Preecha Jiangjuntr 081-4338599 samutsongkham – ID Line 0814338599

TOYOTA

TOYOTA

Engine Diagnosis

ลัดวงจรDiagnosis Plugขั้วTE1 – E1

Basic codes by flashing "Check Engine-light" ("MIL")

1 Normal Condition
2 Air Flow Meter signal
MANIFOLD AND/OR AIRFLOW METER SENSOR circuit
- AIRFLOW METER/circuit
- MANIFOLD PRESSURE SENSOR/circuit

3 Ignition signal
-NO "IGF" SIGNAL to ECM
-IGNITER/IGNITER CIRCUIT
-IGNITER AND IGNITION COIL/circuit

4 Engine Coolant Temperature Sensor signal
- OPEN or SHORT IN WATER TEMP. SENSOR
- WATER TEMPERATURE SENSOR circuit
- WATER TEMPERATURE SENSOR

5 Oxygen Sensor OXYGEN SENSOR SIGNAL/OXYGEN SENSOR HEATER Signal
OPEN OR SHORT IN OXYGEN SENSOR OR OXYGEN SENSOR Signal

6 RPM signal (Crank Angle Pulse) RPM Signal
- NO SIGNAL to ECU FROM DISTRIBUTOR ("Ne" or "G") AFTER ENGINE HAS BEEN CRANKED
- DISTRIBUTOR/circuit
- STARTERSIGNAL circuit
- IGNITER/IGNITER circuit

7 Throttle Position Sensor Signal
- OPEN or SHORT Signal
- TPS SENSOR
- TPS Signal/circuit

8 Intake Air Temperature Sensor Signal
- Open or short INTAKE AIR TEMP. SIGNAL
- INTAKE AIR TEMPERATURE circuit
- INTAKE AIR TEMPERATURE SENSOR

9 Vehicle Speed Sensor Signal
-NO SPD. SIGNAL FOR SEVERLA SECONDS WHILE VEHICLE IS OPERATED UNDER HEAVY LOAD TPS/MAP/AIR FLOW INPUTS)
- SPEED SENSOR/circuit

10 Starter signal

11 Switch signal LOSS OF POWER SUPPLY TO ECM
-IGNITION SWITCH/circuit
-MAIN RELAY/circuit
12 Knock Control Sensor signal
STARTER SIGNAL
- NO "STA" SIGNAL TO ECM UNTIL ENGINE SPEED EXCEEDS 800 RPM
- IGNITION SWITCH/circuit

12 RPM signal (G22 for –FSE)
- NO SIGNAL TO ECM FROM DISTRIBUTOR ("Ne" OR "G") AFTER ENGINE HAS BEEN CRANKED
- DISTRIBUTOR/circuit
- STARTERSIGNAL circuit
-IGNITER/IGNITER circuit

12 Crankshaft position (CKP) sensor - circuit malfunction (3C-TE)
13 Knock Control CPU (ECM)
13 RPM signal (NE for –FSE)
SAME AS above but after ENGINE has RUN AT 1,000 - 1,500 RPM
-DISTRIBUTOR/DISTRIBUTOR circuit
13 Fuel injection pump position sensor – circuit malfunction (3C-TE)
14 Turbocharger Pressure
14 Ignition signal
- No "IG" or "IGF" ignition signal to ECM from ignitior several times in succession (IGT1, IGT4, IGF for –FSE)
- NO "IGF" SIGNAL TO ECM
- IGNITER/IGNITER circuit
- IGNITER AND IGNITION COIL/circuit

14 (2C-TE) Timing control system malfunction
15 Ignition System (IGT2, IGT3, IGF for –FSE)
15 (1CD-FTV) Throttle motor - circuit malfunction
15 Throttle control circuit - malfunction
16 Faulity in transmission/transaxle ECM (Transmission control signal)
17 Engine control module (ECM) -malfunction
18 Fuel quantity adjuster -malfunction

19 Acceleration Pedal Position (AAP) Sensor/Switch circuit malfunction (VC, VPA, VPA2, E2 – for FSE, 3C-TE)
21 Oxygen Sensor
OXYGEN SENSOR SIGNAL/OXYGEN SENSOR HEATER SIGNAL
- OPEN or SHORT IN OXYGEN SENSOR OR OXYGEN SENSOR SIGNAL и еще десяток причин...
22 Engine Coolant Temperature Sensor signal
- OPEN OR SHORT IN WATER TEMP. SENSOR SIGNAL
- WATER TEMPERATURE SENSOR circuit
- WATER TEMPERATURE SENSOR
23 Intake Air Temperature Sensor signal
- OPEN OR SHORT IN INTAKE AIR TEMP. SIGNAL
- INTAKE AIR TEMPERATURE circuit
- INTAKE AIR TEMPERATURE SENSOR
24 Intake Air Temperature Sensor signal
- OPEN OR SHORT IN INTAKE AIR TEMP. SIGNAL
- INTAKE AIR TEMPERATURE circuit
- INTAKE AIR TEMPERATURE SENSOR
25 Air-Fuel Ratio Lean
- LEAN SIGNAL SENT TO ECU FROM O2 SENSOR
- INJECTOR FAULT(S)
- FUEL PRESSURE
- OXYGEN SENSOR
- AIRFLOW METER OR MAP SENSOR
- IGNITION
26 Air-Fuel Ratio Rich
- SAME AS ABOVE
- COLD START INJECTOR
27 Sub Oxygen Sensor signal
- SUB OXYGEN SENSOR/HEATER circuit
28 No. 2 Oxygen Sensor signal
No.2 OXYGEN SENSOR/OXYGEN SENSOR HEATER
- SAME AS CODE 21
29 No. 2 Oxygen Sensor signal
31 Air Flow Meter signal or Vacuum Sensor signal circuit
- AIRFLOW METER/CIRCUIT
- MANIFOLD PRESSURE SENSOR (MAP) circuit
32 Air Flow Meter signal (VANE-TYPE)
- AIRFLOW METER/circuit
32 (Diesel) Malfunction Resistance Signal
32 (2C-TE) Module coding plug - malfunction
32 (1CD-FTV) Injector - malfunction
33 IAC Valve
- OPEN OR SHORT IN IDLE AIR CONTROL VALVE Signal CIRCUIT or IDLE AIR CONTROL VALVE or ECM
33 Intake manifold air control solenoid –malfunction (3C-TE)
34 Turbocharger Pressure signal
- ABNORMAL TURBOCHARGER PRESSURE
- TURBO CHARGER
- AIRFLOW METER/MANIFOLD/TURBOCHARGER PRESSURE Signal
- INTERCOOLER SYSTEM
35 Turbocharger Pressure Sensor
- TURBOCHARGER PRESSURE SENSOR (Gas.)
35 Manifold Absolute Pressure Sensor (Diesel, 3C-TE)
35 HAC Sensor signal
-OPEN CIRCUIT IN HIGH ALTITUDE COMPENSATOR Signal
36 *
36 Sensor Combustion Pressure (Toyota Part No. 89468-20020)...
39 (Avensis) Fuel temperature sensor - circuit
39 VVT-i Valve (p1656,p1345,p1349, OCV for -FSE)
39 Fuel temperature sensor - circuit malfunction (3C-TE)
41 Throttle Position Sensor signal
- OPEN OR SHORT IN TPS Signal
- TPS Sensor
- TPS Signal/circuit
42 Vehicle Speed Sensor signal
- NO SPD Signal for SEVERLA SECONDS WHILE VEHICLE IS OPERATED UNDER HEAVY LOAD

43 Starter signal
- NO "STA" Signal TO ECU until ENGINE SPEED exceeds 800 RPM
- IGNITION SWITCH/circuit

45 EGR System malfunction
- VSV EGR
- Temperature Sensor

47 Sub-Throttle Position Sensor
- Open or short circuit in Sub-Throttle position sensor signal

47 Throttle position (TP) sensor
48 Vacuum Switching Circuit of Air Sw. Valve or Air Pump (EAP) Malfunction
49 for D-4 System SFP (PR, VC, E2 for -FSE)
51 Switch signal
SWITCH Signal IDL (tps) CONTACTS OFF, NEUTRAL START SWITCH OFF, A/C SWITCH "ON" Signal TO ECM WITH DIAGNOSTIC CHECK CONNECTOR SHORTED
- A/C SWITCH/circuit
- A/C AMPLIFIER
- TPS/CIRCUIT
- NEUTRAL START SWITCH/circuit

52 Knock Sensor signal
- OPEN OR SHORT IN KNOCK SENSOR Signal
- KNOCK SENSOR/circuit

53 Knock Control signal in ECM FAULTY or Engine control module (ECM) knock control – defective (P1605)
54 Inter-cooler ECM signal
Intercooler coolant circulation capacity diminished (fail-safe operation: ignition timing program retarded by 2 degr.)
55 Knock Sensor signal
Open or short circuit in knock sensor signal (Chaser TRD with 2JZ-GTE)
56 Cooling Fan Pressure Sw.
58 SCVP, E2, SCV+, SCV (for –FSE)
59 VVT-i Valve - for FSE)
71 EGR System
EGR VALVE MALFUNCTION
- EXHAUST GAS TEMPEATURE BELOW SPEC. FOR EGR CONTROL
- EGR SYSTEM
- EGR GAS TEMPERATURE SENSOR circuit

72 Fuel Cut Solenoid signal
IGF SIGNAL IS DETECTED FOR 4 CONSECUTIVE IGNITIONS
72 A/C System (A/C Relay Open)
78 (Avensis) Fuel circuit - malfunction
78, 79 Fuel Pump Control signal (S+, E1 for FSE) (P1235
- Fuel Pump Control signal, P1200- Fuel Pump Relay/ECU Malfunction ?)
- Open or Short circuit in fuel Pump Control circuit or Fuel Pump Electronic Control Unit (ECU)

79 D-4
81 TCM Communication
- Open in ECT1 circuit between ECM & Transmission Control Module (TCM) for at Least 2 seconds

83 TCM Communication
- Open in ESA1 circuit between ECM & Transmission Control Module (TCM) for 1/2 second after engine idles at least 1/2 second

84 TCM Communication
- Open in ESA2 circuit between ECM & Transmission Control Module (TCM) for 1/2 second after engine idles at least 1/2 second

85 TCM Communication
- Open in ESA3 circuit between ECM & Transmission Control Module (TCM) for 1/2 second after engine idles at least 1/2 second

89 (**P1125, 1126, 1127, 1128**) read a pulse **ETCS-SNOW** (Chaser TRD with 2JZ-GTE)
92 D-4 (p1210)
96 (p1600) Engine control module (ECM) -supply
97 D-4 (p1215) **EDU** Malfunction
97 (Avensis) Injector control module – circuit malfunction
98 D-4
99 (B2799) there is a trouble with immobilizer (for the **OBDII**-equiped Vechicle)

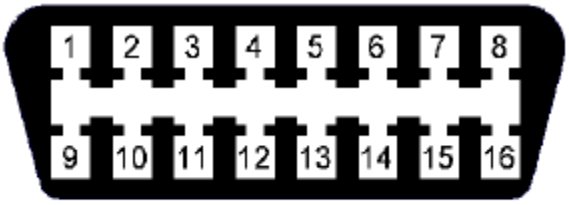
OBD II CODE	
P0100 / 31	VG , EVG (Mass Air Flow Circuit)
P0101	Mass Air Flow Circuit Range/Performance.
P0105	Manifold Absolute Pressure Circuit.
P0106	MAP/BARO Circuit Range/Performance.
P0110 / 24	THA , E2 (Intake Air Temperature Circuit)
P0115 / 22	THW , E2 (Engine Coolant Temperature Circuit)
P0116	Engine Coolant Temperature Range/Performance.
P0120 / 41	VC , VTA , E2 (Throttle Pedal Sensor Switch "A" Circuit)
P0121	Throttle Pedal Sensor Switch "A" Circuit Range/Performance.
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control.
P0130 / 21	OX1A (Heated Oxygen Sensor Circuit - Bank 1 Sensor 1)
P0133	Heated Oxygen Sensor Circuit Slow Response Bank 1 Sensor 1.
P0135 / 21	HT1A (Heated Oxygen Sensor Circuit - Bank 1 Sensor 1)
P0136	Heated Oxygen Sensor Circuit - Bank 1 Sensor 2.
P0141	Heated Oxygen Sensor Circuit - Bank 1 Sensor 2.
P0150	Heated Oxygen Sensor Circuit - Bank 2 Sensor 1.
P0153	Heated Oxygen Sensor Circuit Slow Response Bank 2 Sensor 1.
P0155	Heated Oxygen Sensor Circuit - Bank 2 Sensor 1.
P0156	Heated Oxygen Sensor Circuit - Bank 2 Sensor 2.
P0161	Heated Oxygen Sensor Circuit - Bank 2 Sensor 2.
P0170	Fuel Trim malfunction.
P0171 / 25	OX1A (System too Lean)
P0172 / 26	OX1A (System too Rich)
P0201	Injector Circuit - Cyl. 1.
P0202	Injector Circuit - Cyl. 2.
P0203	Injector Circuit - Cyl. 3.
P0204	Injector Circuit - Cyl. 4.
P0205	Injector Circuit - Cyl. 5.
P0206	Injector Circuit - Cyl. 6.

P0300	**Random Misfire.**
P0301	**Misfire Detected - Cyl. 1.**
P0302	**Misfire Detected - Cyl. 2.**
P0303	**Misfire Detected - Cyl. 3.**
P0304	**Misfire Detected - Cyl. 4.**
P0305	**Misfire Detected - Cyl. 5.**
P0306	**Misfire Detected - Cyl. 6.**
P0325 / 52	**KNK1 (Knock Sensor 1 Circuit)**
P0330	**Knock Sensor 2 Circuit.**
P0335 / 12	**NE+ , NE- (Crankshaft Position Sensor "A" Circuit)**
P0336	**Crankshaft Position Sensor "A" Circuit Range/Performance.**
P0340 / 12	**G2 , NE- (CMP Sensor Circuit malfunction)**
P0385	**Crankshaft Position Sensor "B" NE2 Circuit.**
P0401	**EGR Flow Insufficient.**
P0402	**EGR Flow Excessive.**
P0420	**Catalyst System Efficiency below Threshold.**
P0430	**Catalyst System Efficiency below Threshold Bank 2.**
P0440	**EVAP Control System.**
P0441	**EVAP Control System Improper Purge Flow.**
P0446	**EVAP Control System Vent Control.**
P0450	**EVAP Control System Pressure Sensor.**
P0451	**EVAP Control System Pressure Sensor Range/Performance.**
P0500 / 42	**SPD (Vehicle Speed Sensor)**
P0505 / 33	**RSO (Idle Speed Control System)**
P0510	**Close Throttle Position Switch.**
P0550 / 75	**PSP (Power Steering Pressure Sensor)**
P1100	**BARO Sensor Circuit.**
P1120	**Accelerator Pedal Position Sensor Circuit.**
P1121	**Accelerator Pedal Position Sensor Range/Performance Problem.**
P1125	**Throttle Control Motor Circuit.**

P1126	**Magnetic Clutch Circuit.**
P1127	**ETCS Actuator Power Source Circuit.**
P1128	**Throttle Control Motor Lock.**
P1129	**Electric Throttle Control System.**
P1130	**Air-Fuel Sensor Circuit Range/Performance.**
P1133	**Air-Fuel Sensor Circuit Response.**
P1135	**Air-Fuel Sensor Heater Circuit Response.**
P1150	**A/F Sensor Circuit Range/Performance.**
P1153	**A/F Sensor Circuit Response.**
P1155	**A/F Sensor Heater Circuit.**
P1200	**Fuel Pump Relay Circuit.**
P1300 / 14	**IGT1 (Igniter Circuit - No. 1)**
P1305 / 15	**IGT2 (Igniter Circuit - No. 2)**
P1310 / 14	**IGT3 (Igniter Circuit - No. 3)**
P1315 / 15	**IGT4 (Igniter Circuit - No. 4)**
P1335 / 13	**NE+ , NE- (No Crankshaft Position Sensor Signal - Engine Running)**
P1346 / 18	**OCV+ , OCV- (VVT System)**
P1349 / 59	**OCV+ , OCV- (VVT System)**
P1400	**Sub-Throttle Position Sensor.**
P1401	**Sub-Throttle Position Sensor Range/Performance Problem.**
P1405	**Turbo Pressure Sensor Circuit.**
P1406	**Turbo Pressure Sensor Range/Performance Problem.**
P1410	**EGR Valve Position Sensor Circuit.**
P1411	**EGR Valve Position Sensor Circuit Range/Performance.**
P1500	**Starter Signal Circuit.**
P1510	**Boost Pressure Control Circuit.**
P1511	**Boost Pressure Low.**
P1512	**Boost Pressure High.**
P1520	**Stop Lamp Switch Signal.**
P1565	**Cruise Control Main Switch Circuit.**

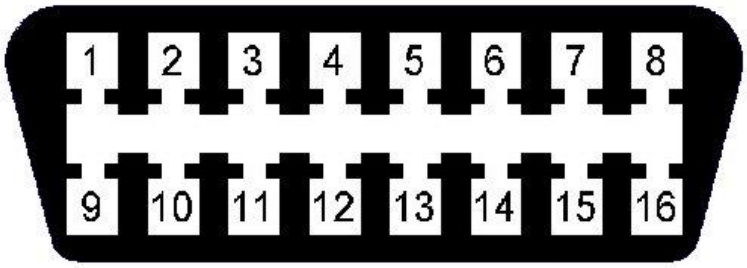
P1600	**ECM.**
P1605	**Knock Control CPU.**
P1630	**Traction Control System.**
P1633	**ECM.**
P1652	**Idle Air Control Valve Control Circuit.**
P1656 / 39	**OCV+ , OCV- (OCV Circuit)**
P1658	**Wastegate Valve Control Circuit.**
P1661	**EGR Circuit.**
P1662	**EGR by-pass Valve Control Circuit.**
P1780	**Park/Neutral Switch.**

OBD2 Standard



Pin Assignments:

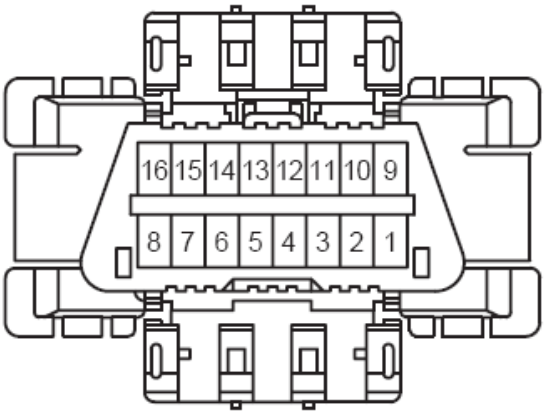
1. -
2. J1850+
3. -
4. Chassis Ground
5. Signal Ground
6. CAN (J2284) High
7. ISO 9141 K line
8. -
9. -
10. J1850-
11. -
12. -
13. -
14. CAN (J2284) Low
15. ISO 9141 L line
16. Battery Power



Pin 2 - J1850 Bus+
Pin 4 - Chassis Ground
Pin 5 - Signal Ground
Pin 6 - CAN High (J-2284)
Pin 7 - ISO 9141-2 K Line
Pin 10 - J1850 Bus
Pin 14 - CAN Low (J-2284)
Pin 15 - ISO 9141-2 L Line
Pin 16 - Battery Power

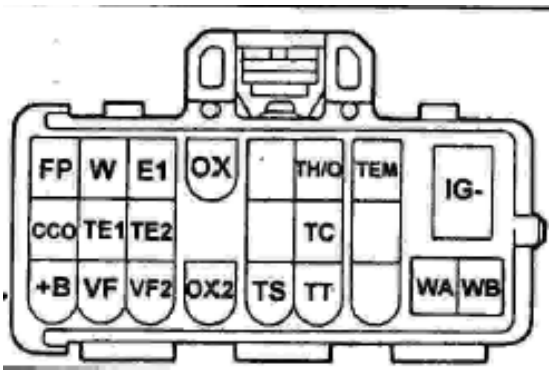
J1850 VPW--The connector should have metallic contacts in pins **2, 4, 5,** and **16,** but **not 10.**
ISO 9141-2--The connector should have metallic contacts in pins **4, 5, 7, 15,** and **16.**
J1850 PWM--The connector should have metallic contacts in pins **2, 4, 5, 10,** and **16.**

D15



BATT	WFSE	CAN L	TC	TS	A/B	-	TACH
LVL	SIL	CAN H	SG	CG	-	-	-

OBD1



A/T Diagnosis

ลัดวงขั้วTT-E1นับหลอดไฟO/D

38	-	A/T Temp Sen
42	-	SP1
46	-	S4
61	-	SP2
62	-	S1
63	-	S2
64	-	S3
67	-	Direct Clutch Speed Sen
77	-	S5
89	-	TRAC ECU

วัดVOLT ขั้วTT , DG

เกียร์ 1	-	0
2	-	2
2 L/C	-	3
3	-	4
3 L/C	-	5
O/D	-	6
O/D L/C	-	7

Transmission OBDI Diagnostic Codes

42 - No. 1 speed sensor signal malfunction

46 - Open or short circuit in no. 4 solenoid valve

61 - No. 2 speed sensor signal malfunction

62 - Open or short circuit in no. 1 solenoid valve

63 - Open or short circuit in no. 2 solenoid valve

64 - Open or short circuit in no. 3 solenoid valve

67 - OD direct clutch speed sensor signal malfunction

68 - Short circuit in kick-down switch

Air Bag OBDI Diagnostic Codes

11 - Short in squib circuit or front airbag sensor circuit (to ground)

12 - Short in squib circuit or front airbag sensor circuit (to +B)

13 - Short in squib circuit (between D+ wire harness and D- wire harness)

14 - Open in squib circuit

15 - Open in front airbag sensor sensor circuit

22 - Airbag warning light system

31 - Center airbag sensor assembly malfunction

41 - Malfunction stored in memory

ABS OBDI Diagnostic Codes

11 - Open circuit in ABS solenoid relay circuit

12 - Short circuit in ABS solenoid relay circuit

13 - Open circuit in pump motor relay circuit

14 - Short circuit in pump motor relay circuit

21 - Open or short circuit in 3-position solenoid circuit for front right wheel

22 - Open or short circuit in 3-position solenoid circuit for front left wheel

23 - Open or short circuit in 3-position solenoid circuit for rear right wheel

24 - Open or short circuit in 3-position solenoid circuit for rear left wheel

31 - Front right wheel speed sensor signal malfunction

32 - Front left wheel speed sensor signal malfunction

33 - Rear right wheel speed sensor signal malfunction

34 - Rear left wheel speed sensor signal malfunction

35 - Open circuit in front left or rear right speed sensor circuit

36 - Open circuit in front right or rear left speed sensor circuit

37 - Faulty front speed sensor rotor

41 - Low battery voltage or abnormally high battery voltage

43 - Malfunction in TRAC control system

51 - Pump motor is locked, Open in pump motor ground

DTC		Description
11		ABS Solenoid Relay Circuit
12		ABS Solenoid Relay Circuit
13		ABS Motor Relay Circuit
14		ABS Motor Relay Circuit
22		Right Front ABS Actuator Solenoid Circuit
22		Left Front ABS Actuator Solenoid Circuit
23		Right Rear ABS Actuator Solenoid Circuit
24		Left Rear ABS Actuator Solenoid Circuit
31		Right Front Wheel Speed Sensor Circuit
32		Left Front Wheel Speed Sensor Circuit
33		Right Rear Wheel Speed Sensor Circuit
34		Left Rear Front Wheel Speed Sensor Circuit
41		IG Power Supply Circuit
49		Brakelight Switch Circuit
51		ABS Pump Motor Lock
71	(1)	Right Front Speed Sensor Signal Voltage Low
72	(1)	Left Front Speed Sensor Signal Voltage Low
73	(1)	Right Rear Speed Sensor Signal Voltage Low
74	(1)	Left Rear Speed Sensor Signal Voltage Low
75	(1)	Abnormal Change In Output Signal From Right Front Speed Sensor
76	(1)	Abnormal Change In Output Signal From Left Front Speed Sensor
77	(1)	Abnormal Change In Output Signal From Right Rear Speed Sensor
78	(1)	Abnormal Change In Output Signal From Left Rear Speed Sensor

71 ..... Right Front Speed Sensor Signal Voltage Low ..... Defective Right Front Speed Sensor, Incorrect Sensor Installation Or Defective Sensor Rotor

72 ..... Left Front Speed Sensor Signal Voltage Low ..... Defective Left Front Speed Sensor, Incorrect Sensor Installation Or Defective Sensor Rotor

73 ..... Right Rear Speed Sensor Signal Voltage Low ..... Defective Right Rear Speed Sensor, Incorrect Sensor Installation Or Defective Sensor Rotor

74 ..... Left Rear Speed Sensor Signal Voltage Low ..... Defective Left Rear Speed Sensor, Incorrect Sensor Installation Or Defective Sensor Rotor

75 ..... Abnormal Change In Output Signal Voltage From Right Front Speed Sensor ..... Defective Right Front Sensor Rotor

76 ..... Abnormal Change In Output Signal Voltage From Left Front Speed Sensor ..... Defective Left Front Sensor Rotor

77 ..... Abnormal Change In Output Signal Voltage From Right Rear Speed Sensor ..... Defective Right Rear Sensor Rotor

78 ..... Abnormal Change In Output Signal Voltage From Left Rear Speed Sensor ..... Defective Left Rear Sensor Rotor

TRAC OBDI Diagnostic Codes

11 - Open in TRAC brake main relay circuit

12 - Short in TRAC brake main relay circuit

13 - Open in TRAC throttle relay circuit

14 - Short in TRAC throttle relay circuit

15 - Electric supply to TRAC motor for a long time (fluid leakage)

16 - Open circuit in pressure switch circuit

17 - Pressure switch remains OFF

19 - TRAC motor ON and OFF operation is higher than a predetermined number of times (accumulator pressure leakage)

21 - Open or short in master cylinder cut solenoid valve circuit

22 - Open or short in accumulator cut solenoid valve circuit

23 - Open or short in reservoir cut solenoid valve circuit

24 - Open or short in sub-throttle actuator circuit

25 - Step motor does not move to a position decided by ECU

26 - Sub-throttle valve does not move even when the sub-throttle valve is controlled to fully open position by ECU

27 - When power supply to step motor is stopped, sub-throttle valve does not reach its fully-open position

44 - During TRAC control, NE signals are not input to the ECU

45 - When idle switch is ON, main throttle position sensor signal is 1.5V or higher

46 - Main throttle position sensor signal is 4.3V or higher, or main throttle position sensor signal is 0.2V or lower when idle switch is OFF

47 - When idle switch is ON, sub-throttle position sensor signal is 1.45V or higher

48 - Sub-throttle position sensor signal is 4.3V or higher, or sub-throttle position sensor signal is 0.2V or lower when idle switch is OFF

49 - Open or short in engine communication circuit

51 - Problem in engine control system

52 - Brake fluid level warning switch ON

54 - Open in TRAC motor relay circuit

55 - Short in TRAC motor relay circuit

56 - TRAC pump motor lock

Commonrail Code

P0115/34 (05-300)	วงจรโซลินอยด์ควบคุมการอัดอากาศซุปเปอร์ชาร์จเจอร์/เทอร์โบ / ขาด [ระบบเทอร์โบชาร์จเจอร์บกพร่อง]	• ตัวขับมอเตอร์เทอร์โบ • วงจรตัวขับมอเตอร์เทอร์โบขาดหรือลัดวงจร • ชุดประกอบเทอร์โบชาร์จเจอร์ • ECM
P0087/49 (05-304)	แรงดันระบบ/รางน้ำมันเชื้อเพลิง - ต่ำเกินไป [ระบบเซ็นเซอร์แรงดันเชื้อเพลิงบกพร่อง]	• วงจรเซ็นเซอร์แรงดันเชื้อเพลิงขาดหรือลัดวงจร • เซ็นเซอร์แรงดันเชื้อเพลิง • ECM
P0088/78 (05-312)	แรงดันระบบ/รางน้ำมันเชื้อเพลิง - สูงเกินไป [ระบบคอมมอนเรลบกพร่อง]	• ปั๊มจ่ายเชื้อเพลิง (วาล์วควบคุมการดูดเชื้อเพลิง) • ลิ้นจำกัดแรงดัน • วงจรปั๊มจ่ายเชื้อเพลิง (วาล์วควบคุมการดูดเชื้อเพลิง) ลัดวงจร • ECM
P0093/78 (05-318)	ตรวจพบระบบเชื้อเพลิงรั่ว - รั่วมาก [เชื้อเพลิงรั่วในระบบคอมมอนเรล]	• ท่อทางเชื้อเพลิงระหว่างปั๊มจ่ายเชื้อเพลิงกับคอมมอนเรล • ท่อทางเชื้อเพลิงระหว่างคอมมอนเรลกับแต่ละหัวฉีด • ปั๊มจ่ายเชื้อเพลิง • คอมมอนเรล • หัวฉีด • ลิ้นจำกัดแรงดัน • วงจร EDU ขาดหรือลัดวงจร (P0200/97 ปรากฏขึ้นพร้อมกัน) • วงจรหัวฉีดขาดหรือลัดวงจร • EDU (P0200/97 ปรากฏขึ้นพร้อมกัน) • ECM
P0095/23 (05-322)	วงจรเซ็นเซอร์อุณหภูมิอากาศเข้าตัวที่ 2 [เซ็นเซอร์อุณหภูมิอากาศเข้า (ข้อต่อไอดี)]	• วงจรเซ็นเซอร์อุณหภูมิอากาศเทอร์โบดีเซลขาดหรือลัดวงจร • เซ็นเซอร์อุณหภูมิอากาศเทอร์โบดีเซล • ECM
P0097/23 (05-322)	กระแสไฟฟ้าวงจรเซ็นเซอร์อุณหภูมิอากาศเข้าตัวที่ 2 ต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิอากาศเข้าต่ำ (ข้อต่อไอดี)]	• วงจรเซ็นเซอร์อุณหภูมิอากาศเทอร์โบดีเซลขาดหรือลัดวงจร • เซ็นเซอร์อุณหภูมิอากาศเทอร์โบดีเซล • ECM
P0098/23 (05-322)	กระแสไฟฟ้าวงจรเซ็นเซอร์อุณหภูมิอากาศเข้าตัวที่ 2 สูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิอากาศเข้าสูง (ข้อต่อไอดี)]	• วงจรเซ็นเซอร์อุณหภูมิอากาศเทอร์โบดีเซลขาดหรือลัดวงจร • เซ็นเซอร์อุณหภูมิอากาศเทอร์โบดีเซล • ECM
P0100/31 (05-326)	วงจรมาตรวัดปริมาณอากาศ [มาตรวัดปริมาณอากาศ]	• วงจรมาตรวัดปริมาณอากาศขาดหรือลัดวงจร • มาตรวัดปริมาณอากาศ • ECM
P0102/31 (05-326)	วงจรมาตรวัดปริมาณอากาศต่ำ [กระแสไฟฟ้ามาตรวัดปริมาณอากาศต่ำ]	• วงจรมาตรวัดปริมาณอากาศขาดหรือลัดวงจร • มาตรวัดปริมาณอากาศ • ECM
P0103/31 (05-326)	วงจรมาตรวัดปริมาณอากาศสูง [กระแสไฟฟ้ามาตรวัดปริมาณอากาศสูง]	• วงจรมาตรวัดปริมาณอากาศขาดหรือลัดวงจร • มาตรวัดปริมาณอากาศ • ECM
P0105/35 (05-334)	วงจรแรงดันสัมบูรณ์ท่อร่วมไอดี/แรงกดอากาศ [เซ็นเซอร์แรงดันอากาศเข้า]	• วงจรเซ็นเซอร์แรงดันสัมบูรณ์ท่อร่วมขาดหรือลัดวงจร • เซ็นเซอร์แรงดันสัมบูรณ์ท่อร่วม • ชุดประกอบเทอร์โบชาร์จเจอร์ • ชุดวาล์ว EGR • ECM

P0105/35 (05-334)	กระแสไฟฟ้าวงจรแรงดันสัมบูรณ์ท่อร่วมไอดี/แรงกดอากาศต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์แรงดันอากาศเข้าต่ำ]	• วงจรเซ็นเซอร์แรงดันสัมบูรณ์ท่อร่วมขาดหรือลัดวงจร • เซ็นเซอร์แรงดันสัมบูรณ์ท่อร่วม • ชุดประกอบเทอร์โบชาร์จเจอร์ • ชุดวาล์ว EGR • ECM
P0105/35 (05-334)	กระแสไฟฟ้าวงจรแรงดันสัมบูรณ์ท่อร่วมไอดี/แรงกดอากาศสูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์แรงดันอากาศเข้าสูง]	• วงจรเซ็นเซอร์แรงดันสัมบูรณ์ท่อร่วมขาดหรือลัดวงจร • เซ็นเซอร์แรงดันสัมบูรณ์ท่อร่วม • ชุดประกอบเทอร์โบชาร์จเจอร์ • ชุดวาล์ว EGR • ECM
P0110/24 (05-340)	วงจรอุณหภูมิอากาศเข้า [เซ็นเซอร์อุณหภูมิอากาศเข้า]	• วงจรเซ็นเซอร์ IAT ขาดหรือลัดวงจร • เซ็นเซอร์ IAT (ติดตั้งในมาตรวัดปริมาณอากาศ)*1 • เซ็นเซอร์อุณหภูมิอากาศเข้า*5 • ECM
P0112/24 (05-340)	กระแสไฟฟ้าวงจรอุณหภูมิอากาศเข้าต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิอากาศเข้าต่ำ]	• วงจรเซ็นเซอร์ IAT ขาดหรือลัดวงจร • เซ็นเซอร์ IAT (ติดตั้งในมาตรวัดปริมาณอากาศ)*1 • เซ็นเซอร์อุณหภูมิอากาศเข้า*5 • ECM
P0113/24 (05-340)	กระแสไฟฟ้าวงจรอุณหภูมิอากาศเข้าสูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิอากาศเข้าสูง]	• วงจรเซ็นเซอร์ IAT ขาดหรือลัดวงจร • เซ็นเซอร์ IAT (ติดตั้งในมาตรวัดปริมาณอากาศ)*1 • เซ็นเซอร์อุณหภูมิอากาศเข้า*5 • ECM
P0115/22 (05-346)	วงจรอุณหภูมิน้ำหล่อเย็นเครื่องยนต์ [เซ็นเซอร์อุณหภูมิน้ำหล่อเย็นเครื่องยนต์]	• วงจรเซ็นเซอร์ ECT ขาดหรือลัดวงจร • เซ็นเซอร์ ECT • ECM
P0117/22 (05-346)	กระแสไฟฟ้าวงจรอุณหภูมิน้ำหล่อเย็นเครื่องยนต์ต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิน้ำหล่อเย็นเครื่องยนต์ต่ำ]	• วงจรเซ็นเซอร์ ECT ขาดหรือลัดวงจร • เซ็นเซอร์ ECT • ECM
P0118/22 (05-346)	กระแสไฟฟ้าวงจรอุณหภูมิน้ำหล่อเย็นเครื่องยนต์สูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิน้ำหล่อเย็นเครื่องยนต์สูง]	• วงจรเซ็นเซอร์ ECT ขาดหรือลัดวงจร • เซ็นเซอร์ ECT • ECM
P0120/41 (05-352)	วงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “A” บกพร่อง [เซ็นเซอร์ตำแหน่งลิ้นเร่ง]	• วงจรเซ็นเซอร์ตำแหน่งลิ้นเร่งขาดหรือลัดวงจร • เซ็นเซอร์ตำแหน่งลิ้นเร่ง • ECM
P0122/41 (05-352)	กระแสไฟฟ้าวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “A” ต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์ตำแหน่งลิ้นเร่งต่ำ]	• เซ็นเซอร์ตำแหน่งลิ้นเร่ง • วงจร VLU ขาดหรือลัดวงจร • วงจร VC ขาด • ECM
P0123/41 (05-352)	กระแสไฟฟ้าวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “A” สูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์ตำแหน่งลิ้นเร่งสูง]	• เซ็นเซอร์ตำแหน่งลิ้นเร่ง • วงจร E2 ขาด • วงจร VC และวงจร VTA ลัดวงจร • ECM
P0168/39	อุณหภูมิเชื้อเพลิงสูงเกินไป	เซ็นเซอร์อุณหภูมิเชื้อเพลิง

P0183/39 (05-358)	กระแสไฟฟ้าวงจรเซ็นเซอร์อุณหภูมิเชื้อเพลิง “A” สูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิเชื้อเพลิงสูง]	• วงจรเซ็นเซอร์อุณหภูมิเชื้อเพลิงขาดหรือลัดวงจร • เซ็นเซอร์อุณหภูมิเชื้อเพลิง • ECM
P0190/49 (05-304)	วงจรเซ็นเซอร์แรงดันรางน้ำมันเชื้อเพลิง [เซ็นเซอร์แรงดันเชื้อเพลิง]	• วงจรเซ็นเซอร์แรงดันเชื้อเพลิงขาดหรือลัดวงจร • เซ็นเซอร์แรงดันเชื้อเพลิง • ECM
P0192/49 (05-304)	กระแสไฟฟ้าวงจรเซ็นเซอร์แรงดันรางน้ำมันเชื้อเพลิงต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์แรงดันเชื้อเพลิงต่ำ]	• วงจรเซ็นเซอร์แรงดันเชื้อเพลิงขาดหรือลัดวงจร • เซ็นเซอร์แรงดันเชื้อเพลิง • ECM
P0193/49 (05-304)	กระแสไฟฟ้าวงจรเซ็นเซอร์แรงดันรางน้ำมันเชื้อเพลิงสูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์แรงดันเชื้อเพลิงสูง]	• วงจรเซ็นเซอร์แรงดันเชื้อเพลิงขาดหรือลัดวงจร • เซ็นเซอร์แรงดันเชื้อเพลิง • ECM
P0200/97 (05-362)	วงจรหัวฉีด/ขาด [ระบบ EDU ของหัวฉีดบกพร่อง]	• วงจร EDU ขาดหรือลัดวงจร • หัวฉีด • EDU • ECM
P0234/34 (05-370)	สภาวะการอัดอากาศซุปเปอร์ชาร์จเจอร์/เทอร์โบมากเกินไป [ระบบเทอร์โบชาร์จเจอร์บกพร่อง]	• ชุดประกอบเทอร์โบชาร์จเจอร์ • ตัวขับมอเตอร์เทอร์โบ • เซ็นเซอร์แรงดันสัมบูรณ์ท่อร่วม • มาตรวัดปริมาณอากาศ • วาล์ว EGR ติด (ปิด) • ระบบไอดีและระบบไอเสียถูกดัดแปลงหรืออุดตัน • ECM
P0299/34 (05-370)	การอัดอากาศซุปเปอร์ชาร์จเจอร์/เทอร์โบต่ำเกินไป [ระบบเทอร์โบชาร์จเจอร์บกพร่อง]	• ชุดประกอบเทอร์โบชาร์จเจอร์ • ตัวขับมอเตอร์เทอร์โบ • เซ็นเซอร์แรงดันสัมบูรณ์ท่อร่วม • มาตรวัดปริมาณอากาศ • วาล์ว EGR ติด (ไม่เปิด) • เซ็นเซอร์แรงดันสัมบูรณ์ท่อร่วมไอดี (ไม่ต่อท่อ) • ระบบไอดีและระบบไอเสียถูกดัดแปลงหรืออุดตัน • ECM
P0335/12 (05-375)	วงจรเซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยง “A” [เซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยง]	• วงจรเซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยงขาดหรือลัดวงจร • เซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยง • แผ่นเซ็นเซอร์ตรวจจับตำแหน่งเพลาข้อเหวี่ยงเบอร์ 1 • ECM
P0339/13 (05-375)	วงจรเซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยง “A” ทำงานเป็นช่วงๆ [ปัญหาเซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยงทำงานเป็นช่วงๆ]	• วงจรเซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยงขาดหรือลัดวงจร • เซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยง • แผ่นเซ็นเซอร์ตรวจจับตำแหน่งเพลาข้อเหวี่ยงเบอร์ 1 • ECM
P0340/12 (05-380)	วงจรเซ็นเซอร์ตำแหน่งเพลาลูกเบี้ยว “A” (หรือเซ็นเซอร์เดี่ยว) [เซ็นเซอร์ตำแหน่งเพลาลูกเบี้ยว]	• วงจรเซ็นเซอร์ตำแหน่งเพลาลูกเบี้ยวขาดหรือลัดวงจร • เซ็นเซอร์ตำแหน่งเพลาลูกเบี้ยว • ปั๊มพูลเลย์เพลาขับ • ECM
P0488/15	สมรรถนะ/ช่วงการควบคุมตำแหน่งลิ้นเร่งของการหมุนเวียนแก๊สไอเสีย	• ลิ้นเร่งติดขัด • ลิ้นเร่งเลื่อนได้ไม่คล่อง • วงจรลิ้นเร่งขาดหรือลัดวงจร

P0504/51 (05-393)	ความสัมพันธ์ของสวิตช์เบรก “A”/ “B” [ไฟเบรก]	• วงจรสัญญาณสวิตช์ไฟเบรกลัดวงจร • สวิตช์ไฟเบรก • ECM
P0606 (05-399)	หน่วยประมวลผล ECM/PCM [ECM]	ECM
P0607/89 (05-399)	ประสิทธิภาพของชุดควบคุม [ECM]	ECM
P0627/78 (05-400)	วงจรควบคุมปั๊มเชื้อเพลิง / ขาด [ระบบคอมมอนเรลบกพร่อง]	• วงจรวาล์วควบคุมการดูดเชื้อเพลิงขาดหรือลัดวงจร • วาล์วควบคุมการดูดเชื้อเพลิง • ECM
P1229/78 (05-312)	ระบบปั๊มเชื้อเพลิง [ระบบคอมมอนเรลบกพร่อง]	• วงจรปั๊มจ่ายเชื้อเพลิง (วาล์วควบคุมการดูดเชื้อเพลิง) ลัดวงจร • ปั๊มจ่ายเชื้อเพลิง (วาล์วควบคุมการดูดเชื้อเพลิง) • ECM
P1251/34 (05-370)	สเต็ปมอเตอร์สำหรับวงจรควบคุมเทอร์โบชาร์จเจอร์ (ทำงานเป็นช่วงๆ) [ระบบเทอร์โบชาร์จเจอร์บกพร่อง]	• ตัวขับมอเตอร์เทอร์โบ • วงจรตัวขับมอเตอร์เทอร์โบขาดหรือลัดวงจร • ชุดประกอบเทอร์โบชาร์จเจอร์ • เซ็นเซอร์แรงดันสัมบูรณ์ท่อร่วม • มาตรวัดปริมาณอากาศ • ชุดวาล์ว EGR • ระบบไอดีและระบบไอเสียถูกดัดแปลงหรืออุดตัน • ECM
P1601/89 (05-403)	วงจรการปรับแก้หัวฉีด (EEPROM) [ECM]	• รหัสการฉีดชดเชยของหัวฉีด • ECM
P1611/17 (05-399)	สัญญาณพัลส์ [ECM]	ECM
P2008/58 (05-405)	วงจรควบคุมทางเดินอากาศท่อร่วมไอดี / ขาด (Bank 1) [ระบบควบคุมการหมุนเวียนอากาศบกพร่อง]	• VSV วาล์วควบคุมการหมุนเวียนอากาศ • VSV สำหรับวาล์วควบคุมการเวียนอากาศขาดหรือลัดวงจร • ท่อร่วมไอดี (วาล์วควบคุมการเวียนอากาศ) • วาล์ว EGR ติด (ไม่เปิด) • มาตรวัดปริมาณอากาศ • ECM
P2120/19 (05-410)	วงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “D” บกพร่อง [เซ็นเซอร์ตำแหน่งแป้นคันเร่ง (เซ็นเซอร์ตัวที่ 1)]	• เซ็นเซอร์ตำแหน่งแป้นคันเร่ง • แป้นคันเร่ง • ก้านคันเร่ง (แขน) เสียรูป • ECM
P2121/19 (05-418)	สมรรถนะ/ช่วงวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “D” [ค่าเซ็นเซอร์ตำแหน่งแป้นคันเร่ง (เซ็นเซอร์ตัวที่ 1)]	• วงจรเซ็นเซอร์ตำแหน่งแป้นคันเร่ง • เซ็นเซอร์ตำแหน่งแป้นคันเร่ง • ECM
P2122/19 (05-410)	กระแสไฟฟ้าวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “D” ต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์ตำแหน่งแป้นคันเร่งต่ำ (เซ็นเซอร์ตัวที่ 1)]	• เซ็นเซอร์ตำแหน่งแป้นคันเร่ง • วงจร VCPA ขาด • วงจร VPA ขาดหรือลัดวงจรลงกราวด์ • แป้นคันเร่ง • ก้านคันเร่ง (แขน) เสียรูป • ECM

P2125/19 (05-410)	วงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง "E" บกพร่อง [เซ็นเซอร์ตำแหน่งแป้นคันเร่ง (เซ็นเซอร์ตัวที่ 2)]	• เซ็นเซอร์ตำแหน่งแป้นคันเร่ง • แป้นคันเร่ง • ก้านคันเร่ง (แขน) เสียรูป • ECM
P2127/19 (05-410)	กระแสไฟฟ้าวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง "E" ต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์ตำแหน่งแป้นคันเร่งต่ำ (เซ็นเซอร์ตัวที่ 2)]	• เซ็นเซอร์ตำแหน่งแป้นคันเร่ง • วงจร VCP2 ขาด • วงจร VPA2 ขาดหรือลัดวงจรลงกราวด์ • แป้นคันเร่ง • ก้านคันเร่ง (แขน) เสียรูป • ECM
P2128/19 (05-410)	กระแสไฟฟ้าวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง "E" สูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์ตำแหน่งแป้นคันเร่งสูง (เซ็นเซอร์ตัวที่ 2)]	• เซ็นเซอร์ตำแหน่งแป้นคันเร่ง • วงจร EPA2 ขาด • แป้นคันเร่ง • ก้านคันเร่ง (แขน) เสียรูป • ECM
P2138/19 (05-410)	ความสัมพันธ์ของแรงดันไฟฟ้าสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง "D"/ "E" [เซ็นเซอร์ตำแหน่งแป้นคันเร่งบกพร่อง]	• วงจร VPA และ VPA2 ลัดวงจร • เซ็นเซอร์ตำแหน่งแป้นคันเร่ง • แป้นคันเร่ง • ก้านคันเร่ง (แขน) เสียรูป • ECM
P2226/A5*[3] (05-421)	วงจรความกดอากาศ [ECM]	ECM
P2228/A5*[3] (05-421)	กระแสไฟฟ้าวงจรความกดอากาศต่ำกว่าที่กำหนด [ECM]	ECM
P2229/A5*[3] (05-421)	กระแสไฟฟ้าวงจรความกดอากาศสูงกว่าที่กำหนด [ECM]	ECM
U0001/A2*[3] (05-422)	สาย Bus ของระบบการสื่อสารแบบ CAN ความเร็วสูง	• วงจร TCM และ ECM ขาดหรือลัดวงจร • TCM • ECM
B2799/99 (05-1209)	ระบบยับยั้งการทำงานของเครื่องยนต์บกพร่อง	ระบบยับยั้งการทำงานของเครื่องยนต์

VSC Code

DTC chart of VSC

DTC No.	Detection Item	Trouble Area
C0200/31	Right Front Wheel Speed Sensor Signal Malfunction	- Front speed sensor - Front speed sensor circuit - Speed sensor rotor
C0205/32	Left Front Wheel Speed Sensor Signal Malfunction	- Front speed sensor - Front speed sensor circuit - Speed sensor rotor
C0210/33	Right Rear Wheel Speed Sensor Signal Malfunction	- Rear speed sensor - Rear speed sensor circuit - Speed sensor rotor
C0215/34	Left Rear Wheel Speed Sensor Signal Malfunction	- Rear speed sensor - Rear speed sensor circuit - Speed sensor rotor
C0226/21	SFR Solenoid Circuit	- SFRR or SFRH circuit - Skid control ECU with actuator
C0236/22	SFL Solenoid Circuit	- SFLR or SFLH circuit - Skid control ECU with actuator
C0246/23	SRR Solenoid Circuit	- SRRR or SRRH circuit - Skid control ECU with actuator
C0256/24	SRL Solenoid Circuit	- SRRR or SRRH circuit - Skid control ECU with actuator
C0273/13	Open in ABS Motor Relay Circuit	- ABS MTR relay - Skid control relay - ABS MTR relay circuit - ABS No. 2 fuse
C0274/14	Short to B+ in ABS Motor Relay Circuit	- ABS MTR relay - Skid control relay - ABS MTR relay circuit - ABS No. 2 fuse
C0278/11	Open in ABS Solenoid Relay Circuit	- Skid control ECU with actuator
C0279/12	Short to B+ in ABS Solenoid Relay Circuit	- Skid control ECU with actuator
C1201/51	Engine Control System Malfunction	Engine control system
C1203/53	ECM Communication Circuit Malfunction	CAN communication system
C1210/36	Zero Point Calibration of Yaw Rate Sensor Undone	- Yaw rate sensor - Yaw rate sensor circuit - Zero point calibration not done
C1223/43	ABS Control System Malfunction	- Anti-lock brake system
C1224/44	NE Signal Circuit	- NEO circuit - ECM - Skid control ECU with actuator
C1225/25	SMC Solenoid Circuit	- SM1 or SM2 circuit - Skid control ECU with actuator
C1231/31	Steering Angle Sensor Circuit Malfunction	- Steering angle sensor - Steering angle sensor circuit - Power source circuit
C1232/32	Stuck in Deceleration Sensor	- Yaw rate sensor - Yaw rate sensor circuit - Wire harness

DTC No.	Detection Item	Trouble Area
C1234/34	Yaw Rate Sensor Malfunction	- Yaw rate sensor - Yaw rate sensor circuit - Wire harness
C1235/35	Foreign Object is Attached on Tip of Front Speed Sensor RH	- Front speed sensor - Front speed sensor circuit
C1236/36	Foreign Object is Attached on Tip of Front Speed Sensor LH	- Front speed sensor - Front speed sensor circuit
C1238/38	Foreign Object is Attached on Tip of Rear Speed Sensor RH	- Rear speed sensor - Rear speed sensor circuit
C1239/39	Foreign Object is Attached on Tip of Rear Speed Sensor LH	- Rear speed sensor - Rear speed sensor circuit
C1241/41	Low Battery Positive Voltage or Abnormally High Battery Positive Voltage	- Battery - Charging system - Power source circuit
C1243/43	Acceleration Sensor Stuck Malfunction	- Yaw rate sensor - Yaw rate sensor circuit - Wire harness
C1244/44	Open or Short in Deceleration Sensor Circuit	- Yaw rate sensor - Yaw rate sensor circuit - Wire harness
C1245/45	Acceleration Sensor Output Malfunction	- Yaw rate sensor - Yaw rate sensor circuit - Wire harness
C1246/46	Master Cylinder Pressure Sensor Malfunction	- Master cylinder pressure sensor - Master cylinder pressure sensor circuit
C1249/49	Open in Stop Light Switch Circuit	- Stop light switch assembly - Stop light switch circuit
C1251/51	Open in Pump Motor Circuit	- Skid control ECU with actuator - Skid control ECU with actuator circuit
C1336/39	Zero Point Calibration of Acceleration Sensor Undone	- Yaw rate sensor (Deceleration sensor) - Yaw rate sensor circuit (Deceleration sensor) - Zero point calibration not done
C1361/91	Short Circuit in ABS Motor Fail Safe Relay Circuit	- ABS MTR relay - Skid control relay - ABS MTR relay circuit - ABS No. 2 fuse
C1381/97	Yaw Rate and / or Acceleration Sensor Power Supply Voltage Malfunction	- Battery - Power source circuit - Charging system
U0100/65	Lost Communication with ECM / PCM	CAN communication system
U0121/94	CAN Communication Function Fault	CAN communication system
U0123/62	Lost Communication with Yaw Rate Sensor Module	CAN communication system
U0124/95	Lost Communication with Lateral Acceleration Sensor Module	CAN communication system
U0126/63	Lost Communication with Steering Angle Sensor Module	CAN communication system

DTC No.	Detection Item	Trouble Area
C1271/71	Low Output Signal of Front Speed Sensor RH (Test Mode DTC)	- Front speed sensor RH - Sensor installation - Sensor rotor

DTC No.	Detection Item	Trouble Area
C1272/72	Low Output Signal of Front Speed Sensor LH (Test Mode DTC)	- Front speed sensor LH - Sensor installation - Sensor rotor
C1273/73	Low Output Signal of Rear Speed Sensor RH (Test Mode DTC)	- Rear speed sensor RH - Sensor installation - Sensor rotor
C1274/74	Low Output Signal of Rear Speed Sensor LH (Test Mode DTC)	- Rear speed sensor LH - Sensor installation - Sensor rotor
C1275/75	Abnormal Change in Output Signal of Front Speed Sensor RH (Test Mode DTC)	- Front speed sensor rotor RH
C1276/76	Abnormal Change in Output Signal of Front Speed Sensor LH (Test Mode DTC)	- Front speed sensor rotor LH
C1277/77	Abnormal Change in Output Signal of Rear Speed Sensor RH (Test Mode DTC)	- Rear speed sensor rotor RH
C1278/78	Abnormal Change in Output Signal of Rear Speed Sensor LH (Test Mode DTC)	- Rear speed sensor rotor LH
C1279/79	Acceleration Sensor Output Voltage Malfunction (Test Mode DTC)	- Deceleration sensor - Sensor installation
C1281/81	Master Cylinder Pressure Sensor Output Malfunction (Test Mode DTC)	- Master cylinder pressure sensor

Toyota Engine

Engine:	1JZ-GE	2JZ-GE	2JZ-GE	2JZ-GTE
	DOHC 24 Belt Drive Fuel Injection Does not suit turbocharged models.	DOHC 24 Belt Drive Fuel Injection	DOHC 24 Belt Drive Fuel Injection	DOHC 24 Belt Drive Turbocharged
Year:	1990-1993	1991-1997	1996-2002	1991-2002
cc:	**2491**	**2997**	**2997**	**2997**
Cyl, Bore & Stroke:	L6 - 86x71.5	L6 - 86x86	L6 - 86x86	L6 - 86x86
	Torque One Multi-layer Steel	**Torque One** Multi-layer Steel	**Torque One** Multi-layer Steel	**Torque One** Multi-layer Steel
Vehicles:	Aristo JZS130 Chaser JZX81 Cresta JZX81 Crown JZS130 Crown JZS141 Mark II JZX81 Mark II JZX90	Aristo JZS147 Crown JZS133 Crown JZS135 Crown JZS143 Crown JZS145 Crown JZS149	Chaser JZX91 Cresta JZX91 Mark II JZX91 Soarer JZZ31 Supra JZA80	Aristo JZS147 Aristo JZS161 Supra JZA80

Engine:	13T	13T	1UZ-FE	2UZ-FE	1VZ-FE
	OHV 8 Carburettor	OHV 8 Carburettor	DOHC 32 Belt Drive Fuel Injection	DOHC 32 Belt Drive Fuel Injection	DOHC 24 Belt Drive Fuel Injection
Year:	1979/08-1980/08	1981-1984/07	1990-1997	1998-	1991-1992/06
cc:	**1770**	**1770**	**3968**	**4664**	**1992**
Cyl, Bore & Stroke:	L4 - 85x78	L4 - 85x78	V8 - 87.5x82.5	V8 - 94x84	V6 - 78x69.5
	Torque One Graphite	**Torque One** Graphite	**Torque One** Graphite	**Torque One** Multi-layer Steel	**Torque One** Graphite
Vehicles:	Corolla TE70 Corolla TE73 Cresta TX50 Townace TR10 Townace TR15	Chaser TX60 Corolla TE70 Corolla TE73 Corolla TE74 Cresta TX50 Mark II TX60	Aristo UZS143 Crown UZS143 Crown UZS145 Soarer UZZ30 Soarer UZZ31	Landcruiser UZJ100	Camry VZV30 Vista VZV30

	Модель	Выпуск
JZX8#	Mark II / Chaser / Cresta	1990-1992
JZX9#	Mark II / Chaser / Cresta	1992-1996
JZX10#	Mark II / Chaser / Cresta	1996-2001
JZX11#	Mark II / Verossa	2000-2004
JCE1#	Altezza Gita / Lexus IS	2001-2005
JZA8#	Supra	1993-2002
JZZ3#	Soarer	1991-2000
JCG1#	Progres / Brevis	1998-2006
JZS13#	Crown	1991-1999
JZS14#	Crown	1991-1995
JZS15#	Crown	1995-2001
JZS14#	Aristo / Lexus GS	1991-1997
JZS16#	Aristo / Lexus GS	1997-2005

Toyota Engine ECU Numbe

TOYOTA DUET M100A EJ 98y A/T DE E/U 89560-97229 (2ป,3ช)
TOYOTA VITZ SCP10 1SZ 99y A/T FE E/U 89661-52010
TOYOTA VITZ SCP13 2SZ 03y CVT FE E/U 89666-52350 (5 ปลั๊ก,4 ชั้น / คันเร่งไฟฟ้า)
TOYOTA IST NCP60 2NZ 04y A/T FE E/U 89661-52790 (4ป,4ช)
TOYOTA FUN CARGO NCP20 2NZ A/T FE E/U 89661-52360 (26,16,12,22)
TOYOTA VITZ NCP10 2NZ 00y M/T FE E/U 89661-52030 (26,16,12,22)
TOYOTA STARLET EP82 4E M/T FTE E/U 89661-10100 (26,16)
TOYOTA STARLET EP82 4E 92y A/T FE E/U 89661-10120
TOYOTA STARLET EP91 4E 97y A/T FE E/U 89661-10170
TOYOTA STARLET EP91 4E 96y M/T FTE E/U 89661-10200 (26,16,12)
TOYOTA COROLLA EE102V 4E 97y M/T FE E/U 89661-1A820 (26,16) 2 คอยล์
TOYOTA COROLLA EE101 4E 92y A/T FE E/U 89661-1A200
TOYOTA CORSA EL51 4E 98y A/T FE E/U 89661-16590 (26,16) 2 คอยล์
TOYOTA ALLION NZT240 1NZ 03y A/T FE E/U 89661-2G320 (4ป,4ช)
TOYOTA PROBOX NCP58G 1NZ 03y A/T FE E/U 89666-0D130 (4ป,4ช)
TOYOTA SUCCEED NCP51V 1NZ 03y A/T FE E/U 89661-52450 (4ป,4ช)
TOYOTA COROLLA ALLEX NZE121 1NZ 06y A/T FE E/U 89661-12A70 (4 ปลั๊ก,4 ชั้น / คันเร่งไฟฟ้า) A/F 22204-22010
TOYOTA COROLLA NZE121G 1NZ 03y A/T FE E/U 89666-12390 (4ป,4ช)
TOYOTA COROLLA FIELDER NZE121 1NZ 01y A/T FE E/U 89666-12170 (26,16,12,22)
TOYOTA IST NCP61 1NZ 02y A/T FE E/U 89661-52840 (4ป,4ช)
TOYOTA bB NCP31 1NZ 00y A/T FE E/U 89661-52810 (26,16,12,22)
TOYOTA FUN CARGO NCP21 1NZ 03y A/T FE E/U 89666-52030 (4ป,4ช)
TOYOTA FUN CARGO NCP21 1NZ 99y A/T,+/- FE E/U 89661-52400 (4ป,3ช)
TOYOTA PLATZ NCP12 1NZ 99y A/T FE E/U 89661-52610 (26,16,12,22)
TOYOTA PRIUS NHW10 1NZ 97y Hybrid FXE E/U 89661-47010 (4ป,3ช)
TOYOTA RAUM EXZ10 5E 99y A/T FE E/U 89661-46010 (26,16) 2 คอยล์

TOYOTA CORSA EL43 5E 94y A/T FE E/U 89661-16210 (26,16)
TOYOTA COROLLA EE103 5E 01y A/T FE E/U 89666-12330
TOYOTA COROLLA EE104G 5E 99y A/T FE E/U 89661-1E170 (26,16) 2 คอยล์
TOYOTA COROLLA EE103 5E 97y A/T FE E/U 89661-1E170 (26,16) 2 คอยล์
TOYOTA COROLLA EE104G 5E 96y A/T FE E/U 89661-1A270 (26,16)
TOYOTA CALDINA ET196V 5E 96y A/T FE E/U 89661-21140
TOYOTA CALDINA ET196V 5E A/T FE E/U 89661-2B610
TOYOTA COROLLA AE110 5A 99y A/T FE E/U 89661-1E020 (26,16)
TOYOTA COROLLA AE110 5A 96y A/T FE E/U 89661-1A440 (26,16,12)
TOYOTA COROLLA AE100 5A 95y A/T FE E/U 89661-1A130
TOYOTA COROLLA AE100 5A 93y A/T FE E/U 89661-12720 (26,16,12)
TOYOTA COROLLA AE91 5A 89y A/T FE E/U 89661-12450 (26,16)
TOYOTA COROLLA AE91 5A 87y A/T FE E/U 89661-12232 (10,18,14)
TOYOTA CARINA AT212 5A 98y A/T FE E/U 89661-2D810
TOYOTA CARINA AT190 5A 94y A/T FE E/U 89661-2B540 (26,16,22)
TOYOTA CARIB AE111G 4A 97y A/T FE E/U 89661-1A371 (26,16,12)
TOYOTA TRUENO AE111 4A 95y M/T FE E/U 89661-1A360 (26,16,12)
TOYOTA SPACIO AE111N 4A 97y A/T FE E/U 89661-13020 (26,16,12)
TOYOTA LEVIN AE111 4A 97y A/T FE E/U 89661-1E100 (26,16,12)
TOYOTA LEVIN AE111 4A 97y A/T GE (ดำ) E/U 89661-1A490
TOYOTA LEVIN AE111 4A 97y M/T GE (ดำ) E/U 89661-1A470
TOYOTA MARINO AE101 4A 96y A/T FE E/U 89661-1A370 (26,16,12)
TOYOTA MARINO AE101 4A 94y A/T FE E/U 89661-1A140 (26,16,22)
TOYOTA CERES AE101 4A 91y A/T FE E/U 89661-12760 (26,16,22)
TOYOTA MARINO AE101 4A 95y A/T GE (ดำ) E/U 89661-1A480
TOYOTA MARINO AE101 4A M/T,A/T GE (ขาว) E/U 89661-1A190 M/T (26,16,12), 1A180 A/T (26,16,22)
TOYOTA MARINO AE101 4A 91y M/T,A/T GE (ขาว) E/U 89661-12770 M/T (26,16,12), 12780 A/T (26,16,22)
TOYOTA LEVIN AE101 4A 92y M/T GZE E/U 89661-12790 (26,16,22)
TOYOTA LEVIN AE92 4A 89y M/T GE E/U 89661-12570, 12690 (26,16,12)
TOYOTA LEVIN AE92 4A 87y M/T,A/T GE E/U 89661-12180 M/T (10,18,14), 12330 A/T (10,18,14)
TOYOTA LEVIN AE92 4A 89y M/T GZE E/U 89661-12612 (26,16,22)
TOYOTA LEVIN AE92 4A 87y M/T GZE E/U 89661-17180 (10,18,24)
TOYOTA CORONA AT210 4A 97y A/T FE E/U 89661-2D560 (26,16,22) 2 คอยล์
TOYOTA CORONA AT190 4A 92y A/T FE E/U 89661-2B360
TOYOTA CARINA AT190 4A A/T FE E/U 89661-2D230
TOYOTA CORONA AT211 7A 98y A/T FE E/U 89661-21230
TOYOTA CORONA AT211 7A 96y A/T FE E/U 89661-2D580 (26,16,22) 2 คอยล์
TOYOTA CARINA AT211 7A A/T FE E/U 89661-2D800
TOYOTA CARINA AT191 7A 94y A/T FE E/U 89661-2D250 (26,16,22) คอยล์ในจานจ่าย
TOYOTA CARIB AE115G 7A 95y 4W A/T FE E/U 89661-1A330 (26,16,12) คอยล์ในจานจ่าย
TOYOTA TOWNACE KR42V 7K 01y M/T E E/U 89660-27050 (26,16)
TOYOTA TOWNACE KR42V 7K 00y A/T E E/U 89660-28820 (26,16)
TOYOTA TOWNACE KR42 7K 97y A/T CABU EMISSION C/U 89550-28300 (14)
TOYOTA WISH ZNE10G 1ZZ 03y A/T FE E/U 89661-68010 (4ป,4ช)
TOYOTA ALLION ZZT240 1ZZ 02y A/T FE E/U 89661-2G330 (4ป,4ช)
TOYOTA PREMIO ZZT240 1ZZ 02y A/T FE E/U 89661-2G330 (4ป,4ช)
TOYOTA PREMIO ZZT241 1ZZ 02y A/T FE E/U 89661-21400
TOYOTA VISTA ZZV50 1ZZ 01y A/T FE E/U 89661-32010 (4ป,3ช)
TOYOTA RAV 4 ZCA26 1ZZ 00y A/T FE E/U 89661-42160
TOYOTA MR-S ZZW30 1ZZ 99y A/T FE E/U 89661-17590
TOYOTA CAMRY SV40 4S 97y A/T FE E/U 89661-3H030 (26,16,12) 2 คอยล์
TOYOTA MARK 2 SX90 4S 93y A/T FE E/U 89661-22490 (26,16,12)
TOYOTA MARK 2 SX80 4S 90y A/T FE E/U 89661-22340 (26,16,12)
TOYOTA MARK 2 SX80 4S 89y A/T Fi E/U 89661-22241 (10,18,14)
TOYOTA CORONA ST170 4S 87y A/T Fi E/U 89661-20780 (10,18,14)
TOYOTA AVENSIS AZT250 1AZ 04y A/T FSE-D4 E/U 89661-2G360 (5ป,4ช)
TOYOTA VOXY AZR60G 1AZ 01y A/T FSE-D4 E/U 89666-28130 (5ป,3ช)
TOYOTA MR-2 SW20 3S 97y A/T GE-VVTI E/U 89661-17561 (4ป,3ช)
TOYOTA MR-2 SW20 3S 94y A/T GE E/U 89661-17480 (26,16,12,22)
TOYOTA MR-2 SW20 3S 90y A/T GE E/U 89661-17290 (26,16,22)
TOYOTA MR-2 SW20 3S 94y M/T GTE E/U 89661-17460 (26,16,22)
TOYOTA MR-2 SW20 3S 91y M/T GTE E/U 89661-17380 (26,16,22)
TOYOTA MR-2 SW20 3S 90y M/T GTE E/U 89661-17320 (26,16,22)
TOYOTA CORONA ST210 3S 99y A/T FSE-D4 E/U 89661-2G190 (ทรอตเทิ้ลไฟฟ้า)
TOYOTA CORONA ST210 3S 96y A/T FE E/U 89661-2D590 (26,16,22) 2 คอยล์
TOYOTA CORONA ST191G 3S 93y A/T FE E/U 89661-2B521 (26,16,12,22)

TOYOTA CAREN ST206 3S 97y M/T FE E/U 89661-2D640 (26,16,12) 2 คอยล์
TOYOTA CARINA ED ST202 3S 01y A/T FE E/U 89661-2D650 (26,16,22) 2 คอยล์
TOYOTA CELICA ST202 3S 99y M/T GE-VVTI E/U 89661-2G080 (4ป,3ช)
TOYOTA CELICA ST202 3S 95y M/T GE E/U 89661-2D490
TOYOTA CELICA ST202 3S 94y M/T GE E/U 89661-2B831 (26,16,12,22)
TOYOTA CELICA GT4 ST205 3S 94y 4W M/T GTE E/U 89661-2B840,2B841 (26,16,22)
TOYOTA CAREN ST202 3S 94y A/T GE E/U 89661-2B801 (26,16,12,22)
TOYOTA CELICA ST182 3S 91y A/T GE E/U 89661-2B240 (26,16,22)
TOYOTA CARINA ST183 3S 89y A/T GE E/U 89661-20712 (26,16,22)
TOYOTA CELICA GT4 ST185 3S 89y 4W M/T GTE E/U 89661-20751 (26,16,22)
TOYOTA CAMRY SV41 3S 97y A/T FE E/U 89661-32890 (26,16,22) 2 คอยล์
TOYOTA CAMRY SV32 3S 90y A/T FE E/U 89661-32650 (26,16,22)
TOYOTA CALDINA ST191G 3S 97y A/T FE E/U 89661-2D590
TOYOTA CALDINA ST195G 3S 96y 4W A/T GE E/U 89661-21130 (26,16,12,22)
TOYOTA CALDINA ST195G 3S 95y 4W A/T GE E/U 89661-21080 (26,16,12,22)
TOYOTA EXIV ST202 3S 95y A/T FE E/U 89661-2D380
TOYOTA EXIV ST202 3S 95y A/T FE E/U 89661-2B750 (26,16,22)
TOYOTA CALDINA ST210 3S 97y A/T GE-VVTI E/U 89661-21310 (4ป,3ช)
TOYOTA CALDINA ST215 3S 97y 4W A/T GTE E/U 89661-21330 (4ป,3ช)
TOYOTA IPSUM SXM10 3S 99y A/T FE E/U 89661-44100 (26,16,22) 2 คอยล์
TOYOTA GAIA SXM10 3S 98y A/T FE E/U 89661-44100 (26,16,22) 2 คอยล์
TOYOTA IPSUM SXM10 3S 97y A/T FE E/U 89661-44010 (26,16,22)
TOYOTA NADIA SXN10 3S 98y CVT FSE-D4 E/U 89661-44160 (4ป,3ช)
TOYOTA RAV 4 SXA10 3S 97y 4W A/T GE E/U 89661-42290 (26,16,22)
TOYOTA N0AH SR40G 3S 96y A/T FE E/U 89661-28820 (26,16,22)
TOYOTA N0AH SR40G 3S 96y A/T FE E/U 89661-28800 (26,16,12)
TOYOTA ALTEZZA SXE10W 3S 01y A/T GE-VVTI E/U 89661-53160 (5ป,3ช)
TOYOTA ALTEZZA SXE10 3S 00y M/T GE-VVTI E/U 89661-53070 (5ป,3ช)
TOYOTA MARK 2 YX78 3Y 95y A/T E E/U 89661-22540 (26,16)
TOYOTA CROWN YXS11 3Y A/T PE E/U 89661-43010
TOYOTA TOWNACE YR21G 3Y 93y A/T E E/U 89661-28230 (26,16)
TOYOTA TOWNACE YR21G 3Y A/T E E/U 89661-28070 (10,18,14)
TOYOTA ALTEZZA GXE10 1G 02y A/T FE-VVT E/U 89661-53170 (4ป,3ช)
TOYOTA MARK 2 GX110 1G 01y A/T FE-VVT E/U 89661-2A140 (4ป,3ช)
TOYOTA MARK 2 GX100 1G 00y A/T FE-VVT E/U 89661-22850 (4ป,3ช)
TOYOTA MARK 2 GX100 1G 98y M/T FE-VVT E/U 89661-22840 (4ป,3ช)
TOYOTA MARK 2 GX100 1G 96y A/T FE E/U 89661-22820 (26,16,22)
TOYOTA MARK 2 GX80 1G 90y A/T FE E/U 89661-22410 (26,16,22)
TOYOTA MARK 2 GX80 1G 89y A/T GE E/U 89661-22270 (26,16,22)
TOYOTA MARK 2 GX81 1G 89y A/T GZE E/U 89661-22310 (26,16,22)
TOYOTA MARK 2 GX81 1G 89y A/T GTE E/U 89661-22290 (26,16,22)
TOYOTA MARK 2 GX71 1G 85y A/T GE E/U 89661-22220 (10,18,24)
TOYOTA MARK 2 GX71 1G 85y A/T GTE E/U 89661-22160 (10,18,24)
TOYOTA SUPRA GA70 1G 89y A/T GTE E/U 89661-14380 (26,16,22)
TOYOTA SUPRA GA70 1G 86y A/T GTE E/U 89661-14052 (10,18,24)
TOYOTA SAORER GZ20 1G 89y A/T GTE E/U 89661-24141 (26,16,22)
TOYOTA CROWN GS151 1G 99y A/T FE-VVT E/U 89661-3A560 (4ป,3ช)
TOYOTA CROWN GS150 1G 97y A/T FE E/U 89661-3A290 (26,16,22)
TOYOTA CROWN GS130 1G 89y A/T GZE E/U 89661-30330 (26,16,22)
TOYOTA CROWN GS130 1G 87y A/T GZE E/U 89661-30271 (26,16,22)
TOYOTA CROWN GS121 1G 85y A/T GZE E/U 89661-30153 (10,18,24)
TOYOTA MARK2 wagon SXV20W 5S 97y A/T FE E/U 89661-3T250 (26,16,22) 2 คอยล์
TOYOTA SCEPTER SXV15 5S 96y A/T FE E/U 89661-33500 (26,16,12) คอยล์ในจานจ่าย
TOYOTA SCEPTER SXV15 5S 94y A/T FE E/U 89661-33330 (26,16,22) คอยล์แยก
TOYOTA ESTIMA TCR11 2TZ 95y A/T FZE,S/C E/U 89661-28590 (26,16,12,22)
TOYOTA LUCIDA TCR10 2TZ 95y A/T FE E/U 89661-28560 (26,16,22)
TOYOTA LUCIDA TCR10W 2TZ 94y A/T FE E/U 89661-28331 (26,16,22)
TOYOTA HIACE RZH101 2RZ 94y A/T E E/U 89661-26240 (26,16,12)
TOYOTA HIACE RZH101 2RZ 89y A/T E E/U 89661-26120 (26,16,12)
TOYOTA WINDOM MCV21 2MZ 96y A/T FE E/U 89661-3T010 (4ป,4ช)
TOYOTA WINDOM VCV10 4VZ 94y A/T FE E/U 89661-33320 (26,16,12,22)
TOYOTA CAMRY VCV33 4VZ 91y A/T FE E/U 89661-32550 (26,16,12,22)
TOYOTA VEROSSA JZX110 1JZ 01y A/T,+/- T/B,VVTI E/U 89661-2A060
TOYOTA MARK 2 JZX100 1JZ 99y A/T T/B,VVTI E/U 89661-2A050
TOYOTA MARK 2 JZX100 1JZ 97y A/T T/B,VVTI E/U 89661-22800 (4ป,4ช)
TOYOTA MARK 2 JZX100 1JZ 99y 5 A/T GE-VVTI E/U 89661-2A040 (5ป,3ช)
TOYOTA MARK 2 JZX100 1JZ 98y A/T GE-VVTI E/U 89661-22740,22760 (4ป,4ช)

TOYOTA MARK 2 JZX90 1JZ A/T GTE E/U 89661-22610 (4ป,4ช)
TOYOTA MARK 2 JZX90 1JZ 93y A/T GTE E/U 89661-22470 (4ป,4ช)
TOYOTA MARK 2 JZX90 1JZ A/T GE E/U 89661-22640 (26,16,12,22)
TOYOTA MARK 2 JZX90 1JZ 94y A/T GE E/U DENSO No. 9717570-447-6
TOYOTA MARK 2 JZX90 1JZ 93y A/T GE E/U 89661-22530 (ABS & TRC)
TOYOTA MARK 2 JZX90 1JZ 93y A/T GE E/U 89661-22500 (26,16,12,22)
TOYOTA MARK 2 JZX81 1JZ 90y A/T GTE E/U 89661-22400 (26,16,12,22)
TOYOTA MARK 2 JZX81 1JZ 90y A/T GE E/U 89661-22380 (26,16,12,22)
TOYOTA SUPRA JZA70 1JZ 91y A/T GTE E/U 89661-14470 (26,16,12,22)
TOYOTA SOARER JZZ30 1JZ 96y A/T T/B,VVTI E/U 89661-24490 (4ป,4ช)
TOYOTA SOARER JZZ30 1JZ 91y A/T GTE E/U 89661-24280 (4ป,4ช)
TOYOTA PROGRES JCG10 1JZ 01y A/T FSE-D4 E/U 89661-51060 (5ป,4ช)
TOYOTA PROGRES JCG10 1JZ 99y A/T GE-VVTI E/U 89661-51022 (5ป,3ช)
TOYOTA CROWN Estate JZS171W 1JZ 02y 5 A/T GE-VVTI E/U 89661-3A670 (5ป,3ช)
TOYOTA CROWN JZS171 1JZ 01y 5 A/T FSE-D4 E/U 89661-3F250 (5ป,4ช)
TOYOTA CROWN JZS151 1JZ 96y A/T GE E/U 89661-3A060 (26,16,12,22)
TOYOTA CROWN JZS151 1JZ 97y A/T GE-VVTI E/U 89661-3A250,251 (4ป,4ช)
TOYOTA CROWN wagon JZS130G 1JZ 96y A/T GE-VVTI E/U 89661-3A230 (4ป,4ช)
TOYOTA CROWN JZS141 1JZ 93y A/T GE E/U 89661-30830 (26,16,12,22)
TOYOTA CROWN JZS141 1JZ 91y A/T GE E/U 89661-30620 (26,16,12,22)
TOYOTA CROWN JZS131 1JZ 90y A/T GE E/U 89661-30480 (26,16,22,8)
TOYOTA REGIUS RCH41W 3RZ 97y A/T FE E/U 89661-26430 (26,16,12,22)
TOYOTA AVALON MCX10 1MZ 97y A/T FE E/U 89661-07200 (4ป,4ช)
TOYOTA AVALON MCX10 1MZ 95y A/T FE E/U 89661-07040 (4ป,4ช)
TOYOTA WINDOM MCV20 1MZ 96y A/T FE E/U 89661-33890 (4ป,4ช)
TOYOTA HARRIER MCU10W 1MZ 00y A/T FE-VVT E/U 89661-48032 (5ป,3ช)
TOYOTA WINDOM VCV10 3VZ 92y A/T FE E/U 89661-33200
TOYOTA SCEPTER VCV15W 3VZ A/T FE E/U 89661-33200
TOYOTA HILUX SURF VZN130 3VZ 93y 4W A/T FE E/U 89661-35600 (26,16,22)
TOYOTA MARK 2 JZX101 2JZ 01y A/T GE-VVTI E/U 89661-2A030 (ทรอตเทิ้ลไฟฟ้า) 5 ปลั๊ก,3 ชั้น
TOYOTA MARK 2 JZX101 2JZ A/T GE-VVTI E/U 89661-22770 (4ป,4ช)
TOYOTA CRESTA JZX91 2JZ 95y A/T GE E/U 89661-22680 (ABS & TRC)
TOYOTA CRESTA JZX91 2JZ 93y A/T GE E/U 89661-22420 (ABS & TRC)
TOYOTA SUPRA JZA80 2JZ M/T GE E/U 89661-14610
TOYOTA SUPRA JZA80 2JZ A/T GTE E/U 89661-14500
TOYOTA SOARER JZZ31 2JZ 94y A/T GE E/U 89661-24340 (4ป,4ช)
TOYOTA CROWN JZS175 2JZ 00y A/T FSE-D4 E/U 89661-3A620 (imo 5ป,3ช ,26)
TOYOTA CROWN JZS155 2JZ 98y A/T GE-VVTI E/U 89661-3A340 (ทรอตเทิ้ลไฟฟ้า) 5 ปลั๊ก,3 ชั้น
TOYOTA CROWN JZS155 2JZ 97y A/T GE-VVTI E/U 89661-3A330 (ทรอตเทิ้ลไฟฟ้า) 5 ปลั๊ก,3 ชั้น
TOYOTA CROWN JZS155 2JZ 96y A/T GE-VVTI E/U 89661-3A130 (4ป,4ช)
TOYOTA CROWN wagon JZS135 2JZ 95y A/T GE E/U 89661-30780 (4ป,4ช)
TOYOTA CROWN JZS143 2JZ 94y 5 A/T GE E/U 89661-30770 (4ป,4ช) A/T No.A350E
TOYOTA CROWN JZS143 2JZ 95y A/T GE E/U 89661-30760 (4ป,4ช) A/T No.A340E
TOYOTA CROWN JZS133 2JZ 92y A/T GE E/U 89661-30540 (4ป,4ช)
TOYOTA CROWN JZS143 2JZ 92y A/T GE E/U 89661-30530 (4ป,4ช) A/T No.A340E
TOYOTA CROWN JZS143 2JZ 92y 5 A/T GE E/U 89661-30520 (4ป,4ช) A/T No.A350E
TOYOTA ARISTO JZS147 2JZ 94y A/T GE E/U 89661-30750 (ขันน็อต)
TOYOTA ARISTO JZS147 2JZ 93y A/T GTE E/U 89661-30560,30870
TOYOTA ARISTO JZS160 2JZ 01y A/T GE-VVTI E/U 89666-30090 (imo 5ป,3ช ,26)
TOYOTA ARISTO JZS160 2JZ 97y A/T GE-VVTI E/U 89661-3A410
TOYOTA ARISTO JZS161 2JZ 01y A/T T/B,VVTI E/U 89666-30180 (imo 5ป,3ช ,26)
TOYOTA ARISTO JZS161 2JZ 97y A/T T/B,VVTI E/U 89661-3A470 (5ป,3ช)
TOYOTA MAJESTA JZS155 2JZ 97y A/T GE-VVTI E/U 89661-3A350
TOYOTA MAJESTA JZS155 2JZ 96y A/T GE-VVTI E/U 89661-3A110
TOYOTA MAJESTA JZS149 2JZ 95y A/T GE E/U 89661-30750 (ขันน็อต)
TOYOTA MAJESTA JZS149 2JZ 93y A/T GE E/U 89661-30510 (ขันน็อต)
TOYOTA MARK 2 MX81 7M 89y A/T GE E/U 89661-22320 (26,16,22)
TOYOTA SUPRA MA70 7M 89y A/T GTE E/U 89661-14231 (26,16,22)
TOYOTA SOARER MZ20 7M 86y A/T GTE E/U 89661-24110 (10,18,24)
TOYOTA CROWN MS137 7M 89y A/T GE E/U 89661-30450 (26,16,22)
TOYOTA CROWN MS137 7M 87y A/T GE E/U 89661-30301 (26,16,22)
TOYOTA CROWN MS125 6M 85y A/T GE E/U 89661-30170 (10,18,24)
TOYOTA GRAND HIACE VCH16W 5VZ 01y 4W A/T FE E/U 89661-26700 (5ป,3ช)
TOYOTA SAORER UZZ31 1UZ 91y A/T FE E/U 89661-24220,24390 (4ป,4ช)
TOYOTA MAJESTA UZS151 1UZ 99y A/T VVTi E/U 89661-3A300 (5ป,3ช)
TOYOTA MAJESTA UZS151 1UZ 96y A/T FE E/U 89661-3A080 (4ป,4ช)
TOYOTA MAJESTA UZS141 1UZ 91y A/T FE E/U 89661-30500 (ขันน็อต)

TOYOTA MAJESTA UZS141 1UZ 91y A/T FE E/U DENSO No. 9717500-491-2
TOYOTA MAJESTA UZS131 1UZ 89y A/T FE E/U 89661-30430 (26,16,22,8)
TOYOTA CELSIOR UCF20 1UZ 99y A/T VVTi E/U 89661-50521 (imo 5ป,3ช +26)
TOYOTA CELSIOR UCF21 1UZ 96y A/T FE E/U 89661-50380 (4ป,4ช)
TOYOTA CELSIOR UCF21 1UZ 94y A/T FE E/U 89661-50241 (4ป,4ช)
TOYOTA CELSIOR UCF11 1UZ 92y A/T FE E/U 89661-50170 (4ป,4ช)
TOYOTA CELSIOR UCF10 1UZ 89y A/T FE E/U 89661-50102 (26,16,22,26)
TOYOTA HIMEDIC UZH132 1UZ 95y A/T FE E/U 89661-26190 (ขันน๊อต)
TOYOTA CORSA NL50 1N 95y A/T D/S,T/B E/U 89661-16030 (26,16)
TOYOTA PREMIO CT210 2C 96y A/T D/S,T/B E/U 89551-20130 (26,16)
TOYOTA COROLLA CE107V 3C 01y A/T D/S,E E/U 89661-1E230 (26,16,12,22)
TOYOTA COROLLA CE107V 3C 99y M/T D/S,E E/U 89661-1E220 (26,16,12,22 / คันเร่งไฟฟ้า)
TOYOTA EMINA CXR20G 3C 94y 4W A/T D/S,TE E/U 89661-28580 (26,16,22)
TOYOTA EMINA CXR10 3C 94y 2W A/T D/S,TE E/U 89661-28310 (26,16,22)
TOYOTA EMINA CXR20G 3C 94y 4W A/T D/S,TE E/U 89661-28310 (26,16,22)
TOYOTA LUCIDA CXR10 3C 91y 2W A/T D/S,T/B E/U 89551-28070 (26,16,12)
TOYOTA MARK 2 LX100 2L 97y A/T D/S,TE E/U 89661-22700 (26,16,22)
TOYOTA MARK 2 LX90 2L 94y A/T D/S,TE E/U 89551-22570 (26,16,12)
TOYOTA MARK 2 LX90 2L 92y A/T D/S,TE E/U 89551-22440 (26,16,12)
TOYOTA CROWN LS150 2L 97y A/T D/S,TE E/U 89661-3A190 (26,16,22)
TOYOTA CROWN LS140 2L 93y A/T D/S,THE E/U 89661-30651 (26,16,22)
TOYOTA CROWN LS131 2L 89y A/T D/S,THE E/U 89661-30442 (26,16,12)
TOYOTA HILUX SURF LN130 2L 93y 4W A/T D/S,TE E/U 89661-35701 (26,16,12)
TOYOTA LAND CRUISER LJ78 2L 90y 4W A/T D/S,TE E/U 89661-60111 (26,16,12)
TOYOTA HIACE LH110 2L 89y A/T D/S,T/B E/U,T/U 89551-26070 (26,16,12)
TOYOTA HILUX LN147 5L 99y M/T D/S E/U 89661-35080 (26,16)
TOYOTA HILUX SURF KZN180 1KZ-Inter 98y 4W A/T D/S,TE E/U 89661-3D670 (4 ปลั๊กขาว,3 ชั้น / คันเร่งไฟฟ้า)
TOYOTA HILUX SURF KZN180 1KZ 97y 4W A/T D/S,TE E/U 89661-3D240 (26,16,12)
TOYOTA HILUX SURF KZN130 1KZ 93y 4W A/T D/S,TE E/U 89661-3D100 (26,16,12)
TOYOTA LAND CRUISER KZJ78 1KZ 93y 4W A/T D/S,TE E/U 89661-60250 (26,16,12)
TOYOTA GRAND HIACE KCH11 1KZ-Inter 01y 4W A/T D/S,TE E/U 89661-26690 (4 ปลั๊กขาว,3 ชั้น / คันเร่งไฟฟ้า)
TOYOTA HIACE KZH120G 1KZ-Inter 00y A/T D/S,TE E/U 89661-26630 (4 ปลั๊กขาว,3 ชั้น / คันเร่งไฟฟ้า)
TOYOTA HIACE KZH100 1KZ 00y A/T D/S,TE E/U 89661-26630 (4 ปลั๊กขาว,3 ชั้น / คันเร่งไฟฟ้า)
TOYOTA HIACE REGIUS KCH46G 1KZ 97y A/T D/S,TE E/U 89661-26450 (26,16,22)
TOYOTA GRANVIA KCH40 1KZ 97y A/T D/S,TE E/U 89661-26450 (26,16,22)
TOYOTA HIACE KZH106 1KZ 95y 4W A/T D/S,TE E/U 89661-26180
TOYOTA HIACE KZH100 1KZ 94y A/T D/S,TE E/U 89661-26170 (26,16,12)
TOYOTA LAND CRUISER HDJ100 1HD 98y 4W A/T D/S,FTE E/U 89661-60730 (26,16,12,22)

1JZ-GE CHASER JZX100 89541-22180
1JZ-GE CHASER JZX90 A/T 89661-2640
1JZ-GE CRESTA JZX100 89661-22740
1JZ-GE CRESTA JZX100 A/T 89661-22500
1JZ-GE CRESTA JZX100 A/T 89661-22740
1JZ-GE CRESTA JZX100 A/T 8966122740
1JZ-GE CROWN JZS141 A/T 89661-30620
1JZ-GE CROWN JZS141 A/T 89661-30830
1JZ-GE CROWN JZS151 89661-3A210
1JZ-GE CROWN JZS151 A/T 89661-3A210
1JZ-GE CROWN JZS171 A/T 89661-3A670
1JZ-GE MARK II JZX100 89661-22740
1JZ-GE MARK II JZX100 A/T 89661-22740
1JZ-GE MARK II JZX100 A/T 89661-22740
1JZ-GE MARK II JZX100 A/T 89661-2A010
1JZ-GE MARK II JZX90 89661-22520
1JZ-GE PROGRES JCG10 89540-51010
1JZ-GE PROGRES JCG10 A/T 89661-51021
1JZ-GE VVTi CHASER JZX100 89661-22760
1JZ-GE VVTi PROGRES JCG10 A/T 89540-51020
1JZ-GE (TCR) JZX-90 89661-22520
1JZ-GTE A/T 89661-22470

1JZ-GTE CHASER JCZX90 89661-22610
1JZ-GTE CHASER JZX81 A/T 84661-14470
1JZ-GTE MARK II JZX100 89661-22010
1JZ-GTE MARK II JZX100 A/T 89661-22800
1JZ-GTE MARK II JZX90 89661-22610
1JZ-GTE MARK II JZX90 A/T 8966122470
1JZ-GTE SOARER JZZ30 A/T 89540-2430
1JZ-GTE SOARER JZZ30 A/T 89661-24260
1JZ-GTE SOARER JZZ30 A/T 89661-24281
1JZ-GTE SOARER Z30 89661-24280
1JZ-GTE SOARER Z30 A/T 8966124280

1uz Crown Majesta Uzs151 88240-30291
1uz Crown Majesta Uzs151 89230-30181
1uz Crown Majesta Uzs151 89293-30132
1uz Crown Majesta Uzs151 89630-30090
1uz Crown Majesta Uzs151 A/t 89541-30140
1uz-fe Vcf11 A/t 89661-50102
1uz-fe Crown Uzs131 89530-20550
1uz-fe Crown Uzs131 A/t 89661-30430
1uz-fe Crown Uzs131 A/t 89661-30431
1uz-fe Crown Majesta A/t 89631-30080
1uz-fe Crown Majesta Uzs151 A/t 89661-3a240

2jz-ge Jzs-157 A/t 4wd 89661-3a521/175300-2640
2jz-ge Jzs155 M/t 89661-3a170
2jz-ge Jzx91 A/t 89661-22680
2jz-ge Cresta Jzx101 A/t 89661-22770
2jz-ge Crown Jzs143 A/t 89661-30530 / 175700-3445
2jz-ge Crown Jzs145 A/t 89661-30530
2jz-ge Crown Jzs151 M/t 89661-3a170
2jz-ge Crown Jzs155 A/t 89661-3a330
2jz-ge Crown Jzs155 M/t 89661-3a170
2jz-ge Crown Majesta Jzs149 A/t 89661-30510
2jz-ge Mark Ii Jzx91 A/t 89661-22680
2jz-ge Soarer Z31 A/t 89661 24340
2jz-ge Supra Jza80 89541-14040
2jz-ge Vvt-i Jzs155 A/t 89661-3a130
2jz-gte Aristo Jzs147 A/t
2jz-gte Crown Jzs147 A/t 89661 30870
2JZ-GE VVT-i CROWN JZS155 A/T 89661-22770
2JZ-GE VVT-i CROWN JZS155 A/T 89661-3A120
2JZ-GE VVT-i CROWN JZS155 M/T 89661-3A170
2JZ-GE VVT-I JZS155 A/T 89661-3A110 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-I JZS155 A/T 89661-3A120 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-I JZS155 A/T 89661-3A130 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-i JZS155 A/T ETCS-i 89661-3A340 (SPDM IN A BOX FROM SP2) and (Not CAN)
2JZ-GE VVT-i 5A/T ETCS-i 89661-24541 (Not CAN)
2JZ-GE VVT-i A/T ETCS-i 89661-3A530 (Not CAN)
2JZ-GE VVT-i A/T ETCS-i 89661-3A410 (CAN BUS System)
2JZ-GE VVT-i A/T ETCS-i 89661-3A411 (CAN BUS System)

2JZ-GE JZS155 M/T 89661-3A170
2JZ-GE JZX91 A/T 8962JZ-GE JZS-157 A/T 4WD 89661-3A521/175300-2640
2JZ-GE JZS155 M/T 89661-3A170
2JZ-GE JZX91 A/T 89661-22680
2JZ-GE CROWN JZS135 A/T 89661-30780
2JZ-GE CROWN JZS143 89661-30520
2JZ-GE CROWN JZS143 A/T 89661-30530 / 175700-3445
2JZ-GE CROWN JZS145 A/T 89661-30530
2JZ-GE CROWN JZS151 M/T 89661-3A170
2JZ-GE CROWN JZS155
2JZ-GE CROWN JZS155 A/T 89661-3A120
2JZ-GE CROWN JZS155 M/T 89661-3A170

2JZ-GE SUPRA JZA80 89541-14040
2JZ-GE SUPRA JZA80 A/T 89661-14600
2JZ-GE VVT-I JZS155 A/T 89661-3A130
2JZ-GTE 89661-30560/175700-3422
2JZ-GTE ARISTO JZS147 A/T
2JZ-GTE ARISTO JZS147 A/T 89661-30560
2JZ-GE CROWN JZS135 A/T 89661-30780
2JZ-GE CROWN JZS143 89661-30520
2JZ-GE CROWN JZS143 A/T 89661-30530 / 175700-3445
2JZ-GE CROWN JZS145 A/T 89661-30530
2JZ-GE CROWN JZS151 M/T 89661-3A170
2JZ-GE CROWN JZS155
2JZ-GE CROWN JZS155 A/T 89661-3A120
2JZ-GE CROWN JZS155 M/T 89661-3A170
2JZ-GE SUPRA JZA80 89541-14040
2JZ-GE SUPRA JZA80 A/T 89661-14600
2JZ-GE VVT-I JZS155 A/T 89661-3A130
2JZ-GTE 89661-30560/175700-3422
2JZ-GTE ARISTO JZS147 A/T
2JZ-GTE ARISTO JZS147 A/T 89661-30560
89661-3A470- For ARISTO 2jzgte vvti
89661-14820- For Supra jza-80 tt vvti 4 Speed Tiptronic (A340E Series Auto)
89661-14830- For Supra jza-80 tt vvti 6 Speed (V161)

เบอร์ 89661-14600 A/T80 ปลั๊กขัน

89661-30870 2JZ-GTE ปลั๊กขัน

89661-30750 ป้ายสีดำ2JZ-GE ปลั๊กขัน A/T 8 เส้น ไม่มี SP2 ใช้ SPD แทน

89661-30510 ป้ายสีม่วง2JZ-GE ปลั๊กขัน

89661-30590 1UZ-FE ปลั๊กขัน

1JZ-GE

1JZ-GE CHASER JZX100 89541-22380 มีสาย SP2+ , -
1JZ-GE CHASER JZX90 A/T 89661-2640
1JZ-GE CRESTA JZX100 89661-22740
1JZ-GE CRESTA JZX100 A/T89661-22500
1JZ-GE CRESTA JZX100 A/T 89661-22740
1JZ-GE CRESTA JZX100 A/T89661-22740
1JZ-GE CROWN JZS141 A/T 89661-30620
1JZ-GE CROWN JZS141 A/T 89661-30830 กล่อง 2 ชั้นไม่มี SP2+ , - ใช้ไมล์ไฟฟ้าแทน
1JZ-GE CROWN JZS151 89661-3A210
1JZ-GE CROWN JZS151 A/T89661-3A210
1JZ-GE CROWN JZS171 A/T 89661-3A670
1JZ-GE MARK II JZX100 89661-22740
1JZ-GE MARK II JZX100 A/T 89661-22740
1JZ-GE MARK II JZX100 A/T 89661-22740
1JZ-GE MARK II JZX100 A/T 89661-2A010
1JZ-GE MARK II JZX90 89661-22520
1JZ-GE PROGRES JCG10 89540-51010
1JZ-GE PROGRES JCG10 A/T89661-51021
1JZ-GE VVTi CHASER JZX100 89661-22760
1JZ-GE VVTi PROGRESJCG10 A/T 89540-51020
1JZ-GE (TCR) JZX-90 89661-22520
1JZ-GTE A/T89661-22470
1JZ-GTE CHASER JCZX90 89661-22610
1JZ-GTE CHASER JZX81 A/T84661-14470
1JZ-GTE MARK II JZX100 89661-22010
1JZ-GTE MARK II JZX100 A/T89661-22800
1JZ-GTE MARK II JZX90 89661-22610
1JZ-GTE MARK II JZX90 A/T8966122470
1JZ-GTE SOARER JZZ30 A/T 89540-24230

1JZ-GTE SOARER JZZ30 A/T89661-24260
1JZ-GTE SOARER JZZ30 A/T 89661-24281
1JZ-GTE SOARER Z30 89661-24280
1JZ-GTE SOARER Z30 A/T89661-24280

2JZ-GE VVTI

2JZ-GE VVT-i CROWN JZS155 A/T 89661-22770
2JZ-GE VVT-i CROWN JZS155 A/T 89661-3A120
2JZ-GE VVT-i CROWN JZS155 M/T 89661-3A170
2JZ-GE VVT-I JZS155 A/T 89661-3A110 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-I JZS155 A/T 89661-3A120 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-I JZS155 A/T 89661-3A130 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-i JZS155 A/T ETCS-i 89661-3A340 (SPDM IN A BOX FROM SP2) and (Not CAN)
2JZ-GE VVT-i 5A/T ETCS-i 89661-24541 (Not CAN)
2JZ-GE VVT-i A/T ETCS-i 89661-3A530 (Not CAN)
2JZ-GE VVT-i A/T ETCS-i 89661-3A410 (CAN BUS System)
2JZ-GE VVT-i A/T ETCS-i 89661-3A411 (CAN BUS System

1UZ-FE V8

89661-50102 ปี

89661-50170 ปี 93-94

89661-50240 ปี 95

89661-50241 ปี 95 พัดลมอยู่ในกล่อง

89661-50380 ปี 96

89661-30590 ปี ปลั๊กหนา

89661-50460 LS400 - 1997

1998 LX470 89661-60610
‥1999 LX470 89666-60261
‥1999 LX470 89666-60260
‥1999 LX470 89666-60610
‥1998 Land Cruiser 89661-60610
‥1998 Land Cruiser 89661-60611
‥1999 Land Cruiser 89661-60610
‥1999 Land Cruiser 89661-60261
‥2000 Land Cruiser 89666-60170

2001 Highlander 89661-48250
‥2002 Highlander 89661-48360

1998 LS400 89661-50433
‥1998 LS400 89661-50434
‥1999 LS400 89661-50501
‥1999 LS400 89661-50502
‥2000 LS400 89661-50531
‥2002 LS430 89661-50660
‥1999 LS470 89661-60260
‥1998 LX470 89661-60610
‥1999 LX470 89666-60260
‥1999 LX470 89666-60261
‥2000 LX470 89666-60170

··2001 LX740 89666-60360

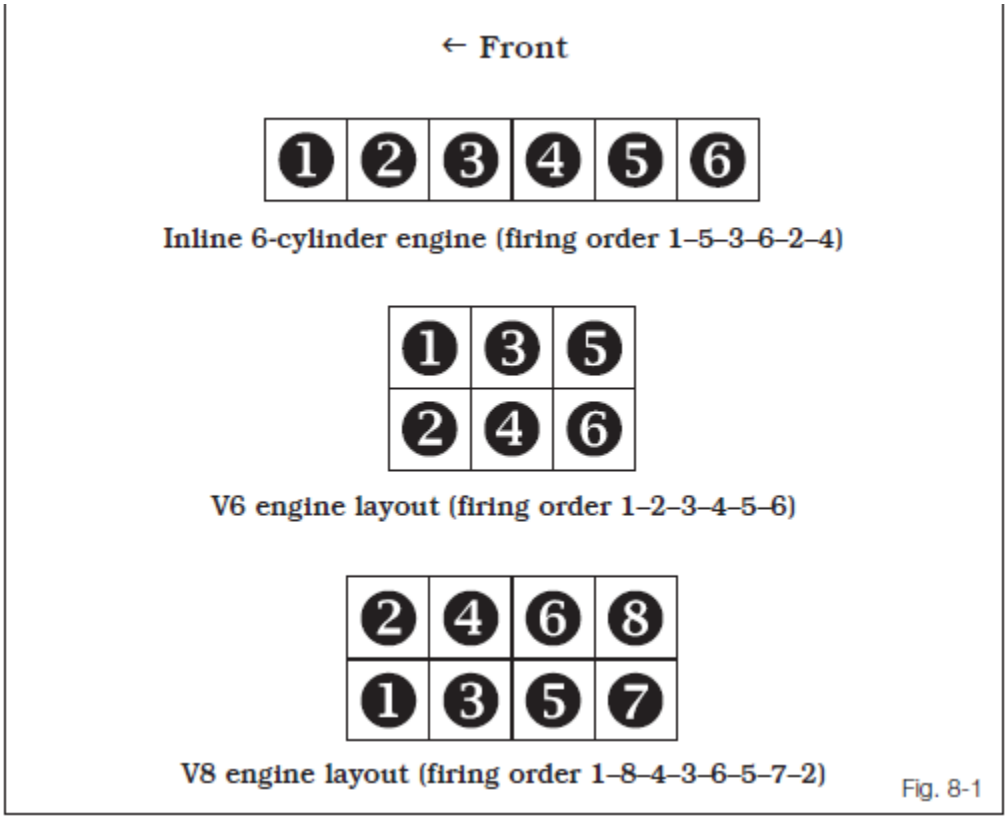
1998 Camry(4 Cyl) 89661-06540
··1998 Camry 89661-06560
··1998 Camry 89661-06613
··1998 Camry 89661-06591
··1998 Camry 89661-3T311
··1998 Camry 89661-3T341
··1999 Camry 89661-06631
··1999 Camry 89661-06710
··1999 Camry 89661-06711
··1999 Camry 89661-07340
··1999 Camry 89661-0W091
··1999 Camry 89661-3T410
··2000 Camry 89661-07260
··2000 Camry 89661-0W110
··2001 Camry 89661-06181
··2001 Camry 89666-06120
··2002 Camry 89666-06220
··1998 Camry XLE 89661-06560
··1998 Camry XLE 89661-06561
··1998 Camry XLE 89661-06580
··1998 Camry XLE 89661-08030
··1999 Camry XLE 89661-06640
··1999 Camry XLE 89661-06641
··1999 Camry XLE 89661-06731
··2000 Camry XLE 89661-0W111
··2002 Camry XLE 89666-06251

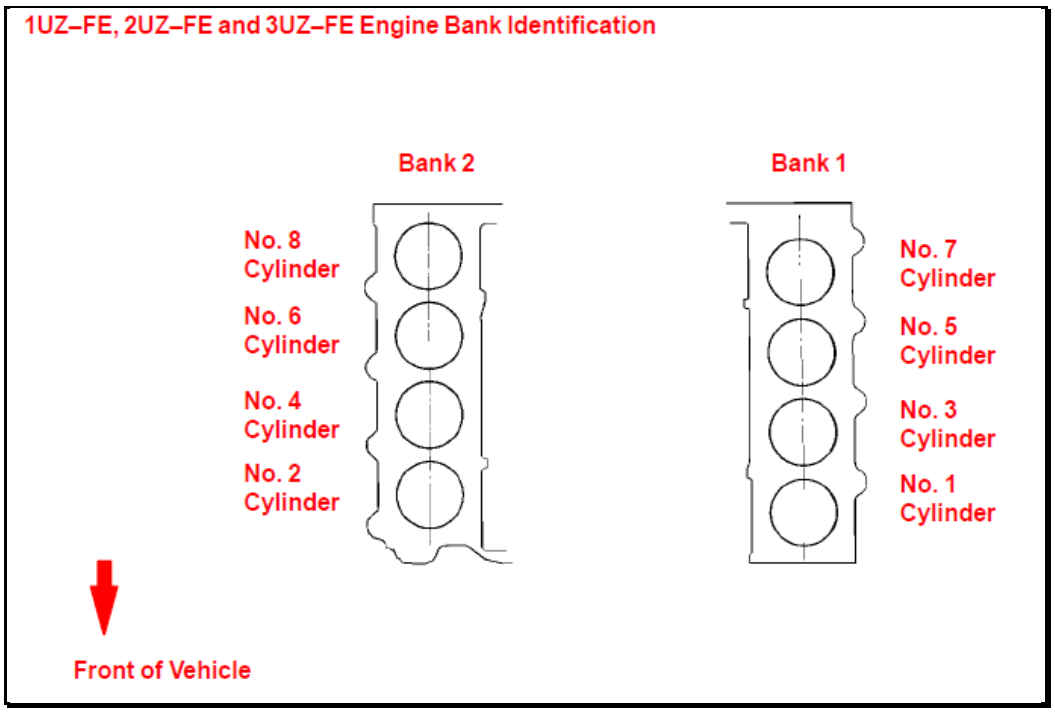
1998 ES300 89661-06613
··1998 ES300 89661-3T310
··1998 ES300 89661-3T311
··1998 ES300 89661-3T320
··1998 ES300 89661-3T321
··1998 ES300 89661-3T341
··1999 ES300 89661-0W102
··1999 ES300 89661-0W103
··1999 ES300 89661-3T420
··1999 ES300 89661-3T421
··1999 ES300 89661-3T422
··1999 ES300 89661-3T423
··2000 ES300 89661-0W120
··2000 ES300 89661-0W121
··2000 ES300 89666-33121
··2001 ES300 89661-0W150
··2001 ES300 89661-0W151

1998 GS300 89661-3A420
1998 GS300 89661-3A422
1998 GS300 89661-3A463
1998 GS300 89661-3A552
1998 GS300 89661-3T310
1998 GS300 89661-3T420
1999 GS300 89661-3A423
1999 GS300 89661-3A463
1999 GS300 89661-3A550
1999 GS300 89661-3A551
1999 GS300 89661-3A552
1999 GS300 89666-30030
2000 GS300 89661-3A421
2000 GS300 89666-30030
2000 GS300 89666-30130
2000 GS300 89666-30131
2000 GS300 89666-30132
1998 GS400 89661-3A422
1998 GS400 89661-3A463
1998 GS400 89661-3A464

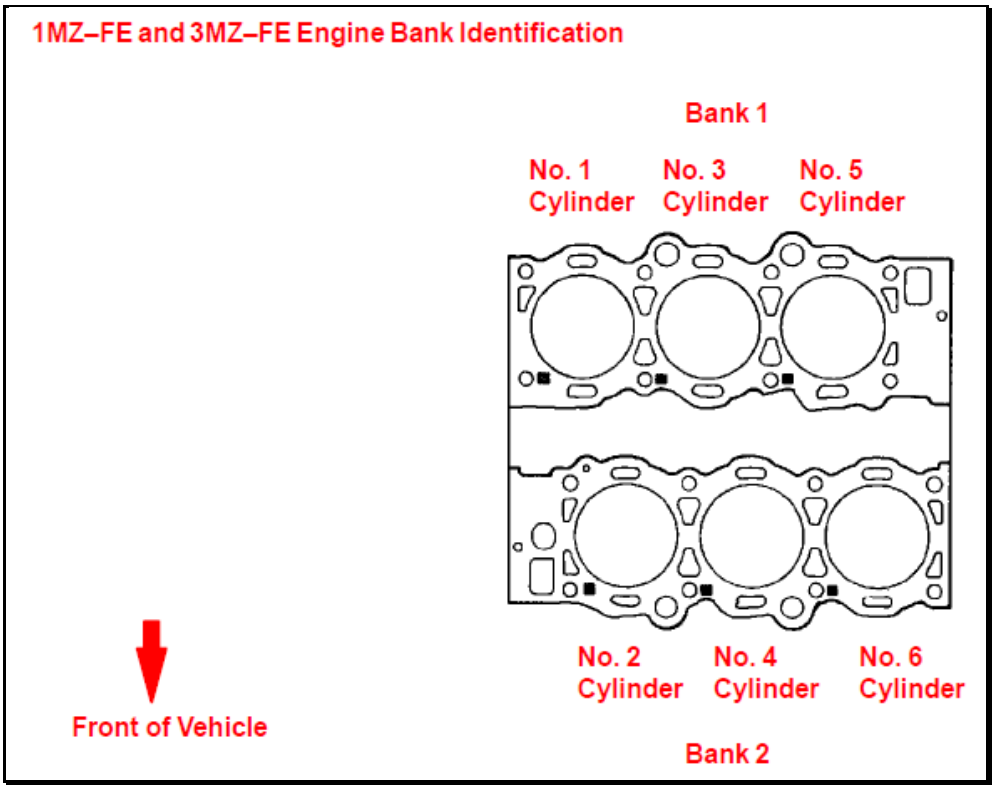
1998 GS400 89662-30010
1999 GS400 89661-3A541
1999 GS400 89661-3A542
1999 GS400 89661-3A543
2000 GS400 89666-30020
2001 GS430 89666-30260
2002 GS430 89666-30260

2001 IS300 89661-53130
2001 IS300 89661-53131
2001 IS300 89661-53132

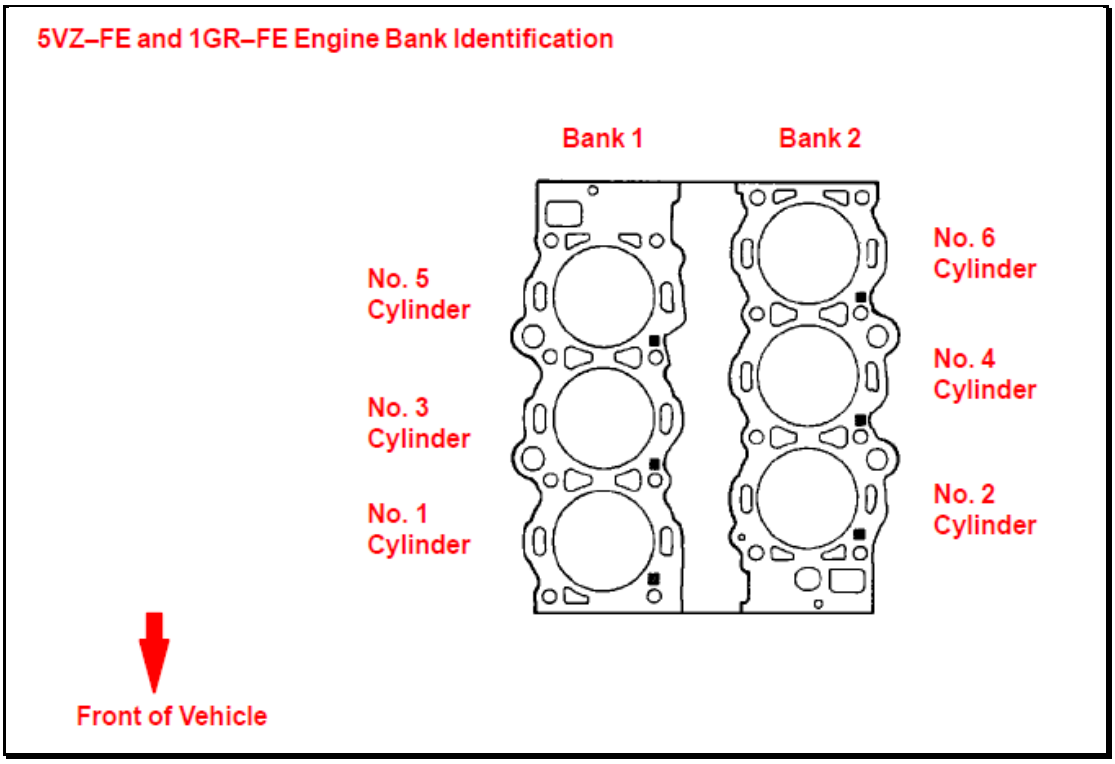

← Front
1 2 3 4 5 6
Inline 6-cylinder engine (firing order 1–5–3–6–2–4)
1 3 5
2 4 6
V6 engine layout (firing order 1–2–3–4–5–6)
2 4 6 8
1 3 5 7
V8 engine layout (firing order 1–8–4–3–6–5–7–2)
Fig. 8-1

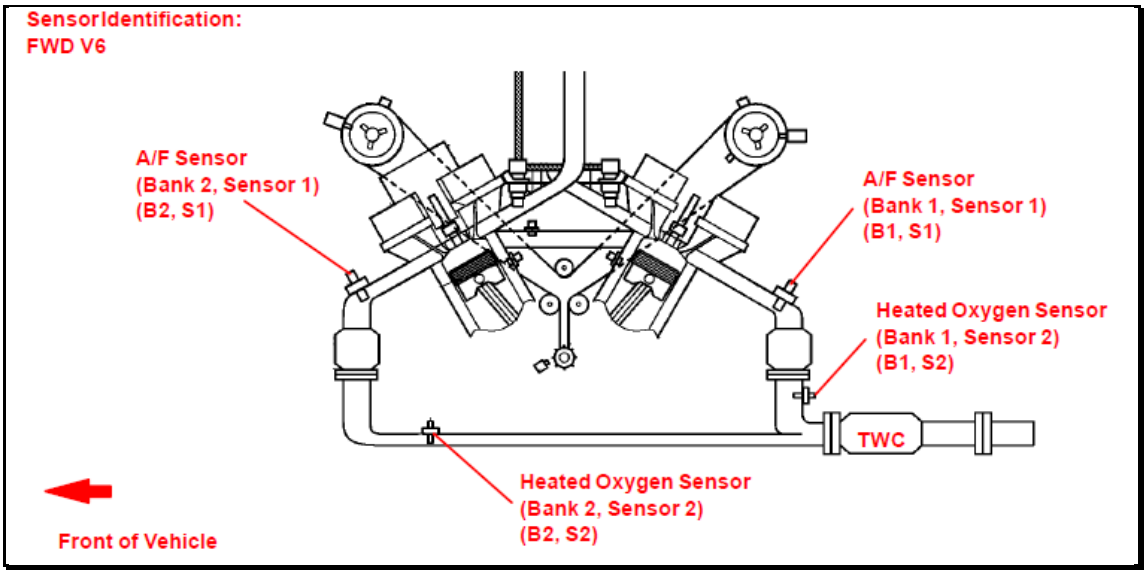

1UZ–FE, 2UZ–FE and 3UZ–FE Engine Bank Identification
Bank 2
Bank 1
No. 8 Cylinder
No. 6 Cylinder
No. 4 Cylinder
No. 2 Cylinder
No. 7 Cylinder
No. 5 Cylinder
No. 3 Cylinder
No. 1 Cylinder
Front of Vehicle

1MZ–FE and 3MZ–FE Engine Bank Identification



5VZ–FE and 1GR–FE Engine Bank Identification





Lexus Engines and Transmissions			
Year	Model	Engine	Auto Transmission
1990	LS 400	1UZ-FE	A341E
	ES 250	2VZ-FE	A540A
1992	SC 300	2JZ-GE	A340E (ECT)(IN-LINE 6)
	SC 400	1UZ-FE	A340E (ECT-i)
	ES 300	3VZ-FE	A540E
1993	GS 300	2JZ-GE	A340E
1995	LS 400	1UZ-FE	A340E
1996	LS 400	1UZ-FE	A340E (ECT-i)
	ES 300	1MZ-FE	A541E
	LX 450	1FZ-FE	A343F
1998	LS 400	1UZ-FE	A650E (5SP)-Super
			A340E (4SP) (ECT-i)
	LX 470	2UZ-FE	A343F
	GS 300	2JZ-GE	A340E
	GS 400	1UZ-FE	A650E (5SP)-Super
	SC 300	2JZ-GE	A340E (ECT)
	SC 400	1UZ-FE	A650E (ECT-i)-Super
1999	LS 400	1UZ-FE	A650E (5SP)-Super
	GS 300	2JZ-GE	A650E (5SP)-Super
	GS 400	1UZ-FE	A650E (5SP)-Super
	RX 300	1MZ-FE	U140E (2WD)
			U140F (4WD)

2001	LS 430	3UZ-FE	A650E (ECT-i)-Super
	GS 300	2JZ-GE	A650E (ECT-i)-Super
	GS 430	3UZ-FE	A650E (ECT-i)-Super
	IS 300	2JZ-GE	A650E (ECT-i)-Super
2002	SC 430	3UZ-FE	A650E (ECT-i)-Super
	ES 300	1MZ-FE	U150E
	IS 300	2JZ-GE	A650E (ECT-i)-Super
2003	GX 470	2UZ-FE	A750F
	LX 470	2UZ-FE	A750F
2004	LS 430	3UZ-FE	A761E (6-SPEED)
	ES 330	3MZ-FE	U151E
	RX 330	3MZ-FE	U151E (2WD)
			UI51F (4WD)
2006	RX 400h	3MZ-FE	P310 TRANSAXLE
	GS 300	3GR-FSE	A960E (2WD)
	GS 300	3GR-FSE	A760H (AWD)
	GS 430	3UZ-FE	A761E (6-SPEED)
2007	ES 350	2GR-FE	U660E
	RX 350	2GR-FE	U151E (2WD)
			U151F (AWD)
	GS 450h	2GR-FSE	Hybrid transmission
	LS 460	1UR-FSE	AA80E (8-SPEED)
	IS 250	4GR-FSE	A960E (2WD), A760H (AWD)
	IS 350	2GR-FSE	A760E

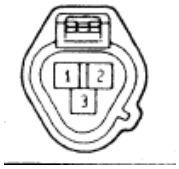
Toyota Plug Connector (หน้าปลั๊ก)

Alternator



L	IG	S

L	IG	M



L (1)	IG (2)	S (3)



S (1)	L (2)	IG (3)

A 8
Black



S	IG
M	L

Injector



#10	IG

Coil



IG	-Coil

Vehicle Speed Sensor



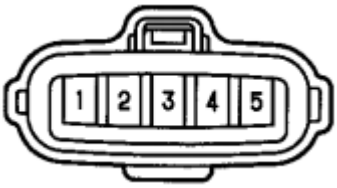
IG	E1	SPD

Fuel Gauge Unit

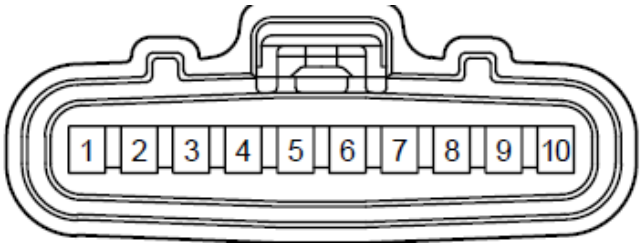


*	Fuel	E2
	FP	E1

Ignitor



IGF	IGT	IG	IG-	- Coil



C1	C2	E1	IGF	IGT3	IGT2	IGT1	IG-	IG	C3

Manifold Pressure Sensor

E2	PIM	VC

Water Temp. Sensor

E2	THW

Air Temp. Sensor

E2	THA

ISC Valve



RSO	+B	RSC

RSO	+B	E2

Idle Speed Control



ISC2	+B	ISC4
ISC1	+B	ISC3

Air Flow Sensor 5 V.



E2	THA	KS	VC	E2

Air Flow Sensor 12 V.



+B	VG	THA	E2	E2

+B	E2G	VG	THA	E2

Dual Coil



IG	IGT	IGF	E1

Direct Coil



IG	IGF	IGT	E1

Oxygen Sensor

D28
Dark Gray



HT1B	**+B**
OX1B	**E2**

A/F Ratio Sensor

D28
Dark Gray

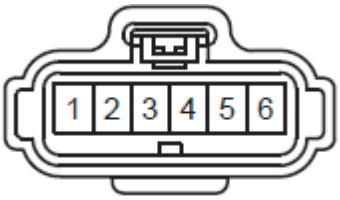


HA1A	**+B**
A1A+	**A1A-**

Throtte Sensor

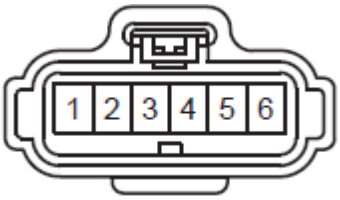
E2	**IDL**	**VTA**	**VC**

Throttle Body Control



M-	M+	E2	VTA2	VC	VTA1

Accelerator Position Sensor

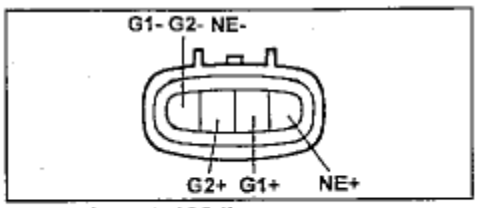


VCP2	EPA2	VPA2	VCP1	EPA1	VPA1

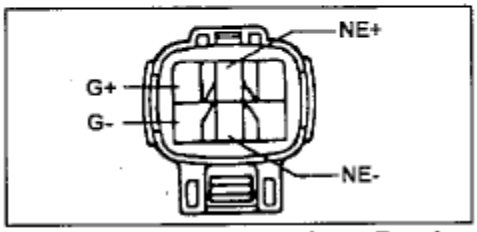


EPA1	VPA2	EPA2
VCP1	VPA1	VCP2

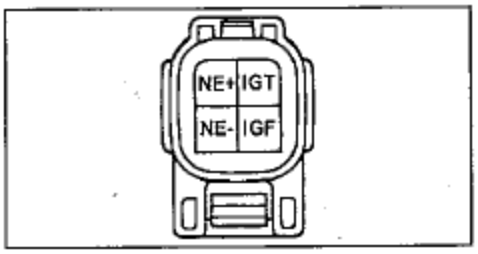
Distributor



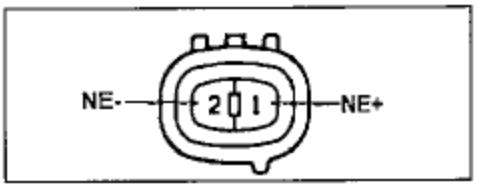
4A-FE (до 08.1994).



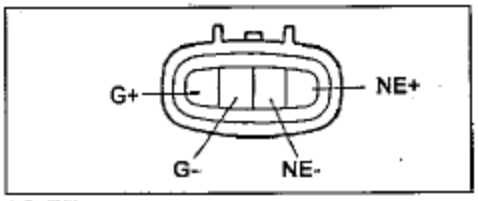
4A-FE (с 08.1994, кроме Lean Burn).



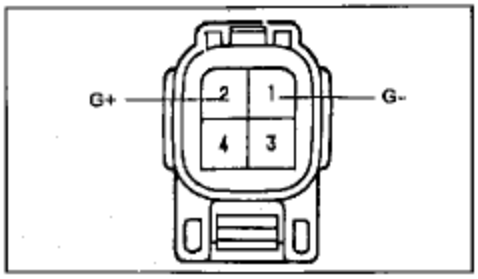
5A-FE.



4S-FE.

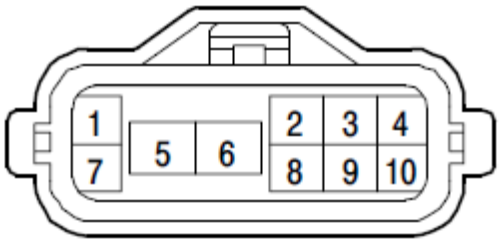


3S-FE.



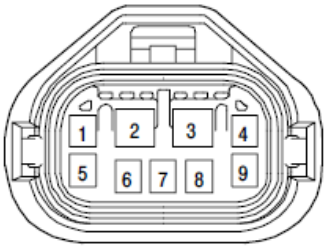
4A-FE (с 08.1994, кроме Lean Burn), 7A-FE.

Inhibitor Sw.



*		2 (LG/R)	L (G/B)	IG (Y)
P (GR)	STA (B) / NSW (B/W)	R (R/B)	D (G/R)	N (L)

Inhibitor Sw.



1 - P (L/R) 2 - NSW (B/W) 3 - STA (B) 4 - L (LG/B) 5 - R (R/B)	6 - IG (R/L) 7 - N (L/W) 8 - D (L/B) 9 - 2 (LG/R)

Inhibitor Sw.



1 - P 2 - R 3 - IG 4 - 2 5 - N	6 - * 7 - D 8 - L 9 - *

A/T Solenoid (3 เส้น)

E 2 BLACK



S1 - 1 (W) , S2 - 2 (B) , S3 -3 (Y)

A/T Solenoid (3 เส้น)



S2	SL	S1

A/T Solenoid (8 เส้น) ปลั๊กหนา

E 2 GRAY



OIL	+B	+B	S1
E2	SLN-	SLU-	S2

A/T Solenoid (8 เส้น) หน้า , ปลั๊กนัตขัน

E 2 GRAY



SLT+ (W/G)	+B (B/R)	+B (B/R)	S1 (W/R)
SLT- (LG/R)	SLN- (Y/G)	SLU- (LG/B)	S2 (R/L)

A/T Solenoid (10 เส้น)

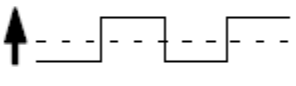
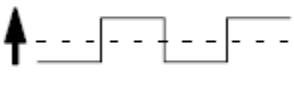


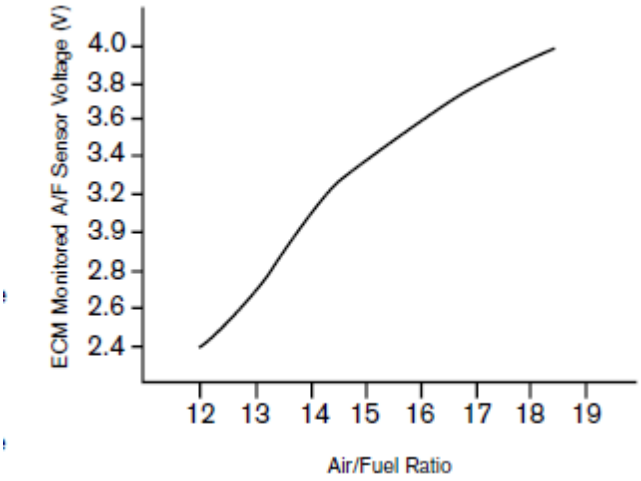
OIL	SLT+	SLN+	SLU+	S1
E2	SLT-	SLN-	SLN-	S2

A/T Solenoid (12 เส้น) 5 Speed

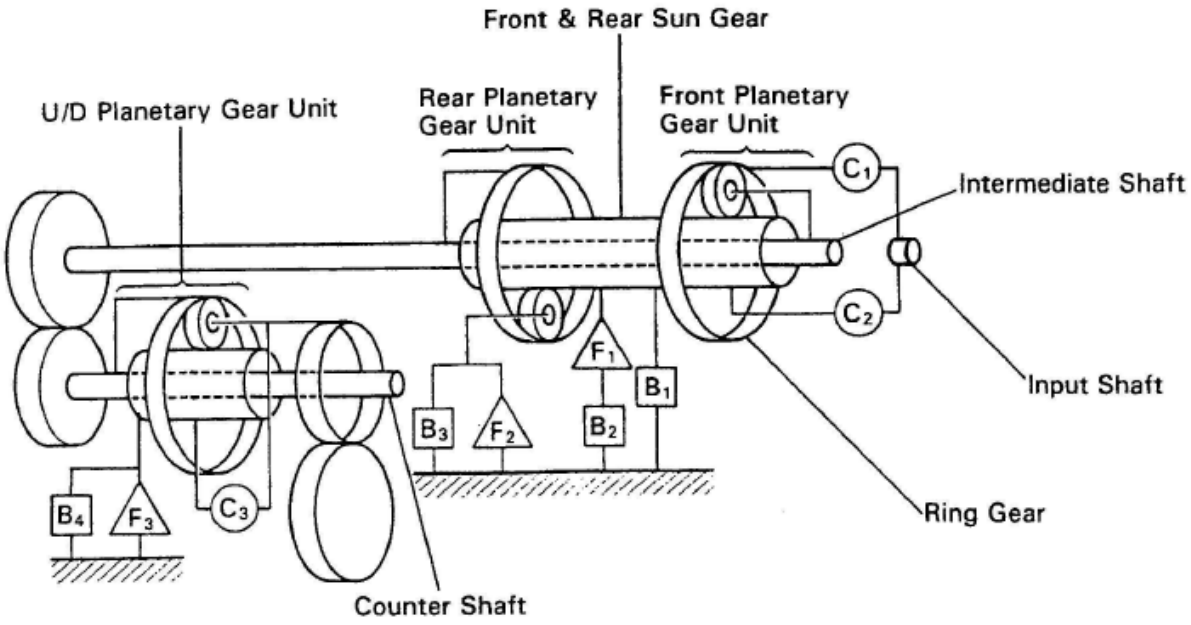


OIL	SLT+	SLN+	SLU+	S3	S1
E2	SLT-	SLN-	SLU-	S4	S2

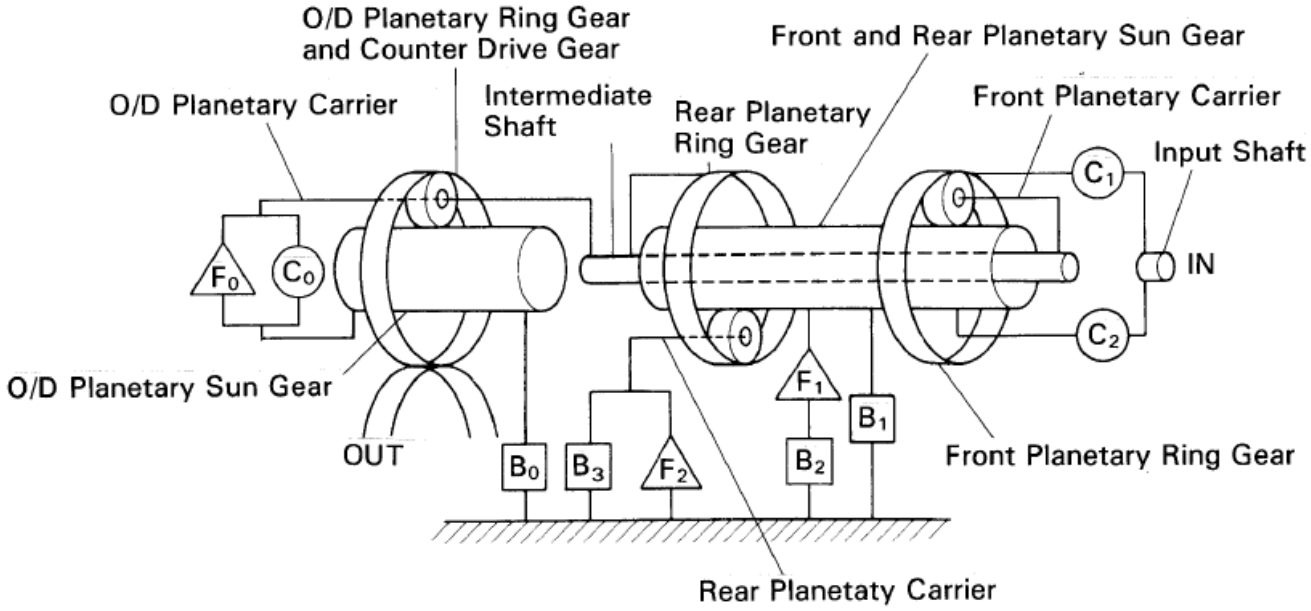
A/F Sensor (Sensor 1) Output Voltage	HO2 Sensor (Sensor 2) Output Voltage
Injection volume +25 % –12.5 %  Output voltage More than 3.35 V Less than 3.0 V  OK	Injection volume +25 % –12.5 %  Output voltage More than 0.55 V Less than 0.4V  OK



A/T FWD – A240E

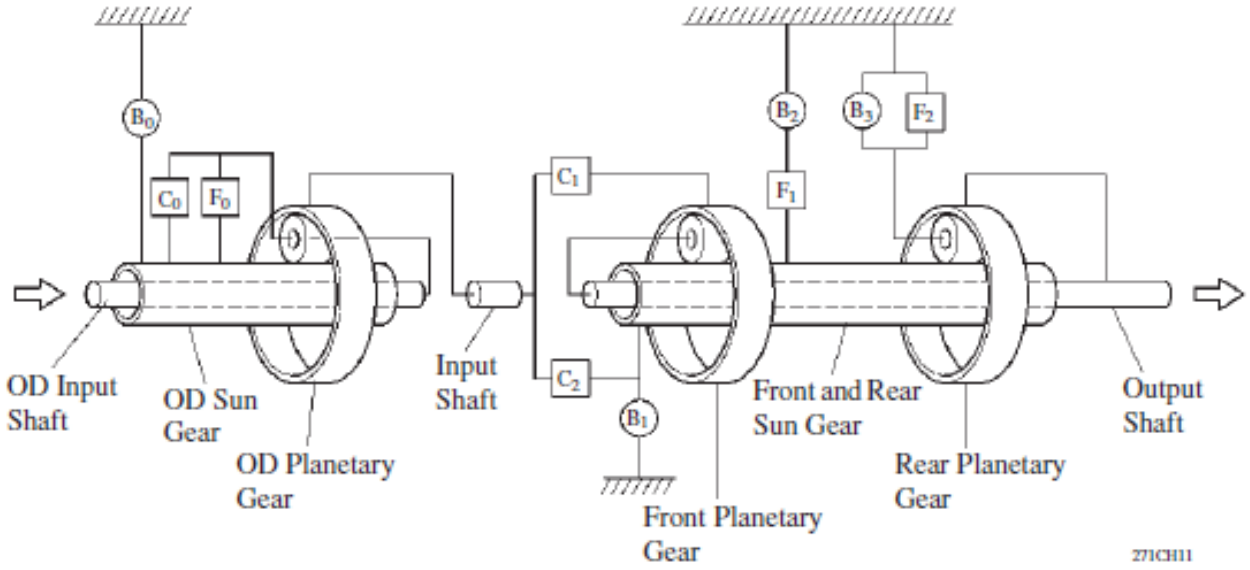


A/T FWD – A140E



Shift lever position	Gear Position	C_0	C_1	C_2	B_0	B_1	B_2	B_3	F_0	F_1	F_2
P	Parking	○									
R	Reverse	○		○				○			
N	Neutral	○									
D	1st	○	○						○		○
	2nd	○	○				○		○	○	
	3rd	○	○	○			○		○		
	O/D		○	○	○		○				
2	1st	○	○						○		○
	2nd	○	○			○	○		○	○	
	*3rd	○	○	○			○		○		
L	1st	○	○					○	○		○
	*2nd	○	○			○	○		○	○	

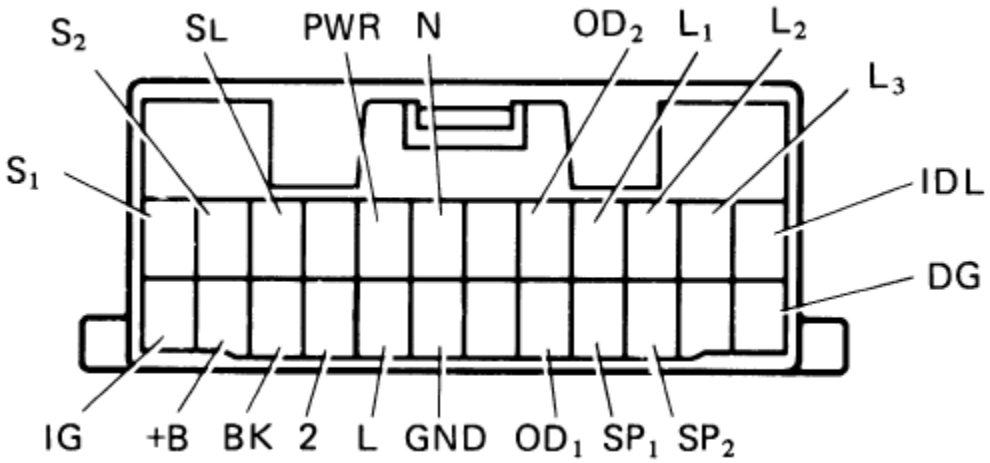
A/T RWD – A340E



Shift Lever Position	Gear	No. 1 Solenoid Valve	No. 2 Solenoid Valve	Clutch			Brake				One-way Clutch		
				C_0	C_1	C_2	B_0	B_1	B_2	B_3	F_0	F_1	F_2
P	Park	ON		○									
R	Reverse	ON		○		○				○	○		
N	Neutral	ON		○									
D	1st	ON		○	○						○		○
	2nd	ON	ON	○	○				○		○	○	
	3rd		ON	○	○	○			○		○		
	4th				○	○	○		○				
2	1st	ON		○	○						○		○
	2nd	ON	ON	○	○			○	○		○	○	
L	1st	ON		○	○					○	○		○

A/T ECU กล่องเกียร์แยก

24 P



ปลั๊กเกียร์ขับหลัง

S1	S2	SL
SP2+	*	SP2-

THROTTLE SEN. .....ขั้วDG (TT-E1) 1-2-3-4-5-6-7-8 V.
SOLENOID 0 V. .... เกียร์1
2 V.....เกียร์2
3 V ..... เกียร์2 / LC
4 V. ... เกียร์3
5 V..... เกียร์3 / LC
6 V..... เกียร์O/D
7 V..... เกียร์O/D / LC

A/T Toyota Solenoid Operation

	SOL. 1	SOL.2
1	ON	OFF
2	ON	ON
3	OFF	ON
4	OFF	OFF

	เกียร์	Co	Fo	C1	C2	Bo	B1	B2	F1	B3	F2
P	PARK	•									
R	Reverse	•			•					•	
N	Neutral	•									
D	1	•	•	•							•
	2	•	•	•				•	•		
	3	•	•	•	•			•			
	OD			•	•	•		•			
2	2	•	•	•			•	•	•		
L	1	•	•	•						•	•

Co = คลัทช์โอเวอรไดรฟ์ C1 = คลัทช์หน้า
C2 = คลัทช์หลัง Bo = เบรคโอเวอร์ไดรฟ์
B1 = เบรคแบรน B2 = เบรคเบอร์ 2
B3 = เบรคเกียร์ 1 และเกียร์ถอยหลัง Fo = คลัทช์ทางเดียวโอเวอร์ไดรฟ์
F1 = คลัทช์ทางเดียว เบอร์ 1 F2 = คลัทช์ทางเดียว เบอร์

4E-FE , EE 101 (89661-1A080)

26P

E01	#10	STA	OX	NE-		IGF	IGT	THA	PIM	THW	NSW	
E02	#20	E1		E21	NE+	ELS3	IDL	VC	PSW	E2	HT	VISC

16P

TE1	TE2		ELS1	FC	ED	BATT	+B1
VF	ELS2	ACT	SPD	AC1		W	+B

4E-FE (EE 111)

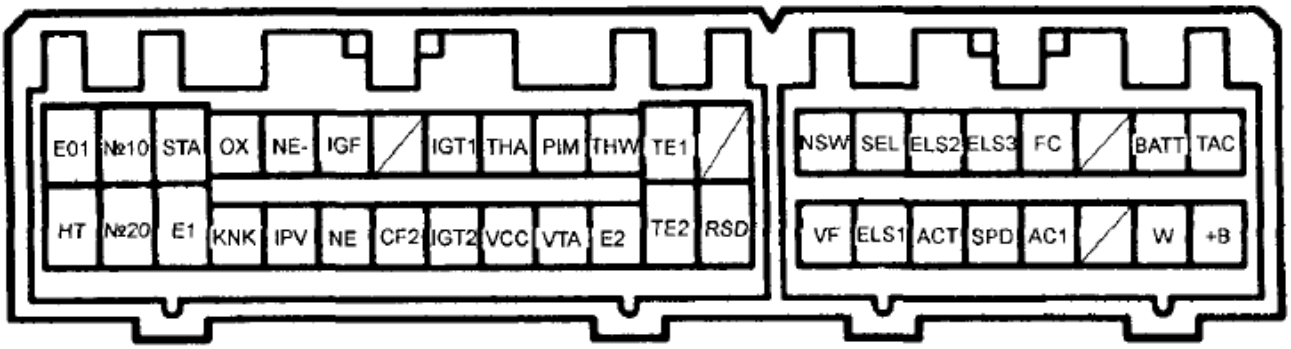
26P

E01	#10	STA	OX	NE-	IGT		IGF	THA	PIM	THW	NSW	RSC
E02	#20	E1			NE+			VCC	VTA	E2	HT	RSO

16P

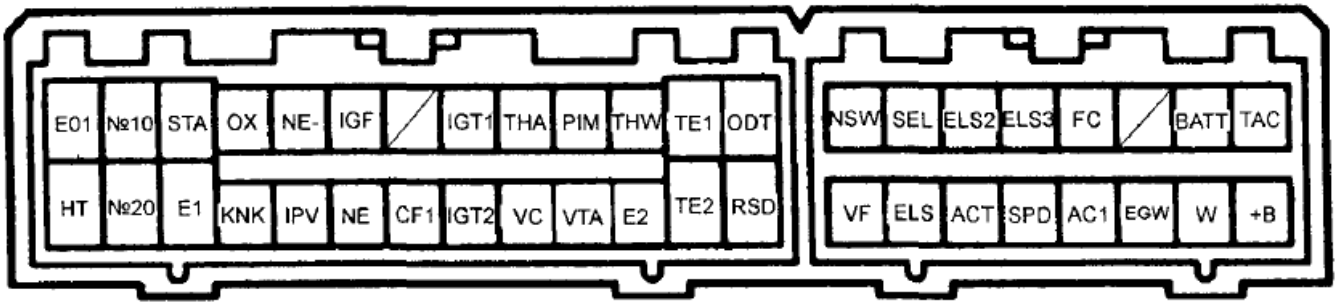
TE1	TE2		ELS1	FC		BATT	
VF		ACT	SPD	AC1		W	+B

4E-FE - Dual Coil

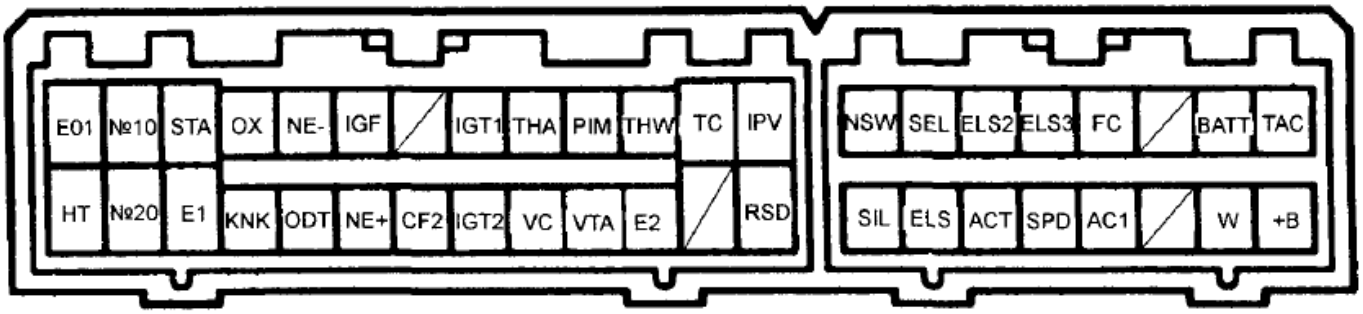


4E-FE, 5E-FE (Tercel/Corsa/Corolla II 50, с 1997 г.).

5E-FE - Dual Coil , RUAM EXZ10



5E-FE (Raum, с 05.1997 г.).



5E-FE (Raum, с 04.2002 г.).

4E-FE , (EE 112) Dual Coil

26P หลังปลั๊ก

E01	#10	STA	OX	NE-	IGF		IGT1	THA	PIM	THW	TE1	
HT	#20	E1	KNK		NE+	CF	IGT2	VC	VTA	E2	TE2	RSD

16P

NSW				FC	IMI	BATT	NSW
VF	ELS	ACT	SPD	AC1	IMO	W	+B

5E-FE (89661 – 1A120)

26 P

E01	#10		RSC	RSO					NE+	IGF	STA	OD
E02	#20	E1	ISC	IGT		ECO			NE-	VSV	NSW	

16 P

VF		OX		THW	THA	PIM	
E21	TE1	KNK	THE	IDL	VC	E2	

12 P

ACT	AC2	FC	CCO	BATT	+B1
ELS	SPD	AC1	EGW	W	+B

5A-FE (AE101 - 3 ห่วง)

26 P

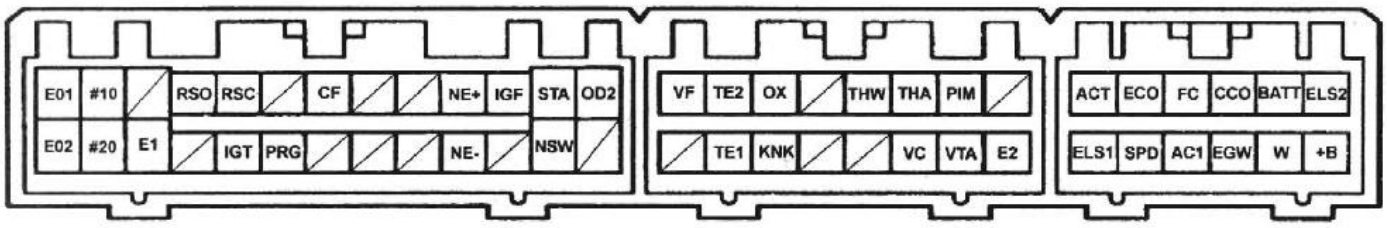
E01	#10	-	RSO	RSC	-	-	-	-	NE+	IGF	STA	OD
E02	#20	E1	ISC	IGT	-	-	-	-	NE-	VSV	NSW	-

16 P

VF	TE2	OX	-	THW	THA	PIM	-
-	TE1	KNK	-	IDL	VC	VTA	E2

12P

ACT	AC2	FC	CCO	BATT	+B
ELS	SPD	AC1	EGW	W	+B



5A-FE (с 08.1996 г.)

5A-FE, A/T

26 P

E01	#10	ECO	RSO	RSC	S2	SL	L		NE+	IGF	STA	OD
E02	#20	E1	ISC	IGT	S1	2	R		NE-	VSV	NSW	HT

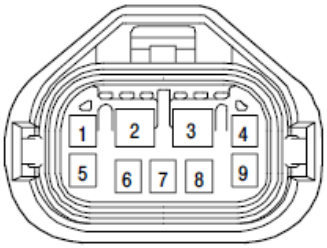
16 P

VF	TE2	OX	P	THW	THA	PIM	CF
TT	TE1	KNK	M	IDL	VC	VTA	E2

12 P

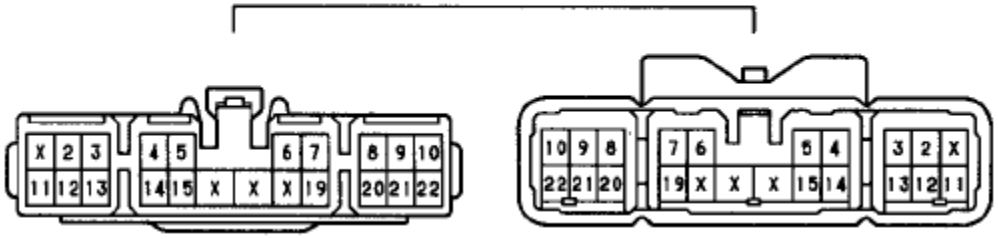
ACT	AC2	FC	CCO	BATT	+B
ELS	SPD	AC1	EGW	W	+B

Inhibitor Switch (หน้า)



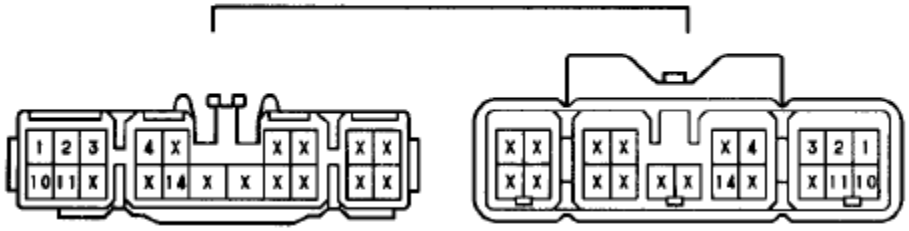
1 - P (L/R) 2 - NSW (B/W) 3 - STA (B) 4 - L (LG) 5 - R (R/B)	6 - IG (R/L) 7 - N (L/Y) 8 - D (L/B) 9 - 2 (LG/R)

IC1 BLACK



1	12 - IG A/C Pressure Sw. (L/R)
2 - A/C Amplifier (Y/B)	13
3 - FP (L/B)	14
4	15 - W (R/Y)
5	16
6 - Oil (Y)	17
7 - Temp (Y/G)	18
8 - L chg (Y)	19 - IG- (B)
9 - R (R/B)	20 - E1 (BR)
10 - IG chg (R/L)	21 - SPD (R/Y)
11 - A/C Compressor (B/W)	22 - SPD- (R/G)

IC2 DARK GRAY



1 - BATT (R/W)	11 - STA (B)
2 - NSW (B/W)	
3	
4 - +B (B/R)	
5	
6	
7	
8	
9	
10	

5A – FE 2 ปลั๊ก

26P หลังปลั๊ก

E01	#10	STA	OX	G-	G1	IGF	IGT	THA	PIM	THW	NSW	EGR
E02	#20	E1	TSW	E21	NE	THG	IDL	VC	VTA	E2	OD	VISC

16P

TE1	ACT	AC2	ELS	FC	CCO	BATT	+B1
VF			SPD	AC1	EGW	W	+B

5A – FE (AL 50) SOLUNA

26P หลังปลั๊ก

E01	#10	STA	OX	NE-		IGF	IGT		PIM	THW	NSW	VSV1
E02	#20	E1	PSST		NE+			VC	VTA	E2	PRS	VSV2

16P

TE1	TE2	B/V	PRS	FC	R/P	BATT	RL2
VF	CF	ELS	SPD	ACMG	THR	W	+B

VSV1 - Idle Speed Control (RSO)
VSV2 - Idle Speed Control (RSC)
PSSW - Power Steering Sw.
PRS - A/C Dual Pressure Sw.
B/V - A/C Sw.
CF - Fan Relay No.3 (ขดลวด)
ACMG - Magnetic Clutch Relay (ขดลวด)
RL2 - Fan Relay No.2 (ขดลวด)
THR - A/C Evaporator Temp. Sen.

5A-FE (ปลั๊กขาว 2ปลั๊ก)

26 P

E01	#10	STA	OX	NE-	-	IGF	IGT	THA	PIM	THW	NSW	RSC
E02	#20	E1	KNK	-	NE+	CF	IDL	VC	VTA	E2	THAO	RSO

16 P

TE1	TE2	ELS2		FC	CCO	BATT	OD2
VF	ELS1	ACT	SPD	AC1	EGW	W	+B

5A-FE , A/T (89661 – 2B540)

26 P

E01	#10	#20	RSO	RSC	-	SP2-	2	-	NE+	IGF	S1	SL
E02	CF	-	VSV	R	ISC	IGT	L	-	NE-	SP2+	S2	E1

16 P

VF	TT	OX	-	THW	THA	PIM	VC
E21	TE1	TE2	KNK	IDL	VTA	-	E2

22 P

STA	AC1	SPD	AC2	OD2	-	W	B/K	EGW	ELS	BATT
NSW	ACT	OD1	P	M	ECO	CCO	-	FC	+B1	+B



G1	NE+	IGT
G-	NE-	IGF

4A-GE (AE92) ปลั๊กเหลือง

10 P

E01	#10	STA		NSW
E02	#20	IGT (B/L)	E1	BF

18 P

VISC	OX	G- (R)	G1 (B)	IGF (B/Y)	TE1	THA	PIM	THW
STH	VF	E21	NE (W)		IDL	VC	VTA	E2

14 P

L1	L2	ECT	FC	CCO	BATT	+B
L3		SPD	A/C	EGW	W	+B1

4A-GE (AE92)สายหัวเทียนหลบ

26 P

E01 (BR)	#10 (G/R)			V-ISC (B)				G2 (G)	NE (R)	IGF (B/Y)	STA (B/W)	
E02 (BR)	#20 (G/Y)	E1 (BR)		IGT (B)				G1 (B)	G- (W)			

16 P

VF (R/W)		OX (B)		THW (W)	THA (Y/B)	PIM (LG/R)	
E21 (BR)	TE1 (L/W)	KNK (B)		IDL (L)	VC (Y)	VTA (R)	E2 (BR)

12 P

		FC (G/R)		BATT (R/W)	+B (B/R)
ELS (B)	SPD (V/W)	A/C (B/W)		W (R/Y)	+B1 (B/R)

4A-FE , A/T - A240E - จานจ่าย 6 เส้น
(AE 101 , AT 190) 89661 – 2B360

26 P

E01 (BR)	#10 (B)	#20 (B/R)	RSO (B/L)	RSC (B/W)	SEL	SP2-	2 (LG/R)	G- (G)	NE+ (B)	IGF (B/Y)	S1 (V)	SL (L/Y)
E02 (BR)	CF	HT	VSV	-	ISC (W/R)	IGT (B)	L (LG)	G1 (R)	NE- (W)	SP2+	S2 (BR/Y)	E1 (BR)

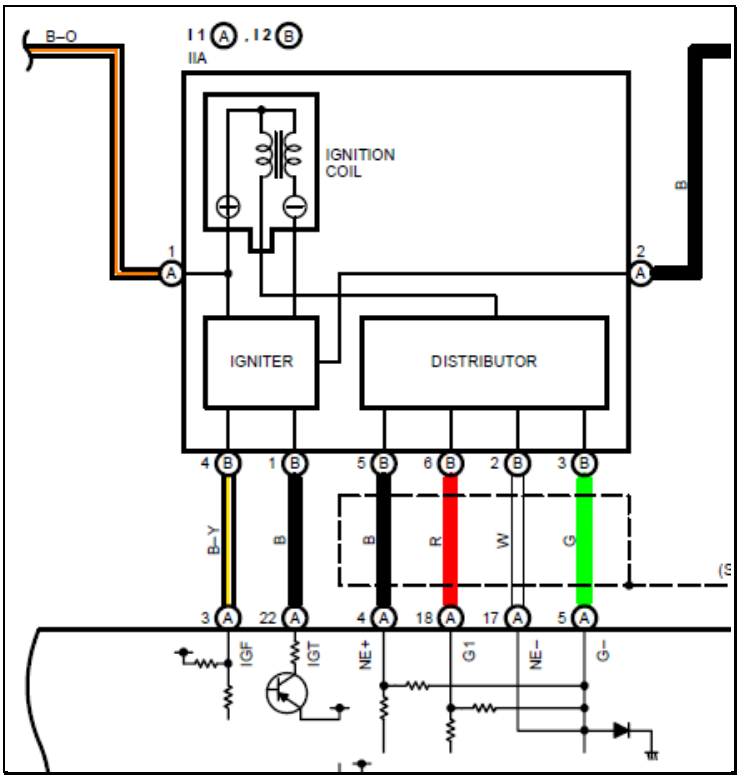
16 P

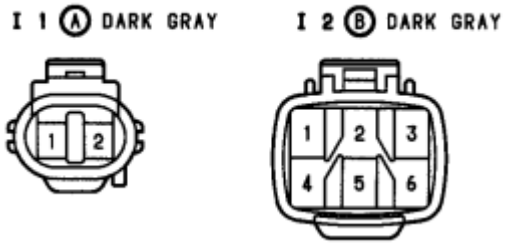
VF (R/W)	TT	OX (B)	-	THW (W)	THA (Y/B)	PIM (LG/R)	VC (Y)
E21	TE1 (L/W)	TE2 (G/W)	KNK (B)	IDL (L)	VTA (LG)	-	E2

22 P

STA (B)	AC1 (Y/L)	SPD (V/W)	AC2	OD2 (LG)	KSW	W (R/Y)	B/K (G/W)	EGW	ELS (B)	BATT (R/W)
NSW (B/W)	ACT (R/Y)	OD1 (R)	P	M	ECO	CCO	R/P	FC (G/R)	+B1 (B/R)	+B (B/R)

Distributor - ใช้ร่วมกับ 3S-FE (89661-2D140)



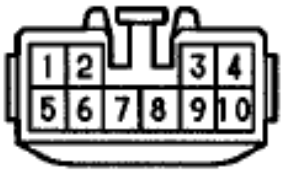


1B - IGT (B)
2B - NE- (W)
3B - G- (G)
4B - IGF (B/Y)
5B - NE+ (B)
6B - G1 (R

+B - B/R BATT - R/W #10 - B #20 - B/R STA - B NSW - B/W FC - G/R THA - Y/B THW - W PIM - LG/R VC - Y VTA - LG IDL - L OX - B TE1 - L/W TE2 - G/W VF - R/W	RSC - B/W RSO - B/L ISC - W/R IGF - B/Y IGT - B NE+ - B G1 - R NE- - W G- - G ELS - B AC1 - Y/L ACT - R/Y SPD - V/W W - R/Y S1 - V S2 - BR/V S3 - L/Y

A/C Amplifier

A10



1	-	A/C Dual Pressure Switch , + (Y/B)
2	-	Thermistor , E2 (B/W) พ่วง 6
3	-	Engine EC U , ACT (R/Y)
4	-	E1 (W/B)
5	-	A/C thermo control (Y/W)
6	-	E2 (B/W)
7	-	LCD A/C Lamp Indicator , - (G/W)
8	-	Engine ECU , AC1 (R/W)
9	-	A/C Mag Relay , - (L/B)
10	-	Thermistor (B/R)

SERVICE HINTS

E 5(A), E 6(B), E 7(C) **ENGINE CONTROL MODULE (ENGINE ECU)**

BATT–E1	:	9.0–14.0 VOLTS (ALWAYS)
+B–E1	:	9.0–14.0 VOLTS (IGNITION SW ON)
+B1–E1	:	9.0–14.0 VOLTS (IGNITION SW ON)
IDL–E2	:	9.0–14.0 VOLTS (IGNITION SW ON AND THROTTLE VALVE FULLY OPEN)
VTA–E2	:	0.3–0.8 VOLTS (IGNITION SW ON AND THROTTLE VALVE FULLY CLOSED)
	:	3.2–4.9 VOLTS (IGNITION SW ON AND THROTTLE VALVE OPEN)
PIM–E2	:	3.3–3.9 VOLTS (IGNITION SW AT **ON** POSITION)
VC–E2	:	4.5–5.5 VOLTS (IGNITION SW ON)
#10, #20–E1, E2	:	9.0–14.0 VOLTS (IGNITION SW AT **ON** POSITION)
THA–E2	:	0.5–3.4 VOLTS (IGNITION SW ON AND INTAKE AIR TEMP. 20°C (68°F))
SPD–E2	:	4.5–5.5 VOLTS (IGNITION SW AT **ON** POSITION)
THW–E2	:	0.2–1.0 VOLTS (IGNITION SW ON COOLANT TEMP. 80°C (176°F))
STA–E1	:	6.0–14.0 VOLTS (CRANKING)
IGT–E1	:	0.8–1.2 VOLTS (IDLELING)
TE1–E1	:	0.8–1.2 VOLTS (IGNITION SW ON AND CHECK CONNECTOR **TE1–E1** NOT CONNECTED)
	:	0–3.0 VOLTS (IGNITION SW ON AND CHECK CONNECTOR **TE1–E1** CONNECTED)
W–E1	:	9.0–14.0 VOLTS (NO TROUBLE AND ENGINE RUNNING)
AC1–E1	:	2.0 VOLTS OR LESS (IGNITION SW ON AND AIR CONDITIONING ON)
ACT–E1	:	4.5–5.5 VOLTS (IGNITION SW ON AND AIR CONDITIONING ON)
NSW–E1	:	0–3.0 VOLTS (IGNITION SW ON AND **PARK/NEUTRAL** POSITION SW (NEUTRAL START SW) AT **P** OR **N** POSITION)
	:	9.0–14.0 VOLTS (IGNITION SW ON AND **PARK/NEUTRAL** POSITION SW (NEUTRAL START SW) AT EX. **P** OR **N** POSITION)
B/K–E1	:	9.0–14.0 VOLTS (BRAKE PEDAL DEPRESS)

RESISTANCE OF ECU WIRING CONNECTORS

IDL–E2	:	INFINITY (THROTTLE VALVE OPEN)
	:	2.3KΩ OR LESS (THROTTLE VALVE FULLY CLOSED)
VTA–E2	:	3.3–10.0KΩ (THROTTLE VALVE FULLY OPEN)
	:	0.2–0.8KΩ (THROTTLE VALVE FULLY CLOSED)
VC–E2	:	3.0–7.0KΩ
THA–E2	:	2.0–3.0KΩ (INTAKE AIR TEMP. 20°C (68°F))
THW–E2	:	2.0–3.0KΩ (COOLANT TEMP. 80°C (176°F)
G1, NE–G–	:	0.17–0.21KΩ
RSC, RSO – + B, +B1	:	19.3–22.3Ω

C 7 **CIRCUIT OPENING RELAY**
1–2 : CLOSED WITH STARTER RUNNING

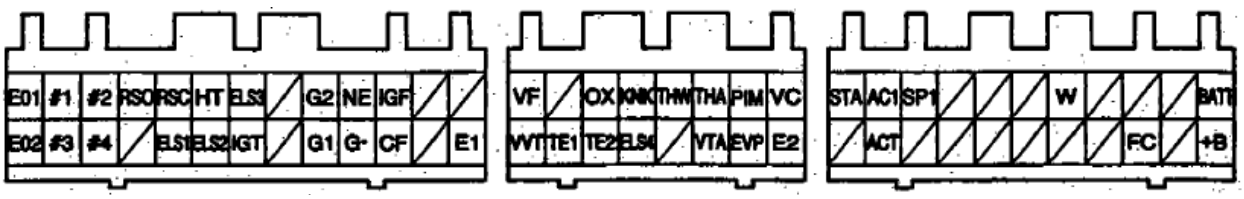
MFI MAIN RELAY (EFI MAIN RELAY)
3–5 : CLOSED WITH IGNITION SW AT **ON** OR **ST** POSITION

E 3 **ENGINE COOLANT LEVEL SENSOR (EFI WATER TEMP. SENSOR)**
1–2 : 10.0–20.0 KΩ (–20°C, –4°F)
4.0–7.0 KΩ (0°C, 32°F)
2.0–3.0 KΩ (20°C, 68°F)
0.9–1.3 KΩ (40°C, 104°F)
0.4–0.7 KΩ (60°C, 140°F)
0.2–0.4 KΩ (80°C, 176°F)

I 4, I 5, I 6, I 7 **INJECTOR**
1–2 : APPROX. 13.8 Ω

T 2 **THROTTLE POSITION SENSOR**
3–1 : 0.3–6.3 KΩ WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0 MM (0 IN.)
2–1 : LESS THAN 2.3 KΩ WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0.35 MM (0.014 IN.)
WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0.7 MM (0.0276 IN.)
3–1 : 3.5–10.3 KΩ WITH THROTTLE VALVE FULLY OPEN

4A-GE , 20 V. (Levin) ฝาดำ
(89661-1A480)



26 P

E01	#10	#20	RSO	RSC	HT	SP2 -	2	G-	NE+	IGF	S1	SL
E02	#30	#40	-	-	ISC	IGT	L	G1	NE-	SP2+	S2	E1

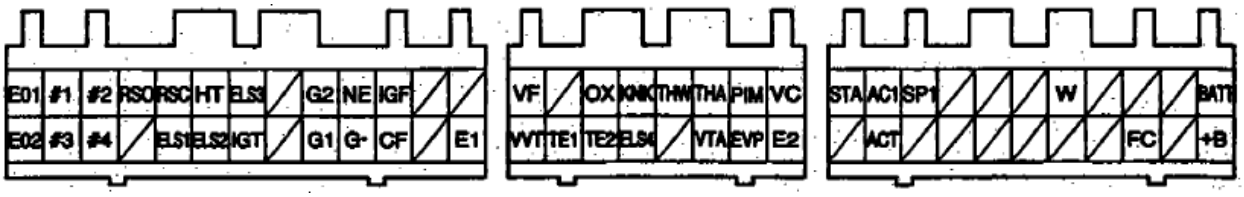
16 P

VF	TT	OX	-	THW	THA	PIM	VC
VTI	TE1	TE2	KNK	IDL	VTA	-	E2

22 P

STA	AC1	SPD	AC2	OD2	KSW	W	B/K	EGW	ELS	BATT
NSW	ACT	OD1	P	M	ECO	CCO	R/P	FC	+B1	+B

4A-GE , 20 V. (AE111) ฝาขาว



26 P

E01	#10	#20	RSO	RSC	HT	ELS3	2	G2	NE	IGF	S1	SL
E02	#30	#40	-	ELS1	ELS2	IGT	L	G1	G-	CF	S2	E1

16 P

VF	TT	OX	KNK	THW	THA	PIM	VC
VVT	TE1	TE2	ELS4	-	VTA	EVP	E2

22 P

STA	AC1	SPD	*	OD2	*	W	B/K	EGW	*	BATT
NSW	ACT	*	P	M	*	CCO	R	FC	*	+B

4A-FE , A/T (AE 110) , ปลั๊กเทา

26 P

E01	#10	ECO	RSO	RSC	S2	SL	L	G1	NE+	IGF	STA	OD2
E02	#20	E1	ISC	IGT	S1	2	R	G-	NE-	PRG	NSW	HT

16 P

VF	TE2	OX	P	THW	THA	PIM	CF
TT	TE1	KNK	M	IDL	VC	VTA	E2

12 P

ACT	ELS2	FC	CCO	BATT	B/K
ELS1	SPD	AC1	EGW	W	+B

4A-FE , A/T (AT190) , ปลั๊กเทา

26 P

E01	#10	#20	RSO	RSC	SEL	-	2	G-	NE+	IGF	S1	SL
E02	*	HT	*	*	ISC	IGT	L	G1	NE-	SP2	S2	E1

16 P

VF	TT	OX	*	THW	THA	PIM	VC
E21	TE1	TE2	KNK	IDL	VTA	*	E2

22 P

STA	AC1	SPD	*	OD2	KSW	W	B/K	ED	ELS	BATT
NSW	ACT	OD1	*	*	*	*	R/P	FC	+B1	+B1

4A-FE (AE 111) , 89661-02450 , จานจ่าย 5 เส้น

26 P

E01 (BR)	#10 (B)	ECO	RSO (B/L)	RSC (B/W)	S2 (BR/Y)	SL (L/Y)	L (LG/B)	G1 (R)	NE+ (B)	IGF (L/Y)	STA (B)	OD2 (R)
E02 (BR)	#20 (Y)	E1	ISC (W/R)	IGT (Y/G)	S1 (V)	2 (LG/R)	R (R/B)	-	NE- (W)	PRG	NSW (B/W)	HT (P)

16 P

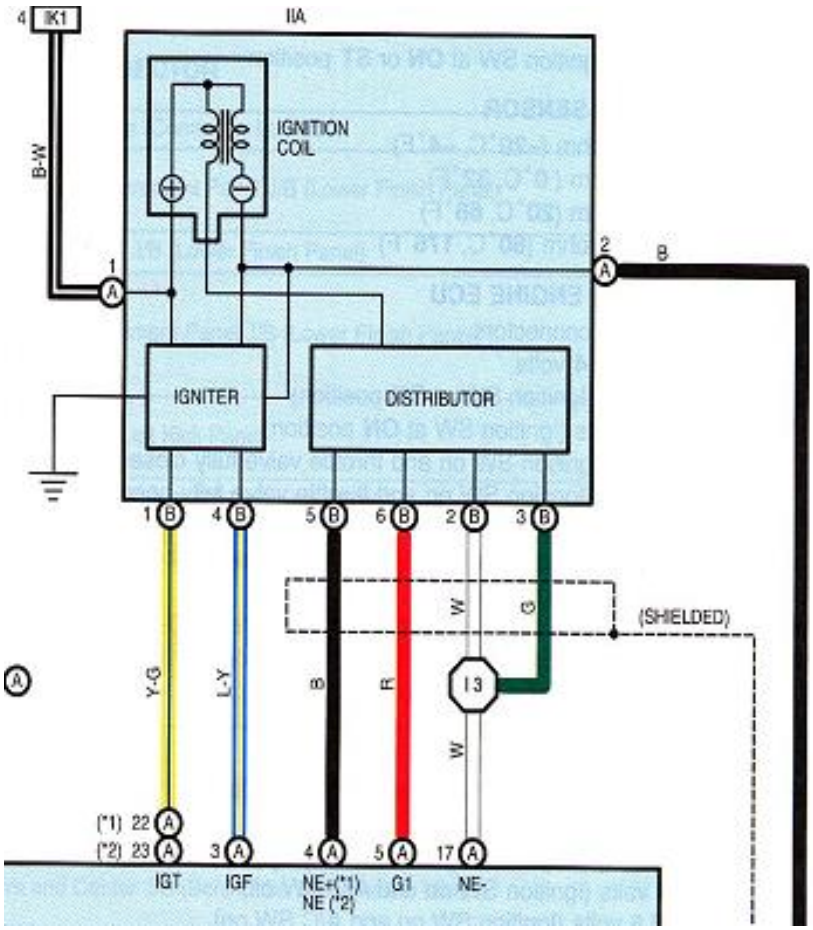
VF (R/W)	TE2 (G/W)	OX (W)	P	THW (W)	THA (Y/B)	PIM (LG/R)	CF
TT	TE1 (L/W)	KNK (B)	M	IDL (L)	VC (Y)	VTA (LG)	E2

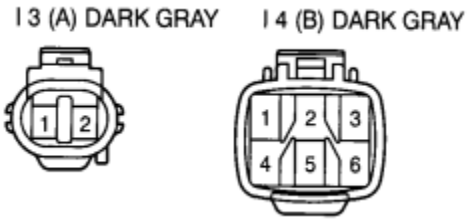
12 P

ACT (R/L)	ELS2 (B)	FC (G/R)	CCO	BATT (R/W)	B/K
ELS1 (G)	SPD (V/W)	AC1 (Y/R)	EGW	W (R/Y)	+B (B)

+B - B
BATT - R/W
#10 - B
#20 - Y
STA - B
NSW - B/W
FC - G/R
THA - Y/B
THW - W
PIM - LG/R
VC - Y
VTA - LG
IDL - L
OX - W
HT - P
TE1 - L/W
TE2 - G/W
VF - R/W

RSC - B/W
RSO - B/L
ISC - W/R
IGF - L/Y
IGT - Y/G
NE+ - B
G1 - R
NE- - W
ELS1 - G
ELS2 - B
AC1 - Y/R
ACT - R/L
SPD - V/W
W - R/Y
OD2 - LG
P - L/R
R - R/B
N - L/W
D - L/B
2 - LG/R
L - LG/B
S1 - V
S2 - BR/Y
SL - L/Y





1 - IGT (Y/G)
2 - NE- (W)
3 - G- (G) พ่วง NE-
4 - IGF (L/Y)
5 - NE+ (B)
6 - G1 (R)

4A-FE , A/T (AE 112) 89661-13020 , ไม่มี RSC
ปลั๊กขาว , จานจ่าย 4 เส้น เหมือน 5A-FE

26 P

E01 (BR)	#10 (B)	ECO (L/W)	RSO (B/L)	-	S2 (BR/Y)	SL (L/Y)	L (LG/B)	-	NE+ (B)	IGF (L/Y)	STA (B)	OD2 (LG)
E02 (BR)	#20 (Y)	E1 (BR)	-	IGT (Y/G)	S1 (V)	2 (LG/R)	R (R/B)	-	NE- (W)	PRG (L/B)	NSW (B/W)	-

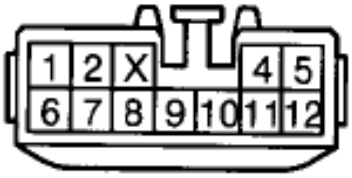
16 P

VF (R/W)	TE2 (G/W)	OX (W)	-	THW (W)	THA (Y/R)	PIM (LG/R)	CF (LG/B)
TT (G/Y)	TE1 (L/W)	KNK (B)	-	-	VC (Y)	VTA (LG)	E2 (BR)

12 P

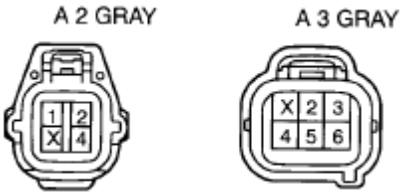
ACT (R/L)	ELS2 (B)	FC (G/R)	-	BATT (R/W)	B/K (G/W)
ELS1 (G)	SPD (V/W)	AC1 (Y/R)	-	W (R/Y)	+B (B)

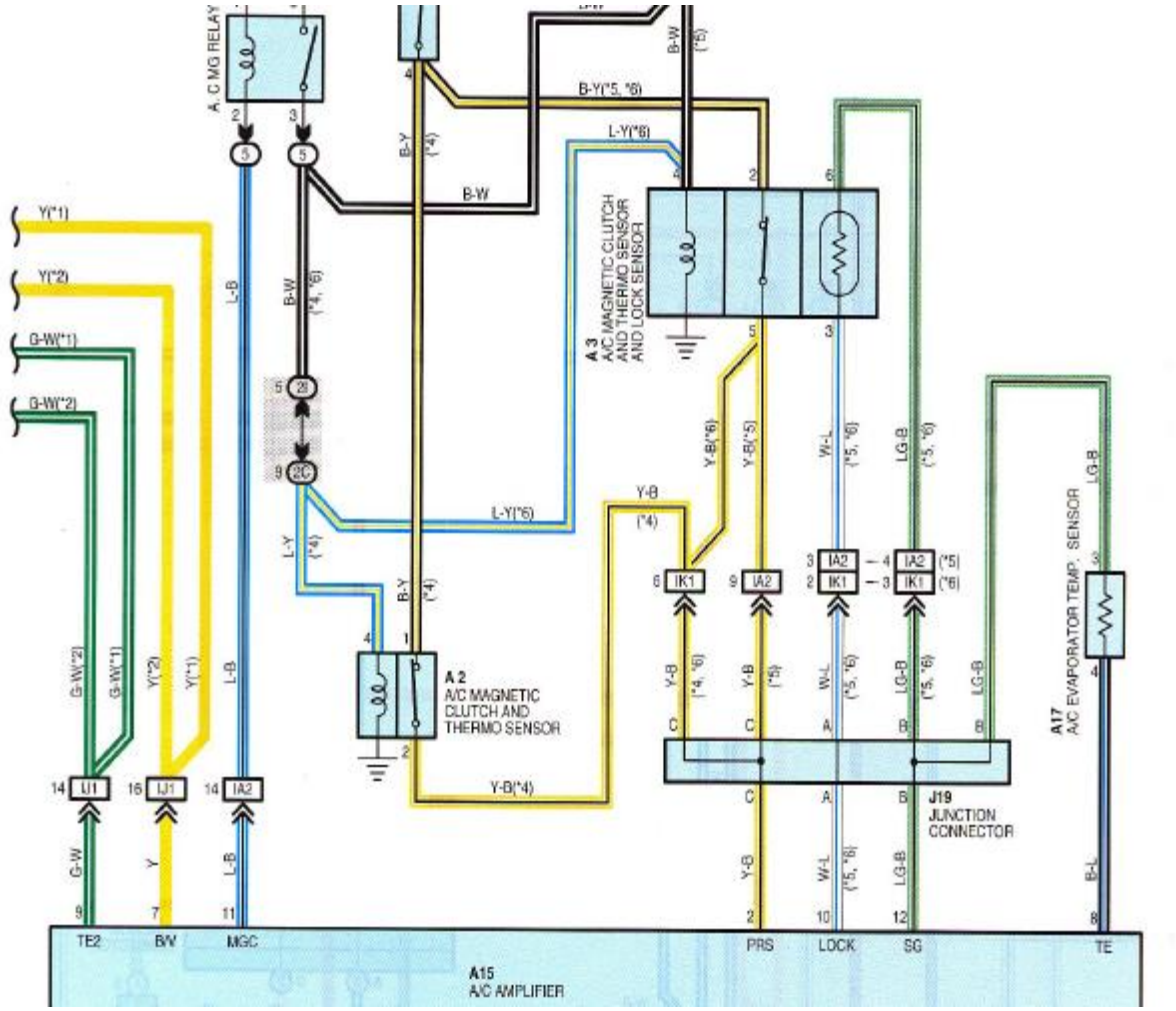
A/C Amplifier



1 - AC1 (Y/R) 2 - +B มาจาก Dual Pressure Sw. – A/C Thermo Sw. (Y/B) 3 - @ 4 - IG- (B) 5 - E1 (W/B) 6 - ACT (R/L)	7 - A/C Sw. Temp Control (Y) 8 - Evap Temp Sen. (B/L) 9 - A/C Sw. (G/W) 10 - Lock Sen. (W/L) 11 - A/C Mag Rel. (L/B) 12 - E2 ของ Evap Temp Sen. , Lock Sen. (LG/B)

A/C Compressor




A. C MG RELAY
Y(*1)
Y(*2)
G-W(*1)
G-W(*2)
L-B
B-W
B-Y
B-Y(*5, *6)
L-Y(*6)
B-W (*5)
B-W (*4, *6)
L-Y
L-Y (*4)
B-Y (*4)
Y-B (*4)
Y-B(*6)
Y-B(*5)
W-L
LG-B
A 3
A/C MAGNETIC CLUTCH AND THERMO SENSOR AND LOCK SENSOR
A 2
A/C MAGNETIC CLUTCH AND THERMO SENSOR
A17
A/C EVAPORATOR TEMP. SENSOR
J19
JUNCTION CONNECTOR
A15
A/C AMPLIFIER
TE2
B/V
MGC
PRS
LOCK
SG
TE

4A-FE , Dual Coil , A/T , 15700-7821
ไม่มี SP2 , ไม่มี SPD ใช้ ABS , SP1

26 P

E01	#10	#20	RSO	RSC	SL	EVP	NC2+	G+	NE+	IGF	S1	HT
E02	#30	#40	SLU+	SLU-	IGT2	IGT1	NC2-	ECO	NE-	CF	S2	E1

16 P

VF	TT	OX	CPS	THW	THA	PIM	VC
SCV	TE1	TE2	KNK	PS	VTA	THO	E2

22 P

STA	AC1	SPD	2	OD2	R	W	STP	EGW	ELS	BATT
NSW	ACT	L	PWR	MANU	THWO	CCO	ED	FC	TAC	+B

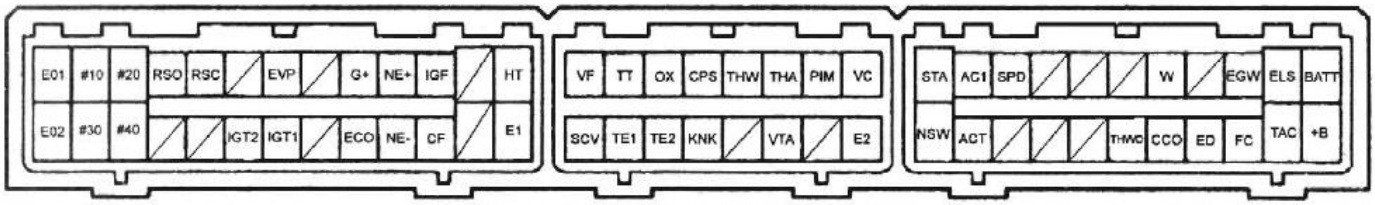
A/T Solenoid (8 เส้น)

E 2 GRAY



OIL	SL	SLU+	S1
E2	*	SLU-	S2

7A-FE , Caldina - Dual Coil , A/T , 89661-2D800



7A-FE (МКПП, с 08.1996 г.)

26 P

E01 (BR)	#10 (L)	#20 (R)	RSO (B/O)	RSC (B/L)	SL (P/B)	EVP (R/Y)	NC2+ (R)	G+ (G)	NE+ (B/W)	IGF (B/Y)	S1 (LG)	HT (B/Y)
E02 (BR)	#30 (L/R)	#40 (R/W)	SLU+ (R)	SLU- (R/W)	IGT2 (B/R)	IGT1 (B)	NC2- (L/W)	ECO	NE- (L)	CF (L/W)	S2 (V)	E1 (BR)

16 P

VF	TT	OX (B)	CPS (R)	THW (G)	THA (Y/B)	PIM (P)	VC (Y)
SCV (L/B)	TE1	TE2	KNK (W)	PS	VTA (LG)	OIL (GR)	E2 (BR)

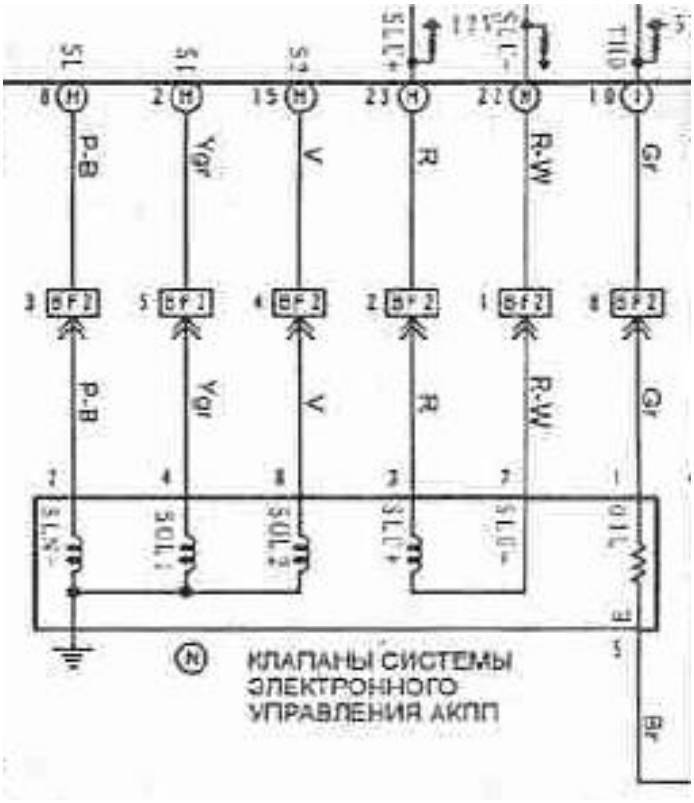
22P

STA (B)	AC1 (Y/G)	SP1 (V/Y)	2 (LG/R)	OD2 (L)	R (R/B)	W (R/Y)	STP (G/W)	EGW	ELS (G/Y)	BATT (B/Y)
NSW (B/W)	ACT (LG/B)	L (LG)	PWR (P)	MANU (P/B)	THWO (Y/R)	CCO	ED (R)	FC (G/R)	TAC (B)	+B (B/R)

\

THO - A/T Fluid Temp. Sen.
CPS - Hall 5 V.
ED - Lean Burn Lamp
Spark Plug - ND SK20R-13 Gap 1.3 mm.

A/T Solenoid (8 เส้น)



E 2 GRAY



THO	**SL**	**SLU+**	**S1**
E2	*	**SLU-**	**S2**

5S-FE , M/T - Camry 1994

E11 , A (26 P)หน้าปลั๊ก

ISCV	STA	IGF	NE+	G+				ISCC	ISCO		#10	E01
			NE-	G-				IGT	EGR	E1	#20	E02

E12 , B (16 P)

OX2	PIM	THA	THW	KNK	OX1	TE2	VF
E2	VTA	VC	IDL	THG		TE1	E21

E14 , C (12 P)

+B1	BATT	ACA	FC		ACT
+B	W			SPD	ELS

5S-FE , dual coil – Camry 1999

E9 , C (26 P)หน้าปลั๊ก

HT1	HTAF	EVP	PSST		ISCC	ISCO	S1	#40	#30	#20	#10	E01
HT2	E04		IGF		LOCK IN	SL	S2	IGT2	IGT1	E1	E03	E02

E10 , D (12 P)

IMLD		RXCK	KSW		NE-
MREL	CODE	TXCT		G+	NE+

E8 , B (16 P)

VC	PIM	THA	THW	OX1	AF+	TE1	PTNK
E2	VTA	THR	KNK	OX2	AF-	EGR	PTC

E7 , A (22 P)

IGSW	BATT	IDLO	W	OD2	SIL	TACH	SPD	STP	A/C	STA
+B	ELS	FC	L	2	R	OD1	PRS	LOCK	MGC	NSW

3S-FE , A/T (89661-2D010)

26 P

E01	#10	#20	RSO	RSC	FPU	ISC	-	NE-	NE+	IGF	S1	SL
E02	-	HT	EGR	-	CF	IGT	-	G1	G-	-	S2	E1

16 P

VF	TT	OX	OX2	THW	THA	PIM	VC
E21	TE1	TE2	KNK	IDL	VTA	THG	E2

22 P

STA	AC1	SPD	ATS	OD2	P	W	B/K	KSW	ELS	BATT
NSW	ACT	OD1	L	2	SEL	R/P	M	FC	+B1	+B

3S-FE , A/T(89661-32830 , 89661-2D380) coil+ignitor แยก

26 P

E01	#10	#20	RSO	RSC	EVP	CCO	2	-	NE+	IGF	S1	SL
E02	CF	HT	M	P	VISC	IGT	-	-	NE-	-	S2	E1

16 P

VF	TT	OX	-	THW	THA	PIM	VC
E21	TE1	TE2	KNK	IDL	VTA	-	E2

22 P

STA	AC1	SP1	-	OD2	ECO	W	B/K	EGW	ELS	BATT
NSW	ACT	-	-	-	-	SSC	-	FC	+B1	+B

3S-FE , Caldina , dual coil (89661-43100)

26 P

E01	#10	#20	ISCO	ISCC	EVP	-	PSST	G+	NE+	P	EGR	NSW
E02	#30	#40	S1	S2	SL	IGT1	IGT2	M	NE-	IGF	G-	E1

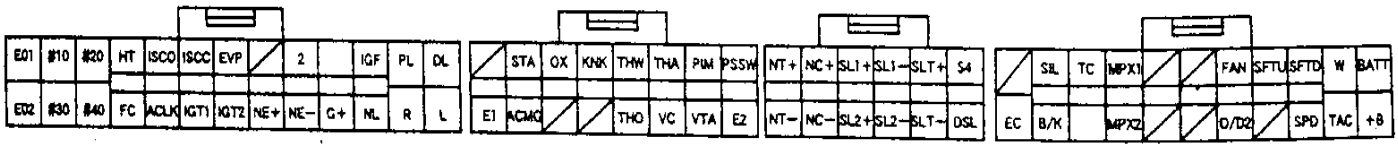
16 P

HT	-	OX	-	THW	THA	PIM	VC
-	-	FAN	KNK	-	VTA	-	E2

22 P

STA	AC1	SPD	TAC	-	EGW	W	B/K	-	ELS1	BATT
OD2	ACT	THW O	L	2	-	SIL	TC	FC	ELS2	+B

3S-FE , Vista 1998



3S-GE , M/T , ปลั๊กเทา

26 P

E01	#10	#20	STJ	RSC	HT	*	*	FPU	*	IGF	G2	NE
E02	#30	#40	EGR	RSO	*	IGT	*	ACIS	*	G-	G1	E1

16 P

VF	*	OX	KNK	THW	THA	PIM	VC
E21	TE1	TE2	*	IDL	VTA	*	E2

22 P

STA	AC1	SPD	*	*	FPR	W	B/K	*	ELS	BATT
*	ACT	*	*	*	*	*	*	FC	+B1	+B

G1	-	R
G2	-	L
G-	-	B
NE	-	Y
#10	-	R
#20	-	G
#30	-	Y
#40	-	L

3S-GE , A/T (89661-2B831)- ปลั๊กเทา , คอกล้วย

26 P

E01	#10	#20	#40	S2	SL	RSO	RSC	S1	SLD+	SLD-	ACIS	HT
E02	#30	E1	IGT	FR+	FR-	RR+	RR-	FPU	IGF	ENGF	VF	FC

16 P

TT	TE1	KNK	OX	THW	THA	PIM	VC
*	TE2		*		IDL	VTA	E2

12 P

G-	*	*	VISC	PS	CF
NE	G1	G2	EVP	CCO	EGW

22 P

STA	L	OD2	SP1	AC1	ACT	ELS	W	ECO	BATT	+B
NSW	2	P	M	OD1	ATS	R	THE	STP	AUTO	+B

3S-FE , dual coil , A/T (89661-28800)
Lite Ace 1996 - ปลั๊กขาว , ขับหลัง

26 P

E01	#10	HT	ISCO	ISCC	EVP	-	-	-	NE+	-	STA	-
E02	#20	E1	-	TAC	IGT1	IGT2	-	-	NE-	IGF	-	OD

16 P

VF	TE2	OX1	KNK	THW	THA	PIM	ELS2
FPU	TE1	IMO	IMI	AMA	VC	VTA	E2

12 P

ACT	AC1	THWO	FC	EGW	BATT
ELS	SPD	NSW	ODSW	W	+B

3S-FE , dual coil , A/T (89661-28820)
Noah , Lite Ace 1998 - ปลั๊กขาว , ขับหลัง

26 P

E01 (BR)	#10 (B/W)	#30 (B)	ISCO (L/B)	ISCC (L/Y)	SLT+ (GR)	SLT- (LG)	-	G+ (O)	NE+ (R)	-	EVP (P/B)	NSW (B/W)
E02 (BR)	#20 (B/Y)	#40 (GR)	S1 (P)	S2 (P/L)	SLU+ (V)	IGT1 (R/L)	IGT2 (R/W)	SLU- (L/W)	-	IGF (B/Y)	G- (G)	E1 (BR)

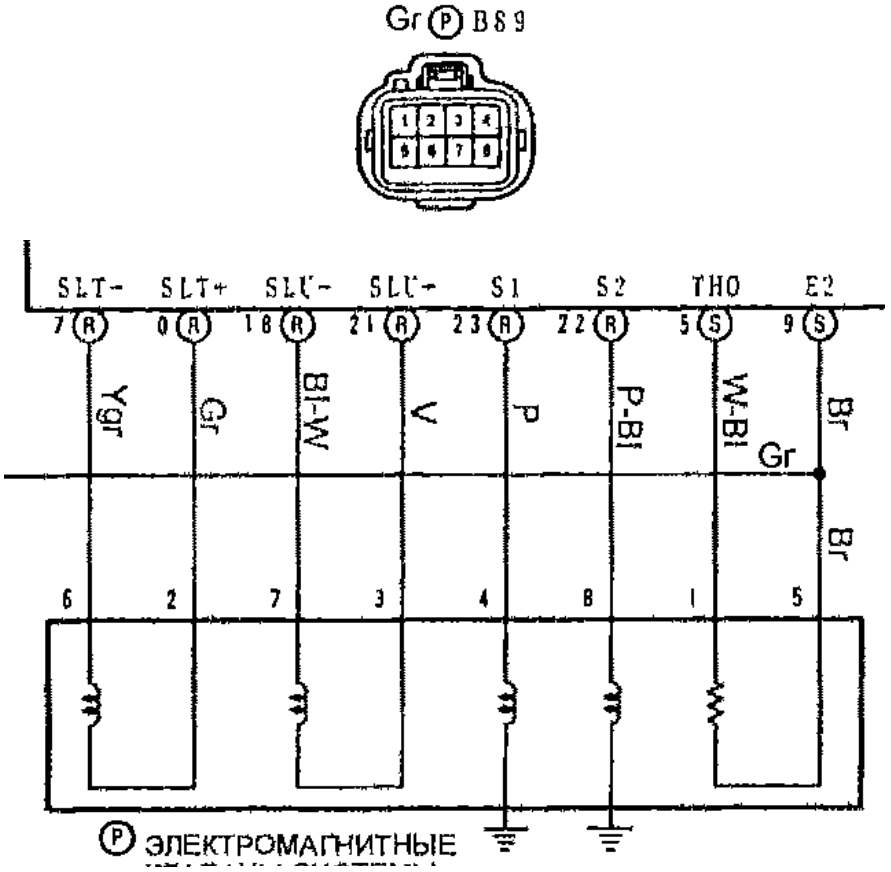
16 P

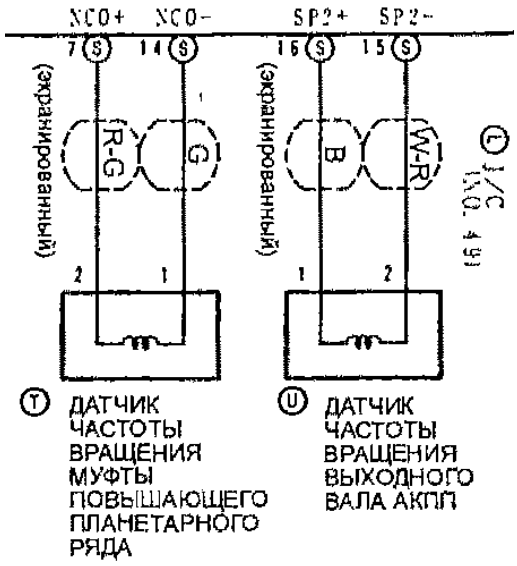
HT (P/B)	NCO+ (R/G)	OX1 (R)	THO (W/L)	THW (L)	THA (Y/B)	PIM (LG/R)	VC (Y)
SP2+ (B)	SP2- (W/R)	NCO- (G)	KNK (R)	-	VTA (LG)	-	E2 (BR)

22 P

STA (B)	AC1	SPD (R/Y)	TAC (G/B)	-	-	W (R/Y)	B/K (G/W)	-	ELS (B)	BATT (R/W)
OD2 (LG/R)	ACT	OD1	L (Y/B)	2 (O)	-	SIL (B)	TC (P/B)	FC (G/R)	R (R/B)	+B (B/R)

A/T Solenoid


Gr Ⓟ B89
SLT-
SLT+
SLU-
SLU+
S1
S2
THO
E2
7 Ⓡ
0 Ⓡ
18 Ⓡ
21 Ⓡ
23 Ⓡ
22 Ⓡ
5 Ⓢ
9 Ⓢ
YgR
Gr
Bl-W
V
P
P-Bl
W-Bl
Br
Gr
Br
6
2
7
3
4
8
1
5
Ⓟ ЭЛЕКТРОМАГНИТНЫЕ


NC0+
NC0-
SP2+
SP2-
7 Ⓢ
14 Ⓢ
16 Ⓢ
15 Ⓢ
(экранированный)
R-G
G
(экранированный)
B
W-R
Ⓛ T/C (NO. 491)
2
1
1
2
Ⓣ ДАТЧИК ЧАСТОТЫ ВРАЩЕНИЯ МУФТЫ ПОВЫШАЮЩЕГО ПЛАНЕТАРНОГО РЯДА
Ⓤ ДАТЧИК ЧАСТОТЫ ВРАЩЕНИЯ ВЫХОДНОГО ВАЛА АКПП

3S-FE , dual coil , A/T (89661-2D590)
ปลั๊กขาว

26 P

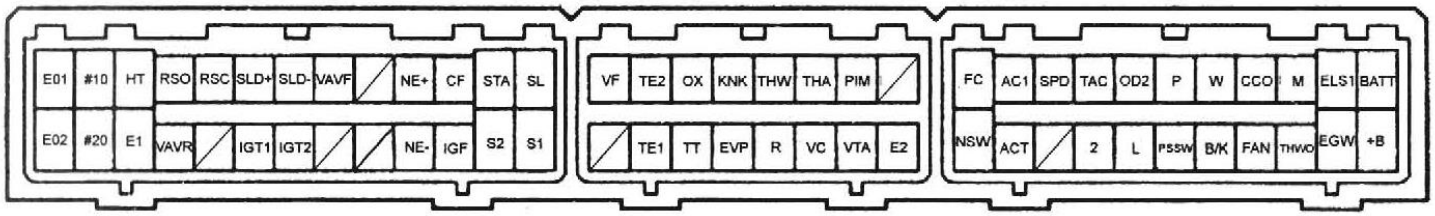
E01	#10	HT	ISCO	ISCC	EGR	CCO	R/P	G+	NE+	CF	STA	SL
E02	#20	E1	EGR	CF	CCO	IGT1	IGT2	G-	NE-	IGF	S2	S1

16 P

VF	TT	OX1	VAF	THW	THA	PIM	VC
-	TE1	TE2	KNK	IDL	VTA	-	E2

22 P

STA	AC1	SPD	M	OD2	P	W	B/K	EGW	ELS	BATT
NSW	ACT	OD1	L	2	IMI	IMO	THWO	FC	TAC	+B



3S-FE (c 08.1996 r.)

3S-FE , dual coil , A/T (89661-44010)
Isum SXM10 – 1996 , ปลั๊กขาว

26 P

E01	#10	HT	ISCO	ISCC	EVP	CCO	-	-	NE+	CF	STA	SL
E02	#20	E1	-	-	IGT1	IGT2	-	-	NE-	IGF	S2	S1

16 P

VF	TE2	OX1	KNK	THW	THA	PIM	-
-	TE1	TT	-	-	VC	VTA	E2

22 P

FC	AC1	SPD	TAC	OD2	-	W	-	-	ELS1	BATT
NSW	ACT	THWO	2	L	-	STP	FAN	-	EGW	+B

3S-FE , dual coil , A/T
Isum – 1999 , ปลั๊กขาว

26 P

E01	#10	HT	ISCO	ISCC	SLD+	SLD-	FR+	G+	NE+	-	STA	SL
E02	#20	E1	RR+	RR-	IGT1	IGT2	FR-	-	NE-	IGF	S2	S1

16 P

VF	TE2	OX1	KNK	THW	THA	PIM	-
ST	TE1	TT	EGR	R	VC	VTA	E2

22 P

FC	AC1	SPD	TAC	OD2	P	W	KD	IMI	ELS1	BATT
NSW	ACT	ELS2	2	L	-	STP	-	IMO	SEL	+B

3S-FE , dual coil , M/T (89661-44010)
ปลั๊กขาว

26 P

E01	#10	#30	RSO	RSC	EVP	CCO	-	PSST	G+	NE+	-	-
E02	#20	#40	-	-	-	IGT1	IGT2	-	NE-	IGF	G-	E1

16 P

HT	-	OX1	-	THW	THA	PIM	VC
-	-	FAN	KNK	-	VTA	-	E2

22 P

STA	AC1	SPD	TAC	-	EGW	W	-	-	ELS	BATT
-	ACT	THWO	-	-	-	SIL	TC	FC	-	+B

3S-FE , dual coil , A/T
Caldina ST210 , ปลั๊กขาว

26 P

E01	#10	#20	RSO	RSC	EVP	-	PSST	G+	NE+	P	-	NSW
E02	#30	#40	S1	S2	SL	IGT1	IGT2	M	NE-	IGF	G-	E1

16 P

HT	-	OX1	-	THW	THA	PIM	VC
-	-	FAN	KNK	-	VTA	-	E2

22 P

STA	AC1	SPD	TAC	-	EGW	W	B/K	-	ELS	BATT
OD2	ACT	THWO	L	2	-	SIL	TC	FC	R	+B

3S-FE , dual coil
Nadia SXN1 – 1998 , ปลั๊กขาว

26 P

E01	#10	#30	ISCO	ISCC	EVP	CCO	-	G2	NE+	IGF	HT	-
E02	#20	#40	EGR	EVP	IGT2	IGT1	-	NE-	S1	-	S2	E1

16 P

-	-	OX1	-	THW	THA	PIM	VC
SL	E03	-	-	-	VTA	KNK	E2

22 P

STA	AC1	SPD	R	OD2	TC	W	B/K	ELG+	ELG-	BATT
NSW	ACT	-	L	2	ELS	SIL	-	FC	TAC	+B

3S-FE , A/T
RAV4 – 1997 ปลั๊กเทา

26 P

E01 (BR)	#10 (B/R)	#20 (B/Y)	ISCO (B/L)	ISCC (B/Y)	FR+ (Y/R)	FR- (W/R)	-	G+ (B)	NE+ (R)	IGF (L/Y)	S1 (P/B)	SL (Y/B)
E02 (BR)	#30 (B/R)	#40 (B/Y)	EGR (B/W)	EVAP (P)	-	IGT (B)	-	-	NE- (G)	-	S2 (P)	E1 (BR)

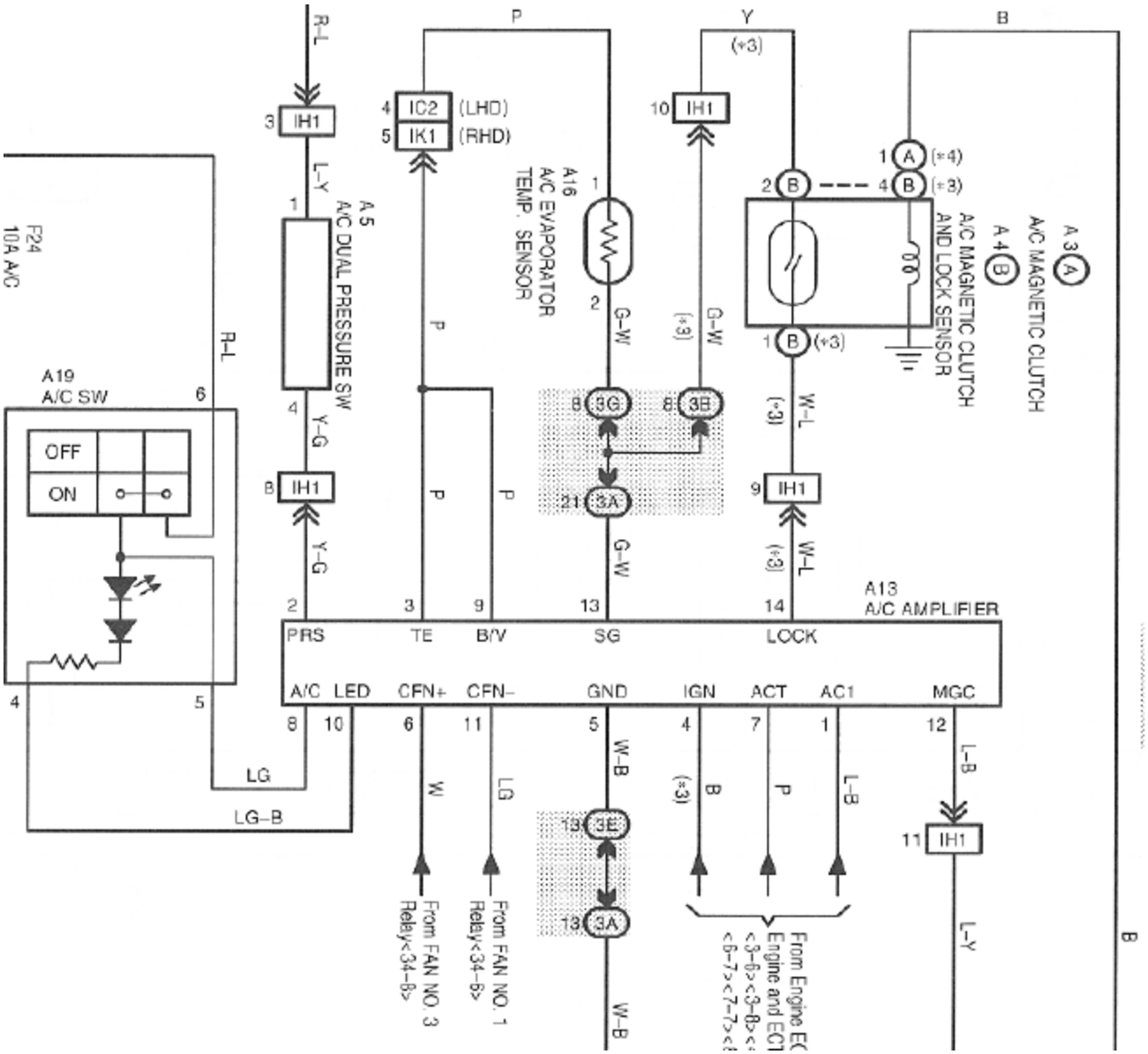
16 P

TPC (R/W)	PTNK (L/Y)	OX1 (B)	OX2 (B)	THW (W)	THA (Y/B)	PIM (LG/R)	VC (Y)
E03 (BR)	TE1 (L/W)	RR+ (L/Y)	RR- (R/L)	-	VTA (L/R)	KNK (B)	E2 (BR)

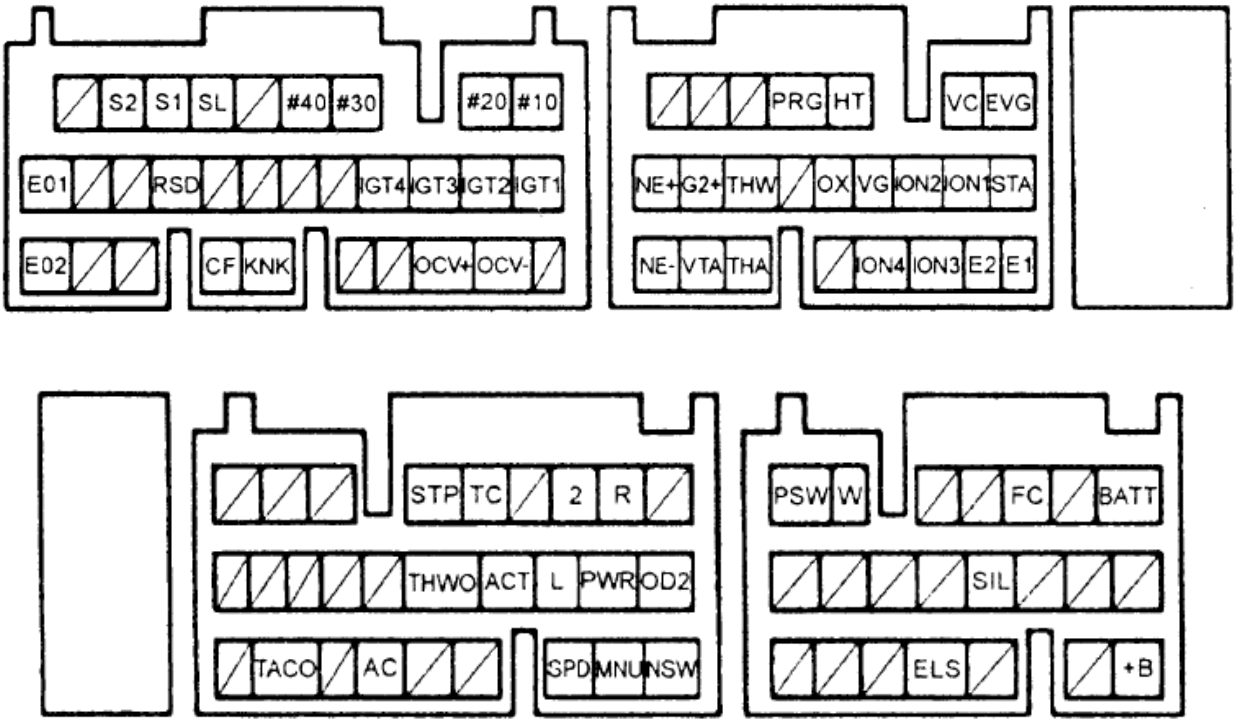
22 P

STA (B)	AC1 (Y/G)	SPD (V/W)	-	-	-	W (G/R)	B/K (G/W)	SLD+ (L/B)	SLD- (BR/B)	BATT (R/W)
NSW (B/W)	ACT (R/Y)	-	-	-	ELS (B)	SDL (W)	-	FC (G/R)	ST (LG)	+B (B/R)

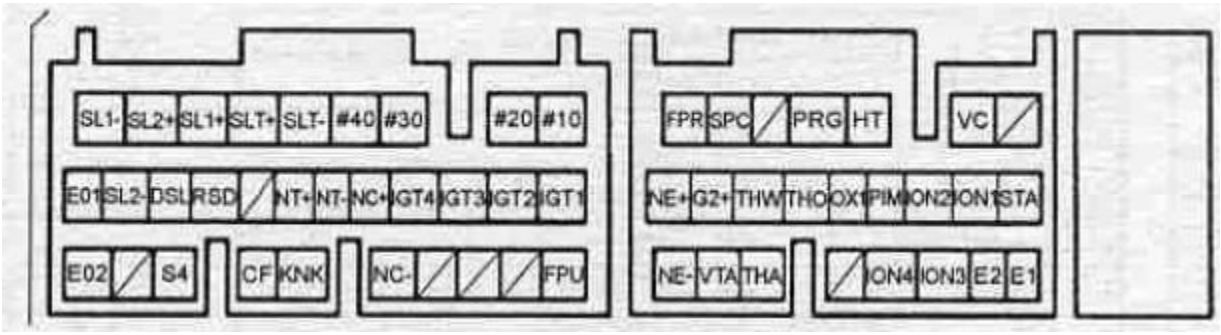
A/C system - 3S-FE

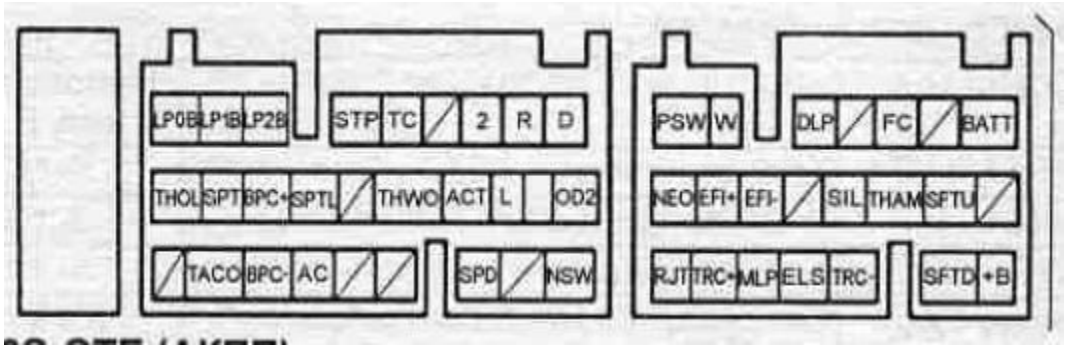


3S-GE , VVT(89661-21310)

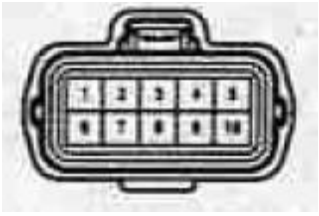


3S-GTE , VVT(Beam)Triptronic





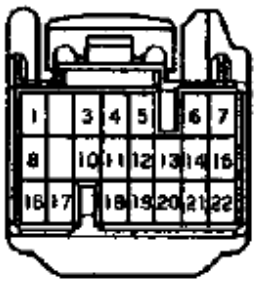
A/T Solenoid



THO (O)	SLT+ (G/W)	DSL (L/O)	SL2+ (P/B)	SL1+ (LG)
E2 (BR)	SLT- (BR/W)	S4 (R/W)	SL2- (LG/R)	SL1- (V)

3S-GE , VVT ดันเร่งไฟฟ้า A/T 12 เส้น Tiptronic

Milkywhite
乳白色 Ⓝ A53



Milkywhite
乳白色 Ⓞ B68
乳白色 ⓐ A49

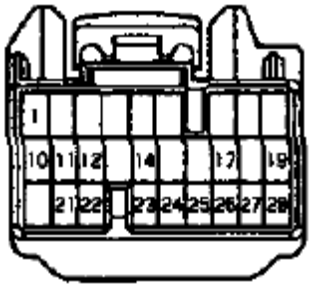


Milkywhite
乳白色 Ⓟ B66



Grey

Milkywhite
乳白色 Ⓠ A52



Milkywhite
乳白色 ⓑ B67



หน้าปลั๊ก

A 53 (22 P) N	
1	BATT (B/Y)
2	
3	FC (G/Y)
4	FAN (L/B)
5	MPX1 (O)
6	PRE (L/Y) , A/C pressure sw.
7	W (R/L)
8	+B (B/R)
9	
10	IGSW (B/R)
11	SIL (W)
12	MPEX2 (L)
13	ENG- (P)
14	ENG+ (L)
15	EC (W/B)
16	+B (B/R)
17	TRA (G)
18	SFTU (GR/R) , -
19	SFTD (GR/G)
20	TRC- (W)
21	TRC+ (R)
22	MREL (B/O)

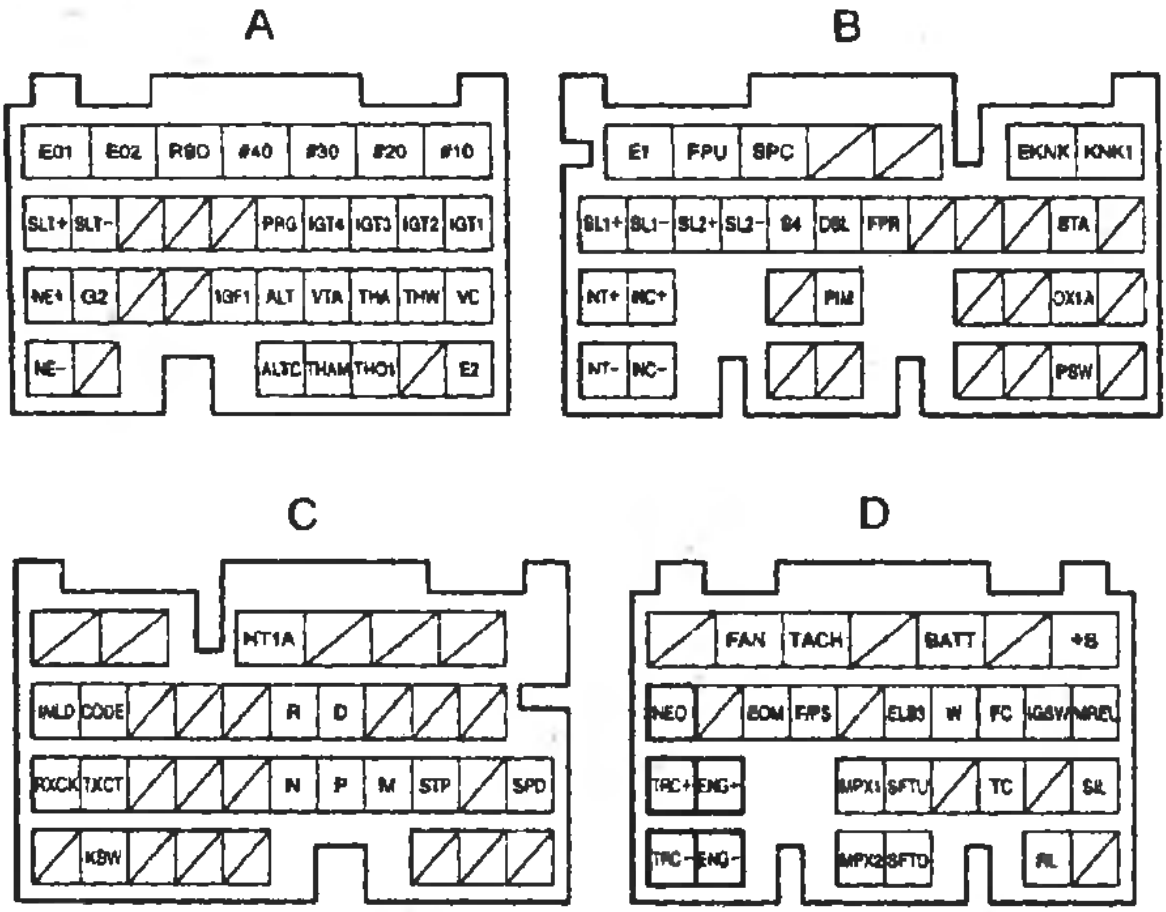
A 52 (28 P) Q	
1	ACMG (L/W)
2	-
3	-
4	
5	-
6	-
7	
8	
9	
10	OX2A (W)
11	HT2A (R/W)
12	-
13	-
14	TAM (LG/B) , out side temp. sen.
15	
16	
17	NEO (G)
18	
19	SPD (W/L)
20	-
21	D (GR/B)
22	R (R/B)
23	NSW (B/W)
24	TC (Y/G)
25	2 (Y/G)
26	TACH (B)
27	STP (G/W)
28	STA (B)

B 68 (24 P) O	
1	EVG (Y)
2	VC (L/Y)
3	HT1A (R/W)
4	OCV- (Y/B)
5	OCV+ (W/R)
6	OCV2- (LG/B)
7	OCV2+ (GR)
8	LCK1 (W/L) , magnetic clutch lock
9	IGF1 (L/R)
10	IGF2 (W)
11	IGF3 (G/R)
12	IGF4 (B)
13	
14	GEX (Y) , VVT Sen.
15	G2 (G)
16	NE+ (B/W)
17	E1 (BR)
18	E2 (BR)
19	VPA2 (L/W)
20	VPA (G/B)
21	VG (R)
22	VTA2 (R/B)
23	VTA (Y/G)
24	NE- (L)

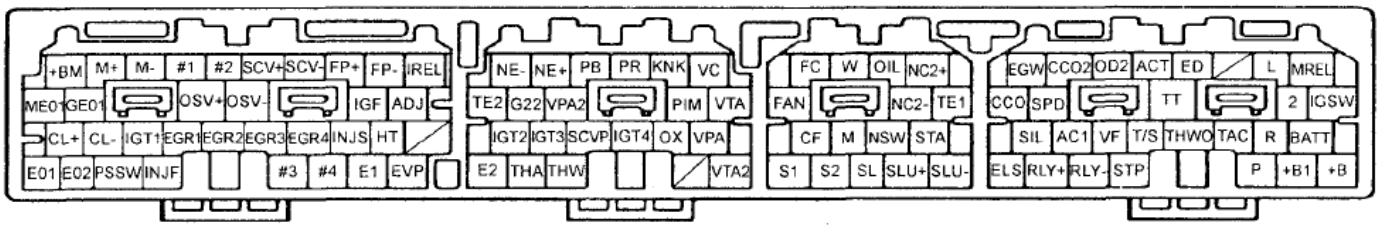
B 66 (31 P) P	
1	#10 (R)
2	#20 (L)
3	#30 (G)
4	#40 (R/W)
5	ACIS (Y/G)
6	+BM (L/W)
7	PRG (GR)
8	ME01 (BR)
9	GE01 (shield)
10	IGT1 (B/L)
11	IGT2 (Y/R)
12	IGT3 (BR/W)
13	IGT4 (L/R)
14	P (G)
15	PSST (L/Y)
16	THA (W/R)
17	THW (R)
18	RSO
19	M+ (B/W)
20	CL+ (R)
21	E01 (W/B)
22	RL (B/R) , alternator
23	N (G/R)
24	L (G/Y)
25	3 (G/W)
26	4 (LG/B)
27	KNK (B)
28	OX1A (W)
29	M- (L)
30	CL- (Y)
31	E02 (W/B)

B 67 (17 P) b	
1 - SLU- (L/R) 2 - SLU+ (G/W) 3 - S3 (R/Y) 4 - SP2- (R/L) 5 - SP2+ (Y/R) 6 - S1 (L/Y) 7 - SLN- (L/B) 8 - SLN+ (P) 9 - S4 (GR) 10 - NCO- (G) 11 - NCO+ (R) 12 - S2 (G/Y) 13 - SLT- (R/B) 14 - SLT+ (B/Y) 15 16 17 - OIL (G/R)	

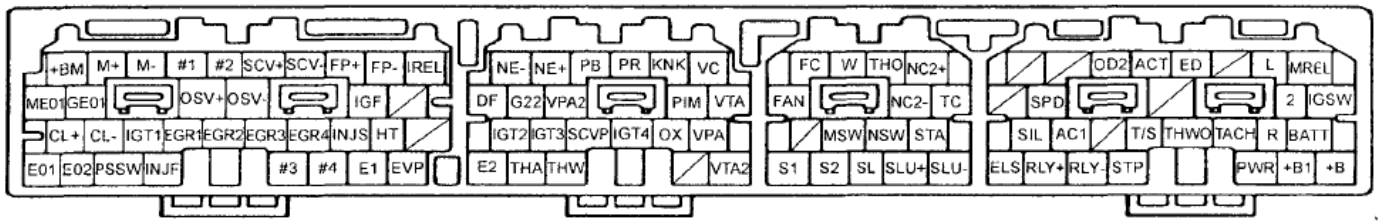
3S-GET , VVT คันเร่งสาย A/T 12 เส้น Tiptronic



3S-FSE , D4 (GDI Engine)

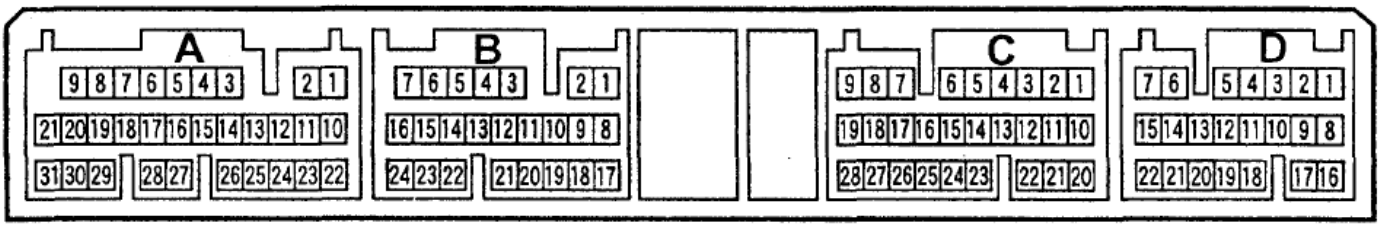


Corona ST210 c 12.1996 r.



Corona ST210 c 12.1997 r.

3S-FSE , D4 (GDI Engine)



Vista SV50 c 07.1998 r., Nadia c 08.1998 r.

D	C
1 - +B (B/R)	1 - R
2 - FAN	2 - PL
3 - ED (R) Econo Lamp	3 -
4 -	4 - ACLK
5	5 - PSSW (B)
6 - SPD	6 - SL1-
7 - FP+ (R/L)	7 - SL1+
8 - +B1 (B/R)	8 - IREL (B/L)
9 - IGSW (B/O)	9 - MREL (B/O)
10 - TAC (B/W)	10 - DL
11 - OD2 (L)	11 - 2
12 - W (Y/B)	12 - FC (G/R)
13	13 - ACMG (L/Y)
14	14 -
15 - FP- (W)	15 - SLT+
16 - BATT (B/W)	16 - SL2-
17 - EC	17 - SL2+
18 - TC	18 - NT+ (G)
19 - SIL	19 - NC+ (L)
20	20 - NL
21	21 - L
22 - STP (G/W)	22 -
	23 -
	24 - SLT-
	25 - DSL
	26 - S4
	27 - NT- (R)
	28 - NC- (Y)

B	A
1 - HT	1 -
2 - THO (G/Y)	2 -
3 - STJ	3 - SCV- (Y/R)
4 - #40 (L/W)	4 - SCV+ (Y)
5 - #30 (Y/R)	5 - E02
6 - #20 (R)	6 - E01
7 - #10 (L/B)	7 - M-
8 - STA (B)	8 - M+
9 - NE+ (B/W)	9 - +BM (R)
10 - G2 (R)	10 - EGR4
11 - OX	11 - EGR3
12 - PR (LG/R)	12 - EGR2
13 - PB (G/R)	13 - EGR1
14 - THW (W/R)	14 - IGF
15 - PIM (G/B)	15 - IGT4 (L/R)
16 -	16 - IGT3 (L/W)
17 - E1	17 - IGT2 (L/Y)
18 - NE- (L)	18 - IGT1 (L/B)
19 - E2 (BR)	19 - OCV+ (R/W)
20 - VC (Y)	20 - CL+
21 - SCVP (G/W)	21 - ME01
22 - THA (Y/G)	22 - EVP1
23 - KNK (W)	23 - VPA2
24 -	24 - VPA
	25 - VTA2
	26 - VTA
	27 - INJF
	28 -
	29 - OCV- (W/B)
	30 - CL-
	31 - GE01

1G-GE , A/T , MAP Sensor ปลั๊กเทา (89661-22270)

26 P

E01	#10	#20	ELS		STH	ISC1	ISC2	ISC3	ISC4	IGF	G1	NE
E02	#30			SS		IGT	S1	S2	S3	SP2	G2	E1

16 P

VF	TT	OX	KNK	THW	THA	PIM	VCC
G-	TE1	L	S	IDL	VTA	TE2	E2

22 P

STA	A/C	SP1	ACMG	FC	SP2	W	M REL	EGW	IGSW	BATT
NSW	P	ECT	L1	L2	L3	OD2	CCO	M	+B	+B1

1G-GTE , A/T , ปลั๊กเทา (89661-22290) Air Flow

26 P

E01	#10	#20	S1	S2	S3	ISC1	ISC2	ISC3	ISC4	IGF1	G2	NE
E02	HT	ELS	STH	STP	E21	IGT	IGD	L	S	IGF2	G1	E1

16 P

VF	TT	OX	KNK1	THW	THA	VS	VC
G-	TE1	OD2	KNK2	IDL	VTA	TE2	E2

22 P

STA	AC1	SP1	ACMG	SP2	FPR	W	M REL	EGW	IGSW	BATT
NSW	P	ECT	L1	L2	L3	TIL	CCO	M	+B	+B1

Air Intercooler - **Air Flow Sensor 22250-70170 (Y)**
Air Flow Sensor 22250-70180 (Gr)

Water Intercooler - **Air Flow Sensor 22250-70150 (Y)**

1G-GZE , DIRECT COIL 3 ชุด

10 P

E01	#10	STA	ECT	NSW
E02	#20	IGT	E1	IGD

18 P

ISC1	ISC2	G-	G1	G2	NE	ACC1	IGF1	THW
ISC3	ISC4	VF	T	PSW	IDL	ACC2	IGF2	E21

24 P

OX	WIN	M REL	TIL	PIM	SPD	FPR	THA	VS	VC	BATT	IGSW
E2	E21	HT	STH	A/C	W	EGW	KNK1	KNK2	CCO	+B	+B1



1G-GTE , ปลั๊กเหลือง , INTER น้ำ

10 P

E01	#10	STA	ECT	NSW
E02	#20	IGDA	E1	IGDB

18 P

ISC2	ISC1	G-	G1	G2	NE	ACC1	IGT	THW
ISC4	ISC3	VF	T	PSW	IDL	ACC2	IGF	E2

24 P

OX	WIN	M REL	TIL	PIM	SPD	FPR	THA	VS	VC	BATT	+B
E2	E21	HT	STH	A/C	W	EGW	KNK2	KNK1	CCO	IGSW	+B1

Neutral Position Sw.





RB (R)	B (STA)	N (NSW)	LB (L)	C (IG)
NB (N)	PB (P)	DB (D)	2B (2)	

1G-FE - 1994

26 P

E01	#10	#20	ISC1	ISC2	ISC3	ISC4		G2	NE	IGF	S1	SL
E02		HT				IGT		G1	G-	EVP	S2	E1

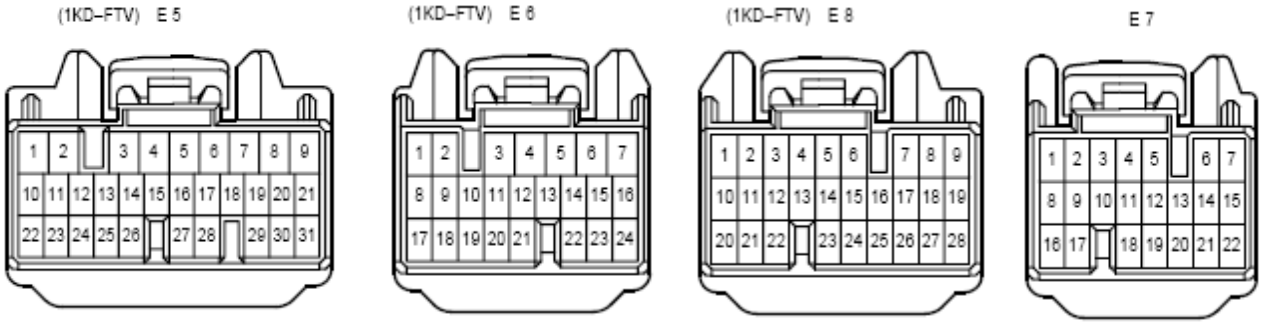
16 P

VF	TT	OX	KNK	THW	THA	PIM	VC
L	TE1	TE2		IDL	VTA	2	E2

22P

STA	A/C	SP1	ACMG	OD2	ELS	W	M REL	EGW	IGSW	BATT
NSW	P	SNWO	PWR	MANU	SNW1	FC	CCO	STP		+B

1G-FE , VVT(89661-3A564) ปลั๊กขาว



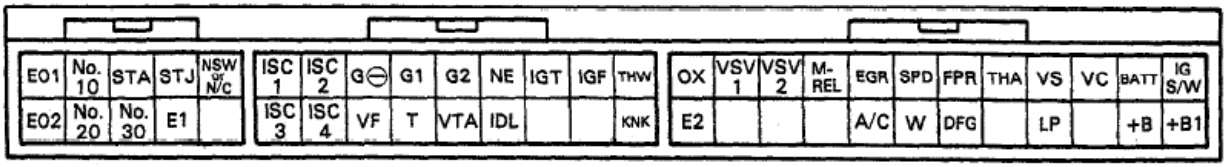
E 4 (31 P) **E 5 (24 P)** **E 6 (28 P)** **E 7 (22 P)**

หน้าปลั๊ก

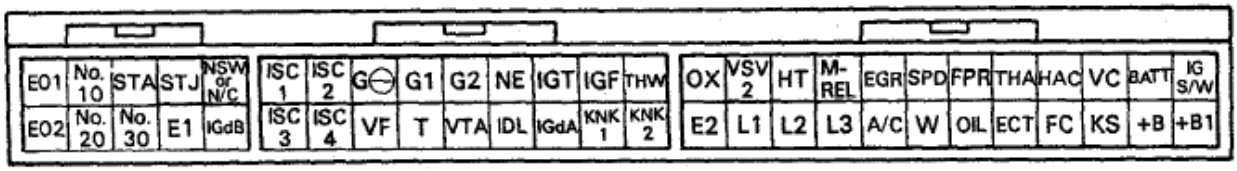
E 4 (31 P)	E 5 (24 P)
1 - # 30 (L) 2 - # 40 (R) 3 - # 50 (W) 4 - # 60 (R/L) 5 6 - RSO 7 - S1 8 - S2 9 - * 10 11 - IGT1 (G/B) 12 - IGT2 (P) 13 - IGT3 (L/B) 14 - IGT4 (P/L) 15 - IGT5 (R/W) 16 - IGT6 (LG) 17 - VVT + (W/R) 18 - VVT - (Y/B) 19 - 20 - 21 - E01 (W/B) 22 - NE - (G) 23 - NE + (R) 24 - * 25 - IGF (Y/G) 26 - 27 - KNK2 28 - KNK1 29 - 30 - 31 - E02 (W/B)	1 - * 2 - VC (L) 3 - HT1 (R/Y) 4 - HT2 (LG) 5 - # 10 (Y) 6 - # 20 (B/R) 7 - VSV (P/L) 8 9 - PIM 10 - NCO- 11 - NCO+ 12 - OX1 (B) 13 - OX2 (W) 14 - THW (Y/B) 15 - SP2- 16 - SP2+ 17 - E1 (BR) 18 - E2 (BR) 19 - R 20 - 2 21 - L 22 - 23 - VTA (Y/R) 24 - *

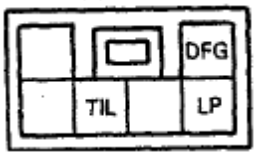
E 6 (28 P)	E 7 (22 P)
1 - AC1	1 - BATT
2 - STA	2 -
3 - THWO	3 -
4 - AC2	4
5 - TE1	5
6 - STP	6
7 - NSW	7 -
8 -	8 - + B
9 - OD2	9 - FC
10 -	10
11	11
12 - PWR	12 -
13 - ACMG	13
14 -	14
15 - ELS3	15 - TACH
16 - ELS2	16 - + B
17 - ELS	17
18	18 -
19	19 -
20	20
21	21
22 -	22
23 -	
24 -	
25	
26	
27 -	
28 -	

7M-GE

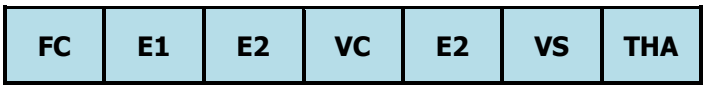


7M-GTE



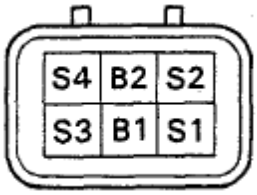


Air Flow Sensor





Idle Speed Control



Inhibitor Sw.

STA (B)			NSW (B/W)	
L (LG)				P (L/R)
2 (LG/R	D (L/B)	N (L/Y)	IG (R/L)	R (R/B)

A/T Solenoid

S1 (V)	SL (L/Y)	S2 (BR/V)

Distributor

G1 (G)	NE- (W)	IGT (B)
G- (R)	NE- (B)	IGF (B/Y)

1NZ-FE , YARIS Verso – Alt 3 เส้น , A/T 8 เส้น

E3 (A) - 26 P

E01 (BR)	#10 (B/O)	#20 (B/Y)	OCV+ (R/W)	EVP (W/G)	FAN (W/L)	SEL (V)	STP (G/W)	D (R/Y)	ALT (L)	IGF (Y)	RSD (B/R)	E03 (BR)
E02 (BR)	#30 (B/W)	#40 (B/L)	OCV- (R/B)	IGT1 (G/R)	IGT2 (G/B)	IGT3 (G/O)	IGT4 (G/Y)	G2 (D)	NE+ (O)	NE- (W)	E1 (BR)	E1 (BR)

E4 (B) - 16 P

HT1 (B/O)	MHSW (L/B)	OX1A (W)	OX1B (B)	THW (R/L)	THA (Y/B)	VG (P)	VC (R/W)
HT2 (W)	TC (P/B)	E1 (W/B)	KNK (W)	PSP (Y)	VTA (Y/R)	EVG (V)	E2 (BR)

E5 (C) - 12 P

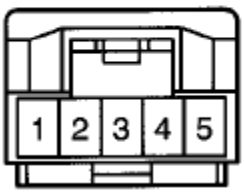
SL (G)	NT+ (R)	OD2 (G/O)	S1 (W/G)	ST (B/W)	SLT+ (W/L)
KD (G/W)	NT- (B)	OIL (Y)	S2 (W/R)		SLT- (W)

E6 (D) - 22 P

STA (B/Y)	AC1 (B/W)	SPD (LG/R)	TAC (LG/B)	KSW (Y)	IMLD (W)	W (R/Y)	RXCK (L)	TXCT (L/B)	MREL (GR)	BATT (R)
NSW (B)	ACT (W/R)	ELS (L/W)	L (G/B)	2 (Y/G)	R (R/W)	SIL (V)	CODE (Y/B)	FC (G/R)	IGSW (B/R)	+B (B/R)

Transponder Key Amplifier (IMO)

T4

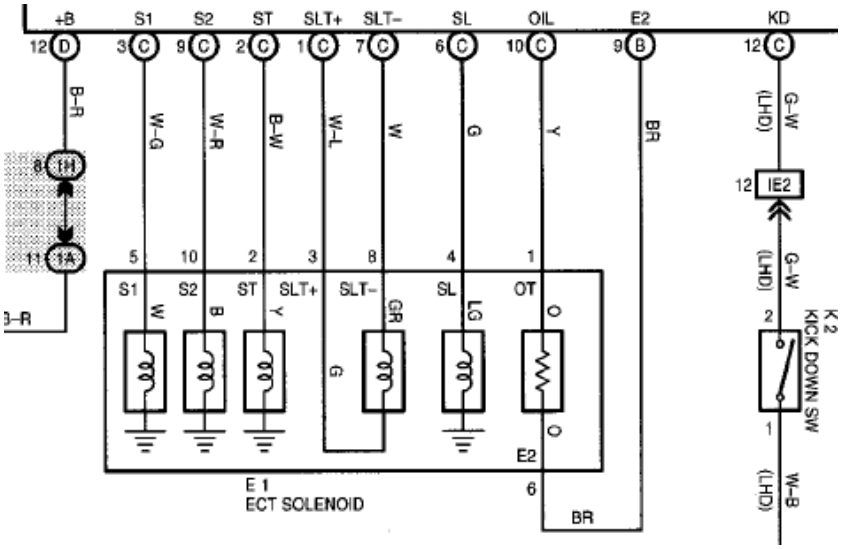


TCXT	CODE	E1	RXCK	+B

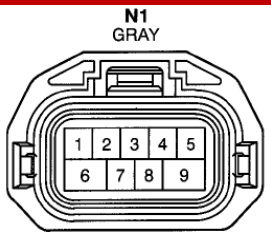
A/T Sol. 8 เส้น



OIL	ST	SLT+	SL	S1
E2	*	SLT-	*	S2



Neutral Start Switch



P (R)	R (R/W)	IG (R/B)	2 (G)	N (GR)
STA (B/Y)	D (R/Y)	L (G/W)	NSW (B)	

1NZ-FE – NZE121 - Alt 4 เส้น , A/T 9 เส้น

E3 (F) - 26 P

E01 (W/B)	#10 (Y)	#20 (B)	OCV+ (Y)	EVP (L/B)	FAN (LG/B)	CF (LG)	STP (G/W)		ALT M (R/B)	IGF (L/Y)	RSO (B/L)	ACLD (G/W)
E02 (W/B)	#30 (W)	#40 (L)	OCV- (B/Y)	IGT1 (R/L)	IGT2 (Y/G)	IGT3 (GR)	IGT4 (W)	G2 (B)	NE+ (B)	NE- (W)	E1 (BR)	E1 (BR)

E4 (G) - 16 P

HT1 (P)	F/PS (Y)	OX1A (R)		THW (W)	THA (Y/B)	VG (G)	VC (Y)
	TC (P/B)	THR (Y)	KNK (B)	PSP (L/R)	VTA (LG)	EVG (L/W)	E2 (BR)

E5 (F) - 12 P

SLU+ (O)	NT+ (R)	ODMS (LG/R)	S1 (R/Y)	ST (L/O)	SLT+ (R/W)
SLU- (R)	NT- (B)	OIL (W/L)	S2 (L)	D (L/B)	SLT- (P)

E6 (I) - 22 P

STA (B/W)	AC1 (Y/B)	SPD (V/W)	TAC (B)	ODLP (LG)	ELS1 (G)	W (R/Y)	ELS2 (W/R)	ACMG (Y/R)	ELS3 (L/Y)	BATT (R/W)
NSW (B/R)	ALT C (B/Y)	WFSE (Y)	L (LG/B)	2 (LG/R)	R (R/B)	SIL (L/R)	THWO (Y/R)	FC (G/R)	PRS (Y/B)	+B (B)

1NZ-FE , 2NZ-FE - BB NCP31 (89661-52800) , Funcargo
Alt 3 เส้น - A/T 9 เส้น

E3 (A) - 26 P

E01 (BR)	#10 (B/O)	#20 (B/Y)	OCV+ (R/W)	EVP (W/G)	FAN H (W/L)	FAN L (Y/R)	STP (G/W)	D (R/Y)	ALT (L)	IGF (Y)	RSD (B/R)	*
E02 (BR)	#30 (B/W)	#40 (B/L)	OCV- (R/B)	IGT1 (G/R)	IGT2 (G/B)	IGT3 (G/O)	IGT4 (G/Y)	G2 (B)	NE+ (O)	NE- (W)	E1 (BR)	E1 (BR)

E4 (B) - 16 P

HT (B/R)	MHSW (L/B)	OX (W)	*	THW (R/L)	THA (Y/B)	VG (P)	VC (R/W)
*	TC (P/B)	THR (B/W)	KNK (W)	PSP (Y)	VTA (Y/R)	EVG (V)	E2 (BR)

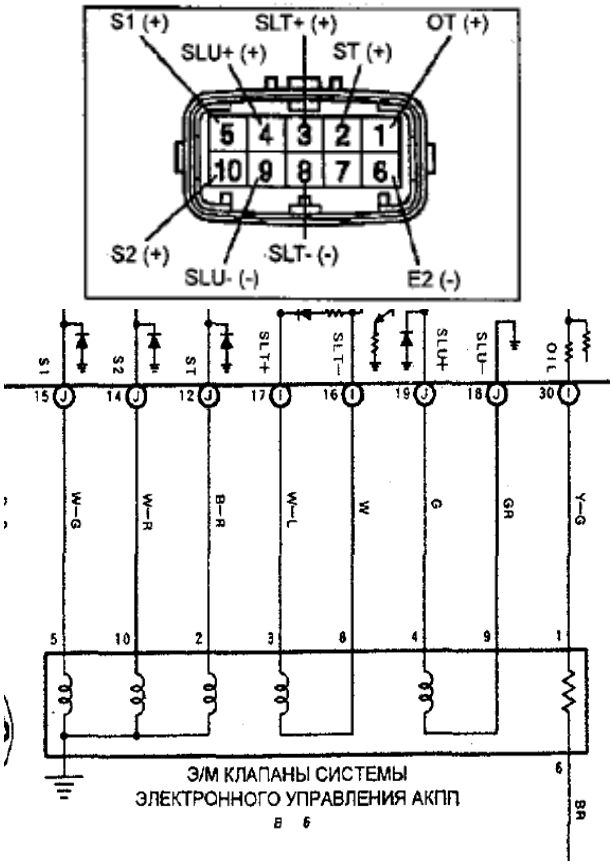
E5 (C) - 12 P

SLU+ (G)	NT+ (R)	OD2 (G/O)	S1 (W/G)	ST (B/W)	SLT+ (W/L)
SLU- (GR)	NT- (B)	OIL (Y)	S2 (W/R)	*	SLT- (W)

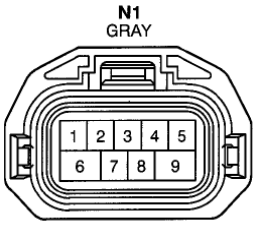
E6 (D) - 22 P

STA (B/Y)	AC1 (B/R)	SPD (LG/R)	TAC (LG/B)	PRS (B/L)	HOT (Y/R)	W (R/Y)	*	ACMG (Y/B)	COOL (L)	BATT (R)
NSW (B)	SEL	ELS (L/W)	L (G/B)	2 (Y/G)	R (R/W)	SIL (V)	*	FC (G/R)	*	+B (B/R)

A/T Solenoid 9 เส้น

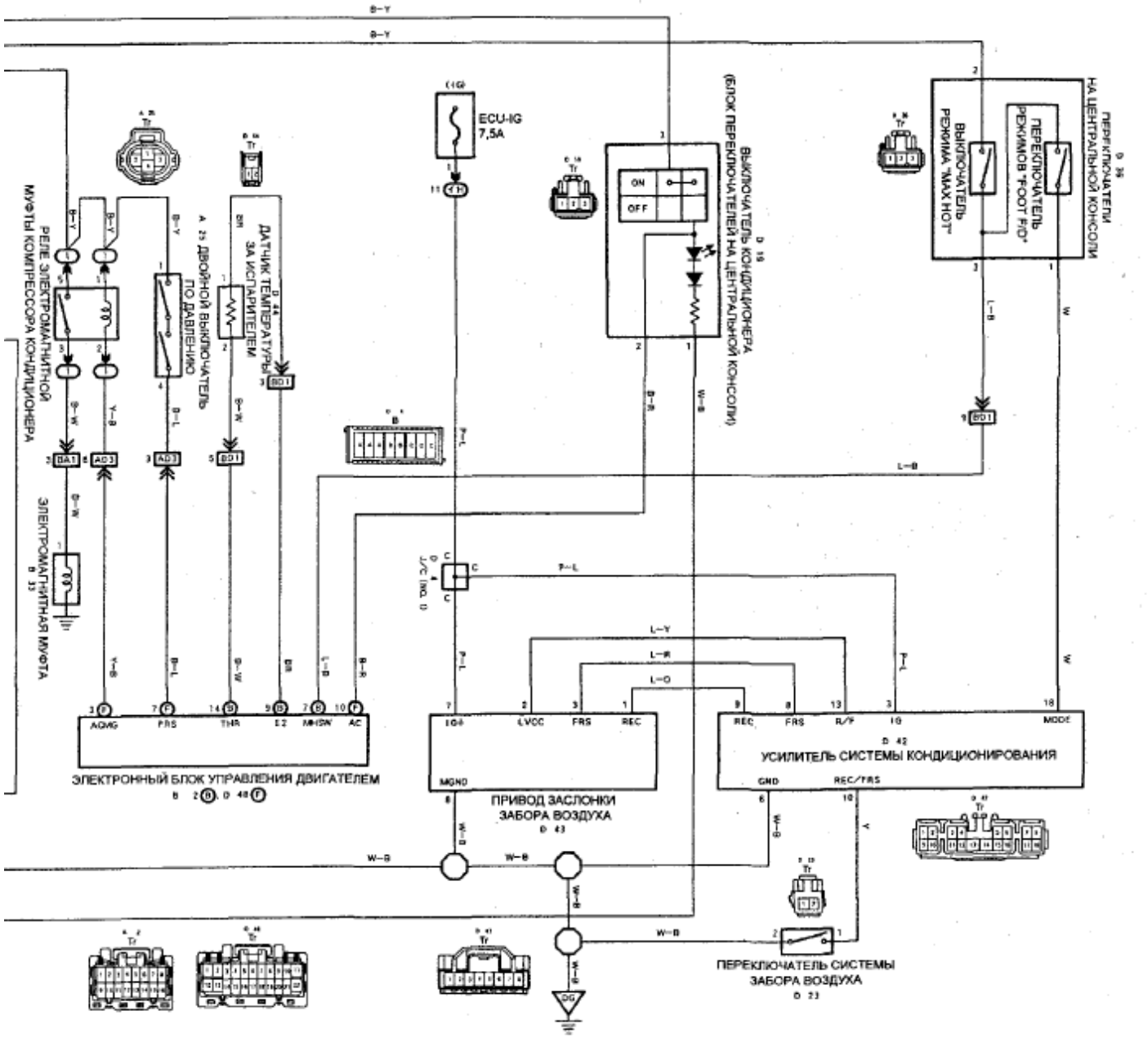


A/T Position Sw.

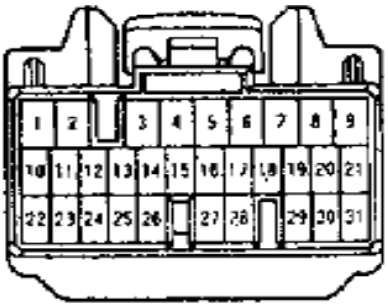


P (R)	R (R/W)	IG (R/B)	2 (G)	N (GR)
STA (B/Y)	D (R/Y)	L (G/W)	NSW (B)	

A/C System

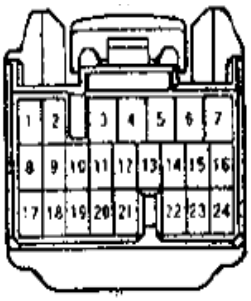

ECU-IG
7,5A
ON
OFF
ВЫКЛЮЧАТЕЛЬ КОНДИЦИОНЕРА
(БЛОК ПЕРЕКЛЮЧАТЕЛЕЙ НА ЦЕНТРАЛЬНОЙ КОНСОЛИ)
ВЫКЛЮЧАТЕЛЬ РЕЖИМА "MAX HOT"
ПЕРЕКЛЮЧАТЕЛЬ РЕЖИМОВ "FOOT F/D"
ПЕРЕКЛЮЧАТЕЛИ НА ЦЕНТРАЛЬНОЙ КОНСОЛИ
РЕЛЕ ЭЛЕКТРОМАГНИТНОЙ МУФТЫ КОМПРЕССОРА КОНДИЦИОНЕРА
ЭЛЕКТРОМАГНИТНАЯ МУФТА
ДАТЧИК ТЕМПЕРАТУРЫ ЗА ИСПАРИТЕЛЕМ
ДВОЙНОЙ ВЫКЛЮЧАТЕЛЬ ПО ДАВЛЕНИЮ
ЭЛЕКТРОННЫЙ БЛОК УПРАВЛЕНИЯ ДВИГАТЕЛЕМ
ПРИВОД ЗАСЛОНКИ ЗАБОРА ВОЗДУХА
УСИЛИТЕЛЬ СИСТЕМЫ КОНДИЦИОНИРОВАНИЯ
ПЕРЕКЛЮЧАТЕЛЬ СИСТЕМЫ ЗАБОРА ВОЗДУХА
AQVG
FRS
THA
E2
MHSW
AC
IGF
LVCC
REC
GND
REC/FRS
R/F
IG
MODE
MGND

1NZ-FE , 2NZ-FE , Funcargo (NCP20) ปี 2002
Alt 3 เส้น , A/T +- 10 เส้น



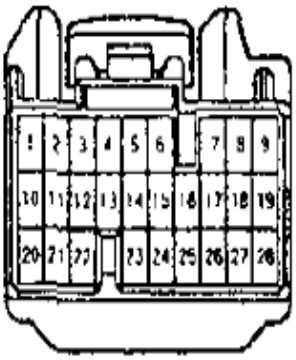
(D) 31 P – หน้าปลั๊ก

E1 (BR)	E1 (BR)			RSC (B/R)		#40 (B/L)	#30 (B/W)	#20 (B/Y)	#10 (B/O)	
	IGF (Y)	ALT (Y)				FAN L (Y/R)	FAN H (W/L)		EVP (W/G)	OCV+ (R/W)	E01 (BR)
	NE- (W)	NE+ (O)	G2 (B)	IGT4 (G/Y)		IGT3 (G/O)	IGT2 (G/B)		IGT1 (G/R)	OCV- (R/B)	E02 (BR)



(E) 24 P – หน้าปลั๊ก

						HT (B/R)		
	VC (R/W)	VG (P)	THA (Y/B)	THW (R/L)			OX (W)	D (R/Y)
	E2 (BR)	EVG (V)	VTA (Y/R)	PSP (Y)			OIL (Y)	



(H) 28 P – หน้าปลั๊ก

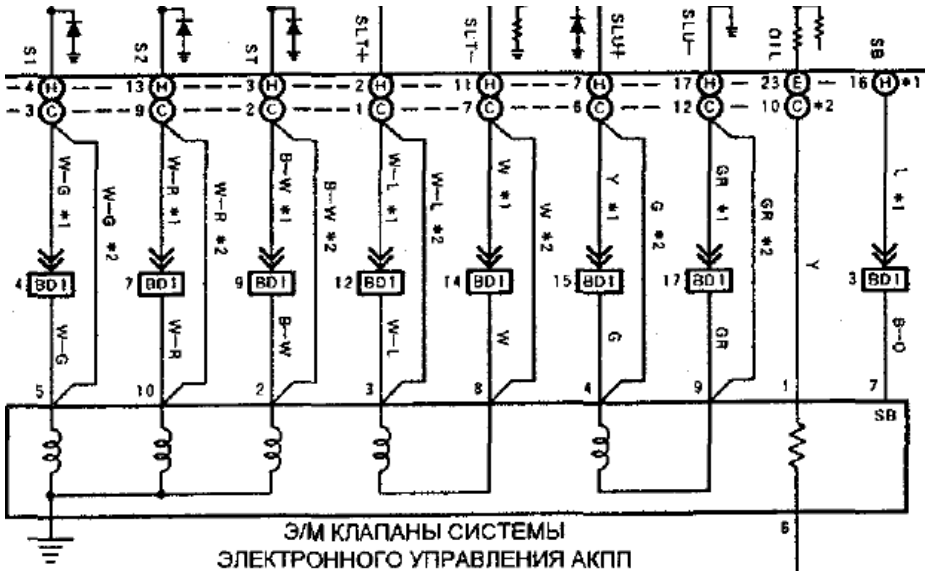
SFTU (L/W)	SLT+ (W/L)	ST (B/W)	S1 (W/G)	OD2 (G/O)	NT+ (R)		SLU+ (Y)	IP1B (R/L)	IP0B (R/G)
SFTD (L/B)	SLT- (W)		S2 (W/R)	THR (R/W)	NT- (LG)	SB (L)	SLU- (GR)		IP2B (R/L)
NSW (B)	DLP (G/Y)	RJT (R/B)		R (R/W)	2 (Y/G)	L (G/B)	STP (G/W)	SPT (L/R)	SPTL (G/R)

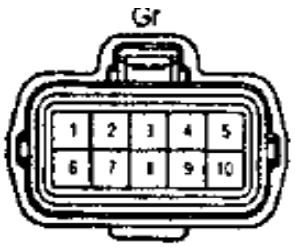


(G) 22 P – หน้าปลั๊ก

BATT (R)	ACMG (Y/B)		W (Y/R)	PRS (B/L)		A/C (B/R)	STA (B/Y)
+B (B/R)	COOL (L)		SIL (V)		TACH (LG/B)		MHSW (L/B)
	FC (G/R)			HOT (Y/R)		SPD (LG/R)	TC (P/B)

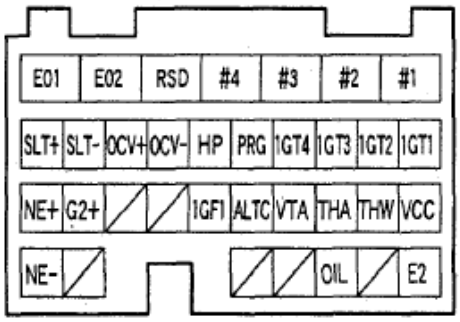
A/T Solenoid 10 เส้น

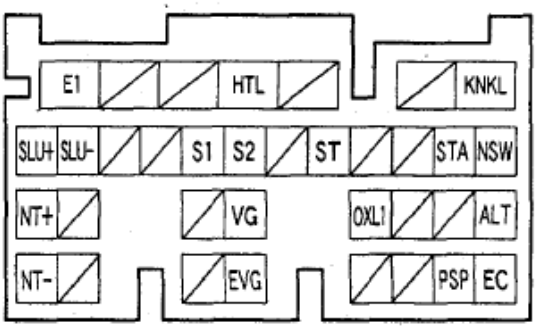




1NZ-FE , Funcargo NCP20 (89661-52130) ปี 2002
Alt 4 เส้น , A/T 9 เส้น

หลังปลั๊ก





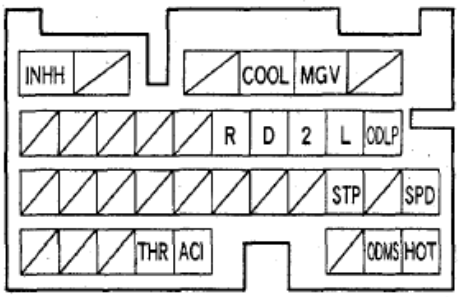
E 5 (I)

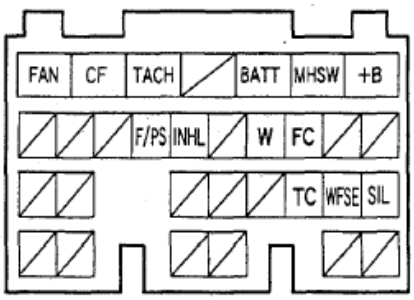
1 - #10 (B/O)
2 - #20 (B/Y)
3 - #30 (B/W)
4 - #40 (B/L)
5 - RSD (B/R)
6 - E02 (BR)
7 - E01 (BR)
8 - IGT1 (G/R)
9 - IGT2 (G/B)
10 - IGT3 (G/O)
11 - IGT4 (G/Y)
12 - PRG , EVAP (W/G)
13 - HP , A/C dual pressure sw. (B/R) , -
14 - OCV- (R/B)
15 - OCV+ (R/Y)
16 - SLT- (W)
17 - SLT+ (W/L)
18 - VC (R/W)
19 - THW (R/L)
20 - THA (Y/B)
21 - VTA (Y/R)
22 - ALT , C (L/W)
23 - IGF (Y)
24
25
26 - G2 (B)
27 - NE+ (O)
28 - E2 (BR)
29
30 - OIL (Y/G)
31
32
33
34 - NE- (W)
35

E 6 (J)

1 - KNK (W)
2
3
4 - HTL (B/R)
5 - E03 (BR)
6
7 - E1 (BR)
8 - NSW (B)
9 - STA (B/Y)
10
11
12 - ST (B/R)
13 - SL (G)
14 - S2 (W/R)
15 - S1 (W/G)
16
17
18 - SLU- (GR)
19 - SLU+ (G)
20 - ALT , M (L)
21 - OXL2 (B)
22
23 - OXL1 (W)
24 - VG (P)
25
26
27 - NT+ (R)
28 - EC (BR)
29 - PSP , PSST pressure sen. (Y)
30
31
32 - EVG (V)
33
34
35 - NT- (B)

หลังปลั๊ก





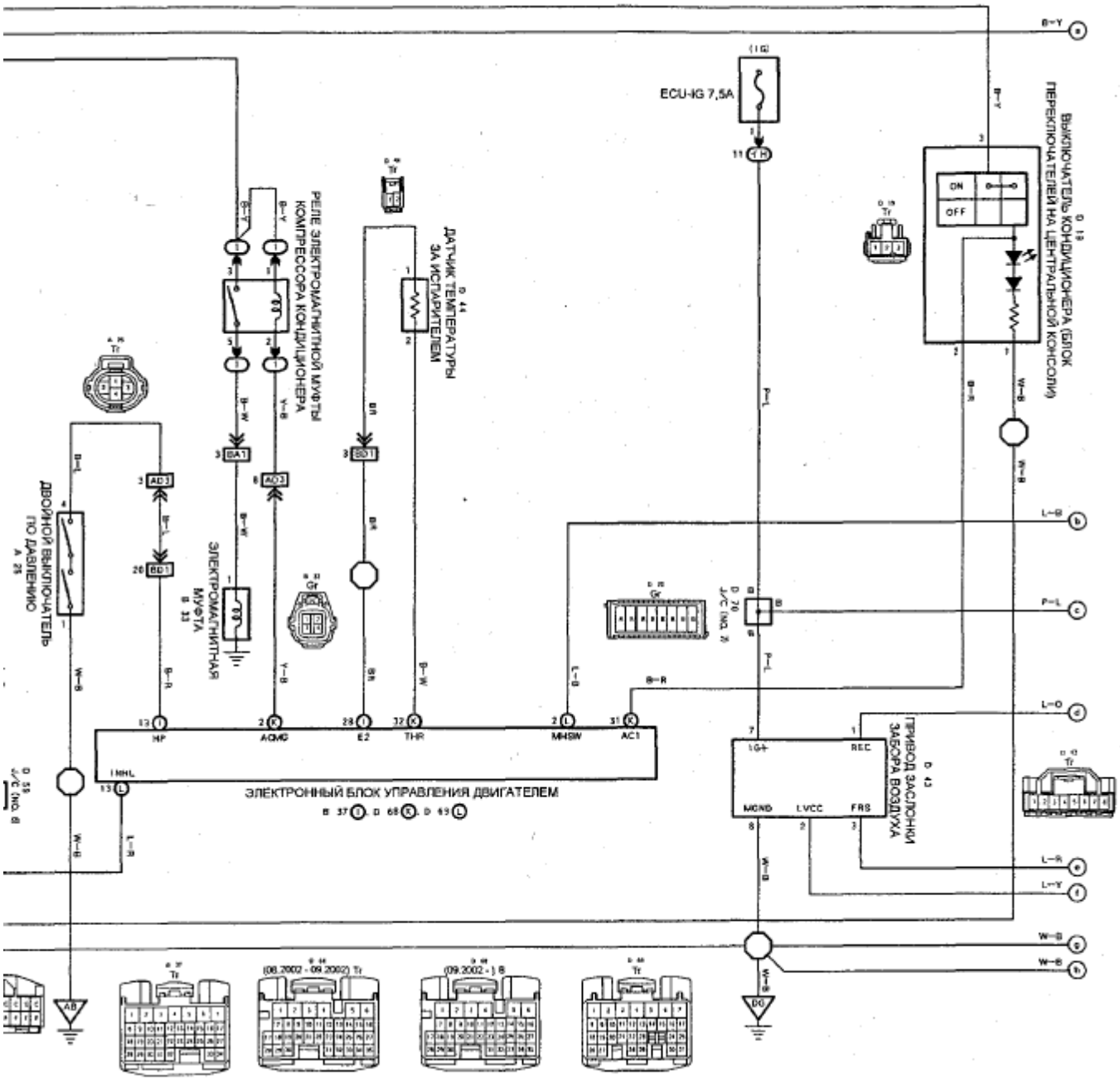
E 3 (K)

1 -
2 - ACMG (Y/B)
3 - COOL (L)
4 - HTL2 (W/L)
5
6 - INHH (B/W)
7 - ODLP (G/Y)
8 - L (G/B)
9 - 2 (Y/G)
10 - D (R/Y)
11 - R (R/W)
12
13
14
15
16
17 - SPD (V/W)
18
19 - STP (G/W)
20
21
22 - RDEF , a/c sw. (B/Y) , +
23
24
25
26
27
28 - HOT (Y/R)
29 - ODMS (G/O) , -
30
31 - AC Sw. (B/R) , +
32 - THR , A/C thermistor (B/W)
33
34
35

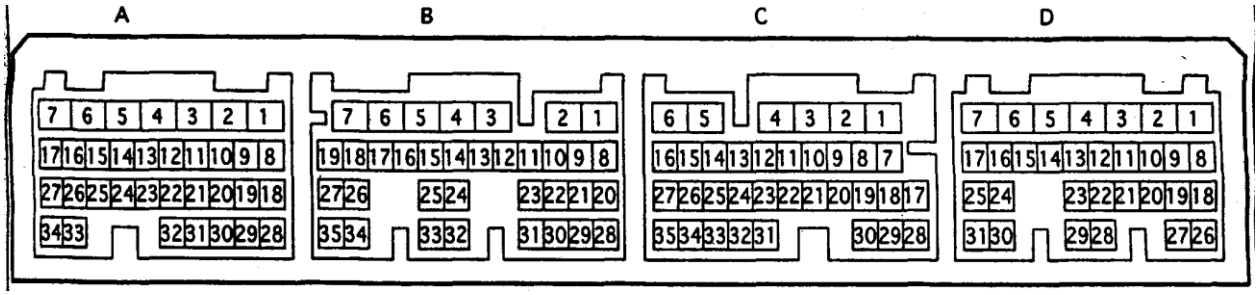
E 4 (L)

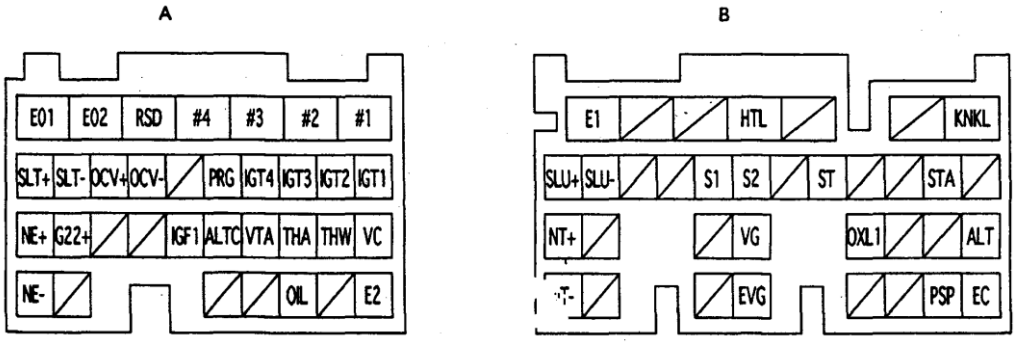
1 - +B (B/R)
2 - MHSW (L/B) , +
3 - BATT (R)
4
5 - TACH (LG/B)
6 - CF , Fan No.1 (Y/R)
7 - FAN No.2 (W/L)
8 - MREL (GR)
9 - IGSW (B/R)
10 - FC (G/R)
11 - W (R/Y)
12 - ELS (L/W)
13 - INHL (L/R)
14 - F/PS (B)
15
16
17 - NEO (R/Y)
18 - SIL (V)
19 - WFSE (P)
20 - TC (P/B)
21 - PTNK (B)
22
23
24 - ENG+ (B/W)
25 - TRC+ (R/W)
26
27
28
29
30 - ENG- (L)
31 - TRC- (W)
32
33
34
35

A/C System


ECU-IG 7,5A
ВЫКЛЮЧАТЕЛЬ КОНДИЦИОНЕРА (БЛОК ПЕРЕКЛЮЧАТЕЛЕЙ НА ЦЕНТРАЛЬНОЙ КОНСОЛИ)
ON
OFF
РЕЛЕ ЭЛЕКТРОМАГНИТНОЙ МУФТЫ КОМПРЕССОРА КОНДИЦИОНЕРА
ДАТЧИК ТЕМПЕРАТУРЫ ЗА ИСПАРИТЕЛЕМ
ДВОЙНОЙ ВЫКЛЮЧАТЕЛЬ ПО ДАВЛЕНИЮ
ЭЛЕКТРОМАГНИТНАЯ МУФТА
HP
A/CMG
E2
THR
MHSW
A/C1
ЭЛЕКТРОННЫЙ БЛОК УПРАВЛЕНИЯ ДВИГАТЕЛЕМ
ПРИВОД ЗАСЛОНКИ ЗАБОРА ВОЗДУХА
REC
MGND
LVCC
FRS

1NZ-FE , Allion-Premio 2002 – คันเร่งสาย





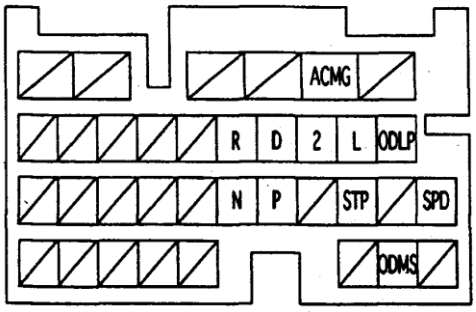
A – 34 P (หน้า)

1 - #10 (R)
2 - #20 (W/R)
3 - #30 (R/W)
4 - #40 (W/L)
5 - RSO (G/R)
6 - E01 (W/B)
7 - E02 (W/B)
8 - IGT1 (Y)
9 - IGT2 (G)
10 - IGT3 (G/B)
11 - IGT4 (B/O)
12 - PRG (L/R)
13
14 - OCV- (B/Y)
15 - OCV+ (W/G)
16 - SLT- (R/L)
17 - SLT+ (R/B)
18 - VC (L)
19 - THW (B/W)
20 - THA (GR)
21 - VTA (G/W)
22 - ALTC , Alternator ขั้ว C (B/R)
23 - IGF (R/Y)
24
25
26 - G2+ (O)
27 - NE+ (B)
28 - E2 (BR)
29
30 - THO (Y/G)
31
32
33
34 - NE- (W)

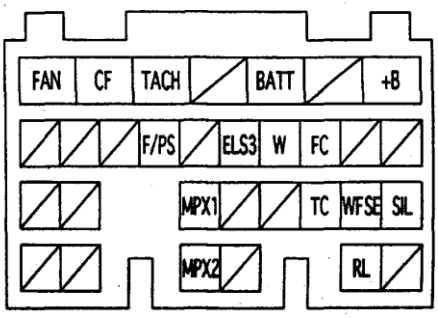
B – 35 P (หน้า)

1 - KNK (W)
2
3
4 - HT (Y/B)
5
6
7 - E1 (BR)
8
9 - STA (GR)
10
11
12 - ST (L/B)
13
14 - S2 (G/Y)
15 - S1 (G/B)
16
17
18 - SLU- (L/R)
19 - SLU+ (G/W)
20 - ALT , Alternator ขั้ว M (L)
21
22
23 - OX (B)
24 - VG (G)
25
26
27 - NT+ (Y/G)
28 - EC (W/B)
29 - PSP , Power Steering Pressure Sen. (B/Y)
30
31
32 - EVG (L/Y)
33
34
35 - NT- (Y)

C



D



C – 35 P หน้า

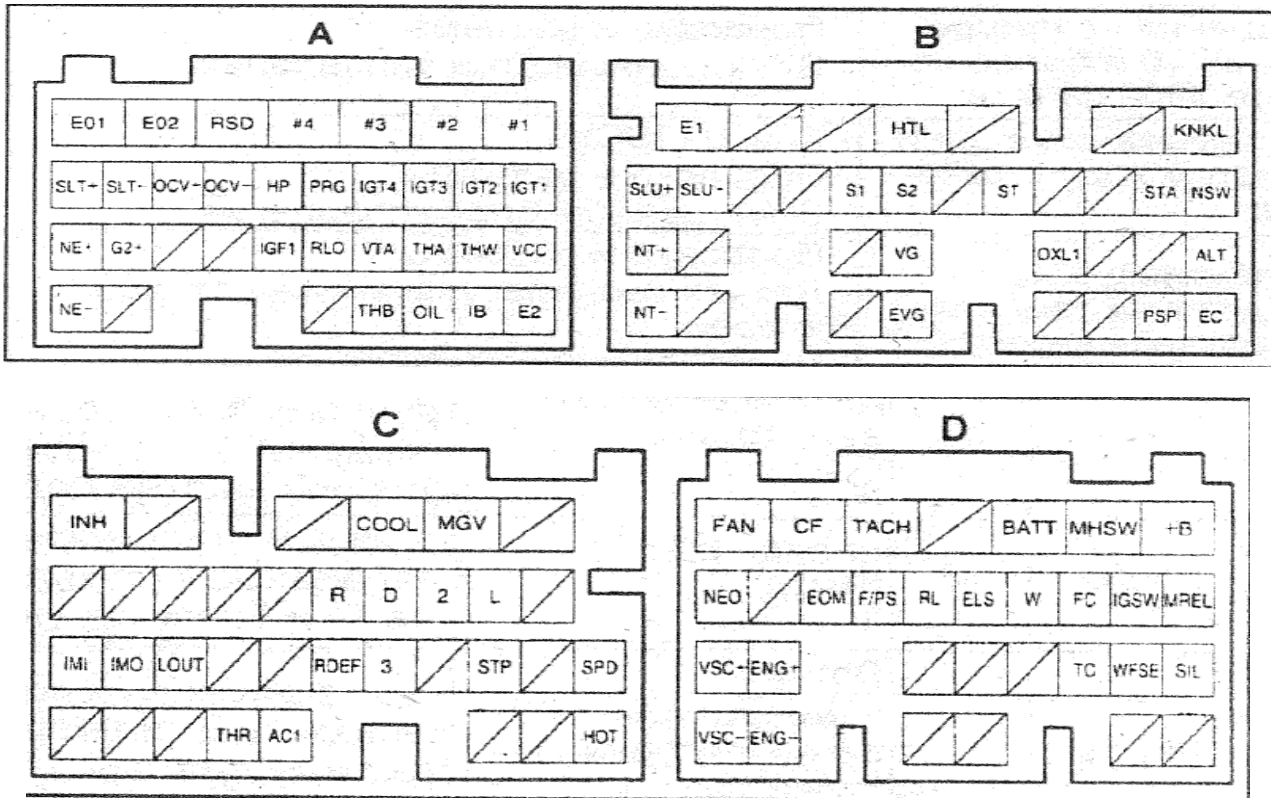
1 -
2 - ACMG (G/R)
3
4
5
6
7 - ODLP (W/G)
8 - L (Y)
9 - 2 (G/Y)
10 - D (L/W)
11 - R (R/B)
12
13
14
15
16
17 - SPD (Y/G)
18
19 - STP (G/W)
20
21 - P (R/L)
22 - N (V)
23
24
25
26
27
28
29 - ODMS (GR) , -
30
31
32
33
34
35

D – 31 P หน้า

1 - +B (R/L)
2
3 - BATT (B/Y)
4
5 - TACH (B/W)
6 - CF (G/B)
7 - FAN (G/W)
8
9
10 - FC (W/G)
11 - W (G)
12 - ELS (R)
13
14 - F/PS (B)
15
16
17
18 - SIL (W)
19 - WFSE (R/Y)
20 - TC (P/B)
21
22
23 - MPX1 (G/R)
24
25
26
27 - RL , Alternator ขั้ว L (G/Y)
28
29 - MPX2 (R/W)
30
31

1NZ-FE , Ruams 2003

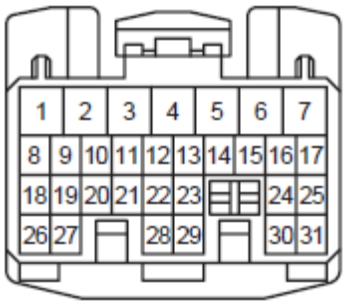
หลังปลั๊ก



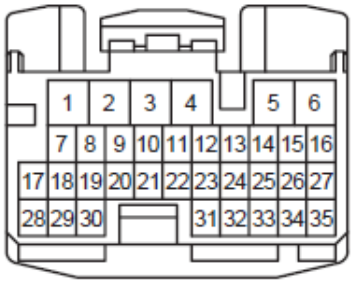
1NZ-FE , Scion 2007 (ANT10) , คันเร่งไฟฟ้า , A/T 10 เส้น

E 4(A), E 5(B), E 7(C), E 8(D)
Engine Control Module

E 4

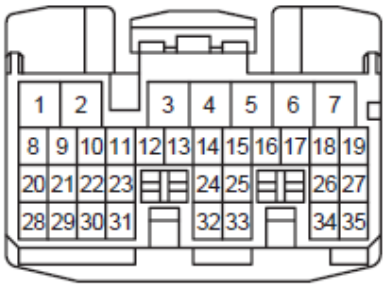


E 5

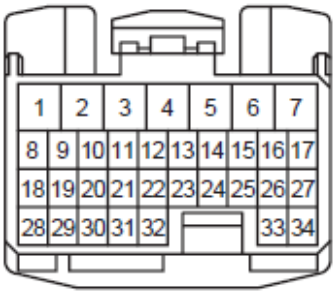


E 4 (A) – 31 P หน้า		E 5 (B) – 35 P หน้า	
1	+B (GR)	1	TACH (B)
2	+B (O)	2	
3	BATT (V)	3	ELS3 (O)
4		4	STP (L)
5	VPMP (G)	5	
6	MPMP (L)	6	
7	+BM (BR)	7	
8	MREL (O)	8	SPD (V)
9	IGSW (G)	9	L (LG)
10		10	2 (R)
11		11	R (P)
12	STA (B)	12	
13		13	
14	FAN HI (GR)	14	THWO (R)
15	ELS1 (B)	15	IMO (GR)
16	ST1- (L)	16	IMI (O)
17		17	TC (W)
18	VPA (W)	18	
19	VPA2 (V)	19	3 (G)
20	EPA (BR)	20	
21	EPA2 (R)	21	D (W)
22		22	
23		23	
24		24	AC1 (P)
25	FC (L)	25	ACT (LG)
26	VCPA (L)	26	
27	VCP2 (P)	27	
28		28	
29	EOM (W/B)	29	
30		30	W (G)
31	PPMP (LG)	31	
32		32	F/PS (Y) , SRS System
33		33	CAN H (B)
34		34	CAN L (W)
		35	

E 7



E 8



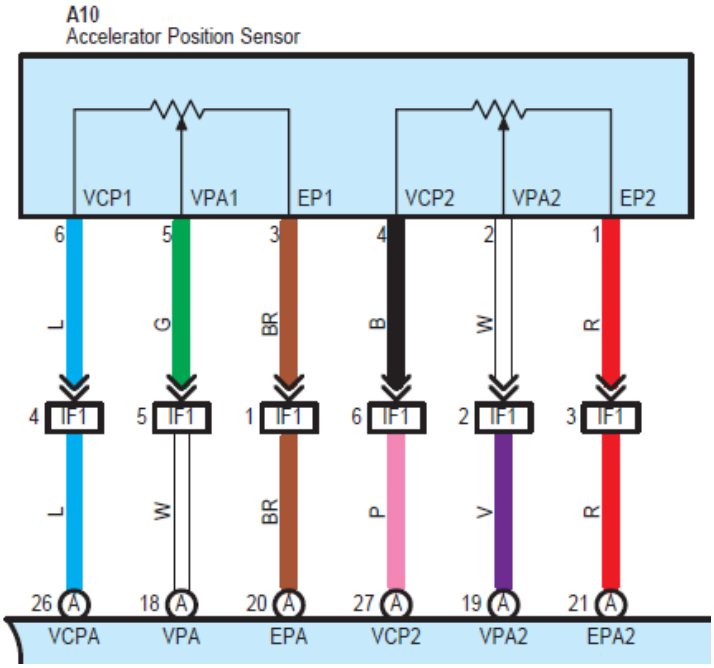
E 7 (C) – 35 P หน้า

1 - #40 (W)
2 - #30 (Y)
3
4 - E03 (BR)
5 - #20 (R)
6 - #10 (L)
7 - E04 (W/B)
8 - S4 (V)
9 - DSL (Y)
10 - SL1- (P)
11 - SL1+ (B)
12 - SLT+ (BR)
13 - SLT- (GR)
14 - SL2+ (LG)
15 - SL2- (V)
16
17
18
19
20
21
22
23 - PRG (R)
24 - THO (G)
25
26 - NC- (G)
27 - NT- (LG)
28 - VG (R)
29 - THA (L)
30 - E2G (W)
31
32 - PSST (R),-
33
34 - NC+ (R)
35 - NT+ (L)

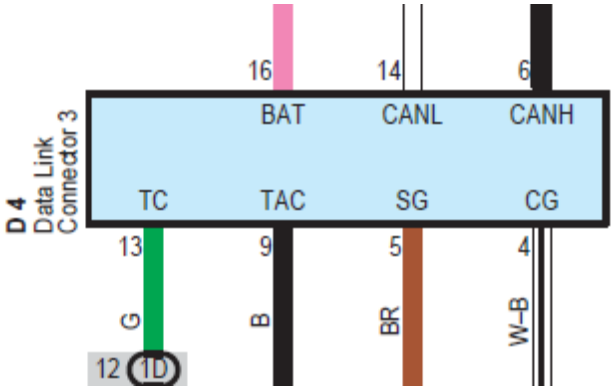
E 8 (D) – 34 P หน้า

1 - HA1A (G)
2 - HT1B (L)
3 - E1 (L)
4 - M- (W)
5 - M+ (B)
6 - E02 (P)
7 - E01 (B)
8 - GE01
9
10 - ALT (Y),M
11
12 - OC1- (W)
13 - OC1+ (Y)
14 - IGT4 (LG)
15 - IGT3 (B)
16 - IGT2 (P)
17 - IGT1 (G)
18 - VC (V)
19 - VTA2 (BR)
20 - VTA1 (LG)
21 - A1A+ (O)
22
23 - IGF (V)
24
25 - OX1B (B)
26 - G2+ (P)
27 - NE+ (R)
28 - E2 (R)
29 - KNK1 (R)
30 - EKNK (G)
31 - A1A- (W)
32 - THW (G)
33
34 - NE- (G)

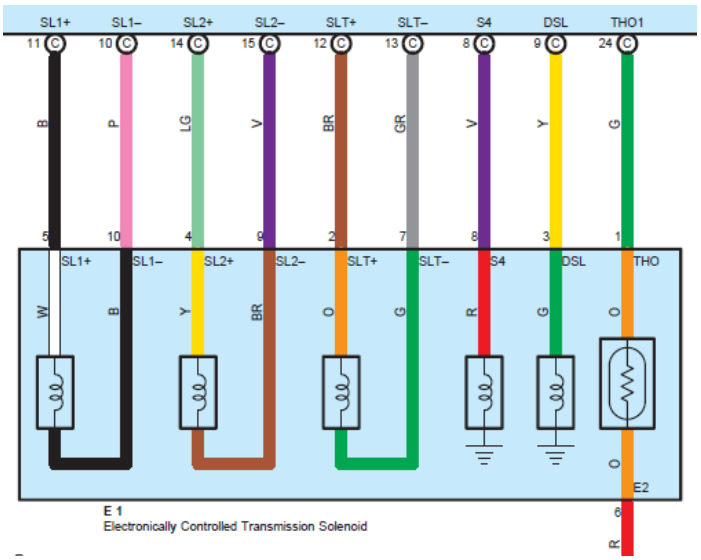
Accelerator Pedal Sen.



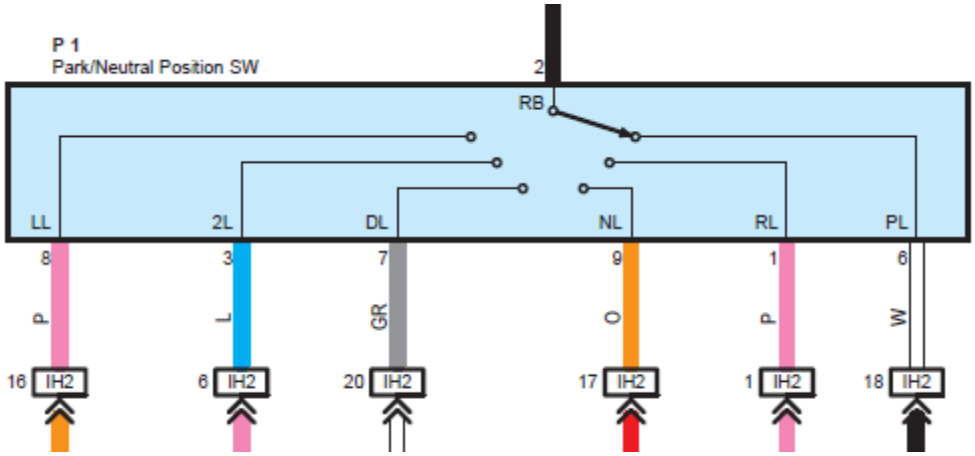
DLC3

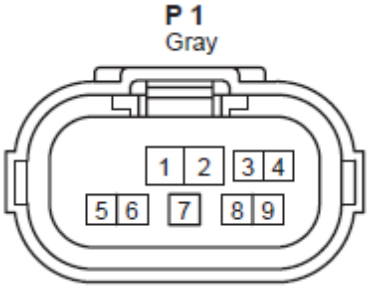


A/T Solenoid



Neutral Position Sw.

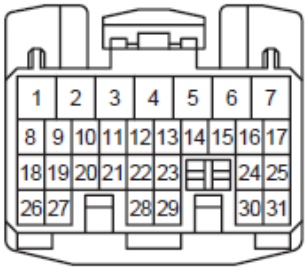




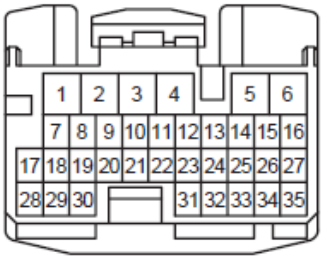
1NZ-FE , NZE121 (89661-12A70) คันเร่งไฟฟ้า A/T 9 เส้น , กล่องพลาสติก

E 4(A), E 5(B), E 7(C), E 8(D)
Engine Control Module

E 4



E 5



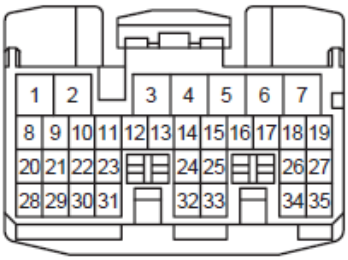
E 4 (P) – 31 P หน้า

1 - +B (B)
2 - +B (L)
3 - BATT (W/R)
4
5
6
7 - +BM (B)
8 - MREL (B/W)
9 - IGSW (B/O)
10
11
12 - STA (B/W) , +
13
14 - FAN H (LG/B)
15 - ELS1 (L/O)
16 - ST1- (G/W)
17
18 - VPA1 (G)
19 - VPA2 (R)
20 - EPA (Y)
21 - EPA2 (L)
22 - EC (W/B)
23
24
25 - FC (G/R)
26 - VCPA (W)
27 - VCP2 (B)
28
29
30 - NSW (B/R) , -
31

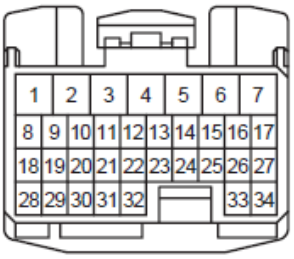
E 5 (O) – 35 P หน้า

1 - TACH (B)
2 - ELS2 (G)
3 - ELS3 (W/R)
4 - STP (G/W)
5
6 - ODSW (LG) , -
7 - ODLP(LG) , Lamp
8 - SPD (V/W)
9 - L (LG/B)
10 - 2 (LG/R)
11 - R (R/B)
12
13 - SIL (L/R)
14 - THWO (Y/R)
15
16
17 - TC (P/B)
18
19
20
21 - D (L/B)
22
23
24 - AC1 (Y/B)
25 - ACT (R/L)
26
27
28
29
30 - W (R/Y)
31
32 - F/PS (Y) , SRS System
33
34
35 - WFSE (Y)

E 7



E 8



E 7 (R) – 35 P หน้า

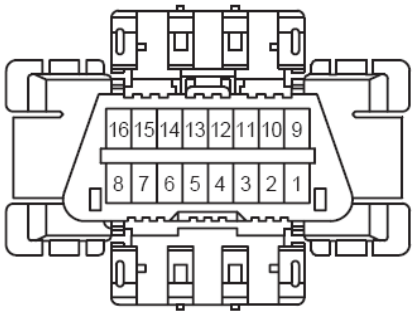
1 - #40 (L)
2 - #30 (W)
3 - E1 (W/B)
4
5 - #20 (B)
6 - #10 (Y)
7
8 - S2 (L)
9 - S1 (R/Y)
10 - SLU- (R)
11 - SLU+ (O)
12 - SLT+ (R/W)
13 - SLT- (P)
14
15 - EGR4 (R/L)
16 - EGR3 (Y/G)
17 - EGR2 (GR)
18 - EGR1 (W)
19 - ST (L/O)
20
21
22
23 - PRG (L/B)
24 - THO (W/L)
25
26
27 - NT- (B)
28 - VG (G)
29 - THA (Y/B)
30 - E2G (L/W)
31 - THG (L/R)
32 - PSST (L/R),-
33
34
35 - NT+ (W)

E 8 (Q) – 34 P หน้า

1 - HT1A (P)
2 - HT1B (P/L)
3 - E1 (BR)
4 - M- (B)
5 - M+ (W)
6 - E02 (W/B)
7 - E01 (W/B)
8 - GE01
9 - ALT (B/Y)
10 - ALT (R/B),M
11
12 - OC1- (B/Y)
13 - OC1+ (Y)
14 - IGT4 (W)
15 - IGT3 (GR)
16 - IGT2 (Y/G)
17 - IGT1 (R/L)
18 - VC (Y)
19 - VTA2 (W/B)
20 - VTA1 (LG)
21 - OX1A (R)
22
23 - IGF (Y/L)
24
25 - OX1B (W)
26 - G2+ (B)
27 - NE+ (B)
28 - E2 (BR)
29 - KNK1 (W)
30 - EKNK (B)
31
32 - THW (W)
33
34 - NE- (W)

DLC3

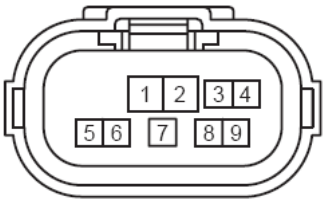
D15



BATT	WFSE	-	TC	-	-	-	TACH
-	SIL	-	-	CG	-	-	-

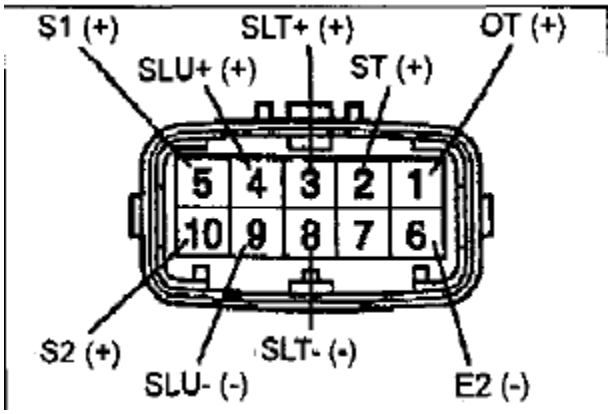
Neutral Position Sw.

C27
Gray



1	-	R (R/B)	6	-	P (L/R)
2	–	IG (R/L)	7	-	D (L/B)
3	–	2 (LG/R)	8	-	L (LG/B)
4	–	STA (B/R)	9	-	N (L/W)
5	–	NSW (W/B)			

A/T Solenoid 9 เส้น



Accelerator Position Sen.



EPA (Y)	VPA2 (R)	EPA2 (L)
VCPA (W)	VPA1 (G)	VCP2 (B)

เรือนไมล์ 1NZ-FE , คันเร่งไฟฟ้า(89661-12A70) A/T 9 เส้น , กล่องพลาสติก

F-62 (16 P) , B

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

1 - IG 2 - BATT 3 - E1 4 - IG Chg 5 - ODLP 6 - E1 7 - Fuel+ 8 - Door Sw. , -	9 - ELS , + 10 - L Chg 11 12 - E1 13 - OIL 14 - Fuel- 15 16 - Door Sw. , -

F-128 (32 P) , D

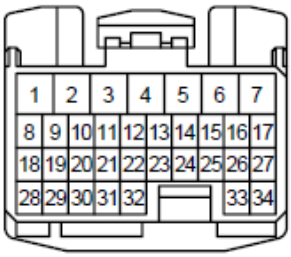
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

1 - B/K , - 2 3 4 - L 5 - 2 6 - D 7 - N 8 - P 9 10 - THWO 11 12 - IG- 13 14 - R 15 - SPD 16 - SP1	17 18 19 - W 20 - Turn R , + 21 - Turn L , + 22 23 24 25 26 27 28 29 30 - F Fog , + 31 32 - R Fog , +

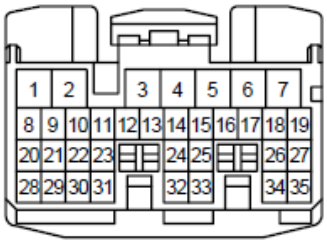
1NZ-FE , CVT - NCP51 Probox Van (89661-52390) 5 ปลั๊ก , คันเร่งไฟฟ้า

E10 – 34 P	E9 – 35 P	E8 – 32 P		E7 – 35 P	E6 – 31 P

E10



E 9



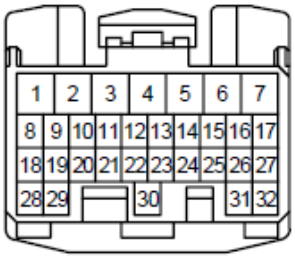
E 10 – 34 P , B หน้า

1 - #10 (B/O)
2 - #20 (B/Y)
3 - #30 (B/W)
4 - #40 (B/L)
5
6 - E02 (W/B)
7 - E01 (W/B)
8 - IGT1 (G/R)
9 - IGT2 (G/B)
10 - IGT3 (G/O)
11 - IGT4 (G/Y)
12 - ALT , RLO (L/R)
13
14 - FAN 2 (W/L)
15
16 - NSW (B)
17 - STA (B/Y)
18 - VC (R/W)
19 - THW (R/L)
20 - THA (Y/B)
21 - VTA1 (Y/R)
22 - Battery Sen. (R)
23 - THB , Battery Temp. Sen. (B)
24 - IGF (Y)
25
26
27
28 - E2 (BR)
29 - EVG (V)
30 - VG (P)
31 - VTA2 (L)
32
33
34 - EVAP (W/G)

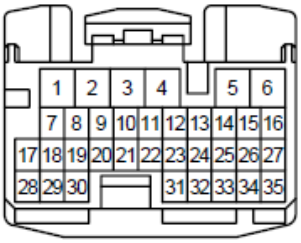
E 9 – 35 P , A หน้า

1 - KNK (W)
2 - EKNK (B)
3
4
5
6
7
8 - (V)
9 - DS2 (W/R)
10
11 - DS1 (W/G)
12 - SLU- (GR)
13 - SLU+ (G)
14
15 - SL (B/W)
16
17
18
19 - DSU (W/L)
20 - PTO , CVT Pressure Sen. (Y/B)
21
22
23 - NT+ (R)
24
25 - HTL (B/R)
26 - NOT+ (P)
27 - NIN+ (B/W)
28
29
30
31
32 - OIL (Y/G)
33 - OXL1 (W)
34
35 - NIN- (L/R)

E 8



E 7



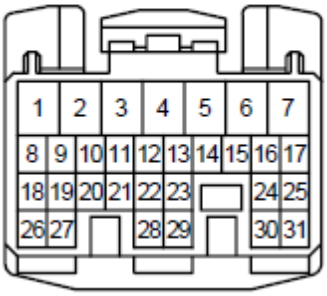
E 8 – 32 P , E หน้า

1 - E1 (BR)
2 - M- (W)
3 - M+ (B)
4 - ME01 (W/B)
5
6
7
8 - FAN 1 (Y/R)
9
10 - (R)
11 - SEL (W/B)
12
13
14
15 - OCV- (R/B)
16 - OCV+ (R/Y)
17 - GE01 (B)
18 - EGR3 (R/Y)
19 - EGR1 (G)
20
21 - ALT , RL (Y)
22 - 3 (R)
23 - ALT , M (L)
24 - NE- (W)
25 - NE+ (O)
26
27 - G2+ (B)
28 - EGR4 (G/B)
29 - EGR2 (Y/G)
30 - EC (BR)
31
32

E 7 – 35 P , D หน้า

1 - AC1 (GR)
2 - MGV (R)
3 - SNWO (L)
4
5 - SNW1 (V)
6 - +BM (P)
7
8 - MHSW (Y)
9 - L (P)
10 - D (O)
11 - R (B)
12 - ST1- (L)
13
14 - THWO (LG)
15
16 - THR (L)
17 - SPD (V)
18 - MPX1 (W)
19 - STP (G)
20 - ELS2 (B)
21
22
23 - PRE (V)
24
25 - (B)
26 - (BR)
27 - (Y)
28 - (P)
29 - MPX2 (L)
30 - (GR)
31 - (G)
32 - TAM (W)
33
34
35

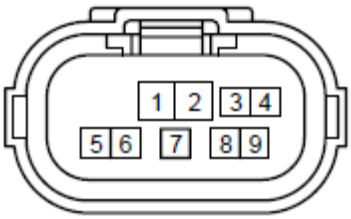
E 6



E 6 – 31 P , C

1 - +B (R)
2 - +B (R)
3 - BATT (L)
4
5 - TACH (B)
6 - P (O)
7 - N (GR)
8 - MREL (G)
9 - IGSW (BR)
10 - FC (P)
11 - W (O)
12 - ELS4 (LG)
13
14 - F/PS (W)
15 - (W/B)
16
17
18 - SIL (R)
19 - WFSE (GR)
20 - TC (Y)
21
22 - VPA1 (R)
23 - VPA2 (G)
24
25
26 - VCPA (B)
27 - VCP2 (V)
28 - EPA (L)
29 - EPA2 (O)
30
31

A/T Position Sw.



1 - IG (R/B)
2 - R (R/W)
3 - P (R)
4
5 - L (G/W)
6 - E1 (W/B)
7 - D (R/Y)
8 - N (GR)
9 - NSW (B/O)

A/T CVT Solenoid 8 เส้น

OIL (Y/G)	@	SLU+ (G)	DS2 (W/R)	DSU (W/L)
E2 (BR)	@	SLU- (GR)	DS1 (W/G)	SL (B/W)

Accerelator Position Sen.

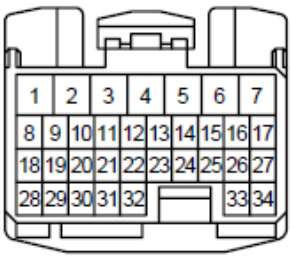


EPA (L)	VPA2 (G)	EPA2 (O)
VCPA (B)	VPA1 (R)	VCP2 (V)

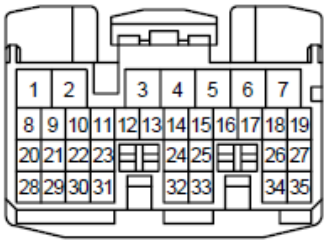
1NZ-FE , CVT – NCP81 (2WD) Sienta (89661-52C60)
5 ปลั๊ก , คันเร่งไฟฟ้า

E10 – 34 P	E9 – 35 P	E8 – 32 P		E7 – 35 P	E6 – 31 P

E10



E 9



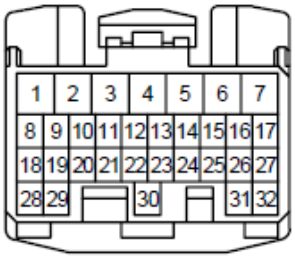
E 10 – 34 P , B หน้า

1 - #10 (B/O)
2 - #20 (B/Y)
3 - #30 (B/W)
4 - #40 (B/L)
5
6 - E02 (W/B)
7 - E01 (W/B)
8 - IGT1 (G/R)
9 - IGT2 (G/B)
10 - IGT3 (G/O)
11 - IGT4 (G/Y)
12 - ALT , RLO (L/R)
13
14 - FAN 2 (W/L)
15
16 - NSW (B) , -
17 - STA (B/Y)
18 - VC (R/W)
19 - THW (R/L)
20 - THA (Y/B)
21 - VTA1 (Y/R)
22 - Battery Sen. (R)
23 - THB , Battery Temp. Sen. (B)
24 - IGF (Y)
25
26
27
28 - E2 (BR)
29 - EVG (V)
30 - VG (P)
31 - VTA2 (L)
32
33
34 - PRG (W/G)

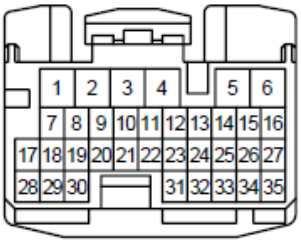
E 9 – 35 P , A หน้า

1 - KNK (W)
2 - EKNK (B)
3
4
5
6
7
8 - ABS (V)
9 - DS2 (W/R)
10
11 - DS1 (W/G)
12 - SLU- (GR)
13 - SLU+ (G)
14
15 - SL (B/W)
16
17
18
19 - DSU (W/L)
20 - PTO , CVT Pressure Sen. (Y/B)
21
22
23 - NT+ (R)
24 - GL (B)
25 - HTL (B/R)
26 - NOT+ (P)
27 - NIN+ (B/W)
28
29
30
31
32 - OIL (Y/G)
33 - OXL1 (W)
34
35 - NIN- (L/R)

E 8



E 7



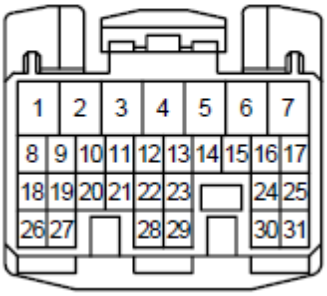
E 8 – 32 P , E หน้า

1 - E1 (BR)
2 - M- (W)
3 - M+ (B)
4 - ME01 (W/B)
5
6
7
8 - FAN 1 (Y/R)
9
10 - EMPS (R)
11 - E1 (W/B)
12
13
14
15 - OCV- (R/B)
16 - OCV+ (R/Y)
17 - GE01 (B)
18 - EGR3 (R/L)
19 - EGR1 (G)
20
21 - ALT , RL (Y)
22 - 3 (R)
23 - ALT , M (L)
24 - NE- (W)
25 - NE+ (O)
26
27 - G2+ (B)
28 - EGR4 (G/B)
29 - EGR2 (Y/G)
30 - EC (BR)
31
32

E 7 – 35 P , D หน้า

1 - AC1 (GR)
2 - MGV (R) , A/C Comp
3 - SNWO Lamp (L)
4
5 - SNW1 (V) , -
6 - +BM (P)
7
8 - MHSW (Y)
9 - L (P)
10 - D (O)
11 - R (B)
12 - ST1- (L)
13
14 - THWO (LG) , เรือนไมล์
15
16 - THR (L)
17 - SPD (V)
18 - MPX1 (W)
19 - STP (G)
20 - ELS2 (B)
21
22
23 - PRE (V) , A/C Pressure Sen.
24
25 - (B)
26 - (BR)
27 - (Y)
28 - PTC1 (P)
29 - MPX2 (L)
30 - INH (GR)
31 - THG (G)
32 - TAM (W) , Evap. Temp. Sen.
33
34
35

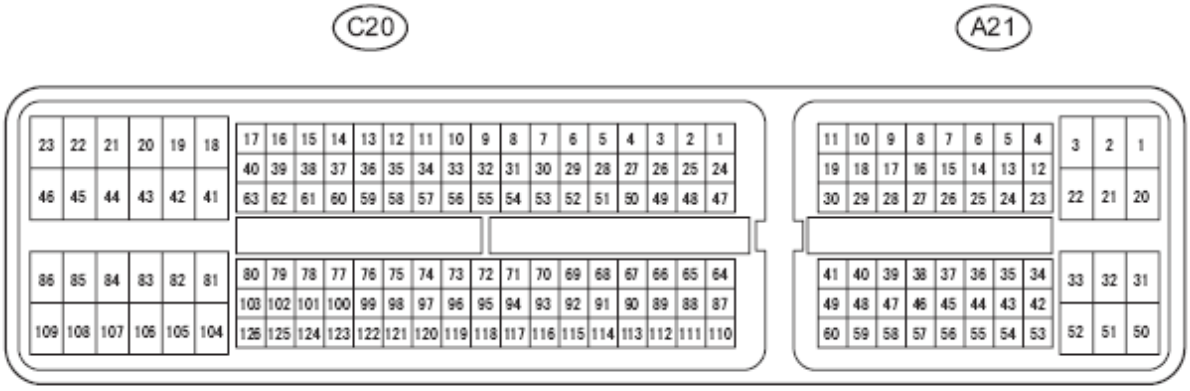
E 6



E 6 – 31 P , C

1 - +B (R)
2 - +B (R)
3 - BATT (L)
4
5 - TACH (B)
6 - P (O)
7 - N (GR)
8 - MREL (G)
9 - IGSW (BR)
10 - FC (P)
11 - W (O)
12 - ELS4 (LG)
13
14 - F/PS (W)
15 - (W/B)
16
17
18 - SIL (R)
19 - WFSE (GR)
20 - TC (Y)
21
22 - VPA1 (R)
23 - VPA2 (G)
24
25
26 - VCPA (B)
27 - VCP2 (V)
28 - EPA (L)
29 - EPA2 (O)
30
31

1NZ-FE , Ractis 2010



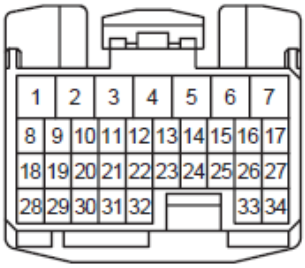
C 20 (B) หลังปลั๊ก			A 21 (A) หลังปลั๊ก		
1	-		1	-	+B2 (B)
2	-		2	-	+B (B)
3	-		3	-	+BM (GR)
4	-		4		
5	-		5		
6	-		6		
7	-		7	-	FC (V)
8	-		8	-	SPD (V)
9	-		9	-	EOM (BR)
10	-		10	-	IMO (O)
11	-		11	-	IMI (W)
12	-		12		
13			13	-	ACCR (G)
14			14	-	STSW (B)
15			15	-	TACH (LG)
16			16		
17			17		
18			18		
19			19		
20			20	-	BATT (Y)
21	-		21	-	FAN (O)
22	-		22	-	FAN2 (LG)
23			23		
24			24	-	W (B)
25			25		
26			26	-	ODMS (O)
27			27	-	TC (P)
28			28	-	IGSW (R)
29			29		
30			30		
31			31	-	ELS (G)
32			32	-	EC (W/B)
33			33	-	ELS3 (V)
34			34	-	MPMP (V)
35			35	-	ST1- (Y)
36			36	-	STP (G)
37			37		
38			38		
39			39		
40			40	-	CCS (L)
41	-	M- (R)	41	-	CAN H (L)
42	-	M+ (G)	42	-	VPMP (P)
43	-	ME01 (BR)	43		
44	-	E02 (B)	44	-	MREL (GR)

45 - E01 (BR)	45
46 - E04 (W/B)	46
47 - HT1B (LG)	47
48	48 - STA (BR)
49 - PRG (L)	49 - CAN L (W)
50 - ALT (P)	50
51 - RL , ALT (Y)	51
52 - STAR (O)	52
53 - R (R)	53
54 - N (SB)	54
55 - 2 (G)	55 - VPA (R)
56 - D (L)	56 - VPA2 (L)
57 - SLU+ (P)	57 - VCPA (B)
58	58 - VCP2 (W)
59 -	59 - EPA (G)
60 -	60 - EPA2 (BR)
61	
62	
63 - GE01 (BR)	
64 - OX1B (G)	
65 - THA (P)	
66	
67 - VCTA (W)	
68	
69	
70 - VCPP (V)	
71 - PPMP (L)	
72 - THO1 (Y)	
73 - P (R)	
74 - L (V)	
75 - SLT- (W)	
76 - SLT+ (G)	
77 - SLU- (O)	
78 - S2 (L)	
79 - S1 (SB)	
80 - ST (GR)	
81 - IGF1 (Y)	
82 - IGT4 (LG)	
83 - IGT3 (G)	
84 - IGT2 (O)	
85 - IGT1 (W)	
86 - E03 (W/B)	
87 - EX1B (GR)	
88 - ETHA (O)	
89	
90	
91 - ETA (V)	
92	
93	
94 - EPPM (O)	
95 - ETHO (B)	
96 - ETHW (P)	
97 - THW (L)	
98	
99 - G2+ (B)	
100 - OC1+ (BR)	
101	
102	
103	
104 - E1 (W)	
105 - #40 (L)	
106 - #30 (P)	
107 - #20 (GR)	
108 - #10 (SB)	
109 - HA1A (G)	
110 - KNK1 (R)	
111 - EKNK (G)	

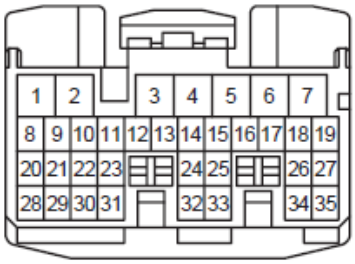
112 - A1A+ (V) **113 - A1A- (LG)** **114 - VTA2 (GR)** **115 - VTA1 (Y)** **116 - E2G (LG)** **117** **118 - VG (GR)** **119** **120** **121 - NE- (P)** **122 - NE+ (L)** **123 - OC1- (R)** **124 - NT- (G)** **125 - NT+ (B)** **126**	

1NZ-FE Vios ไทย – ปลั๊กหนา , คันเร่งสาย (89661-0D150)

E 4



E 5



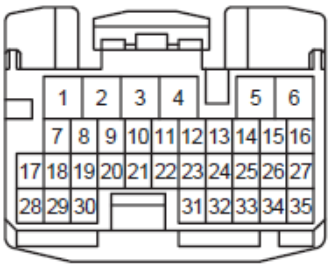
E3 – 34 P (A)

1	-	#10 (B/O)
2	-	#20 (B/Y)
3	-	#30 (B/W)
4	-	#40 (B/L)
5	-	RSD (B/R)
6	-	E02 (BR)
7	-	E01 (BR)
8	-	IGT1 (G/R)
9	-	IGT2 (G/B)
10	-	IGT3 (G/O)
11	-	IGT4 (G/Y)
12	-	PRG (G/W)
13	-	HP (R) , Dual Pressure Sw. , -
14	-	OCV- (R/B)
15	-	OCV+ (R/W)
16	-	SLT- (W)
17	-	SLT+ (W/L)
18	-	VC (R/W)
19	-	THW (B/L)
20	-	THA (Y/B)
21	-	VTA (Y/R)
22		
23	-	IGF (Y)
24		
25		
26	-	G2+ (B)
27	-	NE+ (B)
28	-	E2 (BR)
29		
30	-	OIL (Y)
31		
32		
33		
34	-	NE- (W)

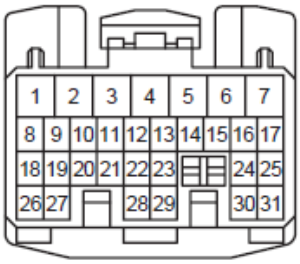
E5 – 35 P (B)

1	-	KNK (W)
2		
3		
4	-	HTL (B/R)
5	-	E03 (BR)
6		
7	-	E1 (BR)
8	-	NSW (B)
9	-	STA (B/Y)
10		
11		
12	-	ST (B/W)
13	-	SL (G)
14	-	S2 (W/R)
15	-	S1 (W/G)
16		
17		
18		
19		
20	-	ALT (L)
21	-	OXL2 (B)
22		
23	-	OXL1 (W)
24	-	VG (P/L)
25		
26		
27	-	NT+ (R)
28	-	EC (BR)
29	-	PSST (L/R)
30		
31		
32	-	EVG (V)
33		
34		
35	-	NT- (B)

E 6



E 7



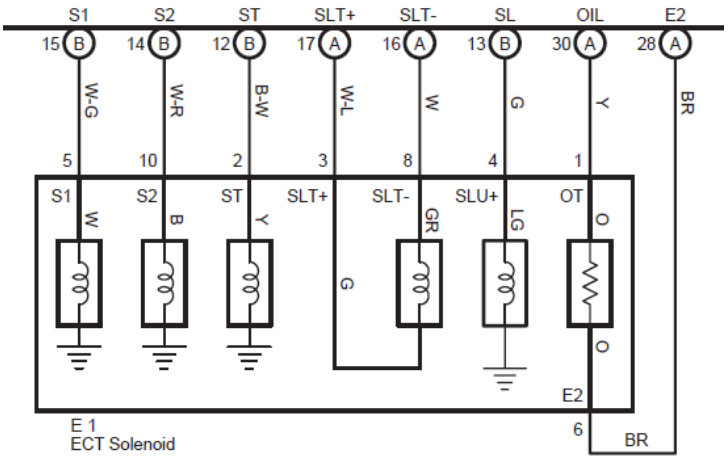
E12 – 35 P (C)

1		
2	-	ACMG (L/B)
3		
4	-	HTL2 (W)
5		
6		
7	-	ODLP (G/O) , O/D Lamp , -
8	-	L (G/W)
9	-	2 (G/Y)
10	-	D (R/Y)
11	-	R (R/W)
12		
13		
14		
15		
16		
17	-	SPD (V/W)
18		
19	-	STP (G/W)
20		
21		
22		
23		
24		
25		
26		
27		
28		
29	-	ODMS (G/O) , O/D Sw. , -
30		
31	-	AC1 (B/Y) , A/C Sw. , +
32	-	THR (B/W) , A/C Thermistor
33		
34		
35		

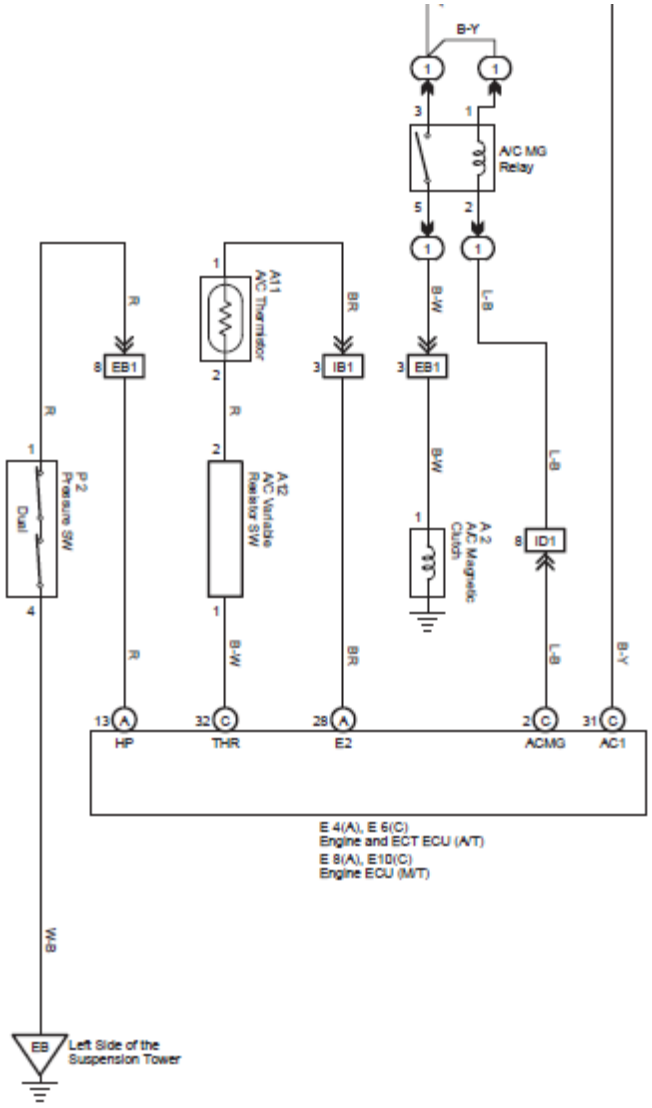
E6 – 31 P (D)

1	-	+B (B/R)
2		
3	-	BATT (B/Y)
4		
5	-	TACH (B)
6	-	CF (Y/R) , Fan No.1 Rel. LO
7	-	FAN (W/L) , Fan No.2 Rel. HI
8		
9		
10	-	FC (G)
11	-	W (Y/R)
12		
13		
14	-	F/PS (P) , SRS System
15		
16		
17		
18	-	SIL (W)
19	-	WFSE (P)
20	-	TC (P/B)
21		
22		
23		
24		
25		
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27		
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35		

A/T Solenoid 8 เส้น

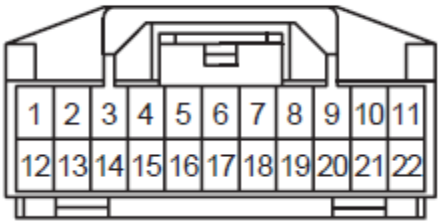


A/C Control

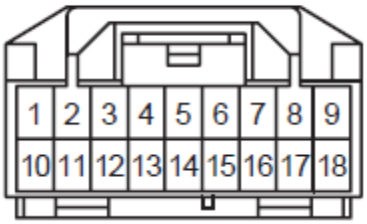


Combination meter - 1NZ-FE Vios ไทย – ปลั๊กหนา , คันเร่งสาย

C 6

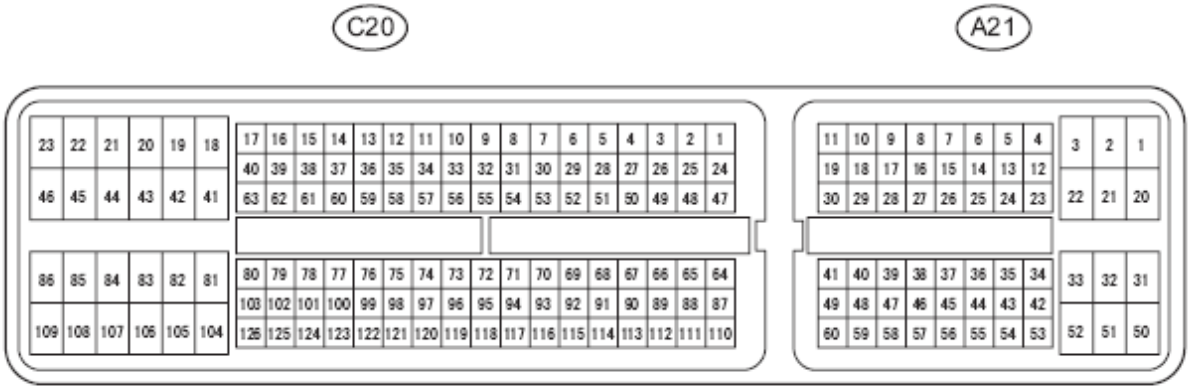


C 7



C6 (A)	C7 (B)
1 - IG (B/R)	1 - Trip Sw. (W/B)
2 - SRS	2 - D
3	3 - N
4 - COOL	4 - R
5 - HOT	5 - P
6 - Trip Sw. (Y/G)	6 - 2
7 - Beam	7 - E1 (W/B)
8 - Check Engine Lamp	8 - E1 (BR)
9 - Door	9 - Fuel Sender , E2 (BR)
10 - Door	10 - ELS
11 - Turn RH	11 - L
12 - ABS Lamp	12 - Fuel Sender (V)
13 - Oil Pressure Lamp (G)	13 - SPD (W/R)
14 - Charge Lamp	14 - SP1 (V/W)
15 - O/D Off Lamp	15 - IG- (B)
16 - Key and Seat Belt	16 - Key and Seat Belt
17	17 - IG (R/B)
18 - Water Temp Sender (Y)	18
19 - ABS ECU (B/W)	
20 - Parking Brake Sw. (Y/R)	
21 - Turn LH	
22 - Beam	

1NZ-FE - VIOS 2007

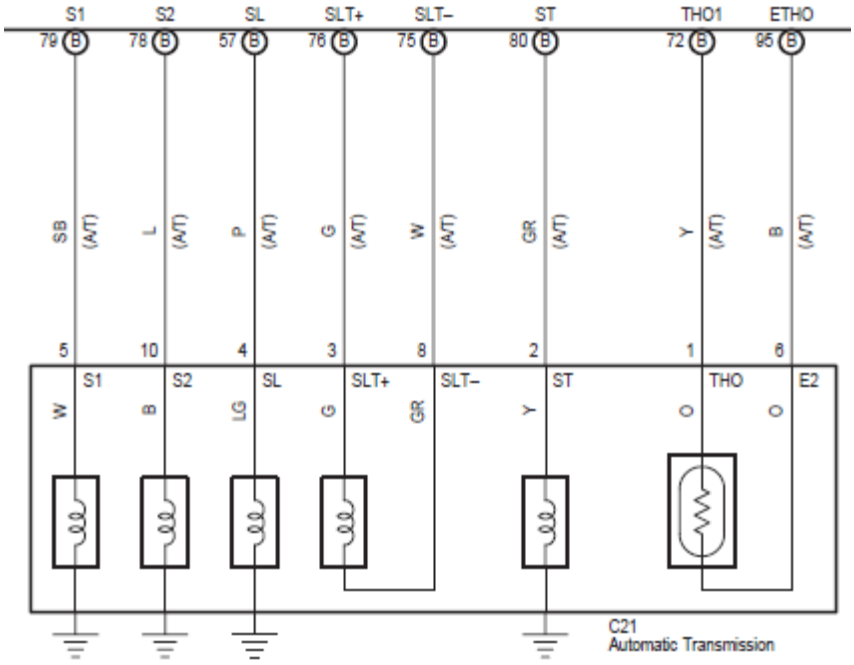


C 20 (B) หลังปลั๊ก			A 21 (A) หลังปลั๊ก		
1	-		1	-	+B2 (B)
2	-		2	-	+B (B)
3	-		3	-	+BM (GR)
4	-		4		
5	-		5		
6	-		6		
7	-		7	-	FC (V)
8	-		8	-	SPD (V)
9	-		9	-	EOM (BR)
10	-		10	-	IMO (O)
11	-		11	-	IMI (W)
12	-		12		
13			13	-	ACCR (G)
14			14	-	STSW (B)
15			15	-	TACH (LG)
16			16		
17			17		
18			18	-	ACT (B)
19			19		
20			20	-	BATT (Y)
21			21	-	FAN1 (O) , LO
22			22	-	FAN2 (LG) , HI
23			23		
24			24	-	W (B)
25			25		
26			26	-	ODMS (O)
27			27	-	TC (P)
28			28	-	IGSW (R)
29			29		
30			30	-	AC1 (R)
31			31	-	ELS (G)
32			32	-	EC (W/B)
33			33	-	ELS3 (V)
34			34	-	MPMP (V)
35			35	-	ST1- (Y)
36			36	-	STP (G)
37			37		
38			38		
39			39		
40			40	-	CCS (L)
41	-	M- (R)	41	-	CAN H (L)
42	-	M+ (G)	42	-	VPMP (P)
43	-	ME01 (BR)	43		
44	-	E02 (B)	44	-	MREL (GR)

45 - E01 (BR)	45
46 - E04 (W/B)	46
47 - HT1B (LG)	47
48	48 - STA (BR) , +
49 - PRG (L)	49 - CAN L (W)
50 - ALT (P) ขั้ว M	50
51	51
52 - STAR (O)	52
53 - R (R)	53
54 - N (SB)	54
55 - 2 (G)	55 - VPA (R)
56 - D (L)	56 - VPA2 (L)
57 - SL (P)	57 - VCPA (B)
58	58 - VCP2 (W)
59 -	59 - EPA (G)
60 -	60 - EPA2 (BR)
61	
62	
63 - GE01 (BR)	
64 - OX1B (G)	
65 - THA (P)	
66	
67 - VCTA (W)	
68	
69	
70 - VCPP (V)	
71 - PPMP (L)	
72 - THO1 (Y)	
73 - P (R)	
74 - L (V)	
75 - SLT- (W)	
76 - SLT+ (G)	
77 -	
78 - S2 (L)	
79 - S1 (SB)	
80 - ST (GR)	
81 - IGF1 (Y)	
82 - IGT4 (LG)	
83 - IGT3 (G)	
84 - IGT2 (O)	
85 - IGT1 (W)	
86 - E03 (W/B)	
87 - EX1B (GR)	
88 - ETHA (O)	
89	
90	
91 - ETA (V)	
92	
93	
94 - EPPM (O)	
95 - ETHO (B)	
96 - ETHW (P)	
97 - THW (L)	
98	
99 - G2+ (B)	
100 - OC1+ (BR)	
101	
102	
103	
104 - E1 (W)	
105 - #40 (L)	
106 - #30 (P)	
107 - #20 (GR)	
108 - #10 (SB)	
109 - HA1A (G)	
110 - KNK1 (R)	
111 - EKNK (G)	

112 - A1A+ (V) **113 - A1A- (LG)** **114 - VTA2 (GR)** **115 - VTA1 (Y)** **116 - E2G (LG)** **117** **118 - VG (GR)** **119** **120** **121 - NE- (P)** **122 - NE+ (L)** **123 - OC1- (R)** **124 - NT- (G)** **125 - NT+ (B)** **126**	

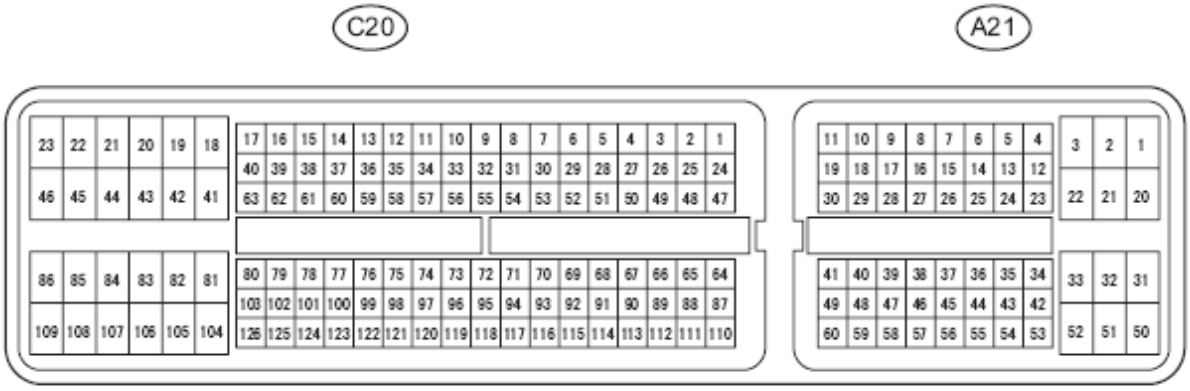
A/T Solenoid 8 เส้น





THO	**ST**	**SLT+**	**SL**	**S1**
E2	*	**SLT-**	*	**S2**

1NZ-FE , YARIS 2007 (NCP91 , 93)

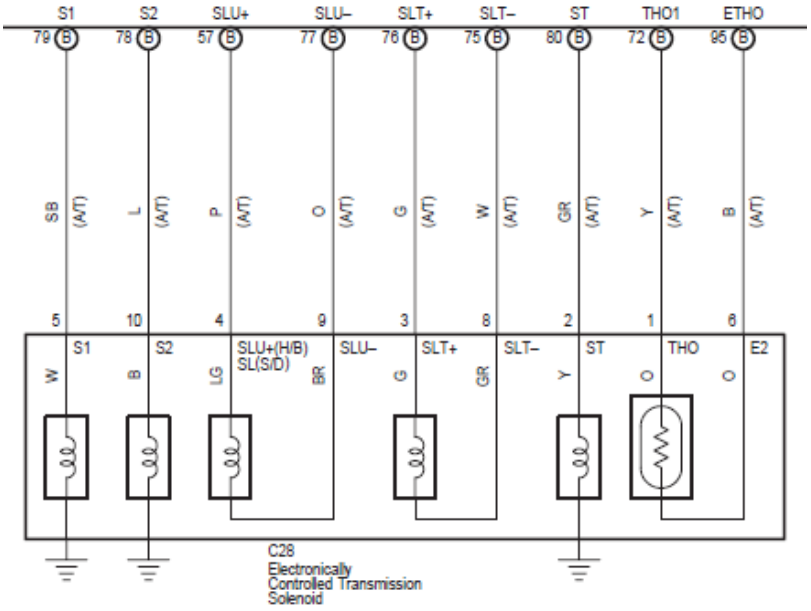


C 20 (B) หลังปลั๊ก			A 21 (A) หลังปลั๊ก		
1	-		1	-	+B2 (B)
2	-		2	-	+B (B)
3	-		3	-	+BM (GR)
4	-		4		
5	-		5		
6	-		6		
7	-		7	-	FC (V)
8	-		8	-	SPD (V)
9	-		9	-	EOM (BR)
10	-		10	-	IMO (O)
11	-		11	-	IMI (W)
12	-		12		
13			13	-	ACCR (G)
14			14	-	STSW (B)
15			15	-	TACH (LG)
16			16		
17			17		
18			18		
19			19		
20			20	-	BATT (Y)
21			21	-	FAN1 (O) , LO
22			22	-	FAN2 (LG) , HI
23			23		
24			24	-	W (B)
25			25		
26			26	-	ODMS (O)
27			27	-	TC (P)
28			28	-	IGSW (R)
29			29		
30			30		
31			31	-	ELS (G)
32			32	-	EC (W/B)
33			33	-	ELS3 (V)
34			34	-	MPMP (V)
35			35	-	ST1- (Y)
36			36	-	STP (G)
37			37		
38			38		
39			39		
40			40	-	CCS (L)
41	-	M- (R)	41	-	CAN H (L)
42	-	M+ (G)	42	-	VPMP (P)
43	-	ME01 (BR)	43		
44	-	E02 (B)	44	-	MREL (GR)

45 - E01 (BR)	45
46 - E04 (W/B)	46
47 - HT1B (LG)	47
48	48 - STA (BR) , +
49 - PRG (L)	49 - CAN L (W)
50 - ALT (P) ขั้ว M	50
51	51
52 - STAR (O)	52
53 - R (R)	53
54 - N (SB)	54
55 - 2 (G)	55 - VPA (R)
56 - D (L)	56 - VPA2 (L)
57 - SLU+ (P)	57 - VCPA (B)
58	58 - VCP2 (W)
59 -	59 - EPA (G)
60 -	60 - EPA2 (BR)
61	
62	
63 - GE01 (BR)	
64 - OX1B (G)	
65 - THA (P)	
66	
67 - VCTA (W)	
68	
69	
70 - VCPP (V)	
71 - PPMP (L)	
72 - THO1 (Y)	
73 - P (R)	
74 - L (V)	
75 - SLT- (W)	
76 - SLT+ (G)	
77 - SLU- (O)	
78 - S2 (L)	
79 - S1 (SB)	
80 - ST (GR)	
81 - IGF1 (Y)	
82 - IGT4 (LG)	
83 - IGT3 (G)	
84 - IGT2 (O)	
85 - IGT1 (W)	
86 - E03 (W/B)	
87 - EX1B (GR)	
88 - ETHA (O)	
89	
90	
91 - ETA (V)	
92	
93	
94 - EPPM (O)	
95 - ETHO (B)	
96 - ETHW (P)	
97 - THW (L)	
98	
99 - G2+ (B)	
100 - OC1+ (BR)	
101	
102	
103	
104 - E1 (W)	
105 - #40 (L)	
106 - #30 (P)	
107 - #20 (GR)	
108 - #10 (SB)	
109 - HA1A (G)	
110 - KNK1 (R)	
111 - EKNK (G)	

112 - A1A+ (V) 113 - A1A- (LG) 114 - VTA2 (GR) 115 - VTA1 (Y) 116 - E2G (LG) 117 118 - VG (GR) 119 120 121 - NE- (P) 122 - NE+ (L) 123 - OC1- (R) 124 - NT- (G) 125 - NT+ (B) 126	

A/T Solenoid 9 เส้น

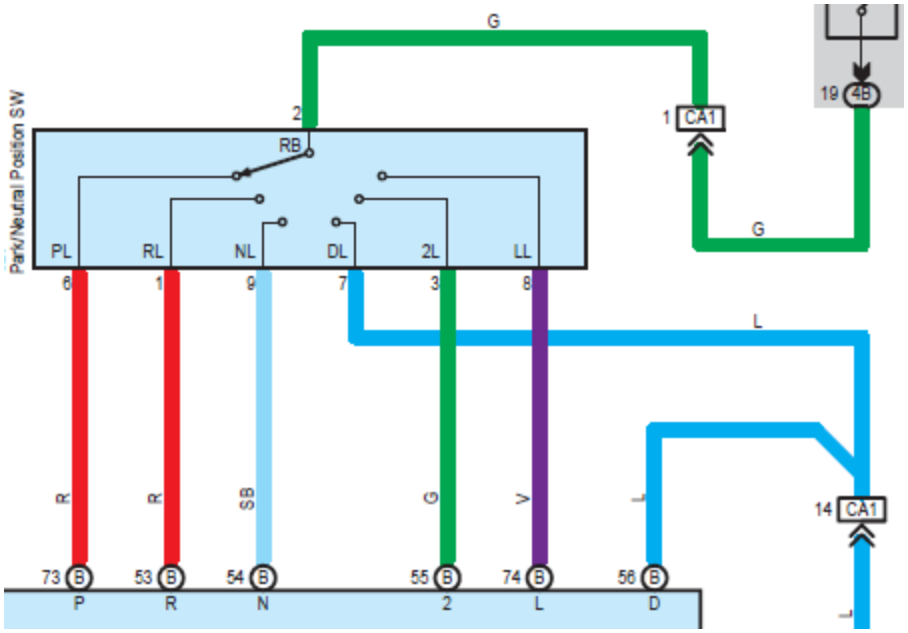


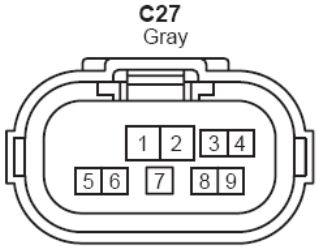
C28
Gray



THO1	ST	SLT+	SLU+	S1
ETHO	*	SLT-	SLU-	S2

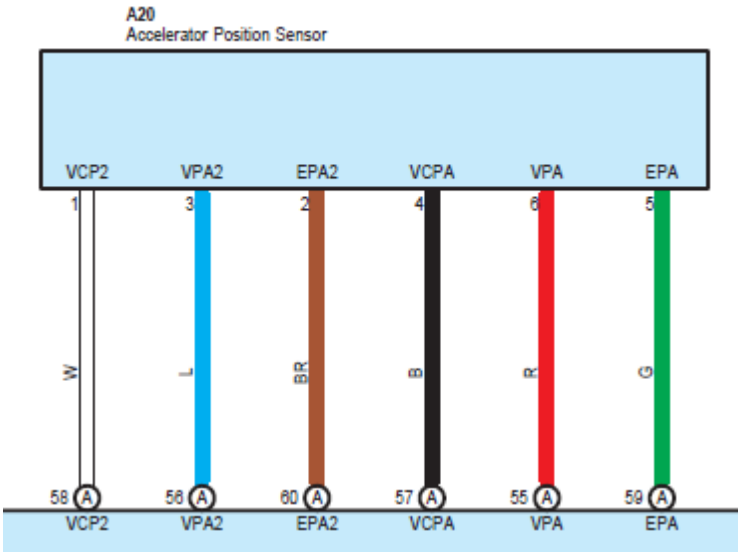
Neutral Position Sw. (C 27)





6	-	R (R)	6	-	P (R)
7	–	IG (G)	7	-	D (L)
8	–	2 (G)	8	-	L (V)
9	–	STA	9	-	N (LG)
10	–	NS			

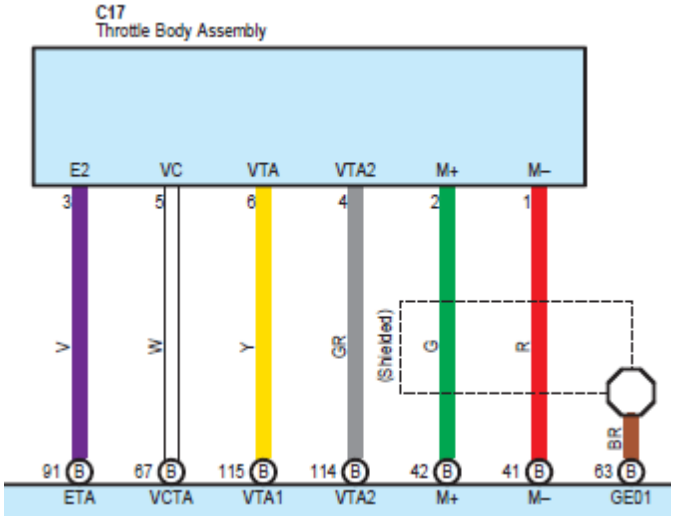
Accelerator Position Sensor (A 20)





VCP2	EPA2	VPA2	VCPA	EPA	VPA

Throttle Body Control (C 17)



C17
Black



M-	**M+**	**E2**	**VTA2**	**VC**	**VTA1**

Oxygen Sensor (D 28)

D28
Dark Gray



HT1B	**+B**
OX1B	**E2**

A/F Sensor (C 23)

D28
Dark Gray



HA1A	**+B**
A1A+	**A1A-**

Air Flow Sensor

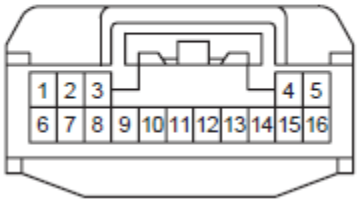
C26
Black



+B	E2G	VG	THA	E2

Transponder Key ECU

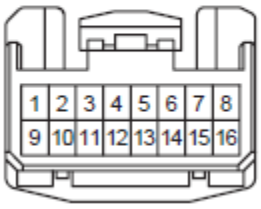
D23



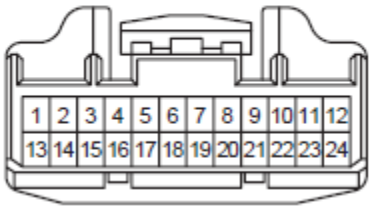
1 - BATT (L)
2 - IG (R)
3 - KSW (O)
4 - TXCT (V)
5 - AGND (GR)
7 - CTY (B)
6 -
8 - IND (LG)
9 - DLC (W)
10 -
11 - EGND (BR) , Engine ECU
12 - EFII (O) , Engine ECU
13 - EFIO (W) , Engine ECU
14 - VC5 (P)
15 - CODE (G)
16 - GND (W/B)

A/C Amplifier (E8 , E9) - Yaris

E8



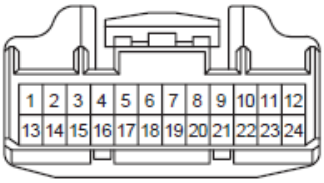
E9



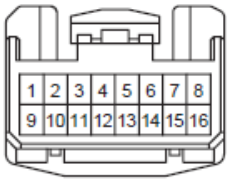
E8 (A)	E9 (B)
1 - A/C Pressure Sen. (Y)	1
2 - CAN H (V)	2
3 - CAN L (W)	3
4 - A/C Thermistor , E2 (L)	4
5 - Ambient Temp. Sen. (W)	5
6 - A/C Pressure Sen. (GR)	6
7 - A/C Comp. (LG)	7
8 - IG (Y)	8
9	9 - Heater Sub 1 Rel. (V)
10 - A/C Thermistor (GR)	10 - Heater Sub 2 Rel. (BR)
11 - Ambient Temp. Sen. , E2 (B)	11
12 - E1 (W/B)	12 - Heater Sub 3 Rel. (R)
13	13
14 - Rear Window Defogger Sw. (LG)	14 - Rear Window Defogger Sw. (LG)
15 - A/C Sw. , + (LG)	15
16 - LED (P)	16
	17
	18
	19
	20
	21
	22
	23 - Body ECU (LG)
	24 - Alternator (P)

Combination Meter

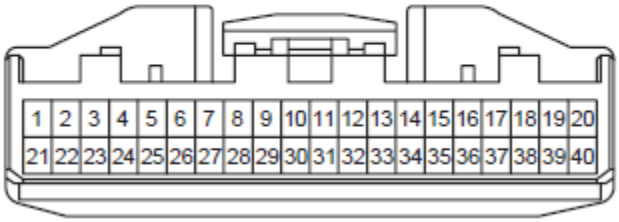
D1



D2

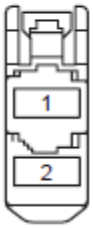


D76

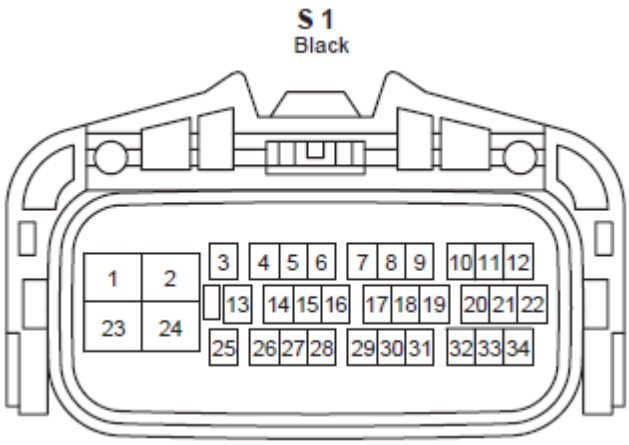


Power Steering ECU (PPS)

A19
Gray

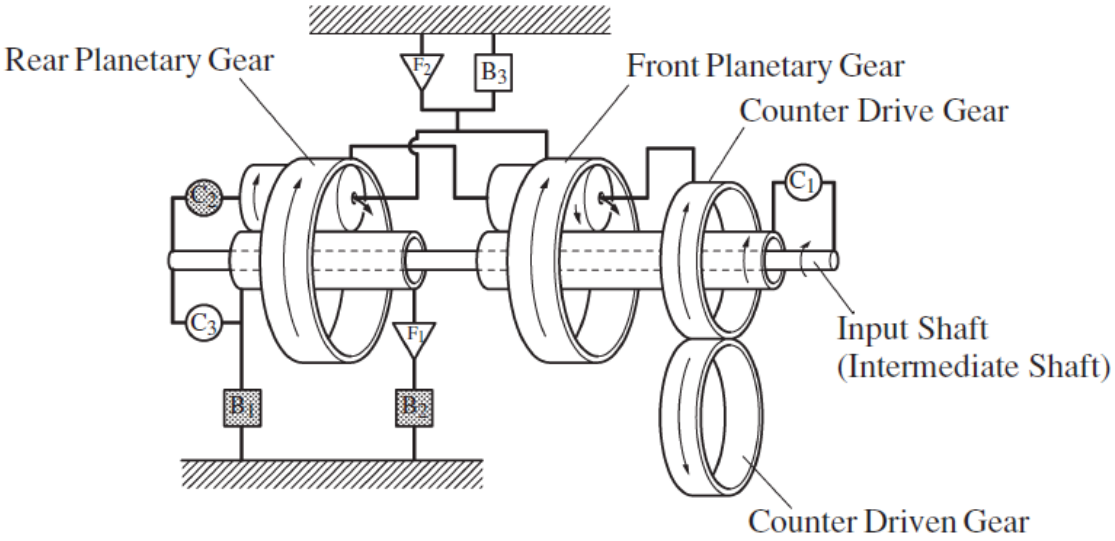


ABS - YARIS Verso 1NZ-FE ไม่มีไมล์ไฟฟ้า



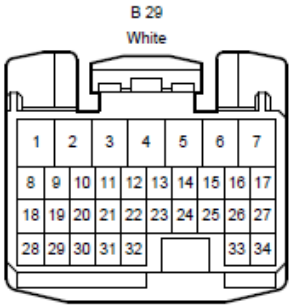
1 - BATT	18
2 - E1	19
3	20
4	21
5	22
6	23 - BATT
7	24 - E1
8 - FL-	25 - IG
9 - FL+	26 - SPD
10 - STP	27
11 - RL+	28
12 - RL-	29
13 - W ABS	30 - FR-
14 - DLC	31 - FR+
15 - DLC	32
16 - DLC	33 - RR+
17	34 - RR-

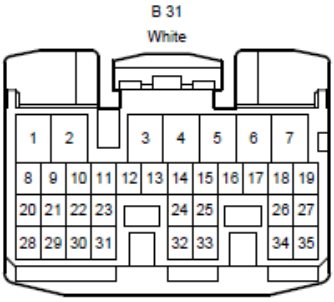
A/T Transmission U340E (1NZ-FE)



Shift Lever Position	Gear	Solenoid Valve		Clutch			Brake			One-Way Clutch	
		S1	S2	C_1	C_2	C_3	B_1	B_2	B_3	F_1	F_2
P	Park	ON	ON								
R	Reverse	ON	ON			○			○		
N	Neutral	ON	ON								
D	1st	ON	ON	○							○
	2nd	ON	OFF	○				○		○	
	3rd	OFF	OFF	○	○			○			
	4th	OFF	ON		○		○	○			
3	1st	ON	ON	○							○
	2nd	ON	OFF	○				○		○	
	3rd	OFF	OFF	○	○			○			
2	1st	ON	ON	○							○
	2nd	ON	OFF	○			○	○		○	
L	1st	ON	ON	○					○		○

VIOS 2013 (1NZ-FE) A/T





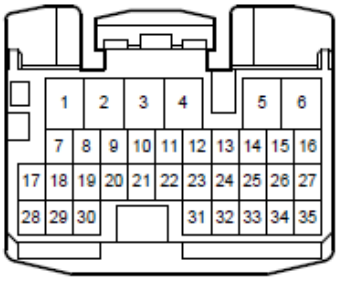
B 29 (A) หน้า

1 - E1 (W/B)
2 - ME01 (W/B)
3 - M- (BR)
4 - M+ (G)
5 - E02 (W/B)
6 - E01 (W/B)
7
8 - PBV (GR)
9 - GE01
10
11
12 - OC1- (BR)
13 - OC1+ (GR)
14 - IGT4 (BR)
15 - IGT3 (G)
16 - IGT2 (Y)
17 - IGT1 (B)
18 - VCTA (W)
19 - VTA2 (GR)
20 - VTA1 (Y)
21 - THW (V)
22 - THA (P)
23 - IGF (GR)
24
25
26 - G+ (W)
27 - NE+ (L)
28 - ETA (V)
29 - E2G (B)
30 - VG (V)
31 - ETHW (BR)
32 - ETHA (BR)
33
34 - NE- (B)

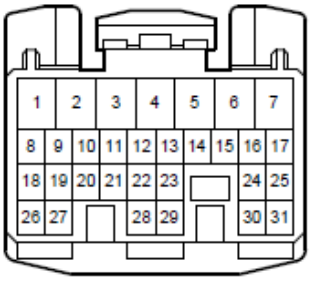
B 31 (C) หน้า

1 - HT1A (R)
2 - E03 (W/B)
3 - ALT (LG)
4 - #20 (P)
5 - #30 (Y)
6 - #40 (W)
7 - #10 (LG)
8 - ST (W)
9 - S2 (BE)
10 - S1 (V)
11 - SL (R)
12 - SLT+ (P)
13 - SLT- (L)
14
15
16 - L (G)
17 - R (R)
18 - 2 (LG)
19 - PRG (L)
20
21
22
23
24 - THO1 (Y)
25 - OX1A (W)
26 - N (V)
27 - NT- (G)
28 - EKNK (G)
29 - KNK1 (R)
30
31
32 - ETHO (B)
33 - EX1A (Y)
34 - P (P)
35 - NT+ (B)

F 82
White

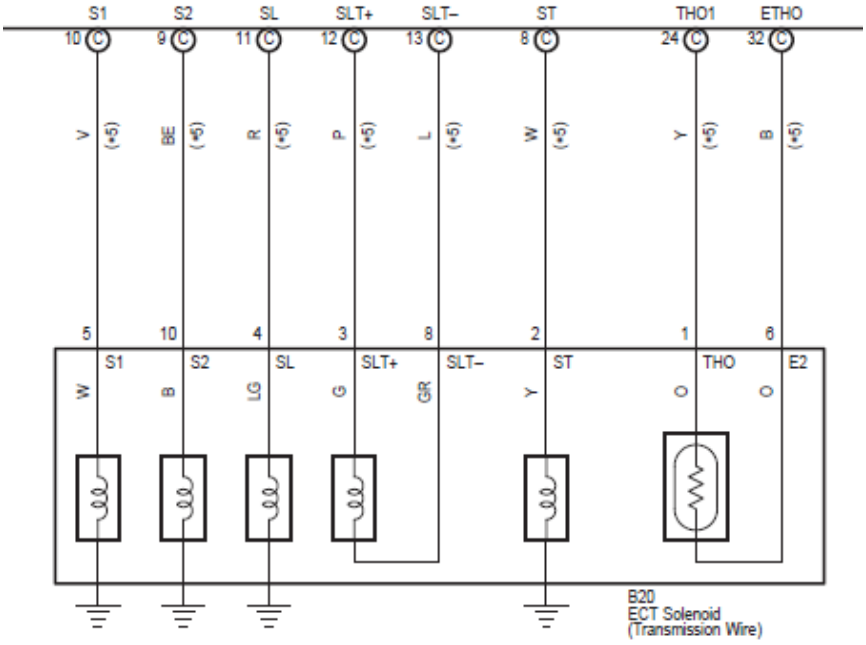


F 83
White



F 82 (F)	F 83 (G)
1 - TACH (R)	1 - +B (R)
2	2 - +B2 (R)
3	3
4	4 - BATT (G)
5	5
6 - HT1B (P)	6
7 - NEO (BE)	7
8 - 3 (GR)	8 - MREL (L)
9 - NSW (L)	9 - IGSW (V)
10	10 - FC (LG)
11	11
12	12 - ACMG (BE)
13 - ELS2 (B)	13 - FANL (BR)
14 - ELS1 (V)	14 - FANH (LG)
15 - IMO (BR)	15 - STP (B)
16 - IMI (G)	16 - ST1- (B)
17	17
18 - SPD (BR)	18 - VPA (P)
19 - STA (LG)	19 - VPA2 (L)
20 - EMPS (B)	20 - EPA (BR)
21 - D (L)	21 - EPA2 (B)
22	22
23	23 - TC (L)
24 - AC1 (L)	24
25	25
26 - EX1B (B)	26 - VCPA (G)
27 - OX1B (W)	27 - VCP2 (W)
28	28
29	29
30	30
31	31
32	
33 - CANH (BE)	
34 - CANL (W)	
35	

A/T Solenoid 8 เส้น



New VIOS 2013 (1NZ-FE) M/T

B 29 (A) หน้า

1	-	E1 (W/B)
2	-	ME01 (W/B)
3	-	M- (BR)
4	-	M+ (G)
5	-	E02 (W/B)
6	-	E01 (W/B)
7		
8	-	PBV (GR)
9	-	GE01
10		
11		
12	-	OC1- (BR)
13	-	OC1+ (GR)
14	-	IGT4 (BR)
15	-	IGT3 (G)
16	-	IGT2 (Y)
17	-	IGT1 (B)
18	-	VCTA (W)
19	-	VTA2 (GR)
20	-	VTA1 (Y)
21	-	THW (V)
22	-	THA (P)
23	-	IGF (GR)
24		
25		
26	-	G+ (W)
27	-	NE+ (L)
28	-	ETA (V)
29	-	E2G (B)
30	-	VG (V)
31	-	ETHW (BR)
32	-	ETHA (BR)
33		
34	-	NE- (B)

B 31 (C) หน้า

1	-	HT1A (R)
2	-	E03 (W/B)
3	-	ALT (LG)
4	-	#20 (P)
5	-	#30 (Y)
6	-	#40 (W)
7	-	#10 (LG)
8	-	ST (W)
9	-	S2 (BE)
10	-	S1 (V)
11	-	SL (R)
12	-	SLT+ (P)
13	-	SLT- (L)
14		
15		
16	-	L (G)
17	-	R (R)
18	-	2 (LG)
19	-	PRG (L)
20		
21		
22		
23		
24	-	THO1 (Y)
25	-	OX1A (W)
26	-	N (V)
27	-	NT- (G)
28	-	EKNK (G)
29	-	KNK1 (R)
30		
31		
32	-	ETHO (B)
33	-	EX1A (Y)
34	-	P (P)
35	-	NT+ (B)

F 82 (F)

1	-	TACH (R)
2		
3		
4		
5		
6	-	HT1B (P)
7	-	NEO (BE)
8	-	3 (GR)
9	-	NSW (L)

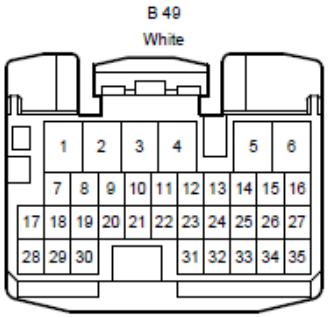
F 83 (G)

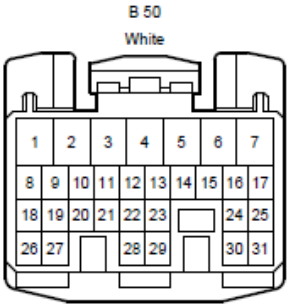
1	-	+B (R)
2	-	+B2 (R)
3		
4	-	BATT (G)
5		
6		
7		
8	-	MREL (L)
9	-	IGSW (V)

10	10 - FC (LG)
11	11
12	12 - ACMG (BE)
13 - ELS2 (B)	13 - FANL (BR)
14 - ELS1 (V)	14 - FANH (LG)
15 - IMO (BR)	15 - STP (B)
16 - IMI (G)	16 - ST1- (B)
17	17
18 - SPD (BR)	18 - VPA (P)
19 - STA (LG)	19 - VPA2 (L)
20 - EMPS (B)	20 - EPA (BR)
21 - D (L)	21 - EPA2 (B)
22	22
23	23 - TC (L)
24 - AC1 (L)	24
25	25
26 - EX1B (B)	26 - VCPA (G)
27 - OX1B (W)	27 - VCP2 (W)
28	28
29	29
30	30
31	31
32	
33 - CANH (BE)	
34 - CANL (W)	
35	

3NR-FE , CVT - YARIS 2014

B49(H), B50(I), B54(J), F117(K)
ECM



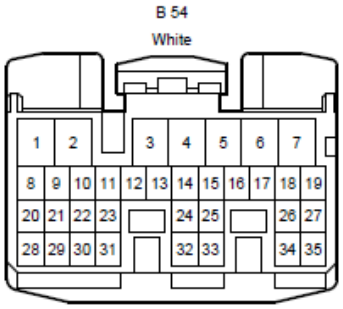


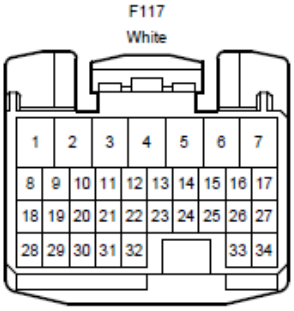
B 49 (H) หน้า

1 - M- (BR) , Throttle Control
2 - M+ (G) , Throttle Control
3 - ME01 (W/B)
4 - +BM (R)
5 - E02 (W/B)
6 - E01 (W/B)
7 - GE01
8 - NSW (L) , +
9 -
10
11 - SLT- (L) , A/T Sol.
12 - SLT+ (P) , A/T Sol.
13 -
14 -
15 - SLU- (V) , A/T Sol.
16 - SLU+ (L) , A/T Sol.
17 - KNK1 (R)
18 - ETA (V) , Throttle Control
19 - VCTA (W) , Throttle Control
20 - ETHO (B) , A/T Sol.
21 - THO1 (Y) , A/T Sol.
22 -
23 -
24
25 - N (V)
26 - EIB (V) , Battery Current Sen.
27 - IB (L) , Battery Current Sen.
28 - EKNK (G)
29 - VTA2 (GR) , Throttle Control
30 - VTA1 (Y) , Throttle Control
31 -
32 - 2 (LG)
33 - D (L)
34 - R (R)
35 - VCIB (P) , Battery Current Sen.

B 50 (I) หน้า

1 - OE1- (W) , Cam Timing Oil Control EX.
2 - OE1+ (L) , Cam Timing Oil Control EX.
3 - EGR2 (P)
4 - EGR4 (V)
5 - EGR3 (L)
6 - EGR1 (G)
7
8 - OC1- (BR) , Cam Timing Oil Control IN
9 - OC1+ (GR) , Cam Timing Oil Control IN
10
11 - SLS+ (V) , A/T Sol.
12 - DS1 (W) , A/T Sol.
13 - DS2 (R) , A/T Sol.
14 - NOTO (W) , A/T Output Sen.
15 - NOTB (BE) , A/T Output Sen.
16 - NTB (B) , A/T Input Sen.
17 - NTO (G) , A/T Input Sen.
18 - THW (V)
19 - PTO (L) , Oil Pressure Sen.
20 - VCPT (V) , Oil Pressure Sen.
21 - NIN- (LG) , A/T Revolution Sen.
22 - NIN+ (Y) , A/T Revolution Sen.
23 - VG (V) , Air Flow Sen.
24 - VCPM (Y) , MAP Sen.
25 - PIM (B) , MAP Sen.
26 - ETHW (BR)
27 - EPTO (BE) , Oil Pressure Sen.
28 - THB (G) , Battery Current Sen.
29 - E2G (B) , Air Flow Sen.
30 - P (P)
31 - EPIM (LG) , MAP Sen.





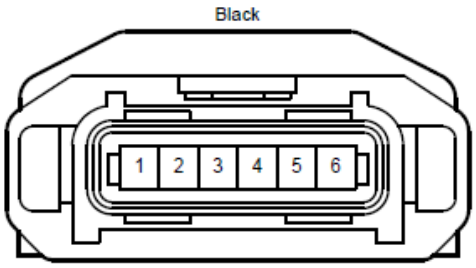
B 54 (J)

1 - #20 (P)
2 - #30 (Y)
3 - #40 (W)
4 - #10 (LG)
5 - HA1A (R)
6 - E04 (W/B)
7 - E1 (W/B)
8 - ALT (LG) , Alternator
9 - PBV (GR) , VSV
10 - IGT4 (BR)
11 - IGT3 (G)
12 - IGT2 (Y)
13 - IGT1 (B)
14 -
15 - ACMG (BE)
16 - HT1B (P)
17 - INH (R) , Wiper motor Fuse
18 - RLO (B) , Alternator
19 - PRG (L)
20 - THA (P) , Air Flow Sen.
21 - EV1+ (GR) , VVT Sen. EX
22 - VCE1 (L) , VVT Sen. EX
23 - NE+ (P) , Crank Sen.
24 - VCV1 (R) , VVT Sen. IN
25 - VV1+ (V) , VVT Sen. IN
26 - OX1B (B)
27 - A1A+ (B)
28 - ETHA (BR) , Air Flow Sen.
29 - EV1- (G) , VVT Sen. EX
30 - VCNE (Y) , Crank Sen.
31 - NE- (B) , Crank Sen.
32 -
33 - VV1- (P) , VVT Sen. IN
34 - EX1B (W)
35 - A1A- (W)

F 117 (K)

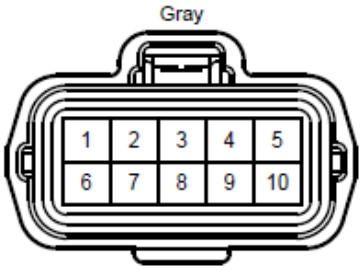
1 - STA (LG)
2 - ST1- (B)
3 - STP (B)
4 - IGSW (V)
5 - BATT (G)
6 - +B (R)
7 - +B (R)
8 - FPC (L)
9 - CAN L
10 - CAN H
11 - SPD (BR)
12 -
13 - TACH (R)
14 - MREL (L)
15 - NEO (BE)
16 - SDSW (GR) , Shift Lock Unit
17 - TC (L)
18 -
19 -
20 -
21 - EPA (BR) , Pedal Sen.
22 - EPA2 (B) , Pedal Sen.
23 - VCPA (G) , Pedal Sen.
24 - VCP2 (W) , Pedal Sen.
25
26 - IMO (BR)
27 - IMI (G)
28 - FAN L (BR) , FAN No.1
29 - FAN H (LG) , FAN No.2
30 - EMPS (B) , EPS ECU
31 - VPA2 (L) , Pedal Sen.
32 - VPA (P) , Pedal Sen.
33 - ELS2 (B)
34 - ELS1 (V)

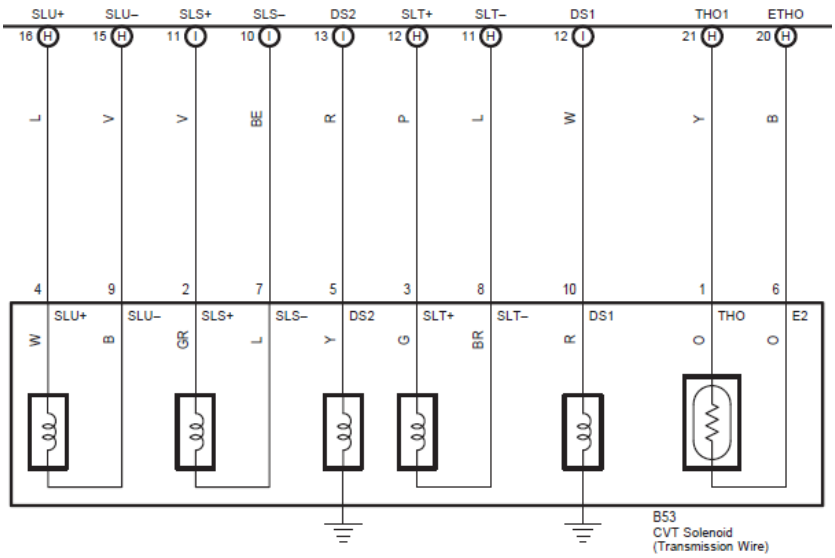
FP ECU



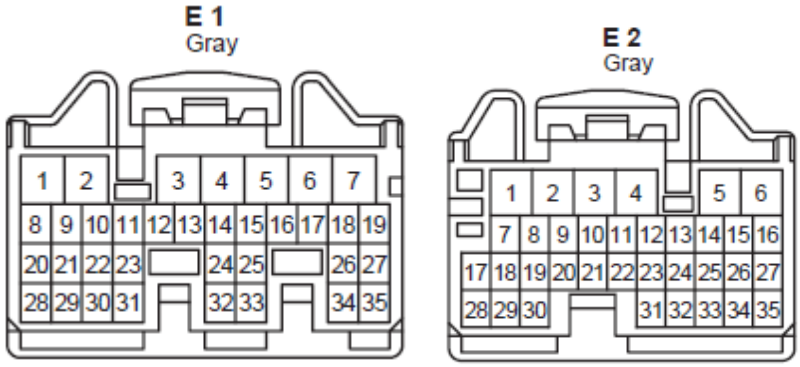
FP+ (W)	**FP- (W/B)**	**E1 (W/B)**	*	**FPC (L)**	**+B (B)**

A/T Solenoid 10 เส้น





Avanza , EJ-DE 3 สูบ , direct coil



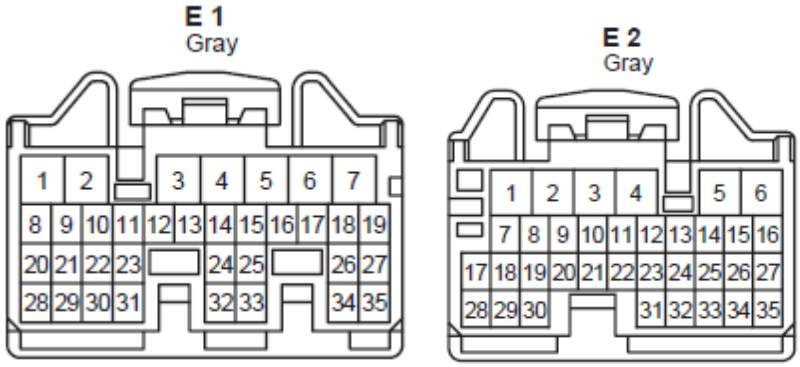
E1 (A) - 35 P

1 - E01 (BR)
2
3
4
5 - #30 (W/R)
6 - #20 (W/L)
7 - #10 (W/G)
8 - E2PM (W/B)
9 - IGT3 (G)
10 - IGT2 (R)
11 - IGT1 (B)
12
13 - VCPM (G/R)
14
15
16
17 - E1 (BR/W)
18 - E2 (BR/Y)
19 - VC (L/R)
20 - PIM (R/W)
21 - VTA (O)
22
23 - PSST (L/W)
24 - ISCA2 (G/B)
25 - ISCA1 (G/W)
26 - N2- (R)
27 - N2+ (G)
28 - KNK (L)
29
30
31 - THW (V)
32 - ISCB2 (R/L)
33 - ISCB1 (R/B)
34 - N1- (B)
35 - N1+ (W)

E2 (B) - 35 P

1 - E21 (BR/Y)
2 - VCO (L)
3 - STA (B/R)
4 - BATT (B)
5 - +B1 (B/Y)
6 - +B1 (B/Y)
7
8 - DLC3
9 - DLC3
10
11
12 - A/C System
13 - AUX (O)
14 - A/C System
15 - A/F (G/R)
16 - A/C System
17
18
19
20 - FC (B/W)
21
22
23 - A/C System
24
25 - VF (LG/B)
26 - A/C System
27 - SPD (LG/R)
28
29 - STP (G/Y)
30
31 - A/C System
32
33 - W (P)
34 - IG- (R/G)
35 - ELS (R/L)

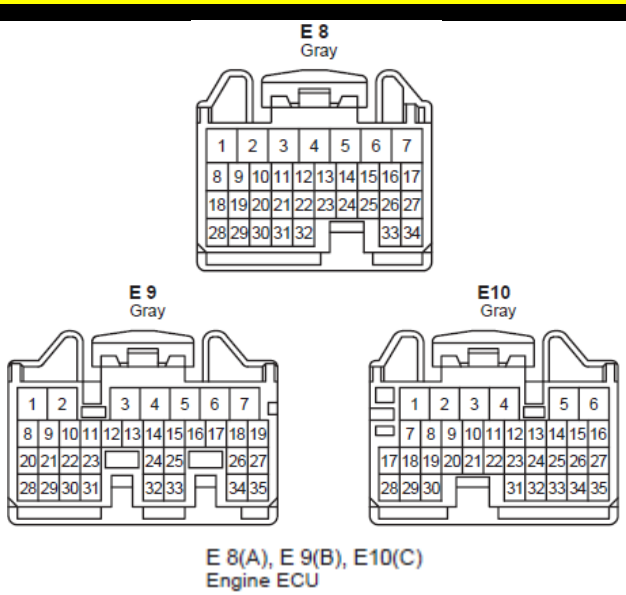
Avanza , K3-DE 4 สูบ , dual coil , กล่องเกียร์แยก



E1 (A) - 35 P	E2 (B) - 35 P
1 - E01 (BR)	1 - E21 (BR/Y)
2	2 - VCO (L)
3	3 - STA (B/R)
4 - #40 (W)	4 - BATT (B)
5 - #30 (W/R)	5 - +B1 (B/Y)
6 - #20 (W/L)	6 - +B1 (B/Y)
7 - #10 (W/G)	7
8 - E2PM (W/B)	8 - DLC3
9	9 - DLC3
10 - IGT2 (R)	10
11 - IGT1 (B)	11
12	12 - A/C System
13 - VCPM (G/R)	13 - AUX (O)
14	14 - A/C System
15	15 - A/F (G/R)
16	16 - A/C System
17 - E1 (BR/W)	17
18 - E2 (BR/Y)	18
19 - VC (L/R)	19
20 - PIM (R/W)	20 - FC (B/W)
21 - VTA (O)	21
22	22
23 - PSST (L/W)	23 - A/C System
24 - ISCA2 (G/B)	24
25 - ISCA1 (G/W)	25 - VF (LG/B)
26 - N2- (R)	26 - A/C System
27 - N2+ (G)	27 - SPD (LG/R)
28 - KNK (L)	28
29	29 - STP (G/Y)
30	30
31 - THW (V)	31 - A/C System
32 - ISCB2 (R/L)	32
33 - ISCB1 (R/B)	33 - W (P)
34 - N1- (B)	34 - IG- (R/G)
35 - N1+ (W)	35 - ELS (R/L)

Avanza , K3-VE , 3SZ-VE , EJ-VE 4 สูบ , direct coil

กล่องเกียร์แยก



E 8(A), E 9(B), E10(C)
Engine ECU

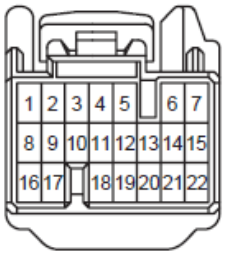
E8 (A) 34 P	E9 (B) 35 P
1 - OX2 (W)	1 - A/T ECU
2 - OX1 (GR)	2 - A/T ECU
3 - E01 (BR)	3 - A/T ECU
4 - #30 (W/R)	4 - E1 (W/B)
5 - #20 (W/L)	5 - #40 (W)
6 - #10 (W/G)	6 - OCV- (LG)
7 - +B (B/R)	7 - OCV+ (G/B)
8 - HT1 (L/Y)	8 -
9 - EVAP (P/L)	9 -
10 - VC (L/R)	10 -
11 - NE+ (W)	11 -
12 - E2 (W/B)	12
13 - THA (G/W)	13
14 - ISC (G/B)	14 - FAN1
15 - ISC (G/O)	15 - STA (B/R)
16 - IGT4 (W/R)	16 -
17 - IGT1 (L/B)	17
18 - G+ (G)	18
19 - THW (B/W)	19
20 - VTA (O)	20 - ABS ECU (P/B)
21 - NE- (B)	21
22 - VC (G/R)	22
23 - PIM (R/W)	23
24 - ISC (R/L)	24 - A/C Sw.
25 - ISC (R/B)	25 - A/C System
26 - ALT (P)	26
27 - IGT2 (LG/B)	27
28 - G- (R)	28
29 - E1 (BR/W)	29
30 - E2 (BR)	30
31 - KNK (L)	31
32 - PSST (L/W)	32
33	33
34 - IGT3 (W/G)	34
	35

E10 (C) 35 P

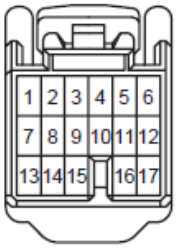
1		
2	-	
3	-	
4	-	ELS
5		
6	-	W (V/W)
7	-	BATT (B)
8		
9	-	
10	-	
11	-	A/C System
12	-	STP (G/Y)
13		
14	-	A/C System
15		
16		
17	-	VF (LG/B)
18	-	SPD (LG/R)
19	-	
20	-	ABS ECU
21		
22	-	FC (B/W)
23		
24	-	IG- (R/B)
25		
26	-	A/T ECU
27	-	DLC3 (P)
28	-	DLC3 (LG)
29		
30	-	A/C System
31		
32		
33	-	DLC3
34	-	SRS ECU (P/L)
35		

Avanza F601 , K3-VE 4 สูบ , direct coil , กล่องเกียร์แยก

E4



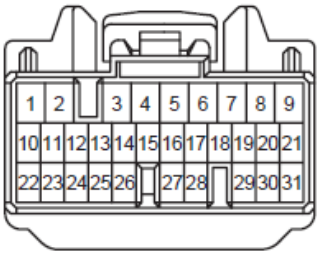
E5



E6



E7



E4 (A) 22 P

1 - BATT (B)
2 - FC (B/W)
3 - W (P)
4 - A/T ECU (R)
5
6
7 - +B1 (B/Y)
8 - E21 (BR/Y)
9
10
11 - A/T ECU (G)
12 - A/T ECU (L/O)
13 - VF (LG/B)
14 - Air Bag Sensor (Y/R)
15 - +B2 (B/Y)
16
17
18
19
20
21
22 - STA (B/R)

E5 (B) 17 P

1 - SIO1 (P/B)
2 - T (V)
3
4 - A/T (W/L)
5 - MGC (
6 - FAN1
7 - SPD (LG/R)
8 - ACSW
9 - BLW
10 - STP (G/Y)
11 - AUX (O)
12
13
14 - E1 (W/B)
15 - ELS (R/L)
16 - ACEV
17

E6 (C) 24 P

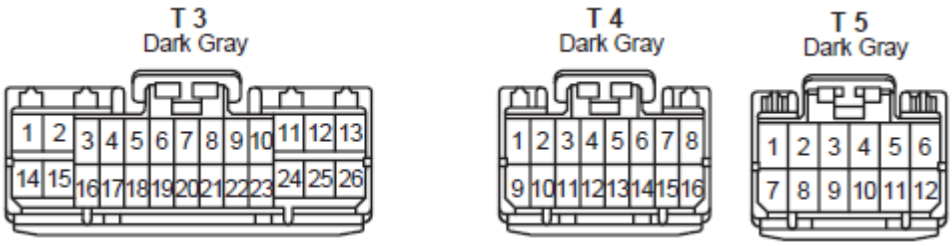
1
2 - PIM (R/W)
3 - VC (L/R)
4 - E2 (BR)
5
6
7
8
9 - VTA (O)
10 - THW (V)
11 - VCPM (G/R)
12 - E2PM (W/B)
13
14
15
16
17
18 - OX1 (GR)
19 - THA (G/W)

E7 (D) 31 P

1 - NE+ (W)
2 - G+ (G)
3 - E1 (BR/W)
4
5 - #10 (W)
6 - #30 (W/R)
7 - #20 (W/L)
8 - #10 (W/G)
9 - OCV+ (G/B)
10 - NE- (B)
11 - G- (R)
12 - KNK (L)
13 - ISC (P)
14
15
16 - IGT4 (W)
17 - IGT3 (B)
18 - IGT2 (W)
19 - IGT1 (B)

20 - ACVR **21** **22 - PSST (L/W)** **23** **24**	**20** **21 - OCV- (LG)** **22** **23** **24** **25 - EVAP (P/L)** **26** **27** **28** **29** **30** **31 - E01 (BR)**

A/T Avanza ปลั๊กบาง



T3 (A) 26 P

1 -
2 - ODL (L/O)
3 - P (G/B)
4 - SPD (P)
5
6
7 - DLC3 (V)
8 - OD2 (LG/R)
9 - STP (G/Y)
10
11 - BATT (B/R)
12 - +B2 (LG)
13 - +B1 (LG)
14 - GE01 (BR)
15 -
16 - Engine ECU (G)
17 - Engine ECU (R)
18 - DLC3 (P/B)
19 - L (V)
20 - 2 (G/O)
21 - D (LG/B)
22 - N (G/R)
23 - R (G/W)
24
25
26

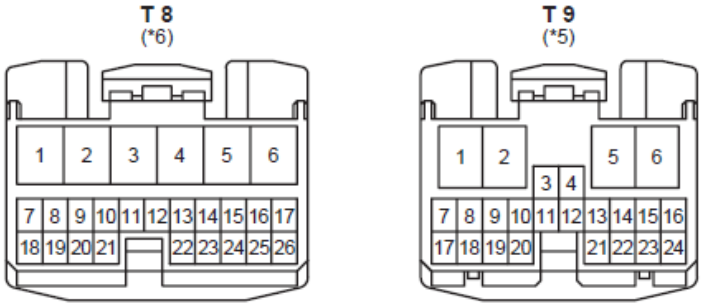
T4 (B) 16 P

1 - Out Put Shaft Speed Sen. (L) , hall 5 V.
2 - Engine ECU (L/O)
3
4 -
5 - VC (Y)
6 -
7 -
8 -
9 -
10 -
11 - DVSI (W/B)
12
13 - E2 (BR/W)
14 - E1 (B)
15 - OTMP (Y/B)
16 - Input Shaft Speed Sen. (W) , hall 5 V.

T5 (C) 12 P

1 - B1+ (R/W)
2 - C2+ (B/W)
3 - C3B2+ (W/G)
4 - LUCC (B/Y)
5 - LUCR (L/R)
6 - SOLR (GR)
7 - B1- (G/W)
8 - C2- (G/Y)
9 - C3B2- (W/R)
10
11 - E02 (B)
12 - E01 (B)

A/T ECU Avanza F601 ปลั๊กหนา

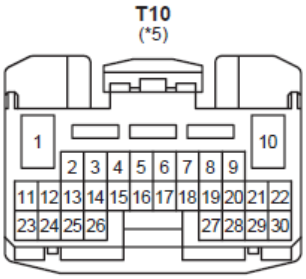


T8 (A) - 26 P

1 - C3B2- (W/R)
2 - C3B2+ (W/G)
3 - C2- (G/Y)
4 - C2+ (B/W)
5 - B1- (G/W)
6 - B1+ (R/W)
7 - Output Shaft Speed Sen. , VC (L/Y)
8 - Output Shaft Speed Sen. , Signal (L)
9 - Input Shaft Speed Sen. , VC (L/B)
10 - Input Shaft Speed Sen. , Signal (W)
11 - LUCR (L/R)
12 - SOLR (GR)
13 - ETMP (BR/W)
14 - OTMP (Y/B)
15 - P (G/B)
16 - 2 (G/O)
17 - D (LG/B)
18 - Output Shaft Speed Sen. , E2 (L/R)
19
20 - Input Shaft Speed Sen. , E2 (P/B)
21
22
23 - LUCC (B/Y)
24 - N (G/R)
25 - L (V)
26

T9 (B) - 24 P

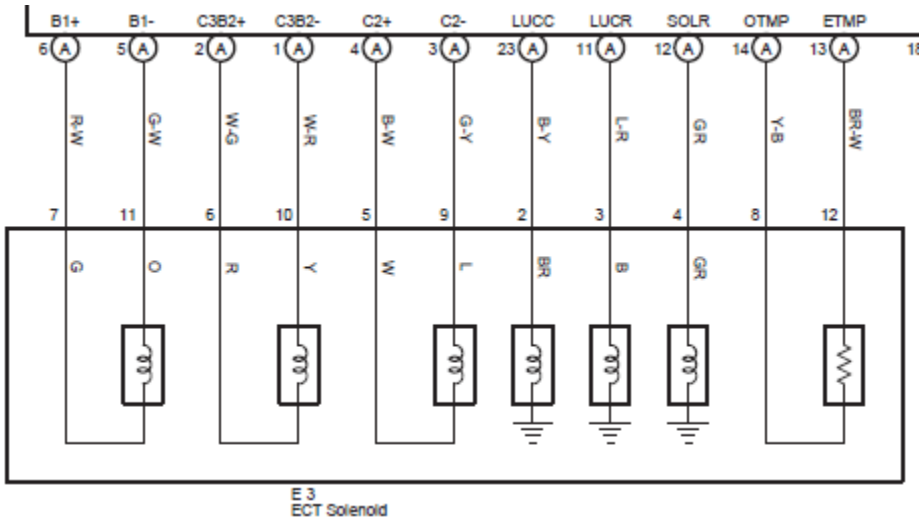
1 - BATT (L/B)
2 - BATT (L/B)
3 - +B (LG)
4 - Engine ECU
5 - E02 (B)
6 - E01 (B)
7 - R (G/W)
8 - Engine ECU
9
10 - CAN H (W)
11 - GE01 (BR)
12 - Engine ECU
13
14
15 - SPD (P)
16
17 - Engine ECU
18 - STP (G/Y)
19
20 - CAN L (V)
21
22 - O/D Sw. (LG/R)
23
24 - E1 (B)

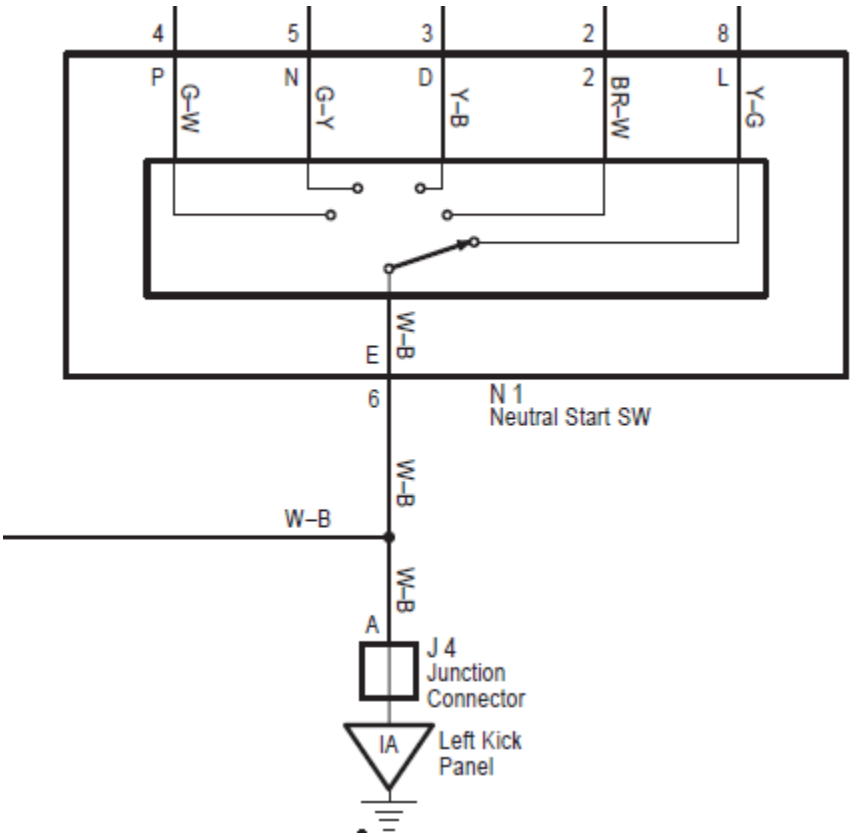


T10 (C) - 30 P

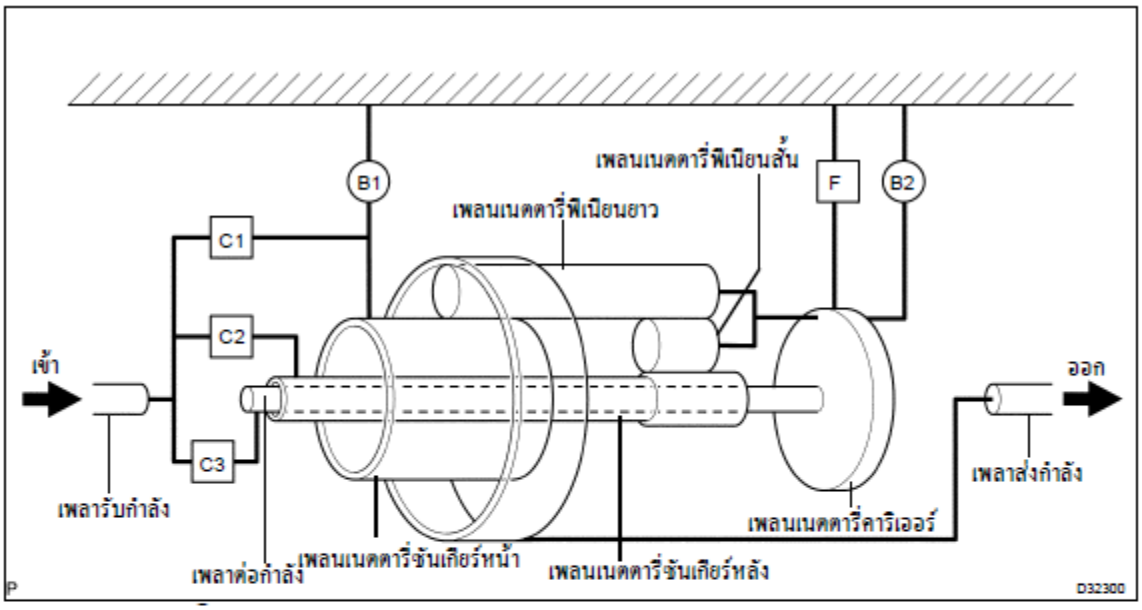
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11	-	DLC3
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22	-	OD Lamp (L/O)
23		
24		
25		
26		
27		
28		
29		
30		

A/T Solenoid


B1+
B1-
C3B2+
C3B2-
C2+
C2-
LUCC
LUCR
SOLR
OTMP
ETMP
6
5
2
1
4
3
23
11
12
14
13
R-W
G-W
W-G
W-R
B-W
G-Y
B-Y
L-R
G-R
Y-B
BR-W
7
11
6
10
5
9
2
3
4
8
12
G
O
R
Y
W
L
BR
B
GR
E 3
ECT Solenoid


4
5
3
2
8
P
N
D
2
L
G–W
G–Y
Y–B
BR–W
Y–G
E
W–B
6
N 1
Neutral Start SW
W–B
W–B
W–B
A
J 4
Junction
Connector
IA
Left Kick
Panel

A/T A4Q - Avanza



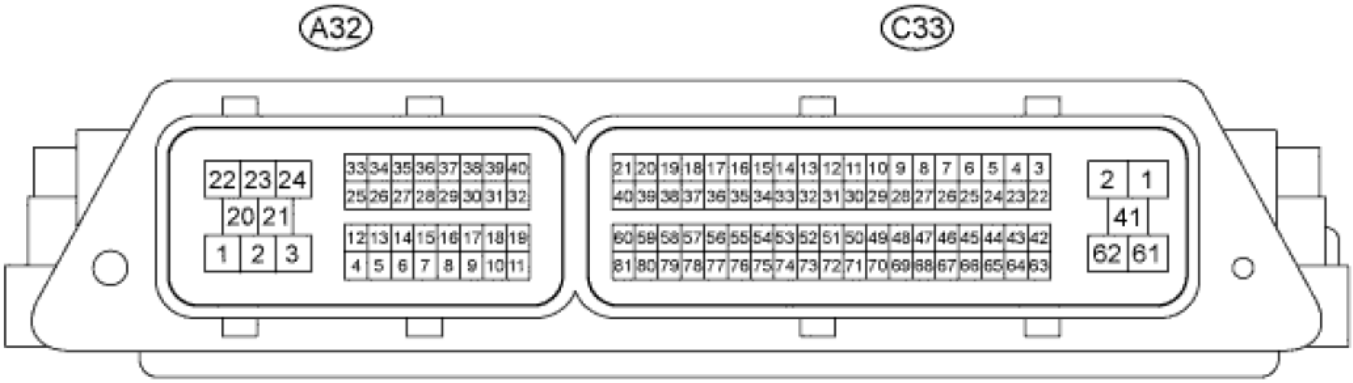
C1	คลัตช์เกียร์ถอย	ต่อเพลารับกำลังเข้ากับเพลนเนตตารี่ซันเกียร์หน้า
C2	คลัตช์หน้า	ต่อเพลารับกำลังเข้ากับเพลนเนตตารี่ซันเกียร์หลัง
C3	คลัตช์หลัง	ต่อเพลารับกำลังเข้ากับเพลาตัวกลาง
B1	เบรกเกียร์ 2 และ 4	ป้องกันเพลนเนตตารี่ซันเกียร์หน้าหมุนทั้งตามเข็มและทวนเข็มนาฬิกา
B2	เบรกเกียร์ 1 และเกียร์ถอย	ป้องกันเพลนเนตตารี่คาริเออร์หมุนทั้งตามเข็มและทวนเข็มนาฬิกา
F	คลัตช์ทางเดียว	ป้องกันเพลนเนตตารี่คาริเออร์หมุนทวนเข็มนาฬิกา

ตำแหน่งคันเกียร์		คลัตช์			เบรก		คลัตช์ทางเดียว
P		C1	C2	C3	B1	B2	F
R		O					
N						O	
D	เกียร์ 1		O				O
	เกียร์ 2		O		O		
	เกียร์ 3		O	O			
	เกียร์ 4			O	O		
2	เกียร์ 1		O				O
	เกียร์ 2		O		O		
L	เกียร์ 1		O			O	O

O: การทำงาน

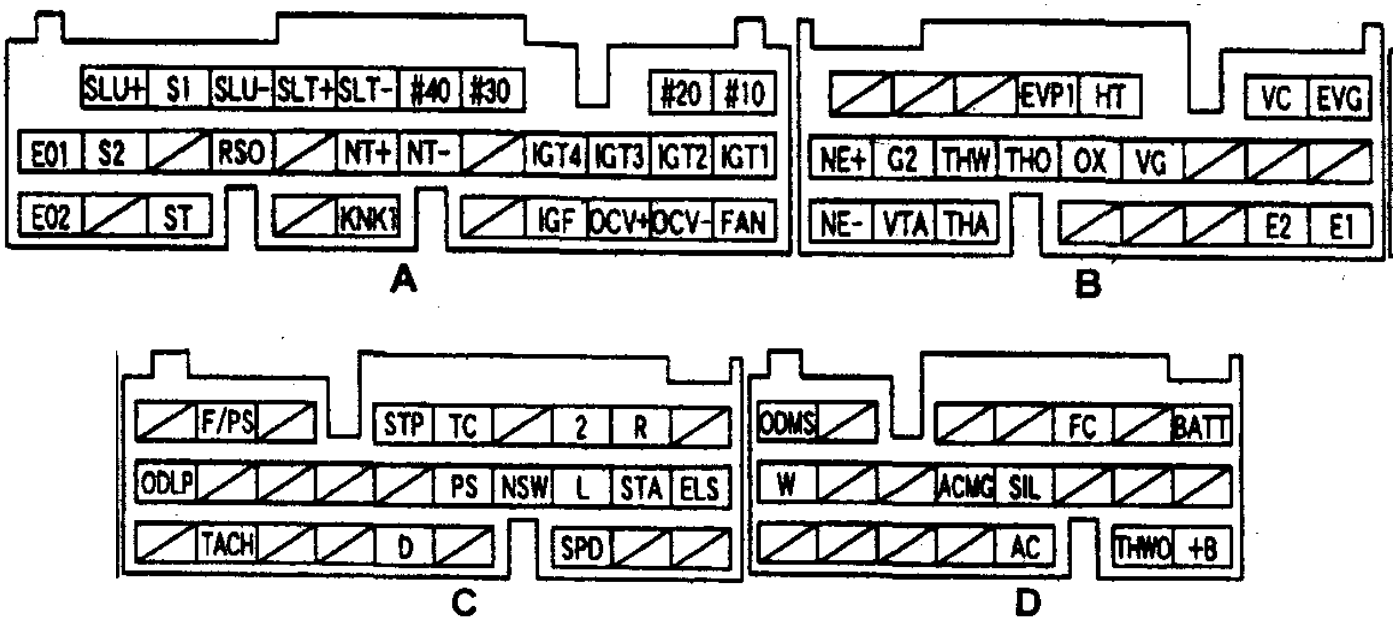
1KR-FE (1.0) 3 Cyl

Toyota Aygo , Citroen C1 , Peugeot 107 , Daihatsu Sirion , Subaru Justy

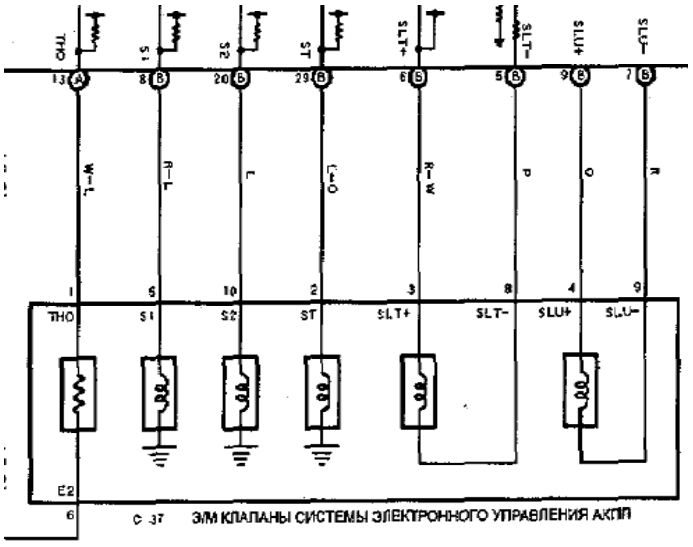


A32 - 40 P	C33 - 81 P

1ZZ-FE , 2ZZ-FE – Altis (ZZE121) , คันเร่งสาย , A/T 9 เส้น



A/T Solenoid 9 เส้น



1ZZ-FE , 3ZZ-FE (89661-02860) – Altis (ZZE121-2000)
คันเร่งสาย , A/T 9 เส้น

E9 (D) – หน้าปลั๊ก

#10 (Y)	#20 (B)				#30 (W)	#40 (L)	SLT- (P)	SLT+ (R/W)	SL1+ (G)	S1 (R/Y)	SL (L/W)
IGT1 (R/L)	IGT2 (Y/G)	IGT3 (GR)	IGT4 (W)		NT- (B)	NT+ (W)	*	RSO (B/L)	*	S2 (L)	E01 (W/B)
FAN (LG/B)	OCV- (B/Y)	OCV+ (Y)	IGF (L/Y)			KNK (B)			ST (L/O)	*	E02 (W/B)

E8 (C) – หน้าปลั๊ก

EVG (L/W)	VC (Y)		HT1A (Y/R)	EVAP (L/B)	NEO (G/W)	OVL- (L/B)	OVL+ (L/W)	
E03 (W/B)	EFI- (G)	EFI+ (R)	VG (G)	OX1A (B)	THO (W/L)	THW (W)	G2 (B)	NE+ (B)
E1 (BR)	E2 (BR)	TRC- (W)	TRC+ (B)	*		THA (Y/B)	VTA (LG)	NE- (W)

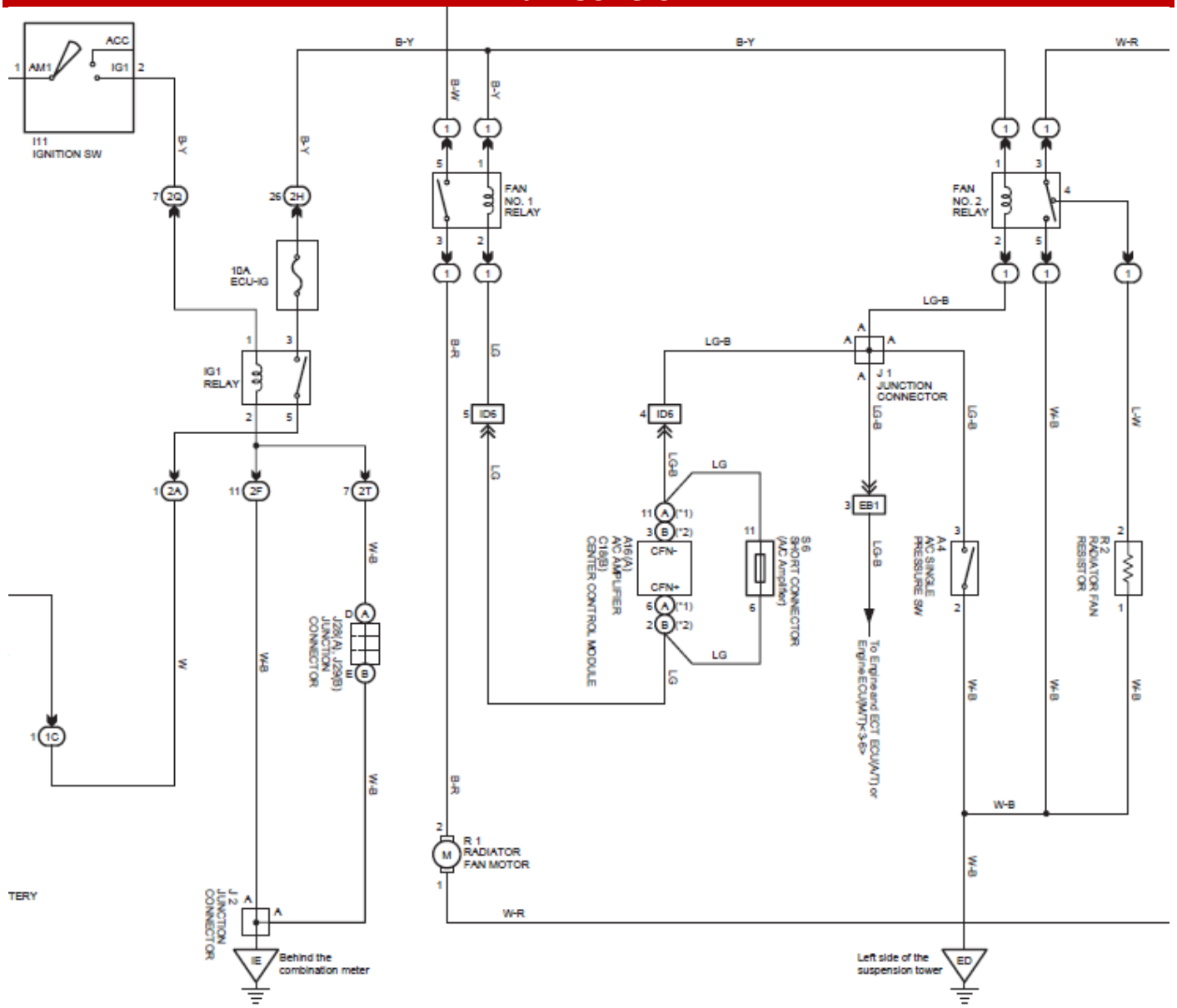
E7 (A) – หน้าปลั๊ก

*	R (R/B)	2 (LG/R)	*	TC (P/B)	STP (G/W)		CODE (P)	SRS (Y)	ACIS (R/L)
ELS (G)	STA (B/W)	L (LG/B)	NSW (B/R)	PSST (L/R)	TXCT (G)	HT2 (P/L)	KSW (L/B)	PRE (O)	ODLP (LG)
ELS2 (W/R)	MREL (B/W)	SPD (V/W)		PWR (L/O)	D (L/B)	OX2 (W)	RXCK (V)	TACH (B)	LCK1 (G)

E6 (B) – หน้าปลั๊ก

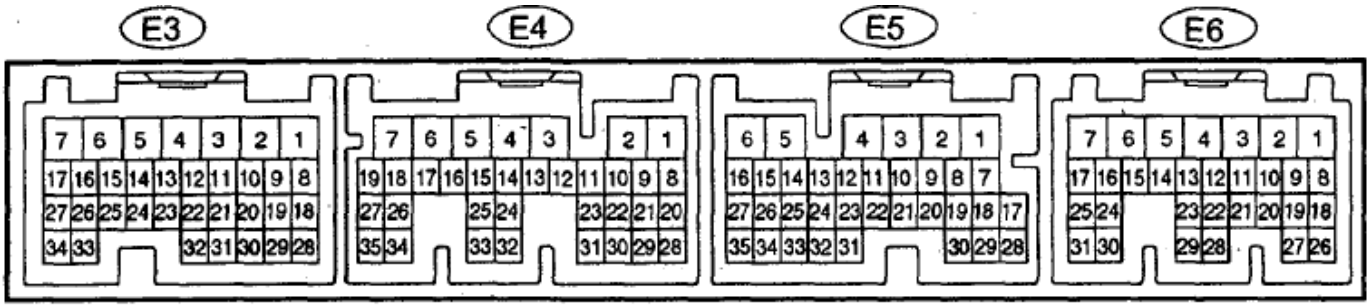
BATT (R/W)	IMLD (W/R)	FC (G/R)	*	EOM (W/B)		*	ODMS (LG)
IGSW (B/O)	*	*	SIL (L/R)	*	3 (L/W)	*	W (R/Y)
+B (B)	THWO (Y/G)		AC (Y/R)	*	*	ACT (R/L)	EC (W/B)

Fan Control



1ZZ-FE , 2ZZ-FE , 1NZ-FE

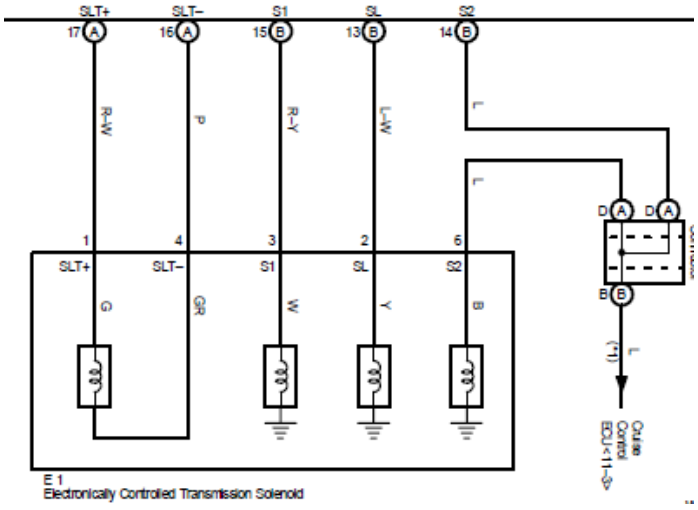
Corolla Altis 2004 (ZZE130) คันเร่งสาย , A/T 5 เส้น



E 3 (A) 34 P หลังปลั๊ก	E 4 (B) 35 P
1 - #10 (Y)	1 - KNK1 (B)
2 - # 20 (B)	2 - EKNK (W)
3 - # 30 (W)	3
4 - # 40 (L)	4 - HT1A (P)
5 - RSO (B/L)	5 - E03 (W/B)
6 - E02 (W/B)	6
7 - E01 (W/B)	7 - E1 (BR)
8 - IGT1 (R/L)	8 - NSW (R)
9 - IGT2 (Y/G)	9 - STA (B)
10 - IGT3 (GR)	10
11 - IGT4 (W)	11
12 - EVP (L/B)	12
13 - HP (Y/B) , Pressure Sw. -	13 - SL (L/W)
14 - OCV- (B/Y)	14 - S2 (L)
15 - OCV+ (Y)	15 - S1 (R/Y)
16 - SLT- (P)	16
17 - SLT+ (R/W)	17
18 - VC (Y)	18
19 - THW (W)	19
20 - THA (Y/B)	20
21 - VTA (LG)	21 - OX1B (W)
22	22
23 - IGF (L/Y)	23 - OX1A (B)
24	24 - VG (G)
25	25
26 - G2 (B)	26
27 - NE+ (B)	27
28 - E2 (BR)	28 - EC (W/B)
29	29 - PSW (L/R) , -
30	30
31	31
32	32 - EVG (L/W)
33	33
34 - NE- (W)	34
	35

E 5 (C) 35 P	E 6 (D) 31 P
1 - CCV (L)	1 - + B (B)
2 - ACMG	2
3	3 - BATT (R/W)
4 - HT1B (P/B)	4 - TBP (R)
5	5 - TACH (B)
6	6 - CF (LG)
7 - ODLP (LG)	7 - FAN (LG/B)
8 - L (LG/B)	8
9 - 2 (LG)	9
10	10 - FC (G/R)
11 - R (R/B)	11 - W (R/Y)
12	12 - ELS1 (G)
13	13 - ELS2 (W)
14 - THWO (Y/R) , Instrument	14 - F/PS (Y)
15	15
16	16 - IDLO (L/W)
17 - SPD (V/W)	17
18 - OD1 (R/Y)	18 - SIL (L/R)
19 - STP (G/W)	19 - WFSE (P)
20	20 - TC (P/B)
21	21 - PTNK (L)
22	22
23	23
24	24
25	25
26	26
27	27
28 - EC (W/B)	28
29 - ODMS (LG/B)	29
30	30
31 - A/CS (Y/B)	31
32 - THR (Y) , EVAP Temp.	
33 - ACLD (G/W)	
34	
35	

A/T Solenoid



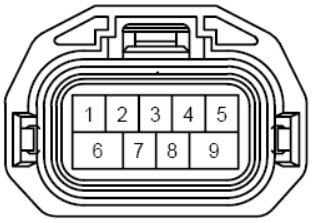
E 1
Gray



SLT+ (R/W)	**SL (L/W)**	**S1 (R/Y)**
SLT- (P)	*	**S2 (L)**

A/T Position Switch

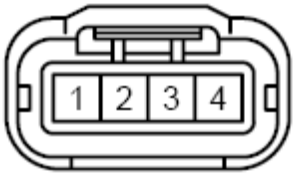
A 2
Gray



	R (R/B)	**IG (R/W)**	**2 (LG)**	
STA (B)		**L (LG/B)**		**NSW (R)**

Ignition Coil

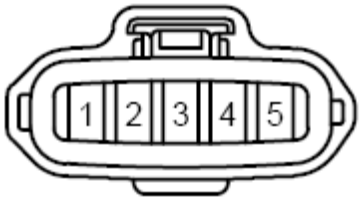
I 2
Brown



+B	IGF	IGT	E1

Air Flow Sensor

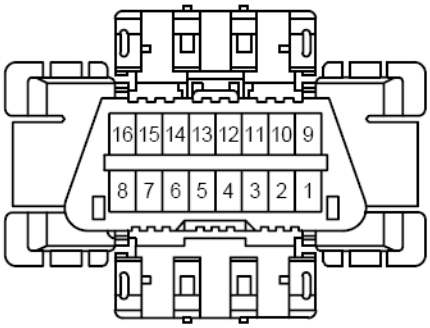
M 1
Black



+B	E2G	VG	THA	E2

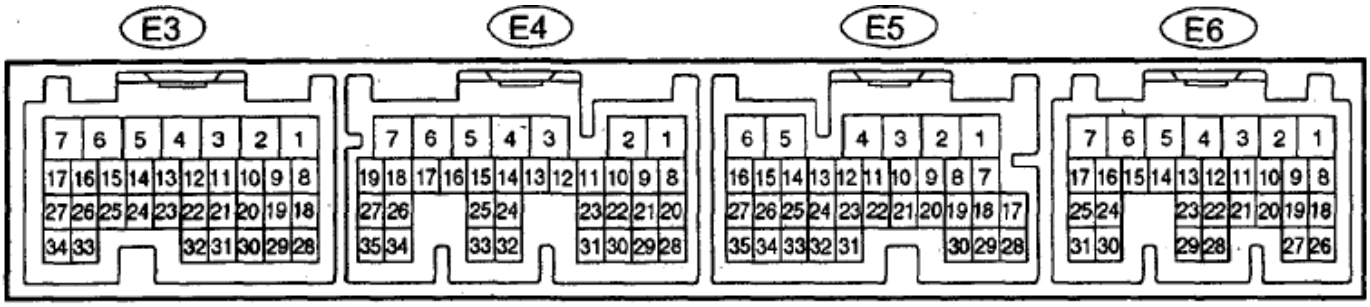
DCL 3

D 1



BATT	WFSE	CAN L	TC	TS	A/B		TACH
	SIL	CAN H	SG	CG			

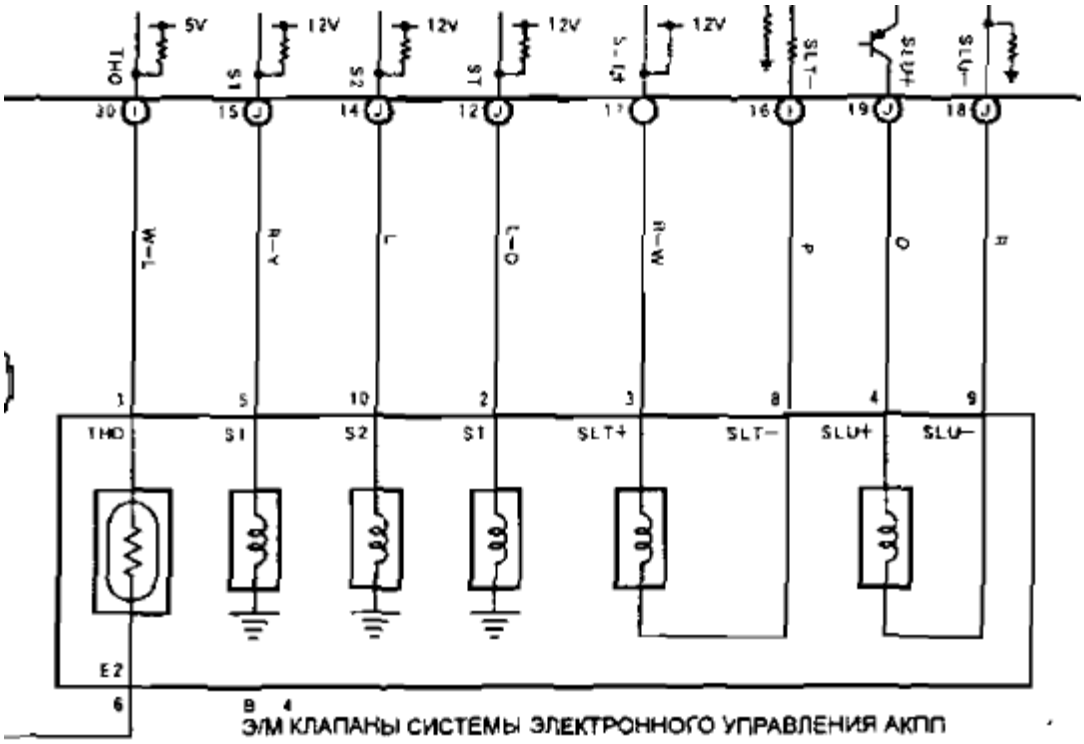
1ZZ-FE Corolla Spacio 2001 - คันเร่งสาย , A/T 9 เส้น



E 3 (I) 34 P หลังปลั๊ก	E 4 (J) 35 P
1 - #10 (Y)	1 - KNK1 (B)
2 - # 20 (B)	2 - EKNK (W)
3 - # 30 (W)	3
4 - # 40 (L)	4 - HT1A (P)
5 - RSO (B/L)	5 - E03 (W/B)
6 - E02 (W/B)	6
7 - E01 (W/B)	7 - E1 (BR)
8 - IGT1 (R/L)	8 - NSW (R)
9 - IGT2 (Y/G)	9 - STA (B)
10 - IGT3 (GR)	10
11 - IGT4 (W)	11
12 - EVP (L/B)	12 - ST (L/O)
13 - HP (Y/B) , Pressure Sw. -	13 - SL (L/W)
14 - OCV- (B/Y)	14 - S2 (L)
15 - OCV+ (Y)	15 - S1 (R/Y)
16 - SLT- (P)	16
17 - SLT+ (R/W)	17
18 - VC (Y)	18 - SLU- (R)
19 - THW (W)	19 - SLU+ (O)
20 - THA (Y/B)	20
21 - VTA (LG)	21 - OX1B (W)
22	22
23 - IGF (L/Y)	23 - OX1A (B)
24	24 - VG (G)
25	25
26 - G2 (B)	26
27 - NE+ (B)	27 - NT+ (W)
28 - E2 (BR)	28 - EC (W/B)
29	29 - PSW (L/R) , -
30 - THO (W/L)	30
31	31
32	32 - EVG (L/W)
33	33
34 - NE- (W)	34
	35 - NT- (B)

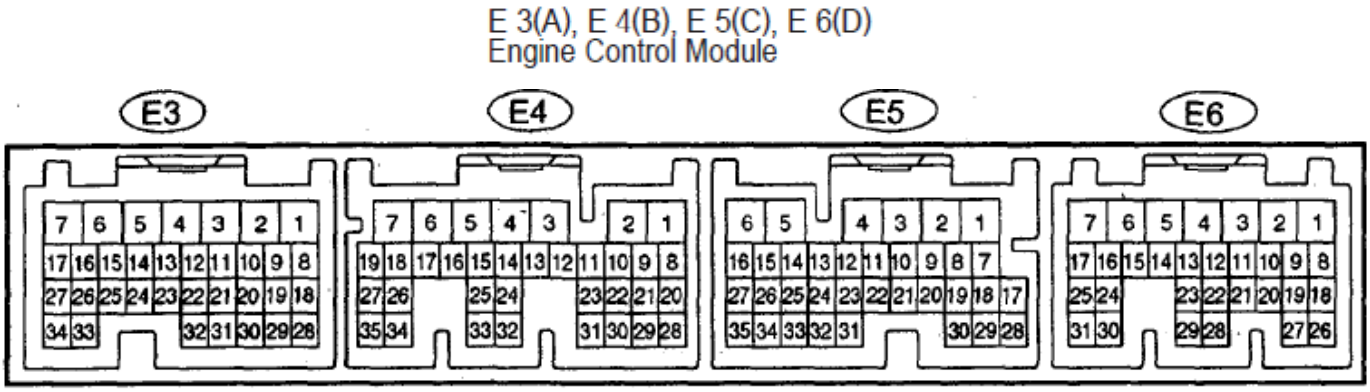
E 5 (K) 35 P	E 6 (L) 31 P
1 - CCV (L)	1 - + B (B)
2 - ACMG	2
3	3 - BATT (R/W)
4 - HT1B (P/B)	4 - TBP (R)
5	5 - TACH (B)
6	6 - CF (LG)
7 - ODLP (LG)	7 - FAN (LG/B)
8 - L (LG/B)	8
9 - 2 (LG)	9
10	10 - FC (G/R)
11 - R (R/B)	11 - W (R/Y)
12	12 - ELS1 (G)
13	13 - ELS2 (W)
14 - THWO (Y/R) , Instrument	14 - F/PS (Y)
15	15
16	16 - IDLO (L/W)
17 - SPD (V/W)	17
18 - OD1 (R/Y)	18 - SIL (L/R)
19 - STP (G/W)	19 - WFSE (P)
20	20 - TC (P/B)
21	21 - PTNK (L)
22	22
23	23
24	24
25	25
26	26
27	27
28 - EC (W/B)	28
29 - ODMS (LG/B)	29
30	30
31 - A/CS (Y/B)	31
32 - THR (Y) , EVAP Temp.	
33 - ACLD (G/W)	
34	
35	

A/T Solenoid 9 เส้น



ЭЛМ КЛАПАНЫ СИСТЕМЫ ЭЛЕКТРОННОГО УПРАВЛЕНИЯ АКПП

1ZZ-FE - Corolla 2006 , คันเร่งไฟฟ้า , A/T 10 เส้น + -



E 3 (A) 34 P

1 - #10 (Y)
2 - #20 (B)
3 - #30 (W)
4 - #40 (L)
5 - E1 (BR)
6 - E02 (W/B)
7 - E01 (W/B)
8 - IGT1 (R/L)
9 - IGT2 (Y/G)
10 - IGT3 (GR)
11 - IGT4 (W)
12 - OC1- (B/Y)
13 - OC1+ (Y)
14 - FAN (LG/B) , Fan No.2 HI
15
16 - NSW (R)
17 - STA (B)
18 - VC (Y)
19 - THW (W)
20 - THA (Y/B)
21 - VTA1 (LG)
22
23
24 - IGF1 (L/Y)
25
26
27 - VPMP (R) , Canister Pump
28 - E2 (BR)
29 - EGV (L/W)
30 - VG (G)
31 - VTA2 (LG)
32
33
34 - PRG (L/B)

E 4 (B) 35 P

1 - KNK (B)
2 - ME01 (W/B)
3 - M- (W)
4 - M+ (B)
5 - HA1A (P)
6 - E03 (W/B)
7 - E04 (W/B)
8 - PSW (L/R) , -
9 - S2 (L)
10 - SL (L/W)
11 - S1 (R/Y)
12 - SLT- (P)
13 - SLT+ (R/W)
14 -
15 -
16 - CF (LG) , Fan No.1 LO
17 - GE01
18
19 -
20
21 - HT1B (P/B)
22
23 - A1A+ (B)
24 - G2+ (B)
25 - NE+ (B)
26
27 - NT+ (B)
28 - EKNK (W)
29 - OX1B (W)
30
31 - A1A- (W)
32 -
33 - NE- (W)
34
35 - EC (W/B)

E 5 (C) 35 P

1 - HP (Y) , A/C System – Pressure Sw. -
2 - ACMG (Y/B)
3
4 -
5 -
6 - +BM (B/R)
7 - ODLP (LG)
8 - L (LG/B) , +
9 - 2 (LG)
10 - D (L)
11 - R (R/B)
12 - ST1- (G/O)
13 - PI (G/R) , Cruise Control
14 - THWO (Y/R) , Combination meter
15
16
17 - SPD (V/W)
18
19 - STP (G/W)
20
21
22
23
24 - CCS (G/Y)
25
26 - IMO (B)
27 - IMI (W)
28 - A/CS (Y) , A/C System
29 - ODMS (LG/B)
30
31
32 - THE (B/L) , A/C System
33 - ACLD (G/W) , A/C System
34
35

E 6 (D) 31 P

1 - +B (B)
2
3 - BATT (R/W)
4 - MPMP (GR) , Canister pump
5 - TACH (B)
6
7
8 - MREL (B/W)
9 - IGSW (B/O)
10 - FC (G/R)
11 - W (R/Y)
12 - ELS1 (G)
13 - ELS2 (W)
14 - F/PS (Y)
15 - EOM (W/B)
16
17 - NEO (R/Y) , ABS
18 - SIL (L/R)
19 - WFSE (P)
20 - TC (P/B)
21 - PPMP (L) , Canister pump
22 - VPA (G)
23 - VPA2 (W)
24 - ENG+ (B/W) , ABS
25 - VSC+ (R/W) , ABS
26 - VCPA (B)
27 - VCP2 (B)
28 - EPA (Y)
29 - EPA2 (Y)
30 - ENG- (L)
31 - VSC- (W)

1ZZ-FE - OPA (89661-13100) , A/T 9 เส้น , คันเร่งสาย

E5 (C) 31 P – หน้าปลั๊ก

#10 (R)	#20 (W/R)		#30 (R/W)	#40 (W/L)	SLT- (R/L)	SLT+ (R/B)	SLU- (L/R)	S1 (G/B)		SLU+ (G/W)
IGT1 (V)	IGT2 (GR)	IGT3 (W)	IGT4 (B/O)	*	NT- (Y)	NT+ (Y/G)	*	RSO (G/R)	*	S2 (G/Y)	E01 (W/B)
FAN (G/W)	OCV- (Y/B)	OCV+ (W/G)	IGF (R/Y)	*		KNK (W)	*		ST (L/B)	*	E02 (W/B)

E4 (A) 24 P – หน้าปลั๊ก

EVG (L/Y)	VC (L)		HT1A (Y/B)	EVAP (W/G)	*	RL (G/Y)	*	
*	*	*	VG (G)	OX1A (B/Y)	THO (Y/G)	THW (B/W)	G2 (L)	NE+ (O)
E1 (BR)	E2 (BR)	*	*	MPX2 (R/W)		THA (GR)	VTA (L/W)	NE- (R/Y)

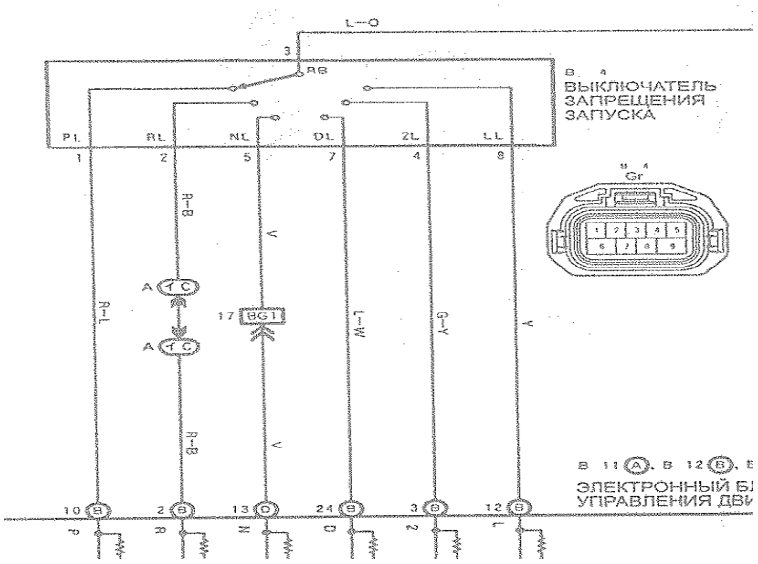
E3 (B) 28 P – หน้าปลั๊ก

*	R (R/B)	2 (G/Y)	*	TC (P/B)	STP (G/W)		*	F/PS (L/O)	*
P (R/L)	STA (GR)	L (Y)	*	PSST (G)	*	*	*	*	ODLP (W/G)
	*	SPD (W/R)		*	D (L/W)	*	*	TACH (W/L)	LCK1 (Y/B)

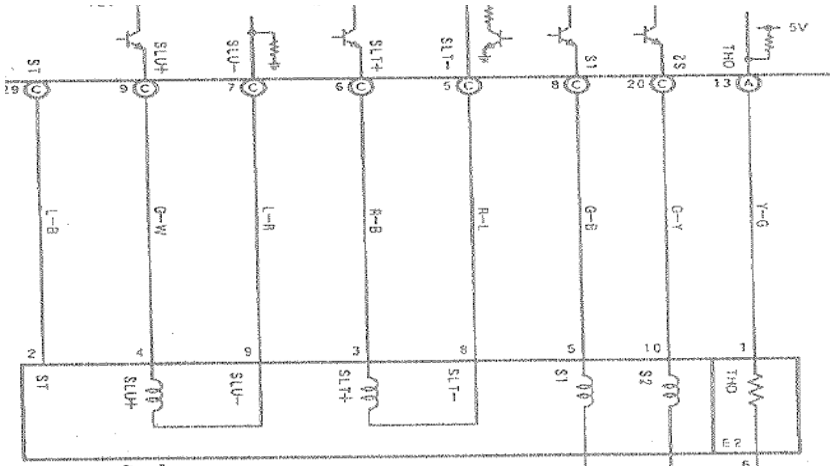
E2 (D) 22 P – หน้าปลั๊ก

BATT (R/W)	*	FC (W/G)				MPX1 (L/R)	ODMS (GR)
		*	SIL (W)	ACMG (B)	N (V)		W (G)
+B (B)			*	*	*	*	

A/T Position Sw.



A/T Solenoid 9 เส้น



1ZZ-FE - Celica 2001 , A/T 8 เส้น , คันเร่งสาย

E5 (C) 31 P – หน้าปลั๊ก

#10 (R)	#20 (R/L)			#30 (R/W)	#40 (R/B)	SLT- (Y/G)	SLT+ (Y/R)	*	S1 (BR/Y)	*	
IGT1 (R/B)	IGT2 (R/W)	IGT3 (G/R)	IGT4 (R/Y)	*	NT- (B)	NT+ (W/L)	*	RSO (B/W)	SL (G/W)	S2 (Y)	E02 (W/B)
MOPS (Y/B)	OCV- (W)	OCV+ (G/O)	IGF (B/Y)	*		KNK (GR)	*		ST (BR/W)	*	E01 (W/B)

E4 (D) 24 P – หน้าปลั๊ก

EVG (Y/G)	VC (R)		HT1A (Y/R)	EVAP (G/O)	*	OVL- (L/B)	OVL+ (L/W)	
N (P/L)	L (Y/B)	RL (Y)	VG (G/W)	OX1A (B)	THO (GR/L)	THW (G)	G2 (L)	NE+ (O)
E1 (BR)	E2 (BR)	2 (L/Y)	P (P)	VVT Oil Sw. (GR)		THA (L/R)	VTA (B/W)	NE- (W)

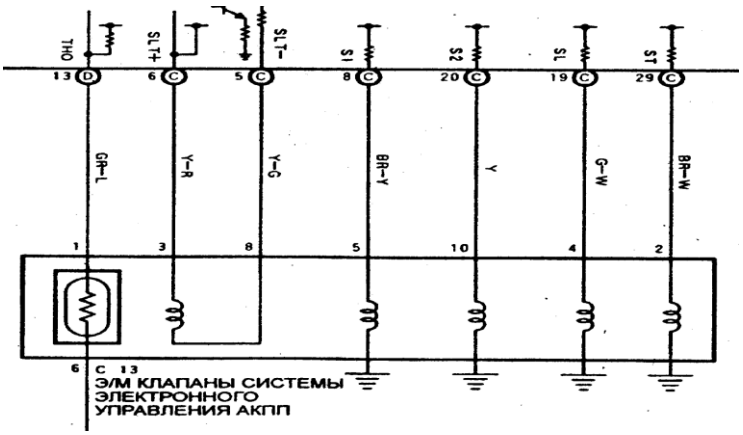
E3 (A) 28 P – หน้าปลั๊ก

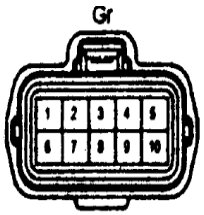
*	R (R/B)	CF Fan 3 (L/W)	FAN Fan 1 (L/Y)	TC (P/B)	STP (G/W)	*	SRS (P)	ACIS (R/L)
MPX1 (LG/R)	STA (L)	EC (W/B)	*	*	*	*	PRE (O)	ODLP (BR/Y)
*	MREL (L/B)	SPD (W/R)		*	D (G/O)	*	TACH (BR/W)	LCK1 (G)

E2 (B) 22 P – หน้าปลั๊ก

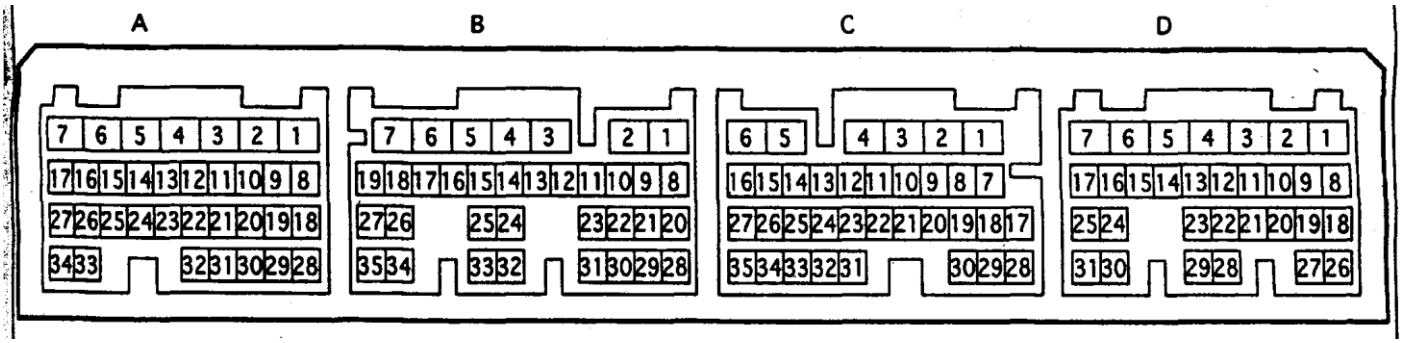
BATT (W)	*	FC (G/R)	*	ODMS (BR/Y)		MPX2 (LG/R)	*
IGSW (B/O)	*	*	SIL (W)	ACMG (Y/B)	*	*	W (R/B)
+B (B/R)	*		*	*	*	*	*

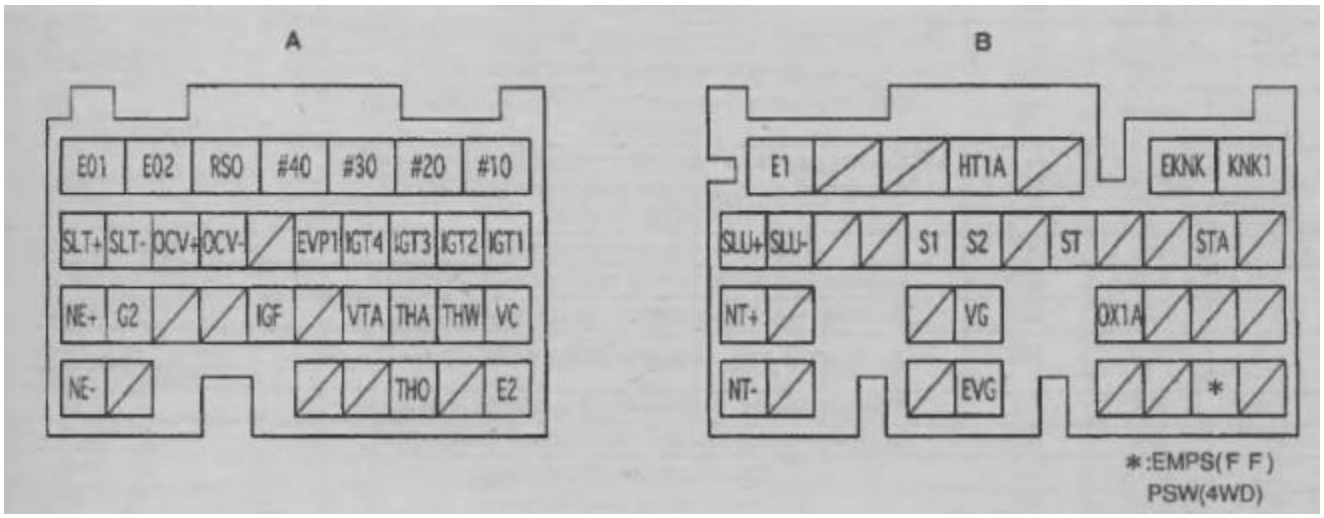
A/T Solenoid

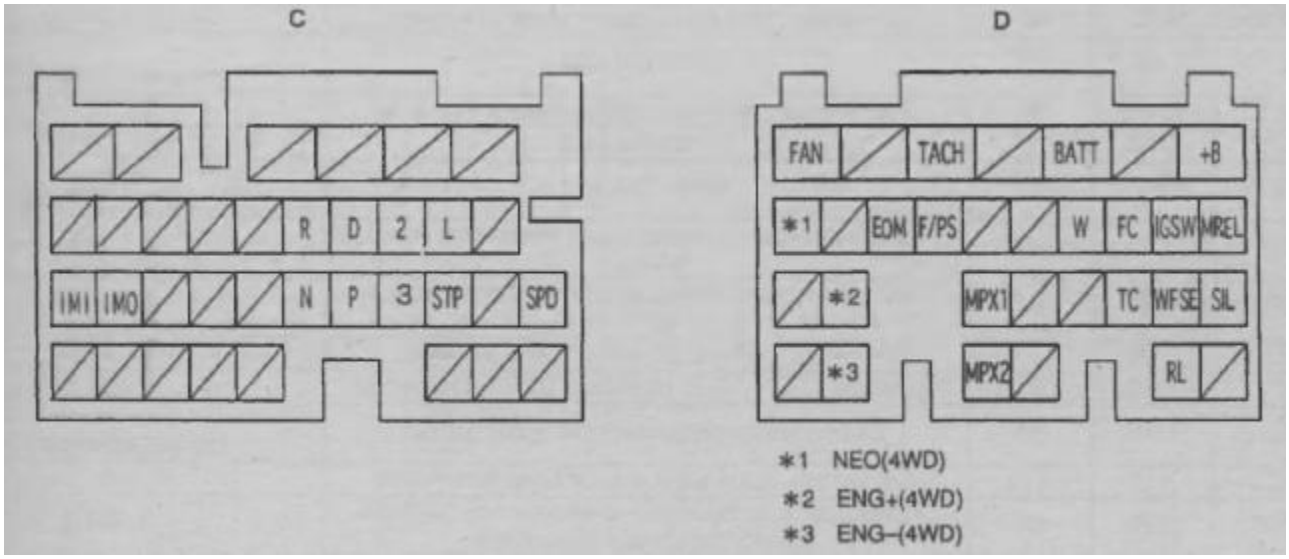




1ZZ-FE - Wish 2005 , 2WD (89661-68010) คันเร่งสาย , คันเกียร์สไลด์



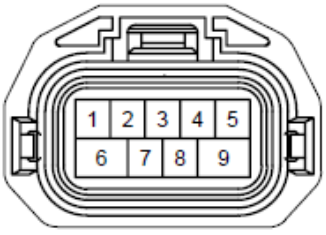




B 34 (A) 34 P	B 33 (B) 35 P
1 - #10 (R)	1 - KNK (W)
2 - #20 (W/R)	2 - EKNK (B)
3 - #30 (R/W)	3
4 - #40 (W/L)	4 - HT1A (Y/B)
5 - RSO (G/R)	5
6 - E02 (W/B)	6
7 - E01 (W/B)	7 - E1 (BR)
8 - IGT1 (Y)	8
9 - IGT2 (G)	9 - STA (GR)
10 - IGT3 (G/B)	10
11 - IGT4 (B/O)	11
12 - EVP1 (L/R)	12 - ST (L/B)
13	13
14 - OCV- (B/Y)	14 - S2 (G/Y)
15 - OCV+ (W/G)	15 - S1 (G/B)
16 - SLT- (R/L)	16
17 - SLT+ (R/B)	17
18 - VC (L)	18 - SLU- (L/R)
19 - THW (B/W)	19 - SLU+ (G/W)
20 - THA (GR)	20
21 - VTA (G/W)	21
22	22
23 - IGF (R/Y)	23 - OX1A (B)
24	24 - VG (G)
25	25
26 - G2 (B)	26
27 - NE+ (B)	27 - NT+ (B)
28 - E2 (BR)	28
29	29 - PSST (R/L)
30 - THO (Y/G)	30
31	31
32	32 - E2G (L/Y)
33	33
34 - NE- (W)	34
	35 - NT- (Y)

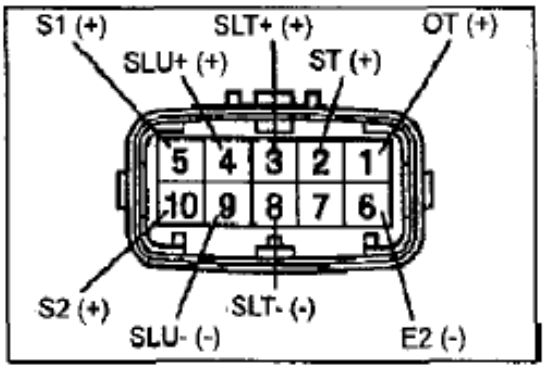
B 32 (C) 34 P	F 60 (D) 31 P
1 -	1 - +B (R/L)
2	2
3	3 - BATT (B/Y)
4	4
5	5 - TACH (B/W)
6	6
7	7 - FAN (G/W)
8 - L (Y)	8 - MREL (B)
9 - 2 (G/Y)	9 - IGSW (B/R)
10 - D (L/W)	10 - FC (W/G)
11 - R (R/B)	11 - W (G)
12	12
13	13
14	14 - F/PS (B)
15	15
16	16
17 - SPD (Y/G)	17 - NEO (P)
18	18 - SIL (W)
19 - STP (G/W)	19 - WFSE (R/Y)
20 - 3 (L/B)	20 - TC (P/B)
21 - P (R/L)	21
22 - N (V)	22
23	23 - MPX1 (G/R)
24	24 - ENG+ (B)
25	25
26	26
27	27 - RL (G/Y)
28	28
29	29 - MPX2 (R/W)
30	30 - ENG- (W)
31	31
32	
33	
34	

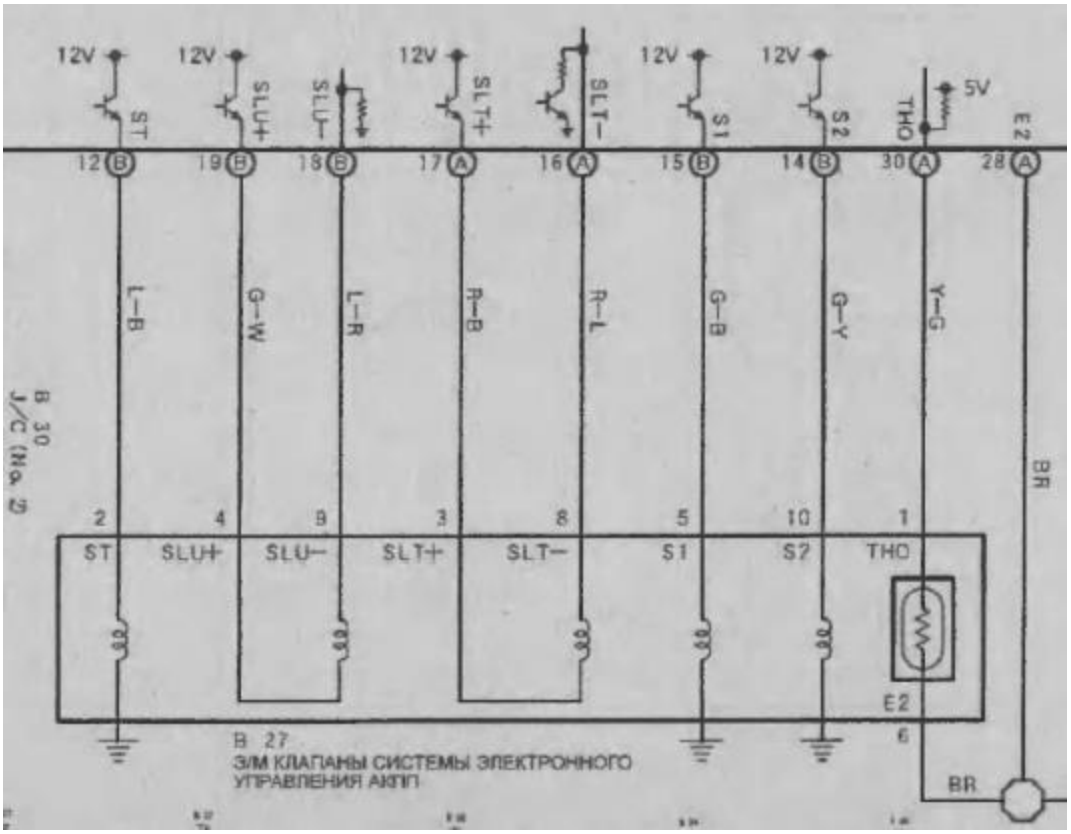
A/T Position Sw.



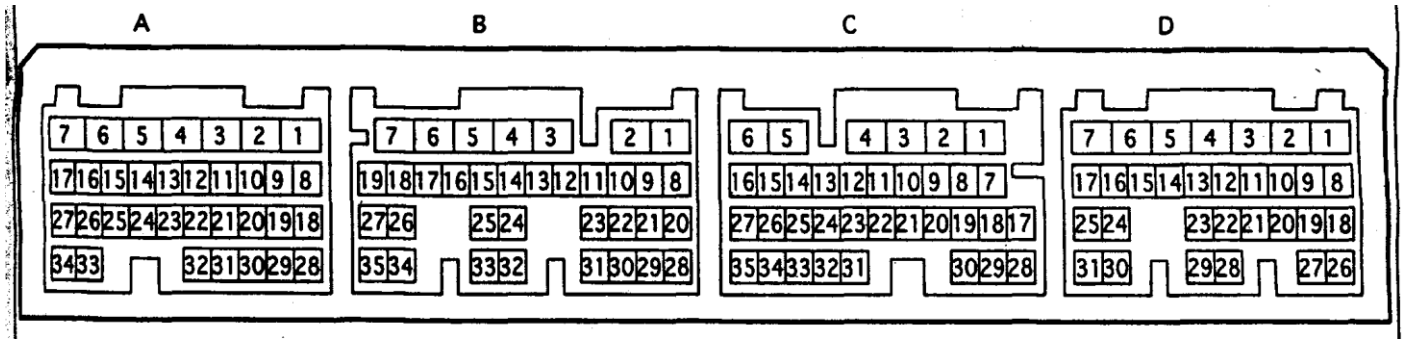
P (R/L)	R (R/B)	IG (L/Y)	2 (G/Y)	N (V)
E1 (W/B)	D (L/Y)	L (Y)	STA (B)	

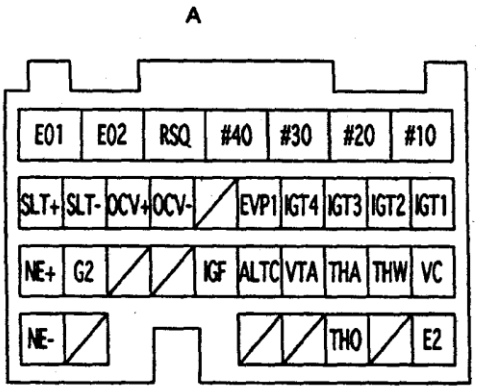
A/T Solenoid 9 เส้น

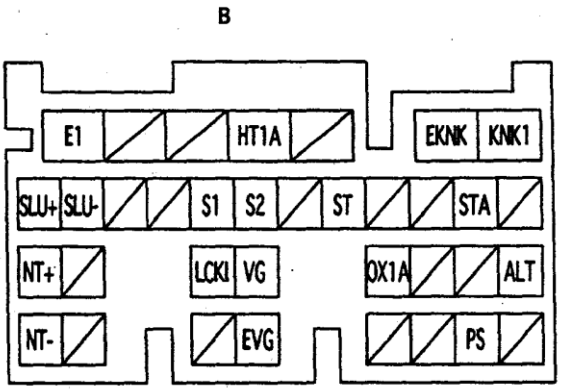


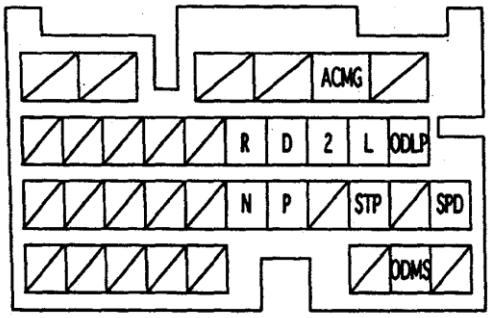


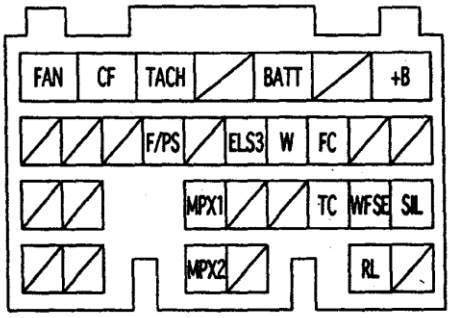
1ZZ-FE - Premio 2001









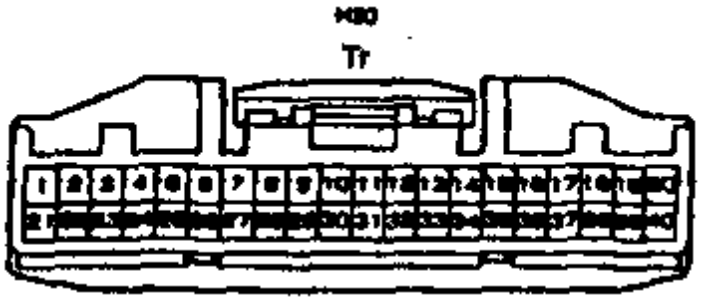


B 34 (D) 34 P	B 33 (C) 35 P
1 - #10 (R)	1 - KNK (W)
2 - #20 (W/R)	2 - EKNK (B)
3 - #30 (R/W)	3
4 - #40 (W/L)	4 - HT1A (Y/B)
5 - RSO (G/R)	5
6 - E02 (W/B)	6
7 - E01 (W/B)	7 - E1 (BR)
8 - IGT1 (Y)	8
9 - IGT2 (G)	9 - STA (GR)
10 - IGT3 (G/B)	10
11 - IGT4 (B/O)	11
12 - EVP1 (L/R)	12 - ST (L/B)
13	13
14 - OCV- (B/Y)	14 - S2 (G/Y)
15 - OCV+ (W/G)	15 - S1 (G/B)
16 - SLT- (R/L)	16
17 - SLT+ (R/B)	17
18 - VC (L)	18 - SLU- (L/R)
19 - THW (B/W)	19 - SLU+ (G/W)
20 - THA (GR)	20 - ALT (L)
21 - VTA (G/W)	21
22 - ALT (B/R)	22
23 - IGF (R/Y)	23 - OX1A (B)
24	24 - VG (G)
25	25
26 - G2 (B)	26
27 - NE+ (B)	27 - NT+ (B)
28 - E2 (BR)	28
29	29 - PSST (R/L)
30 - THO (Y/G)	30
31	31
32	32 - E2G (L/Y)
33	33
34 - NE- (W)	34
	35 - NT- (Y)

B 32 (B) 34 P	F 60 (A) 31 P
1 -	1 - +B (R/L)
2 - ACMG (G/R)	2
3	3 - BATT (B/Y)
4	4
5	5 - TACH (B/W)
6	6 - CF (G/B)
7 - ODLP (W/G) , O/D Lamp	7 - FAN (G/W)
8 - L (Y)	8 - MREL (B)
9 - 2 (G/Y)	9 - IGSW (B/R)
10 - D (L/W)	10 - FC (W/G)
11 - R (R/B)	11 - W (G)
12	12
13	13
14	14 - F/PS (B)
15	15
16	16
17 - SPD (Y/G)	17 - NEO (P)
18	18 - SIL (W)
19 - STP (G/W)	19 - WFSE (R/Y)
20	20 - TC (P/B)
21 - P (R/L)	21
22 - N (V)	22
23	23 - MPX1 (G/R)
24	24 - ENG+ (B)
25	25
26	26
27	27 - RL (G/Y)
28	28
29 - ODMS (GR) , O/D Sw. -	29 - MPX2 (R/W)
30	30 - ENG- (W)
31	31
32	
33	
34	

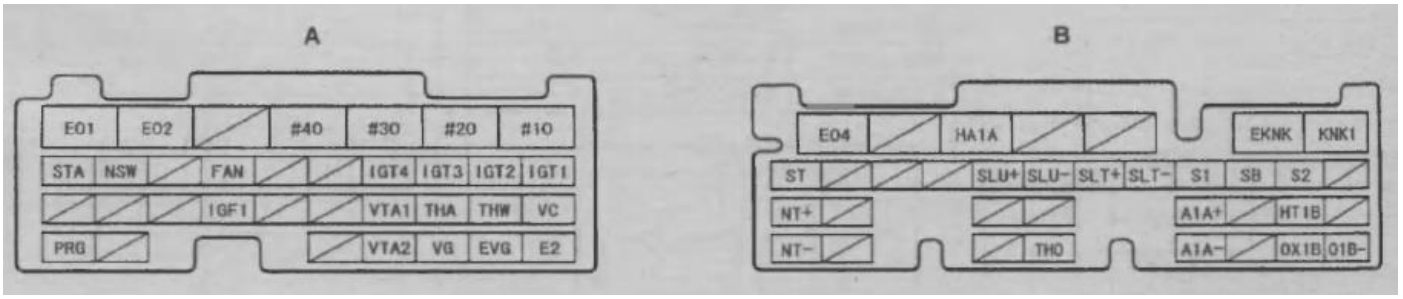
Combination meter - 1ZZ-FE (Premio 2001)

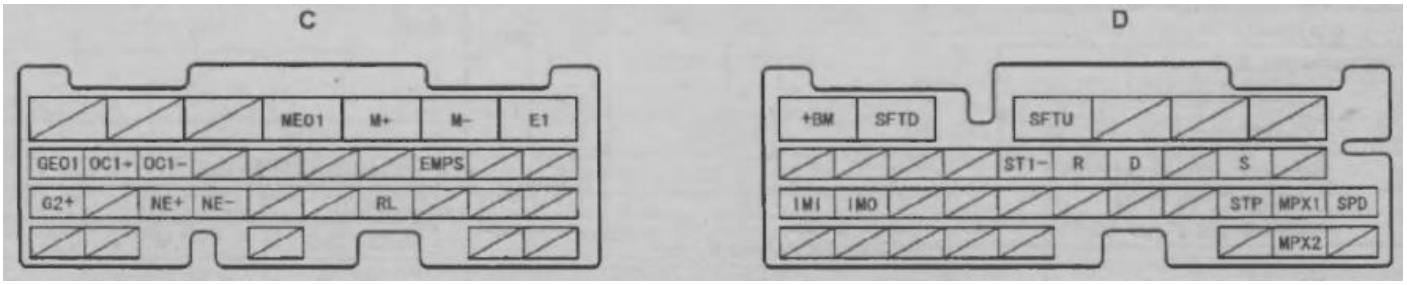
ปลั๊ก H30 – 40 Pin

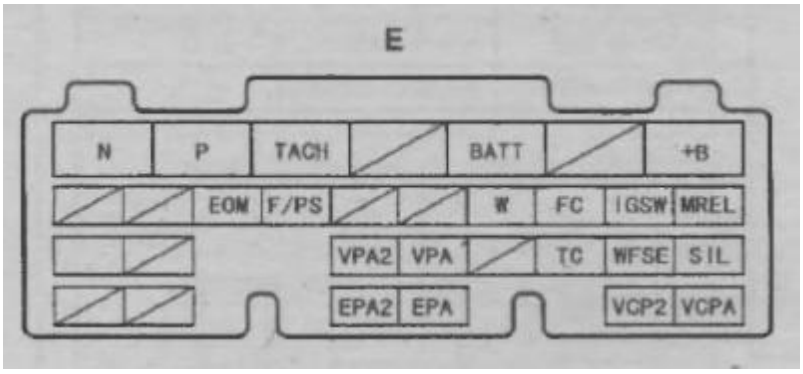


1 - E1 (W/B)	21 - IG (B/R)
2 - BATT (P/L)	22 - IG (L/Y)
3	23
4	24
5	25 - SP1 (Y/G)
6	26 - SPD (L/O)
7 - ODLP (W/G)	27 - SNOW (W/L)
8 - W (G)	28 - IG- (B/W)
9	29
10	30
11 - Oil Sw. (L/B)	31
12	32
13	33
14	34
15 - MPX+ (GR) , MPX ECU	35
16	36
17	37
18	38
19 - MPX- (R/L)	39
20 - MPX2 (R/W) , Eng ECU	40

1ZZ-FE - Wish 2005 คันเร่งไฟฟ้า , A/T 10 เส้น + -







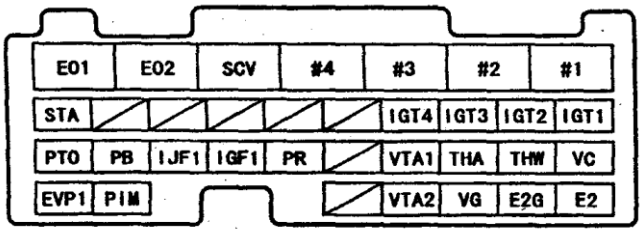
B 34 (C) 34 P	B 33 (C) 35 P
1 - #10 (R)	1 - KNK (W)
2 - #20 (W/R)	2 - EKNK (B)
3 - #30 (R/W)	3
4 - #40 (W/L)	4
5	5 - HA1A (Y)
6 - E02 (W/B)	6
7 - E01 (W/B)	7 - E04 (BR)
8 - IGT1 (Y)	8
9 - IGT2 (G)	9 - S2 (G/Y)
10 - IGT3 (G/B)	10 - SB (G)
11 - IGT4 (B/O)	11 - S1 (G/B)
12	12 - SLT- (R/L)
13	13 - SLT+ (R/B)
14 - FAN (G/W)	14 - SLU- (L/R)
15	15 - SLU+ (G/W)
16 - NSW (B)	16
17 - STA (GR)	17
18 - VC (L)	18
19 - THW (B/W)	19 - ST (L/B)
20 - THA (GR)	20
21 - VTA1 (G/W)	21 - HT1B
22	22
23	23 - A1A+ (P)
24 - IGF1	24
25	25
26	26
27	27 - NT+ (B)
28 - E2 (BR)	28 - O1B- (W)
29 - EGV (L/Y)	29 - OX1B (B)
30 - VG (G)	30
31 - VTA2 (W/R)	31 - A1A- (V)
32	32 - THO (Y/G)
33	33
34 - PRG (L/R)	34
	35 - NT- (Y)

B 32 (B) 32 P	F 60 (D) 35 P
1 - E1 (BR)	1
2 - M- (Y)	2
3 - M+ (BR)	3
4 - ME01 (BR)	4 - SFTU (P), +
5	5 - SFTD (Y), +
6	6 - +BM (B/W)
7	7
8	8 - S Sw. (R/W), +
9	9
10 - PSST (R/L)	10 - D (L/W)
11	11 - R (R/B)
12	12 - ST1- (G/Y)
13	13
14	14
15 - OC1-	15
16 - OC1+	16
17 - GE01	17 - SPD (Y/G)
18	18 - MPX1 (G/R)
19	19 - STP (G/W)
20	20
21 - RL (G/Y)	21
22	22
23	23
24 - NE- (W)	24
25 - NE+ (B)	25
26	26 - IMO
27 - G2+ (B)	27 - IMI
28	28
29	29 - MPX2 (R/W)
30	30
31	31
32	32
	33
	34
	35

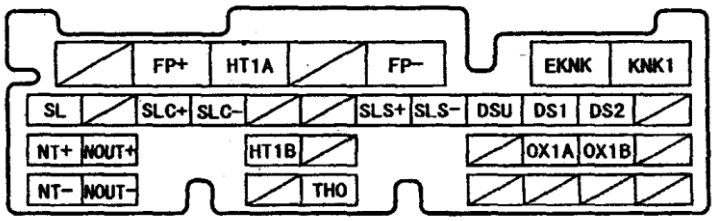
F 60 (D) 31 P

1	-	+B (R/L)
2		
3	-	BATT (B/Y)
4		
5	-	TACH (B/W)
6	-	P (R/L)
7	-	N (V)
8	-	MREL (B)
9	-	IGSW (B/R)
10	-	FC (W/G)
11	-	W (G)
12		
13		
14	-	F/PS
15	-	EOM
16		
17		
18	-	SIL (W)
19	-	WFSE (R/Y)
20	-	TC (P/B)
21		
22	-	VPA (G/R)
23	-	VPA2 (L/W)
24		
25		
26	-	VCPA (L)
27	-	VCPA2 (B/W)
28	-	EPA (BR)
29	-	EPA2 (L/R)
30		
31		

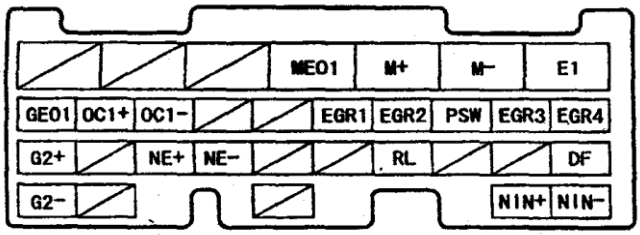
1ZZ-FE - Premio 2004 - คันเร่งไฟฟ้า , CVT



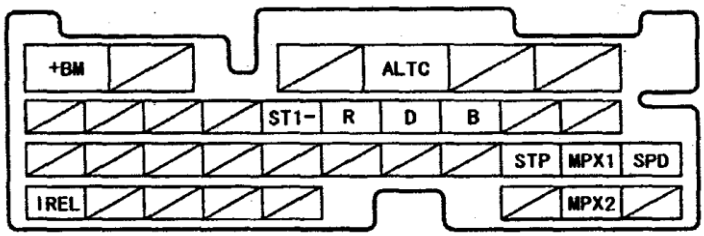
A



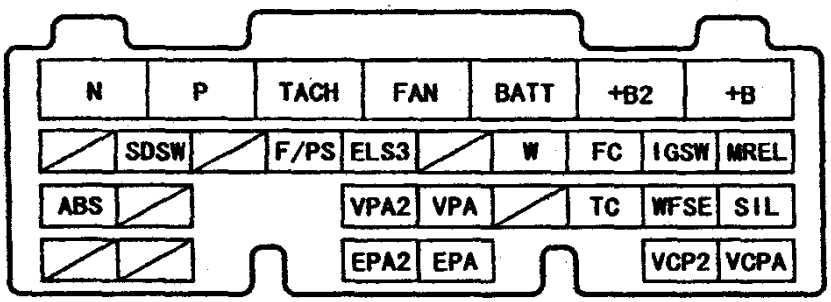
B



C



D



E

2ZZ-GE - Celica 2002 (89661-20070) , A/T + - 10 เส้น , คันเร่งสาย

2ZZ - GE

Разъем A

	(SL1-)	(SL2+)	(SL1+)	(SLT+)	(SLT-)	#40	#30				#20	#10
E01	(SL2-)	(DSL)	(RSO)		(NT+)	(NT-)	(NC+)	IGT4	IGT3	IGT2	IGT1	
E02		(S4)		PS	KNK1		(NC-)	IGF	OCV+	OCV-	MOPS	

Разъем B

OVL+	OVL-		EVP1	HT1A			VC	EVG
NE+	G2	THW	(THO)	OX1A	VG	RL	(L)	(N)
NE-	VTA	THA		OSW	(P)	(2)	E2	E1

Разъем C

VSV	F/PS		(STP)	TC	FAN	CF	(R)		
(OD2)	PRE						EC	STA	MPX1
LCKI	TACH			(D)			SPD	MREL	

Разъем D

	MPX2			FC		BATT	
W			ACMG	SIL		(SFTU)	IGSW
						(SFTD)	+B

2ZZ-GE - Celica 2002 (89661-20070) , A/T + - 10 เส้น , คันเร่งสาย

E5 (D) – หน้าปลั๊ก

#10 (R)	#20 (R/L)		#30 (R/W)	#40 (R/B)	SLT- (Y/G)	SLT+ (Y/R)	SL1+ (G)	SL2+ (BR/Y)	SL1- (V)	
IGT1 (R/B)	IGT2 (R/W)	IGT3 (G/R)	IGT4 (R/Y)	NC+ (P/B)	NT- (B)	NT+ (W/L)	*	RSO (B/W)	DSL (P/L)	SL2- (O)	E02 (W/B)
MOPS (Y/B)	OCV- (W)	OCV+ (G/O)	IGF (B/Y)	NC- (G/W)		KNK (GR)	EKNK (BR)		S4 (Y)	*	E01 (W/B)

E4 (C) – หน้าปลั๊ก

EVG (Y/G)	VC (R)		HT1A (Y/R)	EVAP (G/O)	*	OVL- (L/B)	OVL+ (L/W)	
N (P/L)	L (Y/B)	RL (Y)	VG (G/W)	OX1A (B)	THO (GR/L)	THW (G)	G2 (L)	NE+ (O)
E1 (BR)	E2 (BR)	2 (L/Y)	P (P)	VVT Oil Sw. (GR)		THA (L/R)	VTA (B/W)	NE- (W)

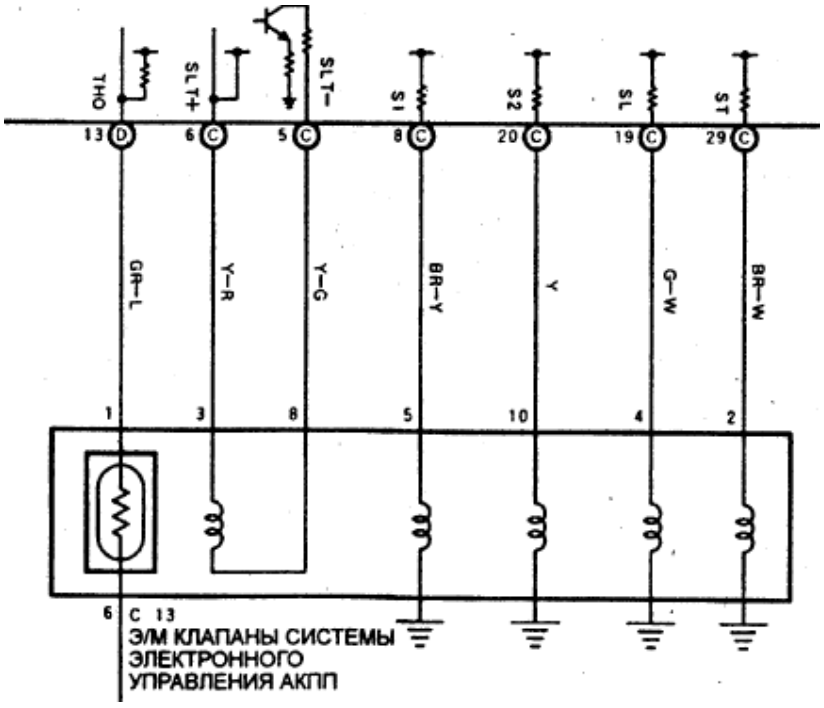
E3 (B) – หน้าปลั๊ก

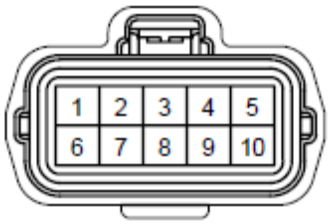
*	R (R/B)	CF Fan 3 (L/W)	FAN Fan 1 (L/Y)	TC (P/B)	STP (G/W)		*	SRS (P)	ACIS (R/L)
MPX1 (LG/R)	STA (L)	EC (W/B)	*	*	*	*	*	PRE (O)	ODLP (BR/Y)
*	MREL (L/B)	SPD (W/R)		*	D (G/O)	*	*	TACH (BR/W)	LCK1 (G)

E2 (A) – หน้าปลั๊ก

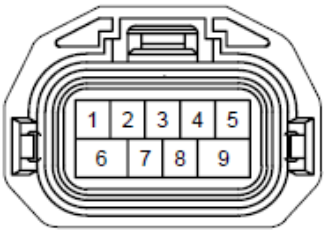
BATT (W)	*	FC (G/R)	*	ODMS (BR/Y)		MPX2 (LG/R)	*
IGSW (B/O)	SFTU (L)	*	SIL (W)	ACMG (Y/B)	*	*	W (R/B)
+B (B/R)	SFTD (P)		*	*	*	*	*

A/T Solenoid





A/T Position Sw.



P (P)	**R (R/B)**	**IG (R/L)**	**2 (L/Y)**	**N (P/L)**
E1 (W/B)	**D (L/W)**	**L (Y/B)**	**STA (B)**	

2ZZ-GE - Corolla Filder 2002 (89661-12270) , A/T + - 10 เส้น , คันเร่งสาย

E9 (B) – หน้าปลั๊ก 31 P

#10 (Y)	#20 (B)		#30 (W)	#40 (L)	SLT- (P)	SLT+ (R/W)	SL1+ (R/Y)	SL2+ (L/O)	SL1- (L)			
IGT1 (R/L)	IGT2 (Y/G)	IGT3 (GR)	IGT4 (W)		NT- (B)	NT+ (W)	*	RSO (B/L)	DSL (B)	SL2- (L/W)	E01 (W/B)	
FAN (LG/B)	OCV- (B/Y)	OCV+ (Y)	IGF (L/Y)			KNK (B)			S4 (G)	*	E02 (W/B)	

E8 (A) – หน้าปลั๊ก

EVG (L/W)	VC (Y)		HT1A (Y/R)	EVAP (L/B)	NEO (G/W)	OVL- (L/B)	OVL+ (L/W)	
E03 (W/B)	EFI- (G)	EFI+ (R)	VG (G)	OX1A (B)	THO (W/L)	THW (W)	G2 (B)	NE+ (B)
E1 (BR)	E2 (BR)	TRC- (W)	TRC+ (B)	*		THA (Y/B)	VTA (LG)	NE- (W)

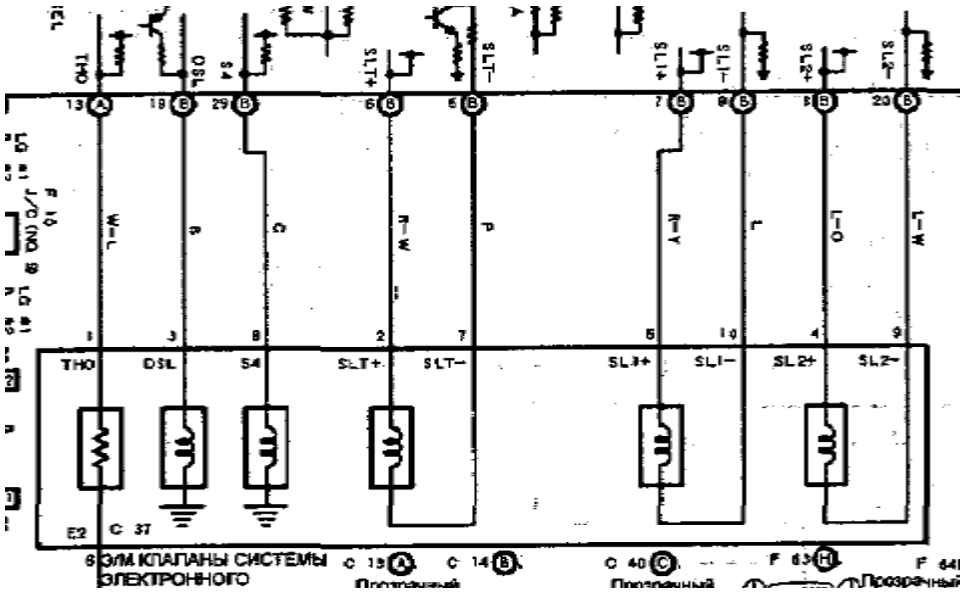
E7 (H) – หน้าปลั๊ก

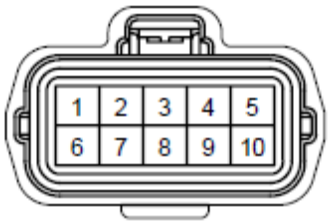
*	R (R/B)	2 (LG/R)	*	TC (P/B)	STP (G/W)		CODE (P)	SRS (Y)	ACIS (R/L)
ELS (G)	STA (B/W)	L (LG/B)	NSW (B/R)	PSST (L/R)	TXCT (G)	HT2 (P/L)	KSW (L/B)	PRE (O)	ODLP (LG)
ELS2 (W/R)	MREL (B/W)	SPD (V/W)		PWR (L/O)	D (L/B)	OX2 (W)	RXCK (V)	TACH (B)	LCK1 (G)

E6 (I) – หน้าปลั๊ก

BATT (R/W)	IMLD (W/R)	FC (G/R)	*	EOM (W/B)		*	ODMS (LG)
IGSW (B/O)	*	*	SIL (L/R)	*	3 (L/W)	*	W (R/Y)
+B (B)	THWO (Y/G)		AC (Y/R)	*	*	ACT (R/L)	EC (W/B)

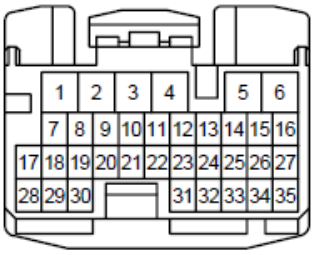
A/T Solenoid 10 เส้น



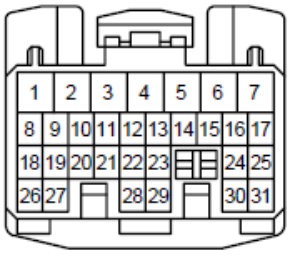


2ZZ-GE - Celica 2005 , คันเร่งไฟฟ้า

E 8

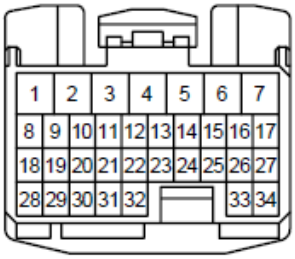


E 9

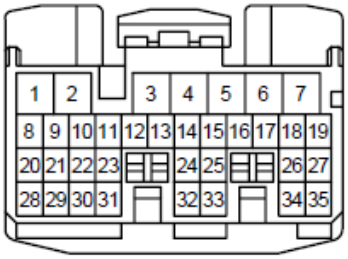


E 8 (E) - หน้าปลั๊ก	E 9 (F) – หน้าปลั๊ก
1 - HP	1 - +B (B/R)
2 - ACMG	2
3	3 - BATT (W/L)
4	4 - Pressure Switching Sol. (G/O)
5	5 - TACH (BR/W)
6 - +BM (W/R)	6 - P (P) , +
7 - ODLP (BR/Y)	7 - N (P/L) , +
8 - L (Y/B) , +	8 - MREL (GR)
9 - 2 (L/O) , +	9 - IGSW (B/O)
10 - D (L/W) , +	10 - FC (G/R)
11 - R (R/B) , +	11 - W (R/B)
12 - ST1- (R/Y)	12
13 - PI , Cruise Control Lamp (Y/G)	13
14	14 - SRS (P/G)
15	15
16	16 - ODMS (BR/R)
17 - SPD (W/R)	17
18 - MPX1	18 - SIL (W)
19 - STP (G/W)	19 - WFSE (G)
20	20 - TC (P/B)
21 - SFTD (P/L) , -	21 - PTNK (L/B)
22 - SFTU (L/R) , -	22 - VPA (L/Y)
23	23 - VPA2 (L/O)
24 - CCS (W/G)	24
25	25
26	26 - VCPA (L/W)
27	27 - VCP2 (L)
28	28 - EPA (L/R)
29 - MPX2	29 - EPA2 (LG/R)
30	30
31	31
32	
33	
34	
35	

E10

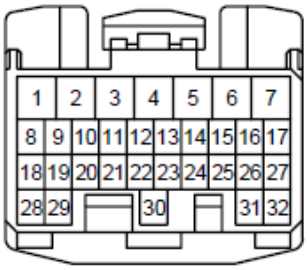


E11



E 10 (G) - หน้าปลั๊ก	E 11 (H) – หน้าปลั๊ก
1 - #10 (L/R)	1 - EKNK (W)
2 - #20 (L/O)	2 - KNK (B)
3 - #30 (L/B)	3 - AIRP , Air Pump Rel. (GR/R)
4 - #40 (L)	4 - HT1A (Y/R)
5 - CF (L/W)	5
6 - E02 (W/B)	6
7 - E01 (W/B)	7
8 - IGT1 (R/G)	8
9 - IGT2 (GR/R)	9 - STA (L)
10 - IGT3 (G/R)	10
11 - IGT4 (R/Y)	11 - DSL (P/L)
12	12
13	13 - S4 (Y)
14 - FAN (L/Y)	14
15 - ACIS (R/L)	15
16 - SLT- (Y/G)	16 - SL2- (O)
17 - SLT+ (Y/L)	17 - SL2+ (BR/Y)
18 - VC (R/B)	18 - SL1- (V)
19 - THW (G)	19 - SL1+ (G/R)
20 - THA (Y/R)	20
21 - VTA (B/W)	21
22	22
23	23 - OX1A (B)
24 - IGF (B/Y)	24 - VG (G/W)
25	25
26	26 - NC+ (P/B)
27 - NE+ (O)	27 - NT+ (W/L)
28 - E2 (BR)	28
29 - AIP , Air Pump Pressure Sen. (LG)	29 - OX1B (R)
30 - THO (GR/L)	30
31 - VTA2 (B/L)	31
32	32 - EVG (Y/G)
33 - AIRV , Air Pump Sol. (GR)	33
34 - NE- (W)	34 - NC- (G/O)
	35 - NT- (B/R)

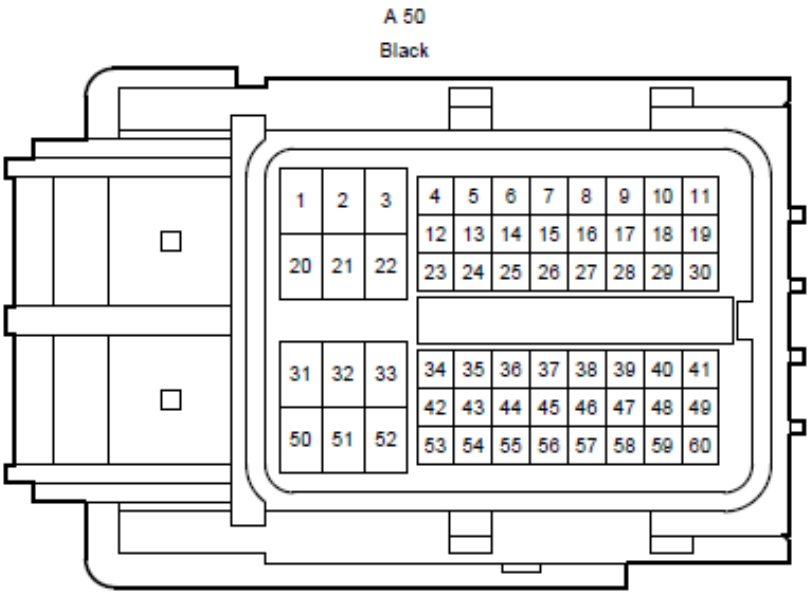
E12



E 12 (I) - หน้าปลั๊ก

1 - E1 (BR)
2 - M- (W)
3 - M+ (B)
4 - ME01 (W/R)
5
6 - HT1B (Y/G)
7 - E03 (W/G)
8 - OSW , VVTL Oil Pressure Sw. (GR) , -
9
10 - PSST (P) , -
11 - EVAP (G/Y)
12 - Canister Close Sol. (V/W)
13 - OCVL- (L/B)
14 - OCVL+ (L/W)
15 - OCV- (W)
16 - OCV+ (G/O)
17 - GE01
18
19
20
21 - RL
22 - MOPS , Oil Pressure Sw. (Y/B) , -
23 - LCK1
24
25
26
27 - G+ (L)
28
29
30 - EC (W/B)
31
32

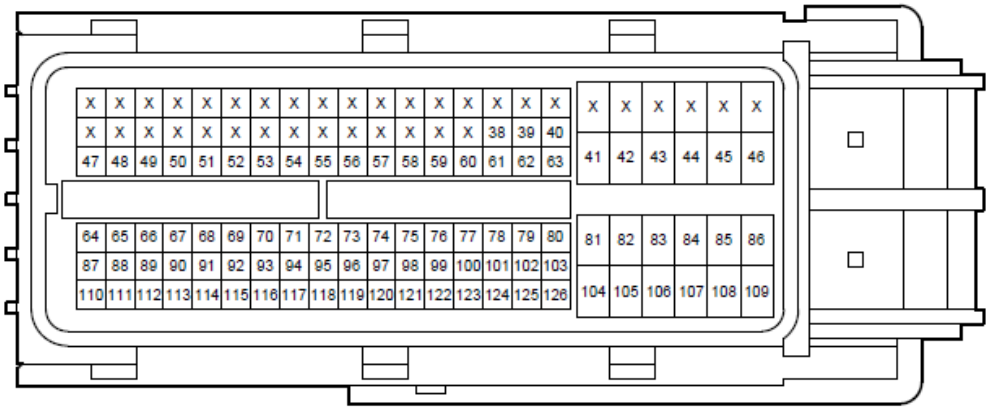
1ZZ-FE (1.8) , 3ZZ-FE (1.6) - Altis 2008 (ZZE141) , A/T + -



A

1	31 - ELS1 (G)
2 - + B (B)	32 - EC (W/B)
3 - + BM (B)	33 - ELS2 (B)
4	34
5	35 - ST1- (R)
6	36 - STP (L)
7 - FC (O)	37
8 - SPD (V)	38
9	39
10 - IMO (LG/B)	40
11 - IMI (P)	41 - CANH (Y)
12	42
13 - ACCR , Main Body ECU (L/Y)	43
14 - STSW , Main Body ECU (W/G)	44 - MREL (L)
15 - TACH (GR)	45
16 - SFTU (G) , -	46
17	47
18 - ACT (P)	48 - STA (LG)
19	49 - CANL (W)
20 - BATT (P)	50
21	51 - SFTD (L) , -
22 - FANH (R) , Fan No.2 Rel.	52
23	53
24 - W (R)	54
25	55 - VPA (L)
26 - 3 (W)	56 - VPA2 (Y)
27 - TC (P)	57 - VCPA (P)
28 - IGSW (B)	58 - VCP2 (B)
29	59 - EPA (R)
30 - AC1 (B)	60 - EPA2 (O)

B 31
Black

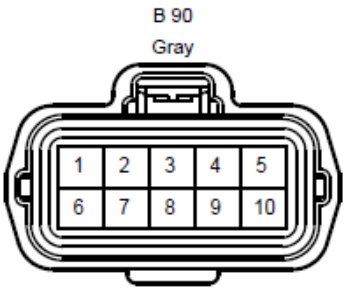


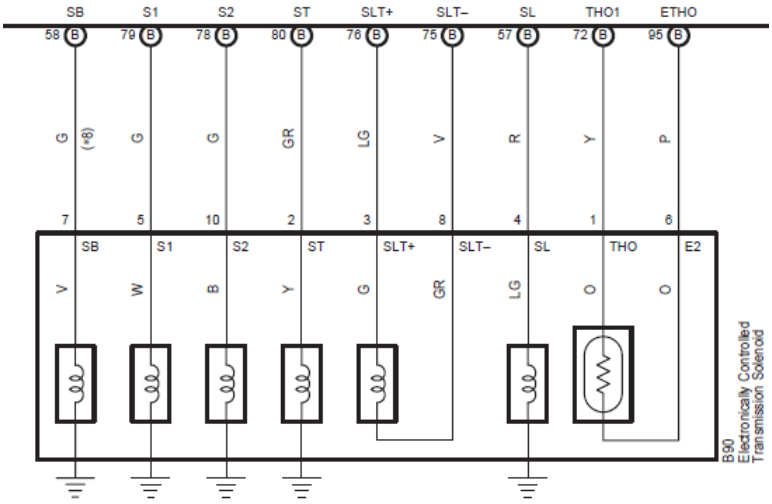
B

38
39
40
41 - M- (L)
42 - M+ (P)
43 - ME01 (W/B)
44 - E02 (W/B)
45 - E01 (W/B)
46 - E04 (W/B)
47 - HT1B (P)
48
49 - PRG (L)
50
51
52 - STAR (W)
53 - R (R)
54 - N (B)
55 - 2 (BR)
56 - D (P)
57 - SL (R)
58 - SB (G)
59
60
61
62
63 - GE01 (BR)
64 - OX1B (B)
65 - THA (P)
66
67 - VC , Throttle Control (Y)
68
69
70
71
72 - THO1 (Y)
73 - P (V)
74 - L (GR)
75 - SLT- (V)
76 - SLT+ (LG)
77
78 - S2 (G)
79 - S1 (G)
80 - ST (GR)
81 - IGF1 (V/G)
82 - IGT4 (B)

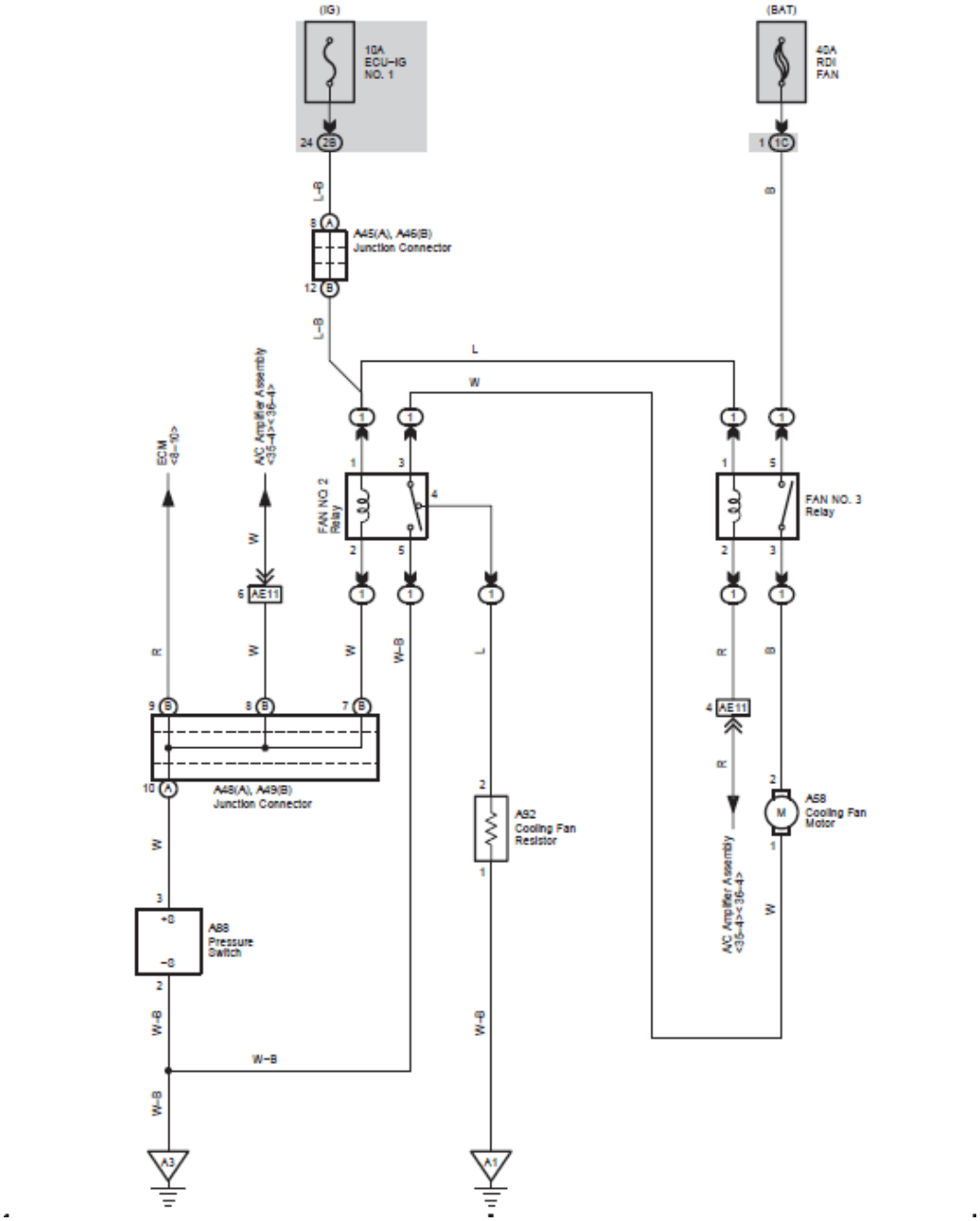
83 - IGT3 (L/B)
84 - IGT2 (B)
85 - IGT1 (W/L)
86 - E03 (W/B)
87 - EX1B (LG)
88 - ETHA (W)
89
90
91 - E2 , Throttle Control (BR)
92
93
94
95 - ETHO (P)
96 - ETHW (BR)
97 - THW (B)
98
99 - G2 (B)
100 - OC1+ (B)
101
102
103
104 - E1 (BR)
105 - # 40 (LG)
106 - # 30 (G)
107 - # 20 (Y)
108 - # 10 (V)
109 - HA1A (R)
110 - KNK1 (B)
111 - EKNK (W)
112 - A1A+ (Y)
113 - A1A- (L)
114 - VTA2 , Throttle Control (R/G)
115 - VTA1 , Throttle Control (P/B)
116 - E2G (B)
117
118 - VG (V)
119
120
121 - NE- (W)
122 - NE+ (B)
123 - OC1- (V)
124 - NT- (Y)
125 - NT+ (B)
126

A/T Solenoid 9 เส้น

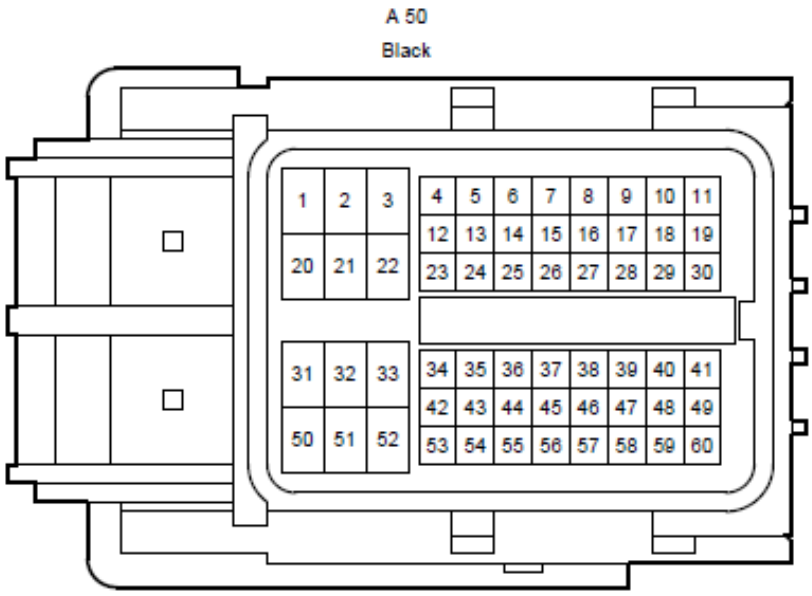




Cooling Fan Control

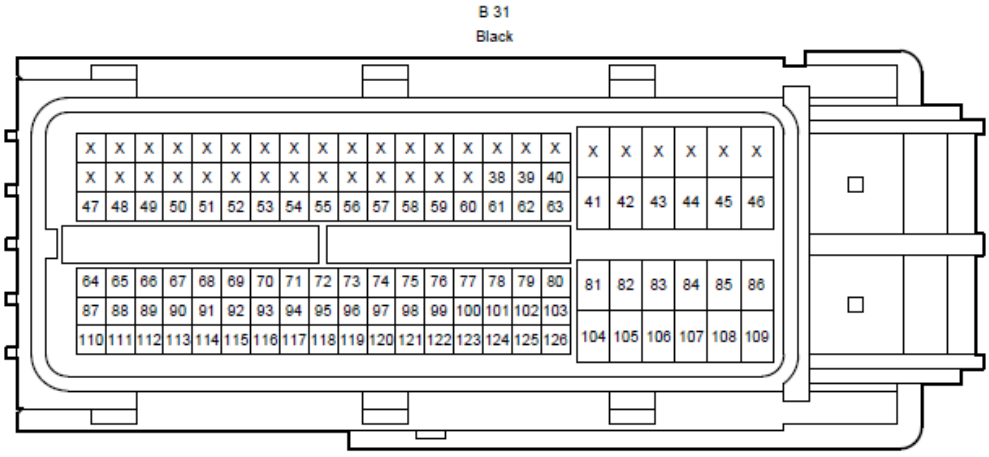


2ZR-FE (1.8) - Altis 2010 (ZRE142) , Dual VVT , Cooling Fan ECU



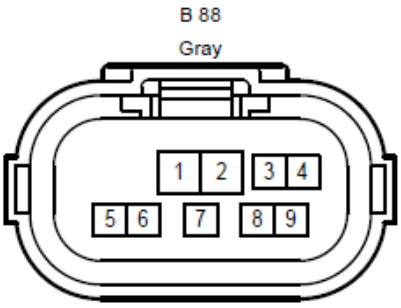
A

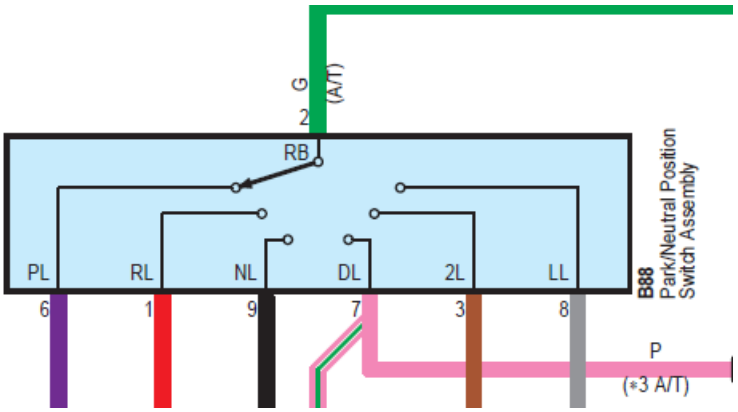
1 - +B2 (B)	31 - ELS1 (G)
2 - +B (B)	32 - EC (W/B)
3 - +BM (B)	33 - ELS2 (B)
4	34
5	35 - ST1- (R)
6	36 - STP (L)
7 - FC (O)	37
8 - SPD (V)	38
9	39
10 - IMO (LG/B)	40 - CCS , Cruise control (L/B)
11 - IMI (P)	41 - CANH (Y)
12	42
13 - ACCR , Main Body ECU (L/Y)	43 - RFC (R/G) , Cooling Fan ECU
14 - STSW , Main Body ECU (W/G)	44 - MREL (L) , -
15 - TACH (GR)	45
16	46
17	47
18 - ACT (P)	48 - STA (LG)
19	49 - CANL (W)
20 - BATT (P)	50
21	51
22 - FANH (R)	52
23	53
24 - W (R)	54
25	55 - VPA (L)
26 - 3 (W)	56 - VPA2 (Y)
27 - TC (P)	57 - VCPA (P)
28 - IGSW (B)	58 - VCP2 (B)
29	59 - EPA (R)
30 - AC1 (B)	60 - EPA2 (O)



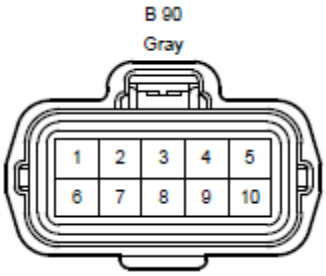
38			83	-	IGT3 (L/B)
39			84	-	IGT2 (B)
40			85	-	IGT1 (W/L)
41	-	M- (L)	86	-	E03 (W/B)
42	-	M+ (P)	87	-	EX1B (LG)
43	-	ME01 (W/B)	88	-	ETHA (W)
44	-	E02 (W/B)	89		
45	-	E01 (W/B)	90		
46	-	E04 (W/B)	91	-	E2 , Throttle Control (BR)
47	-	HT1B (P)	92		
48			93		
49	-	PRG (L)	94		
50			95	-	ETHO (P)
51			96	-	ETHW (BR)
52	-	STAR (W)	97	-	THW (B)
53	-	R (R)	98		
54	-	N (B)	99	-	G2 (B)
55	-	2 (BR)	100	-	OC1+ (B)
56	-	D (P)	101		
57	-	SL (R)	102		
58	-	SB (G)	103		
59			104	-	E1 (BR)
60			105	-	# 40 (LG)
61			106	-	# 30 (G)
62			107	-	# 20 (Y)
63	-	GE01 (BR)	108	-	# 10 (V)
64	-	OX1B (B)	109	-	HA1A (R)
65	-	THA (P)	110	-	KNK1 (B)
66			111	-	EKNK (W)
67	-	VC , Throttle Control (Y)	112	-	A1A+ (Y)
68			113	-	A1A- (L)
69			114	-	VTA2 , Throttle Control (R/G)
70			115	-	VTA1 , Throttle Control (P/B)
71			116	-	E2G (B)
72	-	THO1 (Y)	117		
73	-	P (V)	118	-	VG (V)
74	-	L (GR)	119		
75	-	SLT- (V)	120		
76	-	SLT+ (LG)	121	-	NE- (W)
77			122	-	NE+ (B)
78	-	S2 (G)	123	-	OC1- (V)
79	-	S1 (G)	124	-	NT- (Y)
80	-	ST (GR)	125	-	NT+ (B)
81	-	IGF1 (V/G)	126		
82	-	IGT4 (B)			

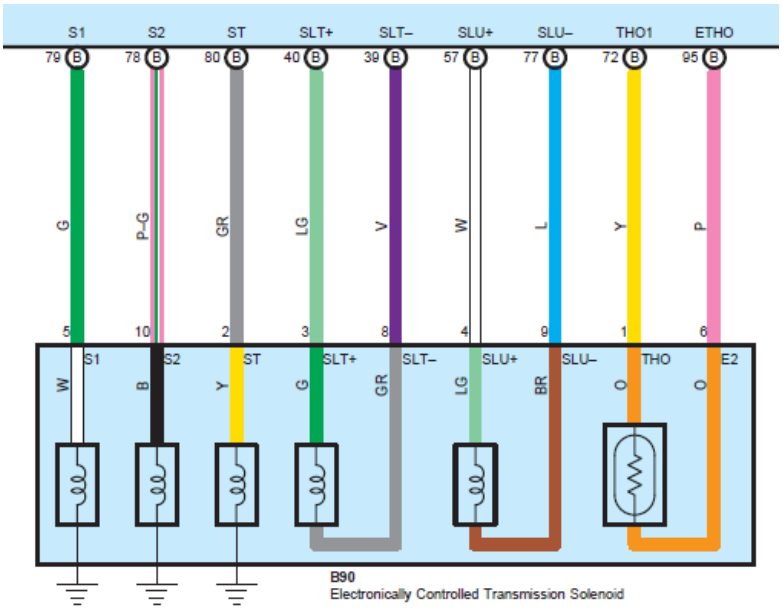
A/T Position Sw.





A/T Solenoid 9 เส้น

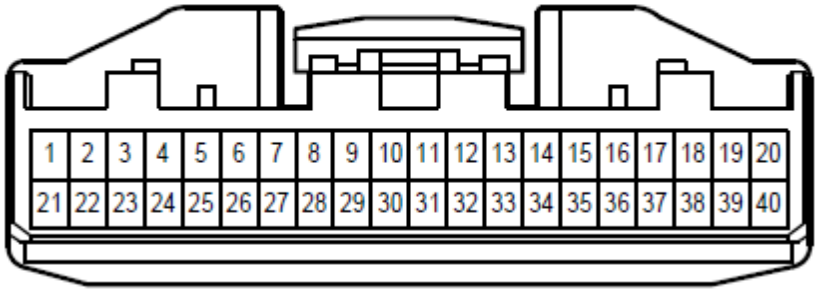




Cmbination Meter

E 46

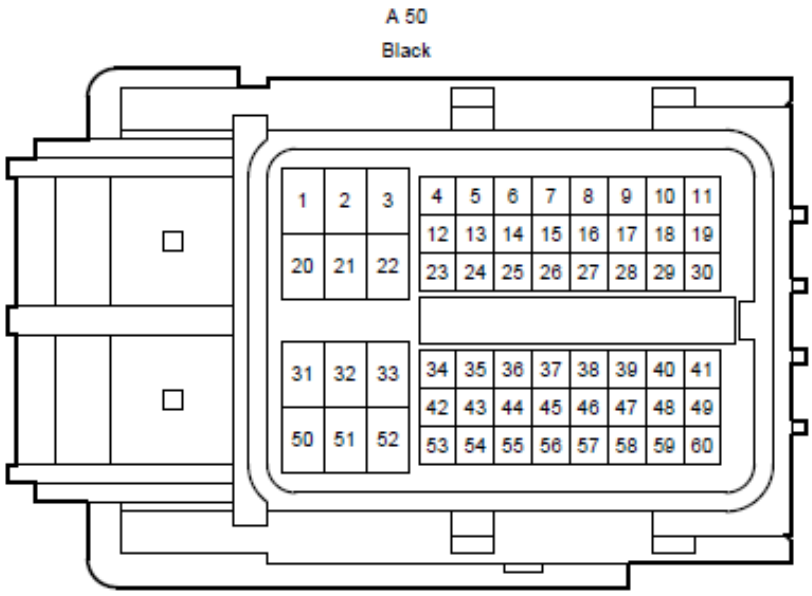
White



1		
2	-	
3	-	
4		
5		
6		
7	-	
8	-	
9		
10	-	
11	-	
12		
13	-	
14	-	
15	-	TACH (GR)
16	-	SFTU (W),-
17		
18	-	ACT (P)
19		
20	-	BATT (P)
21		
22	-	FANH (R)
23		
24	-	W (R)
25		
26	-	3 (W)
27	-	TC (P)
28	-	IGSW (B)
29		
30	-	AC1 (B)

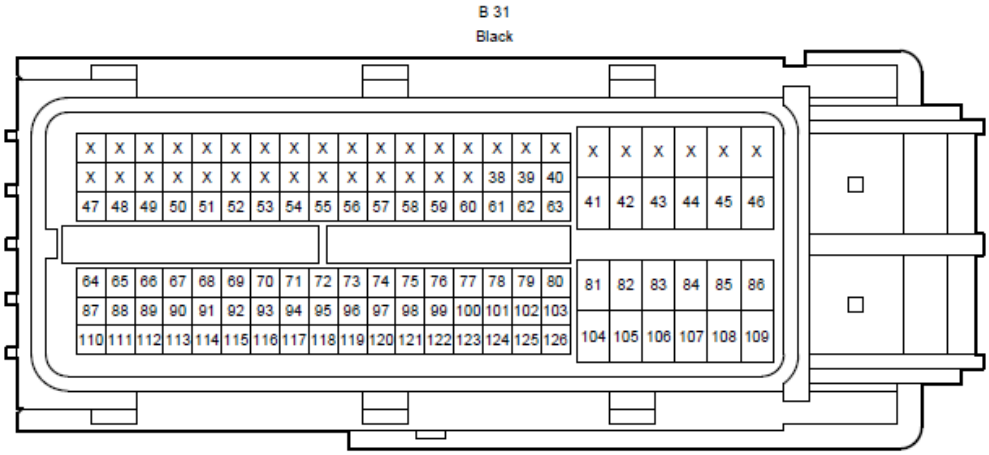
31	-	ELS1 (G)
32	-	EC (W/B)
33	-	ELS2 (B)
34		
35	-	ST1- (R)
36	-	STP (L)
37		
38		
39		
40		
41	-	CANH (Y)
42		
43		
44	-	MREL (L)
45		
46		
47		
48	-	STA (LG)
49	-	CANL (W)
50		
51	-	SFTD (R),-
52		
53		
54		
55	-	VPA (L)
56	-	VPA2 (Y)
57	-	VCPA (P)
58	-	VCP2 (B)
59	-	EPA (R)
60	-	EPA2 (O)

2AZ-FE , CVT - Altis 2010 (AZE141)



A

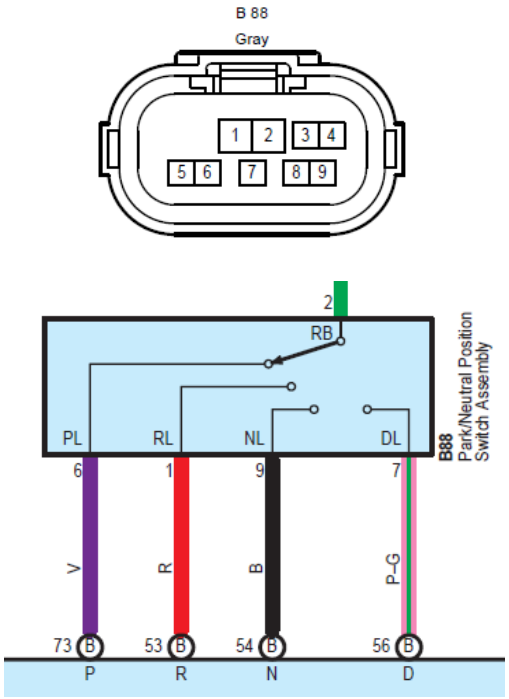
1 - +B (B)	31 - ELS1 (G)
2 - +B (B)	32 - EC (W/B)
3 - +BM (B)	33 - ELS2 (B)
4	34
5	35 - ST1- (R)
6	36 - STP (L)
7 - FC (O)	37
8 - SPD (V)	38
9	39
10 - IMO (LG/B)	40
11 - IMI (P)	41 - CANH (Y)
12	42
13 - ACCR , Main Body ECU (L/Y)	43
14 - STSW , Main Body ECU (W/G)	44 - MREL (L)
15 - TACH (GR)	45
16 - SFTU (W) , -	46
17	47
18 - ACT (P)	48 - STA (LG)
19	49 - CANL (W)
20 - BATT (P)	50
21 - FAN L (R)	51 - SFTD (R) , -
22 - FAN H (W)	52
23	53
24 - W (R)	54
25	55 - VPA (L)
26 - 3 (W)	56 - VPA2 (Y)
27 - TC (P)	57 - VCPA (P)
28 - IGSW (B)	58 - VCP2 (B)
29	59 - EPA (R)
30 - AC1 (B)	60 - EPA2 (O)



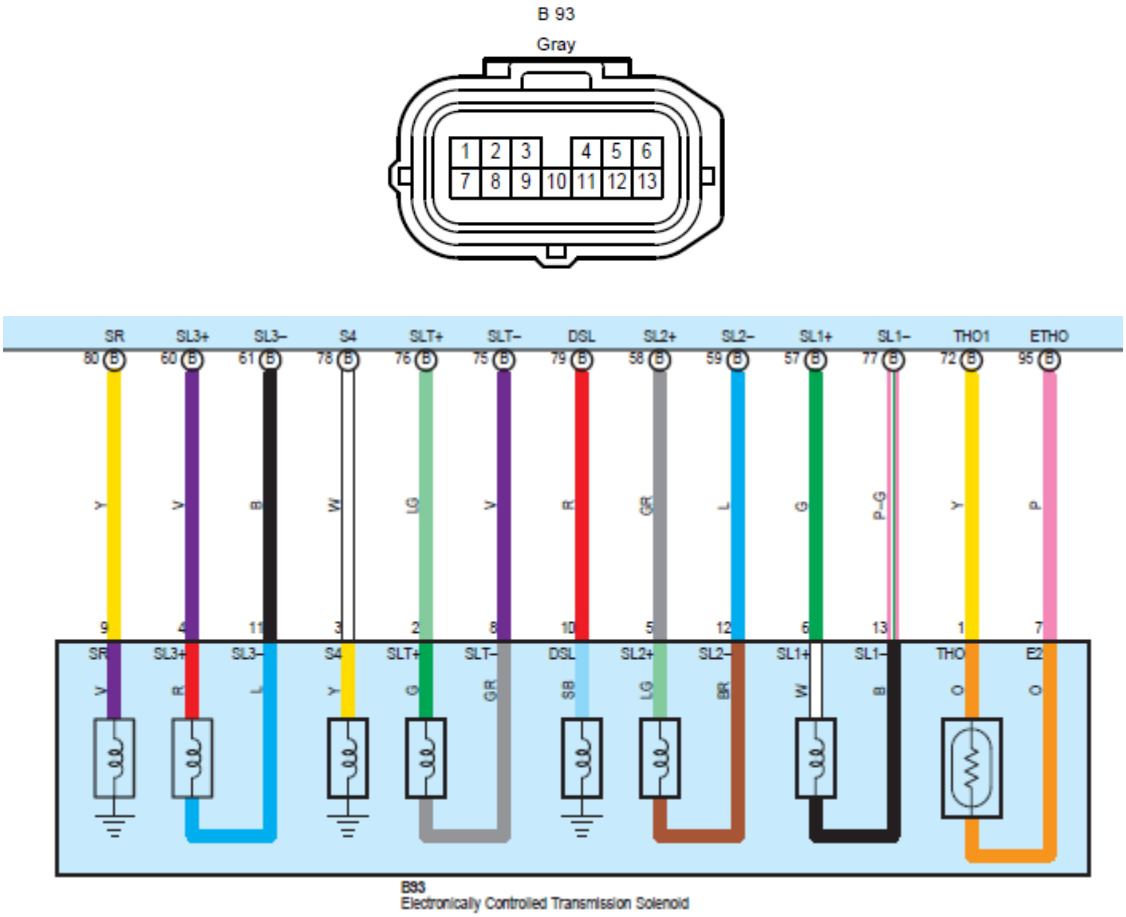
38		
39		
40		
41	-	M- (L)
42	-	M+ (P)
43	-	ME01 (W/B)
44	-	E02 (W/B)
45	-	E01 (W/B)
46	-	E04 (W/B)
47	-	HT1B (P)
48		
49	-	PRG (L)
50		
51		
52	-	STAR (W)
53	-	R (R)
54	-	N (B)
55		
56	-	D (P/G)
57	-	SL1+ (G)
58	-	SL2+ (GR)
59	-	SL2- (L)
60	-	SL3+ (V)
61	-	SL3- (B)
62		
63	-	GE01 (BR)
64	-	OX1B (B)
65	-	THA (P)
66		
67	-	VC , Throttle Control (Y)
68		
69		
70		
71		
72	-	THO1 (Y)
73	-	P (V)
74	-	S Sw. (L) , +
75	-	SLT- (V)
76	-	SLT+ (LG)
77	-	SL1- (P/G)
78	-	S4 (W)
79	-	DSL (R)
80	-	SR (Y)
81	-	IGF1 (V/G)
82	-	IGT4 (B)

83	-	IGT3 (L/B)
84	-	IGT2 (B)
85	-	IGT1 (W/L)
86	-	E03 (W/B)
87	-	EX1B (LG)
88	-	ETHA (W)
89		
90		
91	-	E2 , Throttle Control (BR)
92		
93		
94		
95	-	ETHO (P)
96	-	ETHW (BR)
97	-	THW (B)
98		
99	-	G2 (B)
100	-	OC1+ (B)
101	-	NC+ (R)
102	-	NC- (W)
103		
104	-	E1 (BR)
105	-	# 40 (LG)
106	-	# 30 (G)
107	-	# 20 (Y)
108	-	# 10 (V)
109	-	HA1A (R)
110	-	KNK1 (B)
111	-	EKNK (W)
112	-	A1A+ (Y)
113	-	A1A- (L)
114	-	VTA2 , Throttle Control (R/G)
115	-	VTA1 , Throttle Control (P/B)
116	-	E2G (B)
117		
118	-	VG (V)
119		
120		
121	-	NE- (W)
122	-	NE+ (B)
123	-	OC1- (V)
124	-	NT- (Y)
125	-	NT+ (B)
126		

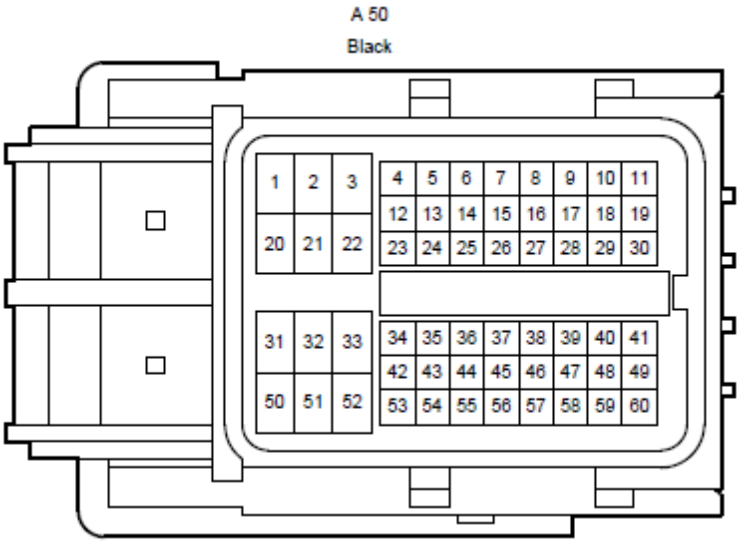
A/T Position Sw.



A/T Solenoid

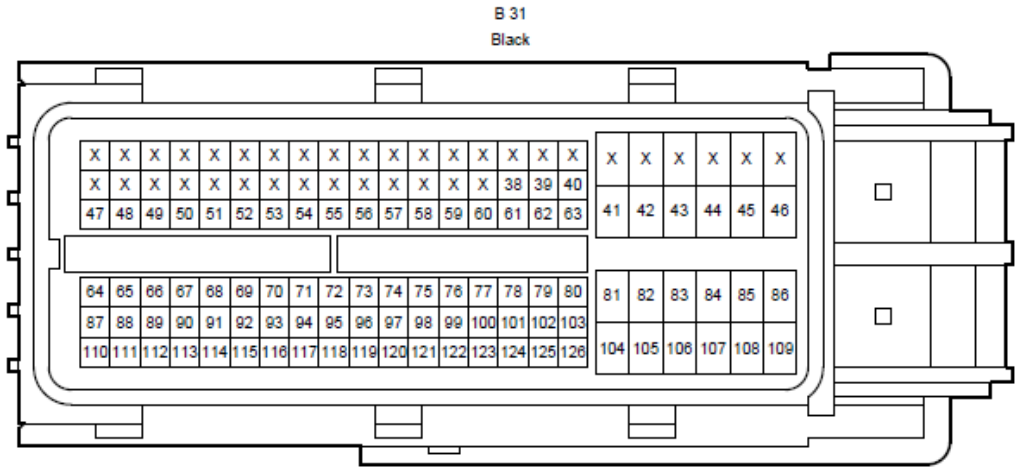


2ZR-FAE , Dual VVT , CVT – Corolla Verso 2012



A (A51)

1 - +B2 (B)	31 - ELS1 (G)
2 - + B (B)	32 - EC (W/B)
3 - + BM (B)	33
4 - CAN+	34
5 - CAN-	35 - ST1- (R/L)
6 - CANP	36 - STP (V)
7 - CANN	37 - SDWN (G) , Valve Lift Control Driver
8 - CANH	38 - SPD (Y)
9 - CANL	39 - NEO (P)
10 - IMO (LG/B)	40 - CCS (L)
11 - IMI (P)	41 - TC (P)
12	42
13	43 - RFC (R/G) , Cooling Fan ECU
14 - ASLM (GR)	44 - MREL (L)
15 - TACH (GR)	45
16 - SFTU (W)	46
17 - PWMS (R)	47 - D (G)
18	48 - STA (LG)
19 - FC (R)	49 - CANL (W)
20 - BATT (P)	50 - ELS2 (B)
21	51 - SFTD (R)
22	52
23	53
24 - W (LG)	54
25 - NSW (G)	55 - VPA (L/W)
26	56 - VPA2 (Y)
27 - IGSW (B)	57 - VCPA (P/L)
28	58 - VCP2 (B)
29	59 - EPA (R)
30	60 - EPA2 (P)

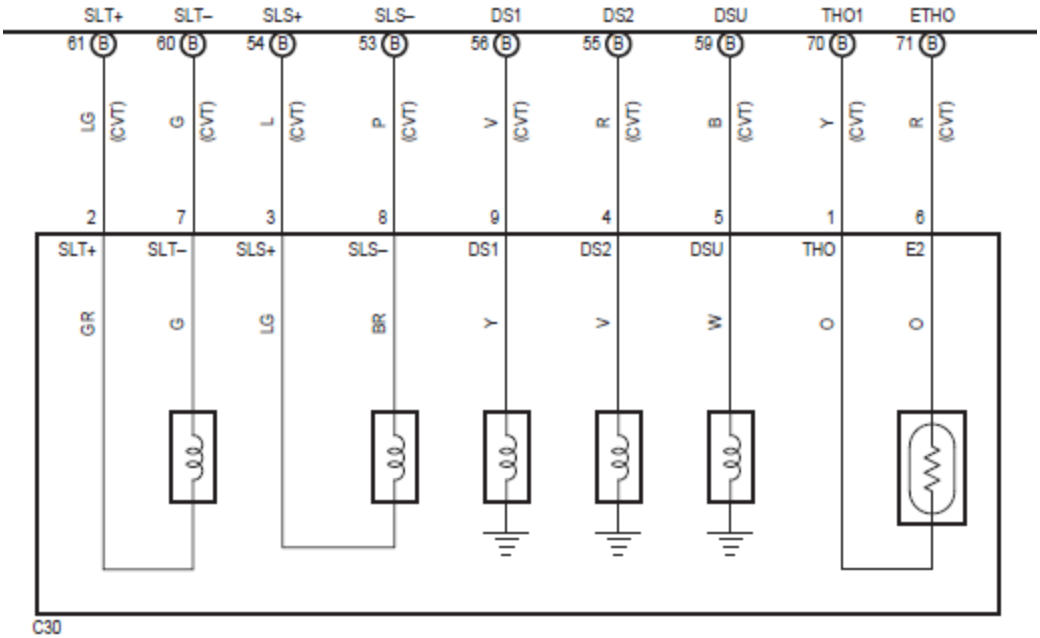


B (C68)

38 - ACIS (R/B)
39 - S (L)
40 - GE01 (BR)
41 - E04 (W/B)
42 - M- (L)
43 - M+ (P)
44 - ME01 (W/B)
45 - E02 (W/B)
46 - E01 (BR)
47
48
49
50
51
52 - ALT (L)
53 - SLS- (P)
54 - SLS+ (L)
55 - DS2 (R)
56 - DS1 (V)
57
58
59 - DSU (B)
60 - SLT- (G)
61 - SLT+ (LG)
62 - PRG (L/B)
63 - HT1B (P)
64 - THW (B)
65 - ETHW (BR)
66
67 - VCPM (R)
68
69 - VG (V)
70 - THO1 (Y)
71 - ETHO (R)
72 - EPTO (B)
73 - PTO (W) , Oil Pressure Sen.
74 - OC1+ (B) , Intake
75 - OE1+ (BR) , Exhaust
76 - R (R)
77 - P (V)
78
79 - OX1B- (Y)
80 - OX1B (BR)
81 - E03 (W/B)
82 - IGF (Y)

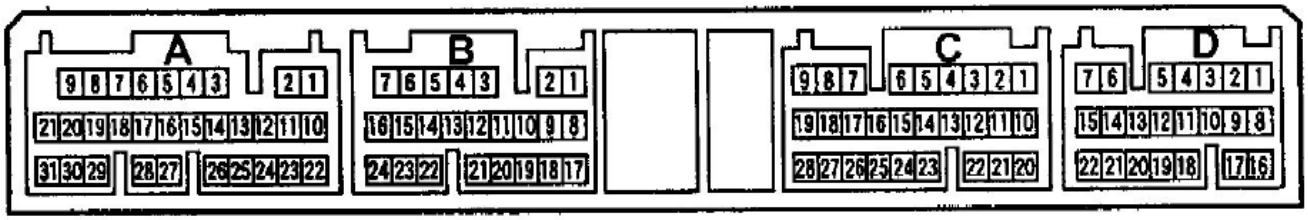
83 - #40 (LG)
84 - #30 (G)
85 - #20 (Y)
86 - #10 (V)
87 - THA (P)
88 - ETHA (BR/W)
89 - VCTA (V)
90 - ETA (BR)
91 - EPIM (BR/R)
92 - E2G (R)
93 - NE+ (B)
94 - G2+ (G) , VVT Sen. Intake
95 - VCPT (P)
96 - OC1- (V)
97 - OE1- (P)
98 - EV1+ (L) , VVT Sen. Exhaust
99 - N (B)
100 - NIN- (L)
101 - NOTB (R)
102
103 - A1A+ (L)
104 - HA1A (R)
105 - E1 (BR)
106 - IGT4 (B)
107 - IGT3 (L/B)
108 - IGT2 (B)
109 - IGT1 (W/L)
110 - KNK1 (G)
111 - EKNK (R)
112 - VTA2 (R)
113 - VTA1 (P)
114 - PIM (V)
115
116
117 - NE- (W)
118 - G2- (R)
119 - VCV1 (W)
120 - EV1- (R)
121 - VCE1 (W)
122 - NIN+ (LG)
123 - NTB (Y)
124 - NTO (B)
125 - NOTO (L)
126 - A1A- (P)

A/T Solenoid



C30
Electronically Controlled Transmission Solenoid

Harrier 2003 (5S-FE)



A		
1	-	#10
2	-	#20
3	-	#30
4	-	#40
5	-	SLT-
6	-	SLT+
7	-	SL1+
8	-	SL2+
9	-	SL1-
10	-	IGT1
11	-	IGT2
12		
13	-	THO
14	-	NC+
15	-	NT-
16	-	NT+
17		
18	-	RSD
19	-	DSL
20	-	SL2-
21	-	E01
22	-	L
23	-	2
24	-	D
25	-	IGF
26	-	NC-
27	-	KNK1
28		
29	-	S4
30		
31	-	E02

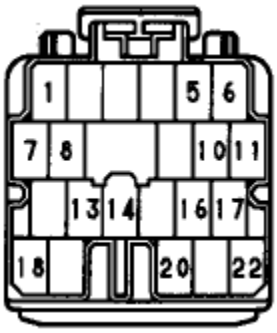
B		
1		
2	-	VC
3	-	HT
4	-	EVP1
5		
6		
7		
8	-	STA
9	-	LCK1
10	-	RL
11	-	PIM
12	-	OX1
13		
14	-	THW
15	-	G2
16	-	NE+
17	-	E1
18	-	E2
19		
20	-	MOPS
21	-	PSW
22	-	THA
23	-	VTA
24	-	NE-

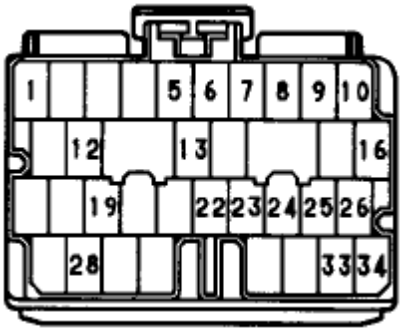
C		
1	-	STP
2	-	R
3		
4		
5	-	TC
6		
7		
8		
9		
10	-	OD2
11	-	P
12	-	SFTD
13	-	SFTU

D		
1	-	BATT
2		
3	-	FC
4		
5		
6	-	W
7		
8		
9		
10		
11	-	SIL
12		
13	-	MPX2

14	14 - MPX1
15	15 - ACMG
16	16 - +B
17 - CF	17
18	18
19	19
20 - NSW	20 - PR2
21 - N	21 - PRE
22 - SPD	22 - FAN
23	
24	
25	
26	
27 - TACH	
28	

5VZ–FE , Land Cruiser 1996





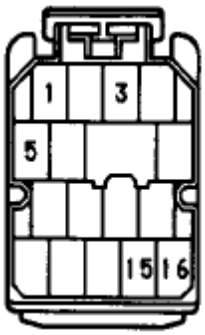
E 6 (B)

1 - VC (G/B)
2
3
4
5 - NE (R)
6 - NE- (G)
7 - VTA (Y)
8 - VG (GR/R)
9
10 - G (Y)
11 - G- (L)
12
13 - OX1 (W)
14 - THA (Y/G)
15
16
17
18 - E3 (BR/W)
19 - OX2 (B)
20 - THW (G/R)
21 - THG (P/G)
22 - E2 (BR/B)

E 5 (A)

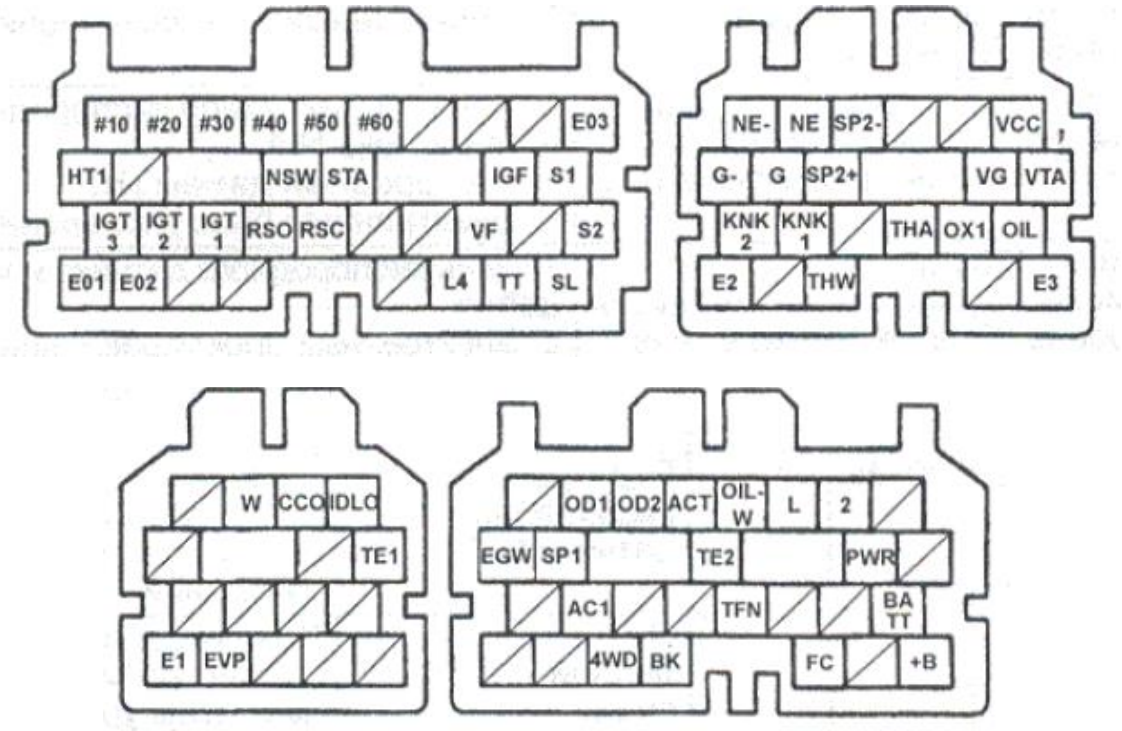
1
2
3
4
5 - #60 (Y/B)
6 - #50 (W/L)
7 - #40 (Y/R)
8 - #30 (W/G)
9 - #20 (W)
10 - #10 (W/R)
11
12 - IGF (B/Y)
13 - STA (B/W)
14 - NSW (B)
15 - HT2 (R/W)
16 - HT1 (R/G)
17
18
19
20
21
22 - RSC (B/R)
23 - RSO (BR/R)
24 - IGT1 (B/L)
25 - IGT2 (BR/Y)
26 - IGT3 (B/W)
27
28
29
30
31
32 - IDL (Y/L)
33
34



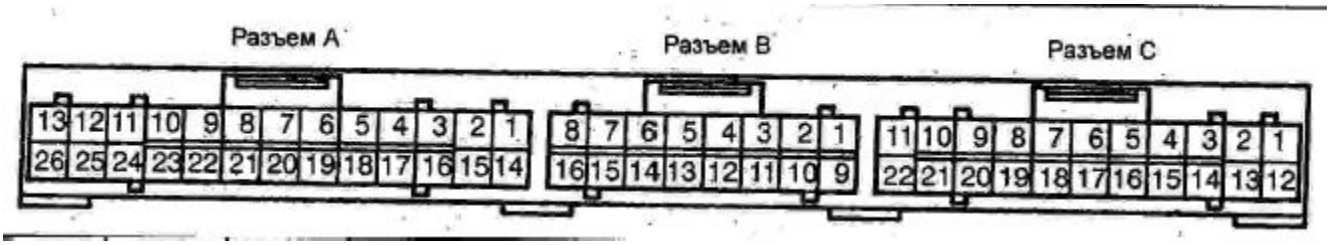


E 8 (D)	E 7 (C)
1	1
2	2
3	3 - W (V)
4	4 - FC (G/Y)
5 - ACT (L/B)	5 - TE1 (V/W)
6	6
7	7
8	8 - EGR (R/W)
9	9 - FPU (R/B)
10	10 - ACV (B/R)
11 - TE2	11
12 - SP1 (G/O)	12
13	13
14 - BATT (B/Y)	14
15	15 - EVP1 (W/G)
16	16 - E1 (BR)
17	
18 - IMI	
19 - IMO	
20 - AC1 (L/Y)	
21	
22 - +B (W/R)	
23	
24	
25	
26 - 4WD Sw.	
27	
28	

5VZ – FE , Surf


#10 #20 #30 #40 #50 #60 E03
HT1 NSW STA IGF S1
IGT 3 IGT 2 IGT 1 RSO RSC VF S2
E01 E02 L4 TT SL
NE- NE SP2- VCC
G- G SP2+ VG VTA
KNK 2 KNK 1 THA OX1 OIL
E2 THW E3
W CCO IDLC
TE1
E1 EVP
OD1 OD2 ACT OIL-W L 2
EGW SP1 TE2 PWR
AC1 TFN BATT
4WD BK FC +B

3RZ-FE – Air Flow



A 26 P

E01	#10	#20	RSO	RSC	EVP	EGR	SP2+	G2+	NE+	IGF	HT1	NSW
E02	#30	#40	S1	S2	SL	IGT1	IGT2	G-	NE-	IGF	TT	E1

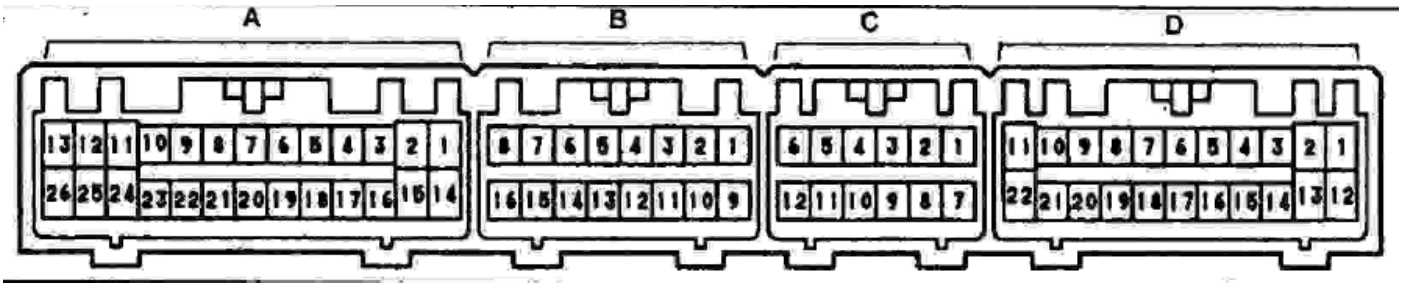
B 16 P

HT	THA	OX1		THW	THA	VG	VC
E3	TE1	TE2	KNK	IDL	VTA	OIL	E2

C 22 P

STA	AC1	SPD	TACH	OD1	OD2	W	TFN	EGW	OIL W	BATT
	4WD	STP	ELS	FPR	2	SIL	TC	FC	SEL	+B

3RZ-FE – Hiace , Regius 1997



A

1		
2		
3	-	HT
4	-	EVP1
5	-	ACT (L/B)
6	-	RSC
7	-	RSO
8		
9		
10		
11	-	#20
12	-	#10
13	-	E01
14	-	
15	-	VF
16		
17	-	IGF
18		
19		
20	-	CF
21		
22	-	
23	-	IGT
24	-	E1
25	-	CASE
26	-	E02

B

1	-	VC
2	-	VG
3	-	E3
4	-	THW
5	-	OX1
6	-	KNK1
7	-	TE1
8	-	ELS
9	-	E2
10	-	VTA
11	-	IDL
12	-	THA
13		
14	-	CCO
15	-	TE2
16	-	

C

1		
2		
3	-	ADJ
4		
5	-	G-
6	-	NE-
7		
8		
9		
10		
11	-	G
12	-	NE+

D

1		
2	-	BATT
3	-	
4	-	W
5	-	
6	-	ACT
7	-	AC1
8	-	SP1
9	-	FC
10	-	
11	-	STA
12		
13		
14		
15	-	
16	-	
17		
18	-	CLBX

	19 **20 - EGW** **21 - STP** **22 - NSW**

3RZ-FE – Surf 1995

A 26 P

E01	#10	#20	RSO	RSC	*	*	SP2+	G+	NE+	IGF	HT1	*
E02	GND	L4	S1	S2	SL	IGT	SP2-	G-	NE-	EVP	TT	E1

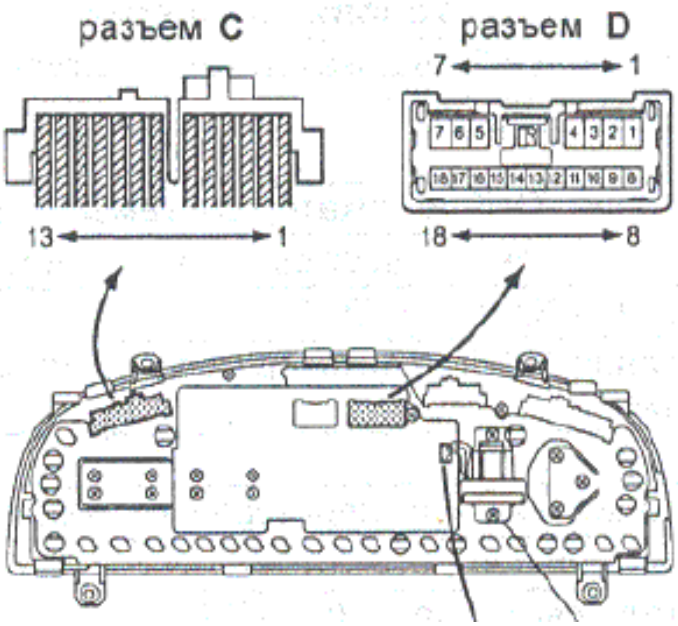
B 16 P

VF	THA	OX1	*	THW	CCO	VG	VC
E3	TE1	TE2	KNK	IDL	VTA	OIL	E2

C 22 P

STA	AC1	SP1	ACT	OD1	OD2	W	TFN	EGW	OIL W	BATT
NSW	4WD	STP	ELS	*	2	L	PWR	FC	*	+B

Combination Meter – Surf 1998



Вывод	Назначение
A1 - масса	A/T OIL TEMP
A2 - масса	AIRBAG +
A3 - масса	AIRBAG –
A5 - масса	BRAKE
A6 - масса	CHG +
A7 - масса (дизель)	FILTER
A8 - масса	масса
A9 - масса	TEMP
A10 - масса	CHG
A11 - масса	BEAM
A12 - масса	ECT PWR
A13 - масса	HARD
A14 - масса (дизель)	TURBO CHECK
A15 - масса	O/D OFF

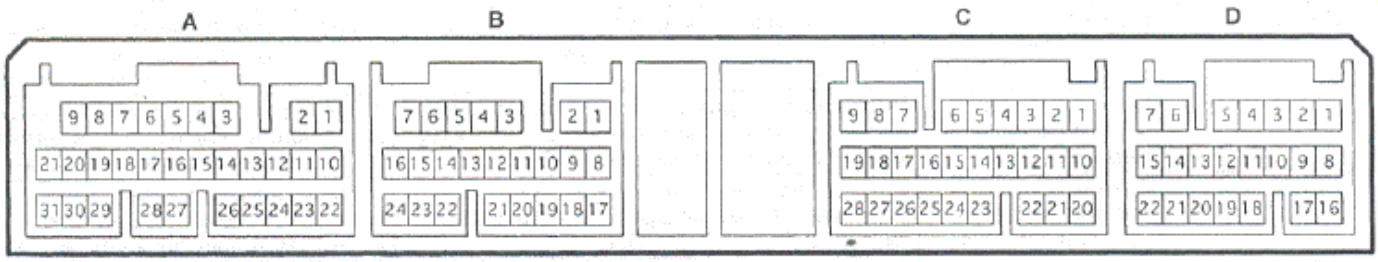
B2 - масса	A/T L
B3 - масса	A/T 2
B4 - масса	A/T D
B5 - масса	A/T N
B6 - масса	A/T R
B7 - масса	A/T P (+)

C1 - масса	TURN (R)
C2 - масса	TURN (L)
C3 - масса	CTR DIFF
C5 - масса	4WD
C8 - масса	A/T P (–)
C10 - масса	ABS
C11 - масса (бензин)	CHECK E/G
C11 - масса (дизель)	GLOW
C12 - масса	IGN (+)
C13 - масса	OIL

D3 - масса	D SEAT BELT
D4 - масса	P SEAT BELT
D8 - масса	P DOOR
D9 - масса	D DOOR
D10 - масса	TIRE
D11 - масса	BACK DOOR
D12 - масса	LUG LP
D13 - масса	DOME LP
D14 - масса	P BELT LP
D15 - масса	KEY ILL

D16 - масса	KEY SW
D17 - масса	масса
D18 - масса (дизель)	OIL LEVEL
E1 - масса	S1
E2 - масса	TM PULSE
E3 - масса	4P OUT
E4 - масса	FUEL (FV)
E5 - масса	FUEL (FR)
E6 - масса	FUEL (FE)
E7 - масса	ST
E8 - масса	масса
E9 - масса	масса датчи-ка скорости
E10 - масса	ILL (+)
E12 - масса	+ B

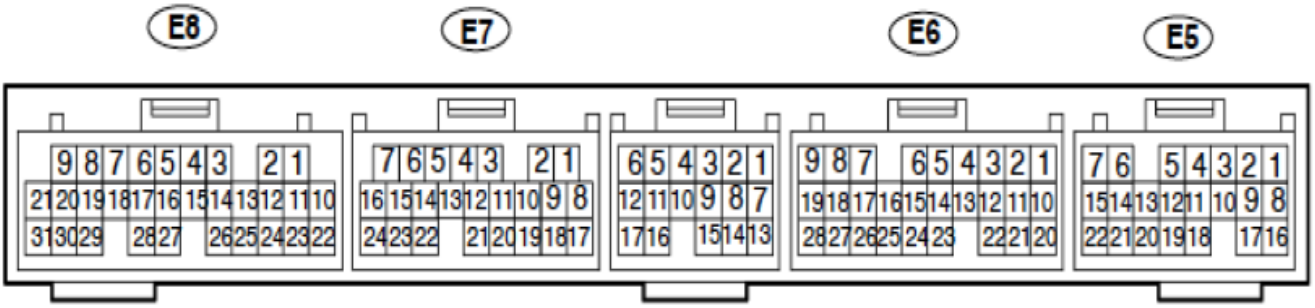
3RZ-FE 2.7 – Surf 2000



A	B
1 - #10	1 -
2 - #20	2 - VC
3 - #30	3 -
4 - #40	4 - HT
5 -	5 - EGR
6 -	6 - EVP
7 -	7 -
8	8 -
9	9 -
10 - IGF	10 -
11 - IGT1	11 - OX
12 - IGT2	12 - THW
13 - IGT3	13
14 - IGT4	14 - VG
15 - RSD	15 - G2+
16	16 - NE+
17 -	17 - E1
18	18 - E2
19	19
20 -	20
21 - E1	21 - THA
22 -	22 - E2G
23 -	23
24 -	24 - NE-
25 -	
26 -	
27	
28	
29	
30	
31 - E1	

C	D
1	1 - BATT
2	2 -
3 -	3 -
4 -	4 -
5 -	5 -
6 - FC	6 - W
7 -	7 - STA
8	8 -
9	9 -
10	10 -
11 -	11 -
12 -	12 - SIL
13 - TACH	13 - AC1
14 - SP2+	14 - ACT
15 -	15 - STP
16	16 - +B
17 -	17
18	18
19	19
20 -	20 - ELS
21	21
22 -	22 - NSW
23 - SP2-	
24 -	
25 -	
26 -	
27	
28 - PSST	

3RZ-FE , direct coil , คันเร่งสาย , A/T ไม่มีไมล์ไฟฟ้า

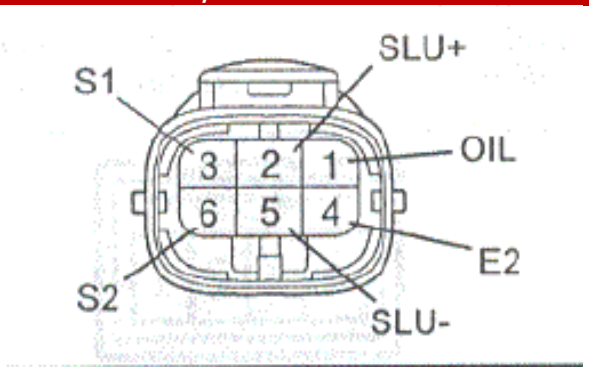


หลัง

E8 (A)	E7 (B)
1 - #10 (L/R)	1 -
2 - #20 (W/R)	2 - VC (R/L)
3 - #30 (L)	3
4 - #40 (R)	4 - HT (B/W)
5	5 - EGR (GR)
6	6 - EVAP (GR/W)
7 - S1 (Y)	7
8 - S2 (Y/R)	8
9 - SLU+ (LG)	9 - VTA (Y)
10 - IGF (Y/G)	10
11 - IGT1 (R/L)	11 - OX (B)
12 - IGT2 (R/W)	12 - THW (L/Y)
13 - IGT3 (R/B)	13
14 - IGT4 (R/Y)	14 - VG (LG)
15 - RSD (B)	15 - G2+ (W)
16 - NCO+ (G/R)	16 - NE+ (R)
17	17 - E1 (BR)
18	18 - E2 (B/R)
19	19
20 - SLU- (L/W)	20
21 - E01 (BR)	21 - THA (L/B)
22	22 - E2G (P)
23	23
24	24 - NE- (G)
25 - OIL (P)	
26 - THO (	
27 - NCO- (G/Y)	
28 - KNK1 (W)	
29	
30	
31 - E02 (BR)	

E6 (C)	E5 (D)
1 -	1 - BATT
2	2 - R
3	3 - L
4	4 - 2
5	5 - OILW
6 - FC	6 - W
7 - TC	7 - STA
8	8
9	9 - TFN
10	10 - OD2
11	11
12	12 - SIL
13 - TAC	13 - AC1
14 - SP2+	14 - ACT
15	15 - STP
16	16 - +B
17	17 - PWR
18	18
19	19
20	20 - ELS
21	21 - SP1
22	22 - NSW
23 - SP2-	
24	
25	
26	
27	
28 - PSST	

A/T Solenoid



5S-FE , CAMRY 1999

E7 (A) 22 P

IGSW	BATT	-	W	OD2	SIL	TACH	SPD	STP	A/C SW.	STA
+B	ELS	FC	L	2	R	OD1	PRS	LOCK	MGC	NSW

E8 (B) 16 P

VC	PIM	THA	THW	OX1	AF+	TE1	PTNK
E2	VTA	THR	KNK	OX2	AF-	EGR	TPC

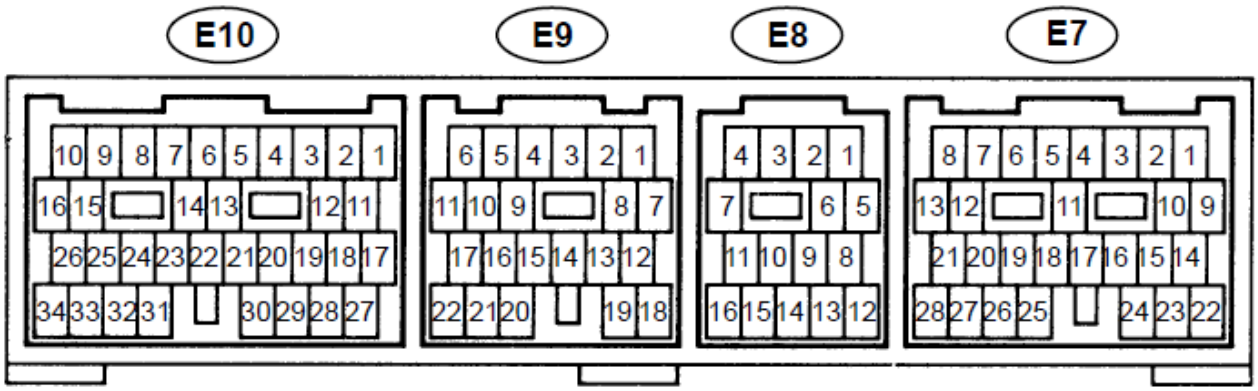
E9 (C) 26 P

HT1	HTAF	EVAP	PSST	-	ISCC	ISCO	S1	#10	#30	#20	#10	E01
HT2	E04	-	IGF	-	LOCK IN	SL	S2	IGT2	IGT1	E1	E03	E02

E10 (D) 12 P

IMLD	EOM	RXCK	KSW	-	NE-
MREL	CODE	TXCT	-	G+	NE+

2MZ-FE ,V6-2.5 -Camry Gracia(89661-3T490)
ไม่มี SPD



34 P (หลังปลั๊ก)

#10 (L)	#20 (R)	#30 (Y)	#40 (W)	#50 (R/L)	#60 (G)	SLU+ (L/R)	SLN+ (W/L)		E1 (BR)
IGT2 (BR/Y)	IGT3 (LG/B)			NSW (B/W)	STA (GR)			IGF (W/R)	S1 (V)
		IGT1 (GR)	RSO (R/W)	RSC (Y/B)					S2 (L/B)
E01 (BR)	E02 (BR)		PSST (B/L)			OIL (B)		E03 (BR)	SL (P/L)

22 P

NE- (L)	NE+ (B/R)	NC2- (G)	SLU- (G/Y)	SLN- (B/Y)	VC (Y)
		NC2+ (R)		VG (P)	VTA1 (L)
G+ (B/W)		KNKR (W)	KNKL (W)	OXR1 (W)	
E2 (BR)	THA (L/Y)	THW (G/B)		OXL1 (B)	FC (G/R)

16 P

	W (G/R)	EVAP (LG)		
E2G (R/B)			ACIS (R/Y)	TC (LG/R)
HTR (L/B)	HTL (Y/R)	CF (G/W)	*	
E1 (BR)	EGLS (W/G)	THG (G/Y)	PTNK (L/R)	EGR (Y/G)

28 P

SIL (W)	OD1 (Y/B)	OD2 (G/O)	ACT (LG/B)		ELS1 (G/O)	ELS2 (B/Y)	L (Y)
TACH (B/O)	SPD (V/W)					2 (L/W)	THWO (V)
		NEO (BR/W)	OXS (B)	HTS (P/B)	A/C (B/Y)	R (R/B)	BATT (B/Y)
TRC+ (G)	TRC- (L)	EFI+ (W)	EFI- (B)		STP (G/W)	+B1 (B/Y)	

E 10 (D) หลัง

1 - E1 (BR)
2
3 - SLN+ (W/L)
4 - SLU+ (L/R)
5 - #60 (G)
6 - #50 (R/L)
7 - #40 (W)
8 - #30 (Y)
9 - #20 (R)
10 - #10 (L)
11 - S1 (V)
12 - IGF (W/R)
13 - STA (GR)
14 - NSW (B/W)
15 - IGT3 (LG/B)
16 - IGT2 (BR/Y)
17 - S2 (L/B)
18
19
20
21
22 - RSC (Y/B)
23 - RCO (R/W)
24 - IGT1 (GR)
25
26
27 - SL (P/L)
28 - E03 (BR)
29
30 - A/T Sol (B)
31 - PSST (B/L)
32
33 - E02 (BR)
34 - E01 (BR)

E 8 (B)

1 -
2 - EVP1 (LG)
3 - W (G/R)
4 -
5 - TC (LG/R)
6 - ACIS (R/Y)
7 - E2G (R/B)
8 - TPC (W/R)
9 - CF (G/W) ต่อพ่วง Fan Sw.
10 - HTL (Y/R)
11 - HTR (L/B)
12 - EGR (Y/G)
13 - PTNK (L/R)
14 - THG (G/Y)
15 - EGLS (W/G)
16 - E1 (BR)

E 9 (C) หลัง

1 - VC (Y)
2 - SLN- (B/Y)
3 - SLU- (G/Y)
4 - NC2- (G)
5 - NE+ (B/R)
6 - NE- (L)
7 - VTA1 (L)
8 - VG (P)
9 - NC2+ (R)
10 -
11 -
12
13 - OXR1 (W)
14 - KNKL (W)
15 - KNKR (W)
16 -
17 - G+ (B/W)
18 - FC (G/R)
19 - OXL1 (B)
20 - THW (G/B)
21 - THA (L/Y)
22 - E2 (BR)

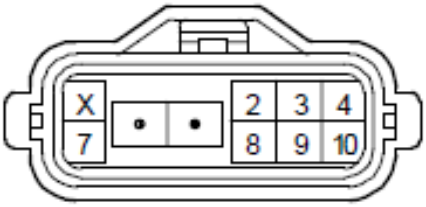
E 7 (A)

1 - L (Y)
2 - ELS2 (B/Y)
3 - ELS (G/O)
4 -
5 - ACT (LG/B)
6 - OD2 (G/O)
7 - OD1 (Y/B)
8 - SIL (W)
9 - THWO (V)
10 - 2 (L/W)
11 -
12 - SPD (V/W)
13 - TACH (B/O)
14 - BATT (B/Y)
15 - R (R/B)
16 - A/C (B/Y)
17 - HTS (P/B)
18 - OXS (B)
19 - NEO (BR/W)
20 -
21 -
22 -
23 - +B (B/Y)
24 - STP (G/W)
25 - EFI- (B)
26 - EFI+ (W)
27 - TRC- (L)
28 - TRC+ (G)

A/T Solenoid (หน้าปลั๊ก)

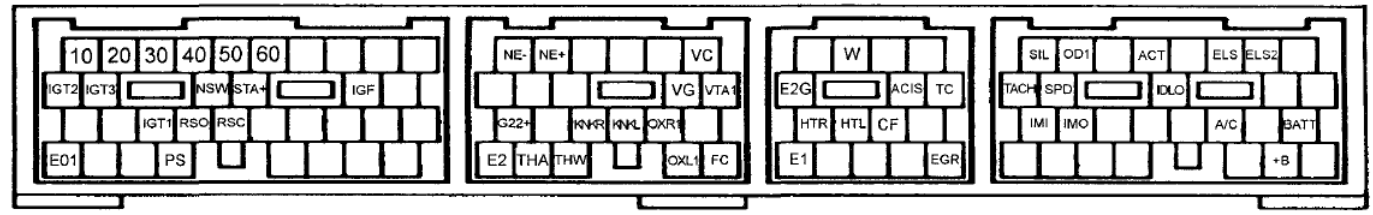
SL (P/L)	**OIL (B)**	**SLN+ (W/L)**	**SLU+ (L/R)**	**S1 (V)**
-	**BR (E2)**	**SLN- (B/Y)**	**SLU- (G/Y)**	**S2 (L/B)**

A/T Position Sw. (หน้าปลั๊ก)



2 - IG (R/L)
3 - 2 (L/W)
4 - L (Y)
7 - P (G/W)
8 - R (R/B)
9 - N (R)
10 - D (B/R)

1MZ-FE (V6-3.0) Camry Gracia
มี SPD



1MZ-FE (MCV20).

34 P (หลังปลั๊ก)

#10	#20	#30	#40	#50	#60		SLN+		
IGT2	IGT3			NSW	STA			IGF	S1
		IGT1	RSO	RSC					S2
E01			PS						SL

22 P

NE-	NE+	NC2-		SLN-	VC
		NC2+		VG	VTA1
G2+		KNKR	KNKL	OXR1	
E2	THA	THW		OXL1	FC

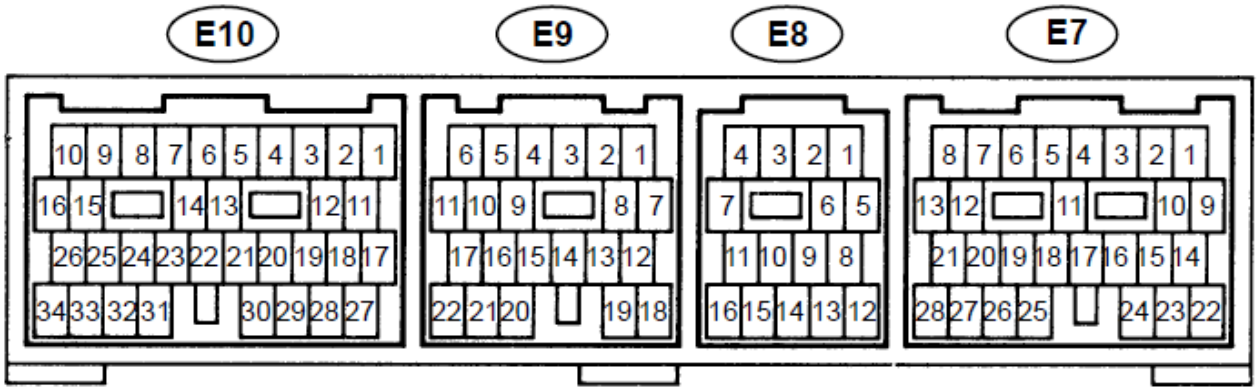
16 P

	W	EVAP	
E2G		ASIS	TC
HTR	HTL	CF	*
E1	*		

28 P

SIL	OD1	OD2	ACT		ELS1	ELS2	L
TACH	SPD		IDLO		2		THWO
CCO	EGW	NEO	*	*	A/C	R	BATT
TRC+	TRC-	EFI+	EFI-		STP	+B1	KD

1MZ-FE (V6-2.5) Direct Coil
(89661-07040) ปี 1994 มี SPD



34 P (A) หลังปลั๊ก

#10 (W)	#20 (Y)	#30 (GR)	#40 (L)	#50 (R)	#60 (G)		SLN- (Y/G)		
IGT2 (Y/R)	IGT3 (GR/B)			NSW (B/W)	STA (B/R)			IGF (W/R)	S1 (V)
IGT4 (L/B)	FPU (B/R)	IGT1 (W/G)	RSO (G/B)	RSC (Y/B)					S2 (P/L)
E01	E02	IDL (L/W)				IGT5 (R/B)	IGT6 (G/R)	E03	SL (L/Y)

22 P (B)

NE- (G)	NE+ (R)	NC2- (W/L)			VC (L/R)
		NC2+ (Y/L)		VG (R)	VTA1 (B/Y)
G22- (L)	G22+ (B/W)	KNKR	KNKL	OXR1	
E2	THA (L/B)	THW (G)		OXL1	FC (G)

16 P (C)

	W (G/R)		ACV (W/L)
E2G (R/B)		ACIS (R/Y)	TE1 (GR/B)
HTR (L/B)	HTL (V/R)		
E1	THG (G/Y)		EGR (B/L)

28 P (D)

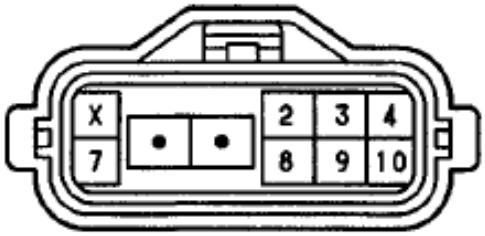
	OD1 (Y/B)	OD2 (G/O)	ACT (LG/R)		PWR (L/R)	L (Y/L)	
TACH (B)	SP1 (V/Y)		TE2 (G/W)		2 (O)		
ELS (B/R)	A/C (B/Y)					R (R/B)	BATT (W/L)
SDL (W)		OXS	HTS		STP (G/W)	+B (B/O)	+B (B/O)

A/T Solenoid (1AZ-FE)



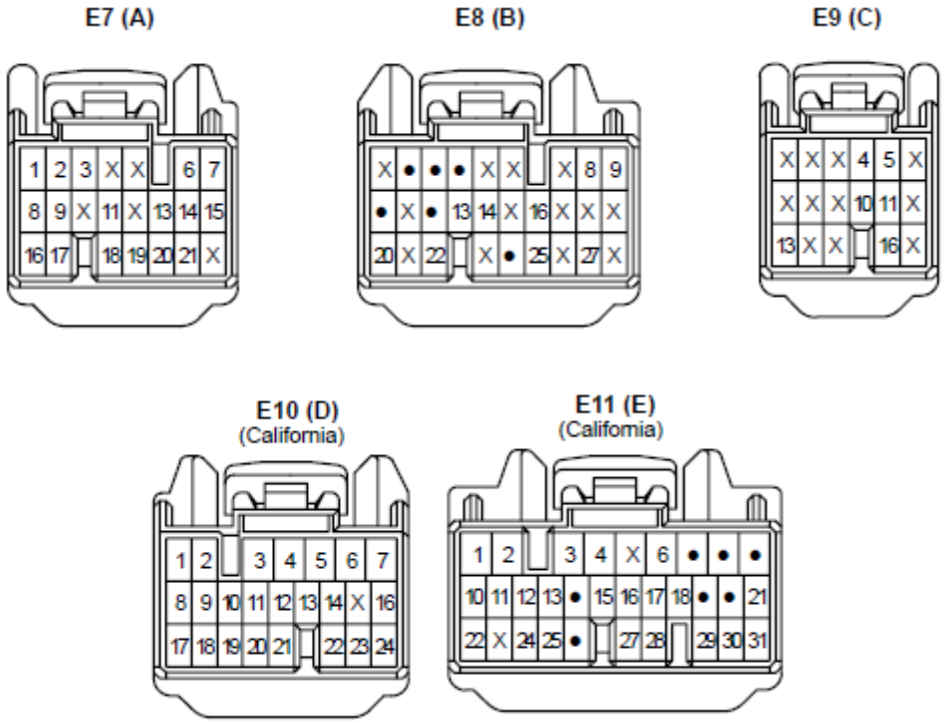
+B (B/O)	SL (L/Y)	S1 (V)
SLN- (Y/G)	-	S2 (P/L)

A/T Position Sw. (1AZ-FE)



1 - @
2 - IG (R/L)
3 - 2 (O)
4 - L (Y/L)
5 - NSW (B/W)
6 - STA (B)
7 - P (G/W)
8 - R (R/B)
9 - N (R)
10 - D (B/O)

1MZ-FE (V6-2.5) Direct Coil , Camry -1999



E11 , E (31 P)

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E10 , D (24 P)

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E8 , B (28 P)

1
2
3
4
5

E9 , D (17 P)

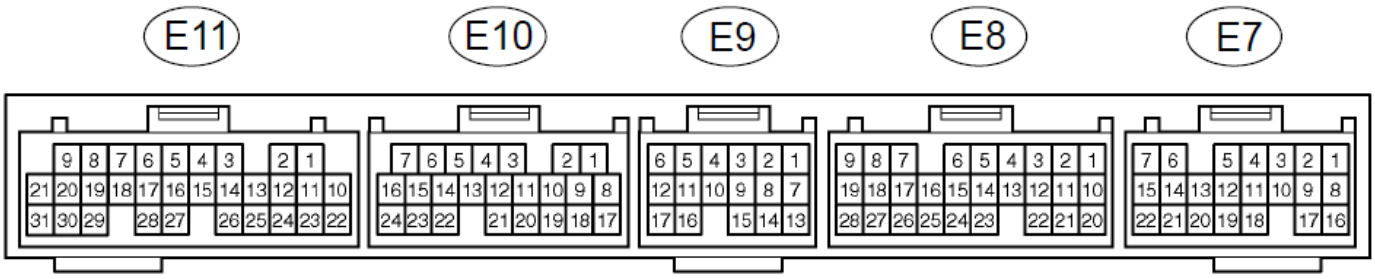
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E7 , A (22 P)

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1MZ-FE VVT – Direct Coil (V6-3.0) Alphard 2002
89661-22870 , 4 A/T 10 เส้น, คันเร่งสาย



31P (C) (หลังปลั๊ก)

SL2+ (V)	SL2- (P/B)	DSL (V/G)	OC1+ (BR/R)	OC1- (BR/Y)	#60 (G)	#50 (R/L)			#40 (R)	#30 (L)	
E01 (W/B)	SL1+ (P/G)	SL1- (P/L)	OC2- (B/O)	ACIS (B/L)	IGT6 (GR)	IGT5 (G/Y)	IGT4 (G/R)	IGT3 (G/W)	IGT2 (R/B)	IGT1 (G)	VV1+ (W)
E02 (W/B)	-	OC2+ (B/L)		KNKL (GR)	KNKR (B)		RSO (G)	IGF (G/B)	NC+ (R/L)	NC- (L/Y)	VV2+ (R)

24 P (B)

EVP1 (B/Y)	#20 (R/W)	#10 (R/B)	HTL (Y)	HTR (Y)		VC (W/R)	-	
NE+ (Y)	ACI1 (G/B)	THW (Y/B)	THO (GR/G)	OXL1 (W)	OXR1 (B)	VG (GR/L)	PSST (L)	-
NE- (L)	VTA1 (W)	THA (GR/R)		-	-	E2G (GR)	E2 (BR)	E1 (BR)

17 P (A)

-	NT+ (G)	NT- (R)	SLT+ (V/W)	SLT- (V/R)	S4 (V/Y)
	-	-	3 (L/W)	R (LG/B)	
-	D (L)		-	2 (L/B)	L (L/R)

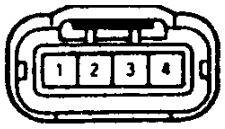
28 P (E)

-	-	AC (P/G)		ACMG (W/G)	TC (R/L)	ELS (G)	-	-	EOM (W/B)
RXCK	TXCT	-	NEO	-	RFC (P/B)	ELS2 (O)	-	-	OD2 (L)
CODE	TACH (P)	PR2 (LG/R)	IDLO (LG)	OD1 (P)	KSW (W/L)		SPD (V/W)	-	NSW (W/L)

22 P (D)

STA (B/W)	W (G/W)		-	SIL (R/Y)	FC (Y)	IGSW (B/R)	BATT (B/Y)
STP (G/B)	ENG+	TRC +	F/PS (P)	-	-	-	MREL (B/R)
OILW (G/O)	ENG-	TRC -	-	-		-	+B (B/R)

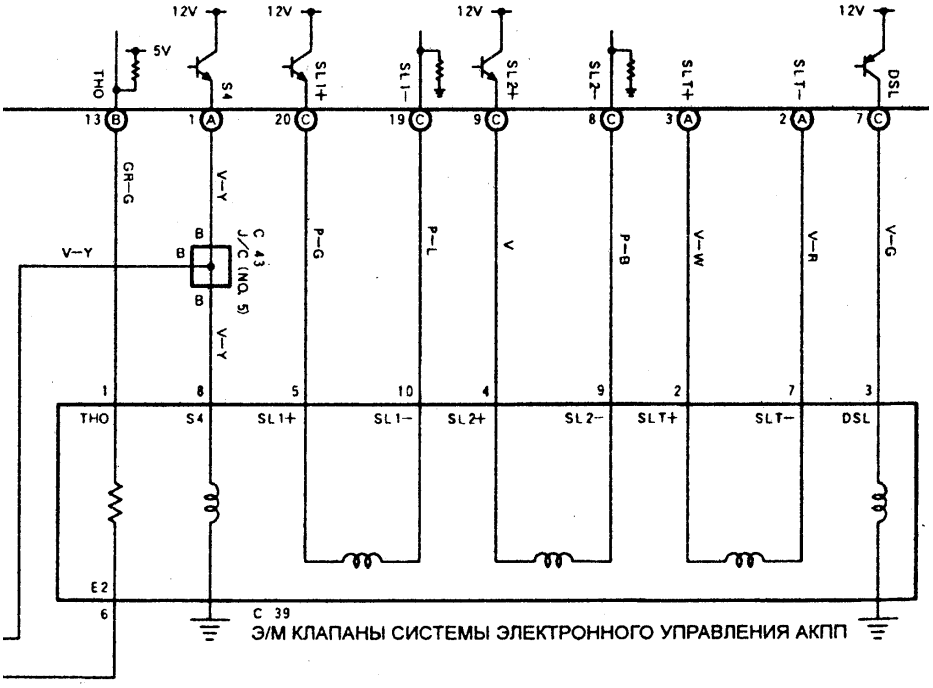
Direct Coil



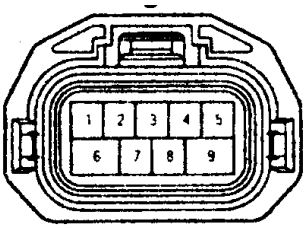
+B (B)	IGF	IGT	E1 (BR)

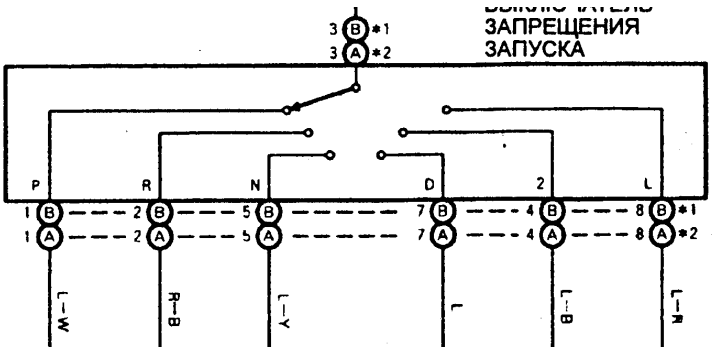
A/T Solenoid 10 เส้น





A/T Position Sw.





1MZ-FE VVT – Alphad 2002

Разъем A

SL2+	SL2-	DSL	OC1+	OC1-	#60	#50					#40	#30
E01	SL1+	SL1-	OC2-	ACIS	IGT6	IGT5	IGT4	IGT3	IGT2	IGT1	VV1+	
E02		OC2+		KNKL	KNKR		RSO	IGF	NC+	NC-	VV2+	

Разъем B

EVP1	#20	#10	HTL	HTR				VC	
NE+	ACI1	THW	THO	OXL1	OXR1	VG		PS	
NE-	VTA1	THA					E2G	E2	E1

Разъем C

ADJ1	NT+	NT-	SLT+	SLT-	S4	
ADJ2	ACM1		3	R		
	D			2	L	

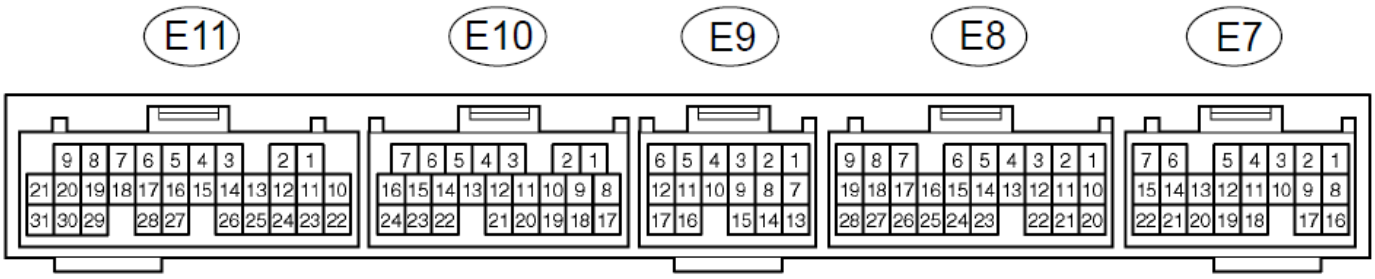
Разъем D

		AC		ACMG	TC	ELS			EOM	
RXCK	TXCT		NEO		RFC	ELS2				
CODE	TACH	PR2	IDLO	OD1	KSW		SPD		NSW	

Разъем E

STA	W		SIL	FC	IGSW	BATT		
STP	ENG+	TRC+	F/PS				MREL	
IMLD	ENG-	TRC-				+B		

1MZ-FE VVT – Direct Coil (V6-3.0) Estima 2003
89661-22870 , 4 A/T 10 เส้น, คันเร่งสาย



31P (C) (หลังปลั๊ก)

SL2+ (V)	SL2- (P/B)	DSL (V/G)	OC1+ (BR/R)	OC1- (BR/Y)	#60 (G)	#50 (R/L)			#40 (R)	#30 (L)	
E01 (W/B)	SL1+ (P/G)	SL1- (P/L)	OC2- (B/O)	ACIS (B/L)	IGT6 (GR)	IGT5 (G/Y)	IGT4 (G/R)	IGT3 (G/W)	IGT2 (R/B)	IGT1 (G)	VV1+ (W)
E02 (W/B)	-	OC2+ (B/L)		KNKL (GR)	KNKR (B)		RSO (G)	IGF (G/B)	NC+ (R/L)	NC- (L/Y)	VV2+ (R)

24 P (B)

EVP1 (B/Y)	#20 (R/W)	#10 (R/B)	HTL (Y)	HTR (Y/R)		VC (W/R)	-	
NE+ (Y)	ACI1 (G/B)	THW (Y/B)	THO (GR/G)	OXL1 (W)	OXR1 (B)	VG (GR/L)	PSST (L)	-
NE- (L)	VTA1 (W)	THA (GR/R)		-	-	E2G (GR)	E2 (BR)	E1 (BR)

17 P (A)

-	NT+ (G)	NT- (R)	SLT+ (V/W)	SLT- (V/R)	S4 (V/Y)
ODMS (L)	-	-	P (L/W)	R (LG/B)	N (L/Y)
-	D (L)		-	2 (L/B)	L (L/R)

28 P (E)

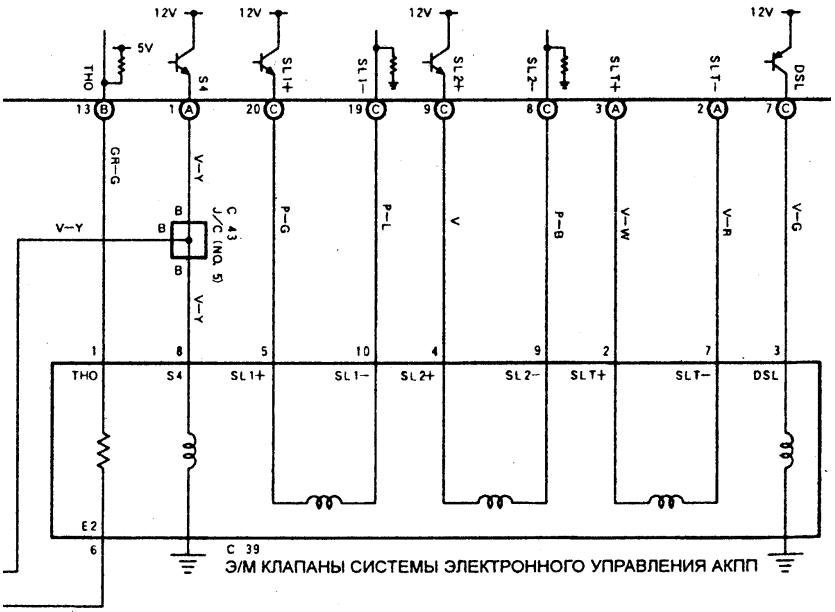
-	-	AC (P/G)		ACMG (W/G)	TC (R/L)	ELS (G)	-	SPT (P)	EOM (W/B)
RXCK	TXCT	-	NEO (BR/B)	-	RFC (P/B)	ELS2 (O)	SFTD (W/G)	SFTU (W/R)	OD2 (L)
CODE	TACH (P)	PR2 (LG/R)	IDLO (LG)	OD1 (P)	KSW (W/L)		SPD (V/W)	-	NSW (W/L)

22 P (D)

STA (B/W)	W (G/W)		-	SIL (R/Y)	FC (Y)	IGSW (B/R)	BATT (B/Y)
STP (G/B)	ENG+ (L/W)	TRC + (BR)	F/PS (P)	-	-	ODLP (L)	MREL (B/R)
OILW (G/O)	ENG- (O)	TRC – (G/W)	-	-		-	+B (B/R)

A/T Solenoid 10 เส้น

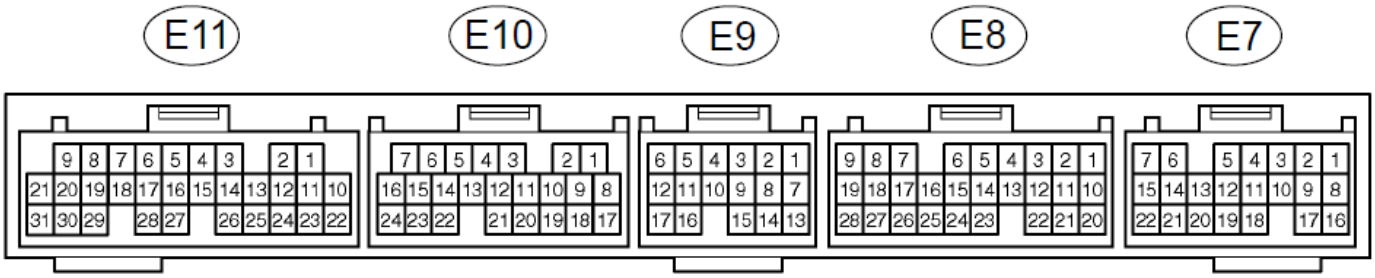




A/T Position Sw.



1MZ-FE VVT – Direct Coil (V6-3.0) Harrier 2000



31P (O) (หลังปลั๊ก)

SL2+ (R/B)	SL2- (R/W)	DSL (R/L)	OC1+ (Y/B)	OC1- (G/W)	#60 (G)	#50 (R)		#40 (L)	#30 (B)		
E01 (W/B)	SL1+ (L/B)	SL1- (L/W)	OC2- (G/Y)	ACIS (R/Y)	IGT6 (G/B)	IGT5 (Y)	IGT4 (L/Y)	IGT3 (L/O)	IGT2 (L/R)	IGT1 (B/Y)	VV1+ (O)
E02 (W/B)	-	OC2+ (B/L)		KNKL (B)	KNKR (W)		RSO (Y/R)	IGF (B)	NC+ (R)	NC- (G)	VV2+ (L)

24 P (N)

EVP1 (B/Y)	#20 (Y)	#10 (W)	HTL (Y)	HAFR (L)		VC (Y/B)	-	
NE+ (B)	ACI1 (G/B)	THW (G/W)	THO (G/Y)	OXL1 (W)	OXR1 (B)	VG (Y/R)	PSST (L)	-
NE- (W)	VTA1 (L/W)	THA (L/B)		-	-	E2G (BR/W)	E2 (BR)	E1 (BR)

17 P (D)

-	NT+ (L)	NT- (LG)	SLT+ (V/W)	SLT- (G)	S4 (R/Y)
ODMS (GR/L)	-	-	P (G/W)	R (R/B)	N (R/W)
-	D (G/R)		-	2 (G/Y)	L (L/R)

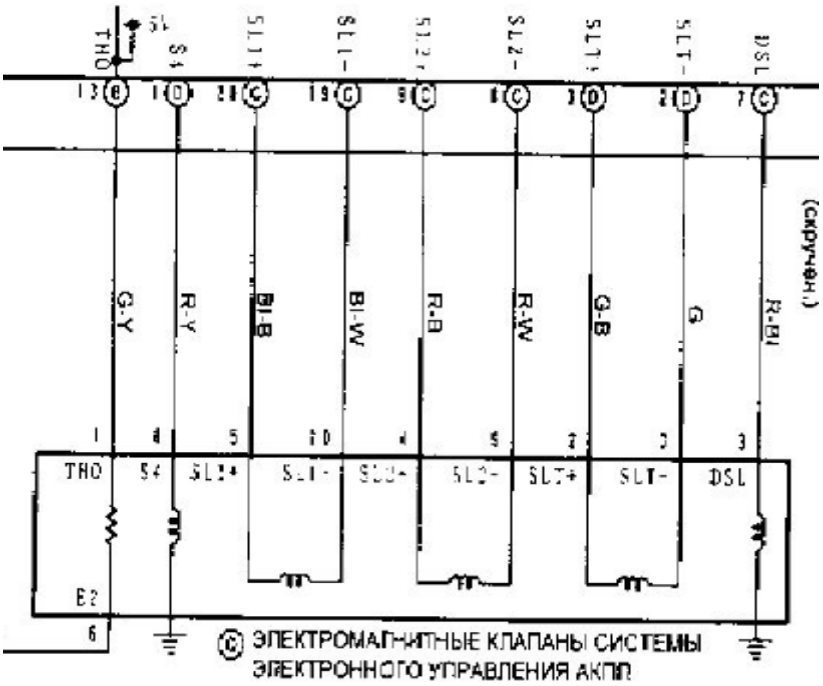
28 P (E)

-	-	AC (P/G)		ACMG (W/G)	TC (R/L)	ELS (G)	-	SPT	EOM (W/B)
RXCK	TXCT	-	NEO	-	RFC (P/B)	ELS2 (O)	SFTD (G/B)	SFTU (R)	OD2 (B/O)
CODE	TACH (O)	PR2 (LG/R)	IDLO (LG)	OD1 (P)	KSW (W/L)		SPD (V/W)	-	NSW (W/L)

22 P (L)

STA (B)	W (G/W)		-	SIL (R/Y)	FC (L/Y)	IGSW (B/O)	BATT (B/Y)
STP (L)	ENG+	TRC +	F/PS (P)	MPX1 (Y)	-	ODLP (R/W)	MREL (B/W)
OILW (G/O)	ENG-	TRC -	-	-		-	+B (B/R)

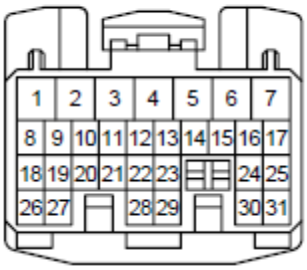
A/T Solenoid 10 เส้น



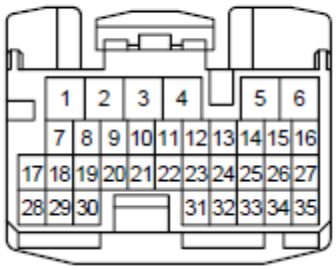
1MZ-FE (V6-3.0) VVT

RX350 – 2002 , 5 A/T 13 เส้น , + - , IMO แยกกล่อง

E 6

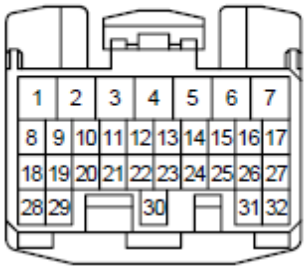


E 7

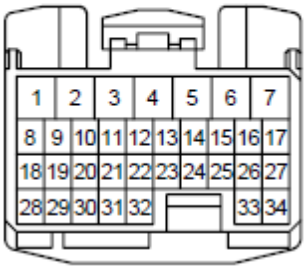


E6 (A)		E7 (B)	
1	+B (L/B)	1	HP (Y)
2	+B1 (L/B)	2	ACMG (O)
3	BATT (B)	3	
4		4	
5	TACH (W)	5	
6	P (L)	6	+BM (LG)
7	N (GR)	7	
8	MREL (LG)	8	
9	IGSW (G)	9	
10	FC (O)	10	D (BR)
11	W (BR)	11	R (Y)
12		12	
13		13	
14		14	
15		15	
16		16	
17	NEO (P)	17	SPD (LG)
18	SIL (GR)	18	MPEX1
19	WFSE (P)	19	STP (B)
20	TC (BR)	20	
21		21	SFTD (Y)
22	VPA (W)	22	SFTU (W)
23	VPA2 (R)	23	S Sw. (SB)
24	ENG+ (LG)	24	
25	TRC+ (Y)	25	
26	VCPA (B)	26	IMO
27	VCP2 (SB)	27	IMI
28	EPA (V)	28	
29	EPA2 (O)	29	MPEX2
30	ENG- (L)	30	KD (BR)
31	TRC- (G)	31	
		32	TAM (V) , A/C Ambient Temp. Sen.
		33	
		34	
		35	

E 8



E 9



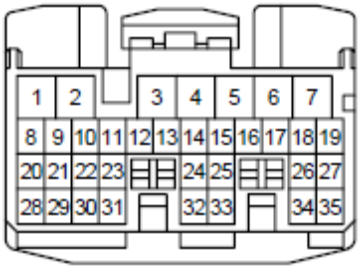
E8 (C)

1 - E1 (BR)
2 - M- (W)
3 - M+ (B)
4 - ME01 (W/B)
5 -
6 - ACM (Y/G) , VSV ACM
7 - E03 (W/B)
8 - PR2 (L/W)
9 - RFC (G/Y) , Cooling Fan ECU
10 - PSW (R/W) , Power Steering Sw.
11 -
12 -
13 - OC2- (G/B)
14 - OC2+ (L/R)
15 - OC1- (G/R)
16 - OC1+ (G/W)
17 - GE01
18 -
19 -
20 -
21 - RL
22 - MOPS (Y/B) , Oil Sw.
23 -LCK1 (W/L) , A/C Compressor Lock Sen.
24 - NE- (G)
25 - NE+ (R)
26 - VV2+ (L)
27 - VV1+ (B/W)
28 -
29
30
31 -
32

E9 (E)

1 - #10 (L)
2 - #20 (Y)
3 - #30 (B)
4 - #40 (W)
5 - #50 (B/W)
6 - E02 (W/B)
7 - E01 (W/B)
8 - IGT1 (R/L)
9 - IGT2 (P)
10 - IGT3 (Y/B)
11 - IGT4 (L/Y)
12 - IGT5 (G/Y)
13 - IGT6 (L/R)
14 - ACI1 (W/G) , VSV EGR
15 - ACIS (R/Y)
16 - NSW (B/Y)
17 - STA (B)
18 - VC (Y)
19 - THW (G/B)
20 - THA (L/B)
21 - VTA1 (R/W)
22 -
23 -
24 - IGF1 (W/R)
25
26 -
27 -
28 - E2 (BR)
29 - E2G (L/W)
30 - VG (R)
31 -
32 - VTA2 (B/R)
33 - AICV (W)
34 - PRG (G)

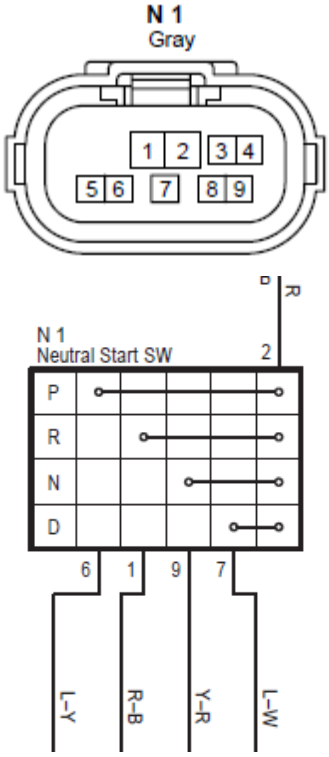
E10



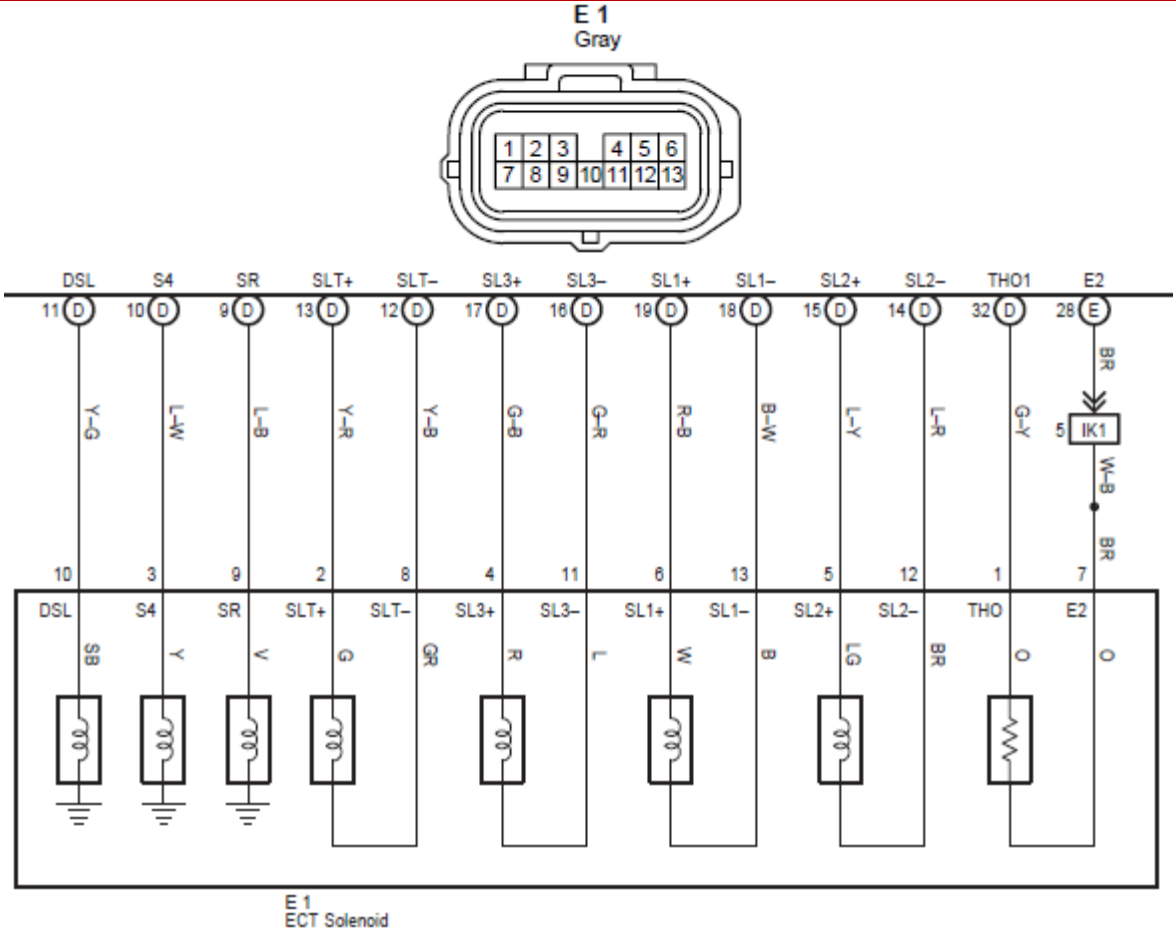
E10 (D)

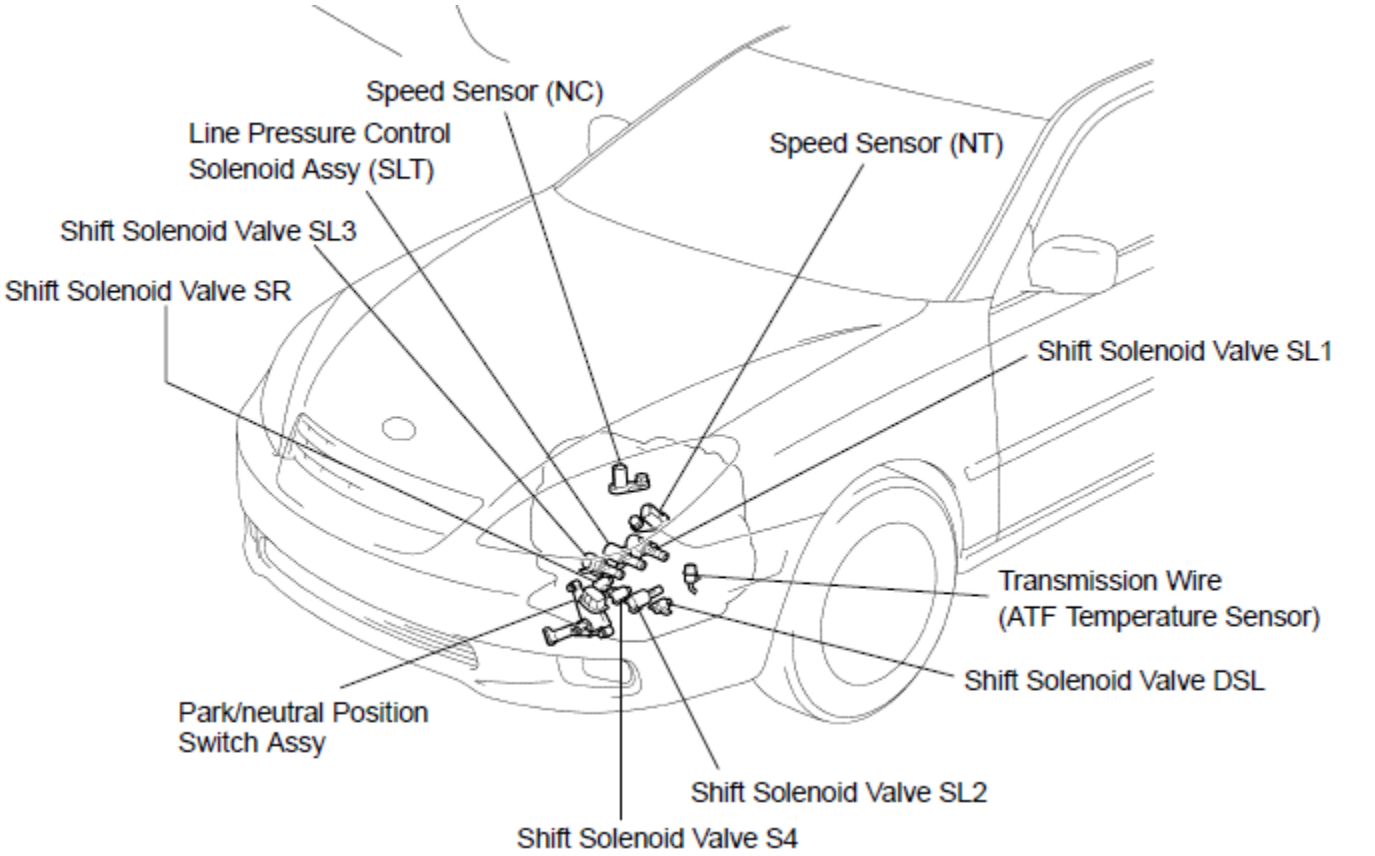
1 - KNK1 (B)
2 -
3 - #60 (G)
4 - HA2A (R/W)
5 - HA1A (B/W)
6 - E05 (W/B)
7 - E04 (W/B)
8 -
9 - SR (L/B)
10 - S4 (L/W)
11 - DSL (Y/G)
12 - SLT- (Y/B)
13 - SLT+ (Y/R)
14 - SL2- (L/R)
15 - SL2+ (L/Y)
16 - SL3- (G/R)
17 - SL3+ (G/R)
18 - SL1- (B/W)
19 - SL1+ (R/B)
20 - EKN2 (W)
21 - OX1B (W)
22 - A1A+ (BR)
23 - A2A+ (P)
24 -
25 - HT1B (R/Y)
26 - NC+ (R)
27 - NT+ (W)
28 -
29 - OX2B (B)
30 - A1A- (Y)
31 - A2A- (L)
32 - THO1 (G/Y)
33 - HT2B (W/L)
34 - NC- (W/G)
35 - NT- (R/W)

A/T Position Sw.



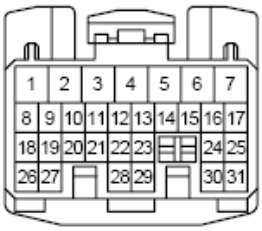
A/T Solenoid 13 เส้น



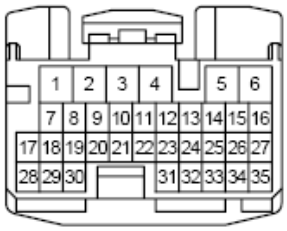

Speed Sensor (NC)
Line Pressure Control
Solenoid Assy (SLT)
Speed Sensor (NT)
Shift Solenoid Valve SL3
Shift Solenoid Valve SR
Shift Solenoid Valve SL1
Transmission Wire
(ATF Temperature Sensor)
Shift Solenoid Valve DSL
Park/neutral Position
Switch Assy
Shift Solenoid Valve SL2
Shift Solenoid Valve S4

1MZ-FE , 3MZ-FE - V6 , CAMRY 2005

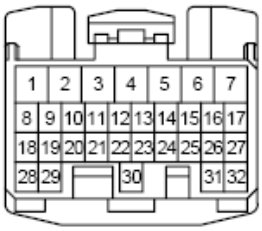
E 6



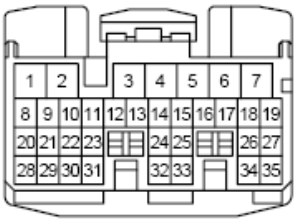
E 7



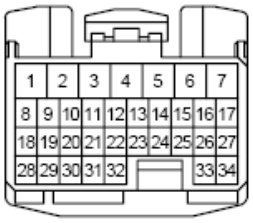
E 8



E 9



E10



E 6 (A) หน้า

1 - + B (B/R)
2
3
4 - TBP (V) , -
5 - TACH (B/O)
6
7
8 - MREL (B/W) , +
9 - IG (B/O)
10 - FC (G/R)
11 - TC (P/B)
12 - W (G/R)
13 - ELS (G)
14 - ELS2 (B/Y)
15 - EOM (BR)
16 - ODMS (G/O)
17 - NEO (BR/W)
18 - SIL (W)
19 - WFSE (R)
20
21 - PTNK (P)
22 - VPA (L/Y)
23 - VPA2 (W/R)
24 - ENG+ (W)
25 - TRC+ (G)
26 - VCP2 (R)
27 - VCPA (B/R)
28 - EPA2 (LG/B)
29 - EPA (LG)
30 - ENG- (B)
31 - TRC- (L)

E 7 (B) หน้า

1
2 - BATT (B/Y)
3 - ACMG (L/W)
4
5
6 - +BM (L/R)
7 - ODLP (O)
8 - L (Y)
9 - 2 (L/W)
10 - D (W/L)
11 - R (R/B)
12
13
14 - THWO (Y/G)
15 - CODE (G/W)
16 - IMLD (V)
17 - SPD (V/W)
18
19 - STP (G/W)
20
21
22
23
24
25
26 - TXCT (L/Y)
27 - RXCK (R/L)
28
29
30
31 - A/CS (P/L)
32
33 - A/CI (B)
34 - KSW (L)
35

E 8 (C)

1 - E1 (BR)
2 - M- (W)
3 - M+ (B)
4 - ME01 (W/B)
5 - HT2B (Y)
6 - HT1B (L)
7 - E03 (W/B)
8 - CF (G/W)
9
10 - PS (R/W)
11 - EVP1 (LG)
12 - CCV (L), +
13
14
15
16
17 - GE01 (B)
18
19
20
21
22
23
24
25
26
27 - G2+ (B/W)
28
29
30
31
32

E 9 (D)

1 - KNKR (B)
2 - KNKL (W)
3 - HAFL (B/W)
4 - HAFR (B/W)
5 - # 60 (G)
6 - E05 (W/B)
7 - E04 (W/B)
8 - NSW (B/Y)
9 - STA (B/W)
10
11 - DSL (Y)
12
13 - S4 (L)
14
15
16 - SL2- (L/R)
17 - SL2+ (L/Y)
18 - SL1- (P)
19 - SL1+ (R/B)
20 - EGR (Y/G)
21 - OX1B (W)
22 - AFR+ (BR)
23 - AFL+ (O)
24 - VG (R)
25
26 - NC+ (R)
27 - NT+ (L)
28 - EGLS (W/G)
29 - OX2B (B)
30 - AFR- (B/R)
31 - AFL- (W)
32 - E2G (L/W)
33
34 - NC- (G)
35 - NT- (LG)

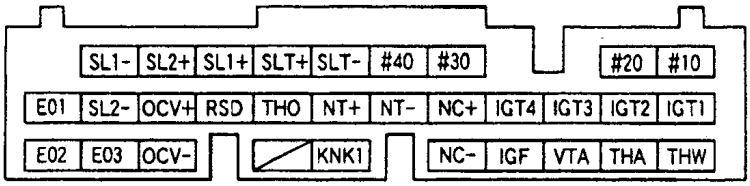
E 10 (E)

1 - # 10 (L)
2 - # 20 (R)
3 - # 30 (Y)
4 - # 40 (W)
5 - # 50 (R/L)
6 - E02 (W/B)
7 - E01 (W/B)
8 - IGT1 (R/W)
9 - IGT2 (P)
10 - IGT3 (LG/B)
11 - IGT4 (L/Y)
12 - IGT5 (G/R)
13 - IGT6 (L)
14
15 - ACIS (R/Y), -
16 - SLT- (Y/B)
17 - SLT+ (Y/R)
18 - VC (Y)
19 - THW (G/B)
20 - THA (L/B)
21 - VTA1 (LG)
22
23 - IGF (W/R)
24
25 - ACIV (W), -
26

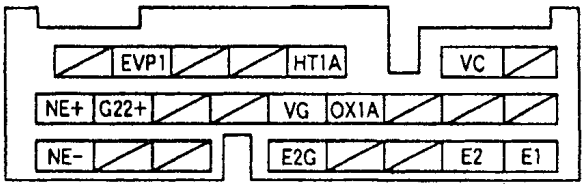
27 - NE+ (R) **28 - E2 (BR)** **29 - THG (G/Y)** **30 - THO (G/R)** **31 - VTA2 (B/R)** **32** **33** **34 - NE- (G)** **35**	

1AZ-FE , Alphard 2000

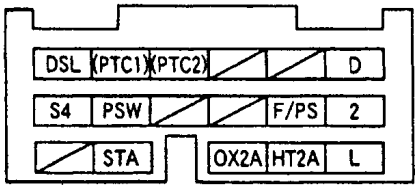
Разъем A



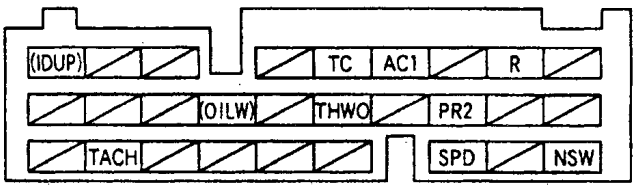
Разъем B



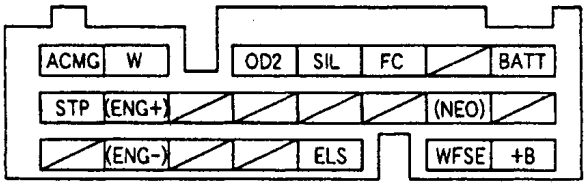
Разъем C



Разъем D

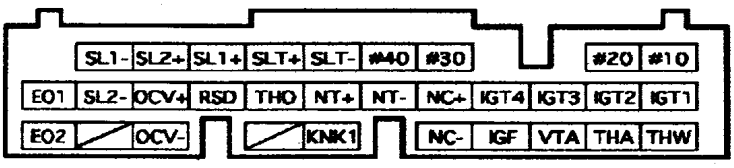


Разъем E

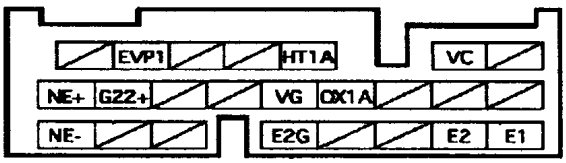


2AZ-FE , Alphard 2002

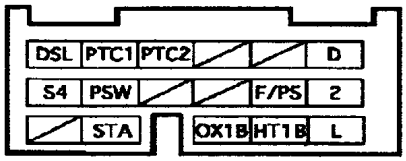
Разъем A



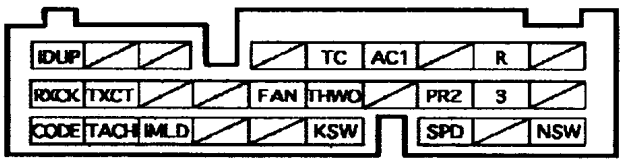
Разъем B



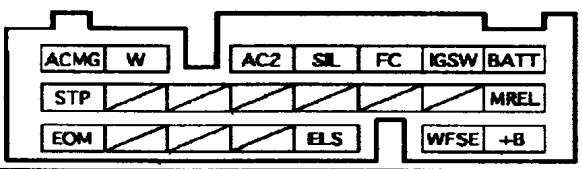
Разъем C



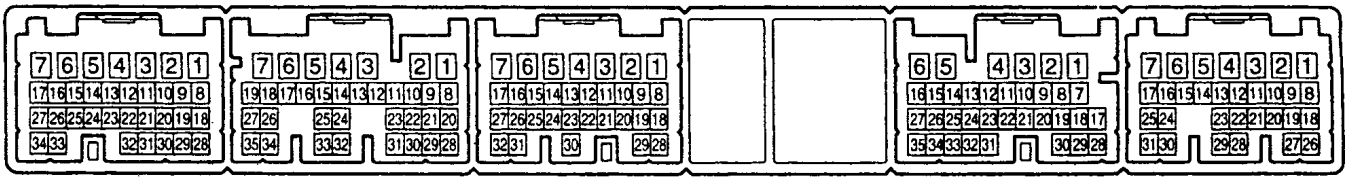
Разъем D



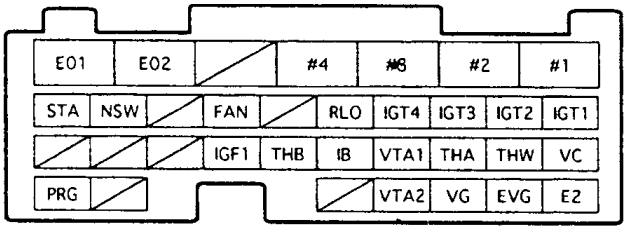
Разъем E



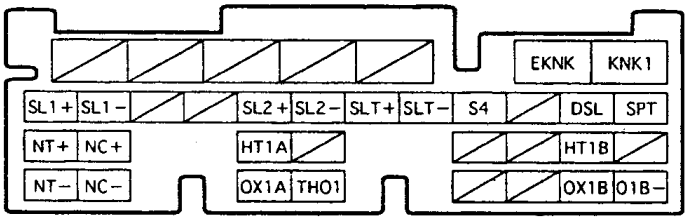
1AZ-FE , Estima 2003



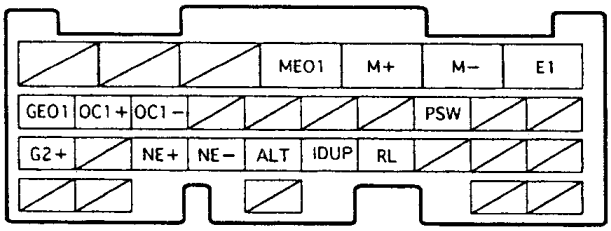
Разъем A Разъем B Разъем C Разъем D Разъем E



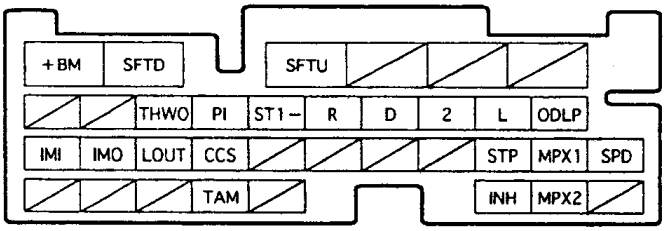
Разъем A



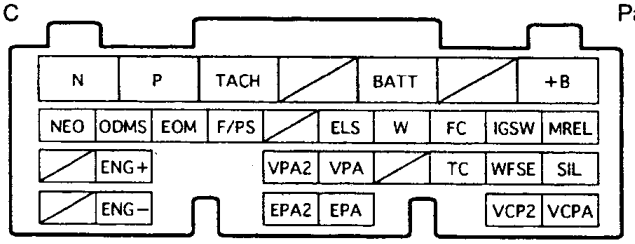
Разъем B



Разъем C

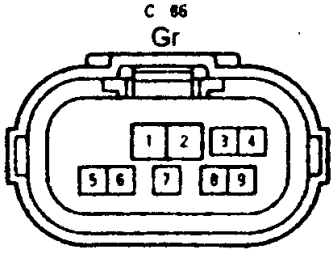


Разъем D



Разъем E

A/T Position Sw.

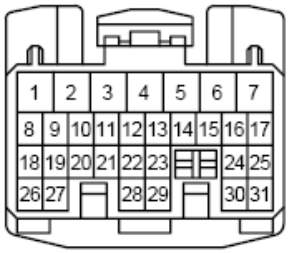


R (R/B)	**IG (R/L)**	**2 (L/B)**	**NSW (W/L)**

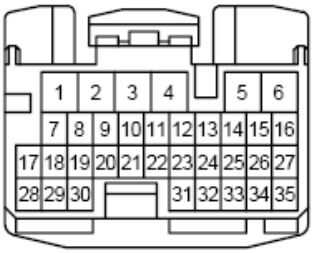
E1 (W/B)	**P (L/W)**	**D (L)**	**L (L/R)**	**N**

2AZ-FE , Camry 2002 , WISH

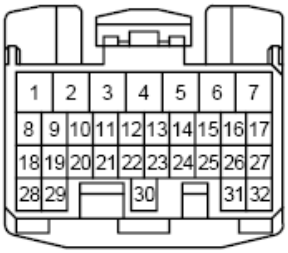
E 6



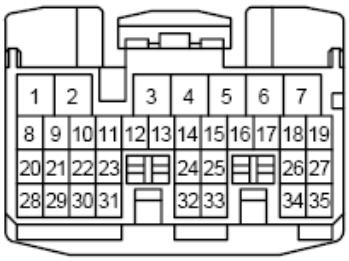
E 7



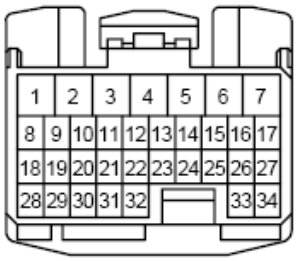
E 8



E 9



E10



E 6 (A) หน้า

1 - + B (B/R)
2 - +BM (L/R)
3 - BATT (B/Y)
4 - TBP (V) , VSV Pressure Switching Valve
5 - TACH (B/O)
6
7
8 - MREL (B/W)
9 - IG (B/O)
10 - FC (G/R)
11 - SIL (W)
12 - ELS (G)
13 - ELS2 (B/Y)
14 - TC (P/B)
15 - E0M (BR)
16
17
18 - W (G/R)
19 - WFSE (R)
20
21 - PTNK (P)
22 - VPA (L/Y)
23 - VPA2 (W/R)
24
25
26 - VCPA (R)
27 - VCP2 (B/R)
28 - EPA (LG/B)
29 - EPA2 (LG)
30
31

E 7 (B) หน้า

1- PRE (BR) , E2
2
3
4 - HT1B (L)
5
6
7 - ODLP (O) , O/D Off Lamp
8 - L (Y)
9 - 2 (L/W)
10 - D (W/L)
11 - R (R/B)
12
13
14 - THWO (Y/G) , Combination Meter
15 - CODE (G/W)
16 - IMLD (V)
17 - SPD (V/W)
18
19 - STP (G/W)
20 - ST1- (R/B)
21
22 - OX1B (B)
23
24
25
26 - TXCT (L/Y)
27 - RXCK (R/L)
28
29 - ODSW (G/O)
30
31 - A/CS (P/L) , A/C Control
32 - THR (Y/B) , A/C Control
33 - A/C1 (B) , A/C Control
34 - KSW (L)
35

E 8 (C)

1 - E1 (BR)
2 - ACMG (L/W)
3
4 - M- (W)
5 - M+ (B)
6 - E1 (W/B)
7 - E03 (BR)
8
9 - FAN Rel. (G/W)
10 - PSST (R/W)
11 - EVP1 (B/R)
12
13
14
15 - OC1- (Y)
16 - OC1+ (B/W)
17 - GE01 (B)
18
19
20
21
22
23 - LCK1 (W/L) , A/C Comp
24 -
25 -
26
27 -
28
29
30- PR2 (G/W) , Fan Rel.
31
32

E 9 (D)

1 - KNK1 (W)
2
3
4 - HAF1A (B/R)
5
6
7 - E1 (W/B)
8 - NSW (B/Y)
9 - STA (B/W)
10
11 - DSL (Y)
12
13 - S4 (L)
14
15
16 - SL2- (L/R)
17 - SL2+ (L/Y)
18 - SL1- (P)
19 - SL1+ (R/B)
20
21
22
23 - AF1A+ (B)
24 - VG (R)
25
26 - NC+ (R)
27 - NT+ (W/R)
28
29
30
31 - AF1A- (W)
32 - E2G (L/W)
33
34 - NC- (G)
35 - NT- (Y/R)

E 10 (E)

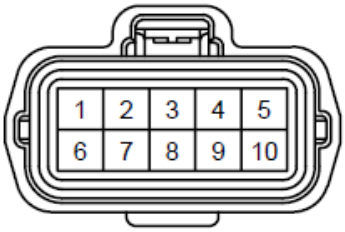
1 - #10 (L)
2 - #20 (R)
3 - #30 (Y)
4 - #40 (W)
5
6 - E02 (W/B)
7 - E01 (W/B)
8 - IGT1 (R/W)
9 - IGT2 (P)
10 - IGT3 (LG/B)
11 - IGT4 (L/Y)
12
13
14
15
16 - SLT- (Y/B)
17 - SLT+ (Y/R)

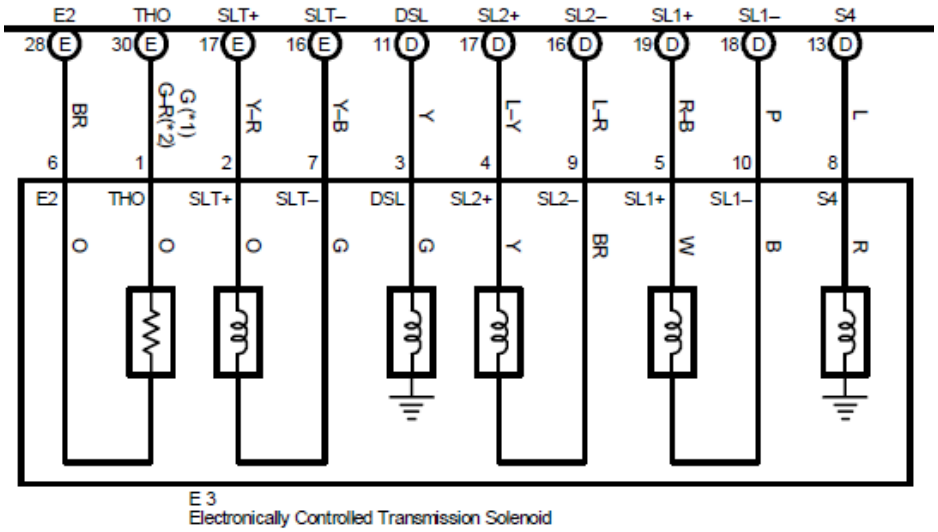
E 10 (E)

18 - VC (Y)
19 - THW (Y/G)
20 - THA (L/B)
21 - VTA (LG)
22 -
23 - IGF (W/R)
24 -
25
26 - G2+ (Y)
27 - NE+ (R)
28 - E2 (BR)
29 -
30 - THO (G)
31 - VTA2 (B/R)
32
33
34 - NE- (G)

A/T Solenoid 10 เส้น (2AZ-FE)

E 3
Gray

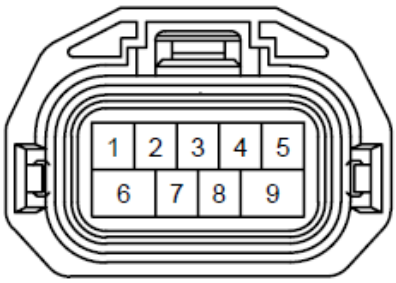




E 3
Electronically Controlled Transmission Solenoid

A/T Position Sw.

A 4
Gray

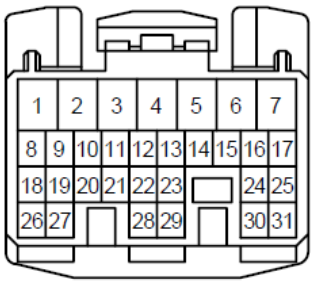


P (G/W)	**R (R/B)**	**IG (R/L)**	**2 (L/W)**	**N (R)**
STA (B/W)	**D (W/L)**	**L (Y)**	**NSW (B/Y)**	

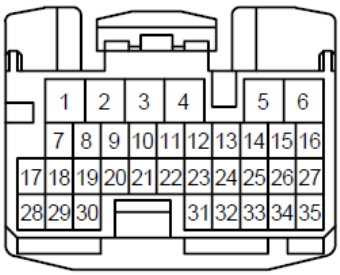
2AZ-FE , Camry 2005 (ACV30)

E 6(A), E 7(B), E 9(D), E10(E)
Engine Control Module

E 6



E 7



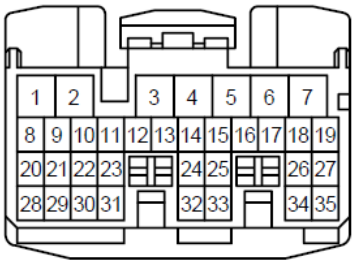
E6 (A)

1 - +B (B/R)
2 - +B (B/R)
3 - BATT (B/Y)
4 - IAC- (G/W) , Intake Air Control Valve
5 - CCV (L) , VSV Canister Close Valve
6 - IAC+ (G/B) , Intake Air Control Valve
7 - +BM (L/R)
8 - MREL (B/W)
9 - IGSW (B/O)
10
11
12 - STA (B/W)
13
14 - FANH (W/L)
15 - ELS1 (G)
16 - ST1- (R/B)
17
18 - VPA (L/Y)
19 - VPA2 (W/R)
20 - EPA (LG/B)
21 - EPA2 (LG)
22 - EC (W/B)
23
24 -
25 - FC (G/R)
26 - VCPA (R)
27 - VCP2 (B/R)
28
29 - EOM (BR)
30 - NSW (B/Y)
31 - PTNK (P) , Vapor Pressure Sen.

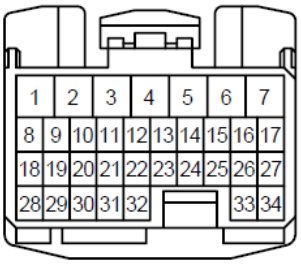
E7 (B)

1 - TACH (B/O)
2 -
3 - ELS3 (B/Y)
4 - STP (G/W)
5 - HT1C (L)
6 - ODMS (G/O)
7 - ODLP (O)
8 - SPD (V/W)
9 - L (L/B)
10 - 2 (Y)
11 - R (R/B)
12
13 - SIL (W)
14 - THWO (Y/G)
15 - IMO (L/B)
16 - IMI (R/L)
17 - TC (P/B)
18
19 - 3 (L/W)
20
21 - D (W/L)
22
23
24 - AC1 (Y/B)
25 - ACT (Y/R)
26
27 - OX1C (B)
28
29 -
30 - W (G/R)
31 -
32 - F/PS (L) , SRS System
33 - CAN H (R)
34 - CAN L (W)
35 - WFSE (R)

E 9



E10



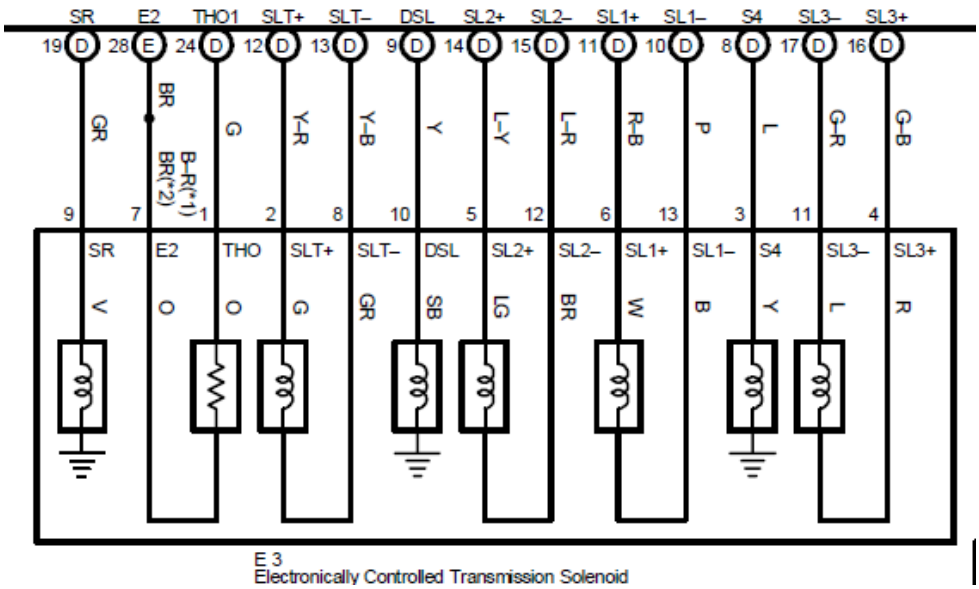
E9 (D)

1 - #40 (W)
2 - #30 (Y)
3 - ME01 (W/B)
4 - E03 (W/B)
5 - #20 (R)
6 - #10 (L)
7 - E04 (W/B)
8 - S4 (L)
9 - DSL (Y)
10 - SL1- (P)
11 - SL1+ (R/B)
12 - SLT+ (Y/R)
13 - SLT- (Y/B)
14 - SL2+ (L/Y)
15 - SL2- (L/R)
16 - SL3+ (G/B)
17 - SL3- (G/R)
18
19 - SR (GR)
20
21
22
23 - PRG (B/R) , VSV Evap
24 - THO1 (G)
25
26 - NC- (G)
27 - NT- (LG)
28 - VG (R)
29 - THA (L/B)
30 - E2G (L/W)
31 -
32 - PSST (R/W)
33
34 - NC+ (R)
35 - NT+ (L)

E10 (E)

1 - HA1A (B/R)
2 - HT1B (L)
3 - E1 (BR)
4 - M- (W)
5 - M+ (B)
6 - E02 (W/B)
7 - E01 (W/B)
8
9
10
11
12 - OC1- (Y)
13 - OC1+ (B/W)
14 - IGT4 (L/Y)
15 - IGT3 (LG/B)
16 - IGT2 (P)
17 - IGT1 (R/W)
18 - VC (Y)
19 - VTA2 (B/R)
20 - VTA1 (LG)
21 - A1A+ (O)
22 - IACA (G) , Intake Air Control Valve
23 - IGF1 (W/R)
24 -
25 - OX1B (BR)
26 - G2+ (L)
27 - NE+ (R)
28 - E2 (BR)
29 - KNK1 (W)
30 - EKNK (B)
31 - A1A- (W)
32 - THW (G/Y)
33
34 - NE- (G)

A/T Solenoid (2AZ-FE)

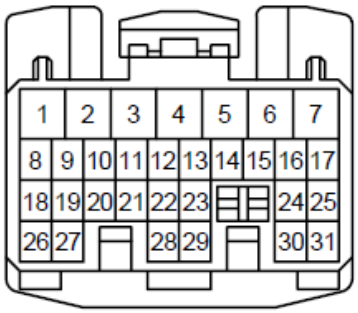


E 3
Electronically Controlled Transmission Solenoid

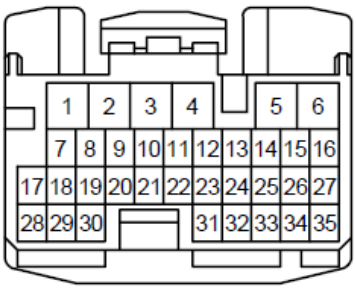
1AZ-FE , A/T + - (Avensis 2003)

E 9(A), E10(B), E12(C), E13(D)
Engine and ECT ECU (A/T)
Engine ECU (M/T)

E 9



E10

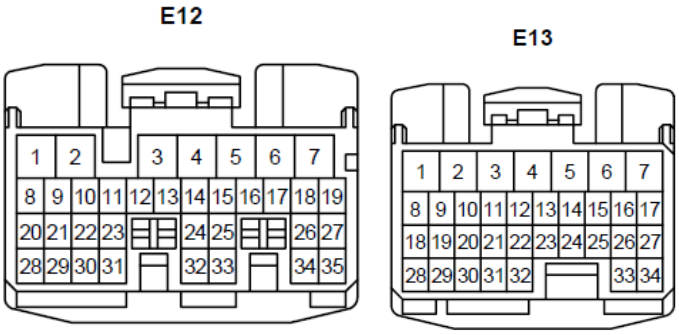


E9 (A)

1 - +B (B/R)
2 -
3 - BATT (B/Y)
4 -
5 - TACH (GR/R)
6 -
7 - FAN (W)
8 - MREL (GR)
9 - IGSW (B/W)
10 - FC (G/Y)
11 - W (W)
12 - ELS (G)
13 -
14 - F/PS (LG/B) , SRS System
15 - EOM (BR)
16
17 -
18 - SIL (W/G)
19 - WFSE (G)
20 - TC (W/L)
21 - SFTD (B)
22 - SFTU (R)
23 - MPX1 (P)
24 -
25 -
26 -
27 - KD (W)
28 -
29 - MPX2 (P/B)
30 -
31 -

E10 (B)

1 -
2 -
3 - HT2B (L/R)
4 - HT1B (L)
5 -
6 -
7 -
8 -
9 -
10 - D (LG/B)
11 - R (R/Y)
12 -
13 -
14 -
15 -
16
17 - SPD (V/W)
18 -
19 - STP (G/W)
20 - SPT1 (L) , Transmission Control Sw.
21 - P (W/L)
22 - N (R)
23 -
24 -
25 -
26 - IMO (W)
27 - IMI (GR)
28 - RL (Y) , Alternator
29 -
30 -
31 -
32
33
34
35 -



E12(C)

1 - KNK1 (B)
2 - EKNK (W)
3 - E05 (W/B)
4 - E04 (W/B)
5 - HA2A (Y)
6 - HA1A (L)
7 - E1 (BR)
8 -
9 - STA (B/Y)
10 - RSD (G/R)
11 - DSL (L/B)
12 -
13 - S4 (L)
14 -
15 -
16 - SL2- (R/B)
17 - SL2+ (R)
18 - SL1- (Y/B)
19 - SL1+ (Y)
20 -
21 - OX1B (B)
22 - A2A+ (G)
23 - A1A+ (W)
24 - VG (G)
25 -
26 - NC+ (LG)
27 - NT+ (B/O)
28 -
29 - OX2B (R)
30 - A2A- (L)
31 - A1A- (B)
32 - EVG (L/Y)
33
34 - NC- (LG/B)
35 - NT- (B)

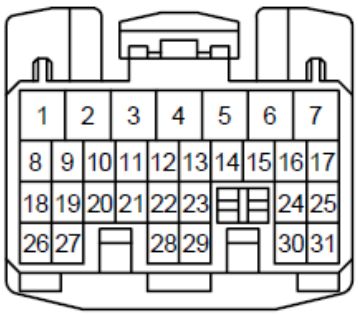
E13 (D)

1 - #10 (B/R)
2 - #20 (Y)
3 - #30 (W)
4 - #40 (B)
5 -
6 - E02 (W/B)
7 - E01 (W/B)
8 - IGT1 (R/W)
9 - IGT2 (P)
10 - IGT3 (LG/B)
11 - IGT4 (L/Y)
12 - PRG (W/G)
13 - IGF1 (W/R)
14 - OC1- (Y/B)
15 - OC1+ (W/G)
16 - SLT- (P)
17 - SLT+ (P/L)
18 - VC (R/W)
19 - THW (B/W)
20 - THA (G/R)
21 - VTA1 (L/W)
22 -
23 - PSST (G)
24 -
25 -
26 - G2+ (W)
27 - NE+ (G)
28 - E2 (BR)
29 -
30 - THO (V)
31 - OX2B- (G)
32 - OX1B- (B)
33
34 - NE- (R)

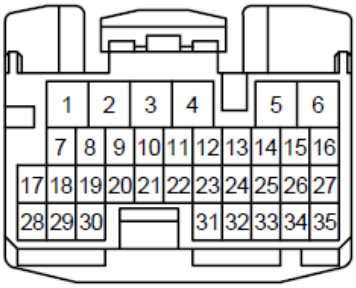
1AZ-FSE , Avensis 2003

E 9(A), E10(B), E11(C), E12(D), E13(E)
Engine and ECT ECU (A/T)
Engine ECU (M/T)

E 9

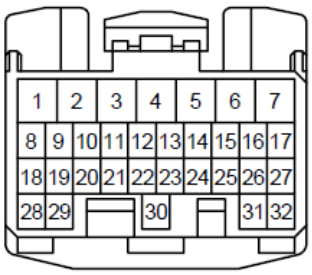


E10

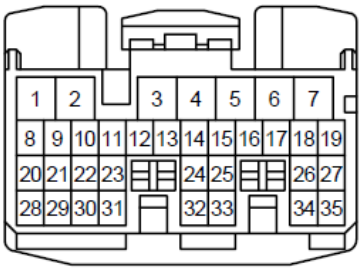


E9 (A)		E10 (B)	
1	+B (B/R)	1	
2	+B (B/R)	2	
3	BATT (B/Y)	3	
4	FAN (W)	4	
5	TACH (GR/R)	5	
6	P (W/L)	6	+BM (G/Y)
7	N (R)	7	
8	MREL (GR)	8	
9	IGSW (B/W)	9	
10	FC (G/Y)	10	D (LG/B)
11	W (W)	11	R (R/Y)
12	ELS (G)	12	ST1- (G/W)
13		13	
14	F/PS (LG/B) , SRS system	14	
15	EOM (BR)	15	
16		16	
17	NEO (Y/B)	17	SPD (V)
18	SIL (W/G)	18	MPX1 (P)
19	WFSE (G)	19	STP (G/W)
20	TC (W/L)	20	SPT1 (L) , Transmission Control Sw.
21		21	SFTD (B)
22	VPA (G)	22	SFTU (R)
23	VPA2 (B)	23	
24	ENG+ (W)	24	
25	TRC+ (G)	25	
26	VCPA (B)	26	IMO (W)
27	VCP2 (B)	27	IMI (GR)
28	EPA (Y)	28	
29	EPA2 (Y)	29	MPX2 (P/B)
30	ENG- (B)	30	KD (W) , Kick Down Sw.
31	TRC- (L)	31	
		32	
		33	
		34	
		35	IREL (V)

E11

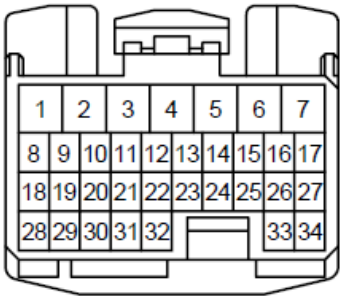


E12



E11 (C)	E12 (D)
1 - E1 (BR)	1 - KNK1 (B)
2 - M- (W)	2 - EKNK (W)
3 - M+ (B)	3 - FP- , Spill Valve (G)
4 - ME01 (W/B)	4 - HT2A (L)
5 -	5 - HT1A (Y)
6 -	6 - FP+ , Spill Valve (R)
7 - E03 (W/B)	7 -
8 -	8 -
9 -	9 -
10 - PSW (G)	10 - S4 (L)
11 -	11 - DSL (L/B)
12 -	12 - SLT- (P)
13 -	13 - SLT+ (P/L)
14 -	14 -
15 - OC1- (Y/B)	15 -
16 - OC1+ (W/G)	16 - SL2- (R/B)
17 - GE01	17 - SL2+ (R)
18 -	18 - SL1- (Y/B)
19 -	19 - SL1+ (Y)
20 -	20 -
21 - RL (Y) , Alternator	21 - OX1B (B)
22 -	22 - OX1A (B)
23 -	23 - OX2A (R)
24 - NE- (R)	24 -
25 - NE+ (G)	25 - HT1B (P)
26 - OX1B- (W)	26 - NC+ (LG)
27 - G2+ (W)	27 - NT+ (B/O)
28 -	28 -
29 -	29 - OX2B (R)
30 -	30 -
31 - OX2B- (G)	31 -
32	32 - THO (V)
	33 - HT2B (L/B)
	34 - NC- (LG/B)
	35 - NT- (B)

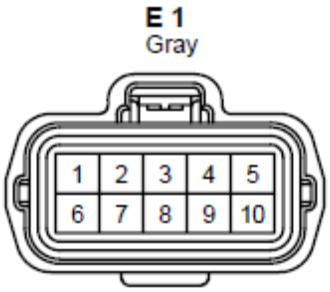
E13

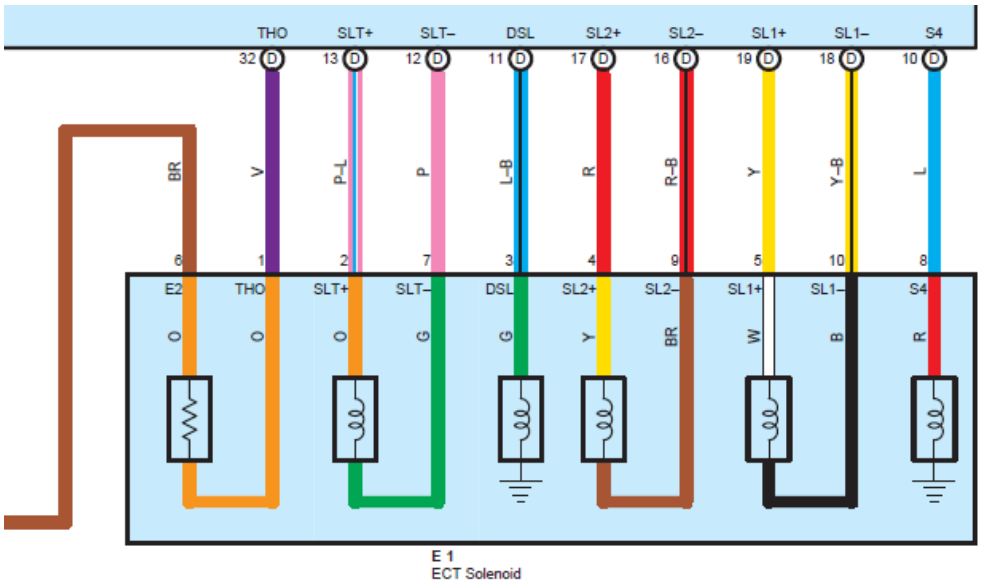


E13 (E)

1 - #1 (G/W)
2 - #2 (W/R)
3 - #3 (R/W)
4 - #4 (W/L)
5 - SCV (L/B) , Intake Air Control Valve
6 - E02 (W/B)
7 - E01 (W/B)
8 - IGT1 (R/W)
9 - IGT2 (P)
10 - IGT3 (LG/B)
11 - IGT4 (L/Y)
12 -
13 -
14 -
15 -
16
17 - STA (B/Y)
18 - VC (R/W)
19 - THW (B/W)
20 - THA (GR)
21 - VTA1 (L/W)
22 -
23 - PR (Y/G) , Fuel Pressure Sen.
24 - IGF1 (W/R)
25 - IJF1 (R/B)
26 - PB (Y) , Brake Booster Pressure Sen.
27 -
28 - E2 (BR)
29 - EVG (G)
30 - VG (L/Y)
31 - VTA2 (B/R)
32
33 - PIM (G/W)
34 - EVP1 (W/G)

A/T Solenoid (1AZ-FSE)



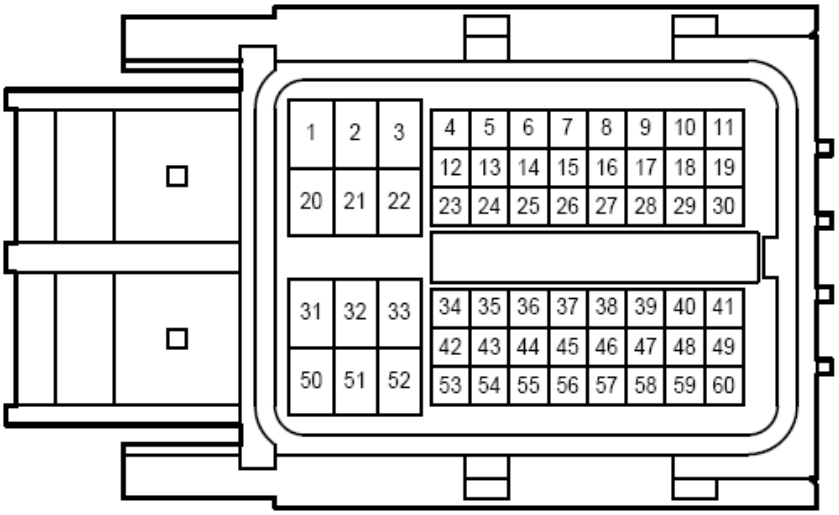


Camry2007 (2AZ-FE , 1AZ-FE)

A

A 24

Black

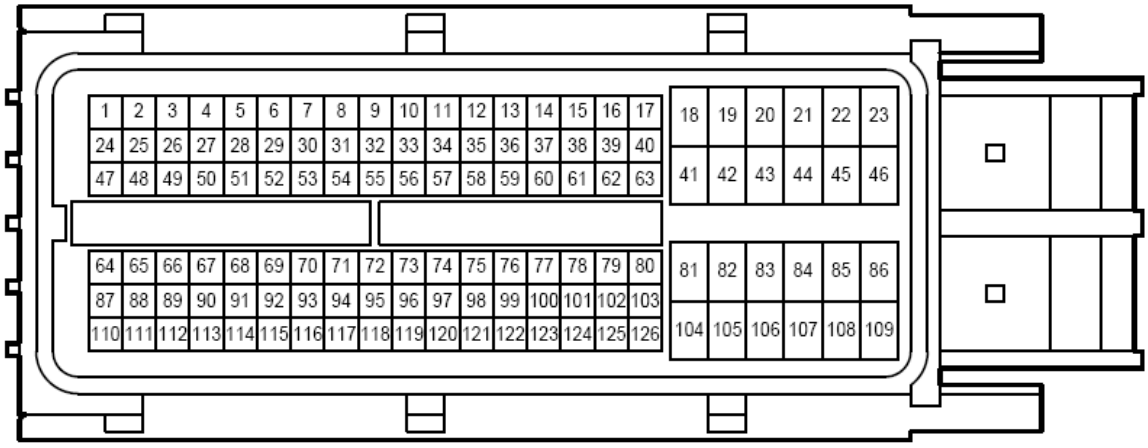


1 - +B2 (R)	31
2 - +B (R)	32 - EC (W-B)
3 - +BM (LG)	33
4	34
5	35 - ST1- (GR)
6	36 - STP (W)
7 - FC (Y)	37
8 - SPD (V)	38
9 - EOM (W)	39
10 - IMA (O)	40 - CCS (W)
11 - IMI (Y)	41 - CANH (
12	42
13 - ACCR (B)	43
14 - STSW (R)	44 - MREL (O)
15 - TACH (B)	45
16	46
17	47
18	48 - STA (V)
19	49 - CANL
20 - BATT (Y)	50
21 - FANL (R)	51
22 - FANH (W)	52
23	53 - PSW (BR)
24	54
25	55 - VPA (G)
26	56 - VPA2 (R)
27 - TC (P)	57 - VCPA (B)
28 - IGSW (Y)	58 - VCP2 (L)
29	59 - EPA (Y)
30	60 - EPA2 (O)

B

C 24

Black

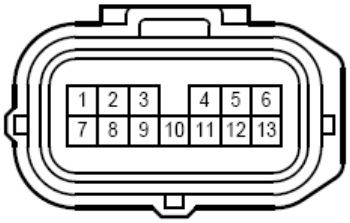


1	64 - OX1B (W)
2	65 - THA (P)
3	66
4	67 - VCTA (B)
5	68
6	69
7	70
8	71
9	72 - THO1 (Y)
10	73 - P (GR)
11	74 - L (BR)
12	75 - SLT- (W)
13	76 - SLT+ (L)
14	77 - SL1- (LG)
15	78 - S4 (GR)
16	79 - DSL (BR)
17	80 - SR (G)
18	81 - IGF1 (BR)
19	82 - IGT4 (LG)
20	83 - IGT3 (G)
21	84 - IGT2 (G-R)
22	85 - IGT1 (W)
23	86 - E03 (B)
24	87 - EX1B (BR)
25	88 - ETHA (Y)
26	89
27	90
28	91 - ETA (P)
29	92
30	93
31	94
32	95 - ETHO (BR)
33	96 - ETHW (P)
34	97 - THW (B)
35	98 - G2- (BR)
36	99 - G2+ (Y)
37	100 - OC1+ (W)
38	101 - NC+ (LG)
39	102 - NC- (P)
40	103
41 - M- (R)	104 - E1 (W-B)
42 - M+ (G)	105 - #40 (L)
43 - ME01 (B)	106 - #30 (Y)
44 - E02 (B-W)	107 - #20 (R)
45	108 - #10 (B)

46	-	E04 (W)	109	-	HA1A (G)
47	-	HT1B (LG)	110	-	KNK1 (G)
48			111	-	EKNK (R)
49	-	PRG (O)	112	-	A1A+ (L)
50	-	ALT (L)	113	-	A1A- (P)
51			114	-	VTA2 (W-L)
52	-	NSW (SB)	115	-	VTA1 (Y)
53	-	R (P)	116	-	E2G (W)
54	-	N (SB)	117		
55	-	2 (R)	118	-	VG (SB)
56	-	D (G)	119		
57	-	SL1+ (L)	120		
58	-	SL2+ (G)	121	-	NE- (R)
59	-	SL2- (R)	122	-	NE+ (G)
60	-	SL3+ (O)	123	-	OC1- (B)
61	-	SL3- (Y)	124	-	NT- (W)
62			125	-	NT+ (G)
63	-	GE01 (G-R)	126		

A/T Solenoid (2AZ-FE)

C 25
Gray



THO1	SLT+	S4		SL3+	SL2+	SL1+
ETHO	SLT-	SR	DSL	SL3-	SL2-	SL1-

A/T Solenoid (1AZ-FE)

C 61
Gray

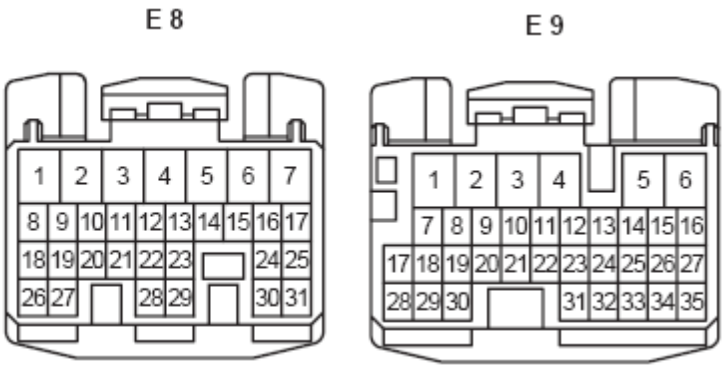


THO1	SLT+	DSL	SL2+	SL1+
ETHO	SLT-	S4	SL2-	SL1-

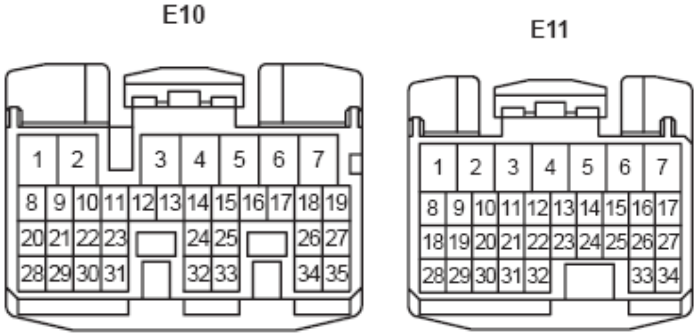
2TR-FE(FORTUNER– VIGO) , 1TR-FE(INNOVA)

หน้าปลั๊ก

E 11 (D) E 10 (C) E 9 (B) E 8 (A)



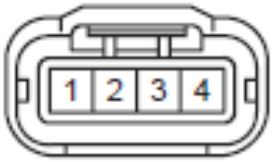
E 8 (A)	E 9 (B)
1 - + B (B) 2 3 - BATT (L) 4 5 6 7 - +BM (R/W) 8 - MREL (W/G) , + 9 - IG (B/O) 10 11 12 - STA (B/Y) 13 14 15 - ELS (G) 16 - ST1- (R/L) Normally close 17 18 - VPA (W/L) 19 - VPA2 (GR/G) 20 - EPA (BR/W) 21 - EPA2 (BR/Y) 22 - EC (R) 23 24 25 - FC (LG/ B) 26 - VCPA (LG/R) 27 - VCP2 (BR/R) 28 29 - E0M (W/B) 30 - NSW (L/Y) 31	1 - TACH (B/W) 2 3 - ELS3 (B) 4 - STP (G/W) 5 6 7 8 - SPD (V/R) 9 - L (G/R) 10 - 2 (L) 11 - R (R/Y) 12 13 - SIL (R/Y) 14 - THWO (P) 15 - IMO (Y/B) 16 - IMI (Y/G) 17 - TC (P/B) 18 19 - 3 (G/O) 20 21 22 23 24 - AC1 (Y) 25 - ACT (R/L) 26 27 28 29 - OILW (P) A/T oil temp lamp 30 - W (R/B) 31 32 - F/PS (B) , SRS System 33 34 35 - WFSE (W)



E 10 (C)	E 11 (D)
1 - # 40 (W) 2 - # 30 (R) 3 - ME01 (W/B) 4 - E03 (W/B) 5 - # 20 (G) 6 - # 10 (L) 7 - E04 (W/B) 8 - S2 (B/R) 9 - S1 (B/W) 10 11 - SL (L/Y) 12 - SLT+ (B/L) 13 - SLT- (B/Y) 14 15 16 17 18 19 20 - AIDI (G/W) air injection control driver 21 22 23 - PRG (L) 24 25 26 - NCO- (P) 27 - SP2- (R) 28 - VG (L/W) 29 - THA (L/B) 30 - E2G (L/R) 31 32 - PSW (G/Y) 33 34 - NCO+ (V) 35 - SP2+ (G)	1 - HA1A (Y) 2 - HT1B (L/Y) 3 - E1 (BR) 4 - M- (W) 5 - M+ (B) 6 - E02 (W/B) 7 - E01 (W/B) 8 - GE01 (BR) 9 10 - ALT (G) 11 - AIRP (W/L)air injection control driver 12 - OC1- (Y) 13 - OC1+ (P/L) 14 - IGT4 (G) 15 - IGT3 (G/B) 16 - IGT2 (R/L) 17 - IGT1 (R) 18 - VC (LG/B) 19 - VTA2 (LG) 20 - VTA1 (B/R) 21 - A1A+ (B) 22 - THOC (W/L) A/T fluid temp sen. 23 - IGF1 (G/R) 24 - AIRD (V) , air injection control driver 25 - OX1B (B) 26 - G2 (R) 27 - NE+ (L) 28 - E2 (BR) 29 - KNK1 (B) 30 - EKNK (W) 31 - A1A- (W) 32 - THW (B) 33 34 - NE- (G)

Direct Coil

I 1
Black



IG	IGF	IGT	E1

Air Flow Sensor

A 4
Black



+B	E2G	VG	THA	E2

Throttle Body Control

T 1
Black



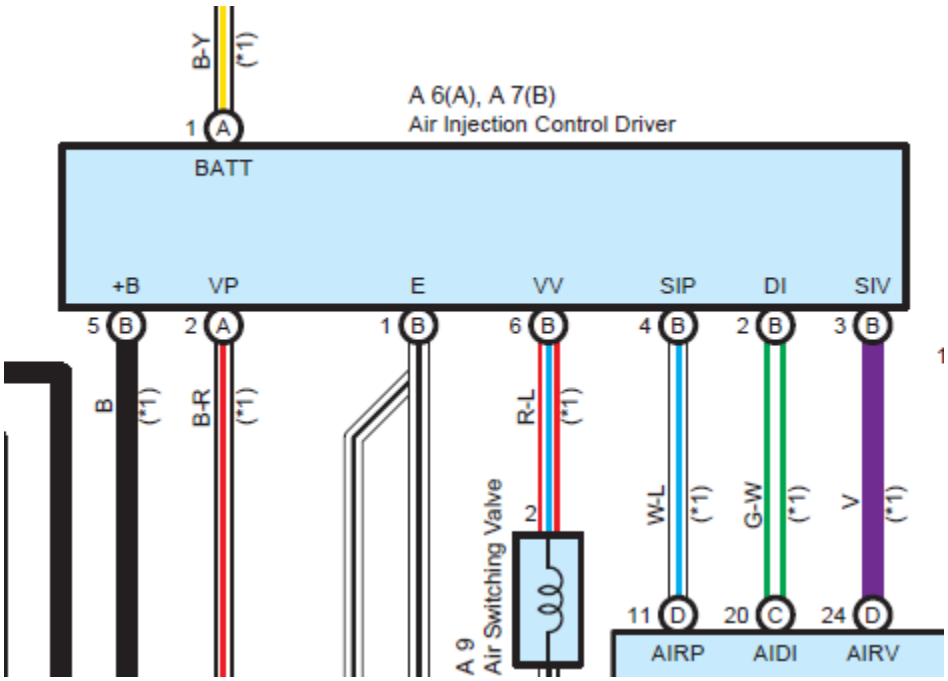
M-	M+	E2	VTA2	VC	VTA1

Acceleration Position Sensor



VCP2	EPA2	VPA2	VCPA	EPA	VPA

Air Injection Control Driver



A/T Solenoid

E 1
(2TR–FE)

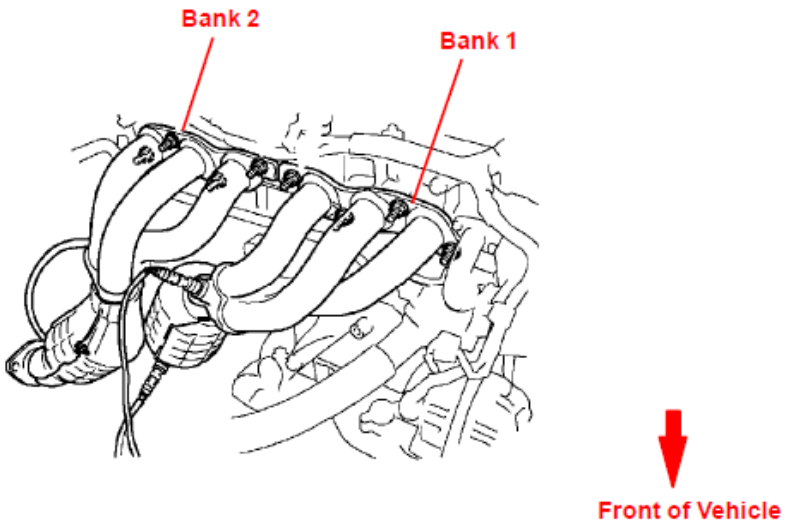


	SLT+		**S1**
	SLT-	**SL**	**S2**

JZ Engine

TOYOTA

Engine Bank Identification:
2JZ–GE



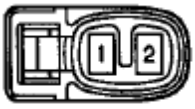
Distributor



NE (B)	G1 (R)	G2 (W)	G- (G)

Ignitor + Coil

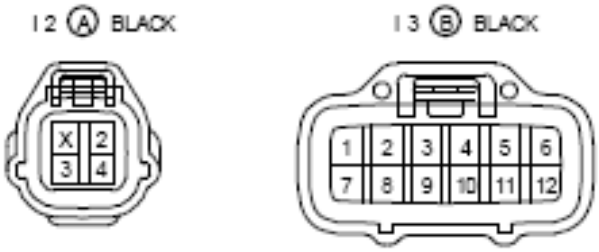




IGF	IGT	IG	IG-	-Coil

+	-

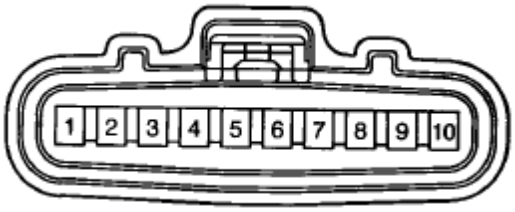
Ignitor Direct Coil



*	+B
IGF	E1

IGT1	IGT2	IGT3	C3	C2	C1
IGT6	IGT5	IGT4	C4	C5	C6

Ignitor Dual Coil



C1	C2	E1	IGF	IGT3	IGT2	IGT1	IG-	IG	C1

Throttle Sensor



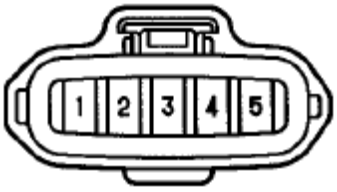
VC	VTA	IDL	E2

MAP Sensor



E2	PIM	VC

Air Flow Sensor 12 V. (2JZ-GTE)



+B	VG	THA	E2	E2

Air Flow Sensor 12 V. (2JZ-VVT)



THA	E2	EVG	+B	VG

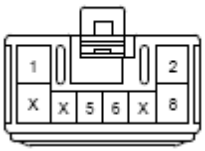
Air Flow Sensor 5 V.



E2	THA	KS	VC	E2

Fuel Pump Control ECU

F15 BLACK

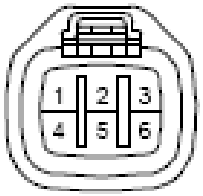


+B					FP
*	*	FPC	DI	*	E1

E1	DI	FPC	+ B	FP

Idle Speed Control

I 1 BLACK



ISC2	+B	ISC4
ISC1	+B	ISC3

Oxygen Sensor

D28
Dark Gray



HT1B	+B
OX1B	E2

A/F Sensor

D28
Dark Gray

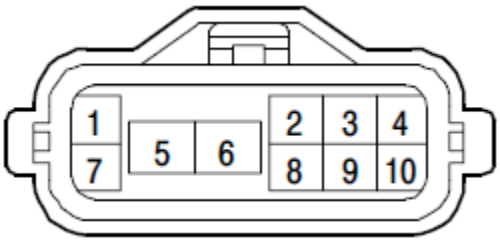


HA1A	+B
A1A+	A1A-

Cooling Fan ECU (89257-14010)

IG (B/Y)	SOL+ (L/Y)			SOL- (B)	E1 (W/B)
IDL (R)	IG- (B)	A/C (R/GR)	HP (L/R)	TH+ (P/L)	TH- (W)

Neutral Position Switch



*	STA (B)	NSW (B/W)	2 (LG/R)	L (G/B)	IG (Y)
P (GR)			R (R/B)	D (G/R)	N (L)

A/T Solenoid (3 เส้น)

E 2 BLACK



S1 - 1 (W) , S2 - 2 (B) , S3 - 3 (Y)

A/T Solenoid (8 เส้น) ปลั๊กหนา

E 2 GRAY



OIL	+B	+B	S1
E2	SLN-	SLU-	S2

A/T Solenoid (8 เส้น) หน้า , ปลั๊กนัตขัน

E 2 GRAY



SLT+ (W/G)	+B (B/R)	+B (B/R)	S1 (W/R)
SLT- (LG/R)	SLN- (Y/G)	SLU- (LG/B)	S2 (R/L)

A/T Solenoid 6 เส้น (หลังปลั๊ก)



S1 (L/Y)	SLU+ (G/W)	OIL (G/R)
S2 (G/Y)	SLU- (L/R)	E2 (BR)

A/T Solenoid (A340E) 6 เส้น



+ B	+ B	S1
SLN-	SLU-	S2

PPS ECU



SOL+			SOL-
*	+B	SPD	E1

1 JZ – GE , A/T ฝาขาว
ปลั๊กเทาบาง , JZS141 (89661 – 22380)

26 P

E01 (W/B)	#10 (R/L)	#20 (R/G)	S1	S2	SL	ISC1 (Y)	ISC2 (Y/R)	ISC3 (Y/G)	ISC4 (Y/B)	L	2	*
E02 (W/B)	#30 (R/Y)	E1 (BR)	IGT (W)	TR	NEO	IDL2	VTA2	VTO1	IGF (GR)	VTO2	VF (G/R)	FC (G/R)

16 P

TT	TE1 (L/W)	KNK1 (W)	OX	THW (R/L)	THA (R)	PIM (L)	VC (L/R)
SP2+ (R)	TE2 (L/R)	KNK2 (GR)	SP2- (G)	*	IDL1 (LG)	VTA1 (Y)	E2 (BR)

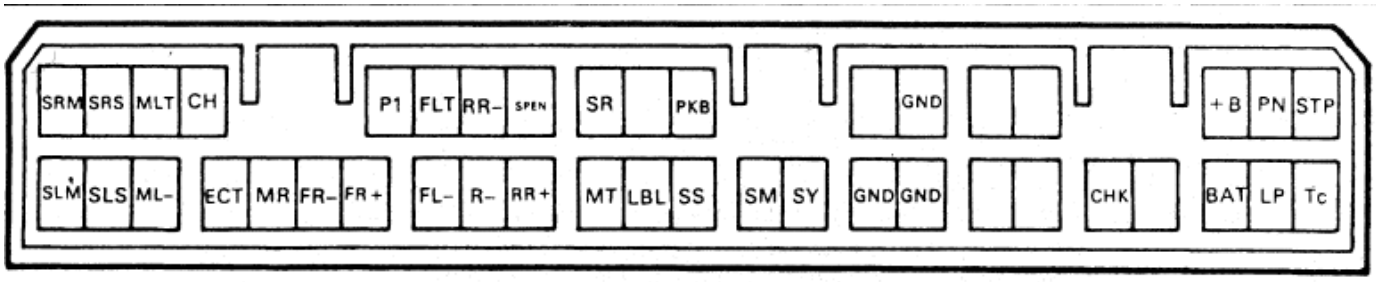
12 P

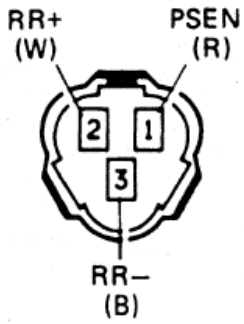
*	G- (G)	*	ACV	SP2O	SP2
NE (B)	G1 (R)	G2 (W)	EVP	CCO	EGW

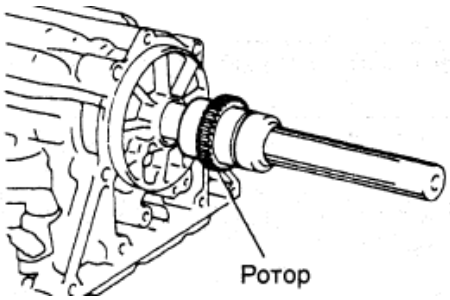
22 P

STA (B/W)	*	OD2	SP1 (V/W)	A/C (R)	ACMG (B/W)	ELS	W (B/Y)	MREL (G/O)	BATT (W/R)	+B (B/R)
NSW (B/L)	*	P	M	ECT	L1	L2	L3	STP (G/W)	IGSW (B/O)	+B (B/R)

ABS (ESC) 5 เหลี่ยม (89540-30140)







SP2 ชนิด 3 สาย

PSEN (LG)	
RR- (G)	RR+ (R)

RR + , RR - , PSEN ต่อเข้า ABS ECU
ECT ของ ABS ECU ต่อเข้า SP 1

1 JZ – GE , A/T ฝาดำ

JZX81 (89661–22380) ,SP2 แบบ 2 สาย

JZS141 (89661–30830) ไม่มี SP2 ใช้ SPD แทน

26 P

E01	# 10	# 20	S1	S2	S3	ISC1	ISC2	ISC3	ISC4	L	2	HT
E02	# 30	E1	IGT	TR	NEO	IDL2	VTA2	VTO1	IGF	VTO2	VF	FC

16 P

TT	TE1	KNK1	OX	THW	THA	PIM	VC
SP2+	TE2	KNK2	SP2-	*	IDL1	VTA1	E2

12 P

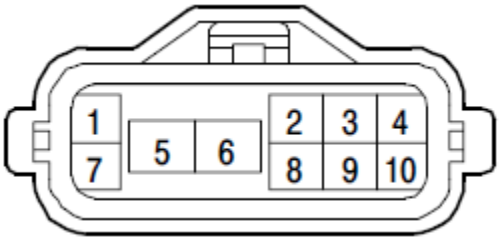
*	G-	*	ACV	SP2O	SP2
NE	G1	G2	EVP	CCO	EGW

22 P

	*	OD2	SP1	A/C	ACMG	ELS	W	MREL	BATT	+ B
NSW	*	P	M	ECT	-	-	-	STP	IGSW	+B1

TEMP - Y/R	SPD + - Y	IG - R/B	D - G/Y
OIL - Y/L	SPD - - B/W	P - G/W	2 - V
A/C - G	+ B - R/B	R - R/L	L - G/B
		N - G/R	

Neutral Position Switch



*	STA (B)	NSW (B/W)	2 (LG/R)	L (G/B)	IG (Y)
P (GR)			R (R/B)	D (G/R)	N (L)

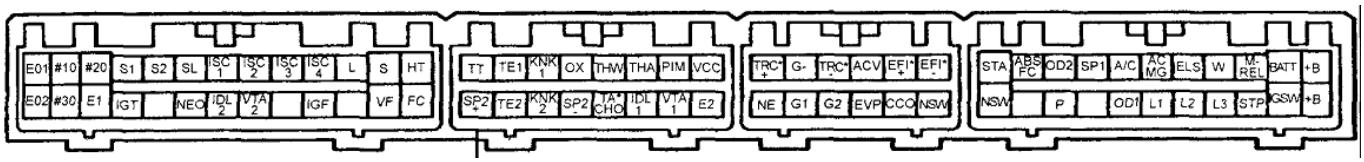
A/T Solenoid (3 เส้น)

E 2 BLACK



1 JZ – GE , A/T - 1994

JZX90 (89661-22670) ฝาดำ ไม่มี SP2 ใช้ SP1from combination



26 P

E01	# 10	# 20	S1	S2	S3	ISC1	ISC2	ISC3	ISC4	L	2	HT
E02	# 30	E1	IGT	-	NEO	IDL2	VTA2	-	IGF	-	VF	FC

16 P

TT	TE1	KNK1	OX	THW	THA	PIM	VC
	TE2	KNK2		TACH	IDL1	VTA1	E2

12 P

TRC+	G-	TRC-	ACIS	EFI+	EFI-
NE	G1	G2	EVP	CCO	EGW

22 P

STA	ABS FC	OD2	SP1	A/C	ACMG	ELS	W	MREL	BATT	
NSW	SNOW 1	P	SNOW	OD1	-	-	-	STP	IGSW	+B1

1 JZ – GE , 1996

JZS151 (89661–3A050) ป้ายน้ำเงิน , เกียร์ VVT – SPDM in box

26 P

E01 (W/B)	# 10 (Y)	# 20 (B/R)	S1 (L/Y)	S2 (G/Y)	SL (W/G)	ISC1 (P/L)	ISC2 (W/L)	ISC3 (Y/R)	ISC4 (LG/B)	L (G/B)	2 (G/Y)	HT (G/B)
E02 (W/B)	# 30	E1 (BR)	IGT (B/R)		NEO (G/R)	IDL2 (G/B)	VTA2 (L/Y)	VTO1	IGF (Y/G)	(3)	VF	FC (V/Y)

16 P

TT (LG/B)	TE1 (R/W)	KNK1	OX (W)	THW (R/L)	THA (Y/B)	PIM (G/W)	VC (L/Y)
SP2+ (L/Y)	TE2	KNK2	SP2- (R/L)	TACH	IDL1 (R/B)	VTA1 (Y/G)	E2 (BR)

12 P

TRA (GR/G)	G- (G)		ACIS (P/B)	EFI+ (P)	EFI- (L)
NE (R)	G1 (B)	G2 (W)	EVAP (P/L)	CCO (Y/B)	EGW (V/G)

22 P

STA (B)	SPDM (V)	OD2 (O)	-	A/C (B/W)	ACMG (W/G)	ELS1 (LG)	W (L/B)	MREL (G/O)	BATT (B/Y)	ELS2 (L/R)
NSW (B/W)	SNWI (R/Y)	PWR (L/W)	SNWO (GR/R)	OD1 (LG/R)	THWO (GR/L)	EC (W/B)	-	STP (G/W)	IGSW (B/L)	+B (B/R)

1JZ – GTE , A/T 3 สาย , Direct Coil , Supra (JZA70)

26 P

E01 (W/B)	# 10 (W/L)	# 20 (W/R)	S1 (G/B)	S2 (G/Y)	S3 (R/B)	ISC1 (W/Y)	ISC2 (G/W)	ISC3 (L/R)	ISC4 (R/B)	L (L)	S (LG/R)	HT (R/L)
E02 (W/B)	# 30 (W)	E1 (BR)	IGT1 (R/W)	IGT2 (R/G)	IGT3 (R/B)	IGT4 (R/Y)	IGT5 (R)	IGT6 (Y)	IGF (R/L)	FP (Y)	VF (GR)	FC (G)

16 P

TT (Y/B)	TE1 (R/G)	KNK1 (W)	OX (W)	THW (G)	THA (LG)	PIM (LG/B)	VC (L/B)
SP2+	TE2 (L)	KNK2 (W)	SP2-	*	IDL1 (Y/L)	VTA1 (W/R)	E2 (BR)

12 P

NE- (W)	G1- (W)	G2- (W/L)	EVP (W)	TPC	SP2
NE+ (O)	G1 (O)	G2 (O/L)		CCO (G/B)	EGW (Y/L)

22 P

STA (B/L)	TIL (R/Y)	OD2 (GR)	SPD (P)	A/C (L/R)	ACMG (BR)	ELS (R/Y)	W (GR/G)	MREL (B/O)	BATT (B/Y)	+B (B/R)
NSW (B/W)	*	P (G/O)	M (O)	ECT	L1	L2	L3	STP (G/W)	IGSW (GR)	+B1 (B/R)

P - R R - R/B N - W D - V 2 - LG/R L - L	IG #10 - B

1JZ – GTE , A/T , Direct Coil
JZX81 - Chaser (89661-22400)

26 P

E01	# 10 (Y)	# 20 (Y)	S1	S2	S3	ISC1 (G/W)	ISC2 (G/R)	ISC3 (O)	ISC4 (L)	L	S	HT (R)
E02	# 30 (R)	E1	IGT1 (B/W)	IGT2 (R/G)	IGT3 (P/B)	IGT4 (R/B)	IGT5 (P/L)	IGT6 (R/W)	IGF (Y/G)	FPR (G/R)	VF (GR)	FC (G)

16 P

TT (L)	TE1 (P)	KNK1 (W)	OX (W)	THW (R/L)	THA (R)	PIM (Y/R)	VC (W)
SP2+	TE2 (P/L)	KNK2 (W)	SP2-	*	IDL1 (LG)	VTA1 (Y)	E2 (BR)

12 P

NE- (W)	G1- (W)	G2- (W)	EVP (BR)	TPC	SP2
NE+ (O)	G1 (O)	G2 (O)	SP2O	CCO	EGW

22 P

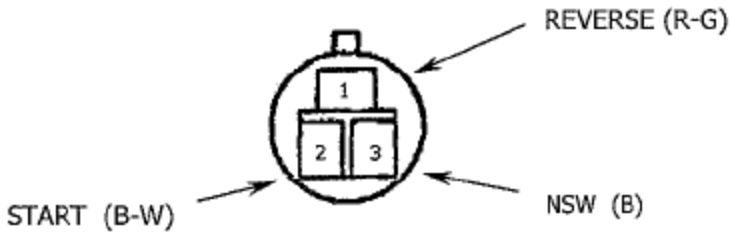
STA (B)	TIL (R/Y)	OD2	SP1 (LG/R)	A/C (L)	ACMG (L/Y)	ELS (V)	W (Y/R)	MREL (GR)	BATT (B/Y)	+B (B/R)
NSW (B/W)	*	P	M	ECT	L1	L2	L3	STP (G/W)	IGSW (B)	+B1 (B/R)

ปลั๊กข้างกล่องเครื่อง

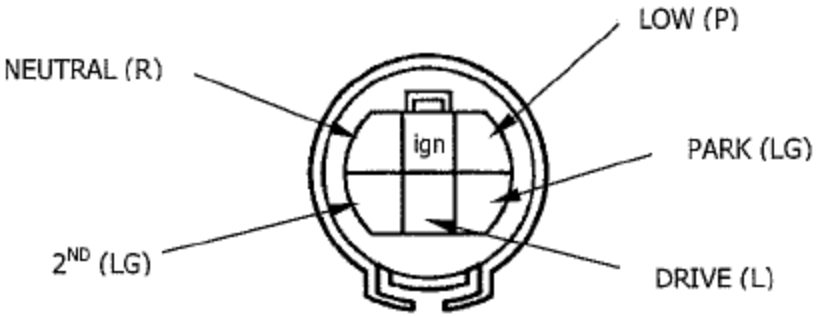
TR			VTO1	NCO-
NEO	IDL2	VTA2	VTO2	NCO +

A/T Plug

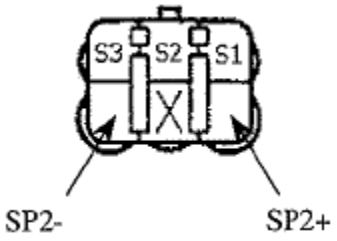
Auto Transmission Plugs



NEUTRAL START PLUG



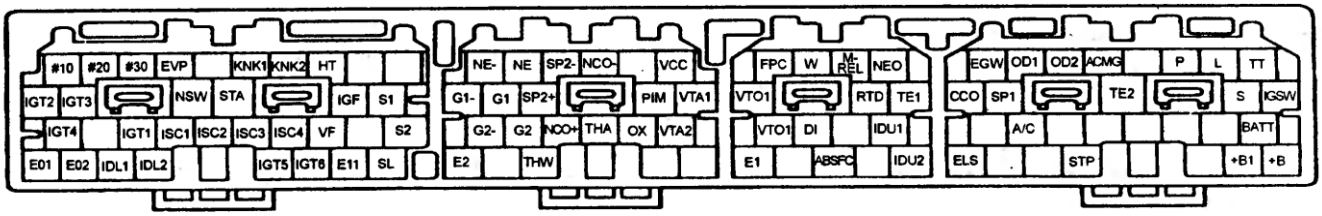
A/T INDICATOR PLUG



S3 = Solenoid 3
S2 = Solenoid 2
S1 = Solenoid 1
SP2+ & SP2- not used for the JZX81

1 JZ – GTE , Soarer JZZ30-JZX90 (89661-22610) ปี 96

Direct Coil , ปลั๊กหนา , ฝาดำเรียบ , เทอร์โบคู่ , A/T 3 เส้น



34 P , D (หลังปลั๊ก)

#10 (Y)	#20 (B/Y)	#30 (B)	EVAP (GR/B)	*	KNK1	KNK2	HT	*	*
IGT2 (R/L)	IGT3 (L/B)			NSW (B/W)	STA (B)			IGF (R/Y)	S1 (LG)
IGT4 (L/W)	*	IGT1 (R/W)	ISC1 (P/R)	ISC2 (LG/B)	ISC3 (GR/Y)	ISC4 (L/W)	VF (LG)	*	S2 (W/R)
E01 (W/B)	E02 (W/B)	IDL1 (BR)	IDL2 (R/B)			IGT5 (R/GR)	IGT6 (R/B)	E11 (BR)	SL (G/Y)

22 P , C

NE- (L/Y)	NE+ (L/GR)	SP2- (R/Y)	NCO- (GR)	*	VC (L/R)
G1- (O)	G1 (W)	SP2+ (L/Y)		PIM (LG/B)	VTA1 (Y)
G2- (W/L)	G2 (O/L)	NCO+ (R)	THA (Y/B)	OX (W)	VTA2 (Y/L)
E2 (BR)	*	THW (GR)		*	*

16 P , A

FPC (R/GR)	W (L/Y)	MREL (B/O)	NEO	
VTO1			TRC (Y/R)	TE1 (LG)
VTO2 (Y/L)	DI (P)	*	*	
E1 (BR)	*	ABS	*	*

28 P , B

EGW (W/R)		OD2 (G/R)	ACMG (W)	*	PWR (GR/O)	L (W)	TT (GR/R)
CCO (GR)	SP1 (P)		TE2 (GR/Y)		2 (GR)		IGSW (B/GR)
*	A/C (L/R)	*	*	*	*	*	BATT (B/Y)
ELS (R/Y)	*	*	STP (GR/W)		*	+B1 (B/R)	+B (B/R)

A/T Solenoid 3 เส้น

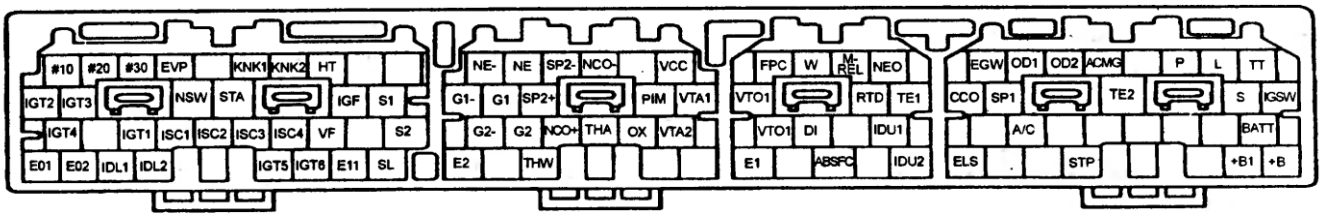


1	-	S1
2	-	S2
3	-	SL

A/T Position Sw.

1JZ – GTE , JZZ30-JZX90

Direct Coil , ปลั๊กหนา , ฝาดำ , 4 A/T8 เส้น



34 P , D (หลังปลั๊ก)

#10 (Y)	#20 (B/Y)	#30 (B)	EVAP (GR/B)	*	KNK1	KNK2	HT	SLT-	SLT+ (W/GR)
IGT2 (R/L)	IGT3 (L/B)			NSW (B/W)	STA (B)			IGF (R/Y)	S1 (LG)
IGT4 (L/W)	*	IGT1 (R/W)	ISC1 (P/R)	ISC2 (LG/B)	ISC3 (GR/Y)	ISC4 (L/W)	VF	*	S2 (R/W)
E01	E02	IDL1	IDL2			IGT5 (R/GR)	IGT6 (R/B)	SLU+	SL (G/Y)

22 P , C

NE- (L/Y)	NE+ (L/GR)	SP2- (R/Y)	NCO- (GR)	*	VC (L/R)
G1- (O)	G1 (W)	SP2+ (L/Y)		PIM (LG/B)	VTA1 (Y)
G2- (W/L)	G2 (O/L)	NCO+ (R)	THA (Y/B)	OX	VTA2 (Y/L)
E2	*	THW (GR)		*	OIL (Y/GR)

16 P , A

FPC (R/GR)	W (L/Y)	MREL (B/O)	NEO
VTO1		TRC	TE1
VTO2	DI (P)	*	*
E1	*	ABS	*	*

28 P , B

EGW (W/R)	OD1	OD2 (G/R)	ACMG (W)	*	PWR (GR/O)	L (W)	TT
CCO	SP1 (P)		TE2		2 (GR)	IGSW (B/GR)	
*	A/C (L/R)	*	*	*	*	*	BATT (B/Y)
ELS (R/Y)	*	*	STP (GR/W)		*	+B1 (B/R)	+B (B/R)

1JZ – GE , VVT , Dual Coil , Crown JZS151-1999 , A/T 6 เส้น

A340E (89661-3A210) ปลั๊กขาว, ไม่มีไมล์ไฟฟ้า , คันเกียร์สไลด์

34 P(M)(มองด้านหน้าปลั๊ก)

-	-	-	SLU- (L/R)	# 60 (R/L)	# 50 (W)	# 40 (R)	# 30 (L)	# 20 (B/R)	# 10 (Y)
S 1 (L/Y)	IGF (Y/G)			STA (B)	NSW (B/W)			OCV- (Y/B)	OCV+ (W/R)
S 2 (G/Y)	-	-	-	-	-	RSO (P/L)	IGT1 (B/R)	-	-
-	SLU+ (G/W)	KNK2 (GR)	KNK1 (B)			IDL2 (G/B)	-	E02 (W/B)	E01 (W/B)

22 P

VC (L/Y)	-	NCO- (G)	SP2- (R/L)	NE+ (B)	NE- (W)
VTA1 (Y/G)	PIM (G/W)		SP2+ (L/Y)	G2 (Y)	IDLO (BR)
VTA2 (L/W)	OX1 (W)	-	NCO+ (R)	IGT3 (G)	IGT2 (Y)
OIL (GR)	-		THW (R/L)	THA (Y/B)	E2 (BR)

16 P(N)

NEO (G/R)		W (L/B)	TRA (V/Y)	
TE1 (Y/G)	-		EFI+ (P)	
HT (G/B)	ACIS (P/B)	FC (V/Y)	EFI- (L)	
CCO (Y/B)	SNWO (GR/R)	SNW1 (R/Y)	PSST (B/L)	E1

28 P(K)

-	L (G/B)	PWR (L/W)	-	ACMG (W/G)	OD2 (O)	OD1 (LG/R)	EGW
-	2 (G/Y)		-		SPD2 (G/R)	-	
BATT (B/Y)	-	-	R (R/B)		AC2 (G/O)	AC1 (B/W)	SIL (W)
+B (B/R)		EC (W/B)		STP (G/W)	THWO (GR/L)	ELS2 (L/R)	ELS1 (LG)

1JZ – GE , VVT , Dual Coil , Mark 2 - JZX100 , A/T 6 เส้น

A340E (89661 –22740) ฝาดำ , ปลั๊กขาว, ไม่มีไมล์ไฟฟ้า , คันเกียร์สไลด์

34 P (มองด้านหน้าปลั๊ก)

-	-	-	SLU- (L/R)	# 60 (R/L)	# 50 (W)	# 40 (R)	# 30 (L)	# 20 (B/R)	# 10 (Y)
S 1 (L/Y)	IGF (Y/G)			STA (B)	NSW (B/W)			OCV- (Y/B)	OCV+ (W/R)
S 2 (G/Y)	-	-	-	-	-	RSO (P/L)	IGT1 (B/R)	-	-
-	SLU+ (G/W)	KNK2 (GR)	KNK1 (B)			IDL2 (G/B)	-	E02 (W/B)	E01 (W/B)

22 P

VCC (L/Y)	-	NCO- (G)	SP2- (R/L)	NE+ (B)	NE- (W)
VTA1 (Y/G)	PIM (G/W)		SP2+ (L/Y)	G2 (Y)	-
VTA2 (L/W)	OX1 (W)	-	NCO+ (R)	IGT3 (G)	IGT2 (Y)
OIL (G/R)	-		THW (R/L)	THA (Y/B)	E2 (BR)

16 P

NEO (G/R)	MREL	W (L/B)	TRA
TE1 (Y/G)	-		EFI+
HT (G/B)	ACIS (P/B)	FC (V/Y)	EFI-

CCO (Y/B)	SNWO	SNW1	PSW	E1

28 P

-	L (G/B)	PWR	-	ACMG (W/G)	OD2 (O)	OD1	EGW
-	2 (G/Y)		-		-	-	
BATT (B/Y)	-	-	R (R/B)	3 (G/O)	AC2 (G/O)	AC1 (B/W)	SIL
+B (B/R)	-	-		STP (G/W)	THWO	ELS2 (L/R)	ELS1 (LG)

1JZ – GE , VVT , Dual Coil , Mark 2 - 1998 , A/T 6 เส้น

A340E (89661 –22740) ฝาดำ , ปลั๊กขาว, ไม่มีไมล์ไฟฟ้า , คันเกียร์สไลด์

34 P (มองด้านหน้าปลั๊ก)

-	-	-	SLU- (G/R)	# 60 (R/B)	# 50 (L/R)	# 40 (R/W)	# 30 (G)	# 20 (L)	# 10 (R)
S 1 (Y/B)	IGF (Y/G)			STA (R/W)	NSW (B/W)			OCV- (W/L)	OCV+ (W/R)
S 2 (R/L)	-	-	-	-	-	RSO (R/Y)	IGT1 (W/G)	-	-
-	SLU+ (B/Y)	KNK2 (W)	KNK1 (W)			IDL2 (G/B)	-	E02 (W/B)	E01 (W/B)

22 P

VCC (B/Y)	-	NCO- (Y)	SP2- (R)	NE+ (B/W)	NE- (L)
VTA1 (Y/B)	PIM (W/L)		SP2+ (G)	G2 (R)	-
VTA2 (L/W)	OX1 (W)	-	NCO+ (L)	IGT3 (L/B)	IGT2 (P)
OIL (B)	-		THW (L/Y)	THA (R/W)	E2 (BR)

16 P

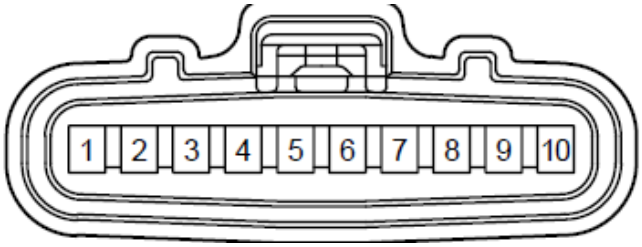
NEO (G/R)	MREL	W (GR/L)	TRA
TE1 (Y/R)	-		EFI+
HT (G/B)	ACIS (Y/G)	FC (L/B)	EFI-

CCO (Y/B)		SNW1 (V/W)	PSW	E1

28 P

-	L (Y/G)	PWR (L/W)	-	ACMG (R/L)	OD2 (R/W)	OD1	EGW
-	2 (G)		-		-	-	
BATT (B/Y)	-	-	R (R/B)		AC2 (R/Y)	A/C (L/R)	SIL (R)
+B (B/R)	-	-		STP (G/W)	THWO (G/R)	ELS2 (L/R)	ELS1 (LG)

Ignitor

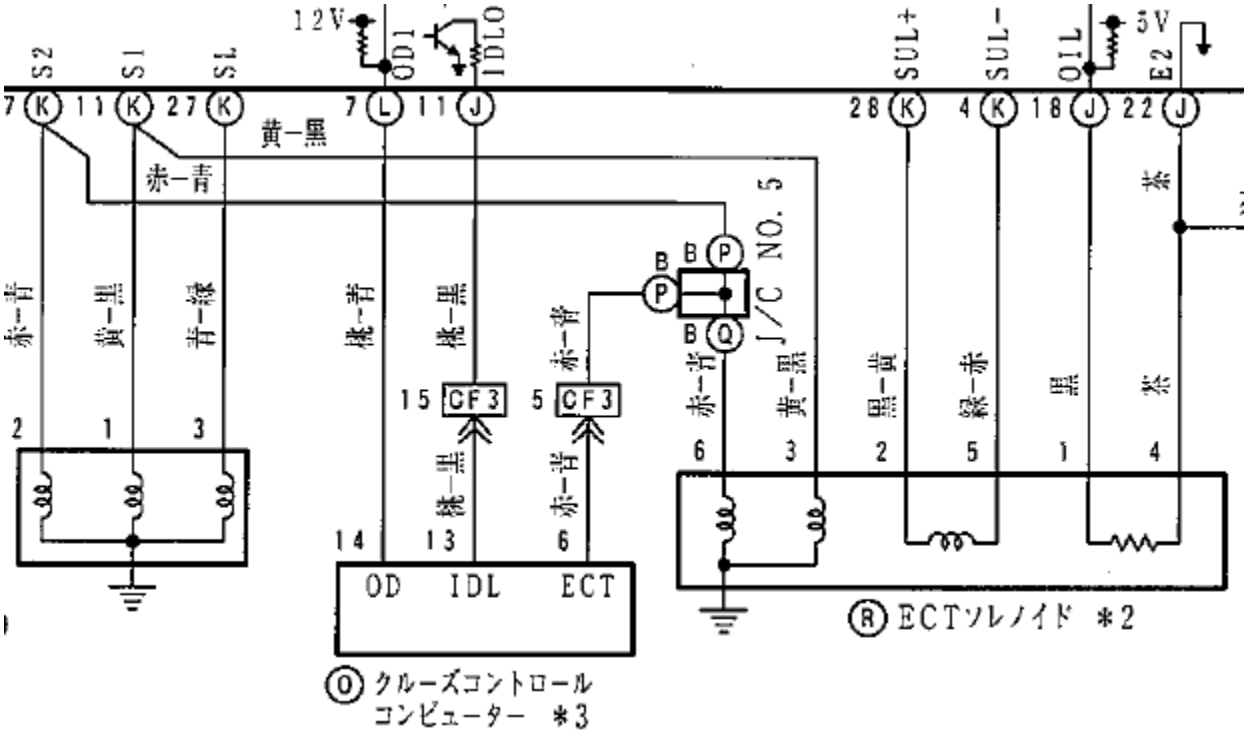


C1	C2	E1	IGF	IGT3	IGT2	IGT1	IG-	IG	C3

4 A/T Solenoid 6 เส้น (หน้าปลั๊ก)



OIL	SLU+	S1
E2	SLU-	S2


12V
OD1
IDLO
S2
S1
SL
SUL+
SUL-
OIL
5V
E2
7 K 11 K 27 K
7 L 11 J
28 K 4 K 18 J 22 J
黄－黒
赤－青
赤－青
黄－黒
青－緑
桃－青
桃－黒
赤－青
赤－青
黄－黒
黒－黄
緑－赤
黒
茶
茶
B P
B P
B Q
J/C NO. 5
2 1 3
15 CF3
5 CF3
6 3 2 5 1 4
桃－黒
赤－青
14 13 6
OD IDL ECT
Ⓡ ECTソレノイド ＊2
Ⓞ クルーズコントロール
コンピューター ＊3

1JZ – GTE , VVT – JZZ30 Soarer

4 A/T 8เส้น- คันเกียร์สไลด์ – Air Flow

34 P (หลังปลั๊ก)

#10 (Y)	#20 (W)	#30 (B)	#40 (R/B)	#50 (W/L)	#60 (R/W)	SLU- (G/R)	VTO1 (G/Y)	SLT- (G/B)	SLT+ (L/B)
OCV+ (R)	OCV – (Y/R)		NSW (B/W)	STA (B)		IGF (Y/G)	S1 (Y/B)		
EVG	E1 (BR)	IGT1 (L/R)	ISC1 (P)	ISC2 (Y/GR)	ISC3 (GR/Y)	ISC4 (L/W)	VF (LG)	ETC+ (L)	S2 (R/L)
E01 (W/B)	E02 (W/B)		IDL2 (G/B)		KNK1 (W)	KNK2 (W)	SLU+ (B/Y)	ETC- (P)	

22 P

NE- (B/R)	NE+ (BR)	SP2- (R)	NCO- (Y)		VC (L/R)
	G2 (L)	SP2+ (G)		VG (R/W)	VTA1 (Y)
IGT2 (R/B)	IGT3 (L/W)	NCO+ (L)	VTO2 (G/R)	OX (B/R)	VTA2 (L/W)
E2 (BR)	THA (Y/B)	THW (L/Y)		HT (R/Y)	OIL (B)

16 P

DI (P)	W (L/Y)	MREL (L/O)	NEO (G/R)
EFI+ (BR)			TE1 (G)
EFI- (Y)	FPC (R/W)	FAIL (LG/R)	FPU
	ABV	PRG (G/R)	

28 P

EGW (Y/B)		PWRL	ACMG (W/GR)	SPDM (V)	PWR	L (Y/G)	TT (L)
CCO (Y/B)	SP1 (P)		TE2 (P)		2 (G)	IGSW (B/O)	
ELS2 (G/O)	A/C (L/R)	AC2 (R/Y)	EFIF	ABS (R)	RSPD	3 (V)	BATT (B/Y)
ELS1 (V/W)	ELS3 (W/R)	THWO (G/R)	STP (G/W)		R (R/B)		+B (B/R)

1JZ – GTE , VVT - JZX100 Dual Coil ,1998
A341E - 4A/T 8 สาย – คันเกียร์สไลด์ – Air Flow Sensor

34 P (หลังปลั๊ก)

#10 (R)	#20 (L)	#30 (G)	#40 (R/W)	#50 (L/R)	#60 (R/B)	SLU- (G/R)	VTO1 (G/Y)	SLT- (G/B)	SLT+ (L/B)
OCV+ (W/R)	OCV – (W/L)		NSW (B/W)	STA (B)		IGF (Y/G)	S1 (Y/B)		
EVG	E1 (BR)	IGT1 (W/G)	ISC1 (R/Y)	ISC2 (L/Y)	ISC3 (G/W)	ISC4 (Y/R)	VF (LG)	ETC+ (L)	S2 (R/L)
E01 (W/B)	E02 (W/B)		IDL2 (G/B)		KNK1 (W)	KNK2 (W)	SLU+ (B/Y)	ETC- (P)	

22 P

NE- (G)	NE+ (B/W)	SP2- (R)	NCO- (Y)		VC (B/Y)
	G2 (R)	SP2+ (G)		VG (G/B)	VTA1 (Y/B)
IGT2 (P)	IGT3 (L/B)	NCO+ (L)	VTO2 (G/R)	OX (W)	VTA2 (L/W)
E2 (BR)	THA (R/W)	THW (L/Y)		HT (R/Y)	OIL (B)

16 P

FPR	W (GR/R)	MREL (G/O)	NEO (G/R)
EFI+ (BR)			TE1 (G)
EFI- (Y)	FC (L/B)	FAIL (LG/R)	FPU
	ABV	PRG (G/R)	

28 P

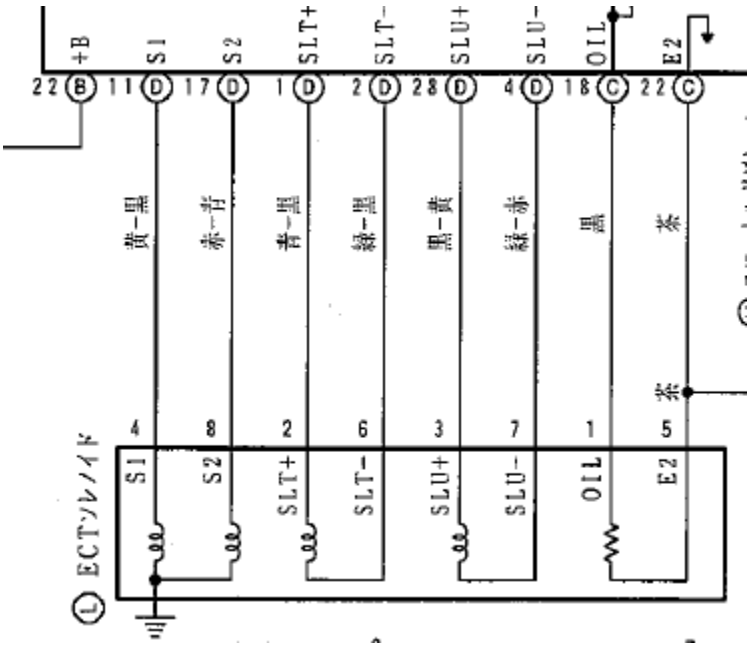
EGW (Y/B)		PWRL	ACMG (R/L)	SPDM (V)	PWR	L (Y/G)	TT (L)
CCO (Y/B)	SPD (LG/R)		TE2 (P)		2 (G)	IGSW (GR/R)	
ELS2 (G/O)	AC1 (L/R)	AC2 (R/Y)	EFIF		RSPD	3 (V)	BATT (B/Y)
ELS1 (V/W)	ELS3 (BR/W)	THWO (G/R)	STP (G/W)		R (R/B)		+B (B/R)

A/T Solenoid 8 เส้น (หน้าปลั๊ก)

灰色 Ⓛ C53

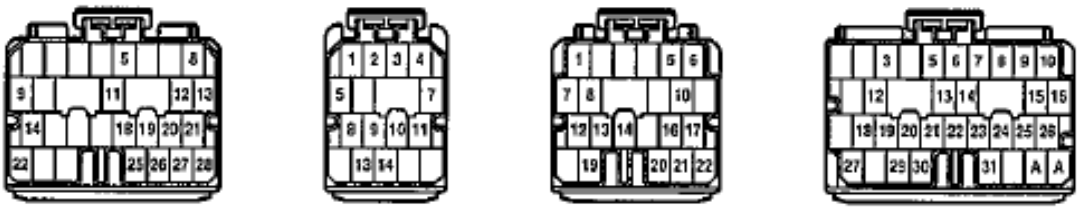


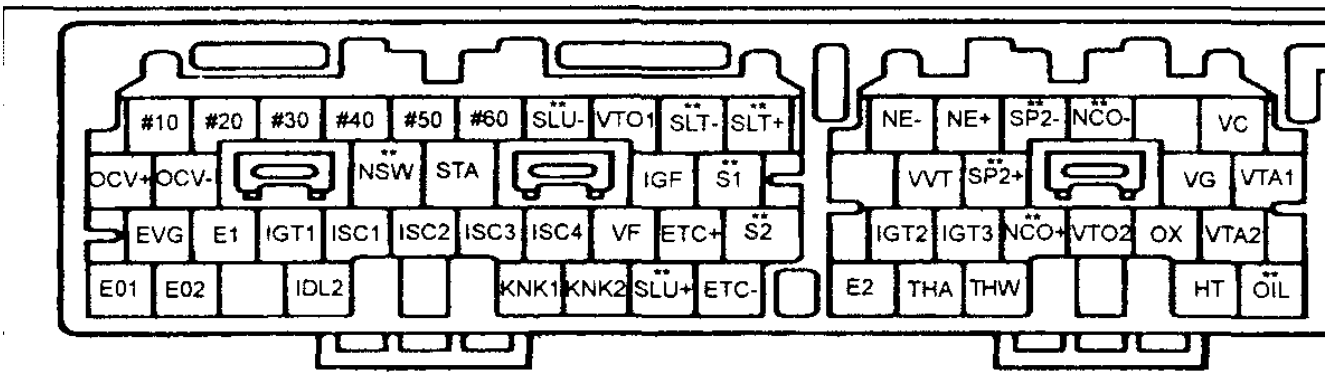
OIL	**SLT+**	**SLU+**	**S1**
E2	**SLT-**	**SLU-**	**S2**

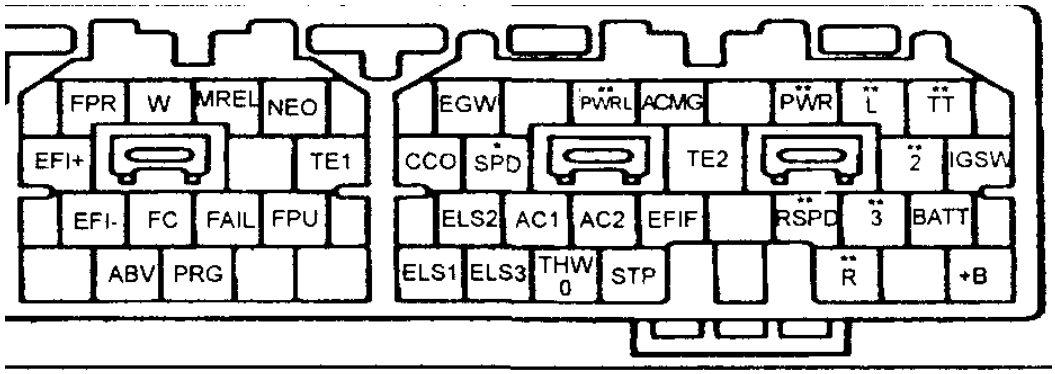


1JZ – GTE VVT , JZX 100 – 1996 , Air Flow

乳白色 Ⓖ F25 乳白色 Ⓗ F26 乳白色 Ⓘ C2 乳白色 Ⓙ C3

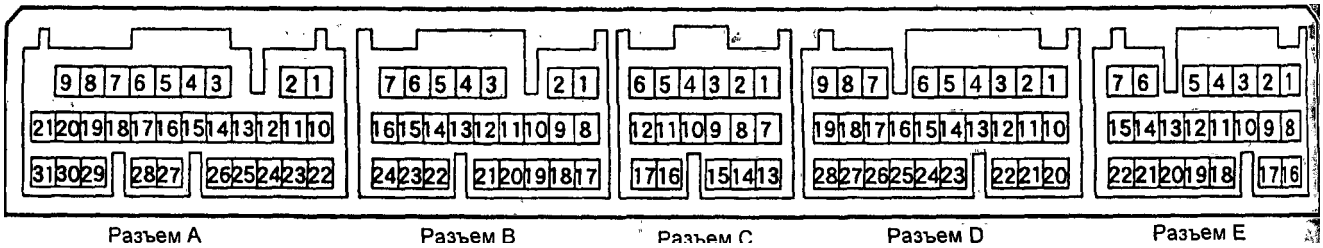






1JZ – GE VVTi , JZX110 Mark 2 (89661-2A060)

4 A/T 8 เส้น - IMO รวมในกล่อง – คันเร่งไฟฟ้า



31P (F) (หน้าปลั๊ก)

# 30 (R/W)	# 40 (W/L)		# 50 (G)	# 60 (Y)	ACIS (Y/G)	MOPS (L/W)	M- (R)	M+ (G)	ME01 (BR)		
G2 (G)	IGT1 (L/R)	IGT2 (Y)	IGT3 (R/W)	-	-	-	OCV– (Y/B)	OCV+ (R/L)	CL- (G/B)	CL+ (B/R)	E01 (W/B)
NE- (R)	NE+ (L)	-	IGF (G/W)	RL (L/B)		KNK2 (W)	KNK1 (B)		LCK1 (G/Y)	GE01	E02 (W/B)

24 P (G)

P (L/Y)	VC (B/Y)		HT2A (L)	HT1A (Y/B)	# 10 (R)	# 20 (W/R)	PRG (L/R)	
R (R/B)	PIM (W/G)	OX2A (W)	OX1A (B)	2 (G/Y)	-	THW (G/B)	VPA (Y/G)	VPA2 (G)
E1 (BR)	E2 (BR)	N (Y/R)	D (L/W)	-		THA (W/R)	VTA (R/Y)	VTA2 (B/R)

17 P (C)

S1 (G/B)	S2 (B/W)	-	NCO+ (B/R)	SP2+ (R/W)	-
SLU+ (G/W)	-	SLT+ (W/L)	NCO- (G/R)	SP2- (L/B)	ABV (Y/G)
SLU- (W/G)	-	SLT- (L)		FPU (W)	OIL (G)

28 P (A)

-	STA (L)	-	-	RDEF (L/Y)	STP (G/W)		L (Y)	-	-
TAM (L/B)	ST1- (P/L)	-	ACMG (L/O)	-	-	-	3 (G)	-	-
TACH (W/L)	PRE (G/R)	-		-	-	-		MPX2 (Y)	MPX1 (R/L)

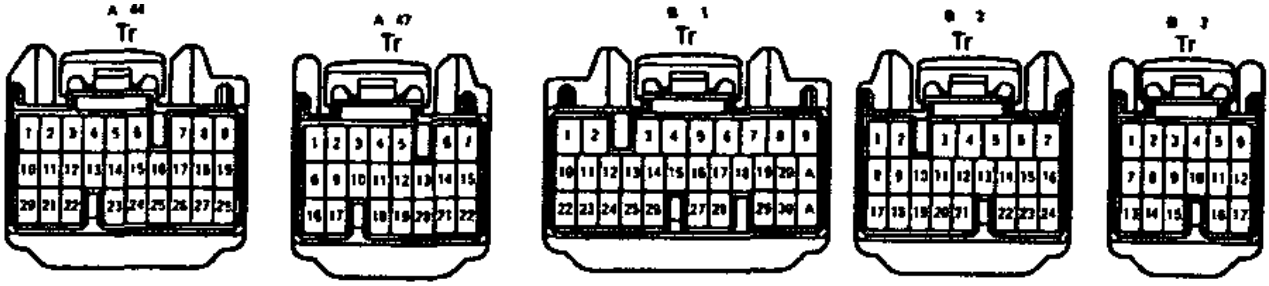
22 P (D)

BATT (B/Y)	ACMG (L/O)	TC (P/B)	SIL (W)	FC (W/G)		W (G/R)	+BM (B/W)
+ B2 (B/R)	IGSW (B/O)	MREL (G/W)	SIL (W)	TACH (W/L)	TRC+ (G/Y)	ENG+ (L)	NEO (L/R)
+ B (B/R)	FC (W/G)		MPX2 (Y)	-	TRC- (GR)	ENG- (V)	EC (W/B)

								EOM	KSW			
						IMLD	TXCT	RXCK	CODE			

1JZ – GE VVTi , JZS171 Crown

4 A/T 8เส้น+- , IMO รวมในกล่อง – คันเร่งไฟฟ้า– คันเกียร์สไลด์ 1 ชั้น– Air Flow



31P (F) (หน้าปลั๊ก)

# 30 (L)	# 40 (L/R)		# 50 (W)	# 60 (R)	ACIS (Y/G)	MOPS (LG/B)	M- (R)	M+ (G)	ME01 (BR)		
G2 (Y)	IGT1 (L/R)	IGT2 (Y)	IGT3 (V)	-	-	PSP (R/W)	OCV– (Y/B)	OCV+ (W/R)	CL- (P)	CL+ (R)	E01 (W/B)
NE- (W)	NE+ (B)	-	IGF (G/W)	RL (B/R)		KNK2 (W)	KNK1 (B)		LCK1 (GR)	GE01	E02 (W/B)

24 P (E)

P (R/W)	VC (L/Y)		HT2A (V)	HT1A (B/L)	# 10 (Y)	# 20 (R/W)	PRG (B/Y)	
R (R/B)	PIM (GR)	OX2A (W)	OX1A (B)	2 (G/Y)	-	THW (B/R)	VPA (G/W)	VPA2 (P)
E1 (BR)	E2 (BR)	N (G/R)	D (LG)	-		THA (Y/B)	VTA (R/Y)	VTA2 (L/B)

17 P (D)

S1 (L/W)	S2 (G/Y)	-	NCO+ (R)	SP2+ (L/Y)	-
SLU+ (G/W)	-	SLT+ (B/Y)	NCO- (G)	SP2- (R/L)	-
SLU- (L/R)	-	SLT- (R/B)		-	OIL (G/R)

28 P (C)

-	STA (G)	-	-	RCDF (G/B)	STP (V)		L (G/B)	-	-
TAM (V/W)	ST1- (P/L)	HP	ACMG (B/Y)	-	-	WFSE (R)	OD2 (O)	-	-
-	PRE (L/B)	-		CCS (GR)	SFTD (L/Y)	SPD (W/R)	SFTU (R/G)	-	MPX1 (R/L)

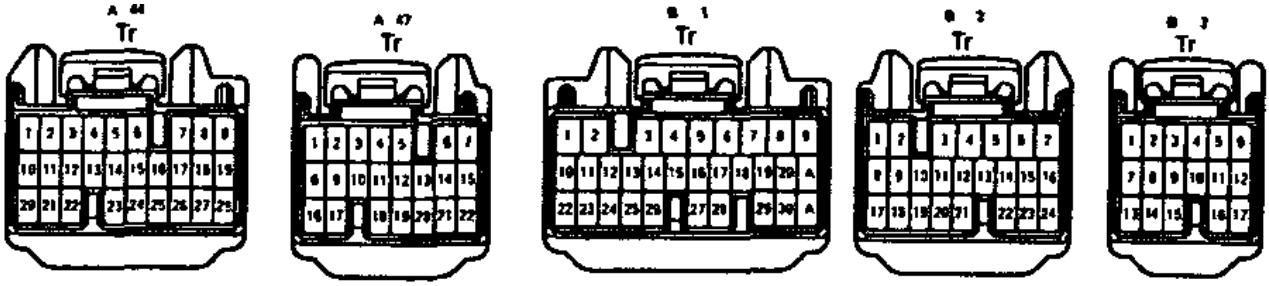
22 P (A)

BATT (B/Y)	ACMG (B/Y)	TC (V)	SIL (R)	FC (G/Y)		W (R/L)	+BM (P)
+ B2 (B/R)	IGSW (B/W)	MREL (B)	-	TACH (W)	TRC+ (BR)	ENG+ (B)	NEO (G/R)
+ B (B/R)	-		MPEX2 (GR/B)	-	TRC- (Y)	ENG- (W)	EC (W/B)



								EOM	KSW			
						IMLD	TXCT	RXCK	CODE			

1JZ – GTE VVTi , JZX110 Mark 2 , Air Flow Sen. (89661-2A060)
4 A/T 8 เส้น - IMO รวมในกล่อง – คันเร่งไฟฟ้า– คันเกียร์สไลด์ 1 ชั้น



31P (F) (หน้าปลั๊ก)

# 30 (R/W)	# 40 (W/L)		# 50 (G)	# 60 (Y)	RDEF	-	M- (R)	M+ (G)	ME01 (BR)		
G2 (G)	IGT1 (L/R)	IGT2 (Y)	IGT3 (R/W)	-	-	-	OCV– (Y/B)	OCV+ (R/L)	CL- (G/B)	CL+ (B/R)	E01 (W/B)
NE- (R)	NE+ (L)	-	IGF (G/W)	RL (L/B)		KNK2 (W)	KNK1 (B)		LCK1 (G/Y)	GE01	E02 (W/B)

24 P (G)

-	VC (B/Y)		-	HT1A (Y/B)	# 10 (R)	# 20 (W/R)	PRG (L/R)	
MOPS (L/W)	PSP (R)	VG (L/Y)	-	OX1A	N (Y/R)	THW (G/B)	VPA (Y/G)	VPA2 (G)
E1 (BR)	E2 (BR)	EVG (G/W)	2 (G/Y)	L (Y)		THA (W/R)	VTA (R/Y)	VTA2 (B/R)

17 P (H)

S1 (G/B)	S2 (B/W)	-	NCO+ (B/R)	SP2+ (R/W)	-
SLU+ (G/W)	-	SLT+ (W/L)	NCO- (G/R)	SP2- (L/B)	ABV (Y/G)
SLU- (W/G)	-	SLT- (L)		FPU (W)	OIL (G)

28 P (A)

-	STA (L)	-	-	TC (P/B)	STP (G/W)		3 (G)	-	-
TAM (L/B)	ST1- (P/L)	HP	ACMG (L/O)	-	-	R (R/B)	D (L/W)	-	-
TACH (W/L)	PRE (G/R)	-		CCS (GR)	-	SPD (W/R)	P (L/Y)	MPX2 (Y)	MPX1 (R/L)

22 P (D)

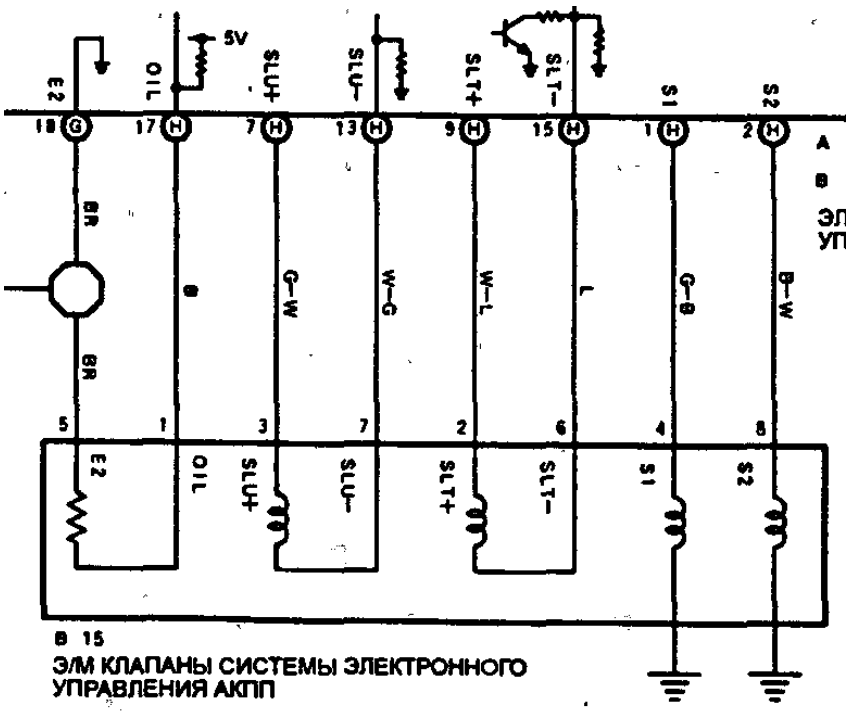
BATT (B/Y)	-	-	FPR (L/W)	FC (W/G)		W (G/R)	+BM (B/W)
+ B2 (B/R)	IGSW (B/O)	MREL (G/W)	SIL (W)	-	TRC+ (G/Y)	ENG+ (L)	NEO (L/R)
+ B (B/R)	-		RFC	-	TRC- (GR)	ENG- (V)	EC (W/B)



								EOM	KSW			
						IMLD	TXCT	RXCK	CODE			

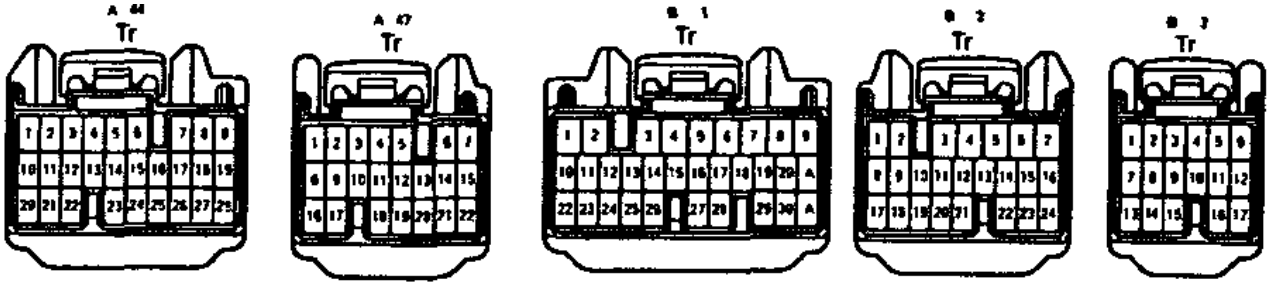
รุ่นนี้มี **Power Steering Sensor**

A/T Solenoid 8 เส้น



1JZ – GTE VVTi , JZS171 Crown(89661-3A660)

4 A/T 12 เส้น+- , IMO รวมในกล่อง – คันเร่งไฟฟ้า– คันเกียร์สไลด์ 1 ชั้น– Air Flow



31P (F) (หน้าปลั๊ก)

# 30 (L)	# 40 (L/R)		# 50 (W)	# 60 (R)	RDEF (G/B)	-	M- (R)	M+ (G)	ME01 (BR)		
G2 (Y)	IGT1 (L/R)	IGT2 (Y)	IGT3 (V)	-	-	-	OCV– (Y/B)	OCV+ (W/R)	CL- (P)	CL+ (R)	E01 (W/B)
NE- (W)	NE+ (B)	-	IGF (G/W)	RL (B/R)		KNK2 (W)	KNK1 (B)		LCK1 (GR)	GE01	E02 (W/B)

24 P (E)

-	VC (L/Y)		-	HT1A (B/L)	# 10 (Y)	# 20 (R/W)	PRG (B/Y)	
MOPS (LG/B)	PSP (R/W)	VG (R/L)	-	OX1A (B)	N (G/R)	THW (B/R)	VPA (G/W)	VPA2 (P)
E1 (BR)	E2 (BR)	EVG (GR)	2 (G/Y)	L (G/B)		THA (Y/B)	VTA (R/Y)	VTA2 (L/B)

17 P (D)

S1 (L/W)	S2 (G/Y)	S3 (R/Y)	NCO+ (R)	SP2+ (L/Y)	S4 (Y/B)
SLU+ (G/W)	SLN+ (P)	SLT+ (B/Y)	NCO- (G)	SP2- (R/L)	-
SLU- (L/R)	SLN- (L/B)	SLT- (R/B)		-	OIL (G/R)

28 P (C)

-	STA (G)	-	SFTU (R/G)	TC (V)	STP (V)		3 (O)	-	-
TAM (V/W)	ST1- (P/L)	HP	ACMG (B/Y)	SFTD (L/Y)	-	R (R/B)	D (LG)	-	-
TACH (W)	PRE (L/B)	-		CCS (GR)	-	SPD (W/R)	P (R/W)	MPX2 (GR/B)	MPX1 (R/L)

22 P (A)

BATT (B/Y)	-	-	FPR (B/R)	FC (G/Y)		W (R/L)	+BM (P)
+ B2 (B/R)	IGSW (B/W)	MREL (B)	SIL (R)	-	TRC+ (BR)	ENG+ (B)	NEO (G/R)
+ B (B/R)	-		RFC	-	TRC- (Y)	ENG- (W)	EC (W/B)



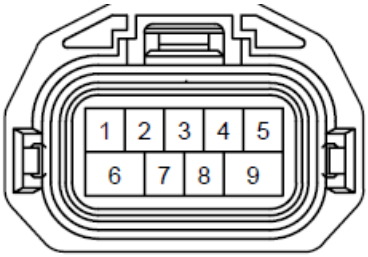
								EOM	KSW			
						IMLD	TXCT	RXCK	CODE			

5 A/T Solenoid 12 เส้น , เกียร์ + - ทำงานในตำแหน่ง 3



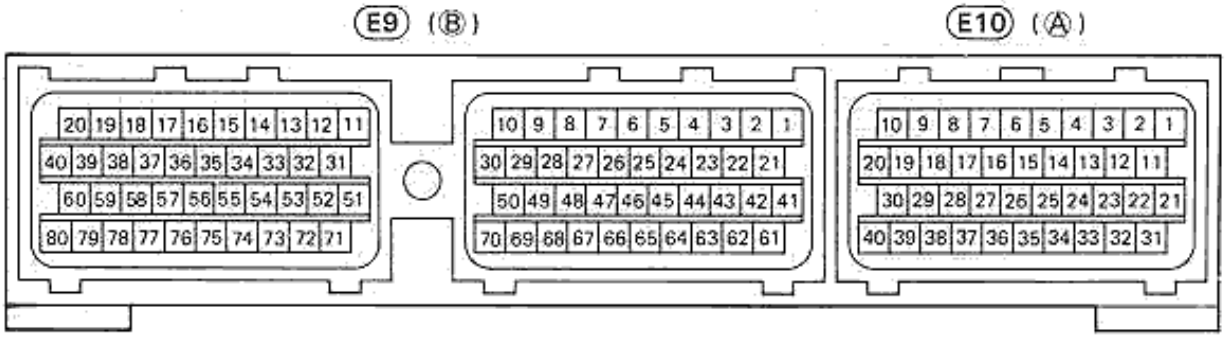
OIL	**SLT+**	**SLN+**	**SLU+**	**S3**	**S1**
E2	**SLT-**	**SLN-**	**SLU-**	**S4**	**S2**

A/T Position Sw.



P (R/W)	**R (R/B)**	**IG (B/W)**	**2 (G/Y)**	**N (G/R)**
STA (B)	**D (LG)**	**L (L)**	**NSW (B/W)**	

1JZ – GTE (89661 –38560) Direct Coil
ฝาดำนูน Aristo
(ปลั๊กเหลือง 3 ช่อง นัตขัน)



40 P ช่องซ้าย (หน้าปลั๊ก) B

E01	E02		STA	NSW		EVP			HT
PMC		IGF	IGT1	IGT2	IGT3	IGT4	IGT5	IGT6	
VSV1	ACIS	VSV3			ISC1	ISC2	ISC3	ISC2	SLT+
#10	#20	#30	#40	#50	#60	SLU-	SLN-	SLT-	

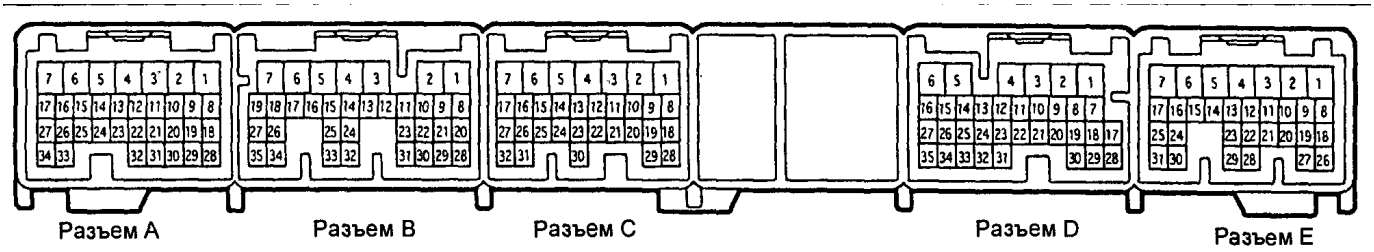
40 P ช่องกลาง B

	E1				E2	IDL1	IDL2	PIM	
KNK1	KNK2	OX			THA	THW	VTA1	VTA2	VC
	VF1	VF2	NE+	G1+	G2+	OIL	SP2+		NCO+
S1	S2		NE-	G1-	G2-		SP2-		NCO-

40 P ช่องขวา A

VTO1	VTO2	NEO	TRC		PSW	A/C	BATT	+B	+B
	CCO	OD2				MREL	ACMG	FPC	D1
TE1	TE2	PWR	TT		ELS			OD1	AD
L	2		R	W	EGW	STP	KD	SP1	IG

1JZ – FSE, D-4 engine(JZX110)5 A/T



A 34 P

1	-	M- (R)
2	-	+BM (B/W)
3	-	M+ (G)
4	-	FP- (W)
5	-	+BFP (W)
6	-	FP+ (B)
7	-	ME01
8	-	OCV- (Y/B)
9	-	OCV+ (R/L)
10	-	IGF (B/Y)
11	-	IGT6 (G/Y)
12	-	IGT5 (G/R)
13	-	IGT4 (L/Y)
14	-	IGT3 (R/W)
15	-	IGT2 (Y)
16	-	IGT1 (L/R)
17		
18		
19		
20		
21		
22	-	PB
23	-	PIM (W/G)
24	-	THA (W/R)
25	-	THW (G/B)
26	-	MOPS (L/W)
27		
28		
29		
30	-	G2 (G)
31	-	NE- (R/Y)
32	-	NE+ (L)
33		
34	-	GE01

B 35 P

1	-	KNK2 (W)
2	-	KNK1 (B)
3	-	SLU- (W/G)
4	-	SLU+ (G/W)
5	-	S3 (R/Y)
6	-	E02
7	-	E01
8	-	SLT- (L)
9	-	SLT+ (W/L)
10	-	TCV (P)
11	-	ACIS (Y/G)
12	-	PRG (L/R)
13	-	2 (Y)
14	-	3 (G)
15	-	D (L/W)
16	-	N (Y/R)
17	-	R (R/B)
18	-	P (L/Y)
19	-	SLN+ (G/Y)
20	-	S1 (G/B)
21		
22	-	NCO- (G/R)
23	-	NCO+ (B/R)
24	-	PM (R/L)
25	-	OIL (B)
26	-	PSP (R)
27	-	SLN- (Y/B)
28	-	S2 (B/W)
29		
30		
31		
32	-	SP2- (L/B)
33	-	SP2+ (R/W)
34		
35	-	S4 (W/R)

C 32 P

1	-	E1
2	-	#60 (Y)
3	-	#50 (G)
4	-	#40 (W/L)
5	-	#30 (R/W)
6	-	#20 (W/R)
7	-	#10 (R)
8		
9	-	EGR1 (G/W)
10		

D 35 P

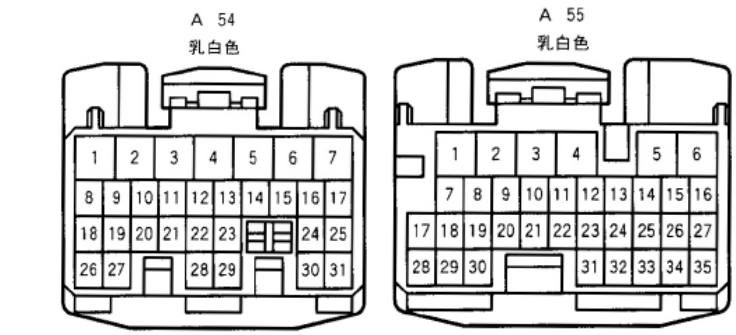
1		
2	-	MREL (G/W)
3	-	FC (W/G)
4	-	W (G/R)
5	-	ACMG (L/O)
6		
7		
8		
9	-	L (Y/B)
10	-	4 (G)

11	11
12	12
13 - INJF (R/B)	13
14	14
15	15
16 - RL	16 - PR
17 - HT1A	17
18 - EGR2 (P)	18 - TRC+
19 - VTA2 (B/R)	19 - ENG+
20 - VTA (R/Y)	20 - NEO
21	21
22 - EGR3 (R/L)	22 - WFSE
23	23
24	24 - EPA2 (R/B)
25 - VCP2	25 - VCP2 (P/B)
26 - OX1A	26 - TAM
27 - HT2A	27
28 - E2 (BR)	28
29 - VC	29 - TRC-
30 - EGR4 (G/B)	30 - ENG-
31 - OX2A	31
32	32 - VPA2 (G)
	33 - VPA (Y/G)
	34 - SPD2
	35

E 31 P	
1 - + B1(B/R)	
2 - + B2 (B/R)	
3 - BATT (B/Y)	
4	
5 - IGSW (B/O)	
6	
7 - IREL (R/Y)	
8	
9	
10	
11 - STP (G/W)	20
12 - STA (L)	21 - TACH (W/L)
13 - TC	22 - CCS
14 - PRE	23 - MPX1
15 - ST1	24
16	25
17	26 - SIL
18	27
19	28
	29 - MPX2
	30
	31 - EC

1JZ – FSE, D-4 engine(JZS171) , 5 A/T + -

A 54 (H), A 55 (I), B 87 (J), B 88 (K), B 89 (L)
エンジンコントロールECU

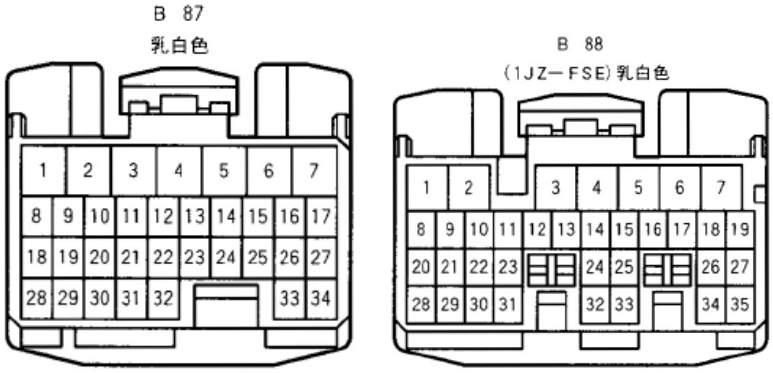


A 54 (H) 31 P

1 - + B1(B/R)
2 - + B2 (B/R)
3 - BATT (B/Y)
4
5 - IGSW (B/W)
6
7 - IREL (O)
8
9
10
11 - STP (V)
12 - STA (L)
13 - TC (V)
14 - PRE (L/B)
15 - ST1
16
17
18
19
20
21 - TACH (W)
22 - CCS
23 - MPX1 (GR/B)
24
25
26 - SIL (R)
27
28
29 - MPX2 (GR/B)
30
31 - EC (W/B)

A 55 (I) 35 P

1
2 - MREL (B)
3 - FC (G/Y)
4 - W (R/L)
5 - ACMG (B/Y)
6
7
8 - OD2 (LG)
9 - L (L/W)
10 - 4 (O)
11
12
13
14 - SFTD (L/Y)
15 - SFTU (R/G)
16 - RDEF (G/B)
17
18 - TRC+ (BR)
19 - ENG+ (B)
20 - NEO (G/R)
21
22 - WFSE (R)
23
24 - EPA2 (B/W)
25 - VCP2 (B/R)
26 - TAM (V/W)
27
28
29 - TRC- (Y)
30 - ENG- (W)
31
32 - VPA2 (P)
33 - VPA (G/W)
34 - SPD2
35



B 87 (J) 34 P

1 - M- (R)
2 - +BM (B/W)
3 - M+ (G)
4 - FP- (W)
5 - +BFP (W)
6 - FP+ (B)
7 - ME01 (BR)
8 - OCV- (Y/B)
9 - OCV+ (R/L)
10 - IGF (B/Y)
11 - IGT6 (G/Y)
12 - IGT5 (G/R)
13 - IGT4 (L/Y)
14 - IGT3 (R/W)
15 - IGT2 (Y)
16 - IGT1 (L/R)
17
18
19
20
21
22 - PB (P/L)
23 - PIM (W/G)
24 - THA (W/R)
25 - THW (G/B)
26 - MOPS (L/W)
27
28
29
30 - G2 (G)
31 - NE- (R/Y)
32 - NE+ (L)
33
34 - GE01

B 88 (K) 35 P

1 - KNK2 (W)
2 - KNK1 (B)
3 - SLU- (W/G)
4 - SLU+ (G/W)
5 - S3 (R/Y)
6 - E02
7 - E01
8 - SLT- (L)
9 - SLT+ (W/L)
10 - TCV (P) , VSV
11 - ACIS (Y/G) , VSV
12 - PRG (L/R) , VSV
13 - 2 (Y)
14 - 3 (G)
15 - D (L/W)
16 - N (Y/R)
17 - R (R/B)
18 - P (L/Y)
19 - SLN+ (G/Y)
20 - S1 (G/B)
21
22 - NCO- (G/R)
23 - NCO+ (B/R)
24 - PM (R/L) , Pressure Rail Sen.
25 - OIL (B)
26 - PSP (R)
27 - SLN- (Y)
28 - S2 (B/W)
29
30
31
32 - SP2- (L/B)
33 - SP2+ (R/W)
34
35 - S4 (W/R)



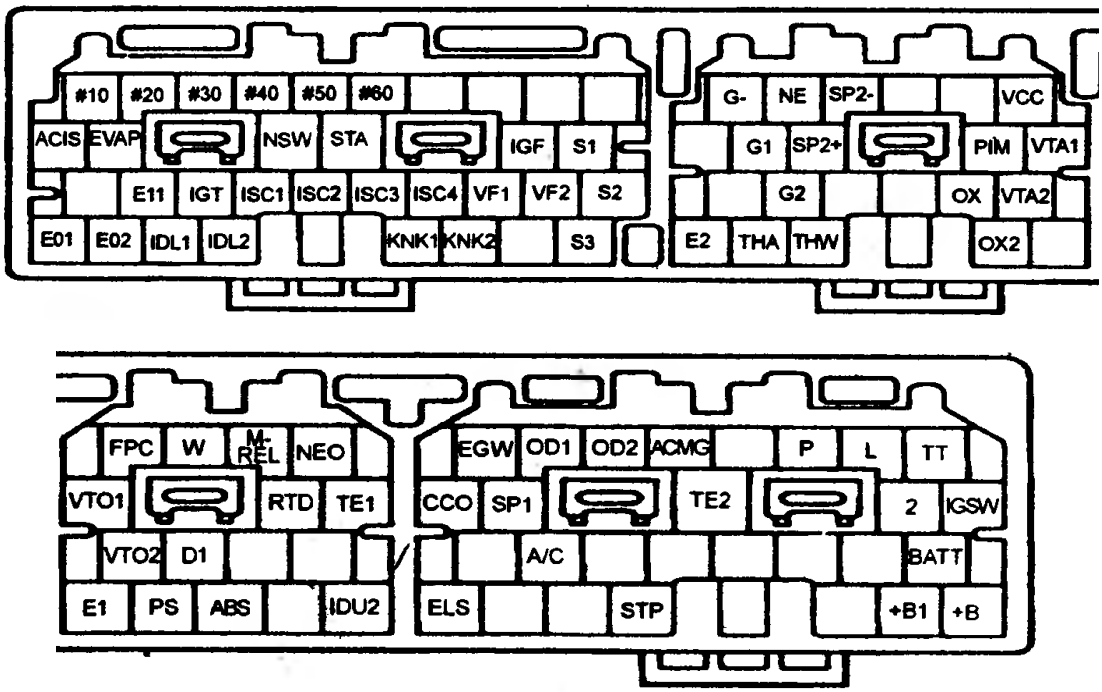
B 89 (L) 32 P

1	-	E1
2	-	#60 (Y)
3	-	#50 (G)
4	-	#40 (W/L)
5	-	#30 (R/W)
6	-	#20 (W/R)
7	-	#10 (R)
8		
9	-	EGR1 (G/W)
10		
11		
12		
13	-	INJF (R/B)
14	-	LCK1 (G/Y)
15		
16	-	RL (L/B)
17	-	HT1A (Y/B)
18	-	EGR2 (P)
19	-	VTA2 (B/R)
20	-	VTA (R/Y)
21		
22	-	EGR3 (R/L)
23		
24		
25	-	VCP2
26	-	OX1A (B)
27	-	HT2A (L)
28	-	E2 (BR)
29	-	VC (B/Y)
30	-	EGR4 (G/B)
31	-	OX2A (W)
32		

2JZ-GE VVT-i CROWN JZS155 A/T 89661-22770
2JZ-GE VVT-i CROWN JZS155 A/T 89661-3A120
2JZ-GE VVT-i CROWN JZS155 M/T 89661-3A170
2JZ-GE VVT-I JZS155 A/T 89661-3A110 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-I JZS155 A/T 89661-3A120 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-I JZS155 A/T 89661-3A130 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-i JZS155 A/T ETCS-i 89661-3A340 (SPDM IN A BOX FROM SP2) and (Not CAN)
2JZ-GE VVT-i 5A/T ETCS-i 89661-24541 (Not CAN)
2JZ-GE VVT-i A/T ETCS-i 89661-3A530 (Not CAN)
2JZ-GE VVT-i A/T ETCS-i 89661-3A410 (CAN BUS System)
2JZ-GE VVT-i A/T ETCS-i 89661-3A411 (CAN BUS System)
2JZ-GE VVT-i CROWN JZS155 A/T 89661-22770
2JZ-GE VVT-i CROWN JZS155 A/T 89661-3A120
2JZ-GE VVT-i CROWN JZS155 M/T 89661-3A170
2JZ-GE VVT-I JZS155 A/T 89661-3A110 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-I JZS155 A/T 89661-3A120 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-I JZS155 A/T 89661-3A130 (SPDM IN A BOX FROM SP2)
2JZ-GE VVT-i JZS155 A/T ETCS-i 89661-3A340 (SPDM IN A BOX FROM SP2) and (Not CAN)
2JZ-GE VVT-i 5A/T ETCS-i 89661-24541 (Not CAN)
2JZ-GE VVT-i A/T ETCS-i 89661-3A530 (Not CAN)
2JZ-GE VVT-i A/T ETCS-i 89661-3A410 (CAN BUS System)
2JZ-GE VVT-i A/T ETCS-i 89661-3A411 (CAN BUS System)

2JZ – GE , 1992 , A/T 3 สาย

หลังปลั๊ก



2 JZ–GE , JZS 143 Crown (89661 – 30760)
ปลั๊กหนา ฝาดำ , Speed 2 สาย , A/T 6 เส้น

-+34 P (หน้าปลั๊ก)

		SLN- (GR)	SLU- (B)	# 60 (R/B)	# 50 (R)	# 40 (R/W)	# 30 (R/G)	# 20 (R/G)	# 10 (R/L)
S 1 (R)	IGF (G/Y)			STA (B/W)	NSW (B)		EVAP (BR/Y)	ACIS (BR/R)	
S 2 (R/L)	VF2 (G/Y)	VF1 (G/R)	ISC3 (Y/B)	ISC2 (Y/G)	ISC4 (Y/R)	ISC1 (Y)	IGT (G/W)	E1 (BR)	
		KNK2 (GR)	KNK1 (W)		IDL1 (Y/G)	E02 (W/B)	E01 (W/B)		

22 P

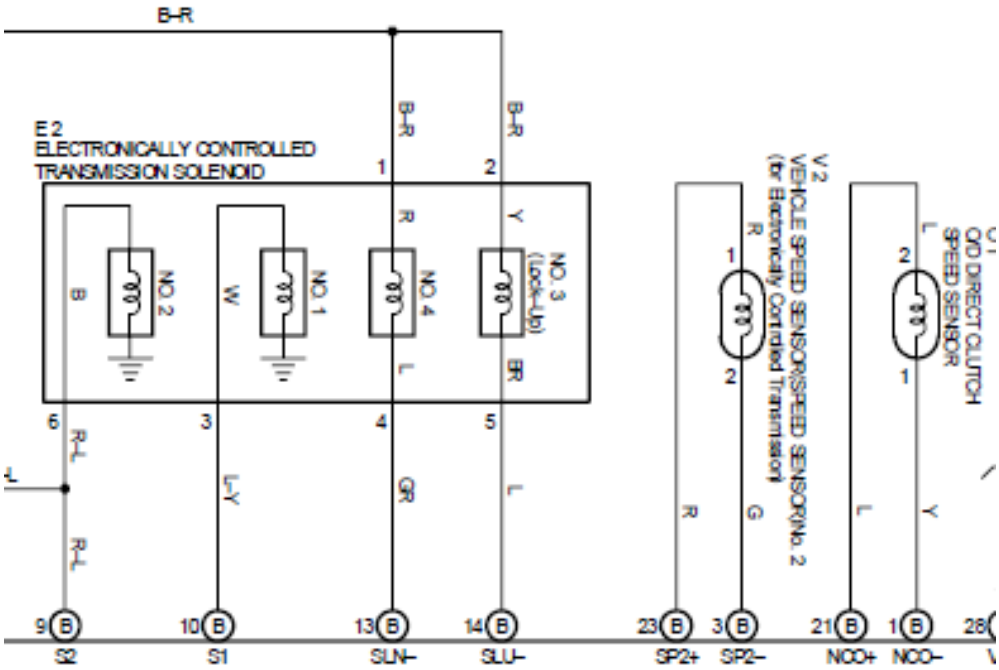
VCC (L/R)		NCO- (Y)	SP2- (G)	NE (B)	G- (G)
VTA1 (Y)	PIM (L)		SP2+ (R)	G1 (R)	
VTA2	OX1 (B)		NCO+ (L)	G2 (W)	
	OX2 (W)		THW (R/L)	THA (R)	E2 (BR)

16 P

NEO	MREL (G/O)	W (B/Y)	FPC (G/R)	
TE1 (L/W)	TR		VTO1	
M+ (G/R)	KD	DI (LG/R)		
M- (G/W)			PSST (G)	E1 (BR)

28 P

TT (LG/B)	L (G/B)	PWR (L/W)		ACMG (B/W)	OD2 (B/R)	OD1 (V)	EGW (G/W)
IG.SW (B/O)	2 (G/O)		TE2 (L/R)		SP1 (V/W)	CCO (G/R)	
BATT (W/R)					AC2	A/C (R)	
+B (B/R)	+B (B/R)	R (R/B)		STP (G/W)	THWO	ELS2	ELS1 (B/L)



4 A/T Solenoid (A340E) 6 เส้น

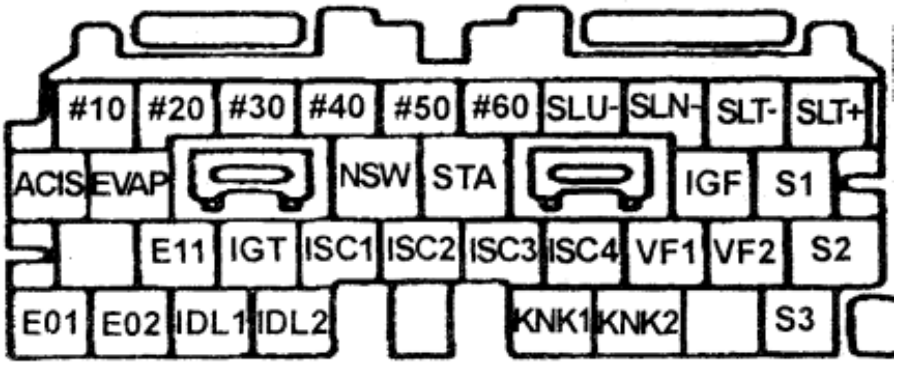
+ B	**+ B**	**S1**
SLN-	**SLU-**	**S2**

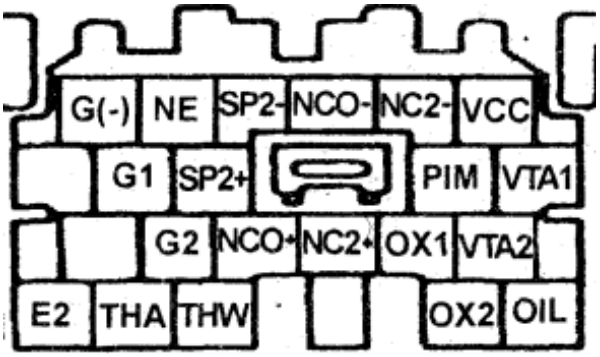
SP2 - 2 สาย - แบบลูกฟูก

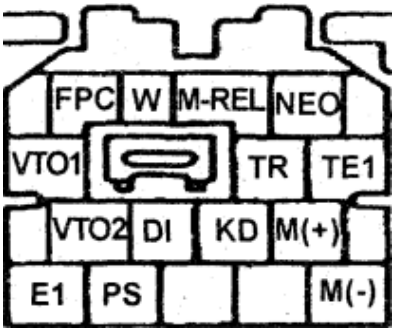
2 JZ – GE ปลั๊กหนา - ฝาดำ- 1998

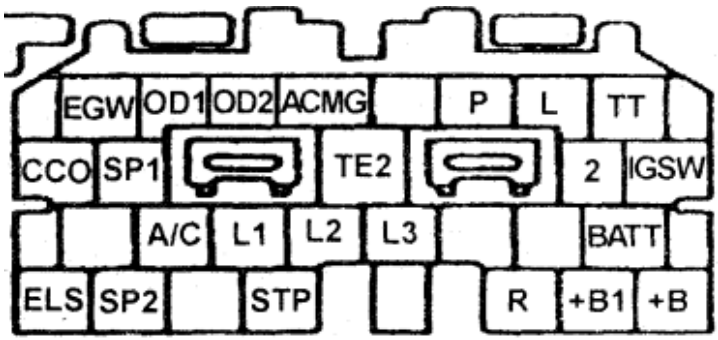
(89661-22420) JZS 143 ใช้ SPD แทน SP2 - A/T 8 เส้น

หลังปลั๊ก









4 A/T Solenoid (A 350E) 8 เส้น

E 2 GRAY

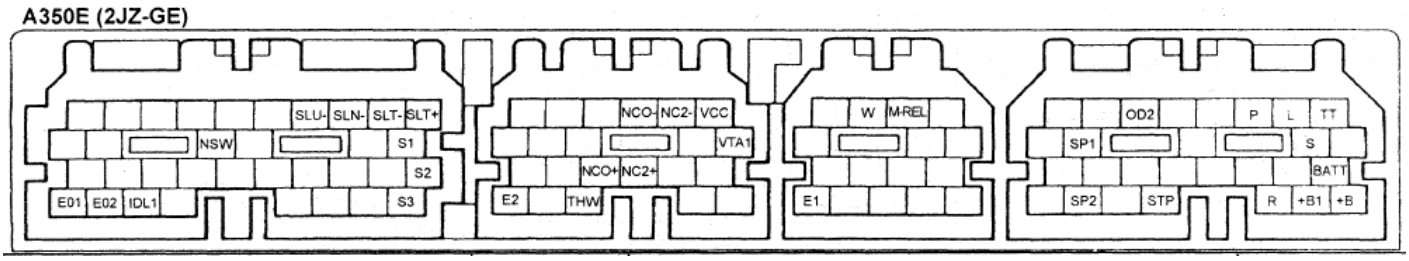


SLT+	+B	+B	S1
SLT-	SLN-	SLU-	S2

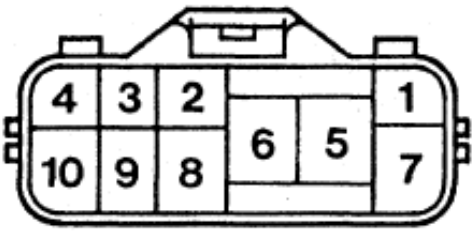
SP2+ - R SP2- - G NCO+ - L NCO- - Y IG - B/O #10 - R/L #20 - R/Y #30 - R/G #40 - R/W #50 - R #60 - R/B G- - G G2 - W G1 - R NE - B	Oil - Y/B Temp - Y/G A/C Comp - B/W IG - R/L P - G/Y R - R/B N - G/R D - G/W 2 - G/O L - G/B

2 JZ–GE , JZS 143 (89661-30770) , A350E - 5 speed

ปลั๊กหนา ฝาดำ , Speed 3 สาย , A/T 6 เส้น, Kick Down ไฟฟ้า

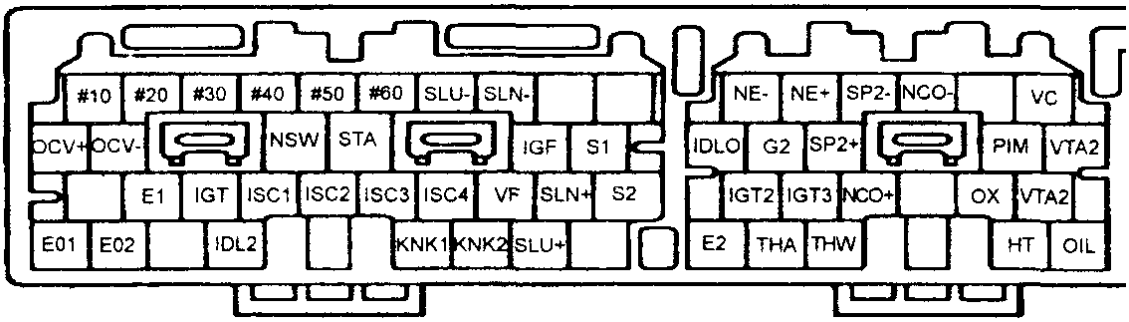


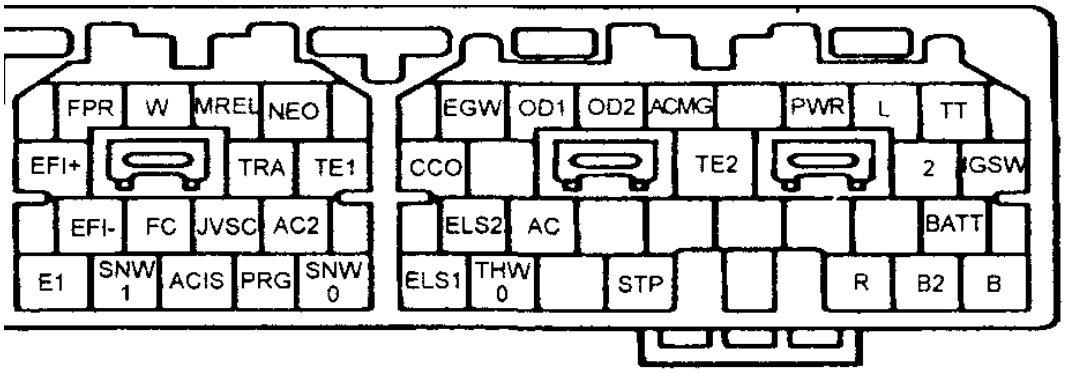
Neutral Position Switch

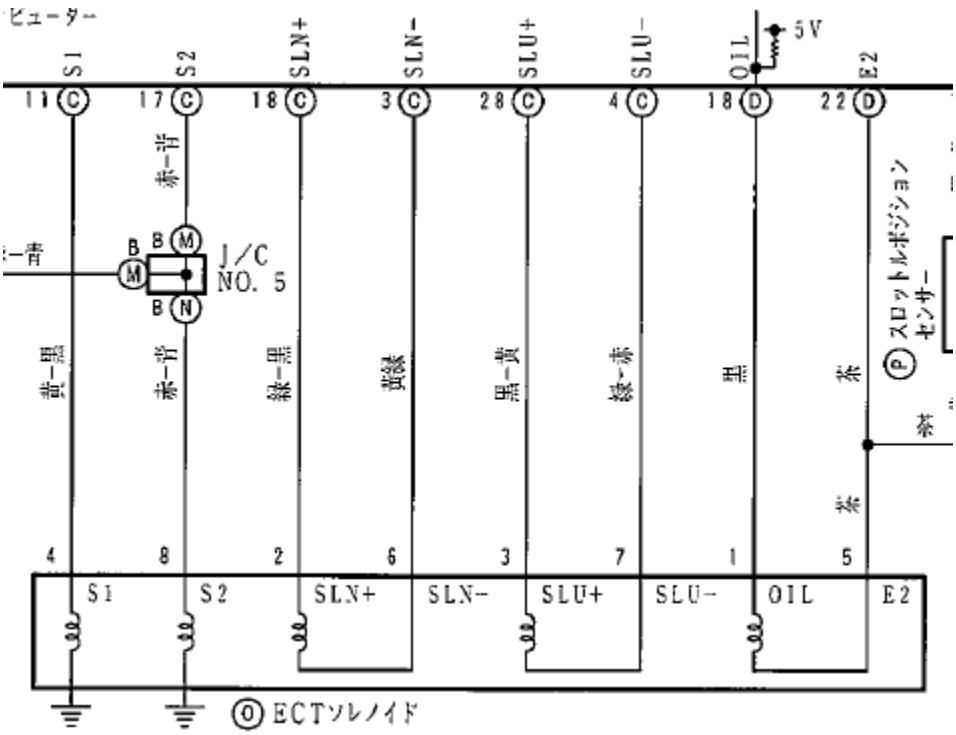


1	-	@
2	-	2
3	-	L
4	-	IG
5	-	STA
6	-	NSW
7	-	P
8	-	R
9	-	D
10	-	N

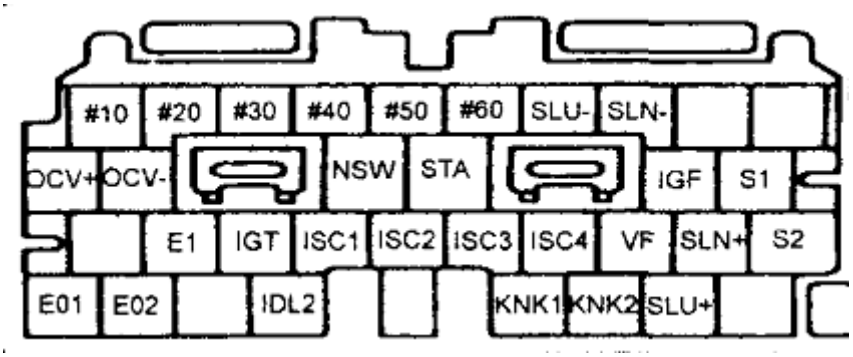
2JZ – GE VVT , JZS155 –4 A/T - 1996

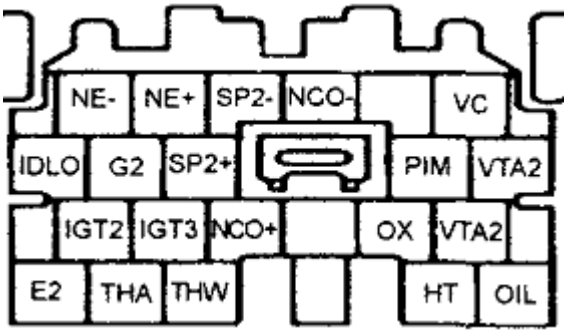


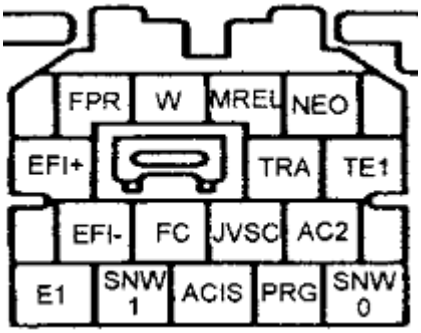


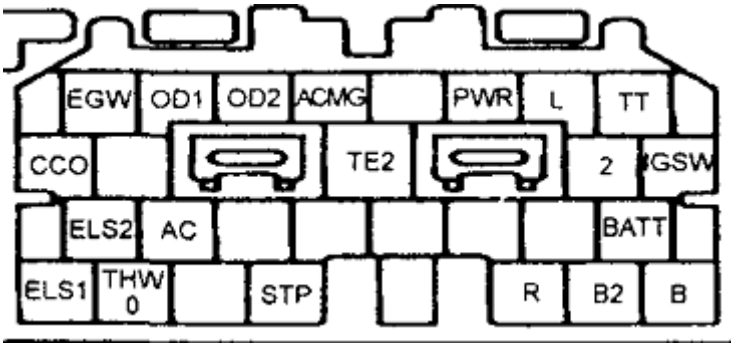


2JZ – GE ,VVT - JZX 100 - 1996

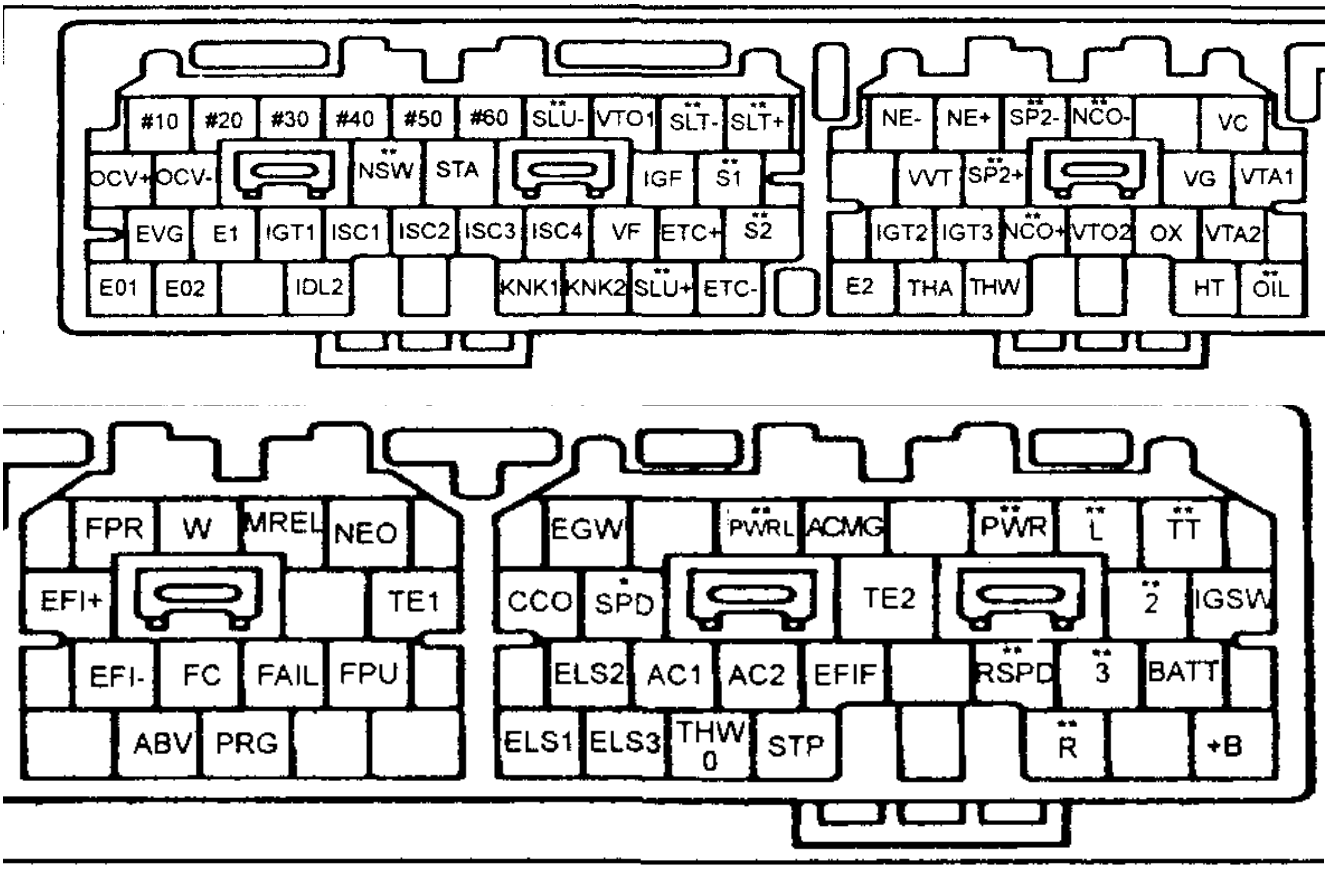








2JZ–GE VVT - 1998



IG - B/W
#10 - R
#20 - L
#30 - G
#40 - R/W
#50 - L/R
#60 - R/B

IGT1 - L/B
IGT2 - P
IGT3 - W/G
IGF - Y/G

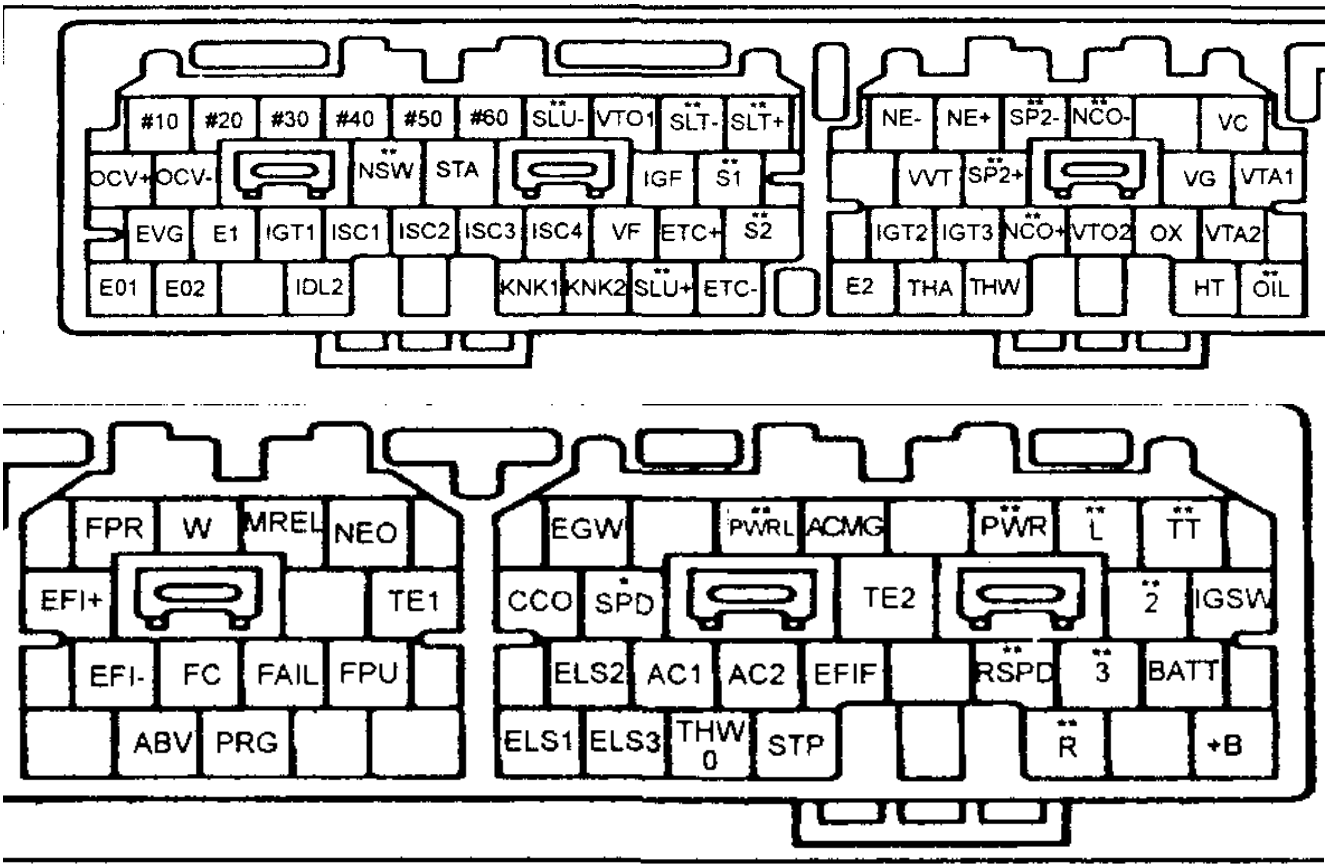
BATT - B/Y
IG Sw. - GR/R
MREL - P/B
FC - L/B
OCV+ - W/R
OCV- - W/L
THW - L/Y
W - GR/R

NE+ - B/W
NE- - L

Oil - Y/B
Temp - Y/G
A/C Comp - B/W

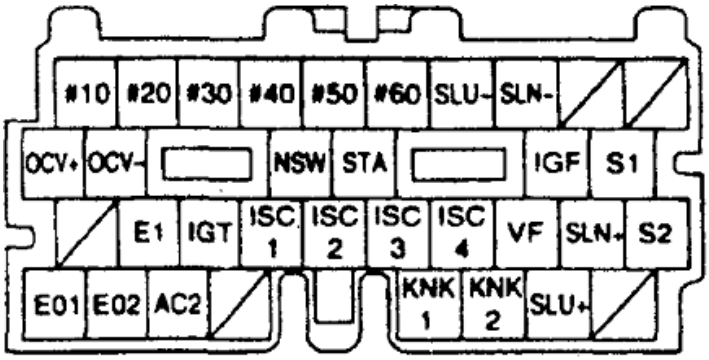
IG - R/L
P - G/Y
R - R/B
N - G/R
D - G/W
2 - G/O
L - G/B

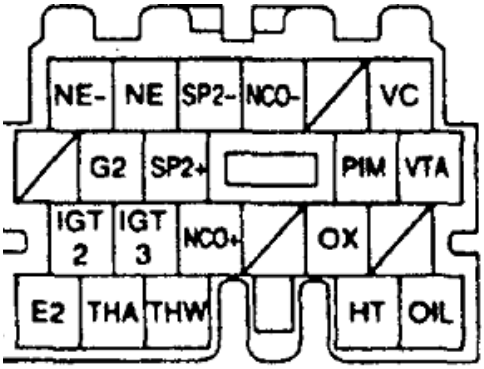
2JZ – GE , VVT - 2000

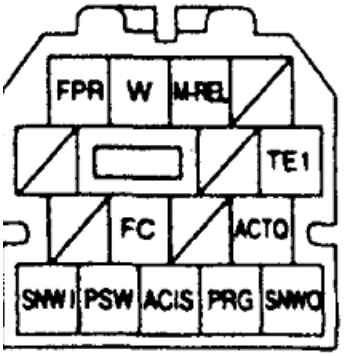


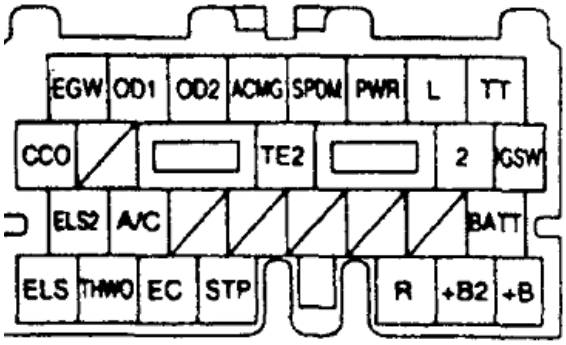
IG - B/W #10 - Y #20 - B/R #30 - L #40 - R #50 - W #60 - R/L IGT1 - B/R IGT2 - Y IGT3 - G IGF - Y/G BATT - B/Y IG Sw. - B/L MREL - G/O FC - V/Y OCV+ - W/R OCV- - Y/B THW - R/L W - GR/R	NE+ - B NE- - L G2 - Y Oil - Y/B Temp - Y/G A/C Comp - B/W IG - R/L P - G/Y R - R/B N - G/R D - G/W 2 - G/O L - G/B NSW - B/W (-) PWR - L/W (+)

2 JZ – GE ,VVT
JZS 155 , 1997 (89661-3A130) , SPDM in box









2 JZ – GE , VVT ฝาดำ Dual Coil , FC,SPDM in box , A/T 8 สาย JZS155 (89661-3A130) – ยอยสวม , 89661-3A120 – ยอยยาง

34 P (หน้าปลั๊ก) (M) C

		SLT-	SLU-	# 60	# 50	# 40	# 30	# 20	# 10
S 1	IGF			STA	NSW			OCV-	OCV+
S 2	SLT+	VF1	ISC4	ISC3	ISC2	ISC1	IGT1	E1	
	SLU+	KNK2	KNK1		E2	AC2	E02	E01	

22 P (N) B

VC	NC2-	NCO-	SP2-	NE+	NE-
VTA	PIM		SP2+	G2	
VTA2	OX1	NC2+	NCO+	IGT3	IGT2
OIL	HT		THW	THA	E2

16 P (L)

NEO	MREL	W	FPR	
TE1	TRA		EFI+	
ACTQ	KD	FC	EFI-	
SNOW	PRG	ACIS	PSW	SNW1

28 P (K)

TT	L	PWR	SPDM	ACMG	OD2	OD1	EGW
IG.SW	2		TE2		SP1	CCO	
BATT						A/C	ELS2
+B	+B	R		STP	EC	THWO	ELS

4 A/T Solenoid 8 เส้น

E 2 GRAY



OIL (G/R)	SLT+ (P)	SLU+ (G/W)	S1 (L/Y)
E2 (BR)	SLT- (L/B)	SLU- (L/R)	S2 (G/Y)

SP2+ - R SP2- - G NCO+ - L NCO- - Y IG - B/O #10 - R/L #20 - R/Y #30 - R/G #40 - R/W #50 - R #60 - R/B G- - G G2 - W G1 - R NE - B	Oil - Y/B Temp - Y/G A/C Comp - B/W IG - R/L P - G/Y R - R/B N - G/R D - G/W 2 - G/O L - G/B

SP2+	-	L/Y
SP2-	-	R/L
NCO+	-	R
NCO-	-	G
SLT+	-	P
SLT-	-	L/B
SLU+	-	G/W
SLU-	-	L/R
S1	-	L/Y
S2	-	G/Y

IG	-	R/L
P	-	G/W
R	-	W
N	-	G/R
D	-	G
2	-	G/Y
L	-	G/B
STA	-	B
NSW	-	B/W

PWR	-	L/W
OD2	-	O
SPDM	-	V
STP	-	G/W
SP1	-	LG/R
R	-	R/B
2	-	G/Y
L	-	G/B
FC	-	V/Y
ACMG	-	W/G
A/C	-	B/W
THWO-A/C	-	GR/L
ELS1	-	LG
NE+	-	B
NE-	-	W
OCV-	-	Y/B
OCV+	-	W/R
IGT1	-	B/R
IGT2	-	Y
IGT3	-	G
IGF	-	Y/G

2 JZ – GE , VVT ฝาดำ Dual Coil – 1999 , JZS155 Crown
4 A/T 8 เส้น - FC- SPDM in box

34 P (หลังปลั๊ก) , Q

#10 (Y)	#20 (B/R)	#30 (L)	#40 (R)	#50 (W)	#60 (R/L)	SLU- (L/R)	SLN- (L/B)		
OCV+ (W/R)	OCV – (Y/B)			NSW (B/W)	STA (B)			IGF (Y/G)	S1 (L/Y)
	E1 (BR)	IGT1 (B/R)	ISC1 (P/L)	ISC2 (W/L)	ISC3 (Y/R)	ISC4 (LG/B)	VF (LG)	SLN+ (P)	S2 (G/Y)
E01 (W/B)	E02 (W/B)	AC2 (O)	IDL2 (G/B)		KNK1 (B)	KNK2 (GR)	SLU+ (G/W)		

22 P , R

NE- (W)	NE+ (B)	SP2- (R/L)	NCO- (G)	NC2- (Y)	VC (L/Y)
	G2 (L)	SP2+ (L/Y)		PIM (G/W)	VTA1 (Y/G)
IGT2 (Y)	IGT3 (G)	NCO+	NC2+ (L)	OX (W/R)	VTA2 (L/W)
E2 (BR)	THA (Y/B)	THW (R/L)		HT (G/B)	OIL (G/R)

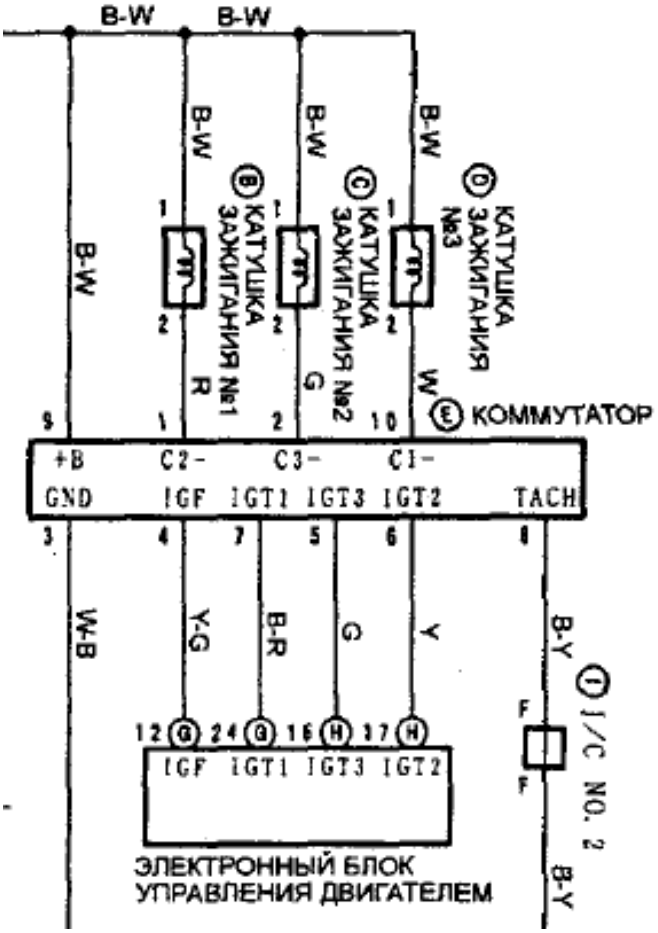
16 P , P

FPR (L/Y)	W (L/B)		MREL (G/O)	NEO (G/R)
EFI+ (P)			TRA (GR/G)	TE1 (R/W)
EFI- (L)	FC (V/Y)		KD (G)	ACTQ (V/G)
SNW1 (R/Y)	PSST (B/L)	ACIS (P/B)	PRG (BR/Y)	SNOW (GR/R)

28 P , O

EGW (V/G)	OD1 (LG/R)	OD2 , - (O)	ACMG (W/G)	SPDM (V)	PWR (L/W)	L (G/B)	TT (LG/B)
CCO (Y/B)			TE2 (W/L)		2 (G/Y)	IGSW (B/L)	
ELS2 (L/R)	A/C (B/W)						BATT (B/Y)
AC (B/W)	THWO (GR/L)	EC (W/B)	STP (G/W)		R (R/B)	+B (B/R)	+B (B/R)

Dual Coil



4 A/T Solenoid 8 เส้น

E 2 GRAY



OIL (G/R)	SLN+ (P)	SLU+ (G/W)	S1 (L/Y)
E2 (BR)	SLN- (L/B)	SLU- (L/R)	S2 (G/Y)

2 JZ – GE , VVT ฝาดำ Dual Coil – 1997 , Crown JZS 155
FC,SPDM in box , A/T 2 ปลั๊ก , kick down ไฟฟ้า

34 P (หลังปลั๊ก) , N

#10 (Y)	#20 (B/R)	#30 (L)	#40 (R)	#50 (W)	#60 (R/L)	SLU- (L/R)	SLN- (L/B)	SLT- (R/B)	SLT+ (B/Y)
OCV+ (W/R)	OCV – (Y/B)			NSW (B/W)	STA (B)		IGF (Y/G)	S1 (L/Y)	
	E1 (BR)	IGT1 (B/R)	ISC1 (P/L)	ISC2 (W/L)	ISC3 (Y/R)	ISC4 (LG/B)	VF (LG)	SLN+ (P)	S2 (G/Y)
E01 (W/B)	E02 (W/B)	AC2	IDL2 (G/B)		KNK1 (B)	KNK2 (GR)	SLU+ (G/W)	S3 (G/B)	

22 P , O

NE- (W)	NE+ (B)	SP2- (R/L)	NCO- (G)	NC2- (Y)	VC (L/Y)
	G2 (L)	SP2+ (L/Y)		PIM (G/W)	VTA1 (Y/G)
IGT2 (Y)	IGT3 (G)	NCO+	NC2+ (L)	OX (W/R)	VTA2 (L/W)
E2 (BR)	THA (Y/B)	THW (R/L)		HT (G/B)	OIL (G/R)

16 P , P

FPR (L/Y)	W (L/B)	MREL (G/O)	NEO (G/R)	
EFI+ (P)		TRA (GR/G)	TE1 (R/W)	
EFI- (L)	FC (V/Y)	KD (G)	ACTQ (V/G)	
SNW1 (R/Y)	PSST (B/L)	ACIS (P/B)	PRG (BR/Y)	SNOW (GR/R)

28 P , M

EGW (V/G)	OD1 (LG/R)	OD2 (O)	ACMG (W/G)	SPDM (V)	PWR (L/W)	L (G/B)	TT (LG/B)
CCO (Y/B)			TE2 (W/L)		2 (G/Y)	IGSW (B/L)	
ELS2 (L/R)	A/C (B/W)						BATT (B/Y)
ELS1 (LG)	THWO (GR/L)	EC (W/B)	STP (G/W)		R (R/B)	+B (B/R)	+B (B/R)

4 A/T Solenoid 8 เส้น

E 2 GRAY



OIL (G/R)	SLN+ (P)	SLU+ (G/W)	S1 (L/Y)
E2 (BR)	SLN- (L/B)	SLU- (L/R)	S2 (G/Y)

A/T Solenoid 2

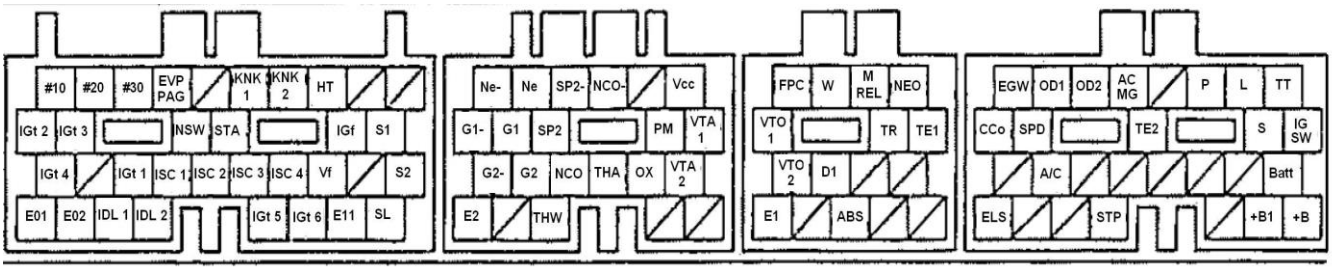
E 2 BLACK



1 - SLT+ (B/Y)
2 - S3 (G/B)
3 - SLT- (R/B)

2 JZ – GTE , Soarer JZZ30 (89661-24280)

ปลั๊กหนา ฝาดำเรียบ Direct Coil – 4 A/T 3 เส้น



34 P (หลังปลั๊ก)

#10 (Y)	#20 (B/Y)	#30 (B)	EVAP	*	KNK1	KNK2	HT (R/L)	*	*
IGT2 (R/L)	IGT3 (L/B)			NSW (B/W)	STA		IGF (R/Y)		S1 (LG)
IGT4 (L/W)	*	IGT1 (R/W)	ISC1 (P/R)	ISC2 (LG/B)	ISC3 (GR/Y)	ISC4 (L/W)	VF	*	S2 (W/R)
E01 (W/B)	E02 (W/B)	IDL1	IDL2		IGT5 (R/GR)	IGT6 (R/B)	E11		SL (G/Y)

22 P , O

NE- (L/Y)	NE+ (L/GR)	SP2-	NCO-	*	VC (L/R)
G1- (O)	G1 (W)	SP2+		PIM (LG/B)	VTA1 (Y)
G2- (W/L)	G2 (O/L)	NCO+	THA (Y/B)	OX (W)	VTA2
E2	*	THW (GR)		*	*

16 P , P

FPC	W (L/Y)	MREL (B/O)		NEO
VTO1		TR		TE1
VTO2	DI	*		*
E1	*	ABS	*	*

28 P , M

EGW	OD1	OD2 (G/R)	ACMG (W)	*	P	L (W)	TT
CCO	SPD (P)		TE2		S (GR)	IG	
*	A/C (L/R)	*	*	*	*	*	BATT (B/Y)
ELS	*	*	STP		*	+B (B/R)	+B (B/R)

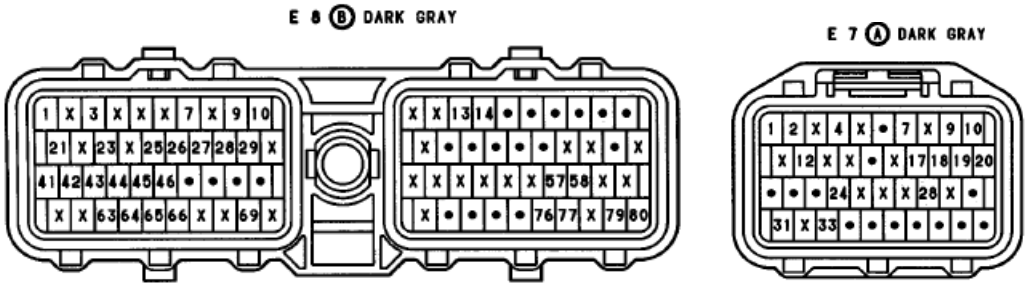
ACIS - VSV for Intake Control
CCO - Exhaust Gas Temp. Sen.
M+ , M- - Exhaust Gas Change Motor
NCO+ , NCO- - O/D Direct Clutch Speed Sen.
EGW - Exhaust Gas Warning Lamp
ACMG - A/C Magnetic Clutch Relay
EVAP - VSV for Evap
DI - Fuel Pump ECU
FPC - Fuel Pump ECU

Fuel Pump ECU

- + B
- FPC (Engine ECU)
- FP
- DI (Engine ECU)
- E1

+ B - B/R	TEMP - Y/G	STA - B	SPD+ - Y	IG - L/R
BATT - B/Y	OIL - Y/B	NSW - B/W	SPD- - R	P - GR
IG - B/O	ELS - R/Y	ST - B	+B - L/R	R - R/B
A/C - L/R	S1 - LG	STP - G/W		N - L
ACMG - W	S2 - W/R	FP - G		D - G/W
SP1 - P	SL - R/L	W - L/Y		2 - G
OD2 - GR/R	FPC - R/G	IG- - B		L - W
COM - L	DI - P	PWR - G/O		

2 JZ – GE , Lexus SC300 – 97 , 4 A/T 3 เส้น



40 P ช่องซ้าย (หลังปลั๊ก) -B

				# 60 (L/R)	# 50 (W)	# 40 (B/R)	# 30 (BR)	# 20 (W/L)	# 10 (Y)
	ISC4 (L/W)	ISC3 (G/Y)	ISC2 (LG/B)	ISC1 (V/R)	FPU (G/R)			ACIS (G/R)	
					IGF (R/Y)	IGT (W/G)			
	HT2 (Y/R)	HT1 (Y/L)	EVAP (G/B)	EGR	NSW (B/W)	STA (B)		E02 (W/B)	E01 (W/B)

40 P ช่องกลาง -B

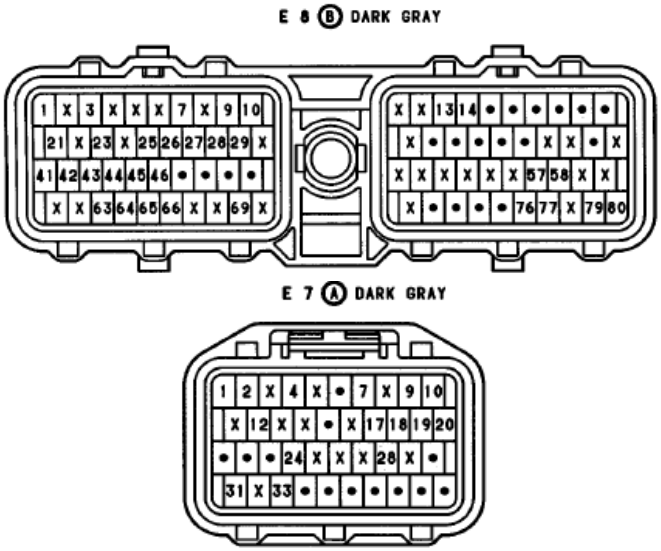
		SP2- (R/Y)				G- (B)	S3 (R/L)	S2 (R/W)	S1 (LG)
		SP2+ (L/Y)		G2 (Y)	G1 (R)	NE (L)	VF2	VF1	
VC (L/R)	VTA2 (L/R)	VTA1 (Y)	THW (LG)	THA (Y/B)	THG	OX2 (R/L)	OX1 (W)	KNK2 (W)	KNK1 (W)
		IDL2 (BR)	IDL1 (R)	E2	KS (Y/G)			E1 (BR)	

40 P ช่องขวา - A

IGSW (B/O)	SP1 (P)		STP (G/W)		W			2 (G)	L (W)
	OD1 (BR/Y)			ELS (R/Y)		TT	PWR (G/O)	TE2	TE1 (LG)
DI (P)	FPC (R/G)	ACMG (W)	MREL (B/Y)				OD2 (GR/R)		OX3
+ B (B/R)		BATT (B/Y)	A/C (L/R)	PSST (LG/R)	HT3	TR	NEO	VTO2	VTO1

2JZ – GE (89661 –33750)

ปลั๊กน๊อตขัน ยอยยาง NoSP2 ใช้ VSS แทน SP2 – A/T 8 สาย



40 P ช่องซ้าย (หน้าปลั๊ก) B

E01	E02		STA	NSW		EVP			HT
PMC		IGF							
VSV1	ACIS				ISC1	ISC2	ISC3	ISC4	SLT+
#10	#20	#30	#40	#50	#60	SLU-	SLN-	SLT-	

40 P ช่องกลาง B

	E1				E2	IDL1	IDL2	PIM	
KNK1	KNK2	OX			THA	THW	VTA1	VTA2	VC
	VF1	VF2	NE+	G1+	G2+	OIL	SP2+		NCO +
S1	S2		NE-	G1-	G2-		SP2-		NCO-

40 P ช่องขวา A

VTO1	VTO2	NEO	TRC		PSW	A/C	BATT	+B	+B
	CCO	OD2				MREL	ACMG	FPC	D1
TE1	TE2	PWR	TT		ELS			OD1	AD
L	2		R	W	EGW	STP	KD	SP1	IG

2JZ – GE (89661 –30510) JZS 147

ปลั๊กน๊อตขัน ยอยยาง ป้ายม่วง SPD 2 สาย – A/T 6 สาย

40 P ช่องซ้าย (หน้าปลั๊ก) B

E01 (W/B)	E02 (W/B)		STA (B/W)	NSW (B)		EVAP (BR/Y)			
		IGF (G/Y)	IGT (G/W)						
	ACIS (BR/R)				ISC1 (Y)	ISC2 (Y/R)	ISC3 (Y/G)	ISC4 (Y/B)	
#10 (R/L)	#20 (R/Y)	#30 (R/G)	#40 (R/W)	#50 (R)	#60 (R/B)	SLU- (B)	SLN- (GR)		

40 P ช่องกลาง B

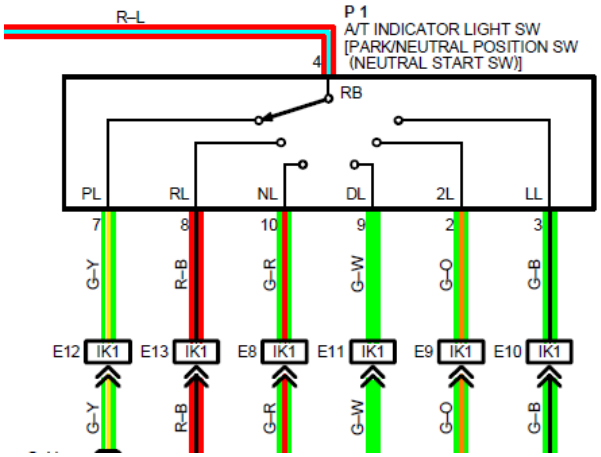
	E1 (BR)				E2 (BR)	IDL1 (P/B)	IDL2 (R/B)	PIM (Y/G)	
KNK1 (R)	KNK2 (GR)	OX1 (B)	OX2 (W)	THG (L/O)	THA (L/W)	THW (P)	VTA1 (Y/R)	VTA2 (Y/B)	VC (L/R)
	VF1 (LG)	VF2 (G/Y)	NE (B)	G1 (R)	G2 (W)		SP2+ (R)		NCO+ (L)
S1 (R)	S2 (R/L)		G- (G)			E1 (BR)	SP2- (G)		NCO- (Y)

40 P ช่องขวา A

					PSST (G/Y)	A/C (B/W)	BATT (W/L)	+B (B/R)	+B (B/R)
		OD2 (B/R)				MREL (G/O)	ACMG (W)	FPC (G/R)	DI (LG/R)
TE1 (L/O)	TE2 (L/B)	PWR (L/W)	TT (LG)		ELS (LG/B)			OD1 (V)	
L (G/B)	2 (G/O)		R (R/B)	W (B/Y)	EGW	STP (G/W)		SP1 (V/W)	IGSW (B/O)

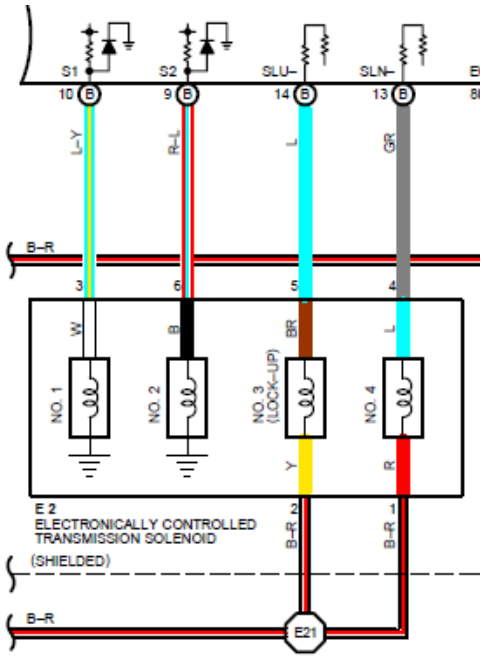
A/T Position Sw.



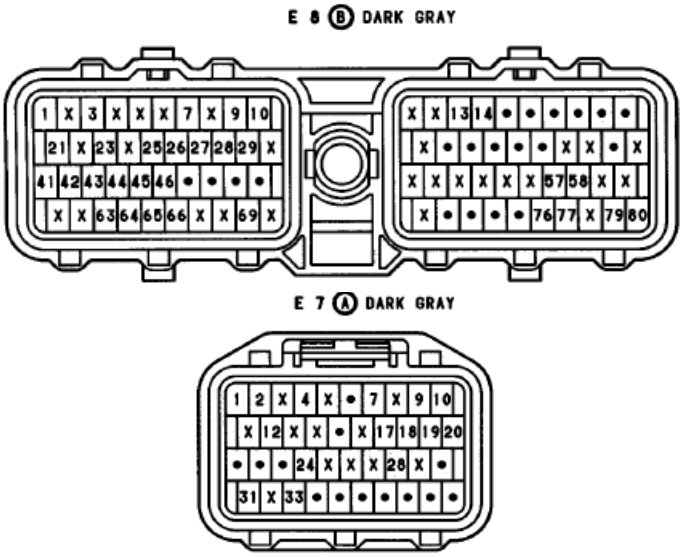


A/T Solenoid 6สาย





2JZ – GE , ฝาดำ (89661-3A180) ป้ายดำ, Aristo JZS147
(นัตขัน , ยอยยาง , ไม่มีSP2)A/T 6 สาย , 5 สาย



40 P ช่องซ้าย (หน้าปลั๊ก) B

E01 (W/B)	E02 (W/B)		STA (B/R)	NSW (B/R)		EVP (B/Y)			
		IGF (Y/G)	IGT (B/R)						
	ACIS (R/B)				ISC1 (Y)	ISC2 (Y/R)	ISC3 (Y/G)	ISC2 (G/B)	
#10 (R/L)	#20 (Y)	#30 (G)	#40 (W)	#50 (R)	#60 (B/R)		SLN- (GR)		

40P ช่องกลาง B

	E1 (BR)				E2 (BR)	IDL1 (G)	IDL2 (BR)	PIM (L)	
KNK1 (R)	KNK2 (GR)	OX (B)			THA (R)	THW (R/L)	VTA1 (Y)	VTA2 (L/Y)	VC (L/Y)
	VF1 (G/R)	VF2 (G/Y)	NE (B)	G1 (R)	G2 (W)				NCO+ (L)
S1 (R/L)	S2 (R)	SLU- (B/R)	G- (G)			E1 (BR)			NCO- (Y)

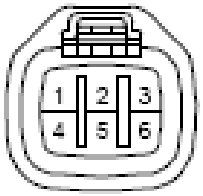
40 P ช่องขวา A

VTO1	VTO2	NEO	TRC		PSW	A/C	BATT	+B	+B
	CCO	OD2				MREL	ACMG	FPC	D1
TE1	TE2	PWR	TT		ELS			OD1	AD
L	2		R	W	EGW	STP	KD	SP1	IG

OIL - Y , TEMP - Y/G
SPD+ - L/R , SPD- - L/Y , IG - R/L
A/C Comp - B/W

A/T Solenoid 6 สาย , 5 สาย

I 1 BLACK

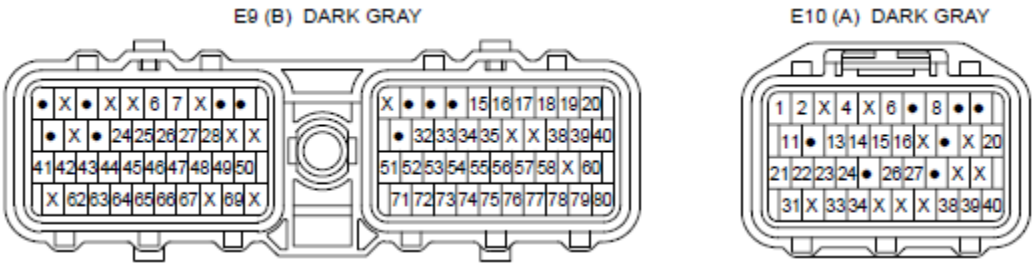


+B (B/R)	+B (B/R)	S1 (R)
SLN- (GR)	SLU- (B/R)	S2 (R/L)

+B (B/R)	@	S1 (R)
SLN- (GR)	SLU- (B/R)	S2 (R/L)

OIL - Y/B Temp - Y OIL Level - Y/R SPD+ - L/B SPD- - L/R SP1 - V/W IG- - B A/C Compressor - L/W	P - LG/Y R - R/B N - LG/R D - LG/W 2 - LG/O L - LG/B IG - R/L

2 JZ – GTE , Aristo JZS147 - ฝาดำนูน , Direct Coil – Twin Turbo
4 A/T 8 เส้น (89661-30560)- MAP Sen.



B - 40 P ช่องซ้าย (หลังปลั๊ก)

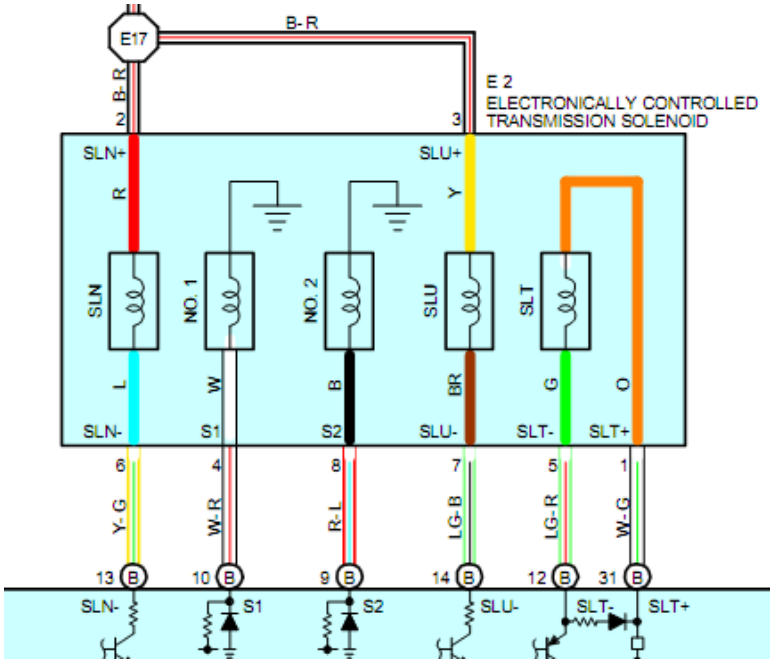
#10 (R/L)	#20 (R/Y)	#30 (R/G)	#40 (R/W)	#50 (R)	#60 (R/B)	SLU- (B)	SLN- (GR)	SLT- (L)	*
VSV1 (B/W)	VSV2 (BR/R)	VSV3 (BR/W)	*	*	ISC1 (Y)	ISC2 (Y/R)	ISC3 (Y/G)	ISC4 (Y/B)	SLT+ (R)
PMC (B)	*	IGF (G/Y)	IGT1 (G/W)	IGT2 (L/Y)	IGT3 (L/O)	IGT4 (L/W)	IGT5 (L/R)	IGT6 (L)	*
E01 (W/B)	E02 (W/B)	*	STA (B/W)	NSW (B/Y)	*	EVAP (BR/Y)	*	*	HT (B/O)

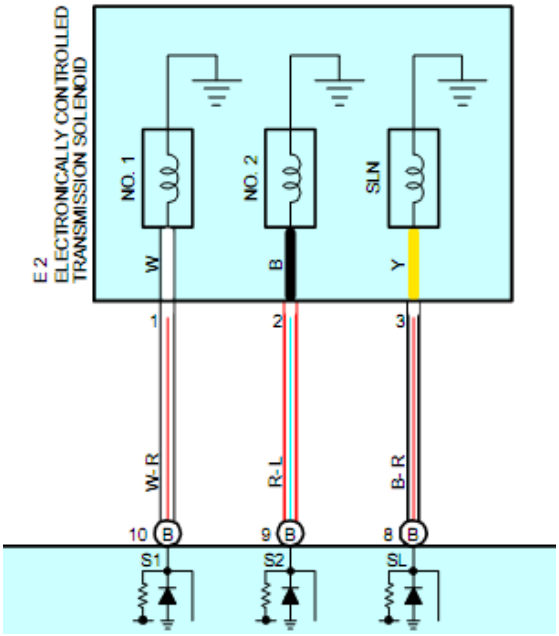
B - 40 P ช่องกลาง

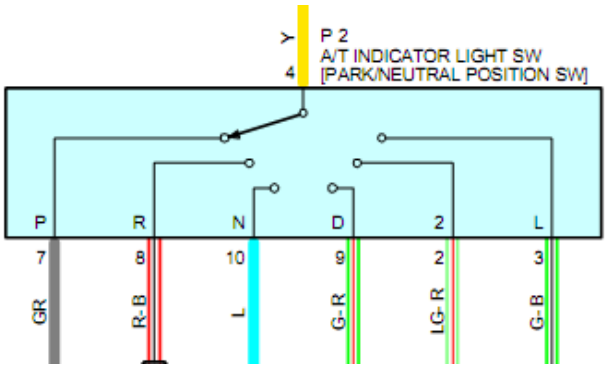
S1 (R)	S2 (R/L)	*	NE- (W)	G1- (W)	G2- (G)	E11 (BR)	SP2- (G)	*	NCO- (Y)
*	VF1 (G/R)	*	NE+ (B)	G1+ (B)	G2+ (R)	OIL	SP2+ (R)	*	NCO+ (L)
KNK1 (GR)	KNK2 (B)	OX (W)	*	*	THA (R)	THW (R/L)	VTA1 (Y)	VTA2 (Y/B)	VCC (L/R)
*	E1 (BR)	*	*	*	E2 (BR)	IDL1 (G)	IDL2 (R/B)	PIM (L)	*

A - 40 P ช่องขวา

L (G/B)	2 (G/O)	*	R (R/B)	W (B/Y)	EGW	STP (G/W)	KD	SP1 (V/W)	IG (B/O)
TE1 (L/W)	TE2 (L/B)	PWR (L/W)	TT (B/R)	TRI	ELS	*	*	OD1	AD
TRO	CCO	OD2 (B/R)	*	*	*	MREL (G/O)	ACMG (W)	FPC (G/R)	DI (LG/R)
VTO1	VTO2	NEO	TR2	*	*	A/C (B)	BATT (W/R)	+B1 (B/R)	+B (B/R)


E17
B-R
B-R
2
3
E 2
ELECTRONICALLY CONTROLLED
TRANSMISSION SOLENOID
SLN+
R
SLU+
Y
SLN
NO. 1
NO. 2
SLU
SLT
L
W
B
BR
G
O
SLN-
S1
S2
SLU-
SLT-
SLT+
6
4
8
7
5
1
Y-G
W-R
R-L
LG-B
LG-R
W-G
13
10
9
14
12
31
SLN-
S1
S2
SLU-
SLT-
SLT+


E 2
ELECTRONICALLY CONTROLLED
TRANSMISSION SOLENOID
NO. 1
NO. 2
SLN
W
B
Y
1
2
3
W-R
R-L
B-R
10
9
8
S1
S2
SL


Y
4
P 2
A/T INDICATOR LIGHT SW
[PARK/NEUTRAL POSITION SW]
P
R
N
D
2
L
7
8
10
9
2
3
GR
R-B
L
G-R
LG-R
G-B

2 JZ – GTE , Supra 96 (JZA80) , 4 A/T 8 เส้น – Air Flow



B - 40 P ช่องซ้าย (หลังปลั๊ก)

#10 (R/L)	#20 (R/Y)	#30 (R/G)	#40 (R/W)	#50 (R)	#60 (R/B)	SLU- (LG/B)	SLN- (Y/G)	SLT- (LG/R)	*
VSV1 (G/B)	VSV2 (G/Y)	VSV3 (G/R)	*	*	ISC1 (V/Y)	ISC2 (G/W)	ISC3 (G/O)	ISC4 (R/G)	SLT+ (W/G)
PMC (L/W)	*	IGF (R/Y)	IGT1 (R/W)	IGT2 (B/O)	IGT3 (GR/B)	IGT4 (GR/G)	IGT5 (P/B)	IGT6 (L/O)	*
E01 (BR)	E02 (BR)	*	STA (B)	NSW (B/W)	EGR (P)	EVAP (V)	FPU (W/L)	HT2 (BR/W)	HT (B/L)

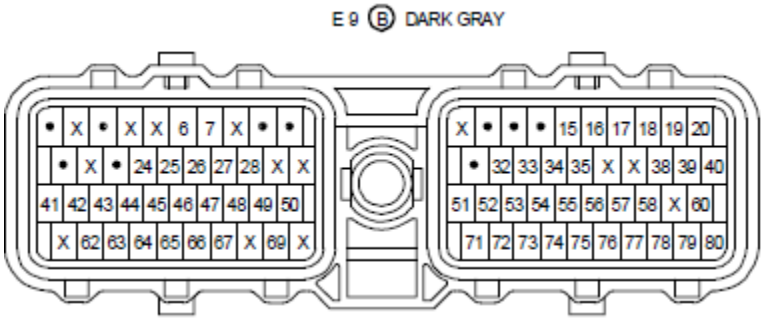
B - 40 P ช่องกลาง

S1 (W/R)	S2 (R/L)	*	NE- (BR)	G1- (O)	G2- (L)	*	SP2- (G)	*	NCO- (Y)
*	VF1 (LG)	E21 (BR)	NE (B/R)	G1 (W)	G2 (B/W)	OIL (O)	SP2+ (R)	*	NCO+ (L)
KNK1 (W)	KNK2 (W)	OX1 (W)	OX2 (R/L)	THG (BR/Y)	THA (P/L)	THW (L/Y)	VTA1 (Y)	VTA2 (Y/L)	VCC (L/R)
*	E1 (BR)	*	*	VG (Y/R)	E2 (BR/B)	IDL1 (R)	IDL2 (GR/R)	PIM (B/Y)	*

A - 40 P ช่องขวา

L (G/B)	2 (LG/R)	*	R (R/B)	W (L/B)	*	STP (G/W)	KD (Y)	SP1 (P)	IG (B/O)
TE1 (Y/L)	TE2 (P/G)	MANU (G/Y)	TT (GR/R)	TACH (B/W)	ELS (R/Y)	TRC+ (O)	TRC- (W/R)	OD1 (BR/B)	ABS (Y/R)
*	*	OD2 (V/G)	EFI+ (B)	EFI- (W)	M1 (W/L)	MREL (GR)	ACMG (W/G)	FPC (V/W)	DI (G)
*	*	NEO (P/L)	*	*	*	A/C (L/R)	BATT (B/Y)	*	+B (B/R)

2 JZ – GTE , Supra 97 (JZA80) ปีสุดท้าย (89661-14810)
4 A/T 8 เส้น – Air Flow





B - 40 P ช่องซ้าย

NCO- (Y)	*	SP2- (G)	*	*	G- (O)	NE- (BR)	*	S2 (R/L)	S1 (W/R)
NCO+ (L)	*	SP2+ (R)	OIL (O)	G2 (B/W)	G1 (W)	NE+ (B/R)	E2G (BR)	*	*
VC (L/R)	VTA2 (Y/L)	VTA1 (Y)	THW (L/Y)	THA (P/L)	THG (BR/Y)	OXS (R/L)	OX1 (W)	KNK2 (W)	KNK1 (W)
*	PIM (B/Y)	IDL2 (GR/R)	IDL1 (R)	E2 (W/B)	VG (Y/R)	EFIF (P)	*	E1 (BR)	*

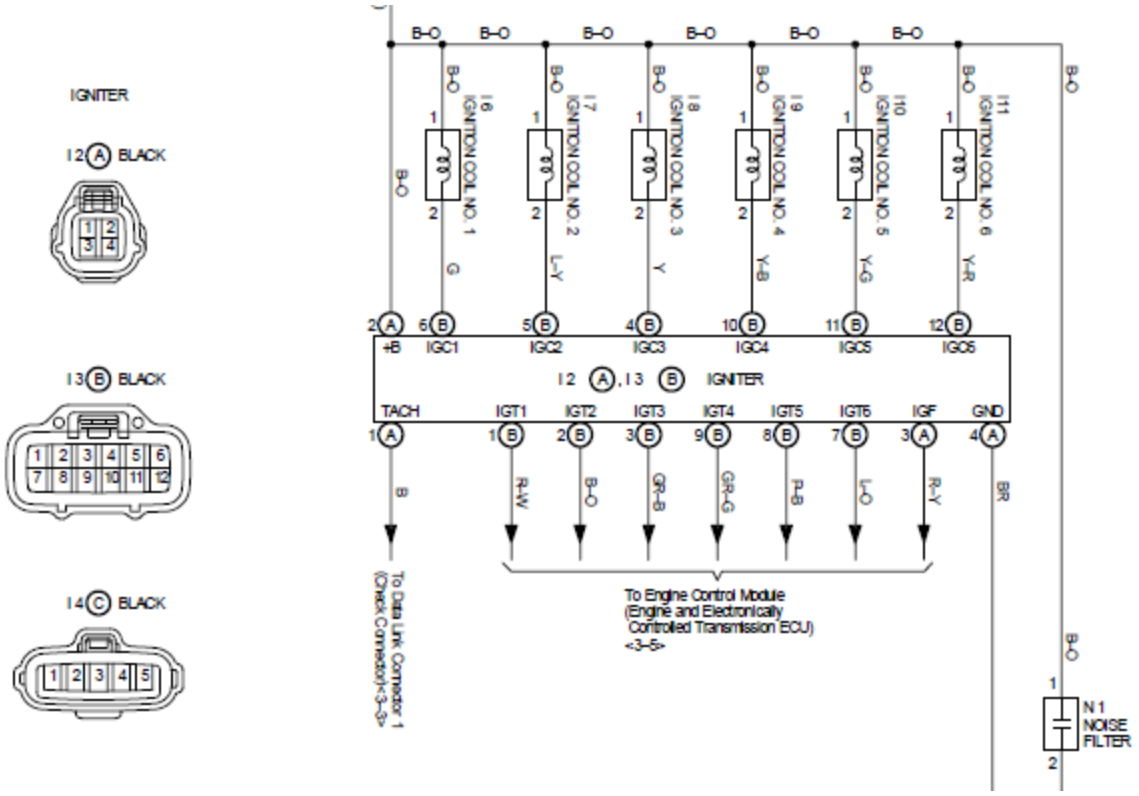
B - 40 P ช่องกลาง

*	SLT- (LG/R)	SLN- (Y/G)	SLU- (LG/B)	#60 (R/B)	#50 (R)	#40 (R/W)	#30 (R/G)	#20 (R/Y)	#10 (R/L)
SLT+ (W/G)	ISC4 (R/G)	ISC3 (G/O)	ISC2 (G/W)	ISC1 (V/Y)	*	*	VSV3 (G/R)	VSV2 (G/Y)	VSV1 (G/B)
FAIL (W/L)	IGT6 (R)	IGT5 (L)	IGT4 (B/R)	IGT3 (LG)	IGT2 (W/R)	IGT1 (R/W)	IGF (R/Y)	*	VSV4 (L/W)
HT1 (B/L)	HTS (BR/W)	FPU (W/L)	EVAP (V)	EGR (P)	NSW (B/W)	STA (B)	E03 (BR)	E02 (BR)	E01 (BR)

A - 40 P ช่องขวา

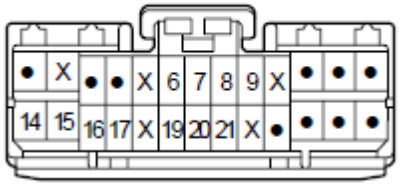
IGSW (B/O)	SP1 (V)	*	STP (G/W)	*	W (L/B)	R (R/B)	SDL (G)	2 (LG/R)	L (G/B)
ABS (Y/R)	OD1 (BR/B)	ETC- (BR)	ETC+ (Y)	ELS (R/Y)	TACH (B/W)	*	MANU (G/Y)	*	TE1 (L)
DI (G)	FPC (V/W)	ACMG (W/G)	MREL (GR)	MI (W/L)	EFI- (W)	EFI+ (B)	OD2 (V/G)	*	*
+B (R/B)	*	BATT (B/Y)	A/C (L/R)	*	*	*	NEO (P/L)	VTA2 (G/O)	VTO1 (V/Y)

Ignitor

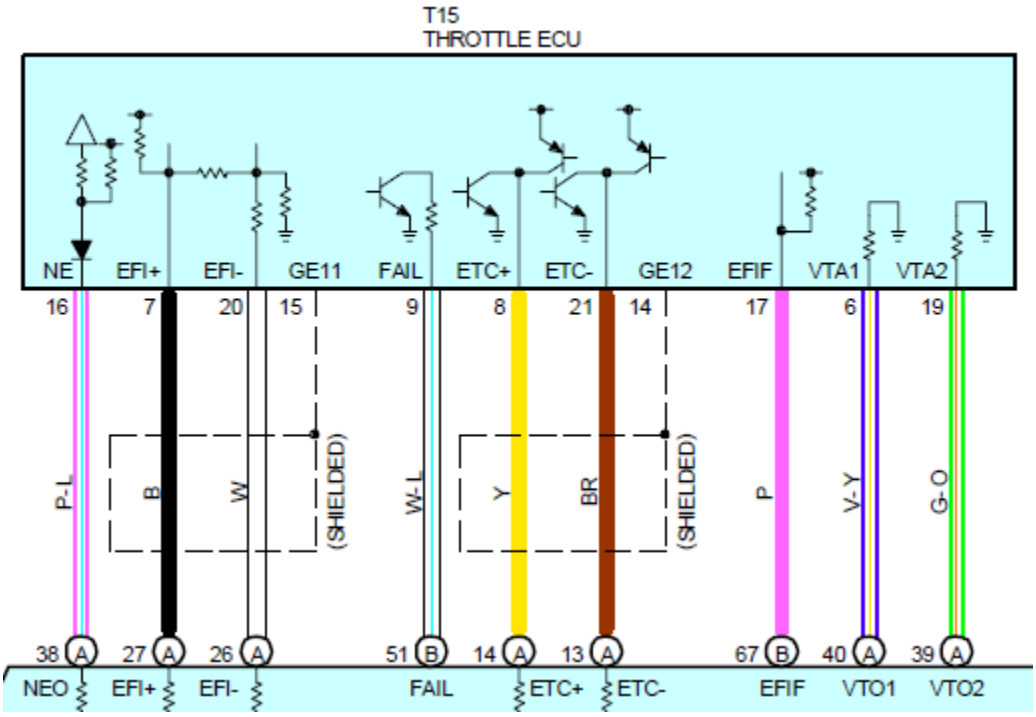


Throttle ECU

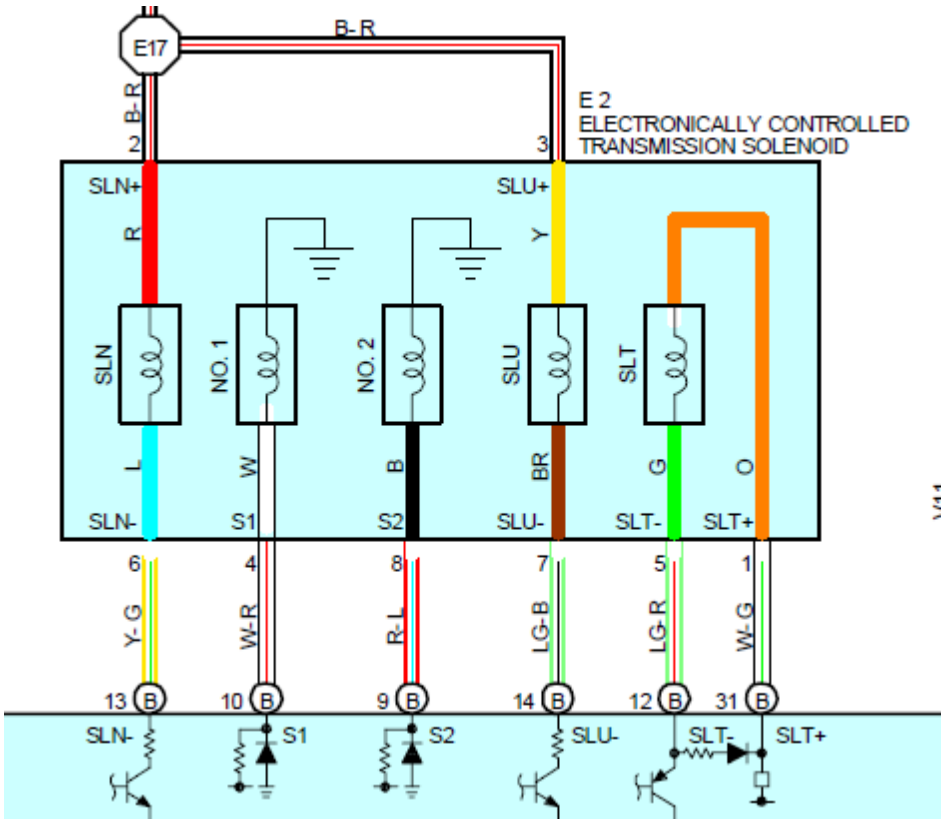
T15



1			14	-	GE02
2			15	-	GE01
3			16	-	NEO (P/L)
4			17	-	EFIF (P)
5			18		
6	-	VTA1 (V/Y)	19	-	VTA2 (G/O)
7	-	EFI+ (B)	20	-	EFI- (W)
8	-	ETC+ (Y)	21	-	ETC- (BR)
9	-	FAIL (W/L)	22		
10			23		
11			24		
12			25		
13			26		


T15
THROTTLE ECU
NE
EFI+
EFI-
GE11
FAIL
ETC+
ETC-
GE12
EFIF
VTA1
VTA2
16
7
20
15
9
8
21
14
17
6
19
P-L
B
W
(SHIELDED)
W-L
Y
BR
(SHIELDED)
P
V-Y
G-O
38 A
27 A
26 A
51 B
14 A
13 A
67 B
40 A
39 A
NEO
EFI+
EFI-
FAIL
ETC+
ETC-
EFIF
VTO1
VTO2

A/T Sol.


E17
B-R
2
B-R
3
E 2
ELECTRONICALLY CONTROLLED
TRANSMISSION SOLENOID
SLN+
R
SLU+
Y
SLN
NO. 1
NO. 2
SLU
SLT
L
W
B
BR
G
O
SLN-
S1
S2
SLU-
SLT-
SLT+
6
4
8
7
5
1
Y-G
W-R
R-L
LG-B
LG-R
W-G
13 B
10 B
9 B
14 B
12 B
31 B
SLN-
S1
S2
SLU-
SLT-
SLT+

2 JZ – GE VVT , JZS155 Crown (89661-3A330)

ฝาดำ , คันเร่งไฟฟ้า (1999) 4 A/T 10 เส้น, คันเกียร์สไลด์

31P (G) (หน้าปลั๊ก)

# 30 (L)	# 40 (R)		# 50 (W)	# 60 (R/L)	ACIS (P/B)	-	M- (G)	M+ (R)	ME01 (BR)		
G2 (Y)	IGT1 (B/R)	IGT2 (Y)	IGT3 (G)	-	-	PSST (B/L)	OCV – (Y/B)	OCV+ (W/R)	CL- (L)	CL+ (G/B)	E01 (W/B)
NE- (W)	NE+ (B)	NSW (B/W)	IGF (Y/G)	-		KNK2 (GR)	KNK1 (B)		-	GE01 (GR)	E02 (W/B)

24 P (F)

-	VC (L/Y)		-	HT (G/B)	# 10 (Y)	# 20 (B/R)	PRG (P/L)	
-	PIM (G/W)	-	-	OX (W)	ELS2 (L/R)	THW (R/L)	VPA (G/B)	VPA2 (L/W)
E1 (BR)	E2 (BR)	-	3 (G/Y)	2 (G/B)		THA (Y/B)	VTA (Y/G)	VTA2 (R/B)

17 P (C)

S1 (L/W)	S2 (G/Y)	-	NCO+ (R)	SP2+ (L/Y)	-
SLU+ (G/W)	SLN+ (P)	SLT+ (B/Y)	NCO- (G)	SP2- (R/L)	-
SLU- (L/R)	SLN- (L/B)	SLT- (R/B)		PI (Y)	OIL (G/R)

28 P (H)

AC (B/W)	STA (B)	THWO (GR/L)	-	TC (Y/G)	STP (G/W)		-	-	-
-	ST1- (B/O)	PWR (L/W)	ACMG (W/G)	-	-	R (R/B)	D (G)	-	-
-	AC2 (G/O)	-		CCS (G/R)	-	SPDM (V)	ELS (YG)	-	OD2- (O)

22 P (E)

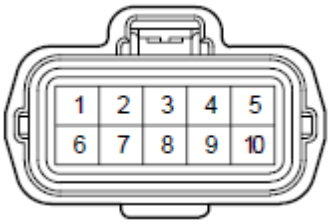
BATT (B/Y)	SNW (GR/R)	TC (R/Y)	FPR (L/Y)	FC (V/Y)		W (L/B)	+BM (LG)
+ B2 (B/R)	IGSW (B/L)	MREL (G/O)	SIL (W)	-	TRC+ (L)	EFI+ (L/W)	NEO (L/R)
+ B1 (B/R)	-		-	-	TRC- (LG)	EFI- (O)	EC (W/B)

A/T Position Sw.

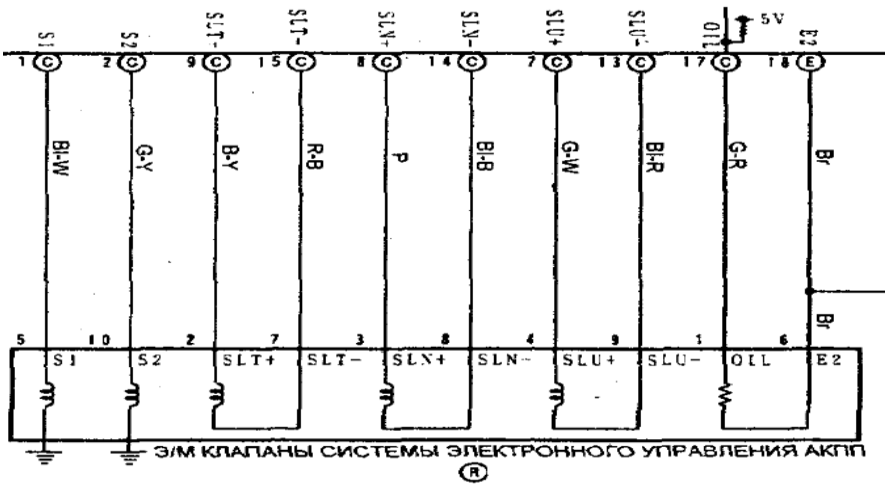


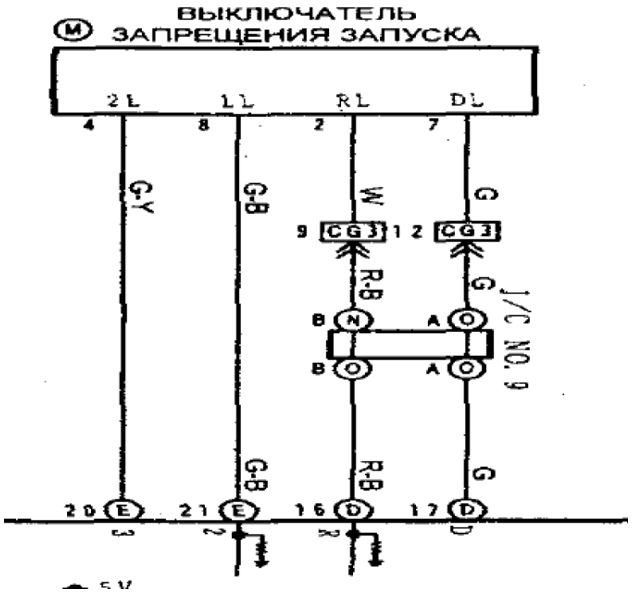
P (G/W)	R (W)	IG (R/L)	2 (G/Y)	N (G/R)
STA (B)	D (G)	L (G/B)	NSW (B/W)	

A/T Solenoid (10 เส้น)



OIL (G/R)	SLT+ (B/Y)	SLN+ (P)	SLU+ (G/W)	S1 (L/W)
E2 (BR)	SLT- (R/B)	SLN- (L/B)	SLU- (L/R)	S2 (G/Y)




ВЫКЛЮЧАТЕЛЬ
ЗАПРЕЩЕНИЯ ЗАПУСКА
2L
1L
RL
DL
4
8
2
7
G-Y
G-B
W
G
9
CG3
12
CG3
R-B
G
B
N
A
O
B
O
A
O
J/C NO. 9
G-B
R-B
G
20
E
21
E
16
D
17
D
3
2
1
2

2 JZ – GE VVT , JZS171 Crown
คันเร่งไฟฟ้า 4 A/T 10 เส้น, คันเกียร์สไลด์ , Air Flow

31P (F) (หน้าปลั๊ก)

# 30 (L)	# 40 (L/R)		# 50 (W)	# 60 (R)	ACIS (Y/G)	-	M- (W)	M+ (B)	ME01 (BR)	
G2 (Y)	IGT1 (L/R)	IGT2 (L)	IGT3 (V)	-	-	-	OCV – (Y/B)	OCV+ (W/R)	CL- (P)	CL+ (R)	E01 (W/B)
NE- (W)	NE+ (B)	-	IGF (G/W)	RL (B/R)		KNK2 (W)	KNK1 (B)		LCK1 (GR)	GE01	E02 (W/B)

24 P (E)

E03 (BR)	VC (L/Y)		HT2A (V)	HT1A (B/L)	# 10 (Y)	# 20 (R/W)	PRG (B/Y)	
MOPS (LG/B)	PSP (R/W)	VG (R/L)	OX2A (W)	OX1A (B)	N (G/R)	THW (B/R)	VPA (G/W)	VPA2 (P)
E1 (BR)	E2 (BR)	EVG (GR)	2 (G/Y)	L (G/B)		THA (Y/B)	VTA (R/Y)	VTA2 (L/B)

17 P (D)

S1 (L/W)	S2 (G/Y)	-	NCO+ (R)	SP2+ (L/Y)	-
SLU+ (G/W)	SLN+ (P)	SLT+ (B/Y)	NCO- (G)	SP2- (R/L)	RDEF (G/B)
SLU- (L/R)	SLN- (L/B)	SLT- (R/B)		-	OIL (G/R)

28 P (C)

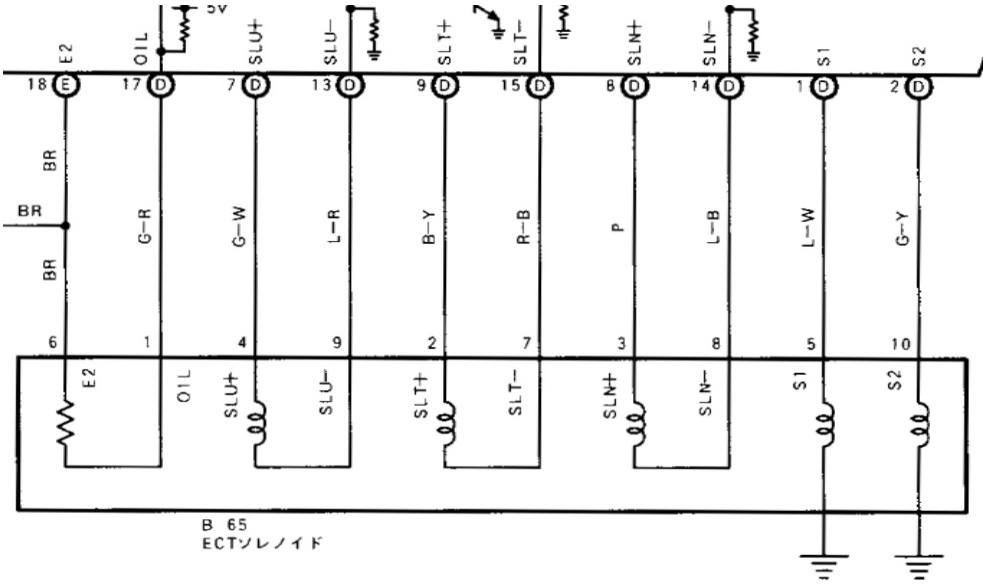
-	STA (G)	-	-	TC (V)	STP (V)		-	-	-
TAM (V/W)	-	-	ACMG (B/Y)	-	OD2 (O)	R (R/B)	D (LG)	-	-
TACH (W)	PRE (L/B)	-		-	-	-	P (R/W)	MPX2 (GR/B)	MPX1 (GR/B)

22 P (A)

BATT (B/Y)	-	-	FPR (B/R)	FC (G/Y)		W (R/L)	+BM (P)
+ B2 (B/R)	IGSW (B/W)	MREL (B)	SIL (R)	-	TRC+ (BR)	ENG+ (B)	NEO (G/R)
+ B1 (B/R)	-		-	-	TRC- (Y)	ENG- (W)	EC (W/B)

IG (B/W) , P (R/W) , R (R/B) , N (G/R) , D (LG) , 2 (G/Y) , L (G/B)

A/T Solenoid 10 เส้น



2 JZ – GE VVT , JZX101 Mark 2

ฝาดำ , คันเร่งไฟฟ้า (1999)4 A/T 10 เส้น, คันเกียร์สไลด์

31P (G) (หน้าปลั๊ก)

# 30 (G)	# 40 (R/W)		# 50 (L/R)	# 60 (R/B)	ACIS (Y/G)	-	M- (G)	M+ (R)	ME01 (BR)		
G2 (R)	IGT1 (W/G)	IGT2 (P)	IGT3 (L/B)	-	-	PSST (L/Y)	OCV – (W/L)	OCV+ (W/R)	CL- (L)	CL+ (G/B)	E01 (W/B)
NE- (L)	NE+ (B/W)	NSW (B/W)	IGF (Y/G)	-		KNK2 (GR)	KNK1 (B)		-	GE01 (GR)	E02 (W/B)

24 P (F)

-	VC (B/Y)		-	HT (G/B)	# 10 (R)	# 20 (L)	PRG (G/R)	
-	PIM (W/L)	-	-	OX (W)	ELS2 (G/O)	THW (L/Y)	VPA (Y/G)	VPA2 (L/W)
E1 (BR)	E2 (BR)	-	3 (G)	2 (G/B)		THA (R/W)	VTA (Y/B)	VTA2 (G/W)

17 P (C)

S1 (L/W)	S2 (G/Y)	-	NCO+ (L)	SP2+ (G)	-
SLU+ (G/W)	SLN+ (P)	SLT+ (B/Y)	NCO- (Y)	SP2- (R)	-
SLU- (L/R)	SLN- (L/B)	SLT- (R/B)		PI (Y)	OIL (G/R)

28 P (D)

AC (L/R)	STA (B/W)	THWO (G/R)	-	TC (Y/G)	STP (G/W)		-	-	-
-	ST1- (B/O)	PWR (L/W)	ACMG (R/L)	-	-	R (R/B)	D (G)	-	-
-	AC2 (R/Y)	-		CCS (G/R)	-	SPDM (V)	ELS (YG)	-	OD2 (O)

22 P (D)

BATT (B/Y)	SNW (GR/R)	TC (Y/R)	FPR (W/L)	FC (L/B)		W (GR/L)	+BM (R/Y)
+ B2 (B/R)	IGSW (GR/L)	MREL (R/Y)	SIL (R)	-	TRC+ (L)	EFI+ (L/W)	NEO (L/R)
+ B1 (B/R)	-		-	-	TRC- (LG)	EFI- (O)	EC (W/B)

2 JZ – GE VVT , JCE10W Altezza

ฝาดำ , คันเร่งไฟฟ้า , A/T 12 เส้น+ - (2WD) , Air Flow Sen.

31P (O) (หน้าปลั๊ก)

# 30 (G)	# 40 (R/W)		# 50 (L/R)	# 60 (B/W)	ACIS (Y/G)	-	M- (R)	M+ (W)	ME01 (BR)			
G2 (G)	IGT1 (GR/B)	IGT2 (B)	IGT3 (B/Y)	L (G/Y)	-	-	OCV – (Y/B)	OCV+ (R/Y)	CL- (Y)	CL+ (R/W)	E01 (W/B)	
NE- (L)	NE+ (B/W)	-	IGF (B/L)	RL (L/R)		KNK2 (W)	KNK1 (B)		LCK1 (W/L)	GE01 (GR)	E02 (W/B)	

24 P (Q)

E03 (BR)	VC (L/Y)		HT2A (G/B)	HT1A (Y/GR)	# 10 (R)	# 20 (L)	PRG (GR)	
MOPS (GR)	PSP (V)	VG (G/B)	OX2A (B)	OX1A (W)	N (G/R)	THW (R)	VPA (Y/G)	VPA2 (L/W)
E1 (BR)	E2 (BR)	EVG (GR)	3 (G/W)	2 (Y/G)		THA (L/B)	VTA (W/R)	VTA2 (G/Y)

17 P (S)

S1 (Y)	S2 (G/Y)	S3 (W/L)	NCO+ (R)	SP2+ (L/Y)	S4 (B/R)
SLU+ (G/W)	SLN+ (Y/R)	SLT+ (B/Y)	NCO- (G)	SP2- (R/L)	-
SLU- (L/R)	SLN- (R/W)	SLT- (R/B)		-	OIL (GR)

28 P (R)

AC (L/R)	STA (B)	-	SFTU (GR/R)	TC (Y/G)	STP (G/W)		4 (LG/B)	-	-
TAM (LG/R)	-	-	ACMG (L/W)	SFTD (GR/G)	-	R (R/B)	D (GR/B)	-	-
TACH (B)	PRE (L/Y)	-		-	-		P (G)	MPX2 (L)	MPX1 (O)

22 P (N)

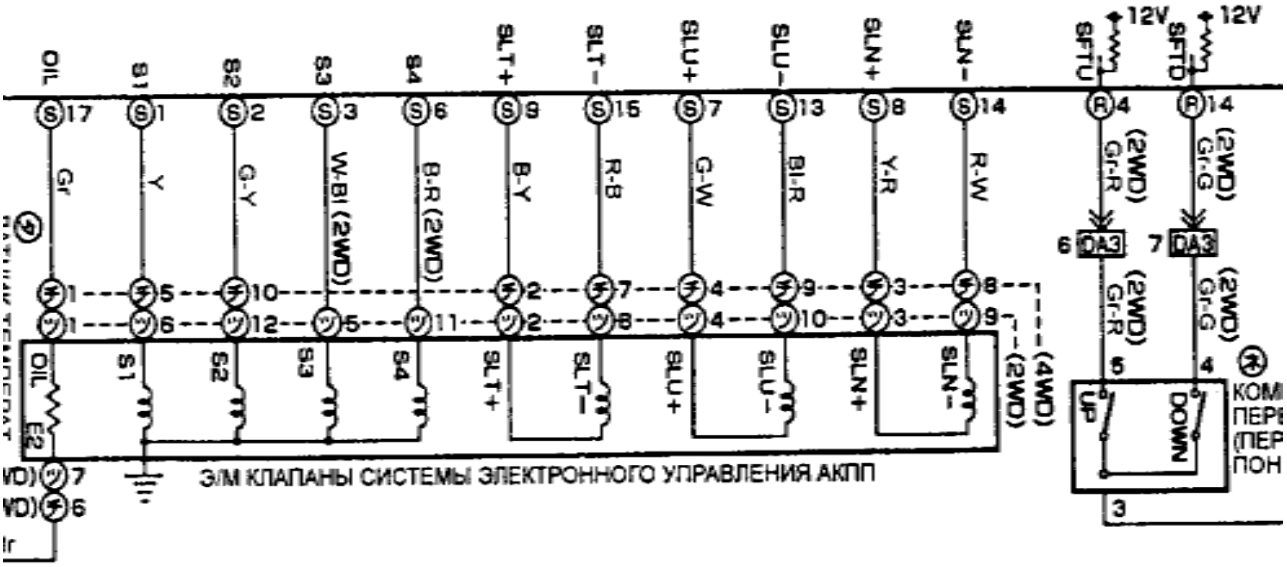
BATT (B/Y)	SNW (GR/R)	TC (Y/R)	FPR (G/R)	FC (G/Y)		W (R/L)	+BM (L/W)
+ B2 (B/R)	IGSW (B/O)	MREL (B/O)	SIL (W)	-	TRC+ (R/Y)	ENG+ (L/B)	NEO (G)
+ B1 (B/R)	-		-	-	TRC- (W/G)	ENG- (P)	EC (W/B)

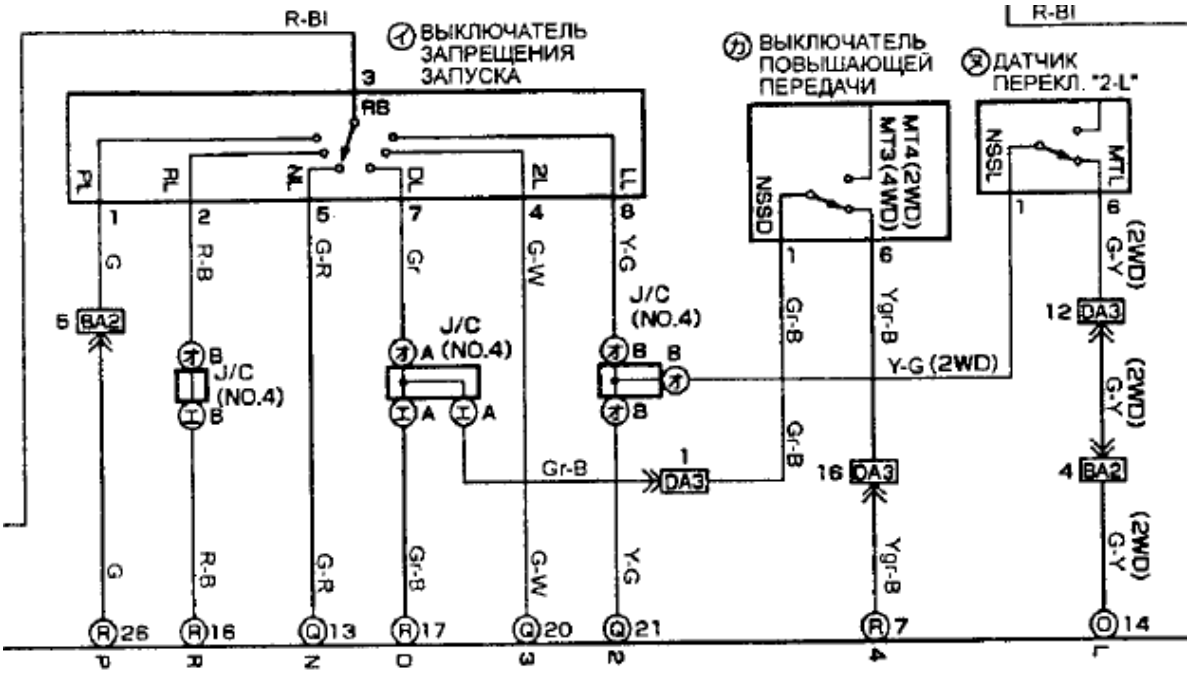
IMO (หน้าปลั๊ก)

26 P (P)

								EOM (W/B)	KSW (B/Y)	F/PS (L/B)		
						IMLD (L/B)	TXCT (P)	RXCK (V)	CODE (G)			

A/T Solenoid





2 JZ – GE VVT , JCE10W Altezza

ฝาดำ , คันเร่งไฟฟ้า , A/T 10 เส้น (4WD) , Air Flow Sen.

31P (O) (หน้าปลั๊ก)

# 30 (G)	# 40 (R/W)		# 50 (L/R)	# 60 (B/W)	ACIS (Y/G)	-	M- (R)	M+ (W)	ME01 (BR)		
G2 (G)	IGT1 (GR/B)	IGT2 (B)	IGT3 (B/Y)	L (G/Y)	-	-	OCV – (Y/B)	OCV+ (R/Y)	CL- (Y)	CL+ (R/W)	E01 (W/B)
NE- (L)	NE+ (B/W)	-	IGF (B/L)	RL (L/R)		KNK2 (W)	KNK1 (B)		LCK1 (W/L)	GE01 (GR)	E02 (W/B)

24 P (Q)

E03 (BR)	VC (L/Y)		HT2A (G/B)	HT1A (Y/GR)	# 10 (R)	# 20 (L)	PRG (GR)	
MOPS (GR)	PSP (V)	VG (G/B)	OX2A (B)	OX1A (W)	N (G/R)	THW (R)	VPA (Y/G)	VPA2 (L/W)
E1 (BR)	E2 (BR)	EVG (GR)	3 (G/W)	2 (Y/G)		THA (L/B)	VTA (W/R)	VTA2 (G/Y)

17 P (S)

S1 (Y)	S2 (G/Y)		NCO+ (R)	SP2+ (L/Y)	
SLU+ (G/W)	SLN+ (Y/R)	SLT+ (B/Y)	NCO- (G)	SP2- (R/L)	-
SLU- (L/R)	SLN- (R/W)	SLT- (R/B)		-	OIL (GR)

28 P (R)

AC (L/R)	STA (B)	-	-	TC (Y/G)	STP (G/W)		4 (LG/B)	-	-
TAM (LG/R)	-	-	ACMG (L/W)	-	-	R (R/B)	D (GR/B)	-	-
TACH (B)	PRE (L/Y)	-		-	-		P (G)	MPX2 (L)	MPX1 (O)

22 P (N)

BATT (B/Y)	SNW (GR/R)	TC (Y/R)	FPR (G/R)	FC (G/Y)		W (R/L)	+BM (L/W)
+ B2 (B/R)	IGSW (B/O)	MREL (B/O)	SIL (W)	-	TRC+ (R/Y)	ENG+ (L/B)	NEO (G)
+ B1 (B/R)	-		-	-	TRC- (W/G)	ENG- (P)	EC (W/B)

2 JZ – GE VVT , SC300

4 A/T 10 เส้น - IMO – Air Flow ฝาดำ , คันเร่งไฟฟ้า

31P (G) (หน้าปลั๊ก)

# 30 (BR)	# 40 (B/R)		# 50 (W)	# 60 (L/R)	ACIS (G/R)	-	M- (W)	M+ (B)	ME01 (W/R)		
G2 (L)	IGT1 (W/G)	IGT2 (Y)	IGT3 (G/W)	-	-	PSST (R/L)	OCV – (Y/B)	OCV+ (W/R)	CL- (G/B)	CL+ (G/Y)	E01 (W/B)
NE- (G)	NE+ (R)	NSW (B/W)	IGF (R/Y)	-		KNK2 (W)	KNK1 (W)		-	GE01 (GR)	E02 (W/B)

24 P (F)

E03 (BR)	VC (L/B)		HTR (R/W)	HTL (L)	# 10 (Y)	# 20 (W/L)	EVAP (G/B)	
-	-	VG (L/W)	OXR1 (R/L)	OXL1 (W)	ELS2 (L/R)	THW (LG)	VPA (Y/B)	VPA2 (R/B)
E1 (W/R)	E2 (BR)	EVG (G/W)	2 (G)	L (W)		THA (Y/G)	VTA (Y)	VTA2 (R)

17 P (C)

S1 (L)	S2 (G/Y)	-	NCO+ (G)	SP2+ (L/Y)	-
SLU+ (L/R)	SLN+ (P)	SLT+ (B/Y)	NCO- (R)	SP2- (R/Y)	-
SLU- (L/R)	SLN- (G/W)	SLT- (R/B)		PI (Y/B)	OIL (G/R)

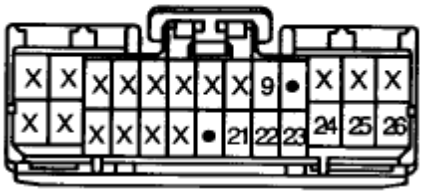
28 P (H)D

AC (L/R)	STA (G/R)	-	-	TC (Y)	STP (G/W)		3 (W/L)	OXL2 (W)	-
	ST1- (R/L)	PWR (G/O)	ACMG (W)	-	-	R (L)	D (G/Y)	PTNK (R)	-
-	-	-		CCS (L)	-	-	ELS1 (R/Y)	RSPD (G/B)	-

22 P (E)

BATT (B/W)	SNWO (L/R)	SNWI (G/Y)	DI (P)	FPC (R/W)		W (L/Y)	+BM (L/R)
+ B2 (B/R)	IGSW (B/O)	MREL (B/Y)	SIL (B)	-	TRC+ (BR)	ENG+ (B)	NEO (P/L)
+ B (B/R)	-		-	-	TRC- (Y)	ENG- (W)	EC (W/B)

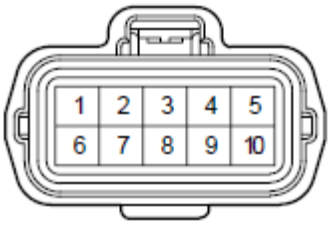
E7 (F)



E7 (F) ปลั๊ก IMO

1	14
2	15
3	16
4	17
5	18
6	19
7	20 - IMLD (G/W)
8	21 - TXCT , IMO (G/O)
9 - EOM (L/R)	22 - RXCK , IMO (L)
10 - KSW (Y)	23 - CODE , IMO (B/O)
11	24 - OXR2 (G)
12	25 - HTR2 (R/Y)
13 - TPC (W/L)	26 - HTL2 (BR)

A/T Solenoid (10 เส้น)



OIL (G/R)	SLT+ (B/Y)	SLN+ (P)	SLU+ (L/R)	S1 (L)
E2 (BR)	SLT- (R/B)	SLN- (G/W)	SLU- (L/B)	S2 (G/Y)

2JZ – GE VVT , Crown JZS155 - 1997(89661-3A330) ปลั๊กขาว

5 A/T 12 เส้น (A350E) - ฝาดำ - คันเร่งไฟฟ้า - SPDM in box - คันเกียร์สไลด์ 2 ชั้น

31P (A) (หน้าปลั๊ก) G

# 30 (L)	# 40 (R)		# 50 (W)	# 60 (R/L)	ACIS (P/B)	-	M- (G)	M+ (R)	ME01 (BR)		
G2 (Y)	IGT1 (B/R)	IGT2 (Y)	IGT3 (G)	L	-	PS (B/L)	OCV – (Y/B)	OCV+ (W/R)	CL- (L)	CL+ (G/B)	E01 (W/B)
NE- (W)	NE+ (B)	NSW (B/W)	IGF (Y/G)	-		KNK2 (GR)	KNK1 (B)		-	GE01 (B)	E02 (W/B)

24 P (B) F

-	VC (L/Y)		-	HT1A (G/B)	# 10 (Y)	# 20 (B/R)	EVAP (P/L)	
-	PIM (G/W)	-	-	OX1A (W)	ELS2 (L/R)	THW (R/L)	VPA (G/B)	VPA2 (L/W)
E1 (BR)	E2 (BR)	-	3	2		THA (Y/B)	VTA (Y/G)	VTA2 (R/B)

17 P (C)C

S1 (L/W)	S2 (G/Y)	S3 (R/Y)	NCO+ (R)	SP2+ (L/Y)	S4 (Y)
SLU+ (G/W)	SLN+ (P)	SLT+ (B/Y)	NCO- (G)	SP2- (R/L)	-
SLU- (L/R)	SLN- (L/B)	SLT- (R/B)		PI (Y)	OIL (G/R)

28 P (D) H

AC (B/W)	STA (B)	THWO (GR/L)	-	TC (P/B)	STP (G/W)		4 (G/O)	-	-
-	ST1- (B/O)	PWR (L/W)	ACMG (W/G)	-	-	R (R/B)	D (G)	-	-
-	AC2 (G/O)	-		CCS (G/R)	-	SPDM (V)	ELS (LG)	RSPD (Y)	PWRL (L/W)

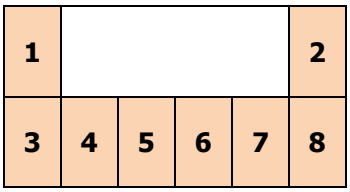
22 P (E) E

BATT (B/Y)	SNWO (GR/R)	SNWI (R/Y)	FPR (L/Y)	FC (V/Y)		W (L/B)	+BM (LG)
+ B2 (B/R)	IGSW (B/L)	MREL (G/O)	SIL	-	TRC+	ENG+	NEO
+ B (B/R)	-		-	-	TRC-	ENG-	EC (W/B)

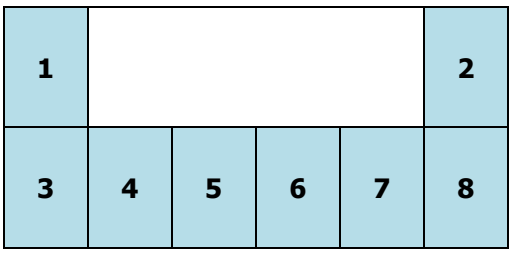
P (G/W) , R (R/B) , N (G/R) , D (G/B) , 4 (G/O) , 3 (G/Y) , 2 (Y/G) , L (L/W)

A/T Shift Lock Control

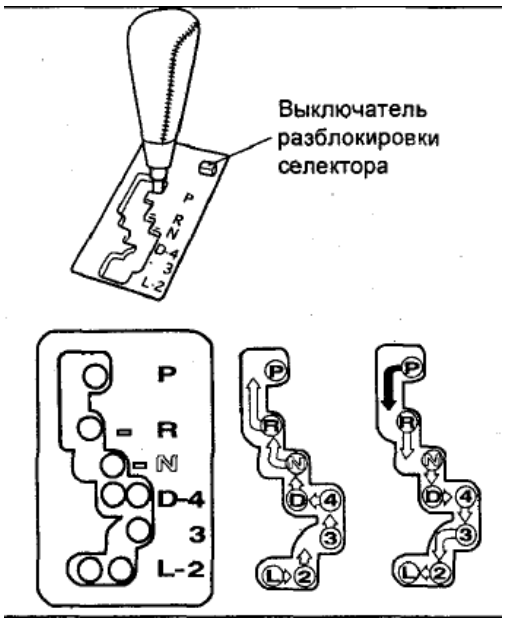
R



S



R	S
1	1
2	2 - D (G)
3	3
4 - RSPD (Y)	4 - L (L/W)
5	5 - 2 (G/B)
6	6
7 - D (G)	7
8	8 - 4 (G/O)



5A/T Solenoid 12 เส้น



ЭЛЕКТРОМАГНИТНЫЕ КЛАПАНЫ СИСТЕМЫ ЭЛЕКТРОННОГО УПРАВЛЕНИЯ АКПП

2 JZ – GE,VVT – Aristo JZS160 , 1997 (89661-30090) – IMO ในกล่อง

5 A/T 12 เส้น (A650E) , คันเร่งไฟฟ้า , ปลั๊กขาว

E2 - 31P (D) หน้าปลั๊ก

# 30 (L)	# 40 (R)		# 50 (W)	# 60 (R/L)	ACIS (B/L)	MOL (R/W)	M- (G)	M+ (R)	ME01 (BR)		
G2 (Y)	IGT1 (B/Y)	IGT2 (B/L)	IGT3 (B/R)	L (R/Y)	-	PSST (L)	OCV – (R/W)	OCV+ (W/R)	CL- (Y/R)	CL+ (G/R)	E01 (W/B)
NE- (L)	NE+ (W)	-	IGF (B)	ALT (P/L)		KNK2 (GR)	KNK1 (B)		LCK1 (GR)	GE01 (B)	E02 (W/B)

E3 - 24 P (B)

E03 (W/B)	VC (L/Y)		HT2A (Y)	HT1A (R)	# 10 (Y)	# 20 (B/W)	EVAP (B/Y)	
MOPS (L/B)	PSP (B/Y)	VG (R/L)	OX2A (W)	OX1A (B)	N (G/R)	THW (B/R)	VPA (L)	VPA2 (L/R)
E1 (BR)	E2 (BR)	EVG (GR)	3 (G/B)	2 (G/B)		THA (W/R)	VTA (Y/G)	VTA2 (Y/R)

E4 - 17 P (S)

S1 (L)	S2 (G/Y)	S3 (Y/G)	NCO+ (R)	SP2+ (L/Y)	S4 (Y)
SLU+ (G/W)	SLN+ (P)	SLT+ (G/B)	NCO- (G)	SP2- (R/L)	-
SLU- (L/R)	SLN- (L/B)	SLT- (R/B)		-	OIL (G/R)

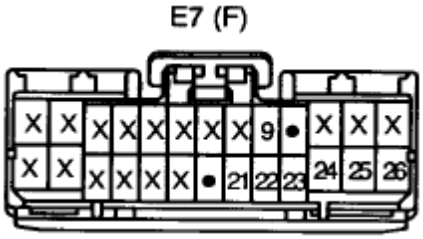
E5 - 28 P (C)

-	STA (B)	-	-	TC (P/B)	STP (G/W)		4 (Y/G)	OX1B (W)	-
TAM (LG/R)	-	-	ACMG (L/O)	-	KD (Y/R)	R (R/B)	D (Y/B)	-	-
-	PRE (L/B)	-		-	-	WFSE (L/R)	P (R/W)	MPEX2 (L)	MPEX1 (W)

E6 - 22 P (A)

BATT (B/Y)	SNWO	SNWI	DI (B/R)	FPC (B/L)		W (GR/R)	+BM (V/Y)
+ B2 (B/R)	IGSW (B/O)	MREL (B/Y)	SIL (W/G)	-	TRC+ (P)	ENG+ (LG)	NEO (G/R)
+ B (B/R)	-		-	-	TRC- (V)	ENG- (L)	EC (W/B)

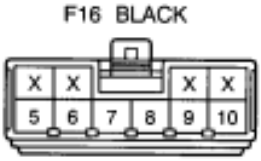
MPEX1 - Body ECU , MPEX2 – A/C ECU

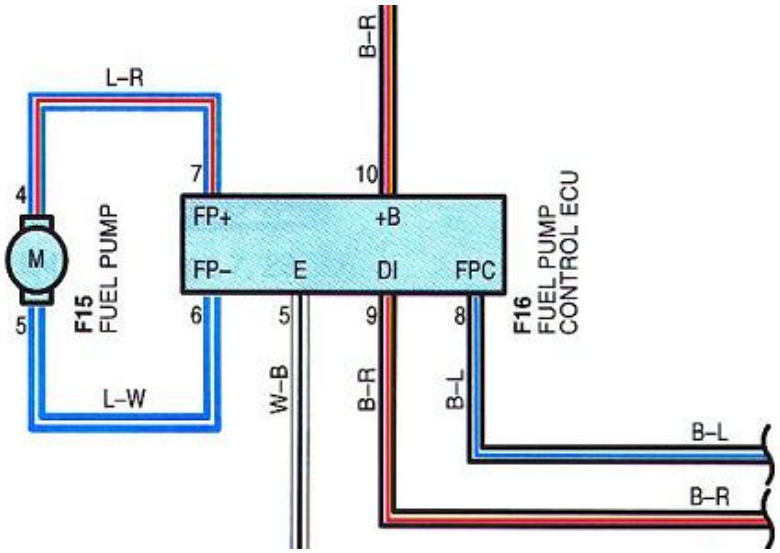


E7 – 26 P (F), ปลั๊ก IMO

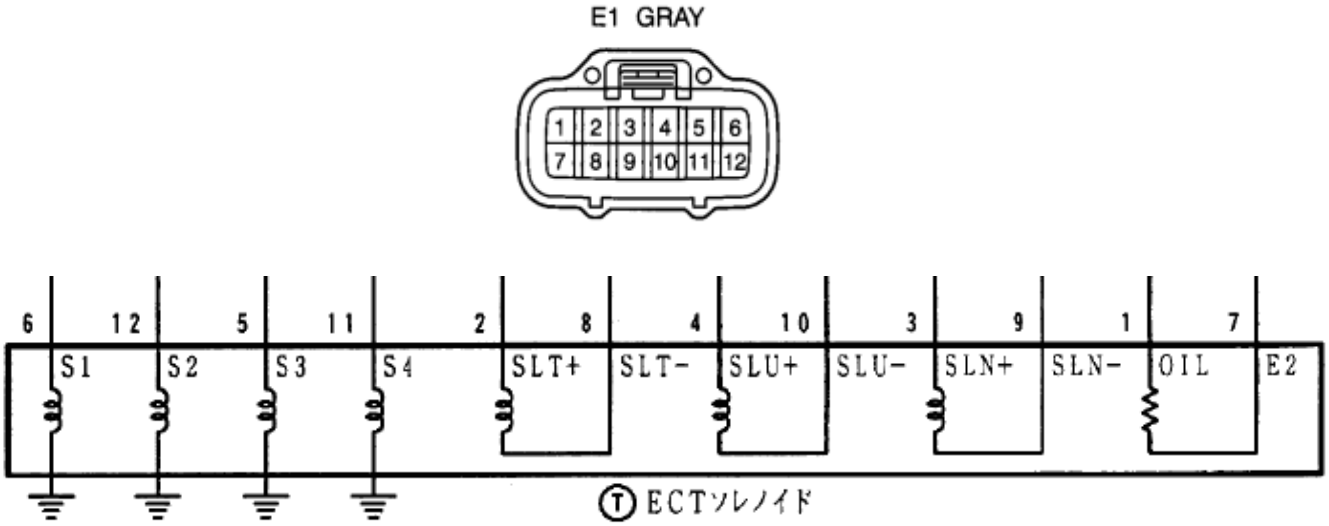
1	14
2	15
3	16
4	17
5	18
6	19
7	20 - IMLD (V)
8	21 - TXCT , IMO (L/R)
9 - EOM (W/B)	22 - RXCK , IMO (B/W)
10 - KSW (Y)	23 - CODE , IMO (G/B)
11	24 - OX2B (R)
12	25 - HT2B (GR/B)
13	26 - HT1B (GR)

Fuel Pump Control

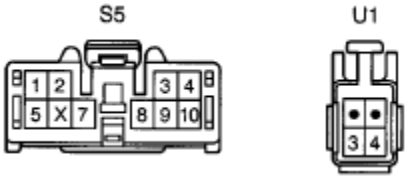




5 A/T Solenoid 12 เส้น

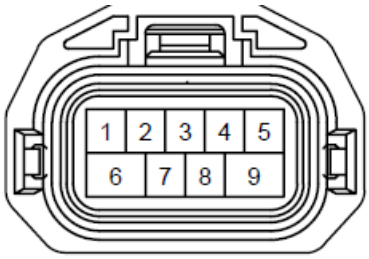


A/T Shift Lock Control

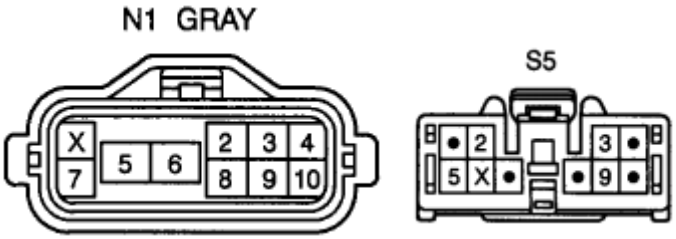


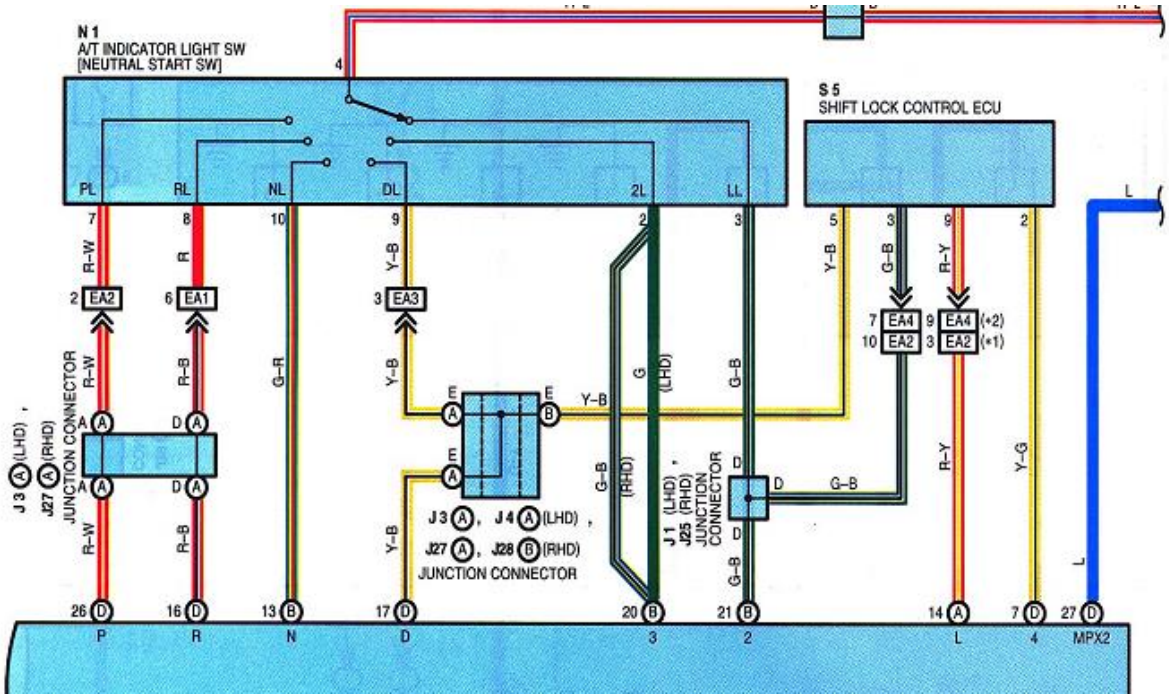
S 5	U 1
1 - Key Interlock Sol. , KLS+ (L/R) 2 - 4 , Eng ECU (Y/G) 3 - 2 , Eng ECU (G/B) 4 - ACC (GR) 5 - D , Eng ECU (Y/B) 6 7 - P1 มาจาก Body ECU No.2 (P1) , (G/O) 8 - SLS+ มาจาก Body ECU No.2 (SLCK) , (G/Y) 9 - L , Eng ECU (R/Y) 10 - E1 (W/B)	3 - KLS- (W/B) 4 - KLS+ (L/R)

A/T Position Sw.



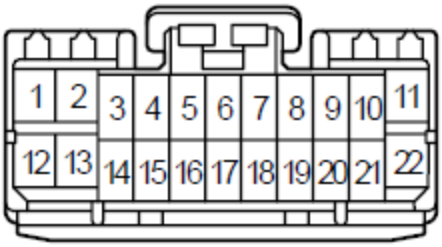
P (G/W)	R (R/B)	IG (R/L)	2 (G/Y)	N (G/R)
STA (B)	D (G)	L (G/B)	NSW (B/W)	



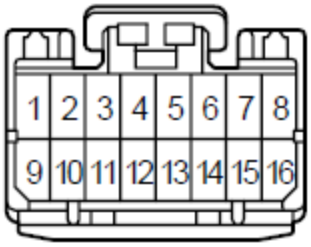


A/C ECU

A16



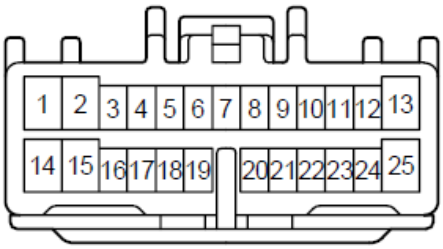
A17



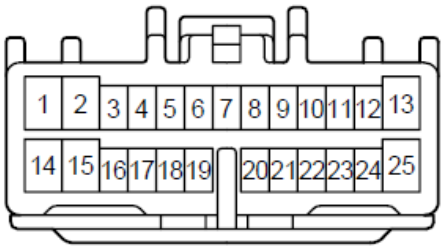
A 16 (A)	A 17 (B)
1 - +B (W/R)	1
2 - ACC (GR) nn	2 - A/C Thermistor (R/G)
3	3
4 - Blower Motor Control (R/L)	4
5 - MPEX2 (L) , Engine ECU	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13 - A/C Thermistor , E2 (B)
14 - A/C Room Temp. Sen. (R)	14
15	15
16 - MPEX1 (L/R) , Multi-Display	16
17	
18	
19 - A/C Room Temp. Sen. , E2 (B/Y)	
20	
21	
22 - E1 (W/B)	

Body ECU

B5



B6



B 5 (A) , No.1			B 6 , No.2		
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14	-	
15			15		
16			16		
17			17		
18			18		
19	-	MPEX1 (W) , Engine ECU	19		
20			20	-	P1 (G/O) , Shift Lock ECU
21			21	-	SLS+ (G/Y) , Shift Lock ECU
22			22		
23	-	PWR (G/W)	23		
24	-	SNOW (G/R)	24		
25			25		

2 JZ – GE , VVT Aristo(JZS161) - 1998

4 A/T 10 เส้น – 5 A/T 12 เส้น , Hydraulic Fan , คันเร่งไฟฟ้า

E (31 P) , Dหน้าปลั๊ก

# 30	# 40			# 50	# 60	ACIS		M-	M+	ME01	
G2	IGT1	IGT2	IGT3	L		PSW	OCV-	OCV+	CL-	CL+	E01
NE-	NE+		IGF	RL		KNK2	KNK1		LCK1	GE01	E02

B (24 P) , B

E03	VC		HTR	HTL	# 10	# 20	PRG	
MOPS	PSP	VG	OXR1	OXL1	N	THW	VPA	VPA2
E1	E2	EVG	2 , 3	1 , 2		THA	VTA (Y)	VTA2 (Y/G)

D (17 P) , S

S1	S2		NCO+	SP2+	
SLU+	SLN+	SLT+	NCO-	SP2-	
SLU-	SLN-	SLT-			OIL

C (28 P) , C

	STA			TC	STP		3 , 4	-	-
TAM	ST1-	PRE2	ACMG		-	R	D	TH+	
TACH (B/W)	PRE	TH-		CCS	-	WFSE	P	MPX2	MPX1

A (22 P) , A

BATT			DI	FPC		W	+ BM
+ B2	IGSW	MREL	SIL	-	TRC+	ENG+	
+ B	-		REC2	-	TRC-	ENG-	EC

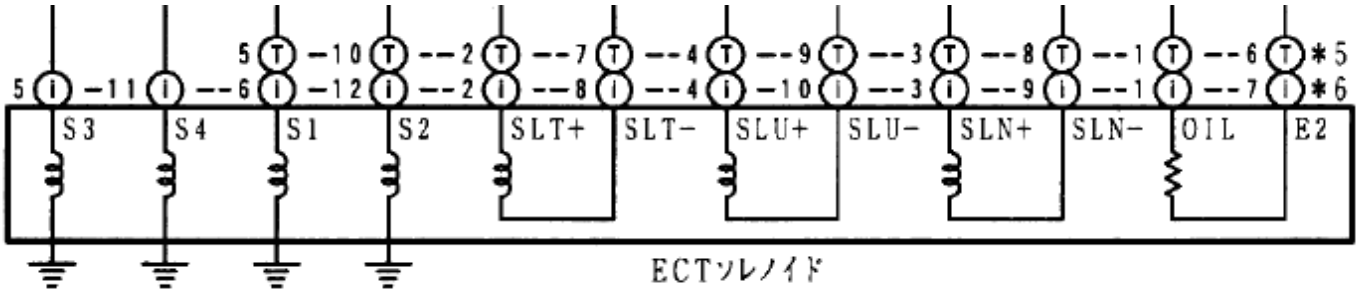
IMO หน้าปลั๊ก

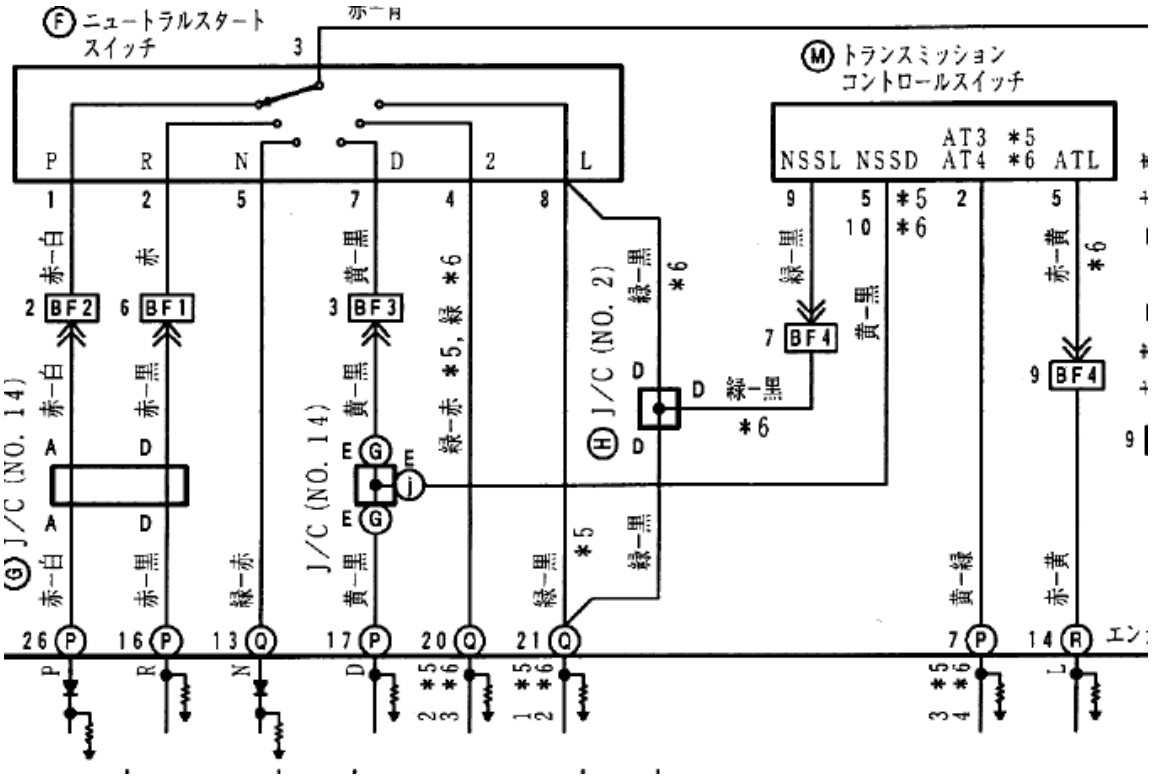
								EOM	KSW			
						IMLD	TXCT	RXCK	CODE			

A/T Solenoid





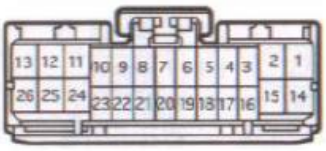



Ⓕ ニュートラルスタート スイッチ
Ⓜ トランスミッション コントロールスイッチ
P R N D 2 L
NSSL NSSD AT3 *5 AT4 *6 ATL
BF1
BF2
BF3
BF4
Ⓖ J/C (NO. 14)
J/C (NO. 14)
Ⓗ J/C (NO. 2)
赤−白
赤
赤−黒
黄−黒
緑−赤 *5, 緑 *6
緑−黒 *5
緑−黒 *6
黄−緑
赤−黄 *6
*5
*6

2 JZ – GTE , VVT Aristo(JZS161) - 1998 (89661-3A470)

4 A/T 12 เส้น + - , Hydraulic Fan , คันเร่งไฟฟ้า , ECU Fuel Pump , Air Flow Solenoid ปั๊มเพาเวอร์ , twin turbo





E (31 P) , R หน้าปลั๊ก

# 30 (L)	# 40 (R/W)		# 50 (R)	# 60 (R/B)	VSV1 (G/B)	MOL (Y/G)	M- (B)	M+ (W)	ME01 (BR)		
G2 (L)	IGT1 (R/W)	IGT2 (Y/G)	IGT3 (P)	-	PMC (L/W)	-	OCV- (Y/B)	OCV+ (W/R)	CL- (Y/R)	CL+ (G/R)	E01 (BR)
NE- (BR)	NE+ (B/R)	NSW (B/W)	IGF (R/Y)	RL (P/L)		KNK2 (W)	KNK1 (W)		LCK1 (P)	GE01 Shield	E02 (BR)

B (24 P) , Q

-	VC (L/R)		VSV2 (G/Y)	HT (G)	# 10 (R/L)	# 20 (L/R)	PRG (Y/B)	
MOPS	PIM (B/Y)	VG (R/L)	-	OX (W)	N (G/R)	THW (L)	VPA (L/W)	VPA2 (L/B)
E1 (BR)	E2 (W/B)	EVG (BR)	2 (G)	L (G/B)		THA (W/R)	VTA (Y)	VTA2 (Y/G)

D (17 P) , S

S1 (L)	S2 (G/Y)	S3 (Y/G)	NCO+ (R)	SP2+ (L/Y)	S4 (Y)
SLU+ (G/W)	SLN+ (P)	SLT+ (G/B)	NCO- (G)	SP2- (R/L)	VSV3 (G/R)
SLU- (L/R)	SLN- (L/B)	SLT- (R/B)		FPU (R/Y)	OIL (G/R)

C (28 P) , P

	STA (B)	FCUT	SFTU (L/Y)	TC (R/L)	STP (G/W)		3 (Y/G)	-	-
TAM	ST1-	PRE2	ACMG (W/G)	SFTD (R/G)	-	R (R/B)	D (Y/B)	TH+	
TACH (B/W)	PRE	TH-		CCS	-	REC	P	MPX2 (W)	MPX1 (L)

A (22 P) , O

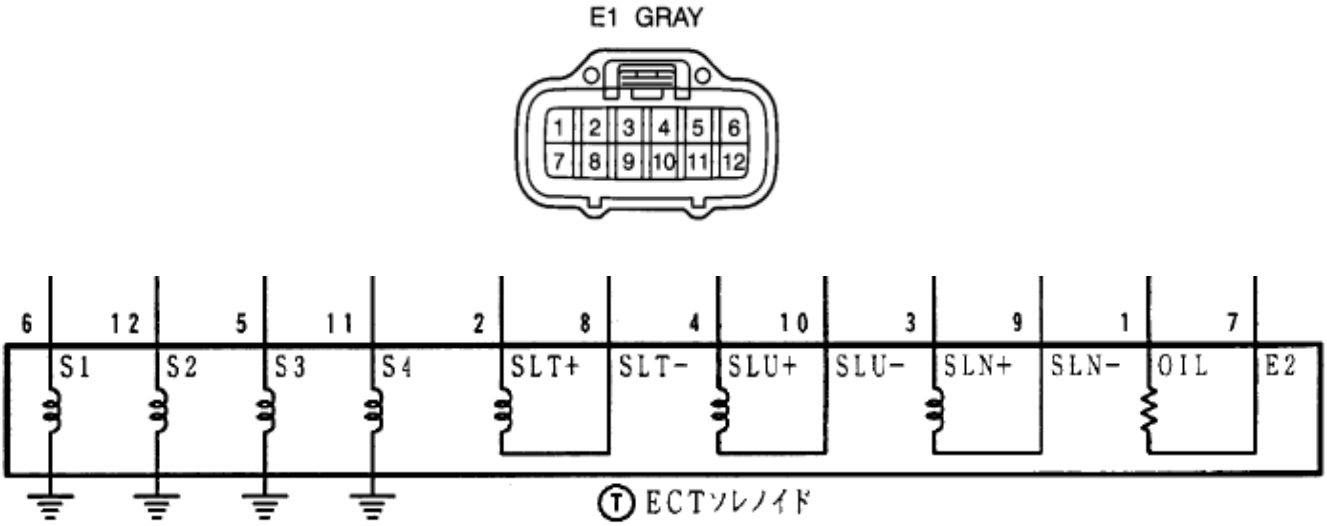
BATT (B/W)	SNOW (B)	SNW1 (P)	DI (G)	FPC (P/W)		W (L/B)	+ BM (L/R)
+ B2 (B/R)	IGSW (B/O)	MREL (B/Y)	SIL (B/W)	-	TRC+ (P)	ENG+ (Y/G)	NEO (G/R)
+ B (B/R)	-		REC2	-	TRC- (P)	ENG- (L)	EC (W/B)

IMO หน้าปลั๊ก

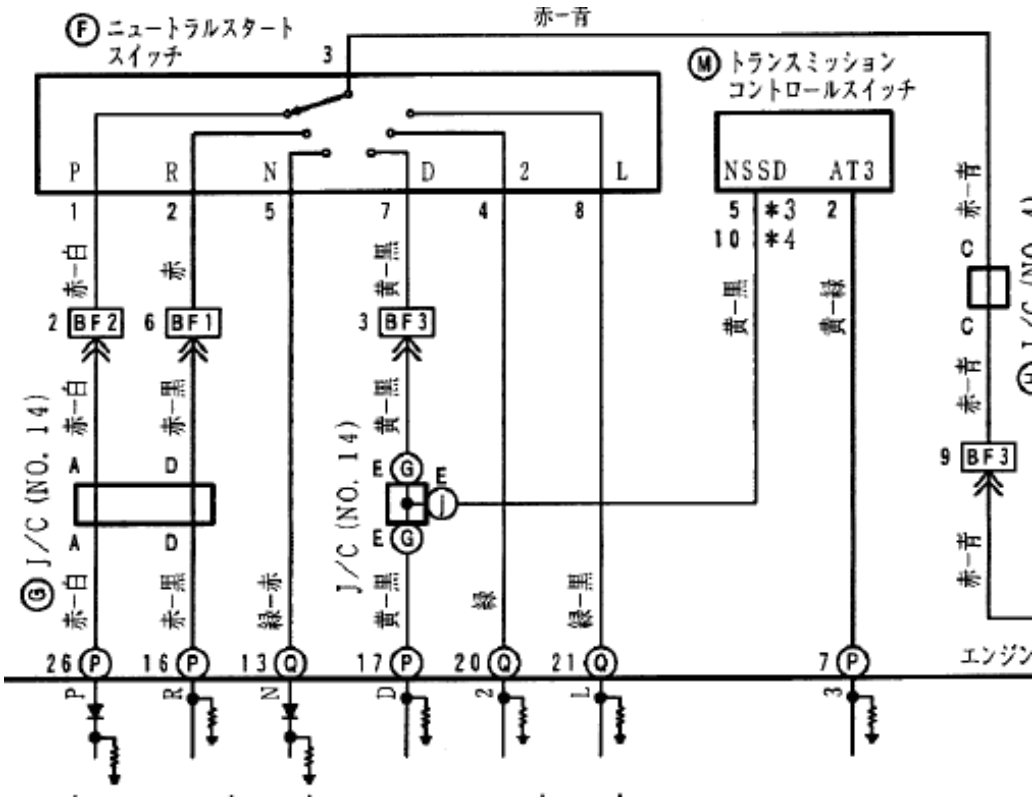
								EOM	KSW			
						IMLD	TXCT	RXCK	CODE			

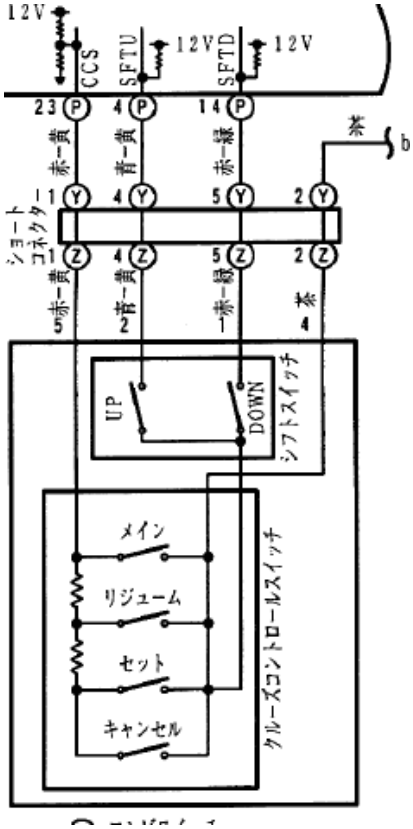
เกียร์ Tiptronic + , - จะทำงาน เมื่อคันเกียร์ อยู่ในตำแหน่ง D3
Shift Up , Shift Down

5 A/T Solenoid 12 เส้น

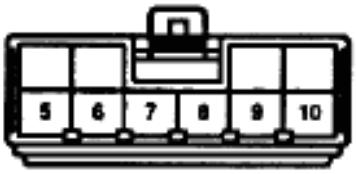


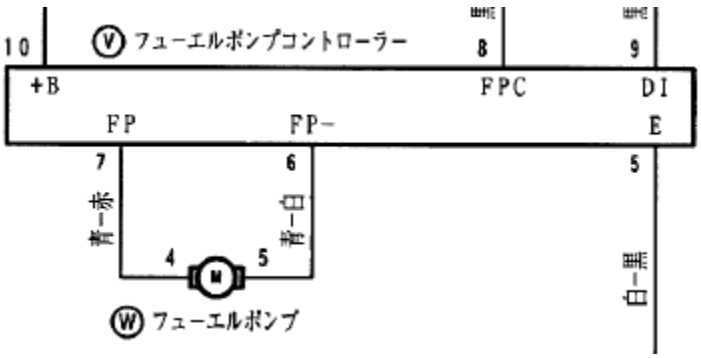
A/T Position Sw.





Fuel Pump Control



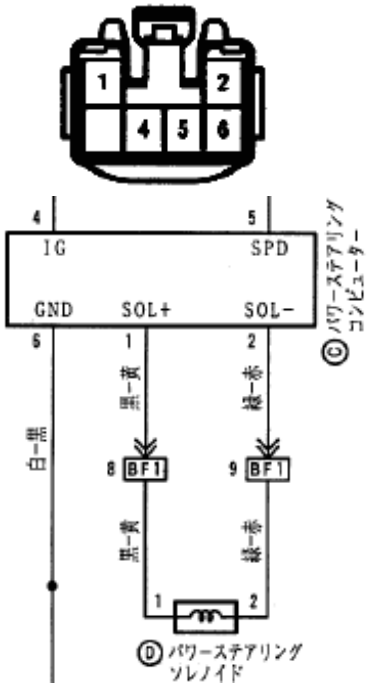


Throttle Control

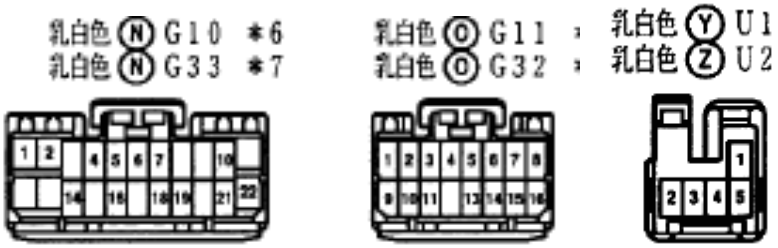


M-	M+	CL+	CL-

PPS Control



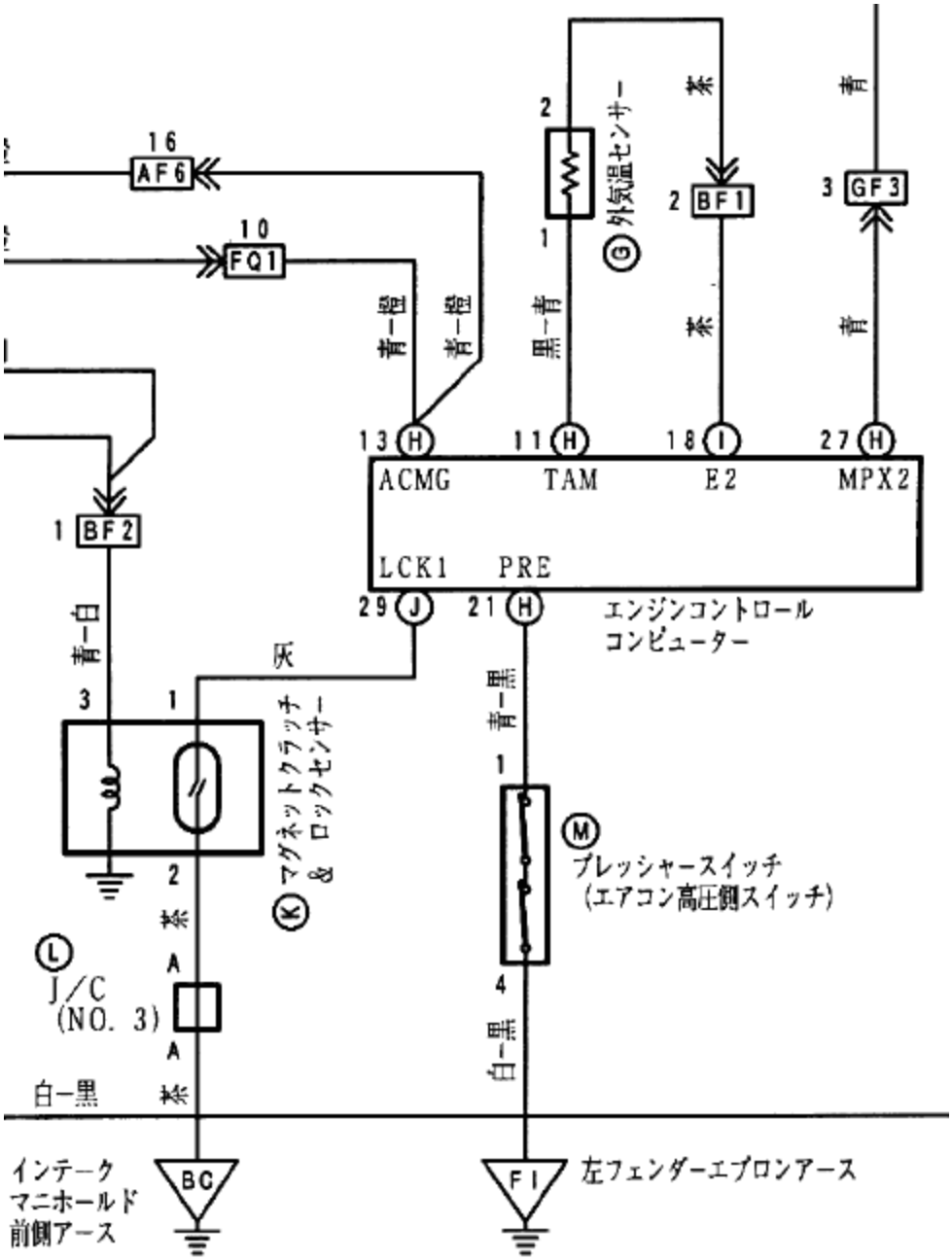
A/C Control



N	O
1 - BATT 2 - ACC 3 4 - Blower Control 5 - MPX2 เข้า Engine ECU 6 7	1 2 - TE 3 4 5 6 7

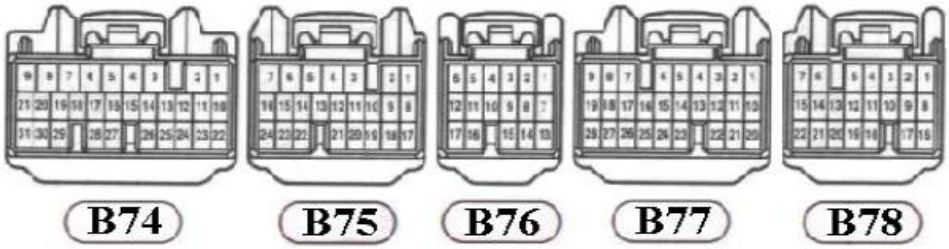
8	8
9	9
10	10
11	11
12	12
13	13 - TE , E2
14 - TR	14
15	15
16 - MPX1 เข้า Body ECU	16
17	
18	Y
19 - TR , E2	
20	1
21	2
22 - E1	3
	4
	5

TAM - A/C Ambient Temp Sen.
TR - Room Temp Sen.
TE - A/C Thermistor
PRE - A/C Dual Pressure Sw.
LCK1 - A/C Lock Sen. (อยู่ที่ Compressor)


16
AF6
10
FQ1
青−橙
青−橙
2
1
黒−青
Ⓖ 外気温センサー
茶
青
2 BF1
3 GF3
茶
青
13 Ⓗ
11 Ⓗ
18 Ⓘ
27 Ⓗ
ACMG
TAM
E2
MPX2
LCK1
PRE
1 BF2
29 Ⓙ
21 Ⓗ
エンジンコントロール
コンピューター
青−白
灰
青−黒
3
1
Ⓚ マグネットクラッチ & ロックセンサー
1
Ⓜ プレッシャースイッチ (エアコン高圧側スイッチ)
2
茶
Ⓛ J/C (NO. 3)
A
A
4
白−黒
茶
白−黒
インテーク マニホールド 前側アース
BC
FI
左フェンダーエプロンアース

2 JZ – GTE , VVT – Supra JZA80(1997-2002)

4 A/T 12 เส้น + - , Hydraulic Control , คันเร่งไฟฟ้า





B74 (31 P) หน้าปลั๊ก

# 30 (L)	# 40 (R/W)		# 50 (R)	# 60 (R/B)	VSV1 (G/B)		M- (B)	M+ (W)	ME01 (BR)		
G2 (L)	IGT1 (R/W)	IGT2 (Y/G)	IGT3 (P)	-	PMC (L/W)	-	OCV- (Y/B)	OCV+ (W/R)	CL- (Y/R)	CL+ (G/R)	E01 (BR)
NE- (BR)	NE+ (B/R)	NSW	IGF (R/Y)			KNK2 (W)	KNK1 (W)		LCK1 (P)	GE01	E02 (BR)

B75 (24 P)

-	VC (L/R)		VSV2 (G/Y)	HT (G)	# 10 (R/L)	# 20 (L/R)	PRG (Y/B)	
MOPS	PIM (B/Y)	VG (R/L)		OX (W)	N (G/R)	THW (L)	VPA (L/W)	VPA2 (L/B)
E1 (BR)	E2 (W/B)	EVG (BR)	2 (G)	L (G/B)		THA (W/R)	VTA (Y)	VTA2 (Y/G)

B76 (17 P)

S1 (L)	S2 (G/Y)	S3 (Y/G)	NCO+ (R)	SP2+ (L/Y)	S4 (Y)
SLU+ (G/W)	SLN+ (P)	SLT+ (G/B)	NCO- (G)	SP2- (R/L)	VSV3 (G/R)
SLU- (L/R)	SLN- (L/B)	SLT- (R/B)		FPU (R/Y)	OIL (G/R)

B77 (28 P)

AC	STA (B)		SFTU (L/Y)	TC (R/L)	STP (G/W)		3 (Y/G)	-	-
			ACMG (W/G)	SFTD (R/G)	-	R (R/B)	D (Y/B)	RRO (G/R)	RLO (P/W)
TACH (B/W)	ABS (Y/R)				-	SPD (P)	ELS (R/Y)	RSPD (W/R)	MPX2 (L)

B78 (22 P)

BATT (B/W)	SNOW (B)	SNW1 (P)	DI (G)	FPC (P/W)		W (L/B)	+ BM (L/R)
+ B2 (B/R)	IGSW (B/O)	MREL (B/Y)	SIL (B/W)	-	TRC+ (P)	ENG+ (Y/G)	NEO (G/R)
+ B (B/R)	-		REC2		TRC- (P)	ENG- (L)	EC (W/B)

B79หน้าปลั๊ก

IND (Y/B)	MSW (Y)	LP02 (G/Y)	LP01 (G)			FRO (Y/R)	FLO (L/O)					
CIND (W)			LP03 (R/Y)	SPTL (V/W)	BZ (V)							

2JZ – GE , VVT ,JCE10W – Altezza Lexus LS200ปี 2000 ฝาดำ

Air Flow , 5 A/T +- , 12 เส้น , ปลั๊กขาว– IMO- คันเร่งไฟฟ้า

31P (O) หน้าปลั๊ก

# 30 (G)	# 40 (R/W)		# 50 (L/R)	# 60 (B/W)	ACIS (Y/G)	-	M- (R)	M+ (W)	ME01 (BR)	
G2 (G)	IGT1 (GR/B)	IGT2 (B)	IGT3 (B/Y)	L (G/Y)	-	PS	OCV – (Y/B)	OCV+ (R/Y)	CL- (Y)	CL+ (R/W)	E01 (W/B)
NE- (L)	NE+ (B/W)	NSW	IGF (B/L)	RL (L/R)		KNK2 (W)	KNK1 (B)		LCK1 (W/L)	GE01	E02 (W/B)

24 P (Q)

E03 (BR)	VC (L/Y)		HT2A (G/B)	HT1A (Y/GR)	# 10 (R)	# 20 (L)	PRG (GR)	
MOPS (GR)	PSP (V)	VG (G/B)	OX2A (B)	OX1A (W)	N (G/R)	THW (R)	VPA (P/L)	VPA2 (L/W)
E1 (BR)	E2 (BR)	EVG (L)	3 (G/W)	2 (Y/G)		THA (L/B)	VTA (W/R)	VTA2 (G/Y)

17 P (S)

S1 (Y)	S2 (G/Y)	S3 (W/L)	NCO+ (R)	SP2+ (L/Y)	S4 (B/R)
SLU+ (G/W)	SLN+ (Y/R)	SLT+ (B/Y)	NCO- (G)	SP2- (R/L)	-
SLU- (L/R)	SLN- (R/W)	SLT- (R/B)		PI	OIL (GR)

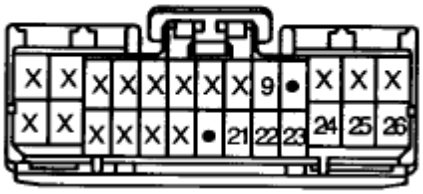
28 P (R)

AC	STA (B)	THWO	SFTU (GR/R)	TC (Y/G)	STP (G/W)		4 (LG/B)	-	-
TAM (LG/R)	ST1	PWR	ACMG (L/W)	SFTD (GR/G)	-	R (R/B)	D (GR/B)	-	-
TACH (B)	PRE (L/Y)	-		CCS	-	SPDM	P (G)	MPEX2 (L)	MPEX1 (O)

22 P (N)

BATT (B/Y)	SNWO	SNWI	FPR (G/R)	FC (G/Y)		W (R/L)	+BM (L/W)
+ B2 (B/R)	IGSW (B/O)	MREL (B/O)	SIL (W)	-	TRC+ (R/Y)	ENG+ (L/B)	NEO (G)
+ B (B/R)	-		-	-	TRC- (W/G)	ENG- (P)	EC (W/B)

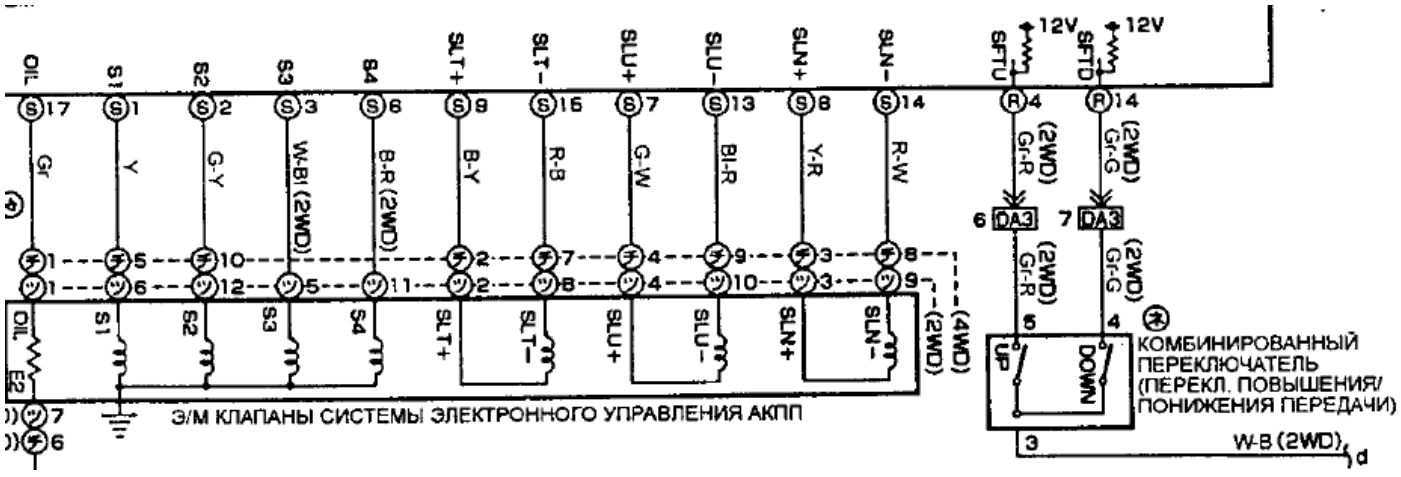
E7 (F)



26 P (P)

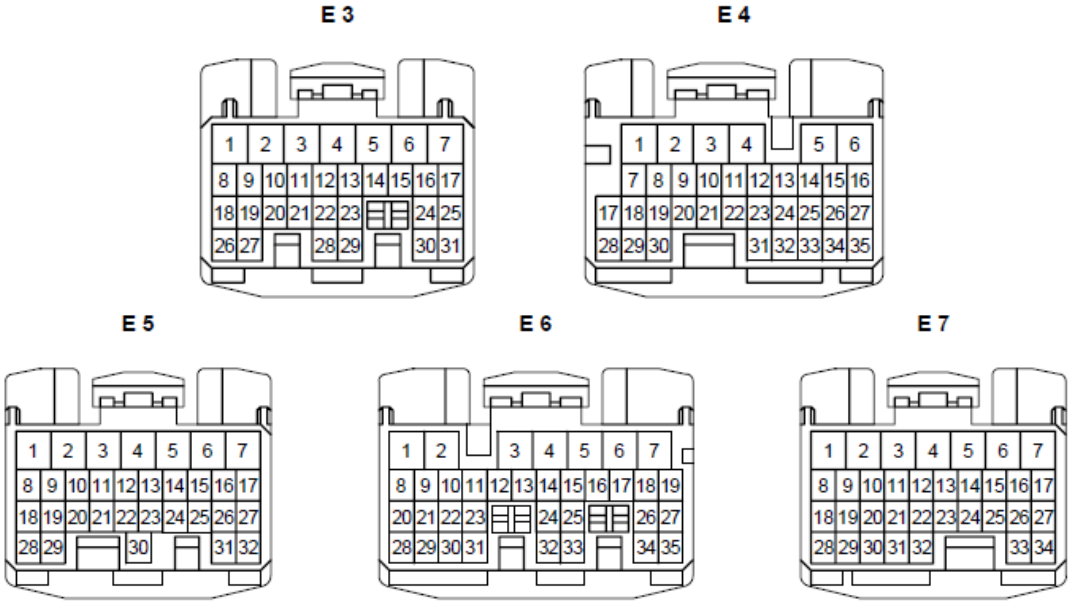
1	14
2	15
3	16
4	17
5	18
6	19
7	20 - IMLD (L/B)
8	21 - TXCT , IMO (P)
9 - EOM (W/B)	22 - RXCK , IMO (V)
10 - KSW (B/Y)	23 - CODE , IMO (G)
11 - F/PS (L/B)	24 - OX2B (R)
12	25 - HT2B (GR/B)
13	26 - HT1B (GR)

MPEX1 - A/C Control System
MPEX2 - Body ECU



2 JZ – GE , VVT (Lexus IS300 – 2002) , 5 A/T 12 เส้น +,-

คันเร่งไฟฟ้า , ปลั๊กขาว



E 3 – A (31 P)

1	-	EOM (W/B)	17	-	IGSW (B/O)
2	-	EC (W/B)	18	-	
3	-		19	-	
4	-	BATT (B/Y)	20	-	SRS System (L)
5	-	+B2 (B/R)	21	-	
6	-	+B (B/R)	22	-	
7	-	+BM (L/W)	23	-	
8	-		24		
9	-		25	-	
10	-		26	-	SIL (W)
11	-	KSW (B/Y)	27	-	
12	-	STA (B)	28	-	
13	-	MREL (B/O)	29		
14	-	FC (G/Y)	30	-	IMLD (L/B)
15	-	FPR (G/R)	31	-	CODE (G/B)
16	-	ACMG (L/W)			

E 4 – B (35 P)

1			19	-	ENG+ (L/B)
2	-	W (R/L)	20	-	MPEX2 ( ) Body ECU
3	-	TC (R/W)	21	-	MPEX1 (L) , A/C System
4	-	STP (G/W)	22	-	WFSE (LG)
5	-	SFTD (GR/R)	23	-	TXCT (P/B)
6	-	SFTU (GR/R)	24	-	RXCK (V)
7	-	HT1B (G/B)	25	-	PTNK (L/W)
8	-	HT2B (R/W)	26		
9	-	NEO (G)	27		
10	-	TBP (P)	28	-	OX1B (W)
11	-	SPD (W/L)	29	-	TRC- (W/G)
12	-	2 (Y/G)	30	-	ENG- (P)
13	-	D (GR/B)	31		
14	-	4 (LG/B)	32	-	VPA2 (L/W)
15			33	-	VPA (P/L)

16 - IG- (B)	34 - E2 (BR)
17 - OX2B (W)	35 - VC (L/Y)
18 - TRC+ (R/Y)	

E 5 – C (32 P)

1 - E01 (W/B)	17 - #20 (L)
2 - E02 (W/B)	18
3 - ME01 (BR)	19
4 - E03 (BR)	20 - HT2A (P)
5	21 - ACIS (Y/G)
6	22 - CCV (Y/R)
7 - IGF (B/L)	23 - PSP (V)
8	24 - THW (R)
9	25
10	26 - EVG (L/W)
11	27 - VG (G/B)
12	28 - OX2A (B)
13 - IGT1 (GR/B)	29
14	30 - HT2A (P)
15 - #60 (B/W)	31
16 - #40 (R/W)	32 - THA (L/B)

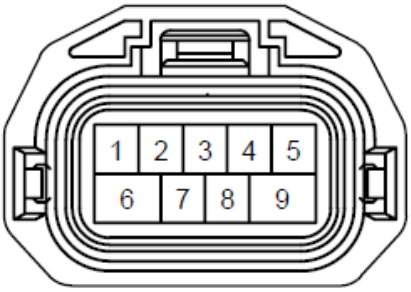
E 6 – D (35 P)

1 - KNK1 (B)	19
2 - KNK2 (W)	20
3 - N (G/R)	21
4 - 3 (G/W)	22
5 - R (R/B)	23
6 - P (G)	24
7 - E1 (BR)	25
8	26
9 - HT1A (LG)	27
10	28 - OX1A (W)
11	29
12	30
13	31
14 - MOL (W/R) , oil level sw.	32
15	33
16	34
17	35
18	

E 7 – E (34 P)

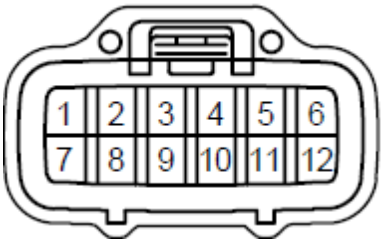
1 - GE01	18
2 - M- (R)	19
3 - M+ (W)	20
4 - E1 (BR)	21
5 - OCV- (Y/B)	22
6 - OCV+ (R/Y)	23
7 - MOPS (GR) , oil pressure sw.	24 - VTA2 (G/Y)
8 - FAN (L/B)	25 - VTA (W/R)
9 - CL- (Y)	26 - IGT3 (B/Y)
10 - CL+ (R/W)	27 - IGT2 (B/R)
11 - PRG (W/G)	28
12	29 - G2 (G)
13 - #50 (L/R)	30
14 - #30 (V)	31 - NE+ (B/W)
15 - #10 (R)	32 - NE- (L)
16	33
17	34

A/T Position Sw.

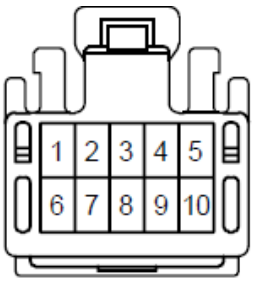


1 - P (G) 2 - R (R/B) 3 - IG (R/L) 4 - 2 (G/W) 5 - N (G/R)	6 7 - D (GR) 8 - L (Y/G) 9 10

A/T Solenoid

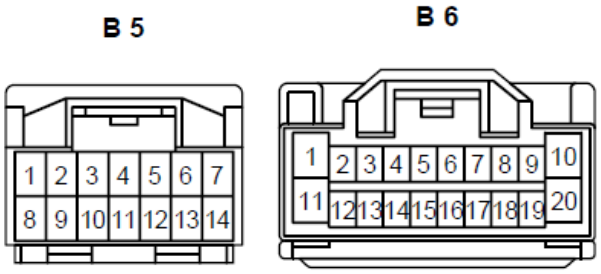


A/T Shift Lock Control



1 - D , engine ecu (GR/B) 2 3 4 - ACC (GR) 5 - IG (B/R)	6 - 4 , engine ecu (LG/B) 7 8 - KLS+ (L/R) , key interlock sol. 9 10 - STP (G/W)

Body ECU



A/C ECU



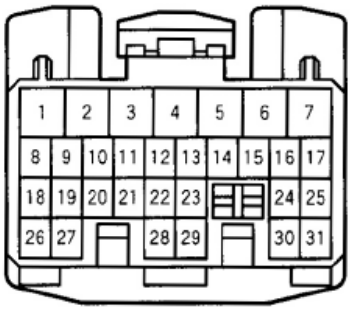
A12

1 - MPEX1 (L)
4 - PWR (L/W),-
13 - SNOW (B/Y),-

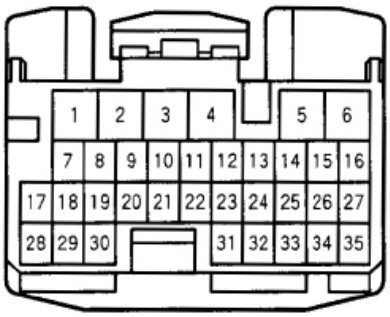
2 JZ – FSE , JZS171 Crown (89661-3A820)

A 54 (H), A 55 (I), B 87 (J),
B 88 (K), B 89 (L)
エンジンコントロールECU

A 54
乳白色

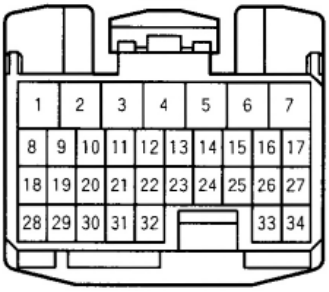


A 55
乳白色

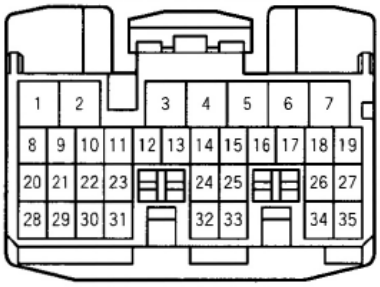


A 54 (H)	A 55 (I)
1 - +B (B/R)	1
2 - +B (B/R)	2 - ACMG (B/Y)
3 - BATT (B/Y)	3
4	4
5 - TACH (W)	5 - RDEF (G/B)
6 - FPR (B/R)	6 - +BM (P)
7	7
8 - MREL (B)	8 - L (L/W)
9 - IGSW (B/W)	9 - 2 (G/B)
10 - FC (G/Y)	10 - D (LG)
11 - W (R/L)	11 - R (R/B)
12	12
13	13 - OD2 (LG)
14	14 - 4 (O)
15 - PRE (L/B)	15
16	16
17 - NEO (G/R)	17 - EFI+ (L/Y)
18 - SIL (R)	18 - MPX1 (GR/B)
19 - WFSE (R)	19 - STP (V)
20 - TC (V)	20 - 3 (G/Y)
21 - TAM (V/W)	21 - P (R/W)
22 - VPA (G/W)	22 - N (G/R)
23 - VPA2 (P)	23 - ECO+ (R)
24 - ENG+ (B)	24
25 - TRC+ (BR)	25 - SFTU (R/G)
26 - MPX2 (GR/B)	26
27 - VCP2 (B/R)	27
28	28 - EFI- (R/Y)
29 - EPA2 (B/W)	29
30 - ENG- (W)	30
31 - TRC- (Y)	31 - ECO- (G)
	32
	33 - SFTD (L/Y)
	34
	35

B 87
乳白色



B 88
(1JZ－FSE)乳白色



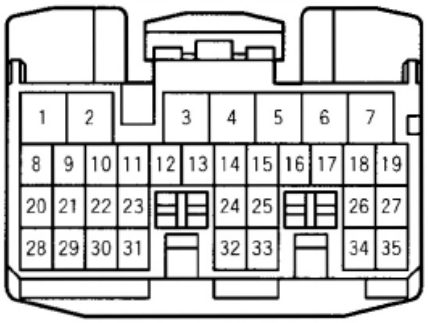
B87 (J)

1 - #10 (G/W)
2 - #20 (R/L)
3 - #30 (G/B)
4 - #40 (Y/B)
5 - #50 (L/B)
6 - E02 (W/B)
7 - E01 (W/B)
8 - IGT1 (L/B)
9 - IGT2 (B/W)
10 - IGT3 (W/G)
11 - IGT4 (L/W)
12 - IGT5 (G/B)
13 - IGT6 (G)
14 - OCV- (Y/B)
15 - OCV+ (R/L)
16 - SLT- (L)
17 - SLT+ (W/L)
18 - VC (B/Y)
19 - THW (G/B)
20 - THA (W/R)
21 - VTA (R/Y)
22 - PR (P/L)
23 - IGF (B/Y)
24 - INJF (G/W)
25
26 - G2 (G)
27 - NE+ (L)
28 - E2 (BR)
29
30 - OIL (G/R)
31 - VTA2 (B/R)
32 - PB (G)
33
34 - NE- (R/Y)

B88 (K)

1 - KNK2 (W)
2 - KNK1 (B)
3 - HT2A (L)
4 - HT1A (Y/B)
5 - #60 (R/L)
6 - PRG (L/R), VSV
7 - E1 (BR)
8
9 - STA (L)
10 - S4 (W/R)
11 - S3 (R/Y)
12 - S2 (B/W)
13 - S1 (G/B)
14
15 - ACIS (Y/G), VSV
16 - SLU- (W/G)
17 - SLU+ (G/W)
18 - SLN- (Y/B)
19 - SLN+ (G/Y)
20
21
22 - OX2A (W)
23 - OX1A (B)
24 - PIM (G)
25 - LCK1 (L/B)
26 - NCO+ (Y/R)
27 - SP2+ (L/Y)
28 - EC (W/B)
29 - PSP (R)
30
31
32
33
34 - NCO- (W/R)
35 - SP2- (R/L)

B 89
(2JZ－FSE)乳白色



u

B89 (L)

1 - M- (R)
2 - M+ (G)
3 - ME01 (BR)
4
5 - FP- (Y)
6 - FP+ (L)
7 - BFP (W), จาก FP
8 - TCV (LG), VSV
9 - EGR4 (G/B)
10 - EGR3 (R/L)
11 - EGR2 (P)
12 - EGR1 (R)
13
14
15
16 - IREL (R/Y)
17 - GE01
18
19
20
21 - RL (B/R)
22 - MOPS (L/W)
23
24
25
26
27
28
29
30
31
32
33
34

UZ Engine

TOYOTA

1UZ – FE

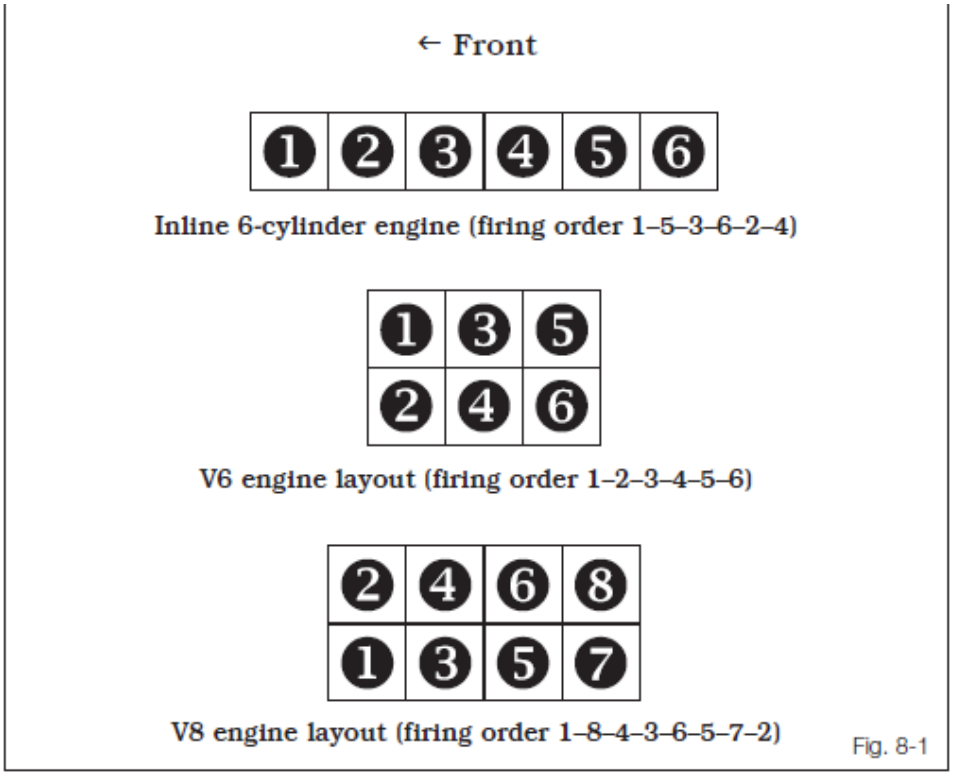
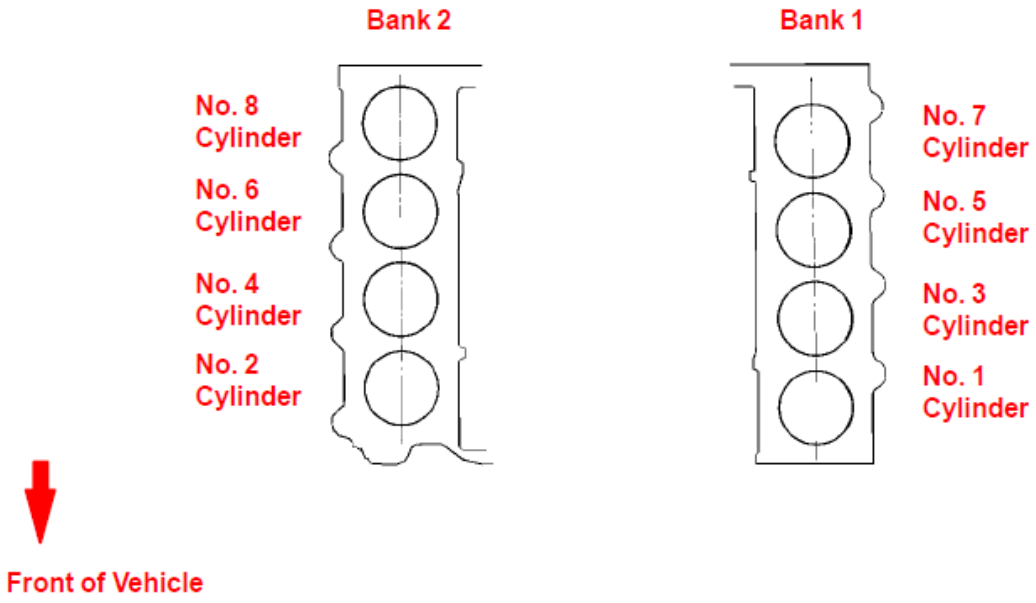
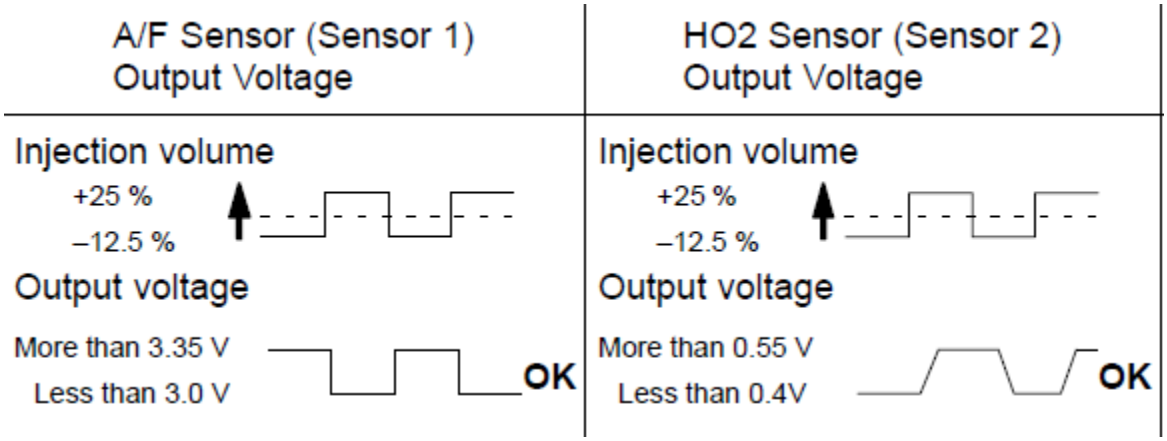


Fig. 8-1

1UZ–FE, 2UZ–FE and 3UZ–FE Engine Bank Identification





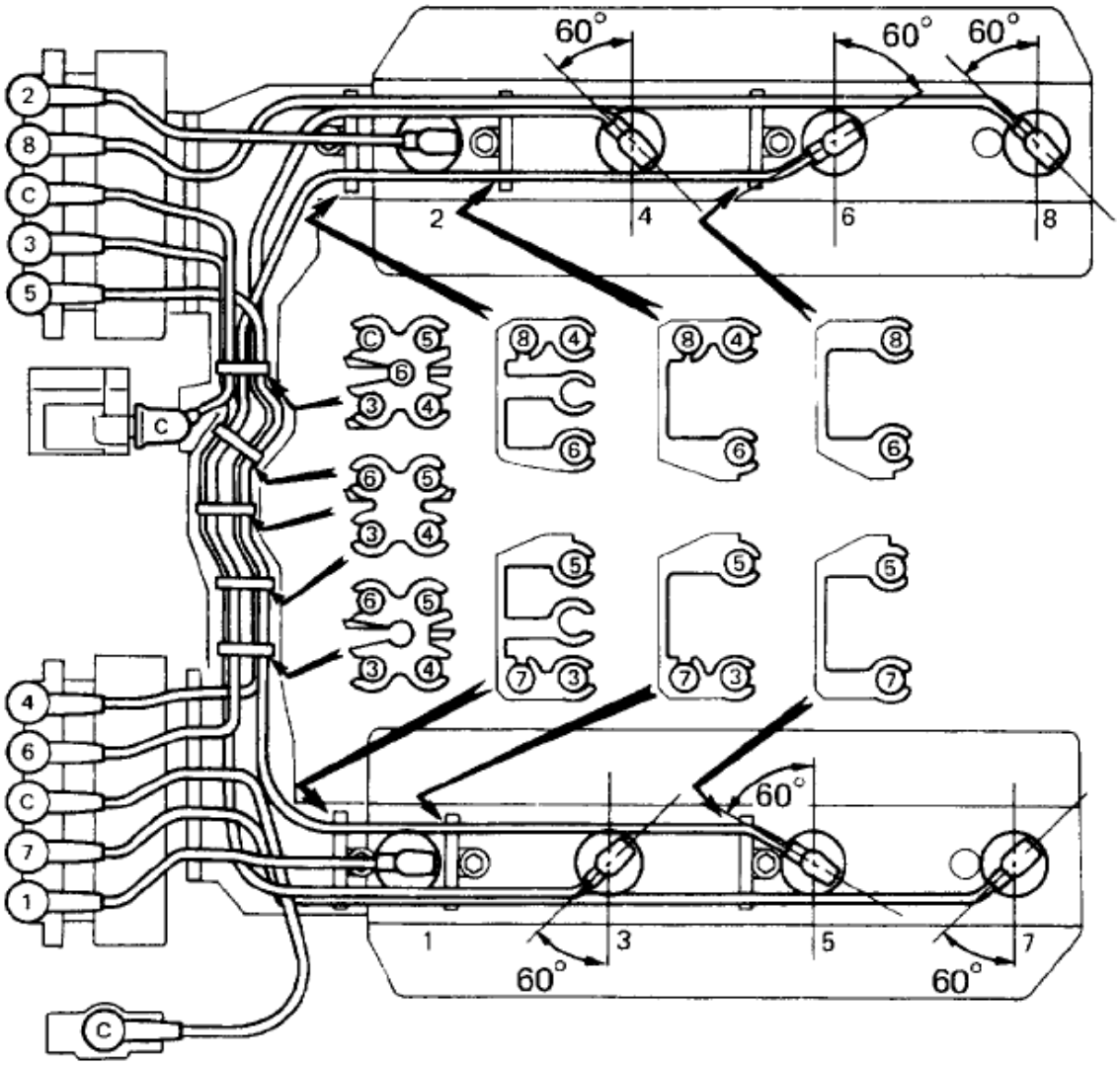
เครื่องมีหลายรุ่น

ปี 1989-1991 ปลั๊ก ECU บาง (2ชั้น) โลโก้กลางเครื่องเป็นเครื่องหมาย V8
ปี 1991-1992 ปลั๊ก ECU บาง (2ชั้น) โลโก้กลางเครื่องเป็นเครื่องหมายโตโยต้าทรงลูกโลก
ปี 1992-1993 ปลั๊ก ECU หนา (3ชั้น สีเหลือง) โลโก้กลางเครื่องเป็นเครื่องหมายโตโยต้าทรงลูกโลกกรอบพลาสติกดำ ตรงกลางด้านหน้าโลโก้พิมพ์นูนว่า 1UZ-FE
ปี 1994-1997 ปลั๊ก ECU หนา (3ชั้น สีเทา) กล่อง ECU แยก โลโก้กลางเครื่องเป็นเครื่องหมายโตโยต้าทรงลูกโลก มีฝาครอบเครื่อง เต็มตัว
ปี 1998-2000 เป็นตัว VVVTi direct coil ท่อไอดีอยู่กลางเครื่องด้านหน้า มีฝาครอบเครื่องเต็มตัว

ยี่ห้อ รุ่น รหัสเครื่องยนต์ แบบ ปี ค.ศ.ที่ผลิต/นำเข้า
Lexus
Ls400 1uz-fe Ucf20r-aepgkq 1992 - 1997
Ls400 1uz-fe Ucf20r-aeagkq 1997 - 2000
Ls430 3uz-fe Ucf30r-aeagkw 2000 - 2003
Ls430 3uz-fe Ucf30r-aetgkw 2003 - ปัจจุบัน
Lx470 2uz-fe Uzj100r-gnpgkq 2000 - ปัจจุบัน

รุ่น จำนวนสูบ แบบฝาสูบ กระบอกสูบxช่วงชัก ความจุ แรงม้า แรงบิด เฟืองท้าย ขับเคลื่อน เกียร์ หมายเหตุ
1UZ FE V8 DOHC 32 V. 87.5x82.5 3968 CC. 280/5400 41/4000 3.916 FR 4 AT CELSIOR,CROWN MAJESTA
1UZ FE V8 DOHC 32 V. 87.5x82.5 3965 CC. 260/5400 36/4600 ---
2UZ FE V8 DOHC 32 V. 94x84 4663 CC. 235/4800 43/3600 3.916 FR 4 AT VX100
3UZ FE V8 DOHC 32 V. 91x82.5 4293 CC. 283/5600 43.8/3500 3.916 FR 4 AT LEXUS GS 430

วาล์วน้ำ ใช้ของ Mitsubishi Strada2800 (K67) รหัส ME191593 ตัวละ 750 บาท เปิดน้ำที่อุณหภูมิ 76 องศา (ของเดิมที่เปิดที่ 82 องศา)


60°
60°
60°
2
4
6
8
60°
1
3
5
7
60°
60°

1UZ – FE , LS400 - 1992 (89661-50102) ปลั๊กบาง,ฉีดรวม
4 A/T (A341E) 6 เส้น , Hydraulic Control กล่องแยก

26 P (D)

E01 (W/B)	# 10 (Y)	# 20 (B/Y)	S1 (R)	S2 (W)	ISC1 (G)	ISC2 (Y/R)	ISC3 (G/Y)	ISC4 (L/W)	STJ (B/R)	NCO+ (Y)	-	-
E02 (W/B)	# 30 (R)	# 40 (L)	A/D	PR (Y/B)	EGR (G/R)	HT1 (R)	HT2 (Y)	DG (G/B)	STJ1 (B/R)	NCO- (L)	SLN- (GR)	SLU- (B)

16 P (B)

NE+ (Y)	G1+ (B)	G2+ (G)	IGT1 (B/W)	VF1 (GR)	KNK1 (B)	IGF1 (Y/G)	IDL1 (G)
NE- (R)	G- (W)	-	IGT2 (BR/Y)	VF2 (L/R)	KNK2 (B)	IGF2 (Y/B)	IDL2

22 P (C)

VC (L/R)	SP2+ (G)	TE1 (R/B)	KS (Y/G)	THG (R/G)	OXL1 (B)	THW (R/L)	VTA1 (Y)		STA (B)	IGSW (B/O)
E1 (BR)	SP2- (R)	TE2 (R/W)	SPD (V/W)	E2 (BR)	OXR1 (B)	THA (Y/B)	VTA2 (Y/B)	NSW (B/W)	+ B (B/R)	+ B (B/R)

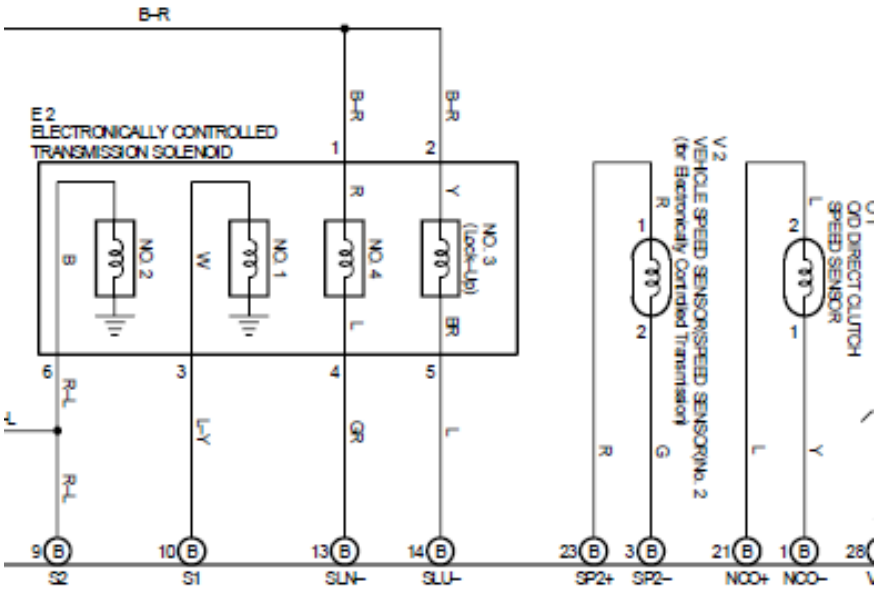
26 P (A)

VTO1	VTO2	OXR2 (Y)	TR	L3	FC (G/B)	ACMG (W)	FPR (G/R)	W (Y/R)	MREL (B/O)	OD2 (L/Y)	OD1 (V/R)	
BATT (B/Y)	NEO	OXL2 (G)	A/C (B)	L1	L2	KD (G/Y)	B/K (G/W)	R (R/B)	PWR (L/W)	L (G/B)	2 (G)	

 # 10 (1 , 7) - Y
 # 20 (2 , 8) - B/Y
 # 30 (4 , 6) - R
 # 40 (3 , 5) - L
KS - Air Flow Sensor 5 V.

A/T Solenoid 6 เส้น





Air Flow Sensor 5 V.



E2 (BR)	THA (Y/B)	KS (Y/G)	VC (L/R)	E2 (BR)

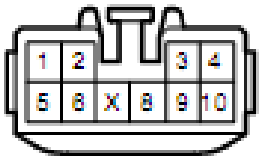
Power Steering ECU



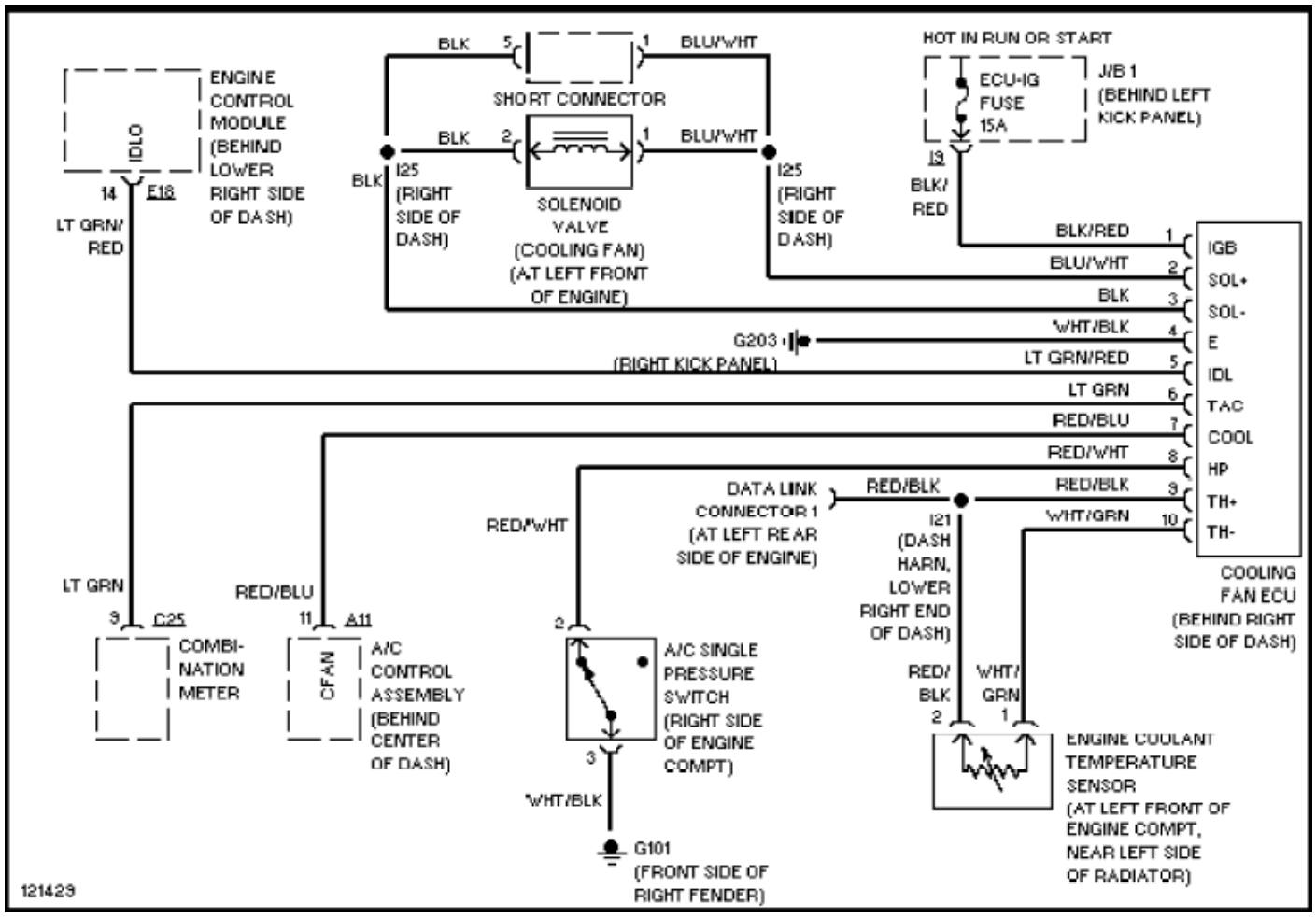
SOL+ (LG/B)	E1 (W/B)	SPD (V/W)	+B (B/R)	SOL- (LG/R)

Hydraulic Fan Control

C12 GRAY



1 - IG	6 - IG-
2 - Solenoid Valve +	7 -
3 - Solenoid Valve -	8 - A/C High Pressure Sw. , -
4 - E1	9 - Engine Coolant Temp Sen
5 - IDL	10 - Engine Coolant Temp Sen



1UZ – FE , LS400-1993 (89661-50170) ปลั๊กหนา , ฉีดรวม 4 A/T 8 เส้น

B - 34 P (หน้าปลั๊ก)

THG (R/G)	IGF2 (Y/B)	SLN- (GR)	SLU- (B)	-	AIRV (Y/G)	# 40 (L)	# 30 (R)	# 20 (B/Y)	# 10 (Y)
S 1 (R)	IGF1 (Y/G)			STA (B)	NSW (B/W)			PR (Y/B)	-
S 2 (W)	VF2 (L/R)	VF1 (GR)	ISC4 (L/W)	ISC3 (G/Y)	ISC2 (Y/R)	ISC1 (G)	IGT1 (B/W)	IGT2 (BR/Y)	PRG (W)
EGR4 (G/O)	EGR3 (G/W)	EGR2 (G/R)	EGR1 (G/B)			IDL2	IDL1 (G)	E02 (W/B)	E01 (W/B)

C - 22 P

VC (L/R)	NCO+ (Y)	NCO- (L)	SP2- (R)	NE+ (B)	NE- (W)
VTA1 (Y)	KS (Y/G)		SP2+ (G)	G1+ (R)	G1- (G)
VTA2 (L/R)	OXL1 (B)	HTQ (Y)	HT1 (R)	G2+ (Y)	G2- (W)
THA (Y/B)	OXR1 (W)		THW (R/L)	-	E2 (BR)

D - 16 P

DI (G/R)	-	W (Y/R)	FPC (G/B)	
TE1 (R/B)	2 (G)			KNK1 (D)
AMTT	L (G/B)	R (R/B)	KNK2 (GR)	
OIL	AML+ (R/L)	AML- (BR/Y)	E11 (BR)	E1 (BR)

A - 28 P

DG (G/B)	OXR2 (Y)	OXL2 (G)	PWR	ACMG (W)	OD2 (L/Y)	OD1	AD
IG.SW (B/O)	ATRP (G)		TE2 (R/W)			SPD (V/W)	MREL (B/O)
BATT (B/Y)	KD (G/Y)	STP (G/W)	L3 (LG/B)	L2 (LG/R)	L1 (LG)	A/C (B)	E03 (BR)
+B (B/R)	+B (B/R)	-		-	-	-	-

#40 (Cyl 3,5) (L)
#30 (Cyl 6,4) (R)
#20 (Cyl 2,8) (B/Y)
#10 (Cyl 1,7) (Y)
KS - Air Flow Sensor 5 V.

A/T Solenoid (8 เส้น)

E 2 GRAY



OIL (Y)	+B (B/R)	+B (B/R)	S1 (R)
E2 (BR)	SLN- (GR)	SLU- (B)	S2 (W)

▶Specifications◀

Model		New	Previous
Type of Transmission		A340E	A341E
Type of Engine		1UZ–FE	←
Items			
Gear Ratios	1st Gear	2.804	2.531
	2nd Gear	1.531	←
	3rd Gear	1.000	←
	Overdrive Gear	0.705	←
	Reverse Gear	2.393	1.880
Fluid Capacity	Liters (US qts, Imp. qts)	8.3 (8.77, 7.3)	←
Type of Fluid		A.T.F. Type T–II	←

▶Specifications◀

Differential Gear Ratio		3.615
Drive Pinion	No. of Teeth	13
Ring Gear	Size	8”
	No. of Teeth	47
No. of Differential Pinion		2

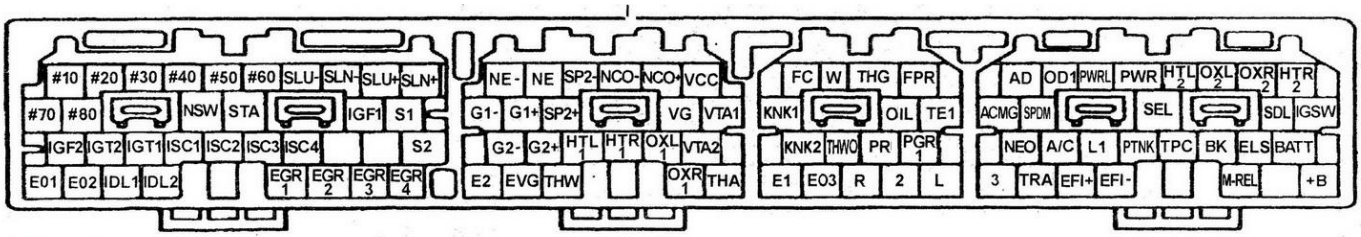
Lexsus LS400 1UZ FE , 4,000 cc
Torque 400 Nm @ 4,000 rpm.
Power 210 kW @ 6,000 rpm.
Gear Ratio
1 = 3.357
2 = 2.18
3 = 1.24
4 = 1.0
5 = 0.753
เฟืองท้าย = 3.266
ยาง 225/60R16

3.916 (For 4 AT)

3.27 (for 5 AT)

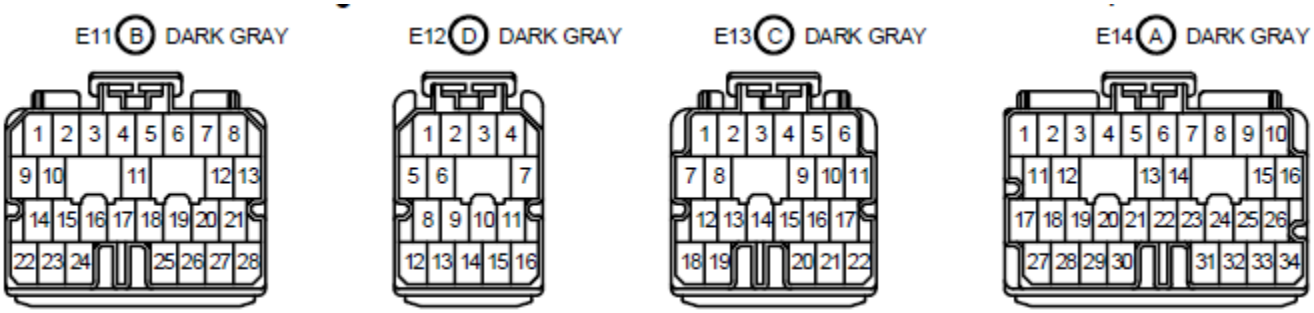
1UZ – FE , LS 400 – 1997 , (89661-50240) ปลั๊กหนา , ฉีดแยก
คันเกียร์สไลด์, 4 A/T 8 เส้น (A340E)- Hydraulic Fan Control , SPDM in box

หลังปลั๊ก



1UZ - FE 1996

หน้าปลั๊ก



C - 34 P (หลังปลั๊ก)

# 10 (Y)	# 20 (B)	# 30 (L)	# 40 (R)	# 50 (G)	# 60 (R/L)	SLU- (B)	SLN- (GR)	SLU+ (B/W)	SLN+ (Y)
# 70 (W)	# 80 (B/W)			NSW (B/Y)	STA (B)			IGF1 (Y/G)	S1 (R)
IGF2 (Y/B)	IGT2 (B/R)	IGT1 (Y)	ISC1 (G/B)	ISC2 (Y/R)	ISC3 (G/Y)	ISC4 (L/W)			S2 (W)
E01 (W/B)	E02 (W/B)	IDL1 (G)	IDL2 (BR)		EGR1 (R/B)	EGR2 (R/W)	EGR3 (R/Y)	EGR4 (R/L)	

B - 22 P

NE- (W)	NE+ (B)	SP2- (R)	NCO- (L)	NCO+ (Y)	VC (L/R)
G1- (G)	G1+ (R)	SP2+ (G)		VG (L/Y)	VTA1 (Y)
G2- (W)	G2+ (Y)	HTL1 (R)	HTR1 (Y)	OXL1 (B)	VTA2 (L/R)
E2 (BR)	EVG (G/W)	THW (R/L)		OXR1 (W)	THA (Y/B)

D - 16 P

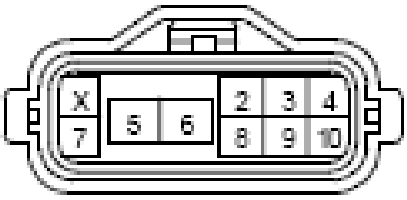
FC (G/B)	W (Y/R)	THG (R/Y)	FPR (G/R)	
KNK1 (B)			OIL (Y)	TE1 (R/B)
KNK2 (GR)	THWO (V)	PR (R/W)	PGR1 (L/B)	
E1 (BR)	E03 (W/B)	R (R/B)	2 (G)	L (G/B)

A - 28 P

A/D (G/W)	OD1 (V/R)	PWRL (L/B)	PWR (L/W)	HTL2 (R)	OXL2 (G)	OXR2 (Y)	HTR2 (L)
ACMG (W)	SPDM (Y)		IMO (Y/B)		SDL (W)	IGSW (B/O)	
NEO (V/R)	A/C (B/R)	L1 (R/B)	PTNK (P/G)	TPC (V/G)	STP (G/R)	ELS (G)	BATT (B/Y)
3 (L/Y)	TRA (B)	EFI+ (W)	EFI- (R)		MREL (B/O)		+B (W)

Neutral Position Switch

P 2 GRAY



*	STA (B/W)	NSW (B)	2 (G)	L (G/B)	IG (R/L)
P (G/W)			R (R/B)	D (G/Y)	N (G/R)

A/T Solenoid (8 เส้น)

E 2 GRAY



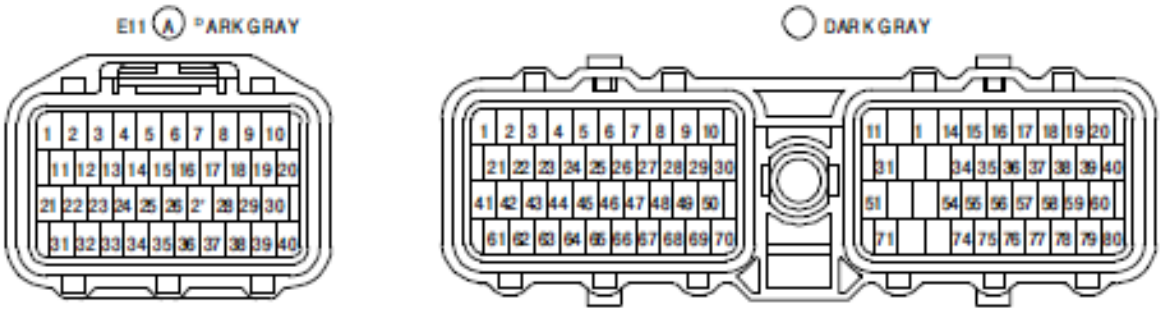
OIL (Y)	SLN+ (Y)	SLU+ (B/W)	S1 (R)
E2 (BR)	SLN- (GR)	SLU- (B)	S2 (W)

Air Flow Sensor 12 V.



+B (B/R)	VG (L/Y)	THA (Y/B)	E2 (BR)	EVG (G/W)

1UZ – FE , SC400 – 1992 ปลั๊กนัตขัน , ฉีดรวม
(89661-24240) 4 A/T 8 สาย(4WD) , A/T 6 สาย (2WD)



40 P -B

		SLN- (R/B)	SLU- (L)			#40 (B/R)	#30 (B)	#20 (B/Y)	#10 (Y)
	ISC4 (L/W)	ISC3 (G/Y)	ISC2 (LG/B)	ISC1 (V/R)	EGR4	EGR3	EGR2	EGR1	
	HTL2	HTR2			IGT2 (BR/Y)	IGT1 (W/R)	IGF1 (Y/G)	IGF2 (Y/B)	
HTL1	HTR1	FPU	EVAP		NSW (B/W)	STA (B)		E02	E01

40 P-B

NCO- (G)		SP2- (V)		G2- (R)	G1- (W)	NE- (R)		S2 (W/R)	S1 (LG)
NCO+ (R)		SP2+ (P)	OIL (L)	G2 (G)	G1 (BR)	NE (Y)	VF2	VF1	
VC (L/R)	VTA2 (L/R)	VTA1 (Y)	THW (G)	THA (Y/B)	THG	OXR1	OXL1	KNK2	KNK1
		IDL2	IDL1	E2 (BR)	KS (Y/G)	OXR2	OXL2	E1	

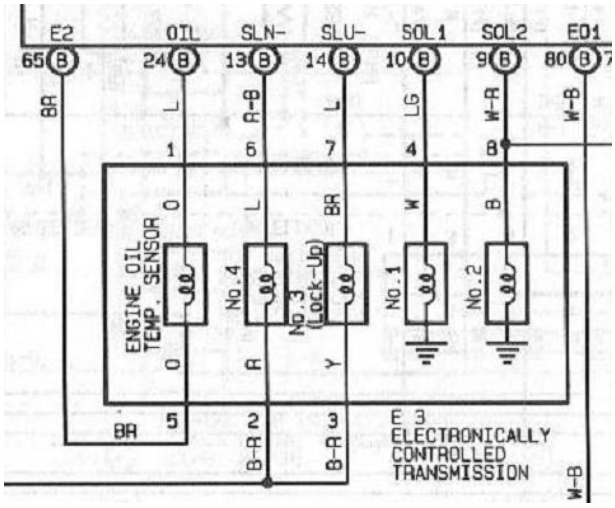
40 P ช่องขวา - A

IGSW (B/O)	SP1 (P)		STP (G/W)		W (L/Y)	R (R/B)		2 (G)	L (W)
AD	OD1 (BR/Y)					TT		TE2	TE1
DI (P)	FPC (R/G)	ACMG (W)	MREL (B/O)				OD2 (GR/R)		
+B (B/R)	+B1 (B/R)	BATT (B/Y)	A/C (L/R)			TR	NEO	VTO2	

#10 - Y
#20 - B/Y
#30 - B
#40 - B/R

S1 - LG
S2 - W/R
SLU- - L
SLN- - R/B
OIL - L
E2 - BR
+B - B/R
+B - B/R

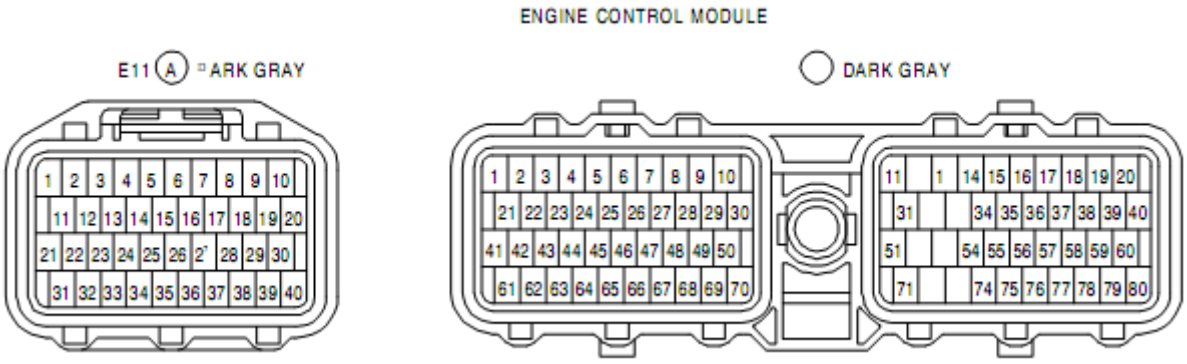
A/T Solenoid (8 เส้น)



A/T Solenoid (6เส้น)

+B	**+B**	**S1**
SLN-	**SLU-**	**S2**

1UZ – FE , SC400-1996 ปลั๊กนัตขัน , ฉีดแยก
4 A/T 8 เส้น



40 P -B

NCO-		SP2- (V)		G2- (R)	G1- (W)	NE- (R)		S2 W/R)	S1 (LG)
NCO+		SP2+ (P)	OIL (L)	G2 (G)	G1 (BR)	NE+ (Y)			
VC (L/R)	VTA2 (Y/L)	VTA1 (Y)	THW (G)	THA (Y/B)	THG (B/R)	OXR1 (B)	OXL1 (W)	KNK2 (B)	KNK1 (B)
			IDL1 (R)	E2 (BR)	VG (L/Y)	OXR2 (W)	OXL2 (R/L)	E1 (BR)	EVG (G/W)

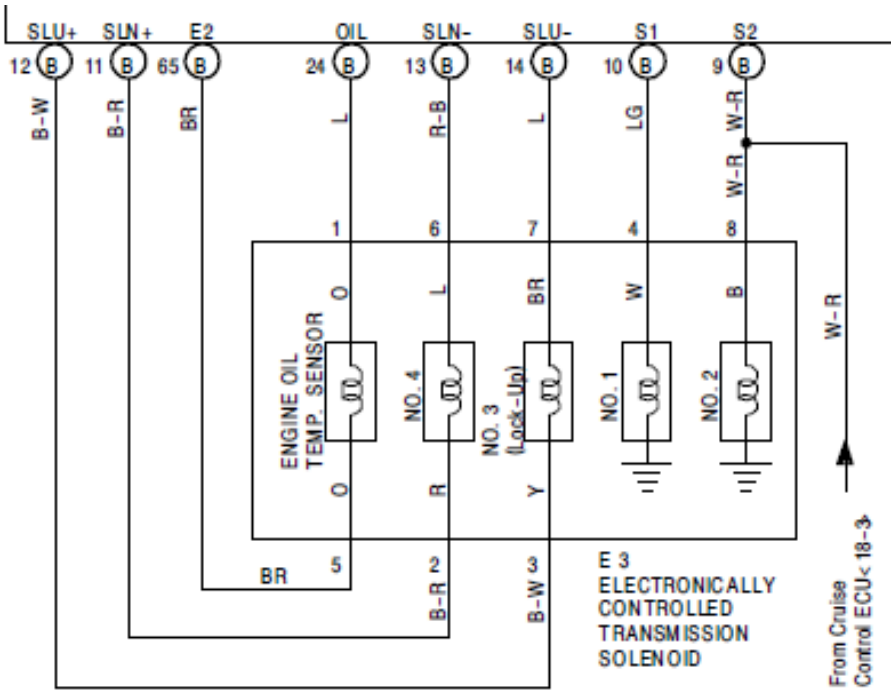
40 P-B

SLN+ (B/R)	SLU+ (B/W)	SLN- (R/B)	SLU- (L)	#60 (R/W)	#50 (L/W)	#40 (B/R)	#30 (B)	#20 (B/Y)	#10 (Y)
	ISC4 (L/W)	ISC3 (G/Y)	ISC2 (LG/B)	ISC1 (V/R)				#80 (B/L)	#70 (Y/R)
PRG (G/B)	EGR4 (W/G)	EGR3 (W/R)	EGR2 (B/O)	EGR1 (B/W)	IGT2 (BR/Y)	IGT1 (W/R)	IGF1 (Y/G)	IGF2 (Y/B)	
PR (L/R)	HTL1 (Y/L)	HTR1 (Y/R)	HTL2 (BR/W)	HTR2 (R)	NSW (B/W)	STA (B)	E03 (W/B)	E02 (W/B)	E01 (W/B)

40 P ช่องขวา - A

IGSW (B/O)	SPD (P)	SDL (B)	STP (G/W)	ELS (G)	W (L/Y)	R (L/R)		2 (G)	L (W)
	OD1 (BR/Y)						PWR (G/O)		TE1 (LG)
DI (P)	FPC (R/G)	ACMG (W)	MREL (B/O)				OD2 (GR/R)		
+B (B/R)		BATT (B/Y)	A/C (L/R)			TRC (Y/R)	NEO (P/L)	VTO2 (Y/L)	VTO1 (V/Y)

A/T Solenoid (8 เส้น)



1UZ-FE , VVTI

Celsior 89661-50450 07/1997 - 08/1998 UCF2#
Celsior 89661-50520 08/1998 - 01/1999 UCF2#
Celsior 89661-50521 01/1999 - 11/1999 UCF2#
Celsior 89661-50522 11/1999 - 08/2000 UCF2#

Majesta 89661-3A590 09/1999 - 08/2001 UZS171,175
Majesta 89661-3F170 08/2001 - 06/2004 UZS171,175
Majesta 89661-3A310 07/1997 - 09/1999 UZS157

CELSIOR,CROWN MAJESTA

1UZ FE V8 DOHC 32 V. 87.5x82.5 3968 CC. 280/5400 41/4000 3.916 FR 4

1UZ FE V8 DOHC 32 V. 87.5x82.5 3965 CC. 260/5400 36/4600 ---
2UZ FE V8 DOHC 32 V. 94x84 4663 CC. 235/4800 43/3600 3.916 FR 4 AT VX100
3UZ FE V8 DOHC 32 V. 91x82.5 4293 CC. 283/5600 43.8/3500 3.916 FR 4 AT LEXUS GS 430

1UZ – FE , VVTi – Celsior LS400 (UCF20)1997-2000

(89661-50521 , 89661-50522) 5 A/T 12 เส้น (A650E) , Hydraulic Fan

IMO รวมกล่อง– คันเกียร์สไลด์ 2 ชั้น – Big air flow – Big coil– ยอยยาง



E 14 - C (31 P)หน้าปลั๊ก

#30 (L)	#40 (R)		#50 (G)	#60 (R/L)	#70 (W)	#80 (B/W)	M- (L)	M+ (Y)	ME01 (W/B)	
G2 (Y)	IGT1 (LG)	IGT2 (B)	IGT3 (L)	IGT4 (R)	IGT5 (G)	IGT6 (R/L)	KNKR (GR)	KNKL (B)	OCV- (L/B)	OCV+ (L/W)	E01 (W/B)
NE- (W)	NE+ (B)	*	IGT7 (Y/G)	IGT8 (B/W)		IGF1 (Y/B)	IGF2 (Y)		ACIS (W/L)	GE01	E02 (W/B)

E 13 - D (24 P)

E03 (W/B)	VC (B/R)		HTR1 (Y)	HTL1 (R)	#10 (Y)	#20 (B)	PRG (L/B)	
CL- (G/B)	VPA2 (R/B)	VG (L/Y)	OXR1 (W)	OXL1 (B)	VTA (P/L)	THW (R/L)	VVR+ (Y)	VVL+ (R)
E1 (W/B)	E2 (BR)	EVG (G/W)	VTA2 (B/L)	VPA (P)		THA (Y/B)	VVR- (L)	VVL- (G)

E 12 - E (17 P)

S1 (R)	S2 (W)	S3 (G)	NCO+ (Y)	SP2+ (G)	S4 (G/R)
SLU+ (L/Y)	SLN+ (Y)	SLT+ (G/W)	NCO- (L)	SP2- (R)	CL+ (L/R)
SLU- (B)	SLN- (L)	SLT- (G/B)		*	OIL (G/Y)

E 11 - F (28 P)

*	R (R/B)	2 (G/B)	3 (G)	TC (LG/B)	STP (L/B)		HTR2 (V/W)	OX1B (R)	L1 (V/Y)
TPC (W/G)	PWR (V/G)	*	ACMG (W)	*	P (G/W)	TACH (B/Y)	STA (B)	OXL2 (G)	OCR+ (L/W)
N (G/R)	RSPD (V)	PTNK (B/L)		CCS (V/R)	*	MOL (Y/R)	*	OXR2 (Y)	OCR- (L)

E 15 - A (22 P)

BATT (B/Y)	*	SNW1 (L/R)	FPR (G/R)	FC (G/B)		W (Y/R)	+BM (L/Y)
+B1 (W)	IGSW (B/O)	MREL (LG)	SIL (L)	*	TRC+ (L)	ENG+ (BR)	*
+B (W)	*		*	*	TRC- (P)	ENG- (Y)	NEO (O)

E16 - B (26 P)

D (G/Y)	*	IMLD (V/R)	EOM (W/B)	HP (LG)	TH- (BR/W)	TH+ (GR)	SOL- (R/L)	SOL+ (L/B)	*	MPX1 (P/L)	*	*
ST1- (B/Y)	*	L (Y/B)	TXCT (R)	CODE (R/W)	RXCK (R/B)	KSW (Y)	LCK1 (W/G)	TAM (L/W)	PRE (L/B)	MPX2 (P/L)	4 (L/Y)	RL (P)

RL - Alternator

MPEX1 - Body ECU (P/L) ขั้ว B 8 (16)
MPEX2 - A/C ECU (P/L) ขั้ว MPEX- , A 18 (14)
ACMG , LCK1 , TAM , PRE - A/C System
PWR , SNW1 -
HP , TH+ , TH- , SOL+ , SOL- - Hydraulic Fan Control

RSPD - Shift Lock ECU

Body ECU – 89221-50100

OXR1=>OX2A (front right)	KNKR=>KNK2
OXL1=>OX1A (front left)	KNKL=>KNK1

Air Flow Sensor 12 V. (big air flow)

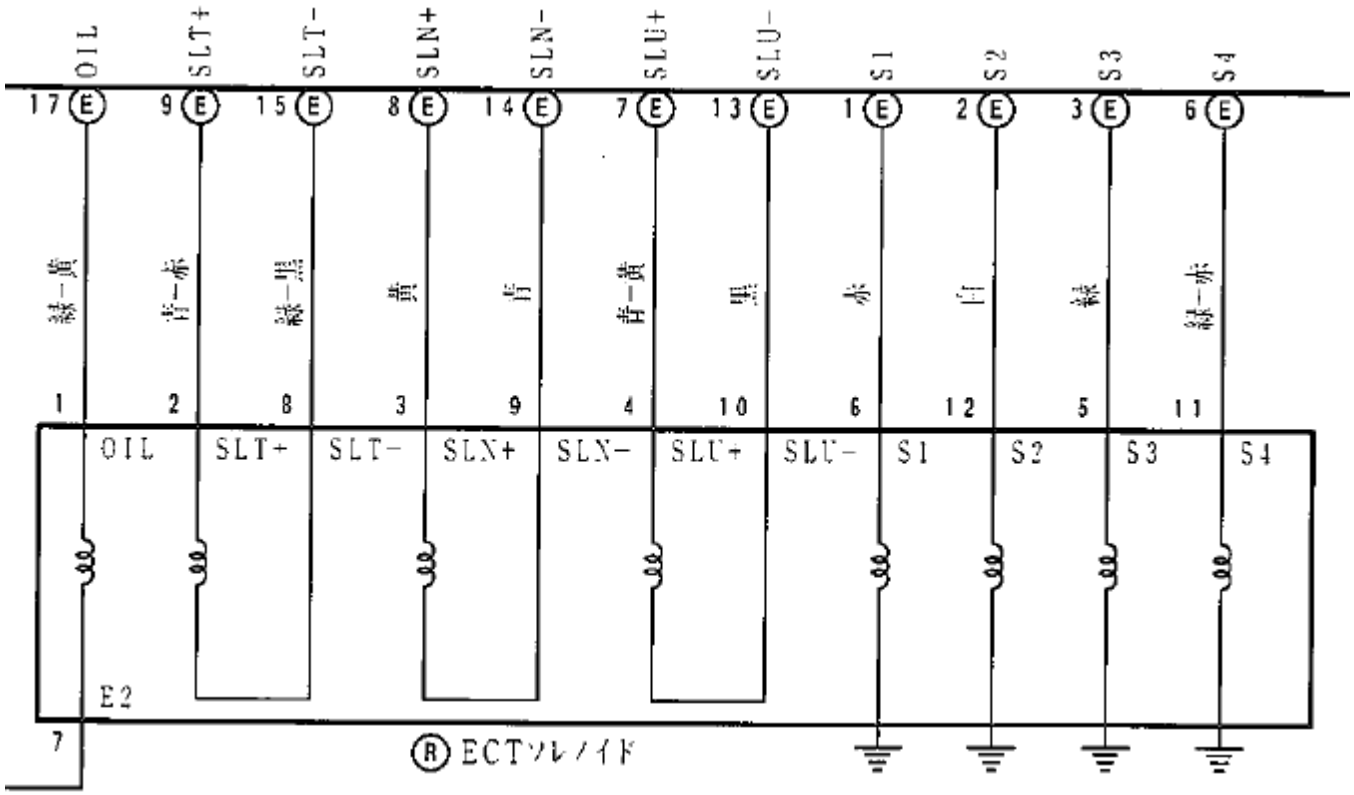


THA (Y/B)	E2 (BR)	E2G (G/W)	+B (W)	VG (L/Y)

5 A/T Solenoid 12 เส้น



1 - OIL	7 - E2
2 - SLT+	8 - SLT-
3 - SLN+	9 - SLN-
4 - SLU+	10 - SLU-
5 - S3	11 - S4
6 - S1	12 - S2

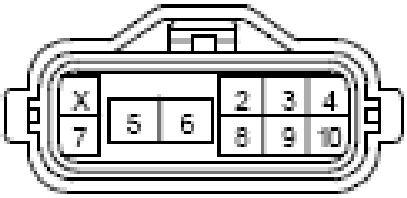


Shift Lever Position	Gear Position	S1	S2	S3	S4	C_0	C_1	C_2	B_0	B_1	B_2	B_3	B_4	F_0	F_1	F_2
P	Park	ON	OFF	ON	OFF	○										
R	Reverse	ON	OFF	OFF	OFF			○	○				○			
N	Neutral	ON	OFF	ON	OFF	○										
D	1st	ON	OFF	OFF	OFF	○	○							○		○
	2nd	ON	ON	OFF	OFF	○	○					○		○		
	3rd	OFF	ON	OFF	OFF	○	○				○			○	○	
	4th	OFF	OFF	ON	OFF	○	○	○			○			○		
	5th	OFF	OFF	OFF	ON		○	○	○		○					
4	1st	ON	OFF	OFF	OFF	○	○							○		○
	2nd	ON	ON	OFF	OFF	○	○					○		○		
	3rd	OFF	ON	OFF	OFF	○	○				○			○	○	
	4th	OFF	OFF	ON	OFF	○	○	○			○			○		
3	1st	ON	OFF	OFF	OFF	○	○							○		○
	2nd	ON	ON	OFF	OFF	○	○					○		○		
	3rd	OFF	ON	ON	OFF	○	○			○	○			○	○	
2	1st	ON	OFF	ON	OFF	○	○							○		○
	2nd	ON	ON	OFF	OFF	○	○					○		○		
L	1st	ON	OFF	OFF	OFF	○	○						○	○		○

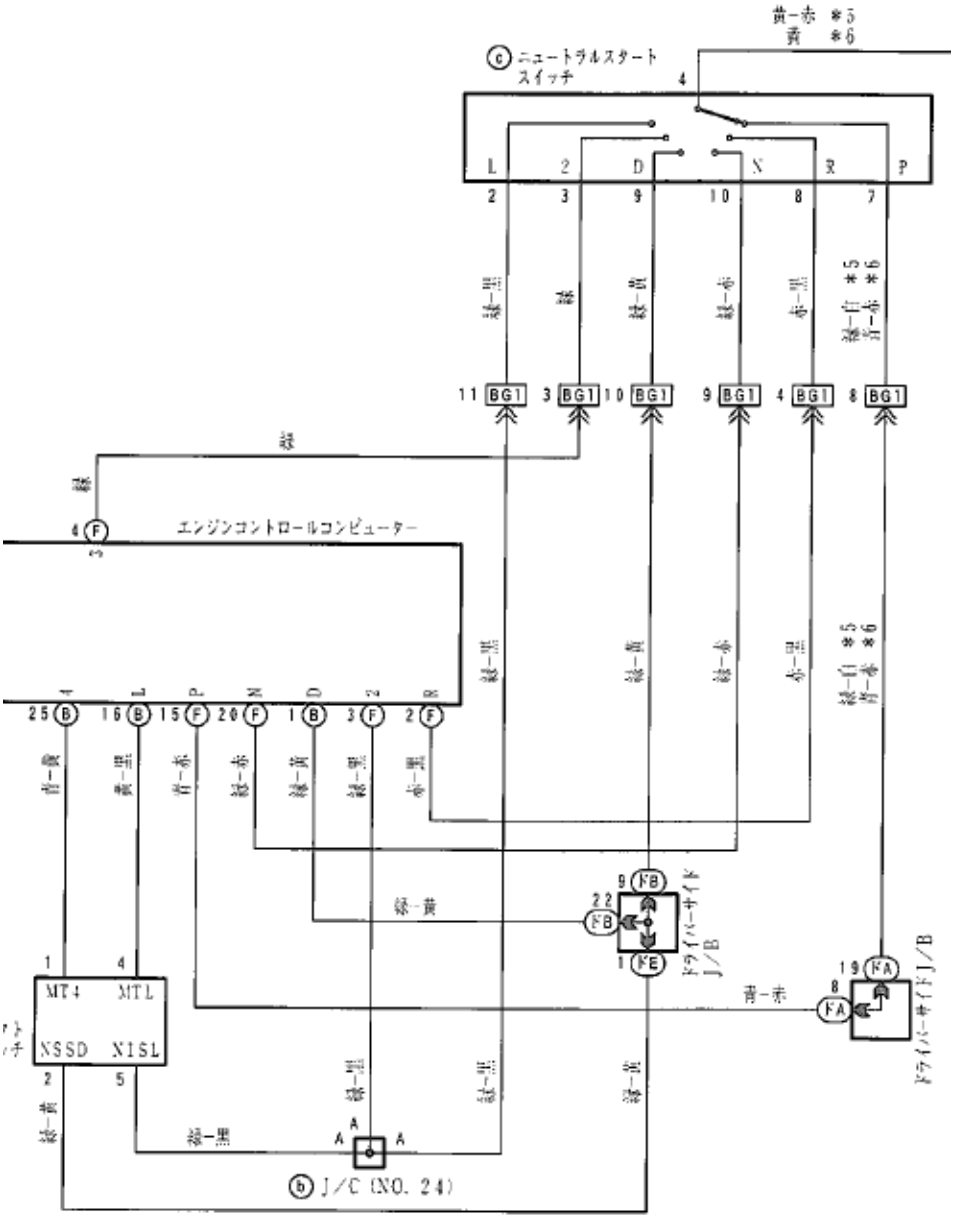
○ : Operating

A/T Position Sw

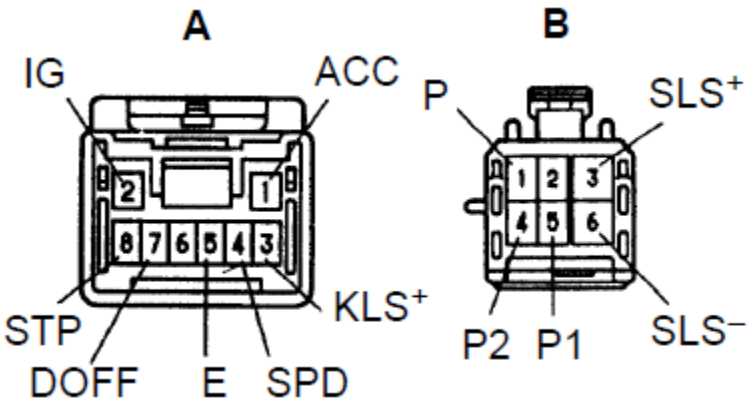
P2 GRAY



*			2 (G)	L (G/B)	IG (L/R)
P (G/W)	STA (B/W)	NSW (B)	R (R/B	D (G/Y)	N (G/R)



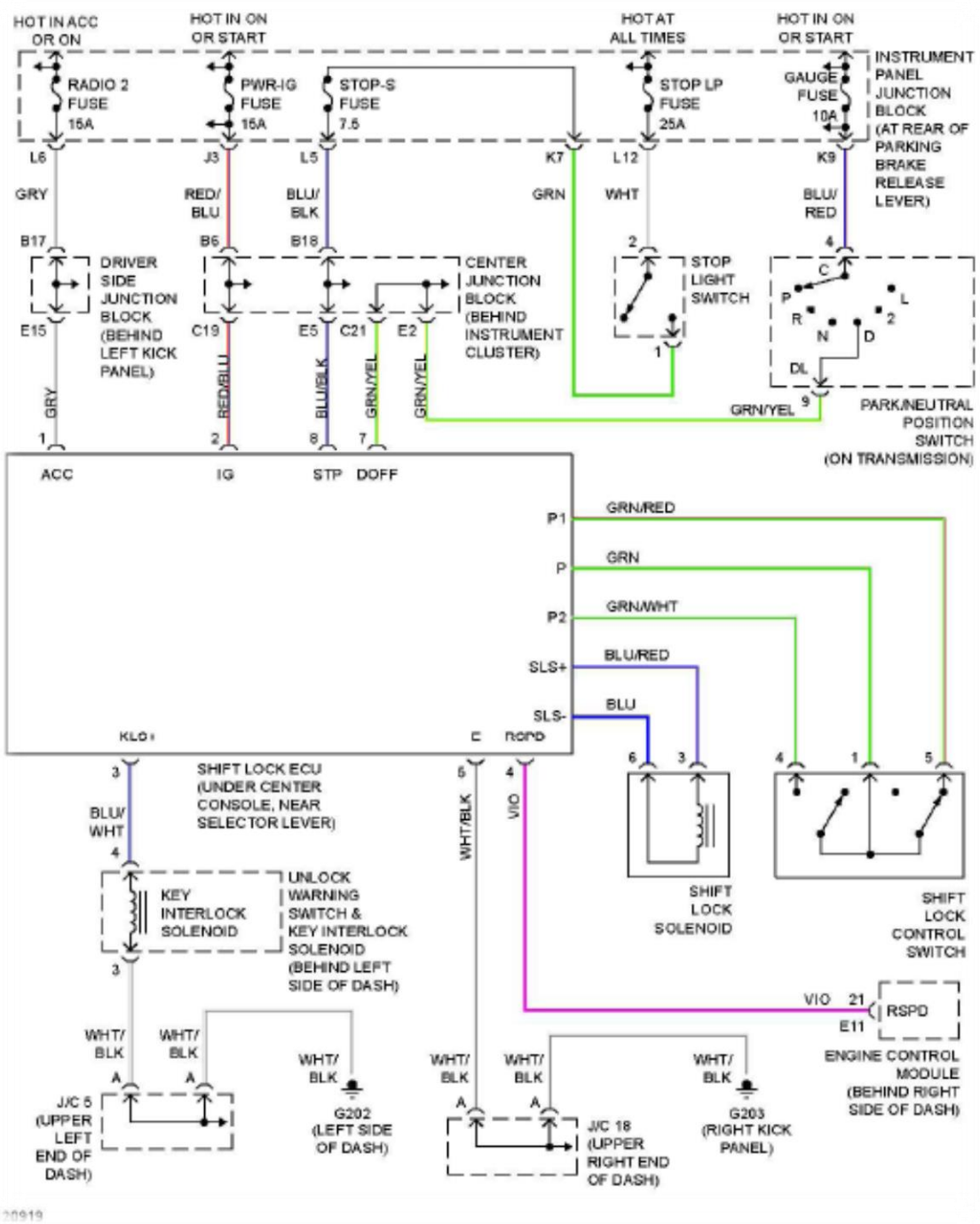
Shift Lock Control ECU



A	
1	ACC (GR)
2	IG (R/L)
3	Key Interlock Sol. (L/W) , สวิทช์กุญแจ
4	RSPD , Eng ECU (V)
5	E1 (W/B)
6	
7	D (G/Y)
8	STP (L/B)

B	
1	Shift Lock Control Sw. (G)
2	
3	Shift Lock Sol. + (L/R)
4	Shift Lock Control Sw. (G/W)
5	Shift Lock Control Sw. (G/R)
6	Shift Lock Sol.- (L)

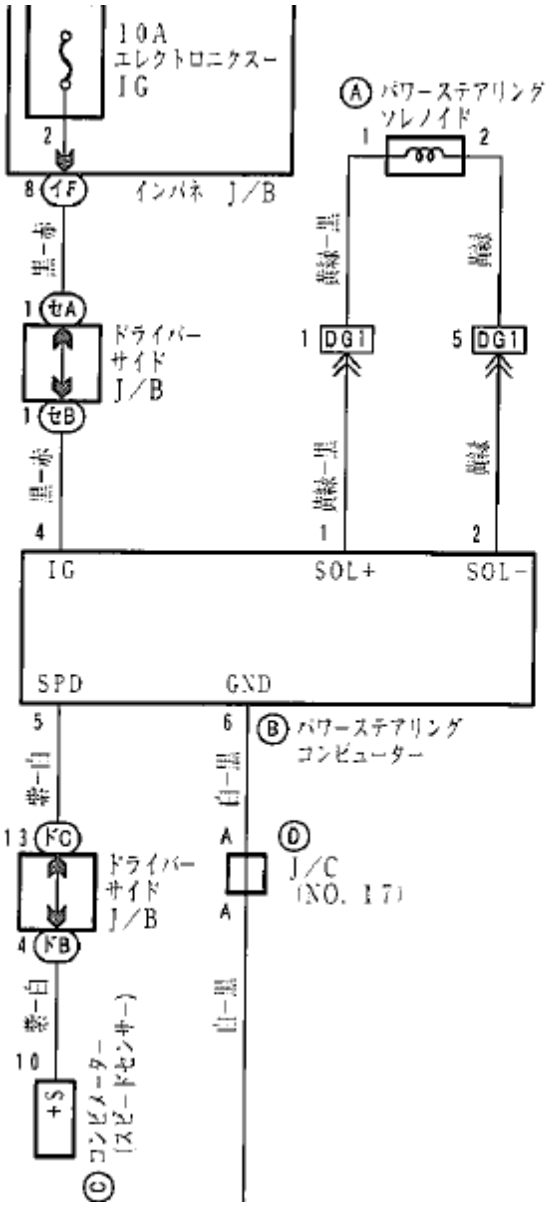
A/T Position Sw.	
1	*
2	2 (G)
3	L (G/B)
4	IG (L/R)
5	STA (B)
6	NSW (B/W)
7	P (G/W)
8	R (R/B)
9	D (G/Y)
10	N (G/R)


HOT IN ACC OR ON
HOT IN ON OR START
HOT AT ALL TIMES
HOT IN ON OR START
RADIO 2 FUSE 15A
PWR-IG FUSE 15A
STOP-S FUSE 7.5
STOP LP FUSE 25A
GAUGE FUSE 10A
INSTRUMENT PANEL JUNCTION BLOCK (AT REAR OF PARKING BRAKE RELEASE LEVER)
L6
J3
L5
K7
L12
K9
GRY
RED/ BLU
BLU/ BLK
GRN
WHT
BLU/ RED
B17
B6
B18
2
4
DRIVER SIDE JUNCTION BLOCK (BEHIND LEFT KICK PANEL)
CENTER JUNCTION BLOCK (BEHIND INSTRUMENT CLUSTER)
STOP LIGHT SWITCH
E15
C19
E5
C21
E2
1
GRY
RED/BLU
BLU/BLK
GRN/YEL
GRN/YEL
GRN/YEL
9
PARK/NEUTRAL POSITION SWITCH (ON TRANSMISSION)
1
2
8
7
ACC
IG
STP
DOFF
P1
GRN/RED
P
GRN
P2
GRN/WHT
SLS+
BLU/RED
SLS-
BLU
KLO+
C
RSPD
3
5
4
SHIFT LOCK ECU (UNDER CENTER CONSOLE, NEAR SELECTOR LEVER)
BLU/ WHT
WHT/BLK
VIO
6
3
4
1
5
SHIFT LOCK SOLENOID
SHIFT LOCK CONTROL SWITCH
4
KEY INTERLOCK SOLENOID
UNLOCK WARNING SWITCH & KEY INTERLOCK SOLENOID (BEHIND LEFT SIDE OF DASH)
3
VIO
21
RSPD
E11
ENGINE CONTROL MODULE (BEHIND RIGHT SIDE OF DASH)
WHT/ BLK
WHT/ BLK
WHT/ BLK
A
A
J/C 5 (UPPER LEFT END OF DASH)
G202 (LEFT SIDE OF DASH)
WHT/ BLK
WHT/ BLK
WHT/ BLK
A
A
J/C 18 (UPPER RIGHT END OF DASH)
G203 (RIGHT KICK PANEL)

PPS ECU

青色 Ⓑ G42





1UZ – FE , VVTi , Crown Majesta (UZS171) 89661-3A590

5 A/T 12 เส้น– IMO รวม – Small air flow – Small coil – พัดลมไฟฟ้า

E 14 , E (31 P)หน้าปลั๊ก

#30 (L)	#40 (R)		#50 (W)	#60 (R)	#70 (G)	#80 (B)	M- (W)	M+ (B)	ME01		
G2 (Y)	IGT1 (L/R)	IGT2 (L)	IGT3 (V)	IGT4 (P/L)	IGT5 (L/Y)	IGT6 (W/L)	IGT7 (LG/B)	IGT8 (L/W)	CL- (P)	CL+ (R)	E01 (W/B)
NE- (W)	NE+ (B)	*	IGF1 (G/B)	IGF2 (R)		KNK2 (W)	KNK1 (B)		ACIS (Y/G)	GE01	E02 (W/B)

E 13 , D (24 P)

OCV+ (W/R)	VC (L/Y)		HT2A (V)	HT1A (B/L)	#10 (Y)	#20 (B/R)	PRG (B/Y)	
OCV- (Y/B)	VG (R/L)	OX2A (B)	OX1A (B)	VVR+ (Y)	VVL+ (R)	THW (B/R)	VPA (G/W)	VPA2 (P)
E1 (BR)	E2 (BR)	EVG (GR)	VVR- (L)	VVL- (G)		THA (Y/B)	VTA (R/Y)	VTA2 (L/B)

B 13 , C (17 P)

S1 (L/W)	S2 (G/Y)	S3 (R/Y)	NCO+ (R)	SP2+ (L/Y)	S4 (Y/B)
SLU+ (G/W)	SLN+ (P)	SLT+ (B/Y)	NCO- (G)	SP2- (R/L)	OC2+ (W/G)
SLU- (L/R)	SLN- (L/B)	SLT- (R/B)		OC2- (Y/R)	OIL (G/R)

E 11 , F (28 P)

P (R/W)	R (R/B)	N (G/R)	D (R)	3 (G/Y)	2 (G/B)				
						WFSE (P/L)	RL (B/R)		
					MOPS (LG/B)		LCK1 (GR)		

E 15 , A (22 P)

BATT (B/Y)	ACMG (B/Y)	TC (V)	SIL (R)	IMLD (Y/R)		W (R/L)	+BM (P)
+B (B/R)	IGSW (B/W)	MREL (B)	KSW (R)	TACH (W)	TRC+ (BR)	ENG+ (B)	NEO (G)
+B1 (B/R)	FC (G/Y)		MPEX2 (GR/B)	EOM (W/B)	TRC- (Y)	ENG- (W)	EC (W/B)

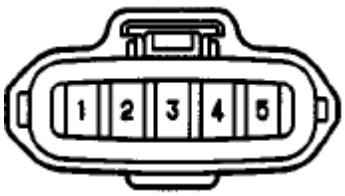
E 16 , B (26 P)

4 (O)	L (L/W)	-	-	-	-	-	TAM (G/Y)	OX2B (R)	HT2B (GR/B)	OX1B (Y)	HT1B (GR/R)	RDEF (G/B)
FPR (B/R)	STA (G)	STP (V)	ST1- (B/O)	CCS (L/Y)	WSH (L/O)	-	MPX1 (GR/B)	TXCT (L/R)	CODE (G/B)	RXCK (B/W)	CRGL (L/R)	CRGR (L)

OXR1=>OX2A (front right)
OXL1=>OX1A (front left)

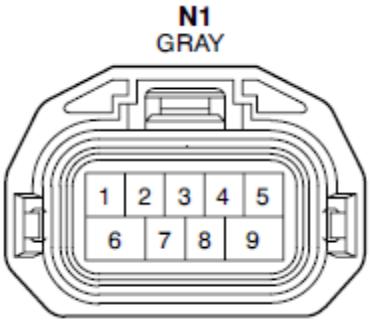
KNKR=>KNK2
KNKL=>KNK1

Air Flow Sensor 12 V. (small air flow)



+B (B/R)	EVG (GR)	VG (R/L)	THA (Y/B)	E2 (BR)

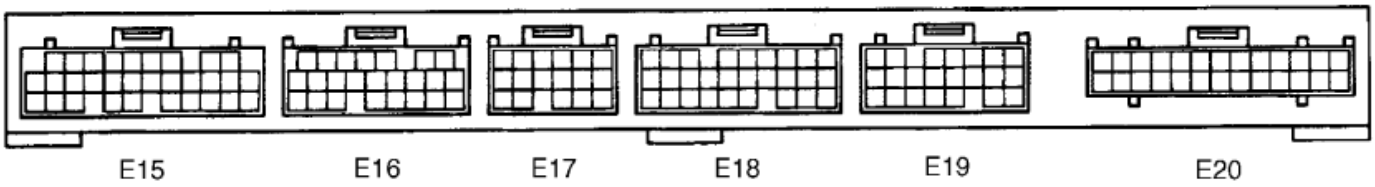
A/T Position Sw.



P	R	IG	2	N
NSW	D	L	STA	

STA - E1

1UZ – FE , VVTi – SC400 (UZZ31) , 1998-2001
5 A/T 12 เส้น – IMO – Fuel Pump ECU



E 15 , D (31 P)

#30 (B)	#40 (B/R)		#50 (W/L)	#60 (R/W)	#70 (L/R)	#80 (G)	M- (G)	M+ (R)	ME01 (W/R)		
G2 (L)	IGT1 (R/W)	IGT2 (W/R)	IGT3 (Y/G)	IGT4 (R/Y)	IGT5 (P)	IGT6 (G/R)	KNKR (W)	KNKL (W)	OCV- (R/B)	OCV+ (B/W)	E01 (W/B)
NE- (W)	NE+ (B)		IGT7 (LG)	IGT8 (L/B)		IGF1 (G/B)	IGF2 (L/R)		ACIS (L/W)	GE01 shield	E02 (W/B)

E 16 , C (24 P)

E03 (BR)	VC (L/B)		HTR (R/W)	HTL (L)	#10 (Y)	#20 (R)	PRG (G/R)	
CL- (L/Y)	VPA2 (R/L)	VG (L/W)	OXR1 (B)	OXL1 (W)	VTA (Y)	THW (LG)	VVR+ (B/R)	VVL+ (R)
E1 (W/R)	E2 (BR)	EVG (G/W)	VTA2 (R/Y)	VPA (Y/R)		THA (Y/G)	VVR- (BR)	VVL- (G)

E 17 , B (17 P) หน้าปลั๊ก

S1 (R/W)	S2 (W)	S3 (G/R)	NCO+ (R)	SP2+ (P)	S4 (L/W)
SLU+ (L/Y)	SLN+ (G/W)	SLT+ (Y/G)	NCO- (G)	SP2- (V)	CL+ (L/B)
SLU- (B)	SLN- (L)	SLT- (L/R)			OIL (Y)

E 18 , A (28 P)

PWRL (L/W)	R (L)	2 (R/W)	3 (G)	TC (Y)	STP (G/W)		HTR2 (R/Y)	HTL2 (BR/W)	
TPC (W/L)	PWR (G/O)	ELS (W/G)	ACMG (W)	IDLO (LG/R)	P (B/W)	TACH (LG)	STA (G/R)	OXL2 (R/L)	OCR+ (W/R)
N (L/Y)	RSPD (G/B)	PTNK (R)		CCS (L)	-	A/C (L/R)	-	OXR2 (G)	OCR- (G/Y)

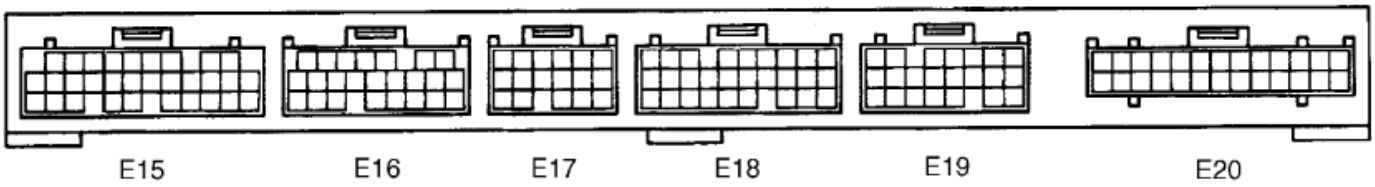
E 19 , E (22 P)

BATT (B/W)	SNWL (L/R)	SNW1 (G/Y)	DI (P)	FPC (R/W)		W (L/Y)	+BM (L/R)
+B (B/R)	IGSW (B/O)	MREL (B/Y)	SIL (B)	-	TRC+ (BR)	ENG+ (B)	-
+B1 (B/R)	-		-	-	TRC- (Y)	ENG- (W)	NEO (P/L)

E 20 , F (26 P)

D (G/Y)	-	IMLD (G/W)	EOM (L/R)						PI (Y/B)	-	CCV (W)	-
STI- (R/L)	-	L (W)	TXCT (G/O)	CODE (B/O)	RXCK (L)	KSW (Y)					4 (R)	

1UZ – FE , VVTi – GS400(UZS160) 1998-2000
5 A/T 12 เส้น+ - , IMO – Fuel Pump ECU



E 2 , D (31 P)

#30 (L)	#40 (R)		#50 (W)	#60 (R/L)	#70 (G)	#80 (B)	M- (R)	M+ (G)	ME01 (BR)		
G2 (Y)	IGT1 (Y/B)	IGT2 (Y/G)	IGT3 (R/W)	IGT4 (B/R)	IGT5 (L/Y)	IGT6 (R/L)	KNKR (B)	KNKL (GR)	OCV- (L/B)	OCV+ (W/R)	E01 (W/B)
NE- (L)	NE+ (W)		IGT7 (Y/R)	IGT8 (L/W)		IGF1 (G/B)	IGF2 (R)		ACIS (B/L)	GE01 shield	E02 (W/B)

E 3 , C (24 P)

E03 (W/B)	VC (L/Y)		HTR (R/Y)	HTL (Y/G)	#10 (Y)	#20 (B/R)	PRG (B/Y)	
CL- (Y/R)	VPA2 (Y/B)	VG (R/L)	OXR1 (W)	OXL1 (B)	VTA (R/B)	THW (B/R)	VVR+ (Y)	VVL+ (R)
E1 (BR)	E2 (BR)	EVG (GR)	VTA2 (L/B)	VPA (L/W)		THA (W/R)	VVR- (L)	VVL- (G)

E 4 , B (17 P) หลังปลั๊ก

S1 (L)	S2 (G/Y)	S3 (Y/G)	NCO+ (R)	SP2+ (L/Y)	S4 (Y)
SLU+ (G/W)	SLN+ (P)	SLT+ (G/B)	NCO- (G)	SP2- (R/L)	CL+ (G/R)
SLU- (L/R)	SLN- (L/B)	SLT- (R/B)			OIL (G/R)

E 5 , A (28 P)

	R (R/B)	2 (G/B)	3 (G)	TC (P/B)	STP (G/W)		HTR2 (GR/B)	OX1B (GR)	
TPC (W/R)			ACMG (L/O)		P (R/W)	TACH (B/Y)	STA (B)	OXL2 (W)	OCV- (W/G)
N (G/R)		PTNK (L/Y)		CCS (R/Y)	-	MOL (R/W)	EC (W/B)	OXR2 (R)	OCR- (Y/R)

E 6 , E (22 P)

BATT (B/Y)	-	MOPS (L/B)	DI (B/R)	FPC (B/Y)		W (GR/R)	+BM (V/Y)
+B (B/R)	IGSW (B/O)	MREL (B/Y)	SIL (W)	-	TRC+ (P)	ENG+ (LG)	-
+B1 (B/R)	-		-	-	TRC- (V)	ENG- (L)	NEO (G/R)

E 7 , F (26 P)

D (Y/B)	SFTU (L/Y)	IMLD (V)	EOM (W/B)							MPX1 (W)		-
STI- (B/L)	SFTD (R/G)	L (R/Y)	TXCT (L/R)	CODE (G/B)	RXCK (B/W)	KSW (Y)	LCK1 (GR)	TAM (LG/R)	PRE (L/B)	MPX2 (L)	4 (Y/G)	RL (P/L)

1UZ – FE , VVTi - Crown Majesta (UZS 151)

(896610-50450) 5 A/T 12 เส้น– IMO รวมกล่อง

E 14 , D (31 P)

#30 (L)	#40 (R)		#50 (G)	#60 (R/L)	#70 (W)	#80 (B/W)	M- (L)	M+ (Y)	ME01 (W/B)		
G2 (Y)	IGT1 (LG)	IGT2 (B)	IGT3 (L)	IGT4 (R)	IGT5 (G)	IGT6 (R/L)	IGT7	IGT8	CL-	CL+	E01 (W/B)
NE- (W)	NE+ (B)		IGF1	IGF2		KNK2	KNK1		ACIS (W/L)	GE01	E02 (W/B)

E 13 , C (24 P)

OCV+	VC (B/R)		HT2A	HT1A	#10 (Y)	#20 (B)	PRG (L/B)	
OCV-	VG	OX2A	OX1A	VVR+	VVL+	THW (R/L)	VPA	VPA2
E1 (W/B)	E2 (BR)	EVG (G/W)	VVR-	VVL-		THA (Y/B)	VTA	VTA2

E 12 , B (17 P)

S1	S2	S3	NCO+	SP2+ (G)	S4
SLU+	SLN+	SLT+	NCO-	SP2- (R)	
SLU-	SLN-	SLT-		OC2-	OIL

E 11 , A (28 P)

P	R	N	D	3	2				
						WFSE	RL		
					MOPS		LCK1		

E 15 , E (22 P)

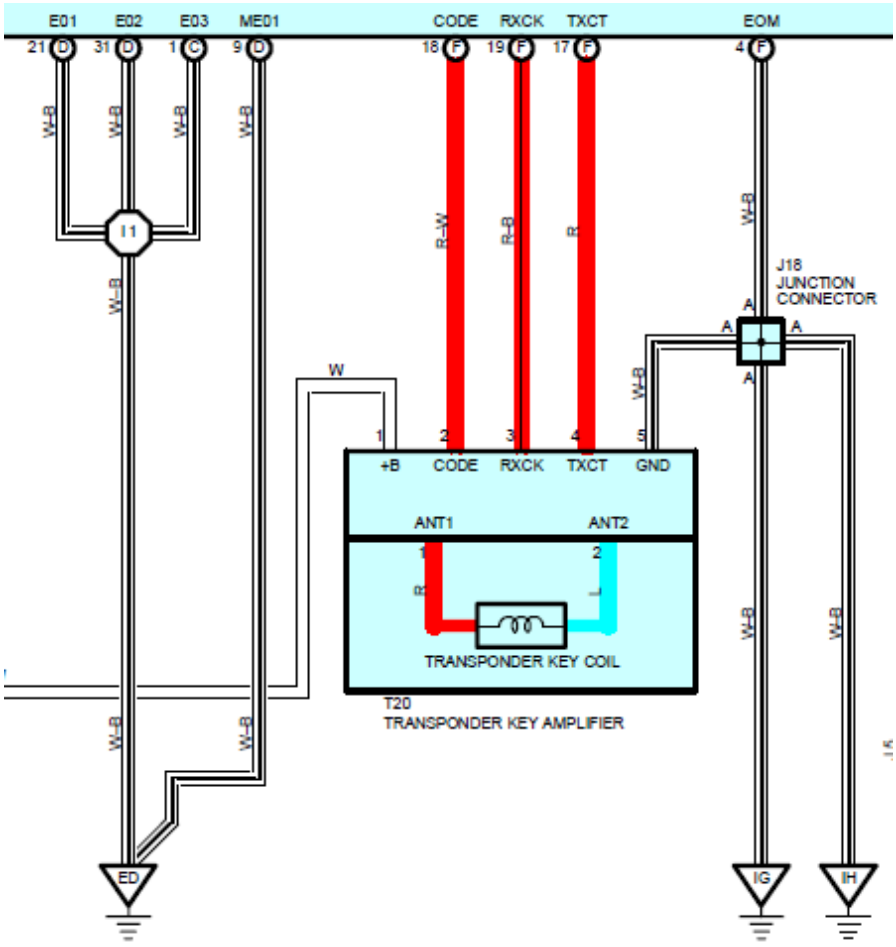
BATT (B/Y)	ACMG	TC	SIL	IMLD		W (Y/R)	+BM (L/Y)
+B2 (W)	IGSW (B/O)	MREL (LG)	KSW	TACH	TRC+	ENG+	NEO
+B1 (W)	FC		MPX2	EOM	TRC-	ENG-	EC

E 16 , F (26 P)

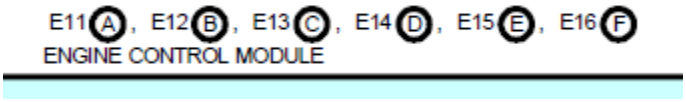
4	L		LGND	LCS	ELC	RFC	TAM	OX2B	HT2B	OX1B	HT1B	RDEF
FPR	STA	STP	ST1-	CCS	WSH		MPX1	TXCT	CODE	RXCK	CRGL	CRGR

MPX1 - Body ECU
MPX2 - A/C System

Immobilizer



1UZ – FE , VVTi
Crown Majesta UZS 171 , 5 A/T 12 เส้น –IMOรวม



E 14 , D (31 P)

#30 (L)	#40 (R)		#50 (G)	#60 (R/L)	#70 (W)	#80 (B/W)	M- (L)	M+ (Y)	ME01	
G2 (Y)	IGT1 (LG)	IGT2 (B)	IGT3 (L)	IGT4 (R)	IGT5 (G)	IGT6 (R/L)	KNKR (GR)	KNKL (B)	OCV- (L/B)	OCV+ (L/W)	E01 (W/B)
NE- (W)	NE+ (B)		IGT7 (Y/G)	IGT8 (B/W)		IGF1 (Y/B)	IGF2 (Y)		ACIS (W/L)	GE01	E02 (W/B)

E 13 , C (24 P)

E03 (W/B)	VC (B/R)		HTR1 (Y)	HTL1 (R)	#10 (Y)	#20 (B)	PRG (L/B)	
CL- (G/B)	VPA2 (R/B)	VG (L/Y)	OXR1 (W)	OXL1 (B)	VTA (P/L)	THW (R/L)	VVR+ (Y)	VVL+ (R)
E1 (W/B)	E2 (BR)	EVG (G/W)	VTA2 (B/L)	VPA (P)		THA (Y/B)	VVR- (L)	VVL- (G)

B 13 , C (17 P)

S1 (L/W)	S2 (G/Y)	S3 (R/Y)	NCO+	SP2+ (G)	S4 (Y/B)
SLU+	SLN+ (P)	SLT+	NCO-	SP2- (R)	CL+ (L/R)
SLU-	SLN- (L/B)	SLT-		-	OIL

E 11 , A (28 P)

	R (R/B)	N (G/R)	D (LG)	3 (G/Y)	2 (G/B)		HTR2 (V/W)	HTL2 (R)	
TBP (W/G)	PWR	4	ACMG (W)		P	TACH (B/Y)	STA (B)	OXL2 (G)	OCR+ (L/W)
N		PTNK (B/L)				MOL (Y/R)		OXR2 (Y)	OCR- (L)

E 15 , E (22 P)

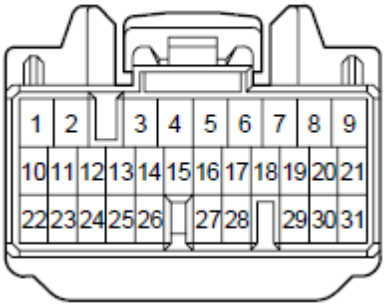
BATT (B/Y)		SNW1	FPR (G/R)	FC (G/B)		W (Y/R)	+BM (L/Y)
+B (W)	IGSW (B/O)	MREL (LG)	SIL (L)				
+B1 (W)							

E 16 , F (26 P)

			EOM (W/B)							MPX1 (P/L)	CCV (LG)	
			TXCT (R)	CODE (R/W)	RXCK (R/B)	KSW (Y)				MPX2 (P/L)		RL (P)

2UZ-FE(4.7) , Land Cruiser UZJ100 ปี 1999
A/T 8 สาย 4 Speed

E5



E6



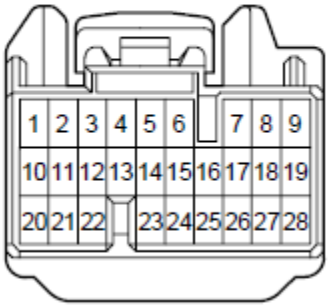
E5(A) - 31 P

1 - #30 (L)
2 - #40 (R)
3 - #50 (G)
4 - #60 (R/L)
5 - #70 (W)
6 - #80 (B/W)
7 - M- (W)
8 - M+ (R)
9 - ME01 (W/B)
10 - G2 (R)
11 - IGT1 (B)
12 - IGT2 (R)
13 - IGT3 (L)
14 - IGT4 (G)
15 - IGT5 (Y)
16 - IGT6 (B/Y)
17 - KNKR (W)
18 - KNKL (B)
19
20
21 - E01 (W/B)
22 - NE- (G)
23 - NE+ (L)
24 - CL- (L)
25 - IGT7 (B/L)
26 - IGT8 (L/B)
27 - IGF1 (B/W)
28 - IGF2 (B/R)
29 - CL+ (G)
30 - GE01 (BR) , shield
31 - E02 (W/B)

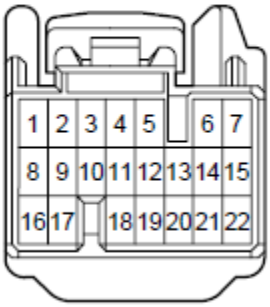
E6 (B) - 24 P

1 - E03 (W/B)
2 - VC (L/R)
3 - HTR (Y)
4 - HTL (R)
5 - #10 (Y)
6 - #20 (B)
7 - PRG (L/B)
8 - ELS4 (R)
9 - VPA2 (R/B)
10 - VG (L/Y)
11 - OXR1 (W)
12 - OXL1 (B)
13 - VTA1 (R/Y)
14 - THW (G/B)
15
16
17 - E1 (BR)
18 - E2 (BR/W)
19 - EVG (G/W)
20 - VTA2 (Y/B)
21 - VPA1 (R)
22 - THA (Y/B)
23
24

E8



E9



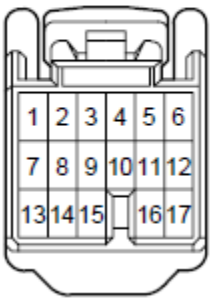
E8 (D) - 28 P

1 - OD2 (B)
2 - R (R/B)
3 - 2 (G)
4 - L (G/B)
5 - TC (P/B)
6 - STP (G/W)
7 - HTR2 (R/B)
8 - HTL2 (L)
9
10 - TPC (L)
11 - PWR (L/W)
12 - ELS1 (G/W)
13 - ACT (L/B)
14 - THWO (Y/B)
15 - SPD (V)
16 - TACH (B)
17 - STA (B/R)
18 - OXL2 (B)
19 - D (G/Y)
20 - NSW (B/W)
21 - IMLD (G/R)
22 - ADR (BR) , E1
23 - CCS (L)
24 - CMS (Y/R)
25 - A/C (W/G)
26 - OILW (O)
27 - OXR2 (W)
28 - FPMS (L/W)

E9 (E) - 22 P

1 - BATT (B/R)
2
3 - SNW1 (L/R)
4 - DI (G/R)
5 - FPC (G/W)
6 - W (W)
7 - +BM (Y/B)
8 - +B (B/Y)
9 - IGSW (B/R)
10 - MREL (B/W)
11 - SIL (V/W)
12 - CODE (L/B) , IMO
13 - RXCK (V/G) , IMO
14 - TXCT (R/Y) , IMO
15
16 - +B (B/Y)
17 - ELS3 (G/Y)
18 - ELS2 (Y/R)
19 - ST1- (R/G)
20 - KSW (R/B)
21
22

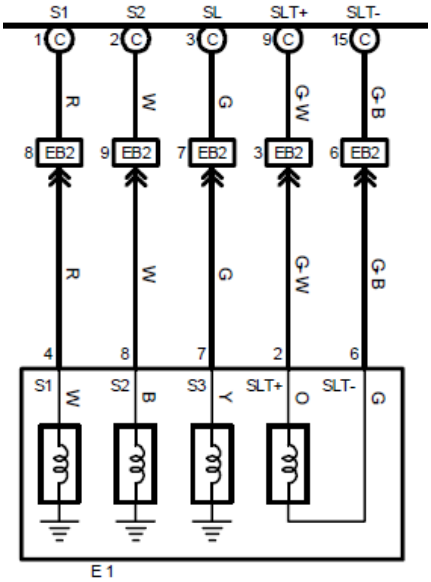
E7



E7 (C) - 17 P

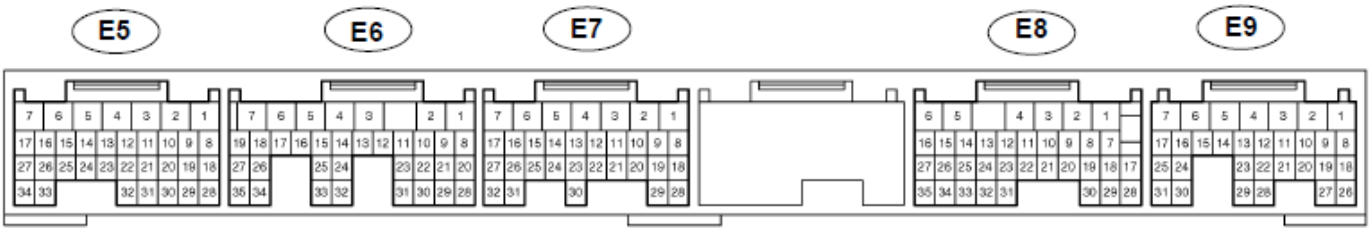
1 - S1 (R)
2 - S2 (W)
3 - SL (G)
4 - NCO+ (L/R)
5 - SP2+ (R)
6 - ST (G/R)
7
8
9 - SLT+ (G/W)
10 - NCO- (L/W)
11 - SP2- (G)
12
13
14
15 - SLT- (G/B)
16 - OIL2 (L)
17

A/T Solenoid

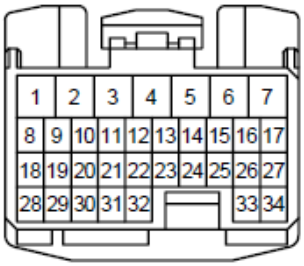


E 1
ELECTRONICALLY CONTROLLED
TRANSMISSION SOLENOID

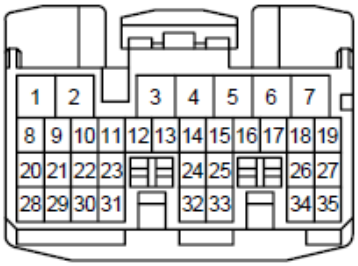
2UZ-FE (4.7) , Land Cruiser UZJ100 ปี 2004
A/T 15 สาย 6 Speed



E 5



E 6



หน้าปลั๊ก

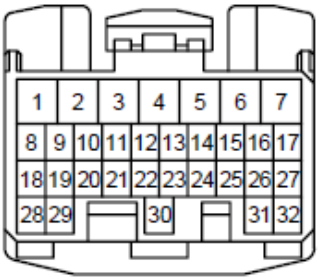
E5 (A) - 34 P

1 - #10 (Y)
2 - #20 (B)
3 - #30 (L)
4 - #40 (R)
5 - #50 (G)
6 - E02 (W/B)
7 - E01 (W/B)
8 - IGT2 (R)
9 - IGT1 (B)
10 - IGT8 (L/B)
11 - IGT4 (G)
12 - IGT5 (Y)
13 - IGT7 (B/L)
14
15 - ACCR (R/G)
16 - NSW (B/W)
17 - STA (B/R)
18 - VC (L/R)
19 - THW (G/B)
20 - THA (Y/B)
21 - VTA1 (R/Y)
22
23 - IGF2 (B/R)
24 - IGF1 (B/W)
25 - IGT3 (L)
26 - IGT6 (B/Y)
27 - CCV (L/R)
28 - E2 (BR/W)
29 - EVG (G/W)
30 - VG (L/Y)
31 - VTA2 (Y/B)
32
33 - FPR (G/W)
34 - PRG (L/B)

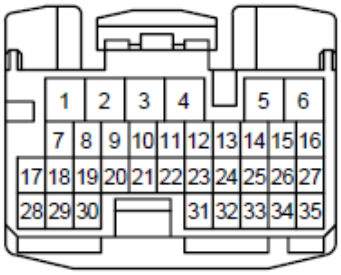
E6(B) - 35 P

1 - KNK1 (B)
2 - KNK2 (W)
3 - #60 (R/L)
4 - HT1A (R)
5 - HT1B (L)
6
7
8
9 - STAR (B/W) พ่วง NSW
10 - S2 (W) , A/T
11 - S1 (R) , A/T
12 - SLT- (G/B) , A/T
13 - SLT+ (G/W) , A/T
14
15 - SR (G) , A/T
16 - SL2- (P/L) , A/T
17 - SL2+ (P/B) , A/T
18 - SL1- (R/W) , A/T
19 - SL1+ (R/L) , A/T
20
21 - OX2B (W)
22 - OX2A (W)
23 - OX1A (B)
24 - THO2 (L) , A/T
25 - HT2B (R/B)
26 - SP2+ (R)
27 - NT+ (L)
28
29 - OX1B (B)
30
31
32 - THO1 (G/Y) , A/T
33 - HT2A (Y)
34 - SP2- (G)
35 - NT- (W)

E 7



E 8



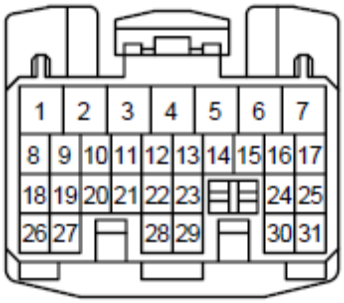
E7 (C) - 32 P

1 - E1 (BR)
2 - M- (W)
3 - M+ (R)
4 - ME01 (W/B)
5 - #80 (B/W)
6 - #70 (W)
7 - E03 (W/B)
8
9
10
11 - TFN (Y/G)
12 - STSW (B/W)
13
14
15 - SLU- (B)
16 - SLU+ (B), A/T
17 - GE01
18
19
20
21 - RL (B/O)
22
23 - LCK1 (L)
24 - NE- (G)
25 - NE+ (L)
26
27 - G2+ (R)
28
29
30
31
32 - G2- (G)

E8 (D) - 35 P

1 - E1 (W/B)
2 - ACMG (L)
3
4 - L4 (B/L)
5 - SNW1 (L/R)
6 - +BM (Y/B)
7
8 - L (R/L)
9 - 2 (G/B)
10 - D (G/Y)
11 - R (R/B)
12
13
14 - THWO (Y/G), A/C
15
16
17 - SPD (V)
18 - MPX1 (P/B)
19 - STP (G/W)
20 - 3 (G)
21
22
23 - 4 (G/R)
24
25
26 - IMO (Y)
27 - IMI (W)
28 - PWR (L/W)
29 - MPX2 (B)
30
31 - A/CS (L/B), A/C
32 - THE (P/B), A/C
33 - ACLD (G/B), A/C
34
35

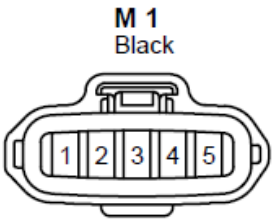
E 9



E9 (E) - 31 P

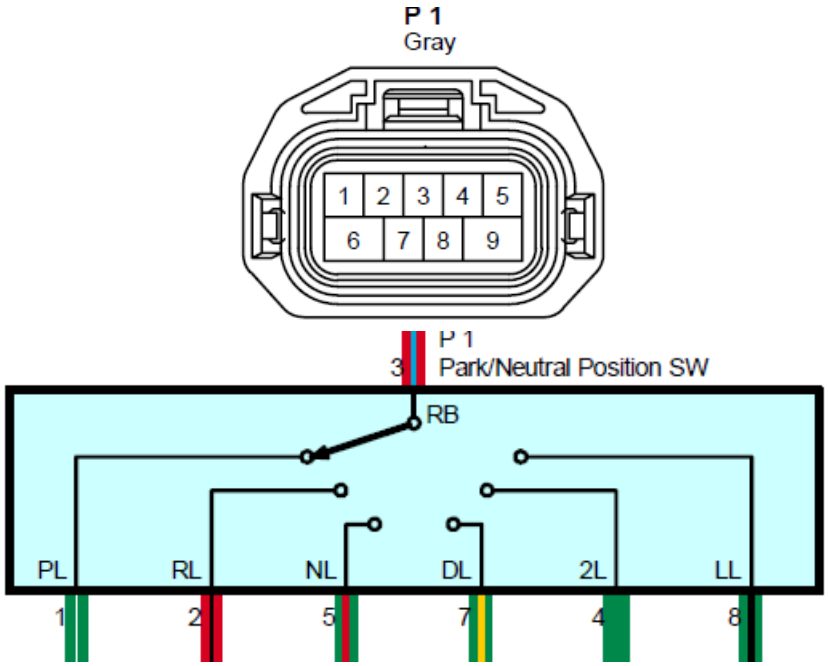
1 - +B (B/Y)
2 - +B (B/Y)
3 - BATT (B/R)
4 - TBP (L)
5 - TACH (B)
6 - P (G/W)
7 - N (G/R)
8 - MREL (B/W)
9 - IGSW (B/R)
10 - FC (B/W)
11 - W (W)
12 - ELS (G/W)
13 - ELS2 (Y/R)
14 - F/PS (B), SRS
15 - EOM (W/B)
16
17 - NEO (W)
18 - SIL (V/W)
19 - WFSE (W/R)
20 - TC (P/B)
21 - PTNK (L/B)
22 - VPA1 (R)
23 - VPA2 (R/B)
24 - ENG+ (R)
25 - TRC+ (Y)
26 - VCPA (L/R)
27 - VCP2 (W)
28 - EPA1 (BR/W)
29 - EPA2 (W/R)
30 - ENG- (G)
31 - TRC- (L)

Air Flow Sensor 12 V.

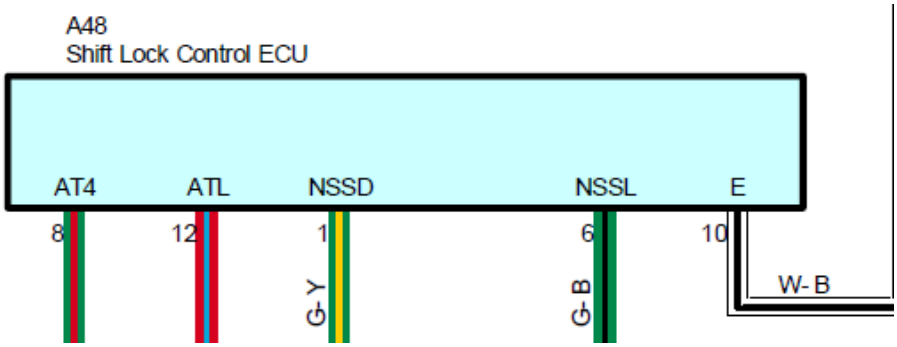


E2	THA	+B	E2G	VG

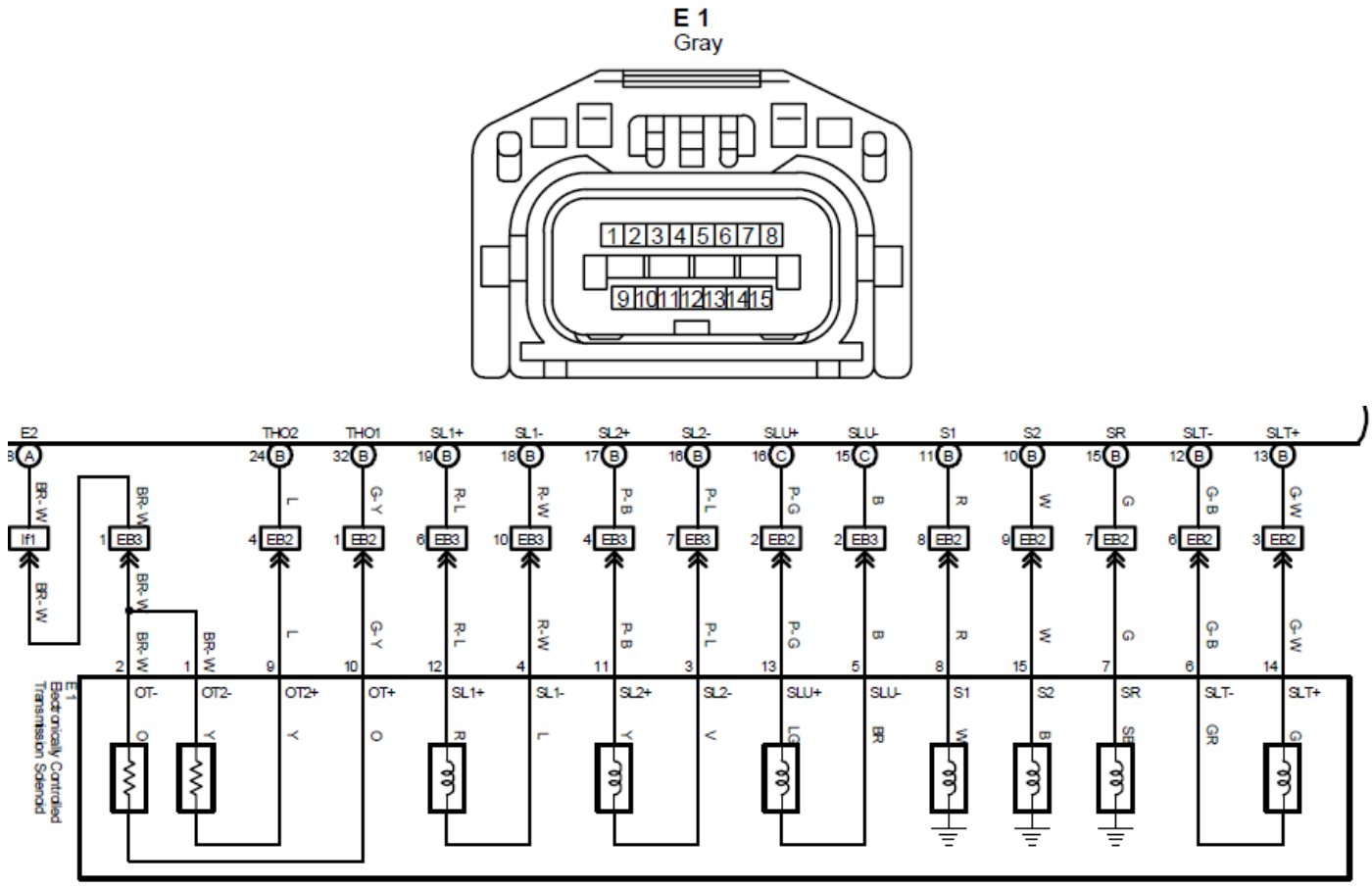
A/T Position Sw.



Shift Lock ECU



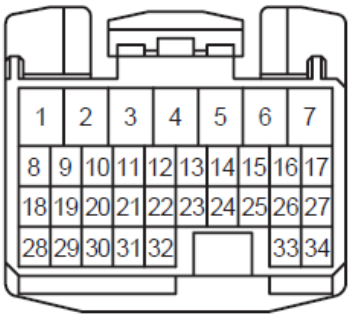
A/T Solenoid 15 เส้น



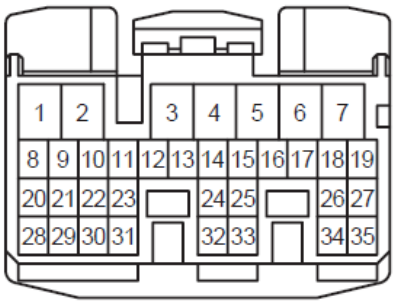
2UZ-FE(4.7) , 4 Runner ปี 2004
A/T 15 สาย 6 Speed

E 4(A), E 5(B), E 6(C), E 7(D), E 8(E)
Engine Control Module

E 4



E 5



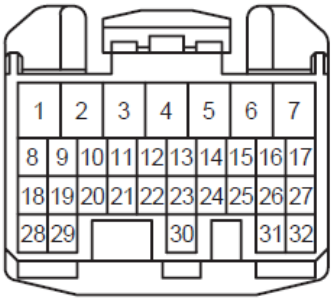
E4 - 34 P

1
2 - EC (W/B)
3
4 - BATT (B/R)
5 - +B (B/W)
6 - +B (B/W)
7
8 - ST1-
9
10 - Cooling Fan ECU , RFC (G/R)
11
12 - STA (L/O)
13 - MREL (P/B)
14 - FC (G/B)
15 - FPR (Y)
16
17 - IGSW (B/O)
18 - A/C System , TAM (
19
20
21
22 - SPD (V/W)
23
24 - CAN L
25 - CAN H
26
27
28
29
30
31

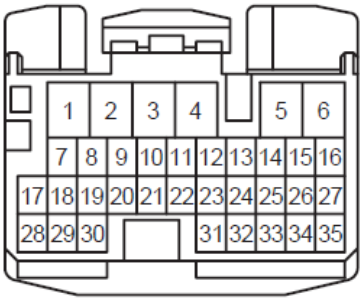
E5 - 35 P

1 - HT2B (GR)
2 - HT1B (B/W)
3 - TC (P/B)
4 - STP (G/O)
5 - Canister Pump Module , MPMP (LG/R)
6 - IMI (GR/G)
7 - IMO (GR/R)
8 - W (Y/R)
9 - S mode , + (G/B)
10
11
12 - Canister Pump Module , VPMP (R)
13
14
15
16 - TACH (B/Y)
17 - OX2B (W)
18 - O2B- (BR)
19 - SFTD , - (Y/B)
20
21
22
23
24
25 - Canister Pump Module , PPMP (B/L)
26 - Accelerator Position Sen. , EPA2 (BR)
27 - Accelerator Position Sen. , VCP2 (O)
28 - OX1B (B)
29 - O1B- (BR)
30 - SFTU , - (L/Y)
31
32 - Accelerator Position Sen. , VPA2 (R/B)
33 - Accelerator Position Sen. , VPA (R/Y)
34 - Accelerator Position Sen. , EPA (BR/Y)
35 - Accelerator Position Sen. , VCPA (L/R)

E 6



E 7



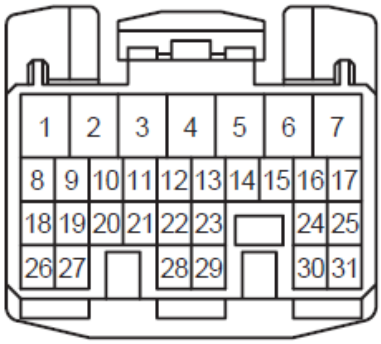
E6 - 32 P

1
2 - EC (W/B)
3
4 - BATT (B/R)
5 - +B (B/W)
6 - +B (B/W)
7
8 - ST1-
9
10 - Cooling Fan ECU , RFC (G/R)
11
12 - STA (L/O)
13 - MREL (P/B)
14 - FC (G/B)
15 - FPR (Y)
16
17 - IGSW (B/O)
18 - A/C System , TAM (
19
20
21
22 - SPD (V/W)
23
24 - CAN L
25 - CAN H
26
27
28
29
30
31

E7 - 35 P

1 - HT2B (GR)
2 - HT1B (B/W)
3 - TC (P/B)
4 - STP (G/O)
5 - Canister Pump Module , MPMP (LG/R)
6 - IMI (GR/G)
7 - IMO (GR/R)
8 - W (Y/R)
9 - S mode , + (G/B)
10
11
12 - Canister Pump Module , VPMP (R)
13
14
15
16 - TACH (B/Y)
17 - OX2B (W)
18 - O2B- (BR)
19 - SFTD , - (Y/B)
20
21
22
23
24
25 - Canister Pump Module , PPMP (B/L)
26 - Accelerator Position Sen. , EPA2 (BR)
27 - Accelerator Position Sen. , VCP2 (O)
28 - OX1B (B)
29 - O1B- (BR)
30 - SFTU , - (L/Y)
31
32 - Accelerator Position Sen. , VPA2 (R/B)
33 - Accelerator Position Sen. , VPA (R/Y)
34 - Accelerator Position Sen. , EPA (BR/Y)
35 - Accelerator Position Sen. , VCPA (L/R)

E 8

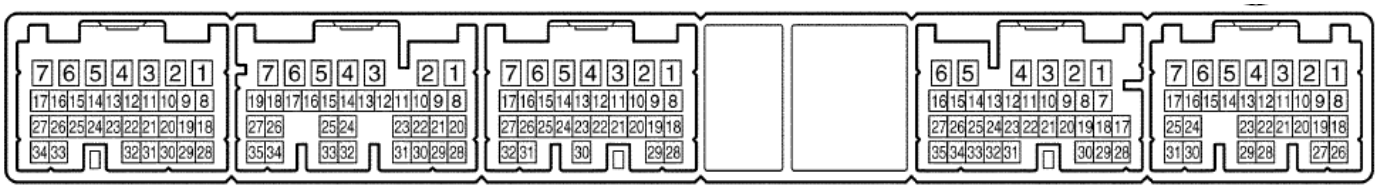


E8 - 31 P

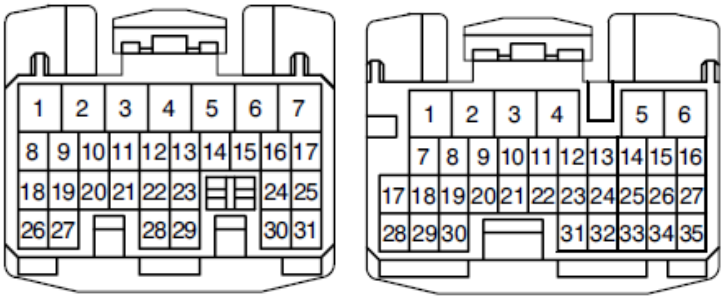
1
2 - EC (W/B)
3
4 - BATT (B/R)
5 - +B (B/W)
6 - +B (B/W)
7
8 - ST1-
9
10 - Cooling Fan ECU , RFC (G/R)
11
12 - STA (L/O)
13 - MREL (P/B)
14 - FC (G/B)
15 - FPR (Y)
16
17 - IGSW (B/O)
18 - A/C System , TAM (
19
20
21
22 - SPD (V/W)
23
24 - CAN L
25 - CAN H
26
27
28
29
30
31

3UZ-FE(4.3)VVTi , Lexus LS430 (UCF30) ปี2001(89661-50590)

5 A/T 12 เส้น(A650E) , IMO ECU แยก , คันเกียร์สไลด์ 2 ชั้น , เฟืองท้าย 3.626



E4 E3



หน้าปลั๊ก

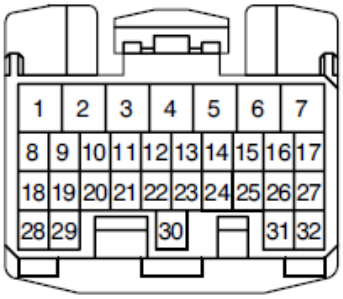
E4 (B) - 31 P

1
2 - EC (W/B)
3
4 - BATT (B/R)
5 - +B (B/W)
6 - +B (B/W)
7 - +BM (Y/B)
8 -
9 - KD (O)
10 - RFC (G/R) , Cooling Fan ECU
11
12 - STA (L/O)
13 - MREL (P/B)
14 - FC (G/B)
15 - FPR (Y)
16 - ACMG (W)
17 - IGSW (B/O)
18 - TAM (L/W) , A/C System
19 - ETAM (BR) , A/C System
20
21
22 - LCS (LG/B) , distance control ECU
23 - ELC (GR/G) , distance control ECU
24 -
25 -
26 - SIL (W/G)
27
28
29
30
31

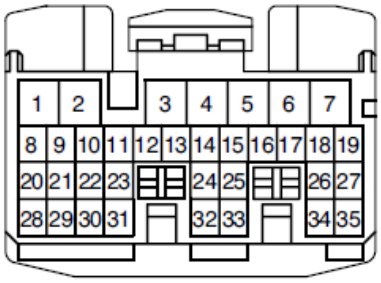
E3 (A) - 35 P

1 - L1 (GR/B) , air suspension ECU
2 - W (Y/R)
3 - TC (P/B)
4 - STP (G/O)
5 -
6 -
7 - HTL2 (B/W)
8 - HTR2 (GR)
9 - NEO (W/G)
10 - TBP (B/L)
11
12 - 2 (G/B)
13 - D (G/Y)
14 - 4 (L/Y)
15 - L (Y/B)
16 - TACH (B/Y)
17 - OXR2 (W)
18 - TRC+ (R)
19 - ENG+ (P)
20 - MPX2 (GR/B) , A/C control
21 - MPX1 (GR/B) , Passenger Side J/B ECU
22 - WFSE (LG/B)
23 - IMO (GR/R)
24 - IMI (GR/G)
25 - PTNK (LG/R)
26 - EPTK (BR/W)
27 - VPTK (O)
28 - OXL2 (B)
29 - TRC- (G)
30 - ENG- (V)
31
32 - Accelerator Position Sen. , VPA2 (R/B)
33 - Accelerator Position Sen. , VPA (R/Y)
34 - Accelerator Position Sen. , EPA (BR/Y)
35 - Accelerator Position Sen. , VCPA (L/R)

E5



E7



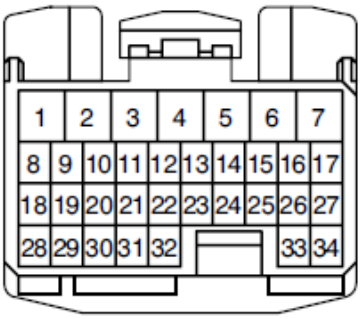
E5 (C) - 32 P

1 - E02 (W/B)
2 - E01 (W/B)
3 - ME01 (W/B)
4 - IGF2L (G/B)
5 - IGF2R (L/B)
6 - IGF1L (LG)
7 - IGF1R (G)
8 - OCR- (L/B)
9 - OCR+ (L/W)
10 - IGT8 (B/W)
11 - IGT6 (R/L)
12 - IGT4 (LG)
13 - IGT2 (L/R)
14 - #80 (Y/B)
15 - #60 (BR)
16 - #40 (G)
17 - #20 (W)
18 - VVR- (L)
19 - VVR+ (Y)
20 - ME01 , shield
21 - ACIS (L/W)
22 - CCV (R)
23
24 - THW (R/L)
25 - ETHW (BR)
26 - EVG (B/W)
27 - VG (B/R)
28 - OXR1 (W)
29 - ME01 , shield
30 - HTR (G/Y)
31 - ETHA (B/Y)
32 - THA (B/L)

E7 (E) - 35 P

1 - KNKL (B)
2 - KNKL (W)
3 - N (G/R)
4 - 3 (L/Y)
5 - R (G)
6 - P (W)
7 - E1 (BR)
8 -
9 - HTL (L/Y)
10 - SLU- (L/R)
11 - SLU+ (L/Y)
12 - SLN- (L)
13 - SLN+ (Y)
14 - MOL (LG) , Oil Level Sen.
15 - RL (P/L)
16 - S4 (G/R)
17 - S3 (G)
18 - S2 (W)
19 - S1 (R)
20 - NCO- (L)
21 - NCO+ (Y)
22 - SP2- (R)
23 - SP2+ (G)
24 -
25 -
26 - EOIL (BR)
27 - OIL (G/Y)
28 - OXL1 (B)
29 - ME01 , shield
30 -
31 -
32 - ME01 , shield
33
34 - SLT- (G/B)
35 - SLT+ (B)

E6



E6 (D) - 34 P

1 - ME01 , shield
2 - M- (W)
3 - M+ (B)
4 - E03 (W/B)
5 - OCV- (G/W)
6 - OCV+ (L/Y)
7 - Oil Pressure Sw. (Y/B)
8
9
10
11 - PRG (G/B)
12 - #70 (BR)
13 - #50 (G)
14 - #30 (G/Y)
15 - #10 (L)
16 - IGT3 (L/Y)
17 - IGT1 (G/W)
18 - VVL+ (R)
19 - VVL-(G)
20 - ME01 , shield
21 - ME01 , shield
22 - Throttle Control , ETA (BR)
23 - Throttle Control , VC (L/R)
24 - Throttle Control , VTA2 (L/B)
25 - Throttle Control , VTA (Y)
26 - IGT7 (P/L)
27 - IGT5 (R)
28 - G2- (Y)
29 - G2 (L)
30 - ME01 , shield
31 - NE+ (B)
32 - NE- (W)
33 -
34 - LCK1 (L/W) , A/C System

Air Flow Sensor 12 V.

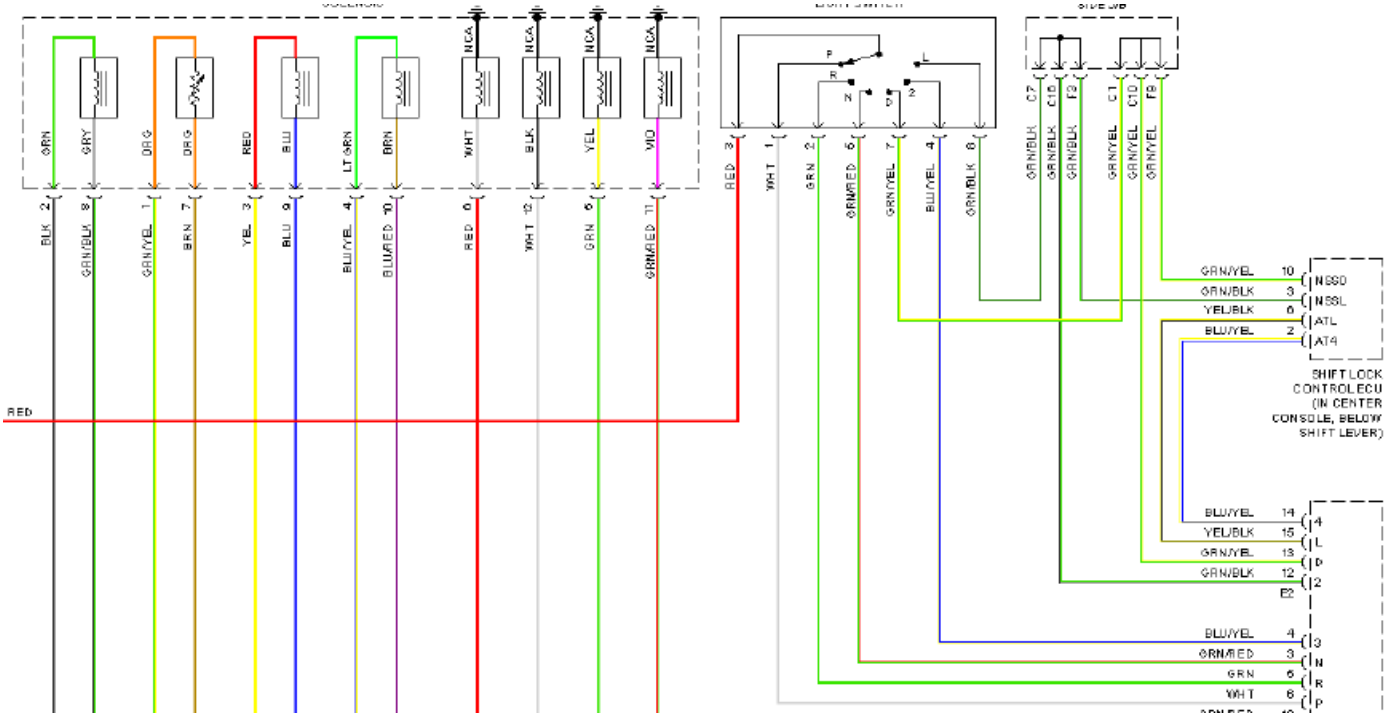


+B (B)	E2G (B/W)	VG (B/R)	THA (B/L)	E2 (B/Y)

A/T Solenoid 12 เส้น

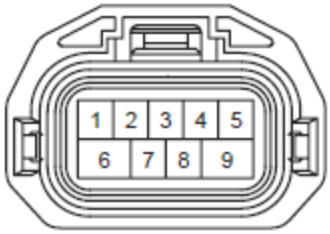


OIL (G/Y)	SLT+ (B)	SLN+ (Y)	SLU+ (L/Y)	S3 (G)	S1 (R)
E2 (BR)	SLT- (G/B)	SLN- (L)	SLU- (L/R)	S4 (G/R)	S2 (W)



A/T Position Sw.

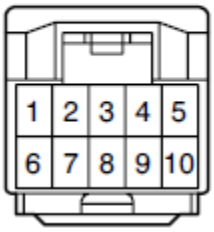
E25
(3UZ–FE, 3GR–FE) Gray



1 - P (W)
2 - R (G)
3 - IG (R)
4 - 2 (L/Y)
5 - N (G/R)
6 - STA (BR)
7 - D (G/Y)
8 - L (G/B)
9 - NSW (L/Y)

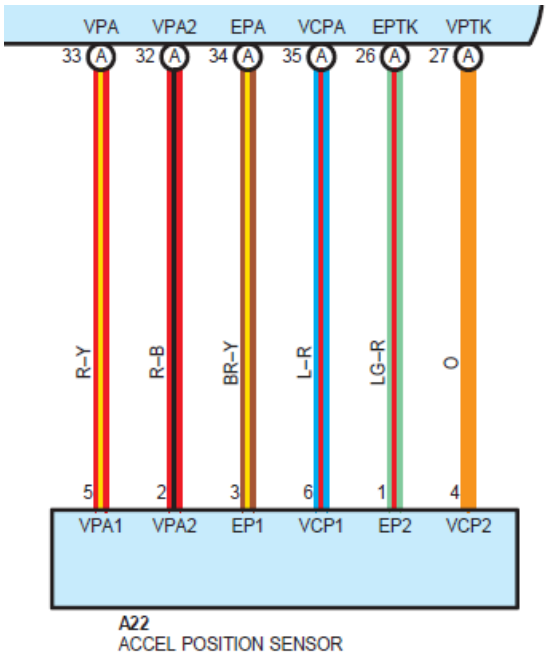
Shift Lock Control ECU

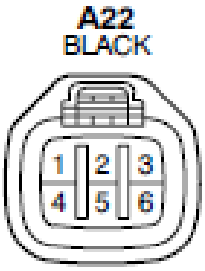
S8



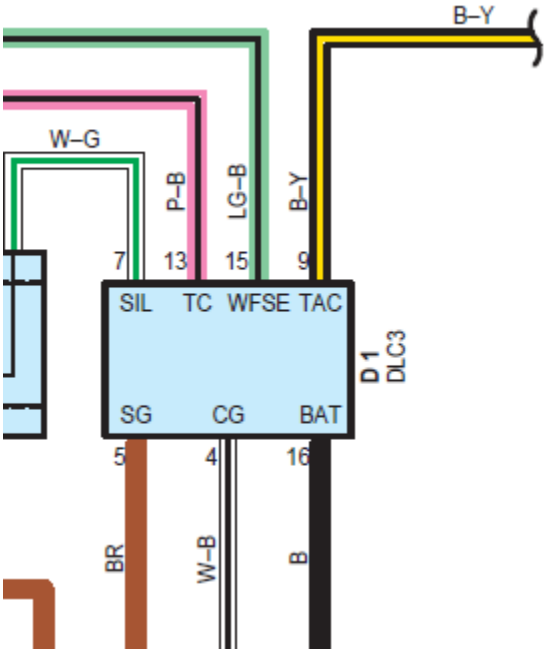
1 - Shift Lock Sol. (L/W)
2 - 4 (L/Y) , engine ECU
3 - 2 (G/B)
4 - ACC (GR)
5 - IG (R)
6 - L (Y/B) , engine ECU
7 - E1 (W/B)
8 - Steering Lock ECU (LG)
9 - STP (G/O)
10 - D (G/Y)

Acceleration Sensor



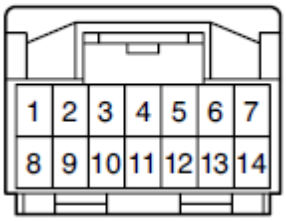


DLC3



Transponder Key Computer

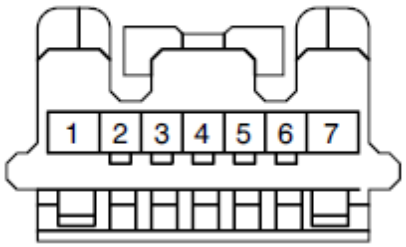
T9



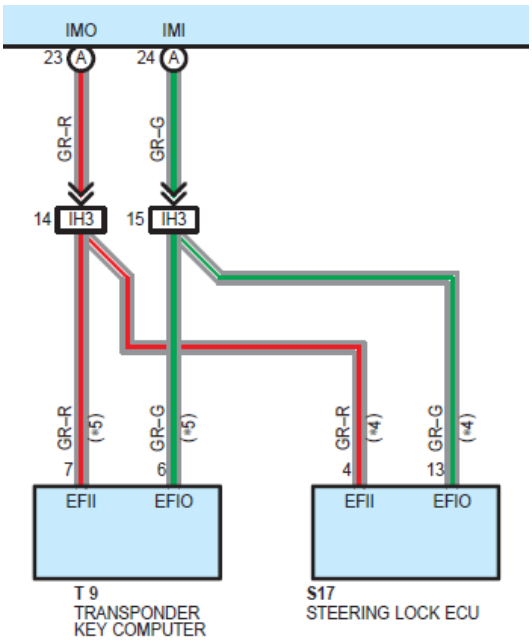
BATT	**IG**	**KSW**	**MPX1**	**MPX2**	**EFIO**	**EFII**
	VC12	**CODE**	**RXCK**	**TXCT**	**AGND**	**GND**

Transponder Key Amplifier

T8
BLACK



+B		**RXCK**	**CODE**	**TXCT**		**GND**

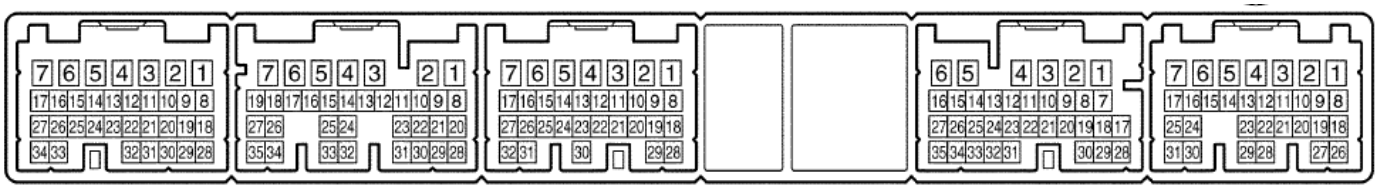


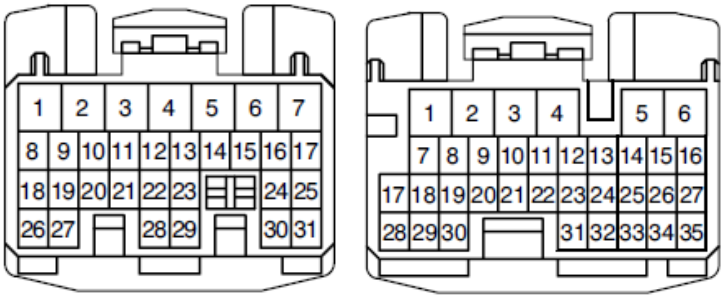
Cooling Fan ECU



+B (W/L) - C23 (1)
E1 (BR) - C22 (1)
RFC (G/R) - C24 (3)

3UZ-FE VVTi , Lexus LS430 (UCF30) ปี 2003
6 A/T 15 เส้น + - , IMO ECU แยก

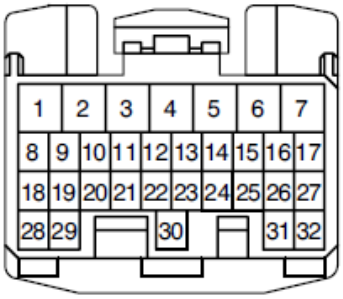




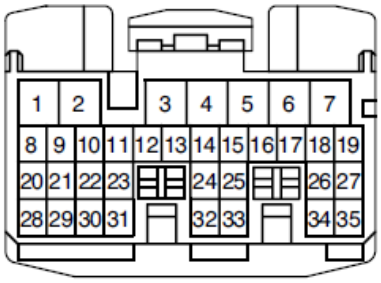
หน้าปลั๊ก

E4 (B) - 31 P	E3 (A) - 35 P
1	1 - HT2B (GR)
2 - EC (W/B)	2 - HT1B (B/W)
3	3 - TC (P/B)
4 - BATT (B/R)	4 - STP (G/O)
5 - +B1 (B/W)	5 -
6 - +B (B/W)	6 - IMI (GR/G)
7 - +BM (Y/B)	7 - IMO (GR/R)
8 -	8 - W (Y/R)
9 -	9 - S Sw. (G/B)
10 - RFC (L) , Cooling Fan ECU	10 - TBP (B/L)
11	11
12 - STA (L/O)	12 -
13 - MREL (P/B)	13 -
14 - FC (G/B)	14 -
15 - FPR (Y)	15 -
16 - ACMG (W)	16 - TACH (B/Y)
17 - IGSW (B/O)	17 - OX2B (W)
18 - TAM (L/W) , A/C System	18 - OX2B- (BR)
19 -	19 - SFTD (Y/B)
20	20 - MPX2 (GR/B) , A/C control
21	21 - MPX1 (GR/B) , Passenger Side J/B ECU
22 - SPD (V/W)	22 -
23 -	23 -
24 - CAN L (W)	24 -
25 - CAN H (B)	25 -
26 - KD (O)	26 - EPA2 (BR/W)
27	27 - VCP2 (O)
28	28 - OX1B (B)
29	29 - OX1B- (BR)
30	30 - SFTU (Y/L)
31	31 - CCS (W/L)
	32 - Accelerator Position Sen. , VPA2 (R/B)
	33 - Accelerator Position Sen. , VPA (R/Y)
	34 - Accelerator Position Sen. , EPA (BR/Y)
	35 - Accelerator Position Sen. , VCPA (L/R)

E5



E7



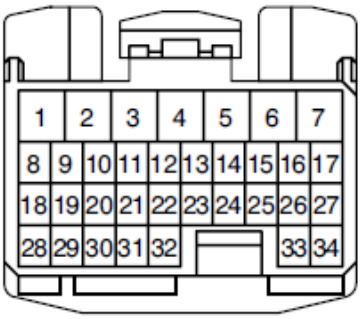
E5 (C) - 32 P

1 - E02 (W/B)
2 - E01 (W/B)
3 - ACIS (L/W)
4 -
5 - HT2A (G/Y)
6 - IGF2 (G/B)
7 - IGF1 (LG)
8 - OC2- (L/B)
9 - OC2+ (L/W)
10 - IGT8 (B/W)
11 - IGT6 (R/L)
12 - IGT4 (LG)
13 - IGT2 (L/R)
14 - #80 (Y/B)
15 - #60 (BR)
16 - #40 (G)
17 - #20 (W)
18 - VVR- (L)
19 - VVR+ (Y)
20 - THW (R/L)
21 - OX2A- (BR)
22 - CCV (R)
23
24 - THW (R/L)
25 - THA (B/L)
26 - EVG (B/W)
27 - VG (B/R)
28 - OX2A (W)
29 - ME01 , shield
30 - HTR (G/Y)
31 -
32 - RL (P/L) , Alternator

E7 (E) - 35 P

1 - KNKL (B)
2 - SR (G)
3 - N (G/R)
4 - STAR
5 - MOPS
6 - P (W)
7 - E1 (BR)
8 - R (G)
9 - D (G/Y)
10 - SL2- (Y)
11 - SL2+ (Y/G)
12 - SLU- (B/W)
13 - SLU+ (L/Y)
14 - Oil Level Sen. , MOL (LG)
15 -
16 - S4 (W)
17 - S3 (R)
18 - S2 (L/R)
19 - S1 (G/R)
20 - NT- (L)
21 - NT+ (Y)
22 - SP2- (R)
23 - SP2+ (G)
24 - SL1- (L)
25 - SL1+ (R/W)
26 - EOIL (BR)
27 - OIL (G/Y)
28 - KNK1 (W)
29 - KNK2 (R)
30 - EKNK1 (B)
31 - EKNK2 (G)
32 -
33
34 - SLT- (G/B)
35 - SLT+ (B)

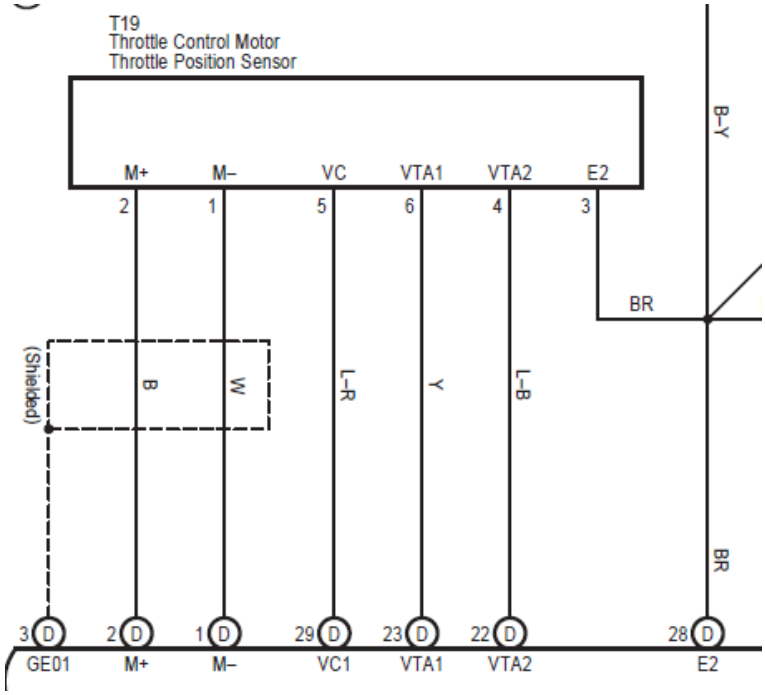
E6



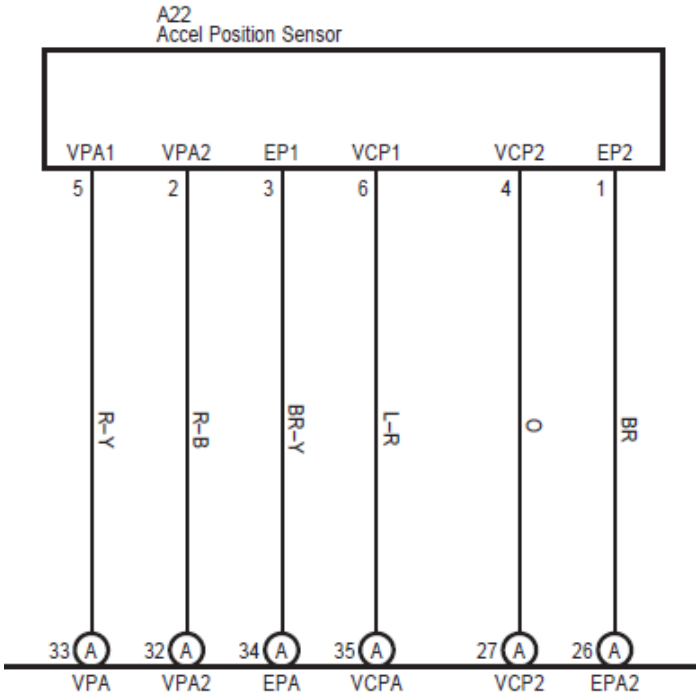
E6 (D) - 34 P

1 - M- (W)
2 - M+ (B)
3 - GE01
4 - ME01 (W/B)
5 - +BM (Y/B)
6 - E03 (W/B)
7 - Oil Pressure Sw. (Y/B)
8
9
10
11 - PRG (G/B)
12 - #70 (BR)
13 - #50 (G)
14 - #30 (G/Y)
15 - #10 (L)
16 - IGT3 (L/Y)
17 - IGT1 (G/W)
18 - VV1- (G)
19 - VV1+ (R)
20 - G2- (Y)
21 - G2 (L)
22 - E2 (BR)
23 - Throttle Control , VTA1 (Y)
24 - HT1A (L/Y)
25 - OX1A- (BR)
26 - IGT7 (P/L)
27 - IGT5 (R)
28 - E2 (BR)
29 - VC1 (L/R)
30 - OX1A (B)
31 - NE- (W)
32 - NE+ (B)
33 - OC1- (G/W)
34 - OC1+ (L/Y)

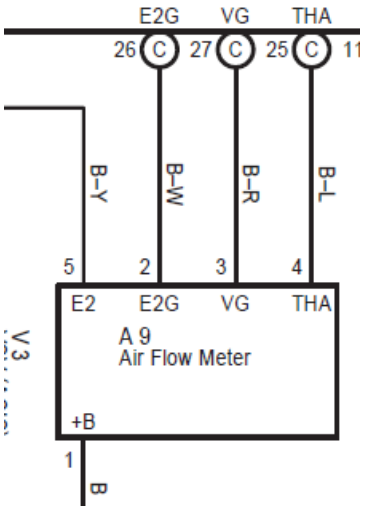
Throttle Control



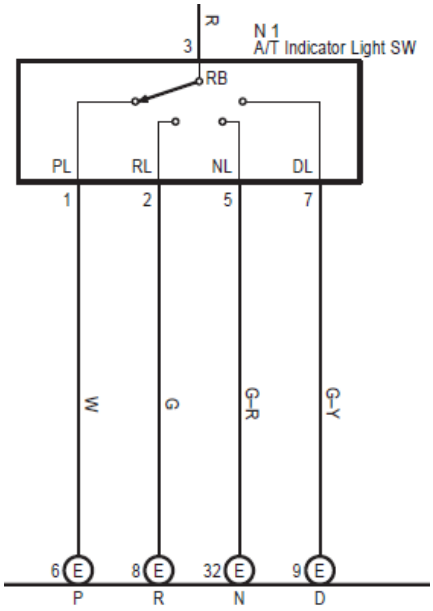
Accel Position Sensor



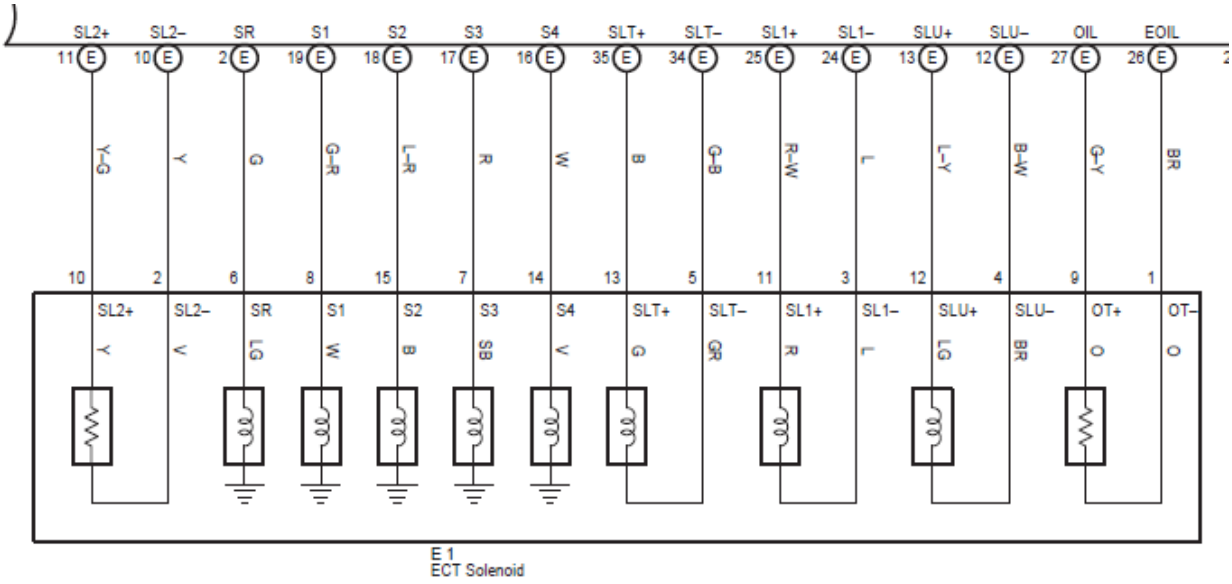
Air Flow Sensor



A/T Position Sw.

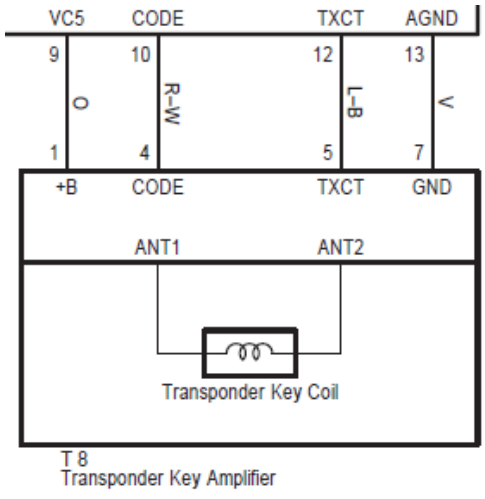


6 A/T Solenoid 15 เส้น

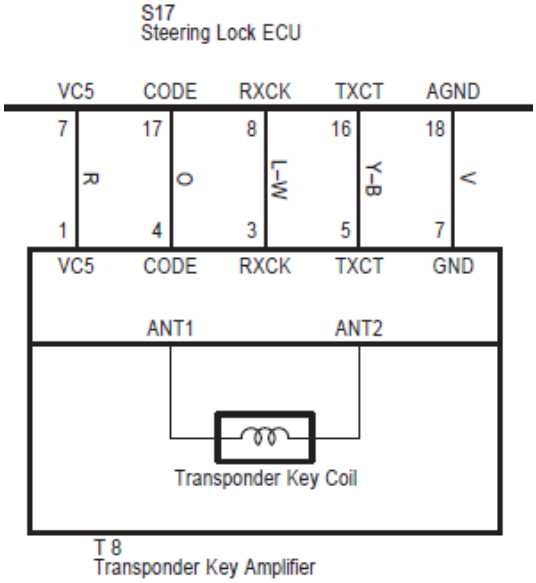


Immobilizer

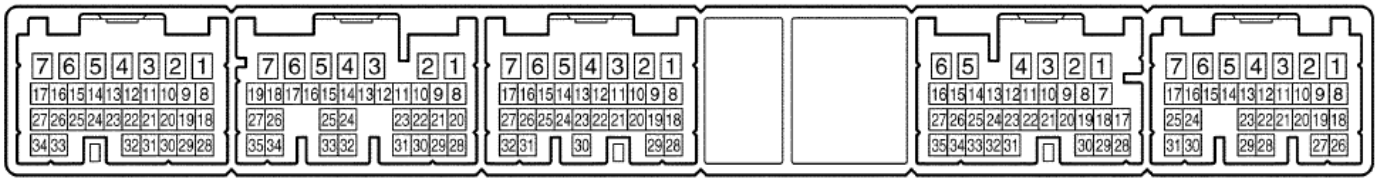
Transponder Key ECU



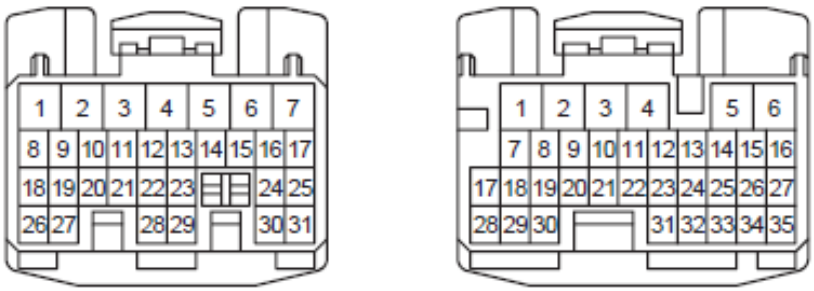
Steering Lock ECU



3UZ-FE , Celsior LS430 (UCF31) ปี 2006
6 A/T 15 สาย(A761E) +,-



A6 A7



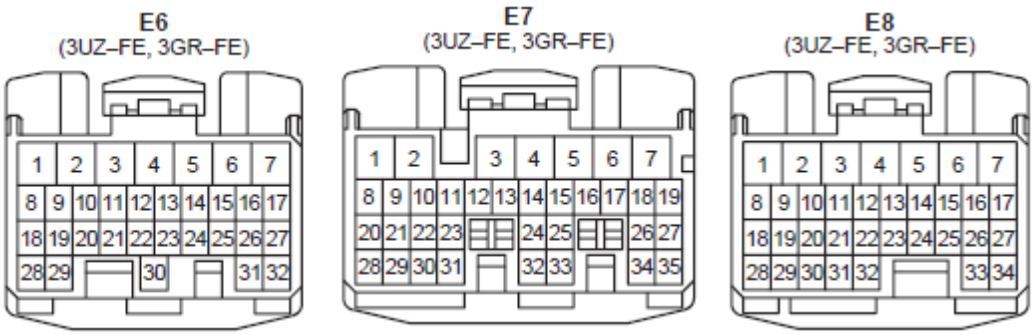
หน้าปลั๊ก

A6 (A) 31 P - B

1
2 - EC (W/B)
3
4 - BATT (B/R)
5 - +B (B/W)
6 - +B (B/W)
7
8 - ST1-
9
10 - RFC (G/R) , Cooling Fan ECU
11
12 - STA (L/O)
13 - MREL (P/B)
14 - FC (G/B)
15 - FPR (Y)
16
17 - IGSW (B/O)
18 - A/C System , TAM (
19
20
21
22 - SPD (V/W)
23
24 - CAN L
25 - CAN H
26
27
28
29
30
31

A7 (B) 35 P - A

1 - HT2B (GR)
2 - HT1B (B/W)
3 - TC (P/B)
4 - STP (G/O)
5 - Canister Pump Module , MPMP (LG/R)
6 - IMI (GR/G)
7 - IMO (GR/R)
8 - W (Y/R)
9 - S mode , + (G/B)
10
11
12 - Canister Pump Module , VPMP (R)
13
14
15
16 - TACH (B/Y)
17 - OX2B (W)
18 - O2B- (BR)
19 - SFTD , - (Y/B)
20
21
22
23
24
25 - Canister Pump Module , PPMP (B/L)
26 - Accelerator Position Sen. , EPA2 (BR)
27 - Accelerator Position Sen. , VCP2 (O)
28 - OX1B (B)
29 - O1B- (BR)
30 - SFTU , - (L/Y)
31
32 - Accelerator Position Sen. , VPA2 (R/B)
33 - Accelerator Position Sen. , VPA (R/Y)
34 - Accelerator Position Sen. , EPA (BR/Y)
35 - Accelerator Position Sen. , VCPA (L/R)



หน้าปลั๊ก

E6 (D) 32 P - C

1 - E02 (W/B)
2 - E01 (W/B)
3 - ACIS (L/W)
4
5 - HT2A (G/Y)
6 - IGF2 (G/B)
7 - IGF1 (LG)
8 - OC2- (L/B)
9 - OC2+ (L/W)
10 - IGT8 (B/W)
11 - IGT6 (R/L)
12 - IGT4 (LG)
13 - IGT2 (L/R)
14 - #80 (Y/B)
15 - #60 (BR)
16 - #40 (G)
17 - #20 (W)
18 - VV2- (L)
19 - VV2+ (Y)
20 - THW (R/L)
21 - O2A- (BR)
22
23
24
25 - THA (B/L)
26 - E2G (B/W)
27 - VG (B/R)
28 - OX2A (W)
29
30
31
32 - Alternator , RL (P/L)

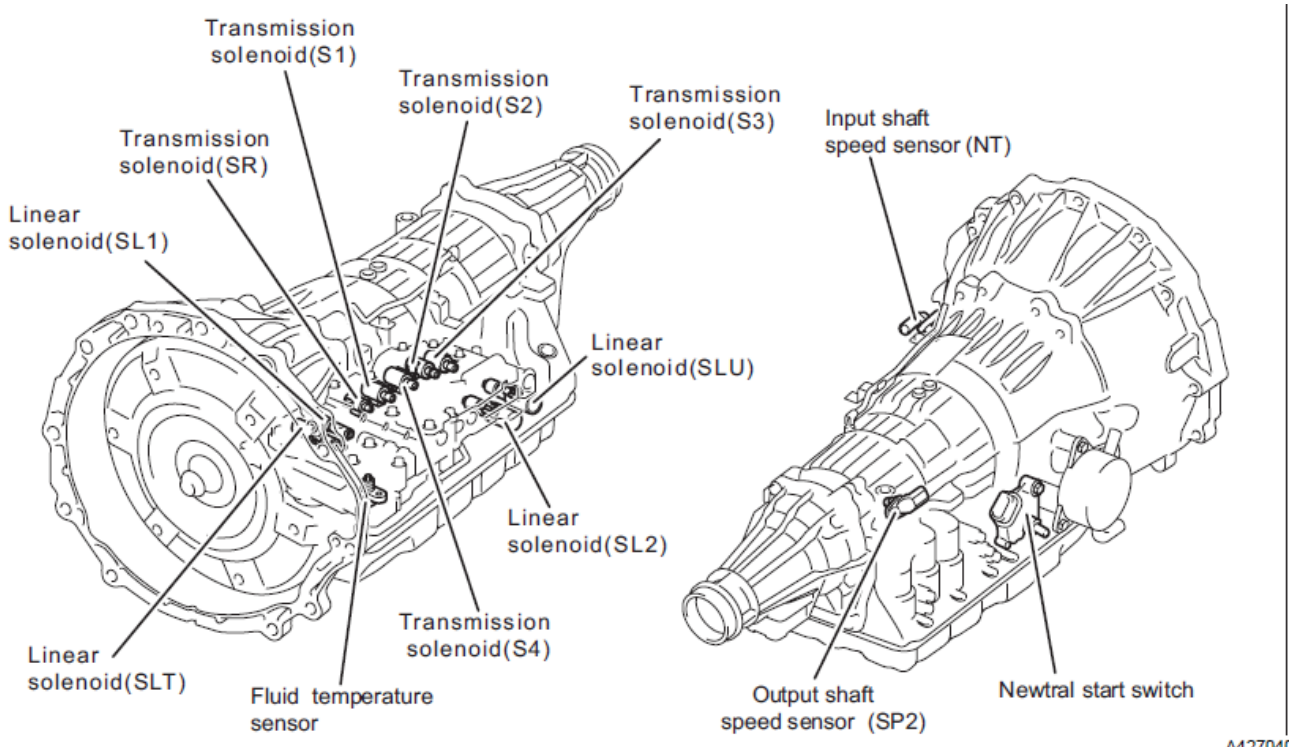
E7 (E) 35 P - E

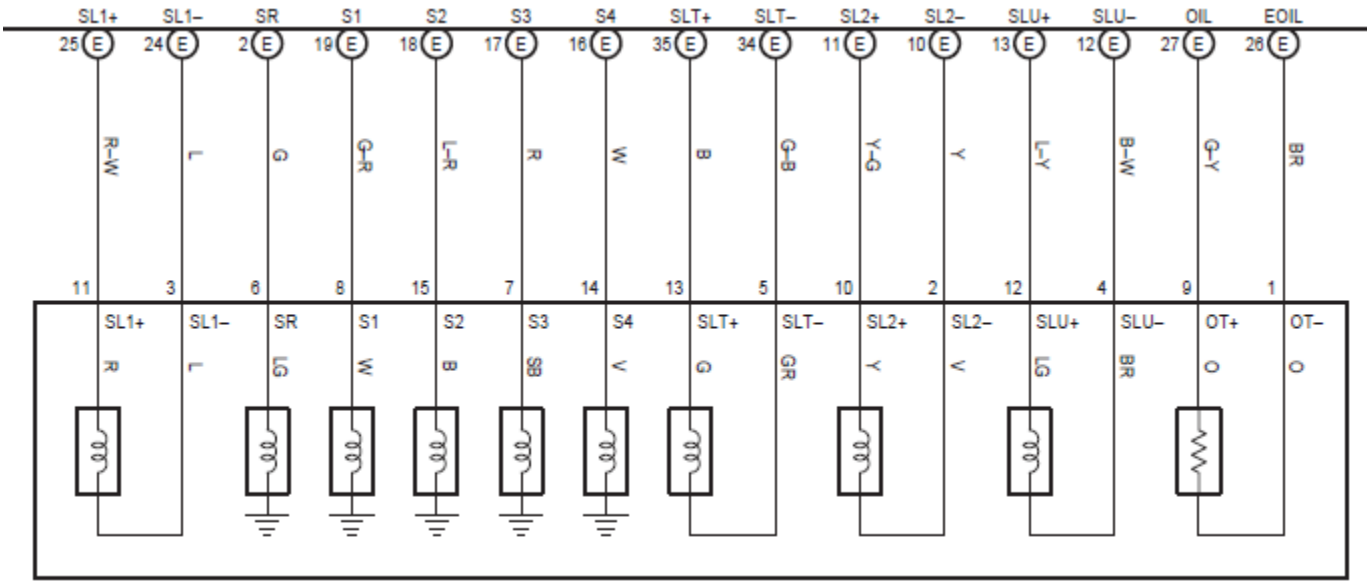
1
2 - SR (G)
3
4 - NSW (L/Y)
5 - MOPS (
6 - P (W)
7 - E1 (BR)
8 - R (G)
9 - D (G/Y)
10 - SL2- (Y)
11 - SL2+ (Y/G)
12 - SLU- (B/W)
13 - SLU+ (L/Y)
14 - MOL (
15
16 - S4 (W)
17 - S3 (R)
18 - S2 (L/R)
19 - S1 (G/R)
20 - NT-
21 - NT+
22 - SP2- (
23 - SP2+ (
24 - SL1- (L)
25 - SL1+ (R/W)
26 - EOIL (BR)
27 - OIL (G/Y)
28 - KNK1 (W)
29 - KNK2 (R)
30 - EKNK1 (B)
31 - EKNK2 (G)
32 - N (G/R)
33
34 - SLT- (G/B)
35 - SLT+ (B)

E8 (F) 34 P - D

1 - Throttle Control , M- (W)
2 - Throttle Control , M+ (B)
3 - GE01 (shield)
4 - ME01 (W/B)
5 - +BM (Y/B)
6 - E03 (W/B)
7
8
9
10
11 - PRG (G/B)
12 - #70 (BR)
13 - #50 (G)
14 - #30 (G/Y)
15 - #10 (L)
16 - IGT3 (L/Y)
17 - IGT1 (G/W)
18 - VV1- (G)
19 - VV1+ (R)
20 - G2- (Y)
21 - G2 (L)
22 - Throttle Control , VTA2 (L/B)
23 - Throttle Control , VTA1 (Y)
24 - HT1A (L/Y)
25 - O1A- (BR)
26 - IGT7 (P/L)
27 - IGT5 (R)
28 - E2 (BR)
29 - Throttle Control , VC (L/R)
30 - OX1A (B)
31 - NE- (W)
32 - NE+ (B)
33 - OC1- (G/W)
34 - OC1+ (L/Y)

6 A/T Solenoid15 เส้น

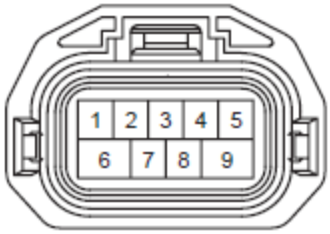




E 1
Electronically Controlled Transmission Solenoid

A/T Position Sw.

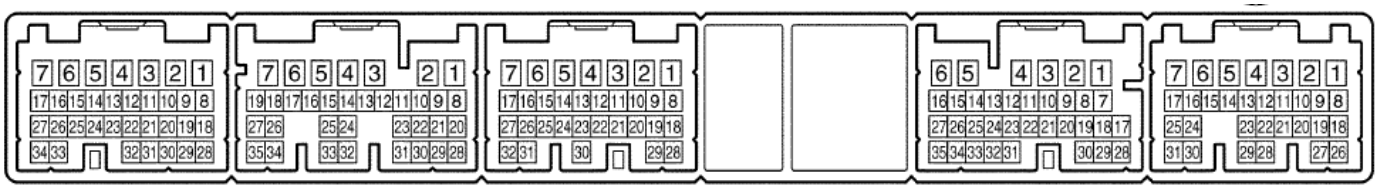
E25
(3UZ–FE, 3GR–FE) Gray



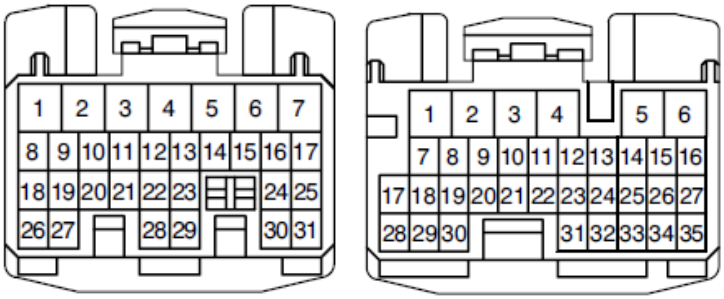
1	-	P (W)
2	-	R (G)
3	-	IG (R)
4		
5	-	N (G/R)
6		
7	-	D (G/Y)
8		
9		

3UZ-FE , Lexus GS430 -2000 (UZS161)

5 A/T 12 เส้น (A650E) Fuel Pump Control , IMO ECU รวม



E4 E3



หน้าปลั๊ก

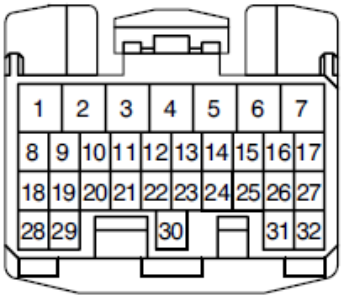
E6 (E) - 31 P

1 - EOM (W/B)
2 - EC (W/B)
3
4 - BATT (B/Y)
5 - +B1 (B/R)
6 - +B (B/R)
7 - +BM (V/Y)
8 -
9 - KD (Y/R)
10 - RFC (G/R) , Cooling Fan ECU
11 - KSW (Y)
12 - STA (B)
13 - MREL (B/Y)
14 - FPC (B/L)
15 - DI (B/R)
16 - ACMG (L/O)
17 - IGSW (B/O)
18 - TAM (L/W) , A/C System
19 - ETAM (BR) , A/C System
20
21
22 - LCS (LG/B) , distance control ECU
23 - ELC (GR/G) , distance control ECU
24 -
25 -
26 - SIL (W/G)
27
28
29
30 - IMLD (V)
31 - CODE (G/B)

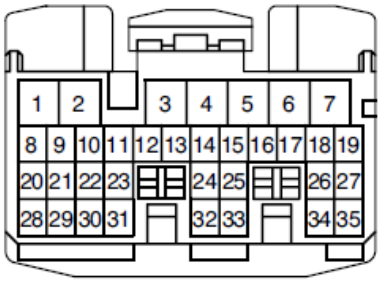
E5 (D) - 35 P

1 - L1 (GR/B) , air suspension ECU
2 - W (GR/R)
3 - TC (P/B)
4 - STP (G/W)
5 -
6 -
7 - HTL2 (B/W)
8 - HTR2 (GR/B)
9 - NEO (G/R)
10 - TBP (B/L)
11
12 - 2 (G/B)
13 - D (Y/B)
14 - 4 (Y/G)
15 - L (R/Y)
16 - TACH (B/Y)
17 - OXR2 (R)
18 - TRC+ (P)
19 - ENG+ (LG)
20 - MPX2 (GR/B) , A/C control
21 - MPX1 (W) , Body ECU1
22 - WFSE (LG/B)
23 - TXCT (L/R)
24 - RXCK (B/W)
25 - PTNK (LG/R)
26 - Accelerator Position Sen. , EPTK (BR)
27 - Accelerator Position Sen. , VPTK (L/R)
28 - OXL2 (W)
29 - TRC- (V)
30 - ENG- (L)
31
32 - Accelerator Position Sen. , VPA2 (B)
33 - Accelerator Position Sen. , VPA (L)
34 - Accelerator Position Sen. , EPA (BR)
35 - Accelerator Position Sen. , VCPA (B)

E5



E7



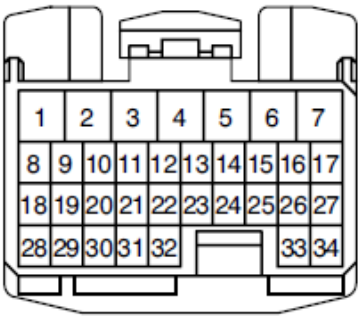
E4 (C) - 32 P

1 - E02 (W/B)
2 - E01 (W/B)
3 - ME01 (W/B)
4 - IGF2L (G/B)
5 - IGF2R (L/B)
6 - IGF1L (LG)
7 - IGF1R (G)
8 - OCR- (L/B)
9 - OCR+ (L/W)
10 - IGT8 (B/W)
11 - IGT6 (R/L)
12 - IGT4 (R)
13 - IGT2 (L/R)
14 - #80 (L)
15 - #60 (BR)
16 - #40 (G)
17 - #20 (W)
18 - VVR- (L)
19 - VVR+ (Y)
20 - ME01 , shield
21 - ACIS (L/W)
22 - CCV (R)
23
24 - THW (R/L)
25 - ETHW (BR)
26 - EVG (G/W)
27 - VG (L/Y)
28 - OXR1 (W)
29 - ME01 , shield
30 - HTR (G/Y)
31 - ETHA (BR)
32 - THA (P/L)

E3 (B) - 35 P

1 - KNKL (B)
2 - KNKL (W)
3 - N (G/R)
4 - 3 (G)
5 - R (G)
6 - P (W)
7 - E1 (BR)
8 -
9 - HTL (L/Y)
10 - SLU- (L/R)
11 - SLU+ (L/Y)
12 - SLN- (L)
13 - SLN+ (Y)
14 - Oil Level Sen. , MOL (Y)
15 - RL (P/L)
16 - S4 (G/R)
17 - S3 (G)
18 - S2 (W)
19 - S1 (R)
20 - NCO- (L)
21 - NCO+ (Y)
22 - SP2- (R)
23 - SP2+ (G)
24 -
25 -
26 - EOIL (BR)
27 - OIL (G/Y)
28 - OXL1 (B)
29 - ME01 , shield
30 -
31 -
32 - ME01 , shield
33
34 - SLT- (G/B)
35 - SLT+ (B)

E6



E2 (A) - 34 P

1 - ME01 , shield
2 - M- (Y)
3 - M+ (L)
4 - E03 (W/B)
5 - OCV- (G/W)
6 - OCV+ (L/Y)
7 - Oil Pressure Sw. , MOPS (Y/B)
8
9
10
11 - PRG (G/B)
12 - #70 (BR)
13 - #50 (G)
14 - #30 (W)
15 - #10 (L)
16 - IGT3 (L)
17 - IGT1 (G/W)
18 - VVL+ (R)
19 - VVL- (G)
20 - ME01 , shield
21 - ME01 , shield
22 - Throttle Control , ETA (BR)
23 - Throttle Control , VC (L/R)
24 - Throttle Control , VTA2 (B)
25 - Throttle Control , VTA (Y)
26 - IGT7 (P/L)
27 - IGT5 (G)
28 - G2- (Y)
29 - G2 (L)
30 - ME01 , shield
31 - NE+ (R)
32 - NE- (G)
33 -
34 - LCK1 (GR) , A/C System

Diesel Engine

TOYOTA

OBD II CODE	
P0100	Mass Air Flow Circuit.
P0101	Mass Air Flow Circuit Range/Performance.
P0105	Manifold Absolute Pressure Circuit.
P0106	MAP/BARO Circuit Range/Performance.
P0110	Intake Air Temperature Circuit.
P0115	Engine Coolant Temperature Circuit.
P0116	Engine Coolant Temperature Range/Performance.
P0120	Throttle Pedal Sensor Switch "A" Circuit.
P0121	Throttle Pedal Sensor Switch "A" Circuit Range/Performance.
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control.
P0130	Heated Oxygen Sensor Circuit - Bank 1 Sensor 1.
P0133	Heated Oxygen Sensor Circuit Slow Response Bank 1 Sensor 1.
P0135	Heated Oxygen Sensor Circuit - Bank 1 Sensor 1.
P0136	Heated Oxygen Sensor Circuit - Bank 1 Sensor 2.
P0141	Heated Oxygen Sensor Circuit - Bank 1 Sensor 2.
P0150	Heated Oxygen Sensor Circuit - Bank 2 Sensor 1.
P0153	Heated Oxygen Sensor Circuit Slow Response Bank 2 Sensor 1.
P0155	Heated Oxygen Sensor Circuit - Bank 2 Sensor 1.
P0156	Heated Oxygen Sensor Circuit - Bank 2 Sensor 2.
P0161	Heated Oxygen Sensor Circuit - Bank 2 Sensor 2.
P0170	Fuel Trim malfunction.
P0171	System too Lean.
P0172	System too Rich.
P0201	Injector Circuit - Cyl. 1.
P0202	Injector Circuit - Cyl. 2.
P0203	Injector Circuit - Cyl. 3.
P0204	Injector Circuit - Cyl. 4.

P0205	**Injector Circuit - Cyl. 5.**
P0206	**Injector Circuit - Cyl. 6.**
P0300	**Random Misfire.**
P0301	**Misfire Detected - Cyl. 1.**
P0302	**Misfire Detected - Cyl. 2.**
P0303	**Misfire Detected - Cyl. 3.**
P0304	**Misfire Detected - Cyl. 4.**
P0305	**Misfire Detected - Cyl. 5.**
P0306	**Misfire Detected - Cyl. 6.**
P0325	**Knock Sensor 1 Circuit.**
P0330	**Knock Sensor 2 Circuit.**
P0335	**Crankshaft Position Sensor "A" Circuit.**
P0336	**Crankshaft Position Sensor "A" Circuit Range/Performance.**
P0340	**CMP Sensor Circuit malfunction.**
P0385	**Crankshaft Position Sensor "B" NE2 Circuit.**
P0401	**EGR Flow Insufficient.**
P0402	**EGR Flow Excessive.**
P0420	**Catalyst System Efficiency below Threshold.**
P0430	**Catalyst System Efficiency below Threshold Bank 2.**
P0440	**EVAP Control System.**
P0441	**EVAP Control System Improper Purge Flow.**
P0446	**EVAP Control System Vent Control.**
P0450	**EVAP Control System Pressure Sensor.**
P0451	**EVAP Control System Pressure Sensor Range/Performance.**
P0500	**Vehicle Speed Sensor.**
P0505	**Idle Speed Control System.**
P0510	**Close Throttle Position Switch.**
P1100	**BARO Sensor Circuit.**

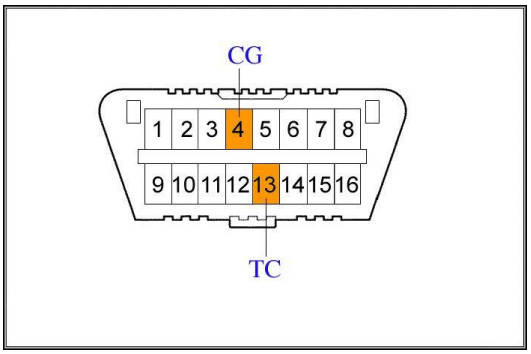
P1120	**Accelerator Pedal Position Sensor Circuit.**
P1121	**Accelerator Pedal Position Sensor Range/Performance Problem.**
P1125	**Throttle Control Motor Circuit.**
P1126	**Magnetic Clutch Circuit.**
P1127	**ETCS Actuator Power Source Circuit.**
P1128	**Throttle Control Motor Lock.**
P1129	**Electric Throttle Control System.**
P1130	**Air-Fuel Sensor Circuit Range/Performance.**
P1133	**Air-Fuel Sensor Circuit Response.**
P1135	**Air-Fuel Sensor Heater Circuit Response.**
P1150	**A/F Sensor Circuit Range/Performance.**
P1153	**A/F Sensor Circuit Response.**
P1155	**A/F Sensor Heater Circuit.**
P1200	**Fuel Pump Relay Circuit.**
P1300	**Igniter Circuit - No. 1.**
P1310	**Igniter Circuit - No. 2.**
P1335	**No Crankshaft Position Sensor Signal - Engine Running.**
P1349	**VVT System.**
P1400	**Sub-Throttle Position Sensor.**
P1401	**Sub-Throttle Position Sensor Range/Performance Problem.**
P1405	**Turbo Pressure Sensor Circuit.**
P1406	**Turbo Pressure Sensor Range/Performance Problem.**
P1410	**EGR Valve Position Sensor Circuit.**
P1411	**EGR Valve Position Sensor Circuit Range/Performance.**
P1500	**Starter Signal Circuit.**
P1510	**Boost Pressure Control Circuit.**
P1511	**Boost Pressure Low.**

P1512	**Boost Pressure High.**
P1520	**Stop Lamp Switch Signal.**
P1565	**Cruise Control Main Switch Circuit.**
P1600	**ECM.**
P1605	**Knock Control CPU.**
P1630	**Traction Control System.**
P1633	**ECM.**
P1652	**Idle Air Control Valve Control Circuit.**
P1656	**OCV Circuit.**
P1658	**Wastegate Valve Control Circuit.**
P1661	**EGR Circuit.**
P1662	**EGR by-pass Valve Control Circuit.**
P1780	**Park/Neutral Switch.**

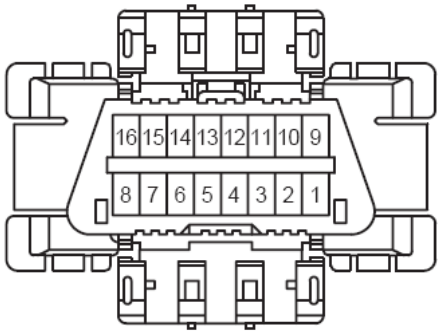
TOYOTA 1KZ-TE (ลัดวงจรขั้ว TE1 – E1)

12	-	TDC sensor
13	-	Crank Angle Sensor
14	-	Timing Control System
15	-	Throttle Control Motor
17	-	ECU
18	-	Spill Control Valve
19	-	Accelerator Pedal Position
22	-	Water Temp. Sensor
24	-	Air Temp. Sensor
32	-	VRP , VRT
35	-	Turbo Pressure Sensor
39	-	Fuel Temp. Sensor
41	-	Throttle Sensor
42	-	Speed Sensor
96	-	EGR Valve

TOYOTA 2KD-TE (common-rail) DLC3 ลัดวงจรขั้ว TC – CG



D15



BATT	WFSE	CAN L	TC	TS	A/B	-	TACH
LVL	SIL	CAN H	SG	CG	-	-	-

Engine Code (Common Rail)

12	-	Engine Speed Sensor
13	-	Engine Speed Sensor
15	-	Throttle Control Motor
17	-	ECU
19	-	Accelerator Pedal Position Sensor
22	-	Water Temp. Sensor
23	-	Air Temp. Sensor
24	-	Atmospheric Pressure Sensor
31	-	Air Flow , Turbo Sensor
33	-	Exhaust Gas Control System
39	-	Fuel Temp. Sensor
42	-	Vehicle Speed Sensor
49	-	Common-rail Pressure Sensor
51	-	Brake Sw.
78	-	Hi Pressure Fuel Pump
89	-	ECU
96	-	EGR Valve Position Sensor
97	-	ECU
99	-	Imobilizer

P0115/34 (05-300)	วงจรโซลินอยด์ควบคุมการอัดอากาศซุปเปอร์ชาร์จเจอร์/เทอร์โบ / ขาด [ระบบเทอร์โบชาร์จเจอร์บกพร่อง]
P0087/49 (05-304)	แรงดันระบบ/รางน้ำมันเชื้อเพลิง - ต่ำเกินไป [ระบบเซ็นเซอร์แรงดันเชื้อเพลิงบกพร่อง]
P0088/78 (05-312)	แรงดันระบบ/รางน้ำมันเชื้อเพลิง - สูงเกินไป [ระบบคอมมอนเรลบกพร่อง]
P0093/78 (05-318)	ตรวจพบระบบเชื้อเพลิงรั่ว - รั่วมาก [เชื้อเพลิงรั่วในระบบคอมมอนเรล]

P0095/23 (05-322)	วงจรเซ็นเซอร์อุณหภูมิอากาศเข้าตัวที่ 2 [เซ็นเซอร์อุณหภูมิอากาศเข้า (ข้อต่อไอดี)]
P0097/23 (05-322)	กระแสไฟฟ้าวงจรเซ็นเซอร์อุณหภูมิอากาศ เข้าตัวที่ 2 ต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิอากาศเข้า ต่ำ (ข้อต่อไอดี)]
P0098/23 (05-322)	กระแสไฟฟ้าวงจรเซ็นเซอร์อุณหภูมิอากาศ เข้าตัวที่ 2 สูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิอากาศเข้า สูง (ข้อต่อไอดี)]
P0100/31 (05-326)	วงจรมาตรวัดปริมาณอากาศ [มาตรวัดปริมาณอากาศ]
P0102/31 (05-326)	วงจรมาตรวัดปริมาณอากาศต่ำ [กระแสไฟฟ้ามาตรวัดปริมาณอากาศต่ำ]
P0103/31 (05-326)	วงจรมาตรวัดปริมาณอากาศสูง [กระแสไฟฟ้ามาตรวัดปริมาณอากาศสูง]
P0105/35 (05-334)	วงจรแรงดันสัมบูรณ์ท่อร่วมไอดี/แรงกด อากาศ [เซ็นเซอร์แรงดันอากาศเข้า]

P0105/35 (05-334)	กระแสไฟฟ้าวงจรแรงดันสัมบูรณ์ท่อร่วมไอดี/แรงกดอากาศต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์แรงดันอากาศเข้าต่ำ]
P0105/35 (05-334)	กระแสไฟฟ้าวงจรแรงดันสัมบูรณ์ท่อร่วมไอดี/แรงกดอากาศสูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์แรงดันอากาศเข้าสูง]
P0110/24 (05-340)	วงจรอุณหภูมิอากาศเข้า [เซ็นเซอร์อุณหภูมิอากาศเข้า]
P0112/24 (05-340)	กระแสไฟฟ้าวงจรอุณหภูมิอากาศเข้าต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิอากาศเข้าต่ำ]
P0113/24 (05-340)	กระแสไฟฟ้าวงจรอุณหภูมิอากาศเข้าสูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิอากาศเข้าสูง]
P0115/22 (05-346)	วงจรอุณหภูมิน้ำหล่อเย็นเครื่องยนต์ [เซ็นเซอร์อุณหภูมิน้ำหล่อเย็นเครื่องยนต์]

P0117/22 (05-346)	กระแสไฟฟ้าวงจรอุณหภูมิน้ำหล่อเย็นเครื่องยนต์ต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิน้ำหล่อเย็นเครื่องยนต์ต่ำ]
P0118/22 (05-346)	กระแสไฟฟ้าวงจรอุณหภูมิน้ำหล่อเย็นเครื่องยนต์สูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิน้ำหล่อเย็นเครื่องยนต์สูง]
P0120/41 (05-352)	วงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “A” บกพร่อง [เซ็นเซอร์ตำแหน่งลิ้นเร่ง]
P0122/41 (05-352)	กระแสไฟฟ้าวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “A” ต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์ตำแหน่งลิ้นเร่งต่ำ]
P0123/41 (05-352)	กระแสไฟฟ้าวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “A” สูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์ตำแหน่งลิ้นเร่งสูง]
P0168/39 (05-357)	อุณหภูมิเชื้อเพลิงสูงเกินไป [ค่าเซ็นเซอร์อุณหภูมิเชื้อเพลิง]
P0180/39 (05-358)	วงจรเซ็นเซอร์อุณหภูมิเชื้อเพลิง “A” [เซ็นเซอร์อุณหภูมิเชื้อเพลิง]
P0182/39 (05-358)	กระแสไฟฟ้าวงจรเซ็นเซอร์อุณหภูมิเชื้อเพลิง “A” ต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิเชื้อเพลิงต่ำ]

P0183/39 (05-358)	กระแสไฟฟ้าวงจรเซ็นเซอร์อุณหภูมิเชื้อเพลิง “A” สูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์อุณหภูมิเชื้อเพลิงสูง]
P0190/49 (05-304)	วงจรเซ็นเซอร์แรงดันรางน้ำมันเชื้อเพลิง [เซ็นเซอร์แรงดันเชื้อเพลิง]
P0192/49 (05-304)	กระแสไฟฟ้าวงจรเซ็นเซอร์แรงดันรางน้ำมันเชื้อเพลิงต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์แรงดันเชื้อเพลิงต่ำ]
P0193/49 (05-304)	กระแสไฟฟ้าวงจรเซ็นเซอร์แรงดันรางน้ำมันเชื้อเพลิงสูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์แรงดันเชื้อเพลิงสูง]
P0200/97 (05-362)	วงจรหัวฉีด/ขาด [ระบบ EDU ของหัวฉีดบกพร่อง]
P0234/34 (05-370)	สภาวะการอัดอากาศซุปเปอร์ชาร์จเจอร์/เทอร์โบมากเกินไป [ระบบเทอร์โบชาร์จเจอร์บกพร่อง]

P0299/34 (05-370)	การอัดอากาศซุปเปอร์ชาร์จเจอร์/เทอร์โบต่ำเกินไป [ระบบเทอร์โบชาร์จเจอร์บกพร่อง]
P0335/12 (05-375)	วงจรเซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยง “A” [เซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยง]
P0339/13 (05-375)	วงจรเซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยง “A” ทำงานเป็นช่วงๆ [ปัญหาเซ็นเซอร์ตำแหน่งเพลาข้อเหวี่ยงทำงานเป็นช่วงๆ]
P0340/12 (05-380)	วงจรเซ็นเซอร์ตำแหน่งเพลาลูกเบี้ยว “A” (หรือเซ็นเซอร์เดี่ยว) [เซ็นเซอร์ตำแหน่งเพลาลูกเบี้ยว]
P0488/15 (05-384)	สมรรถนะ/ช่วงการควบคุมตำแหน่งลิ้นเร่งของการหมุนเวียนแก๊สไอเสีย [ลิ้นเร่งดีเซล]
P0500/42 (05-389)	เซ็นเซอร์ความเร็วรถ “A” [เซ็นเซอร์ความเร็วรถ]

P0504/51 (05-393)	ความสัมพันธ์ของสวิตช์เบรก “A”/ “B” [ไฟเบรก]
P0606 (05-399)	หน่วยประมวลผล ECM/PCM [ECM]
P0607/89 (05-399)	ประสิทธิภาพของชุดควบคุม [ECM]
P0627/78 (05-400)	วงจรควบคุมปั๊มเชื้อเพลิง / ขาด [ระบบคอมมอนเรลบกพร่อง]
P1229/78 (05-312)	ระบบปั๊มเชื้อเพลิง [ระบบคอมมอนเรลบกพร่อง]
P1251/34 (05-370)	สเต็ปมอเตอร์สำหรับวงจรควบคุมเทอร์โบชาร์จเจอร์ (ทำงานเป็นช่วงๆ) [ระบบเทอร์โบชาร์จเจอร์บกพร่อง]
P1601/89 (05-403)	วงจรการปรับแก้หัวฉีด (EEPROM) [ECM]
P1611/17 (05-399)	สัญญาณพัลส์ [ECM]

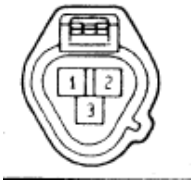
P2008/58 (05-405)	วงจรควบคุมทางเดินอากาศท่อร่วมไอดี / ขาด (Bank 1) [ระบบควบคุมการหมุนเวียนอากาศบกพร่อง]
P2120/19 (05-410)	วงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “D” บกพร่อง [เซ็นเซอร์ตำแหน่งแป้นคันเร่ง (เซ็นเซอร์ตัวที่ 1)]
P2121/19 (05-418)	สมรรถนะ/ช่วงวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “D” [ค่าเซ็นเซอร์ตำแหน่งแป้นคันเร่ง (เซ็นเซอร์ตัวที่ 1)]
P2122/19 (05-410)	กระแสไฟฟ้าวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “D” ต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์ตำแหน่งแป้นคันเร่งต่ำ (เซ็นเซอร์ตัวที่ 1)]
P2123/19 (05-410)	กระแสไฟฟ้าวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “D” สูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์ตำแหน่งแป้นคันเร่งสูง (เซ็นเซอร์ตัวที่ 1)]

P2125/19 (05-410)	วงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “E” บกพร่อง [เซ็นเซอร์ตำแหน่งแป้นคันเร่ง (เซ็นเซอร์ตัวที่ 2)]
P2127/19 (05-410)	กระแสไฟฟ้าวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “E” ต่ำกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์ตำแหน่งแป้นคันเร่งต่ำ (เซ็นเซอร์ตัวที่ 2)]
P2128/19 (05-410)	กระแสไฟฟ้าวงจรสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “E” สูงกว่าที่กำหนด [กระแสไฟฟ้าเซ็นเซอร์ตำแหน่งแป้นคันเร่งสูง (เซ็นเซอร์ตัวที่ 2)]
P2138/19 (05-410)	ความสัมพันธ์ของแรงดันไฟฟ้าสวิตช์/เซ็นเซอร์ตำแหน่งแป้น/ลิ้นเร่ง “D”/ “E” [เซ็นเซอร์ตำแหน่งแป้นคันเร่งบกพร่อง]
P2226/A5*[3] (05-421)	วงจรความกดอากาศ [ECM]
P2228/A5*[3] (05-421)	กระแสไฟฟ้าวงจรความกดอากาศต่ำกว่าที่กำหนด [ECM]
P2229/A5*[3] (05-421)	กระแสไฟฟ้าวงจรความกดอากาศสูงกว่าที่กำหนด [ECM]
U0001/A2*[3] (05-422)	สาย Bus ของระบบการสื่อสารแบบ CAN ความเร็วสูง
B2799/99 (05-1209)	ระบบยับยั้งการทำงานของเครื่องยนต์บกพร่อง

Alternator (หน้าปลั๊ก)



L	IG	S



L (1)	IG (2)	S (3)



S (1)	L (2)	IG (3)

A14 BLACK



S	IG
M	L

2L-TE(กล่องเล็ก , A/T แยก) 89661-26070

26P

E01	TCV	SPV	STA	NSW	NE+	TDC+	VC	PIM	VRP	THW	EGR	FSR
E02	*	E1	*	*	NE-	TDC-	THA	VTA	VRT	E21	E2	OP

16P

T	OD	*	*	*	STH1	*	W
IDL	*	*	*	*	STH2	*	ECT

12P

G-IND	SPD	ACT	TIL	BATT	G REL
TAC	A/C	IG	+BG	+B	+BF

2L-TE , A/T (89661-22730) , ปลั๊กขาว

26 P

E01	TCV	SPV	VSV1	VSV2	P	PS	*	TDC+	NE+	*	S1	SL
E02	ACT	EGR	HSW	OIL W	2	L	SP2	TDC-	NE-	*	S2	E1

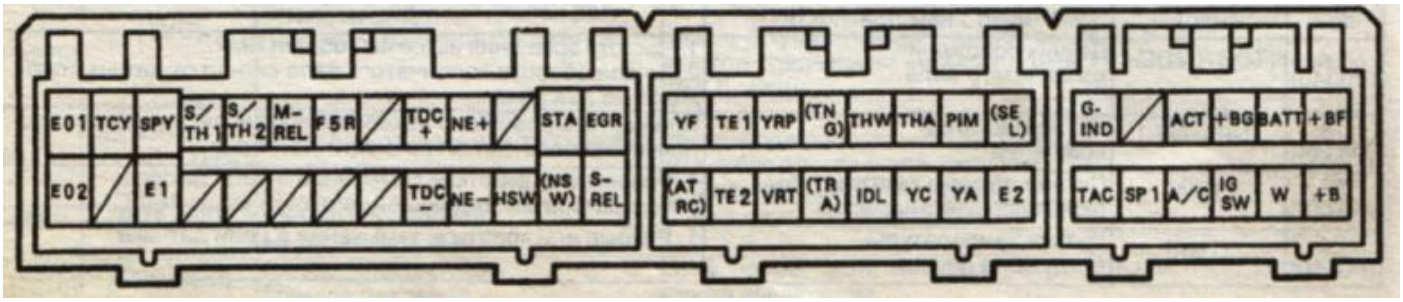
16 P

VF	TE2	VRP	THF	THW	THA	PIM	VC
TT	TE1	VRT	THO	IDL	VTA	*	E2

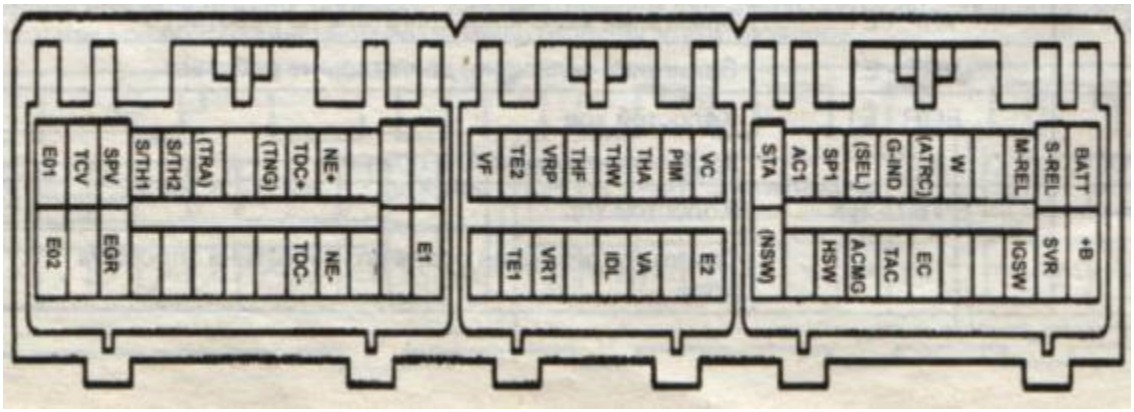
22 P

STA	A/C	SP1	*	G-IND	*	W	STP	M-REL	S-REL	BATT
NSW	*	*	PTC	TAC	*	OD2	PWR	IG	FSR	+B

2L-TE , Mark || - 1992

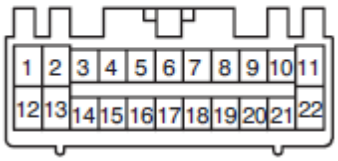


2L-TE , Mark || - 1995

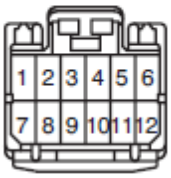


5L-E - Prado

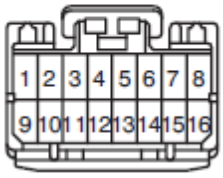
E 9
(5L-E)



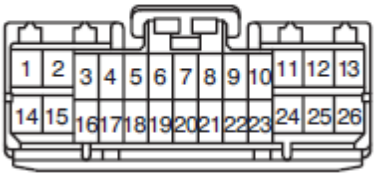
E10
(5L-E)



E11
(5L-E)



E12
(5L-E)



E – 9 (A)

1	-	BATT (L)	12	-	+ B (B)
2	-	SREL (R), +	13		
3	-	MREL (W/G), +	14	-	IGSW (B/O)
4	-	TC (P/L)	15	-	SIL (R/Y)
5	-	W (R/B)	16		
6	-	IMO (L/R)	17	-	IMI (W/R)
7			18		
8			19	-	STP (G/Y)
9	-	SP1 (V/R)	20		
10			21		
11	-	STA (B/Y)	22		

E – 10 (B)

1	-	GIND (Y/R)	7	-	TACH (B/W)
2	-	AC1 (Y/R)	8	-	ACT (Y/G)
3	-	E0M (W/B)	9		
4	-	EPA (BR/W)	10		
5	-	VPA (W/L)	11	-	ST1- (R/L)
6	-	VCPA (LG/R)	12	-	VPA2 (GR/G)

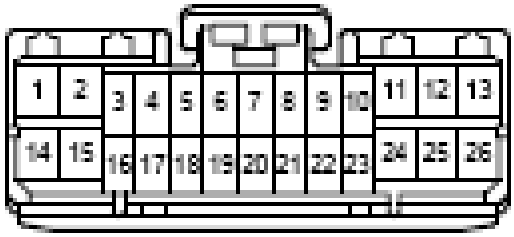
E – 11 (C)

1	-	VC (R/W)	9	-	E2 (BR)
2	-	PIM (L/B)	10		
3	-	THA (B/L)	11		
4	-	THW (R/L)	12		
5	-	THF (G/B)	13		
6	-	DATA (Y)	14	-	CLK (L)
7			15	-	THOP (GR)
8			16		

E – 12 (D)

1			14	-	E1 (BR)
2			15		
3			16	-	TDC- (G)
4			17	-	TDC+ (R)
5			18	-	NE- (W)
6			19	-	NE+ (B)
7	-	LU-B (L/Y)	20		
8	-	LU+B (L/R)	21		
9	-	LU-B (L/W)	22		
10	-	LU+A (L/B)	23		
11	-	TCV (R/W)	24		
12	-	SPV+ (R/L)	25	-	SPV- (R/Y)
13	-	E01 (W/B)	26	-	E02 (W/B)

A/T , 1KZ – TE , 3000 EFI



26 P

S1	S2	SL	E2	N	A/T TEMP	PWR	VA	SP1	SP2	NE	ECCT	OD2
+B	BATT	E1	STP	2	L	*	*	Oil W	*	C/C	IDL	DG

ECCT , NE , VA , IDL ⟶ ENGINE ECU

OD2 - L/B ECCT - B/O NE - Gr SP2 - Gr SP1 - V/W VA - L/O PWR - B A/T TEMP - B/L N - W A/T TEMP - Br/W SL - W/G S2 - B/O S1 - Gr	DG - Y/B IDL - W/G * * W - B/R * * L - L 2 - Y STP - G/W E1 - Br BATT - W/R +B - B/R

1 KZ-TE(กล่องเล็ก , A/T แยก) 89661-26180

26P (หลังปลั๊ก)

E01	TCV	SPV	VSV1	VSV2	M REL	FSR	*	TDC+	NE+	*	STA	EGR
E02	*	E1	PSW	SOL+	VTH	NEO	ESA1	TDC-	NE-	HSW	NSW	S REL

16P

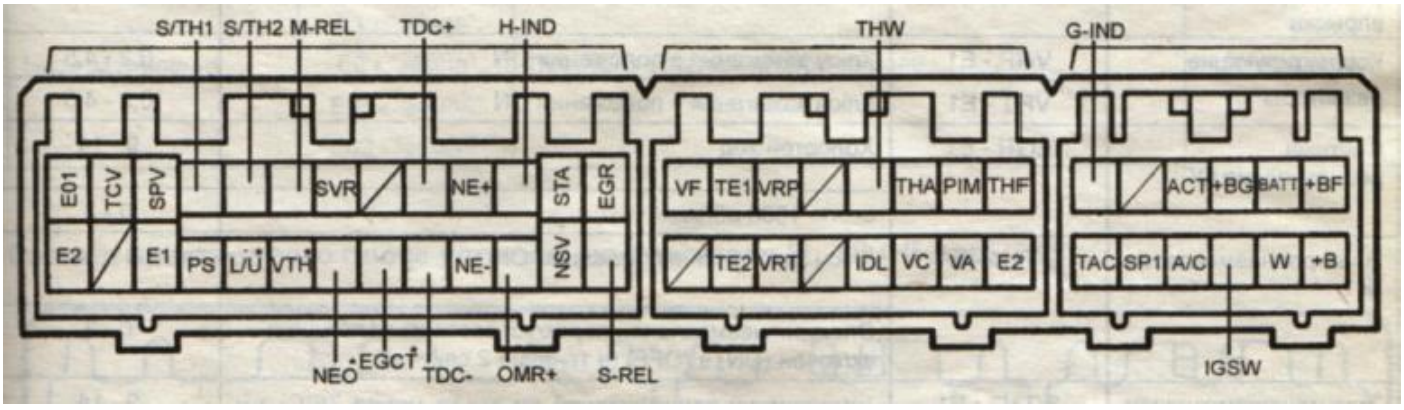
VF	TE1	VRP	*	THW	THA	PIM	THF
*	TE2	VRT	*	IDL	VC	VTA	E2

12P

G IND	*	ACT	+BG	BATT	+B
TAC	SP1	A/C	IG	W	+B

TDC+ - B
TDC- - W
NE+ - P
NE- - V
VSV1 - B
VSV2 - BR
VRT - FRONT
VRP - REAR

1KZ-TE (Hi-Ace)



1KZ-TE , A/T (89661-60250)

26 P

E01	TCV	SPV	VSV1	VSV2	P	PS	*	TDC+	NE+	*	S1	SL
E02	ACT	EGR	HSW	OILW	2	L	SP2	TDC-	NE-	*	S2	E1

16 P

VF	TE2	VRP	THF	THW	THA	PIM	VC
TT	TE1	VRT	THO	IDL	VTA	*	E2

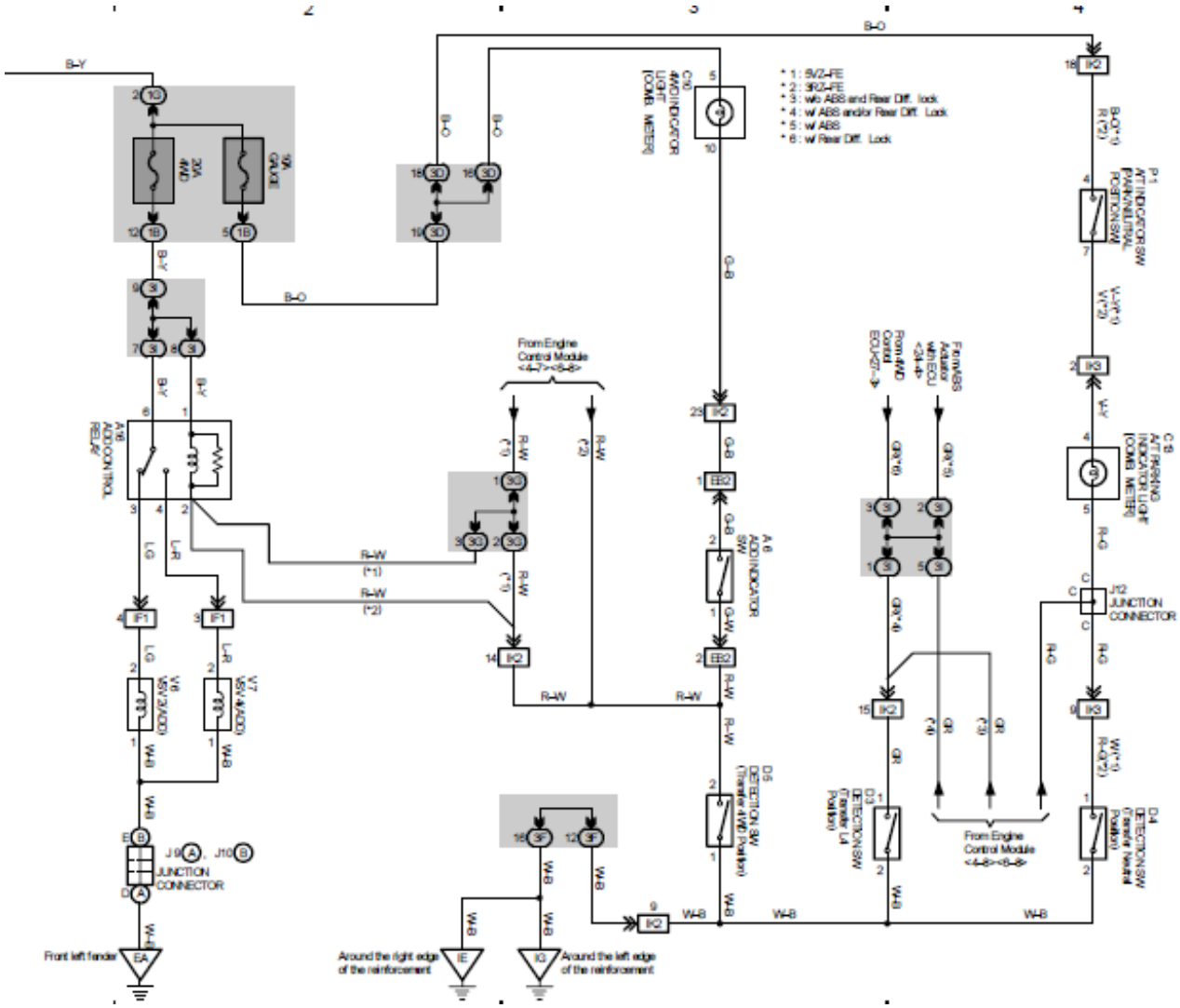
22 P

STA	A/C	SP1	*	G IND	*	W	STP	M REL	S REL	BATT
NSW	*	*	PTC	TAC	*	OD2	PWR	IG	FSR	+B

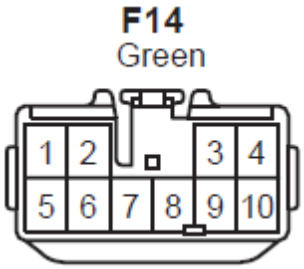
NE+	-	R
NE-	-	W
TDC+	-	B
TDC-	-	W
VRT	-	GR
VRP	-	BR

4 Wheel Drive

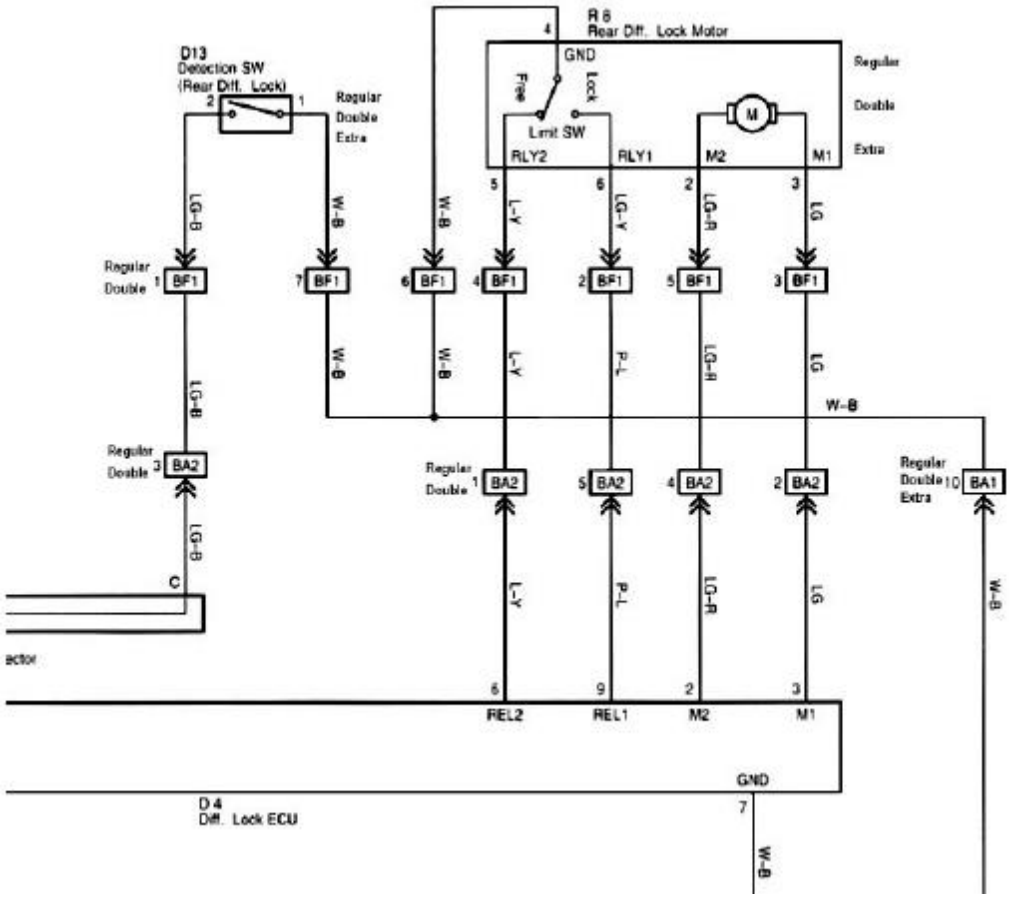
ADD Relay Control
Transfer 4WD Position Sw.
Transfer L4 Position Sw.
Transfer Neutral Position Sw.



4WD ECU – Tiger 1KZ-TE , Sport Rider

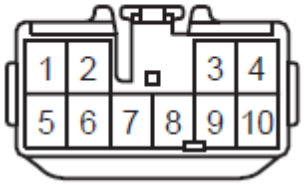


1 - RLP (LG/B) , Diff Lock Lamp 2 - M2 (LG/R) 3 - M1 (LG) 4 - R (L/W) , Diff Lock Sw. , + 5 - IG (B/Y)	6 - REL2 (L/Y) Free Position 7 - E1 (W/B) 8 - 4WD (L/R) 9 - REL1 (P/L) , Lock Position 10 - SPD (G/O)

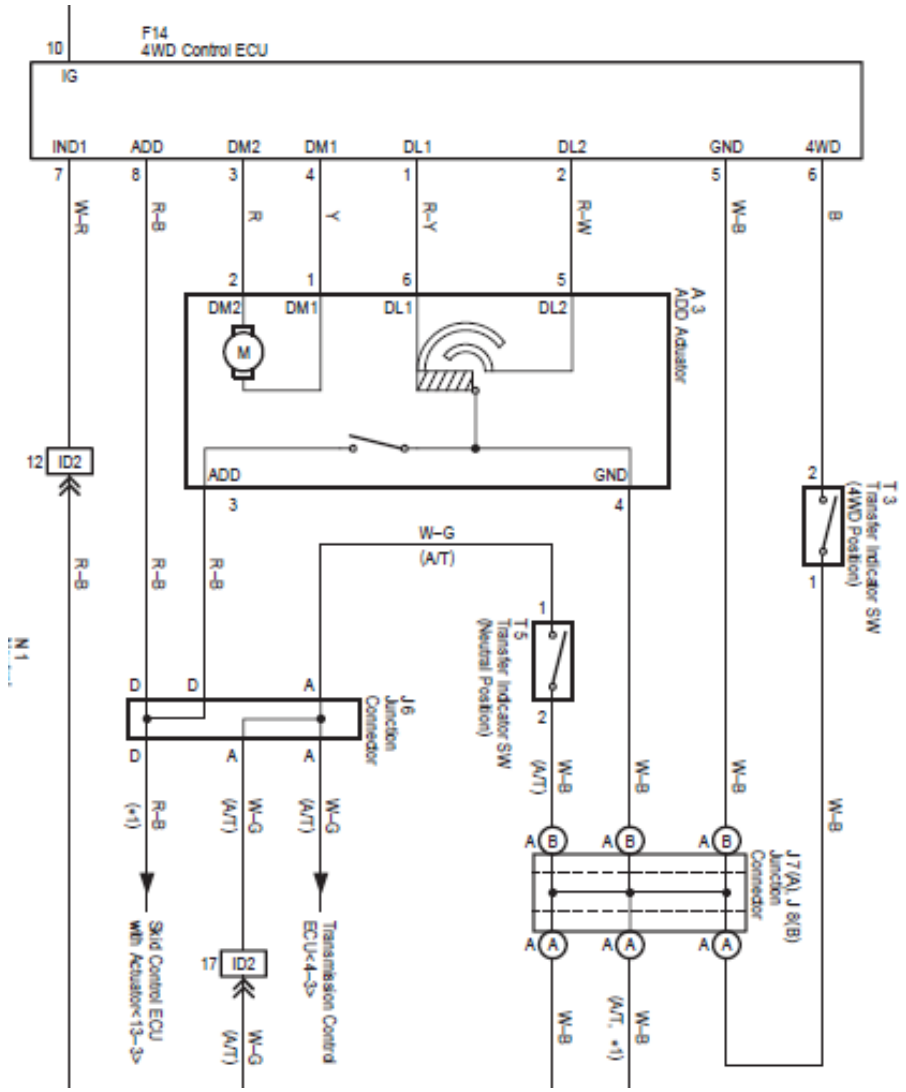


4WD ECU – Vigo

F14
Green



1 - DL1 (R/Y) 2 - DL2 (R/W) 3 - M2 (R) 4 - M1 (Y) 5 - E1 (W/B)	6 - 4WD Sw. (W/B) , - 7 - 4WD IND (W/R) 8 - ADD (R/B) , Detection Sw. , - 9 - 10 - IG (B/Y)

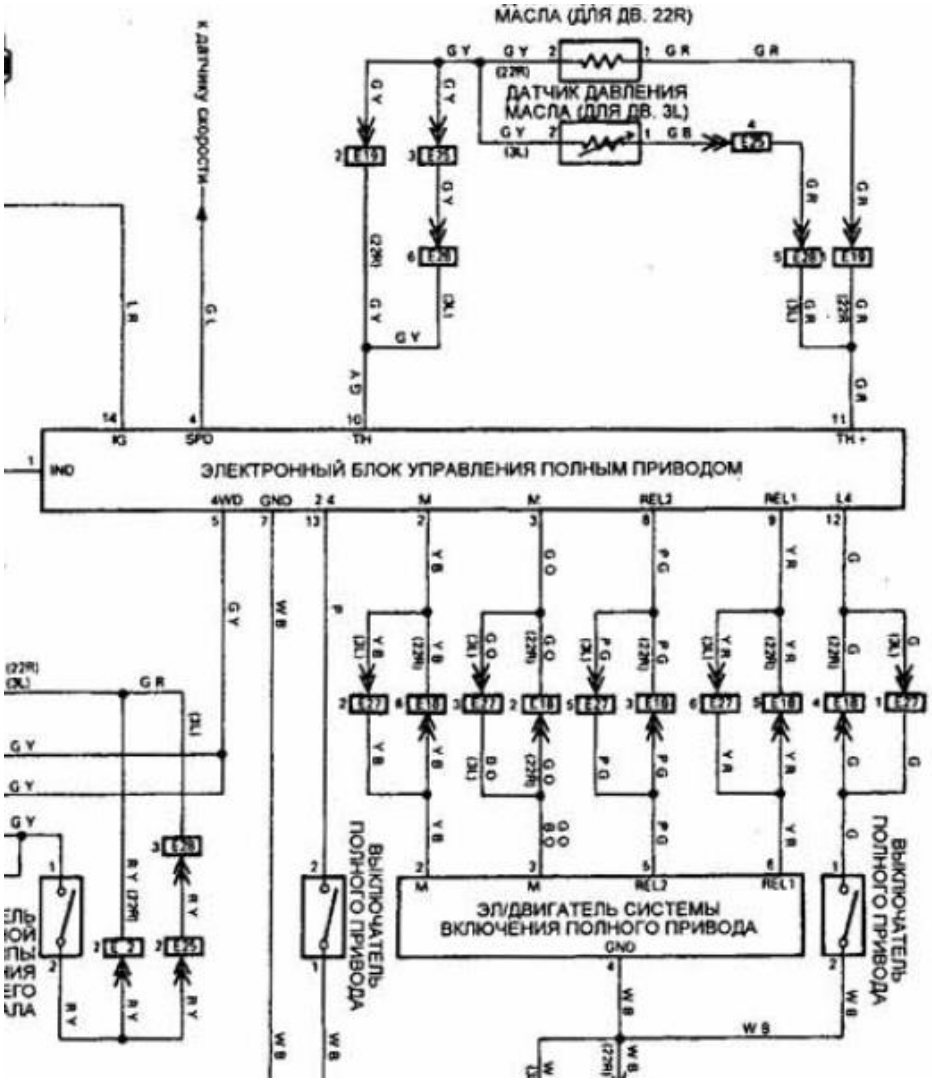


4WD ECU - Surf

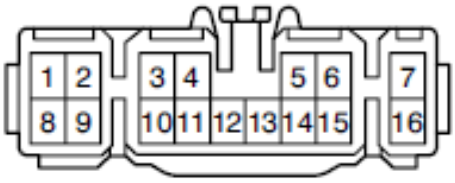
หลังปลั๊ก

6	5	4			3	2	1
14	13	12	11	10	9	8	7

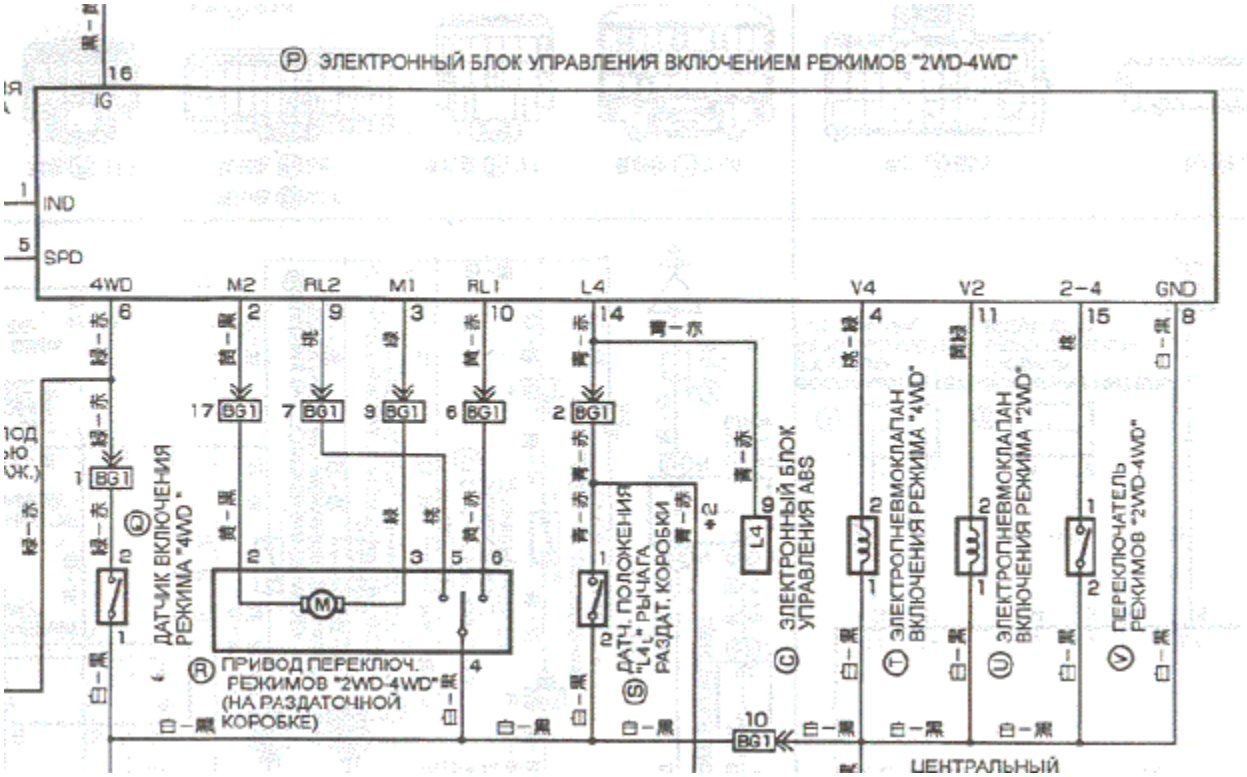
1 - 4WD IND 2 - M2 (Y) , motor 3 - M1 (G) , motor 4 - SPD 5 - 4WD Rel. 6 7 - E1 8 - REL2	9 - RL1W 10 - TH- 11 - TH+ 12 - L4 Sw. , - 13 - 2-4 Sw. , - 14 - IG



4WD ECU(Part Time 4WD)- Surf, motor selector 5 เส้น

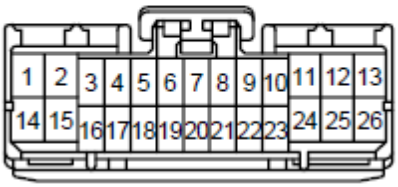


1 - 4WD IND (G/B) 2 - M2 (Y) , motor 3 - M1 (G) , motor 4 - VSV 4WD (P/G) 5 - SPD (G/O) 6 - 4WD Sw. (R/B) , - 7 8 - E1 (W/B)	9 - RL-2 (R) , 2WD ชุดมอเตอร์ 10 - RL-1 (R/L) , 4WD ชุดมอเตอร์ 11 - VSV 2WD (LG) 12 13 14 - L4 (L/R) , - Transfer L4 Position 15 - 2-4 Select Sw. (P) , - 16 - IG (B/Y)

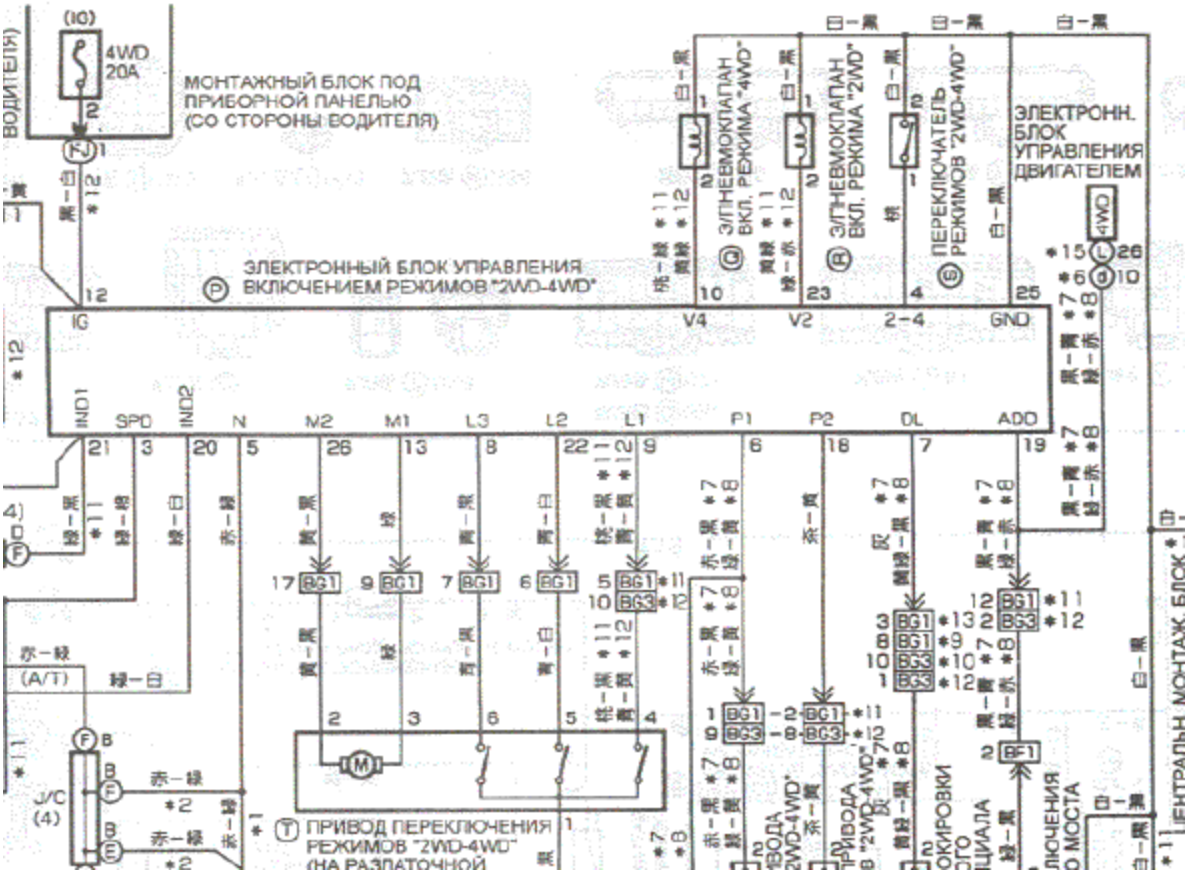


4WD ECU (Multi Mode 4WD) - Surf , motor selector 6 เส้น

F 6

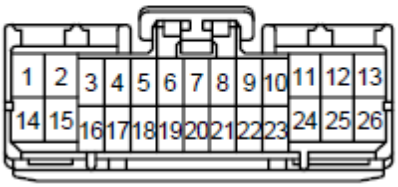


1	14
2	15
3 - SPD	16
4 - 2-4 Sw. , -	17
5 - N	18 - P2 Sw. , -
6 - P1 Sw. , -	19 - ADD Sw. , -
7 - DL Sw. , -	20 - IND2
8 - L3 , motor selector	21 - IND1
9 - L1 , motor selector	22 - L2 , motor selector
10 - VSV 4WD	23 - VSV 2WD
11	24
12 - IG	25 - E1
13 - M1	26 - M2

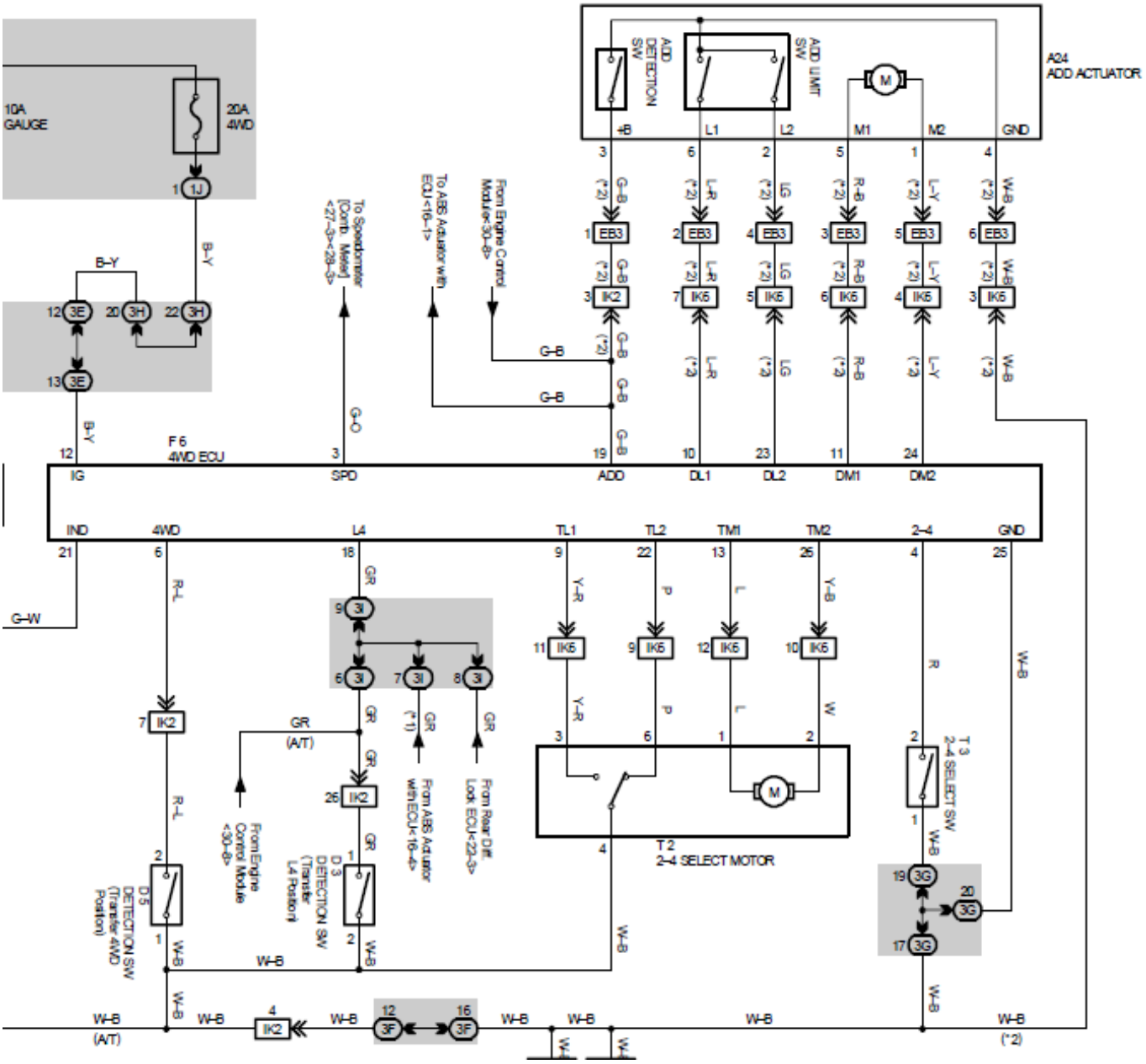


4WD ECU - Tacoma , motor selector 6 เส้น

F 6

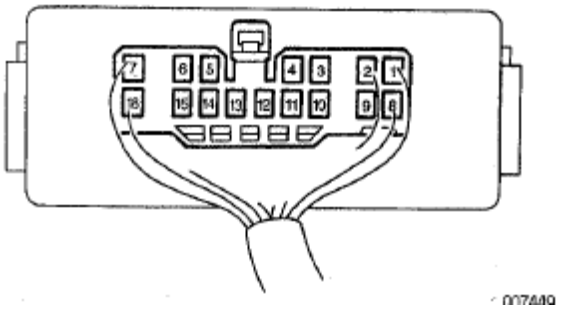


1				14	
2				15	
3	-	SPD		16	
4	-	2-4 Select Sw. , -		17	
5				18	- Transfer L4 Position Sw. , -
6	-	Transfer 4WD Position Sw. , -		19	- ADD Sw. - , ADD Actuator
7				20	
8	-			21	- 4WD Lamp
9	-	L1 , motor selector		22	- L2 , motor selector
10	-	DL1 , ADD Actuator		23	- DL2 , ADD Actuator
11	-	M1 , ADD Actuator		24	- M2 , ADD Actuator
12	-	IG		25	- E1
13	-	M1		26	- M2


10A
GAUGE
20A
4WD
1J
B–Y
12 3E
20 3H
22 3H
13 3E
A24
ADD ACTUATOR
ADD DETECTION SW
ADD LIMIT SW
+B
L1
L2
M1
M2
GND
To Speedometer [Comb. Meter] <27–3><28–3>
To ABS Actuator with ECU <16–1>
From Engine Control Module <30–8>
EB3
IK2
IK5
G–B
L–R
LG
R–B
L–Y
W–B
F 6
4WD ECU
IG
SPD
ADD
DL1
DL2
DM1
DM2
IND
4WD
L4
TL1
TL2
TM1
TM2
2–4
GND
G–W
R–L
GR
3I
Y–R
P
L
Y–B
W
R
GR (A/T)
From Engine Control Module <30–8>
From ABS Actuator with ECU <16–4>
From Rear Diff Lock ECU <22–3>
D 5
DETECTION SW (Transfer 4WD Position)
D 3
DETECTION SW (Transfer L4 Position)
T 2
2–4 SELECT MOTOR
T 3
2–4 SELECT SW
3G
3F
W–B
(A/T)
(*1)
(*2)

4WD ECU – 4 Runner 3RZ-FE

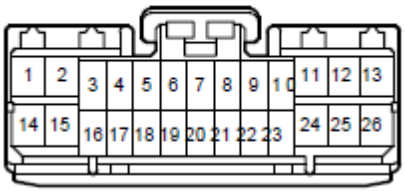
From Back Side



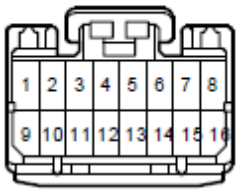
1 - IND	9 - RL2
2 - M2	10 - RL1
3 - M1	11 - V2
4 - V4	12 - TH-
5 - SPD	13 - TH+
6 - 4WD	14 - L4
7	15 - 2-4
8 - E1	16 - IG

5L-E – Tiger

(3RZ–FE, 5L–E) E 3

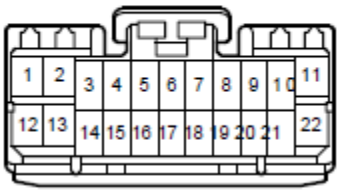


FE, 5L–E) E 4

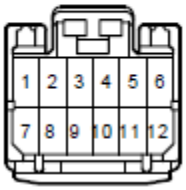


E3 (A)	E4 (B)
1	1 - VC (B)
2	2 - PIM (B/Y)
3	3 - THA (P/L)
4	4 - THW (P)
5	5 - THF (LG/B)
6	6 - DATA (V) , Injection Pump
7 - LU-B (LG)	7
8 - LU+B (P)	8
9 - LU-A (Y)	9 - E2 (G/R)
10 - LU+A (R)	10
11 - TCV (G/B)	11
12 - SPV+ (GR)	12
13 - E01 (W/B)	13
14 - E1 (BR)	14 - CLK (P) , Injection Pump
15	15 - THOP (L/R) , Throttle Open Sw.)
16 - TDC- (G)	16
17 - TDC+ (R)	
18 - NE- (B)	
19 - NE+ (W)	
20	
21	
22	
23	
24	
25 - SPV- (R/B)	
26 - E02 (W/B)	

(3RZ–FE, 5L–E) E 5

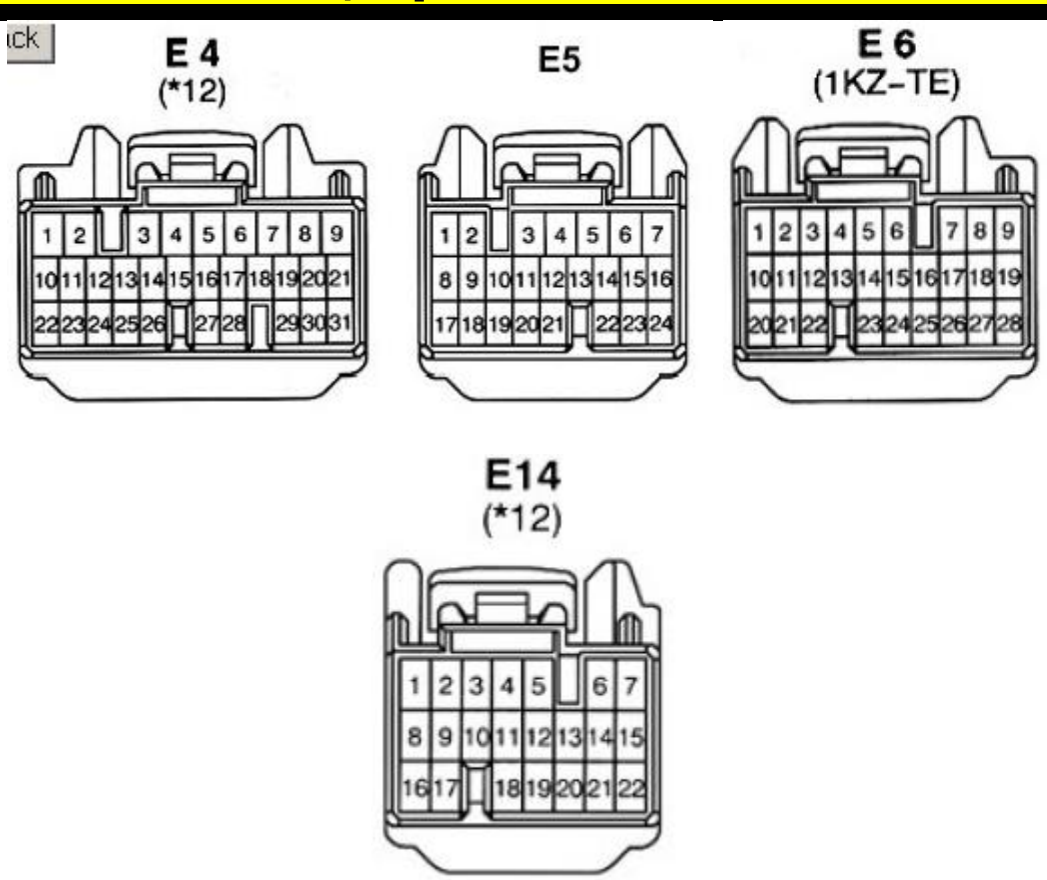


(5L–E) E 7



E5 (C)	E7 (D)
1 - BATT (Y) 2 - SREL (B/R) , + 3 - MREL (L/O) , + 4 - TC (V) 5 - W (P) 6 - 7 8 9 - SPD (G/O) 10 11 - STA (P) 12 - +B (R/L) 13 14 - IG (B/W) 15 - SIL (R) 16 17 18 19 20 21 22	1 - GIND (R/W) 2 - AC1 (Y) 3 - PDL (L) , accelerator Pedal Sw. , - 4 - E2C (LG) 5 - VA (B/L) 6 - VCC (V) 7 - TAC (B) 8 - ACT (LG/R) 9 - IDL (B/R) 10 11 12 - VAS (P)

1KZ-TE , Sport Rider คันเร่งไฟฟ้า



E4 (A)	E5 (B)
1 -	1
2 -	2 -
3 -	3
4 -	4 -
5 - TCV (G/B)	5
6 - SPV- (R/B)	6 -
7 - SPV+ (GR)	7
8	8 -
9 -	9
10	10
11 -	11 -
12 - THOP (L/R) , Throttle Open Sw.	12 - CLK (P) , Injection Pump
13 - FSW (L) , First Gear Position SW.	13 - DATA (V) , Injection Pump
14 -	14 - THW (P)
15 -	15 -
16 - TDC+ (R)	16 - PIM (B/Y)
17 - NE+ (W)	17
18 -	18
19 - LU+B (P) , Throttle Control Motor	19 -
20 - LU+A (R)	20 - E2 (G/R)
21 - E01 (W/B)	21 - VCV (B)
22 - E1 (BR)	22 - THA (P/L)
23	23 -
24	24 - THF (LG/B)
25	
26	
27 - TDC- (G)	
28 - NE- (B)	
29 - LU-B (LG)	
30 - LB-A (Y)	
31 - E02 (W/B)	

E6 (C)

1
2 - TAC (R/W)
3
4 -
5 -
6 - STA (P/B)
7 -
8 - VCC (V)
9 - PDL (L) , Accelerator Pedal SW.
10 -
11
12 -
13 -
14 -
15 -
16 -
17 -
18 - IDL (B/R)
19 - VA (B/L)
20 -
21 -
22 - SP1 (G/O)
23 -
24 -
25
26
27 - E2C (LG)
28 - VAS (R)

E14 (D)

1 - +B (G)
2 - BATT (R/B)
3 - GIND (GR/L)
4 -
5 -
6 -
7 - MREL (L/O) , +
8
9 - IG SW. (B/W)
10
11 -
12 - W (P)
13
14 -
15
16 - SREL (B/R) , +
17 -
18 - TC (V)
19 - SIL (R)
20 -
21 -
22 -

Throttle Control Motor



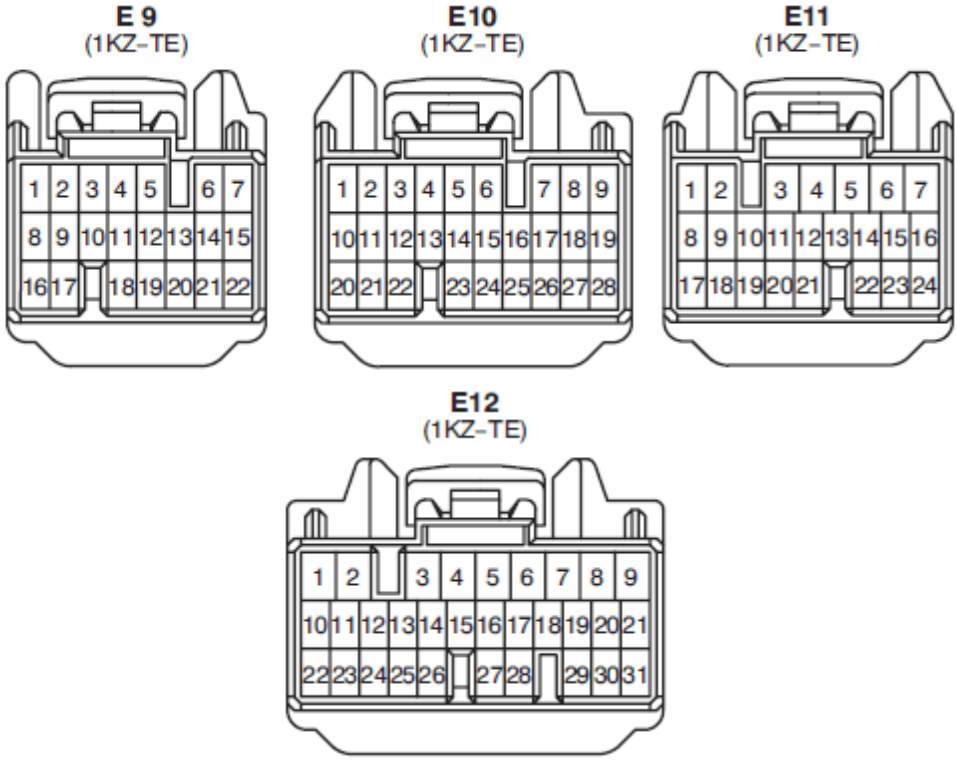
LU-B (LG)	**+B (G)**	**LU+B (P)**
LU-A (Y)	**+B (G)**	**LU+A (R)**

Accelerator Pedal Position Sensor



VAS (R)	**E2C (LG)**	**IDL (B/R)**	**VCC (V)**	**VA (B/L)**

1KZ-TE , A/T - Land Cruiser คันเร่งไฟฟ้า



E9 (A)

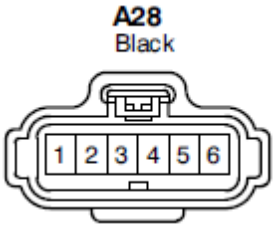
1 - + B (B)
2 - BATT (L)
3 - GIND (Y/R)
4 - OILW (P)
5
6
7 - MREL (W/G) , +
8
9 - IGSW (B/O)
10
11 - DM (W)
12 - W (R/B)
13 - TRC+ (B)
14 - ENG+ (R)
15 - IMO (L/R)
16 - SREL (R) , +
17
18 - TC (P/L)
19 - SIL (R/Y)
20 - TRC- (Y)
21 - ENG- (W)
22

E10 (B)

1 - HSW (G/Y)
2 - TAC (B/W)
3
4 - AC1 (Y/R)
5
6 - STA (B/Y)
7
8 - VCPA (LG/R)
9
10
11 - 3 (G/O)
12 - SNW (GR/L)
13 - ACT (Y/G)
14 - STP (G/Y)
15 - NSW (L/Y)
16 - SNWL
17
18
19 - VPA (W/L)
20 - EOM (W/B)
21
22 - SP1 (V/R)
23 - ST1- (R/L)
24
25
26
27 - EPA (BR/W)
28 - VPA2 (GR/G)

E11 (C)	E12 (D)
1	1
2	2 - EGRC
3	3 - NEO (P)
4 - SL (P/L)	4 - EGR Sol. (G/B)
5 - S2 (W/L)	5 - TCV (R/W)
6 - S1 (GR)	6 - SPV- (R/Y)
7 - IMI (W/R)	7 - SPV+ (R/L)
8 - SLT+ (LG/B)	8
9 - 2 (L)	9
10 - L (G/R)	10
11	11 - L4 (G/W)
12 - CLK (P)	12 - THOP (GR)
13 - DATA (V)	13
14 - THW (R/L)	14 - SP2+ (R)
15 - THO (B/Y)	15
16 - PIM (L/B)	16 - TDC+ (L)
17 - SLT- (L/R)	17 - NE+ (B)
18 - D (G)	18
19 - R (R/B)	19 - LU+B (L/R)
20 - E2 (BR)	20 - LU+A (L/B)
21 - VC (R/W)	21 - E01 (W/B)
22 - THA (B/L)	22 - E1 (BR)
23 - EGLS (L/W)	23 - TFN (G)
24 - THF (G/B)	24
	25
	26 - SP2- (G)
	27 - TDC- (Y)
	28 - NE- (W)
	29 - LU-B (L/Y)
	30 - LU-A (L/W)
	31 - E02 (W/B)

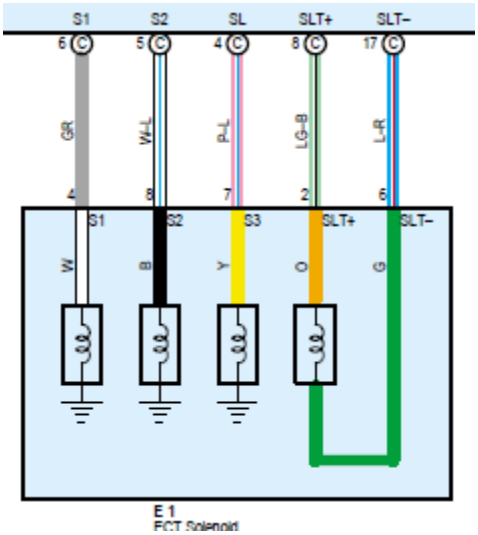
Accelerator Pedal Position Sensorชนิด 6 สาย



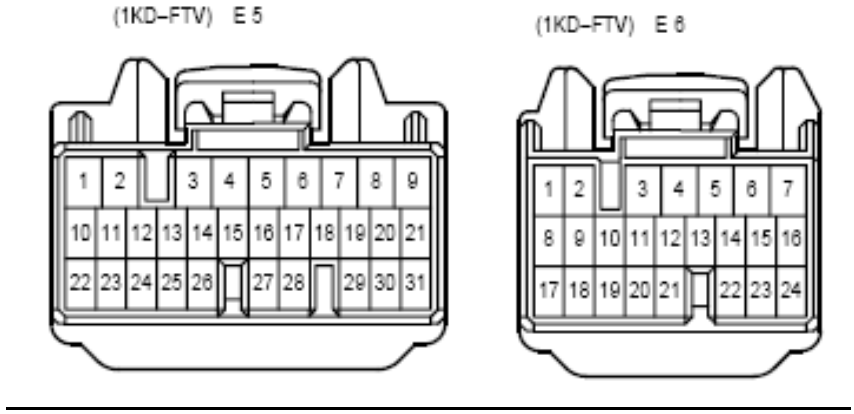
VCP2 (BR/R)	EPA2 (BR/Y)	VPA2 (GR/G)	VCPA (LG/R)	EPA (BR/W)	VPA (W/L)

A/T Solenoid


1 2 3 4
5 6 7 8


S1
S2
SL
SLT+
SLT–
6
5
4
8
17
GR
W-L
P-L
LG-B
L-R
4
8
7
2
6
S1
S2
S3
SLT+
SLT–
W
B
Y
O
G
E 1

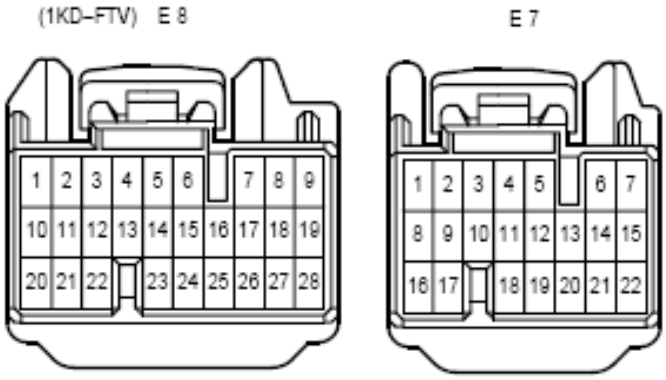
2KD-FTV , Tiger D4D (89666-35530) - หัวฉีด 4 เส้น



E 4 (31 P) **E 5 (24 P)** **E 6 (28 P)** **E 7 (22 P)**

หน้าปลั๊ก

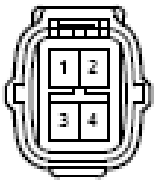
E 4 (31 P)	E 5 (24 P)
1	1
2 - EGR (G/B) , -	2
3	3
4	4
5	5
6	6
7	7
8 - PCV+ (R/L)	8
9 - PCV- (L/W)	9
10	10
11 - THOP (Y/G) -	11 - EVG (LG)
12 - # 4 (B/Y)	12 - VELF (L)
13 - # 3 (B/R)	13 - THA (R/B)
14 - # 2 (B/W)	14 - THW (G)
15 - # 1 (L)	15
16 - G+ (B)	16 - PIM (B/Y)
17 - NE+ (R)	17 - PA (B/R) , -
18 - INJF (B/L)	18
19 - LU+B (G/Y)	19 - VG (Y/R)
20 - LU+A (G/R)	20 - E2 (G/R)
21 - E01 (W/B)	21 - VC (B)
22 - E1 (BR)	22 -
23 - RINJ4 (L/Y)	23 - PCR (P/L)
24 - RINJ3 (P/L)	24 - THF (W)
25 - RINJ2 (G/W)	
26 - RINJ1 (R/W)	
27 - G- (W)	
28 - NE- (G)	
29 - LU-B (V)	
30 - LU-A (GR)	
31	



E 6 (28 P)	E 7 (22 P)
1	1 - + B (R/L)
2	2 - BATT (R)
3	3 - GIND (R/W) , -
4	4
5 - ACT (LG/R)	5
6 - AC1 (Y)	6
7	7 - MREL (L/O) , +
8 - VCP1 (R/W)	8 - EDUREL (V/R) ,
9	9 - IG (B/W)
10 - TACH (B)	10
11	11
12	12 - W (R/W)
13 - VCP2 (P)	13
14 - STP (G/W)	14
15	15 - STA (V/Y)
16	16 - SREL (B/R) , +
17	17
18	18 - TC (V)
19 - VPA1 (B/R)	19 - SIL (R)
20	20
21	21
22 - SP1 (G/O)	22
23 - ST1- (L/Y)	
24 - EP2 (LG)	
25	
26	
27 - EP1 (B/L)	
28 - VPA2 (P)	

Injector แบบ 4 เส้น

(1KD-FTV) I10



INJ1	E2
#1	COM1

Accelerator Sensor แบบ 6 เส้น

A58 BLACK



EP1	VPA2	EP2
VCP1	VPA1	VCP2

Throttle Control Motor แบบ 6 เส้น

A58 BLACK

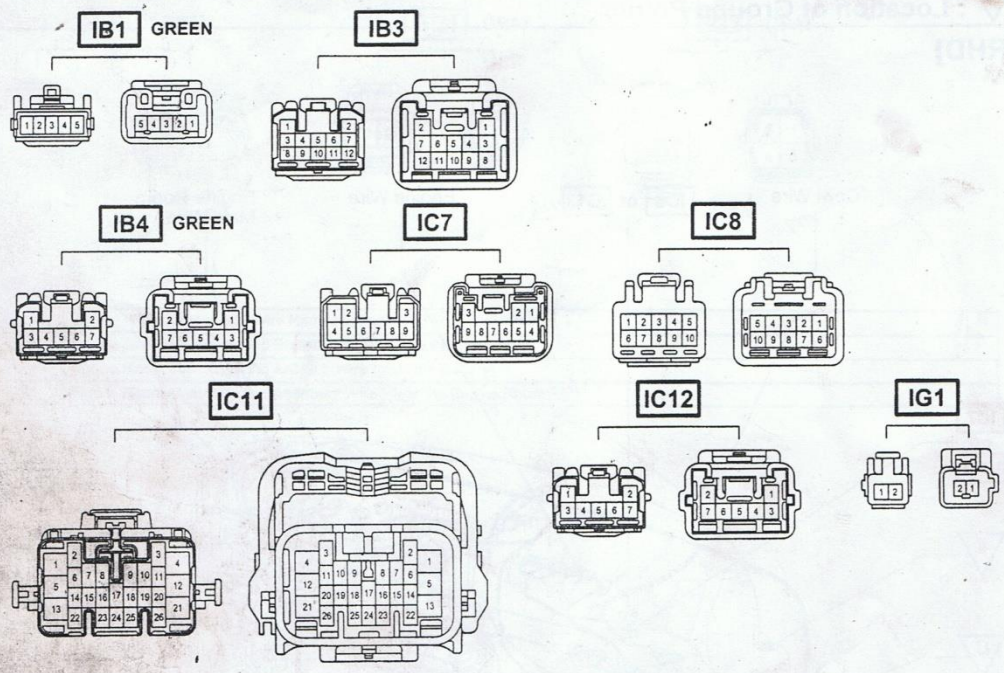


LU-B	+B1	LU+B
LU-A	+B2	LU+A

ปลั๊ก IC11 (หลังกล่องเก็บของ – D4D)

ELECTRICAL WIRING ROUTING

Connector Joining Wire Harness and Wire Harness



Code	Joining Wire Harness and Wire Harness (Connector Location)
IB1	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IB3	
IB4	
IC7	Engine Wire and Cowl Wire (Behind the Glove Box)
IC8	
IC11	
IC12	
IG1	Cowl Wire and Cowl No.3 Wire (Behind the Ashtray)

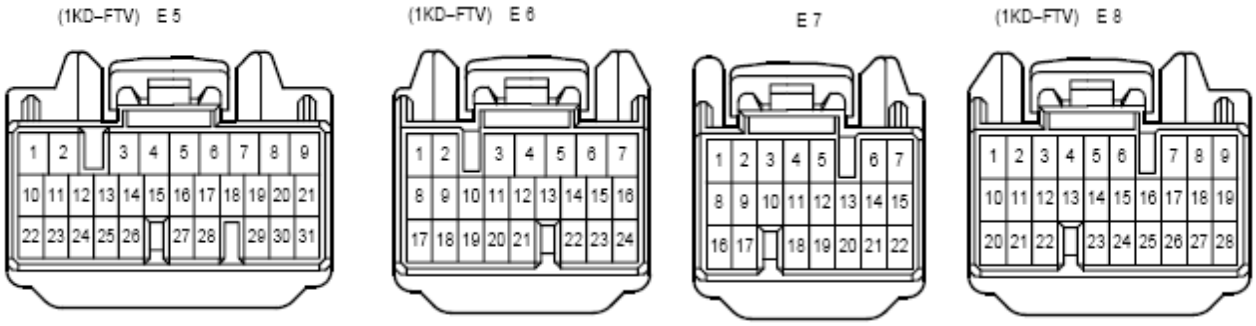
TOYOTA 2KD-FTV D4D

+ B - R/L
BATT - R/B
MREL - L/O
IG - B/W
AC1 - Y
ACT - LG/R
SREL - B/R
G-IND - R/W
W - P
IG- - B
STP - G/W
STA - V/Y
NSW
SP1 - G/O

ปลั๊ก IC11

1 - IG SPD (L/Y)
2 - SPD- (W)
3
4 - Alternator , DF (R)
5 - Start Relay (B/W)
6 - SPD+ (Y)
7
8 - Temp (Y/R)
9
10
11
12
13 - IG (R/L)
14 - Transfer 4L Position Sw. (L/R)
15 - + B (B)
16
17 - IG Neutral Sw. (R/L)
18
19
20 - Transfer Sw. 4x4 (R/B)
21 - E1 (W/B)
22
23 - Oil (L/Y) , (L/O)
24 - A/C Magnetic Clutch Lock Sen. (Y)
25 - A/C Magnetic Clutch Lock Sen. (GR)
26 - A/C Magnetic Clutch (B/Y)

1KD-FTV (M/T) , Land Cruiser



E 5 (A) **E 6 (B)** **E 7 (C)** **E 8 (D)**

หน้าปลั๊ก

E 5 (A)	E 6 (B)
1 - EGRC (R/W) , -	1 - DF (Y/B)
2 - EGR (G/B) , -	2 - L4 (LG)
3 - VN-B (Y)	3
4 - VN+B (Y/G)	4
5 - VN-A (Y/R)	5
6 - VN+A (Y/B)	6 - VTB (Y)
7 - COM (Y)	7
8 - PCV2 (B/R)	8
9 - PCV1 (B/Y)	9
10	10
11 - THOP (L)	11 - EVG (B)
12 - # 4 (W/G)	12
13 - # 3 (L/Y)	13 - THAF (Y/B)
14 - # 2 (W/R)	14 - THW (G)
15 - # 1 (W/L)	15 - THO (Y)
16 - G+ (B)	16 - PIM (B/Y)
17 - NE+ (B)	17 - PA (R/B) , -
18 - INJF (W)	18
19 - LU+B (G)	19 - VG (B)
20 - LU+A (W)	20 - E2 (BR)
21 - E01 (W/B)	21 - VC (B)
22 - E1 (BR)	22 - THA (L/Y)
23 - INJ4 (R/G)	23 - PCR (G/R)
24 - INJ3 (L/W)	24 - THF (W)
25 - INJ2 (L/R)	
26 - INJ1 (L/B)	
27 - G- (W)	
28 - NE- (W)	
29 - LU-B (Y)	
30 - LU-A (R)	
31 - E02 (W/B)	

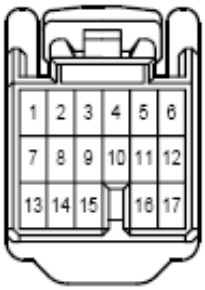
E 7 (C)	E 8 (D)
1 - + B (B/R)	1 - ENG- (V)
2 - BATT (B/Y)	2 - ENG+ (P)
3 - GIND (B/R)	3 - TRC- (Y)
4	4 - TRC+ (L)
5 - CCS (B)	5 - ACT (L/B)
6	6 - A/C (B/Y)
7 - MREL (L/B) , +	7
8 - REL (R/W) , -	8 - VCC (G/Y)
9 - IG (B/O)	9 - E0M (W/B)
10	10 - TACH (B)
11 - D (G/O)	11 - NEO (Y/G)
12 - W (Y/R)	12
13	13 - VCC2 (Y/B)
14 - IMI (P/G)	14 - STP (G/W)
15 - STA (R)	15 - VCT (Y)
16 - SREL (G/R) , +	16 - PI (B/Y)
17	17 - SNWO (Y/G)
18 - TC (P/L)	18 - VCH (G)
19 - SIL (V/W)	19 - VA (Y/R)
20	20
21 - IMO (BR/R)	21
22 - NSW (B/W)	22 - SPD (V/W)
	23 - ST1- (R/G)
	24 - E2C2 (BR)
	25 - HSW (W)
	26
	27 - E2C (BR/W)
	28 - VAS (GR)

PCR - Fuel Pressure Sensor
EGLS - EGR Valve Position Sensor
EVG - Air Flow Sensor
VG - Air Flow Sensor
THAF - Atmospheric Pressure Sensor (Air Flow Sensor)
THF - Fuel Temperature Sensor
THO - A/T Fluid Temperature Sensor
PA - VSV Pressure Charge Valve (For Turbo Preesue Sensor)
EGR - VSV For EGR
LU+A - Throttle Control Motor
LU+B - Throttle Control Motor
LU-A - Throttle Control Motor
LU-B - Throttle Control Motor
STI- - Stop Sw. ,
DF - Alternator
PCV+ - Suction Control Valve
PCV- - Suction Control Valve
PRV - Pressure Discharge Valve
COM - Pressure Discharge Valve
VCP1 - Accelerator Pedal Position Sensor
VPA1 - Accelerator Pedal Position Sensor
EP1 - Accelerator Pedal Position Sensor
VCP2 - Accelerator Pedal Position Sensor
VPA2 - Accelerator Pedal Position Sensor
EP2 - Accelerator Pedal Position Sensor
WFSE - DLC3
SIL - DLC3
TAC - IG

1KD-FTV A/T

E4	E5	E14	E6	E7

E14

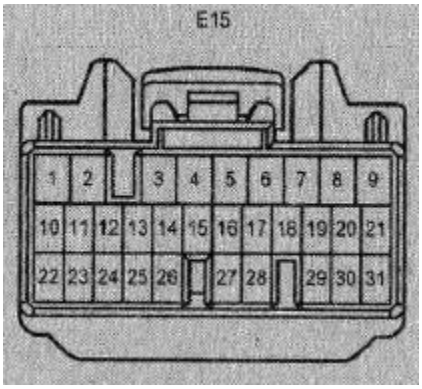


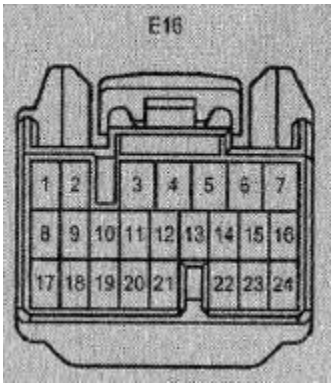
E 14 หน้าปลั๊ก

SL	S2	S1	R	2	L
SLT-	SLT+	TFN	L4		
SP2-	SP2+	OD2		PWR	SNW1

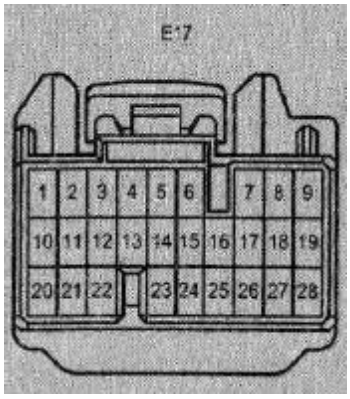
2KD-FTV (89661-04720) Hi Ace Regius , A/T 5 เส้น
เครื่องนอก , หัวฉีด 4 เส้น

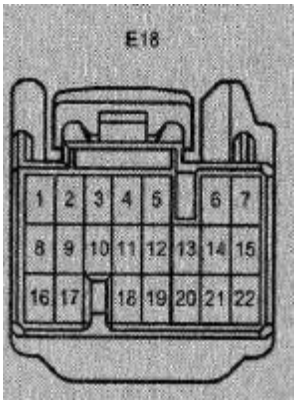






E 15 (A)	E 16 (B)
1 - EGRC (R/W) , -	1 - DF (W)
2 - EGR (B/L) , -	2 - L4 (LG)
3 - VN-B (Y)	3
4 - VN+B (Y/G)	4
5 - VN-A (Y/R)	5
6 - VN+A (Y/B)	6 - VTB (Y)
7 - COM (P)	7
8 - PCV- (Y)	8
9 - PCV+ (P)	9
10	10
11 - THOP (V)	11 - EVG (R)
12 - # 4 (B/Y)	12
13 - # 3 (Y/B)	13 - THAF (G)
14 - # 2 (G/Y)	14 - THW (R/W)
15 - # 1 (R/G)	15 - THO (Y)
16 - G+ (R)	16 - PIM (P)
17 - NE+ (B)	17 - PA (B) , -
18 - INJF (Y)	18
19 - LU+B (R)	19 - VG (W)
20 - LU+A (B)	20 - E2 (Y)
21 - E01 (BR)	21 - VC (L/B)
22 - E1 (BR)	22 - THA (R/L)
23 - RINJ4 (B/W)	23 - PCR (P)
24 - RINJ3 (B/L)	24 - THF (R/G)
25 - RINJ2 (B/R)	
26 - RINJ1 (GR)	
27 - G- (G)	
28 - NE- (W)	
29 - LU-B (G)	
30 - LU-A (W)	
31 - E02 (BR)	





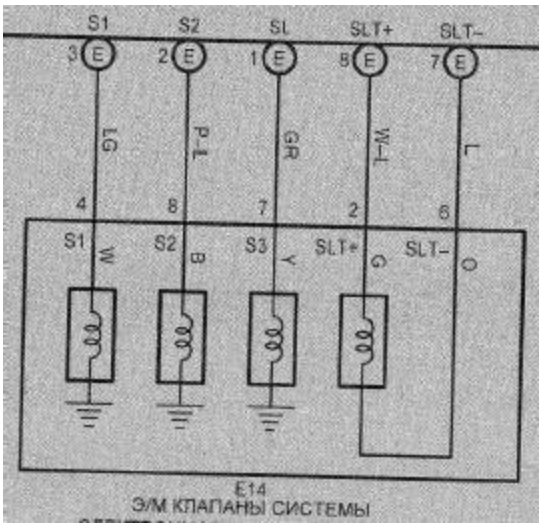
E 17 (C)	E 18 (D)
1 - + B (B/Y) 2 - BATT (Y/G) 3 - GIND (V) 4 - WFSE (G/W) 5 - CCS (B) 6 - OILM (L) 7 - MREL (R) , + 8 - EDU Rel. (G/Y) , - 9 - IG (B/O) 10 - O/D (GR/L) 11 - 12 - W (W/L) 13 - 14 - IMI (B/R) 15 - STA (B/W) 16 - SREL (G/R) , + 17 - EC (W/B) 18 - TC (P/B) 19 - SIL (W/G) 20 21 - IMO (BR/R) 22 - NSW (B/W)	1 - ENG- (V) 2 - ENG+ (P) 3 - TRC- (Y) 4 - TRC+ (L) 5 - ACT (L/B) 6 - A/C (B/Y) 7 8 - VCP1 (L/O) 9 - E0M (W/B) 10 - TACH (L) 11 - 12 13 - VCP2 (B/W) 14 - STP (G/W) 15 - VCT (Y) 16 - PI (B/Y) 17 - 18 - VCH (G) 19 - VPA1 (BR/W) 20 21 22 - SPD (V/W) 23 - ST1- (W/R) 24 - EP2 (LG/B) 25 - HSW (LG) 26 27 - EP1 (G/O) 28 - VPA2 (GR/L) 23 - PCR (G/R) 24 - THF (W)



E 19 (E)

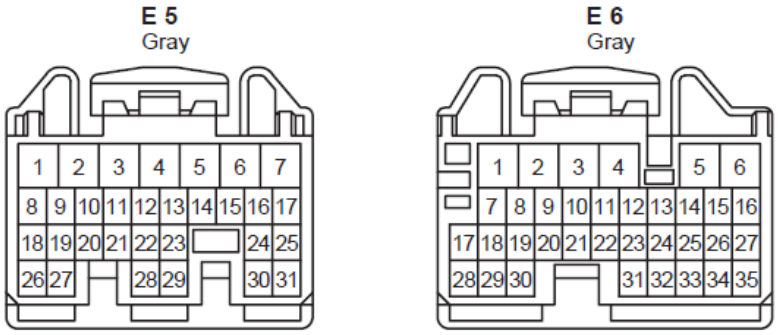
1 - SL (GR)
2 - S2 (P/L)
3 - S1 (LG)
4 - R (B/R)
5 - 2 (Y)
6 - L (L)
7 - SLT- (L)
8 - SLT+ (W/L)
9 -
10
11 -
12 -
13
14 - SP2 (W) , Reed Sw.
15 -
16 -
17

A/T Solenoid



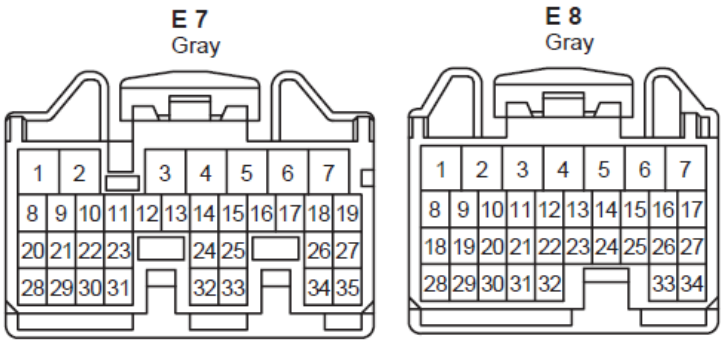
1KD-FTV , VIGO 3.0 (KUN 15) -VN Turbo
กล่องเกียร์แยก

E 5(A), E 6(B), E 7(C), E 8(D)
Engine ECU



หน้าปลั๊ก

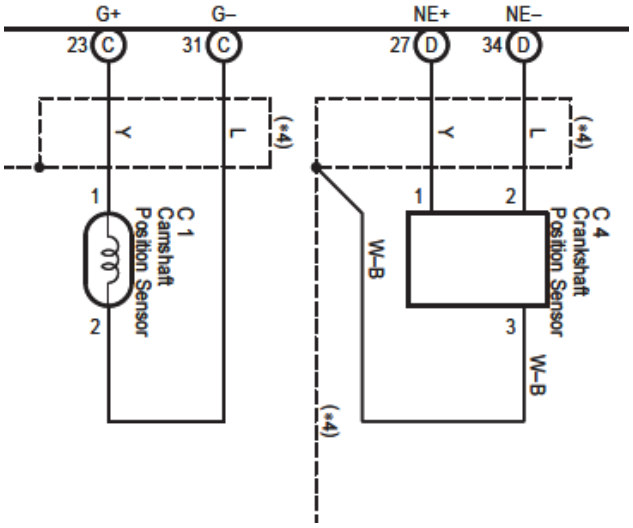
E 5 (A) - J	E 6 (B) - K
1 - + B (B)	1
2 - THWO (P)	2 - BATT (L)
3	3
4 - TACH (B/W)	4
5	5
6 - NSW (LY)	6
7 - STA (B/Y)	7
8 - MREL (W/G) , +	8
9 - IGSW (B/O)	9
10 - IREL (B/W) , -	10
11 - TC (P/B)	11
12 - W (R/B)	12
13	13
14 - GIND (Y/R)	14 - ST1 - (R/L)
15 - GREL (R) , +	15 - STP (G/W)
16 - E0M (W/B)	16
17	17 - SPD (V/R)
18 - SIL (R/Y)	18 - AC1 (Y)
19 - WFSE (W)	19 - ACT (R/L)
20	20
21	21 - CAN- (P)
22 - VPA (W/L)	22 - CAN+ (V)
23 - VPA2 (GR/G)	23
24	24
25	25
26 - VCPA (LG/R)	26
27 - VCP2 (BR/R)	27
28 - EPA (BR/W)	28
29 - EPA2 (BR/Y)	29 - IMO (Y/B)
30	30 - IMI (Y/G)
31	31
	32
	33
	34
	35



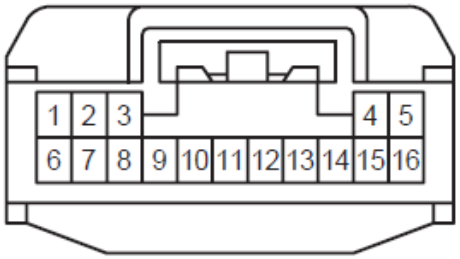
หน้าปลั๊ก

E 7 (C) - L	E 8 (D) - M
1	1 - PCV - (G/Y) , SCV
2	2 - PCV + (G/W) , SCV
3	3
4 - LUSL (GR)	4
5	5
6	6 - E02 (W)
7 - E1 (BR)	7 - E01 (W/B)
8	8 - ALT (G)
9 - EGR Sol. (L/R) , - ปลั๊กสีดำ	9
10	10 - VNTO (B/O)
11	11
12	12
13	13
14	14
15	15 - SCV (LG) , - Swirl Control Valve
16	16
17	17 - VNT1 (R/B)
18 - EGRC Sol. (Y/B) , - ปลั๊กสีน้ำตาล	18 - VC (R/W)
19	19 - THW (R/L)
20	20 - THIA (Y/G)
21	21 - # 40 (Y/R)
22	22 - # 30 (V)
23 - G + (Y)	23 - # 20 (R)
24 - VG (W/R)	24 - # 10 (B/W)
25	25 - INJF (P)
26	26 - PCR1 (R/Y) , Rail Pressure Sen.
27	27 - NE + (Y)
28 - PIM (L/B) , Turbo Sen.	28 - E2 (BR)
29 - VLU (B)	29 - THF (G/B)
30	30
31 - G - (L)	31 - THA (Y/G)
32 - EVG (B/W)	32
33 - EGLS (L/Y)	33
34	34 - NE - (L)
35	

Crank – Cam Sensor



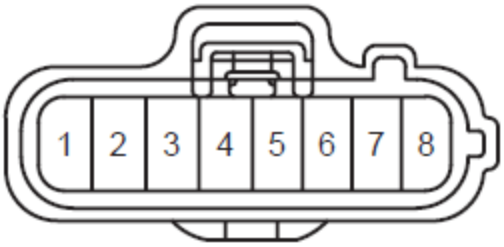
IMO ECU (อยู่หลังตู้แอร์)



1 - BATT (L/Y)	9 - DLC3 (B)
2 - IG (B/O)	10
3 - KSW (BR)	11 - EOM (W/B)
4 - TXCT (L/B)	12 - EFII (Y/B)
5 - AGND (L/O)	13 - EFIO (Y/G)
6	14 - VC5 (L)
7 - CTY (R/B)	15 - CODE (L/Y)
8 - IND (G/R)	16 - GND (G)

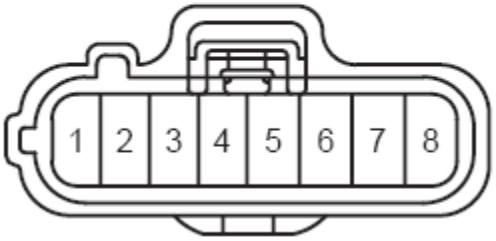
Injector Driver (EDU) รุ่น 2 ปลั๊ก

I 1
Black



#INJ3	**#INJ2**	**#INJ4**	**#INJ1**	**COM1**	**COM2**	*	**BATT**

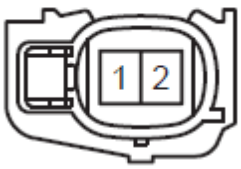
I 2
Dark Gray



GND	**IJT#3**	**IJT#2**	*	**IJT#4**	**IJT#1**	**IJF**	*

Injector แบบ 2 เส้น

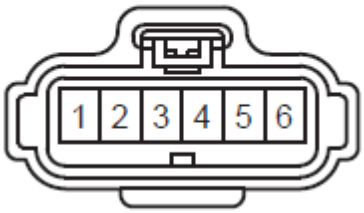
Gray



COM	**INJ1**

Accelerator Position Sensor

A13
Black



VCP2 (BR/R)	EPA2 (BR/Y)	VPA2 (GR/G)	VCPA (LG/R)	EPA (BR/W)	VPA (W/L)

Throttle Body Assembly

T 2
Black



T 3
Black



LUSL (GR)	+B (B)	E1 (W/B)		VC (R/W)	E2 (BR)	VLU (B)

Alternator

A 8
Black



S (W)	IG (R/L)
M (G)	L (GR)

Air Flow Sensor

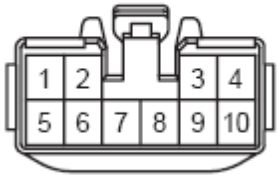
A 4
Black



+B (B)	EVG (B/W)	VG (W/R)	THA (Y/B)	E2 (BR)

VN Turbo ECU

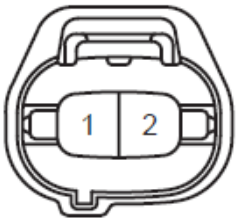
T 8
Gray



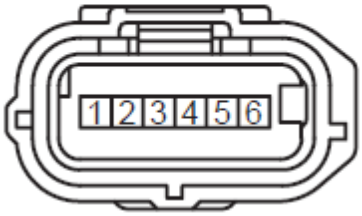
VNVC	VNE2			M-	VNT1
VTA1	GND		+B	VNTO	M+

VN Turbo

T10
Black



T11
Black



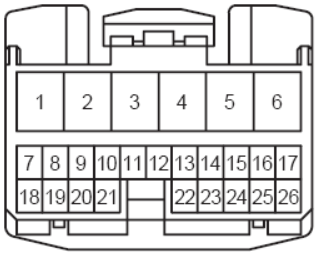
M- (W)	M+ (B)		VTA1 (R)	VNE2 (L)	VNVC (W)	*	*	*

1KD-FTV 3.0 - Diagnosis Specific

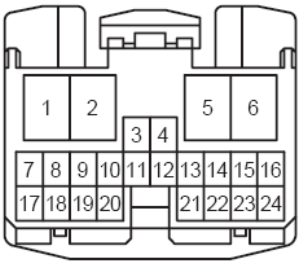
Item	Inspection Condition	Reference Value
INJECTION VOLUME	Engine at idling*	3 – 10 mm^3/st
	Engine racing at 2,000 rpm*	5 – 12 mm^3/st
	Engine racing at 3,000 rpm*	7 – 14 mm^3/st
INJECTION TIMING	Engine at idling*	–7°CA
	Engine racing at 2,000 rpm*	–7 – –4°CA
	Engine racing at 3,000 rpm*	2 – 5°CA
ENGINE SPD	RPM kept stable (Comparison with tachometer)	No great changes
PIM	Engine at idling*	90 – 100 kPa
	Engine racing at 2,000 rpm*	95 – 115 kPa
	Engine racing at 3,000 rpm*	100 – 120 kPa
ACCELE POSITION	Accelerator pedal fully closed	0 – 20 %
	Accelerator pedal fully opened	80 – 100 %
IDL SIG	Accelerator pedal full closed	650 – 750 rpm
STARTER SIG	During cranking	ON
A/C CUT SIG	A/C switch OFF	ON
EGR SYSTEM	Idling	ON
ACCEL CLOSE SW	Accelerator pedal fully closed	ON
AFM	Air Flow Rate Through Air Flow Meter at idling	5 – 10 g/sec
COMN RAIL PRESS	Engine at idling*	30 – 40 Mpa
M – INJ/PILOT ON	Engine at idling*	700 – 900 µs
M – INJ/PILOT OFF	Engine at idling*	0 µs
PILOT – INJ	Engine at idling*	500 – 600 µs
PUMP VCM ANGLE	Engine at idling*	70 – 90°CA

4 A/T ECU , VIGO 1KD-FTV 3.0 (89530-71520)

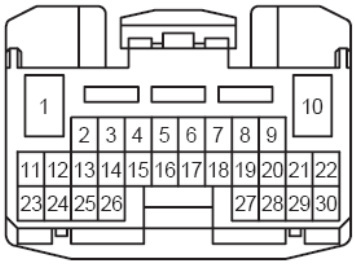
T17



T18



T19



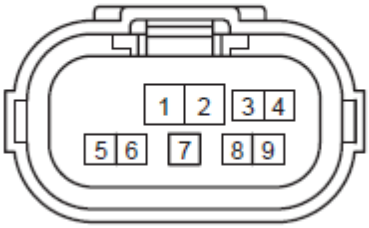
T 17 (A)	T 18 (B)
1	1
2	2
3	3
4	4
5 - BATT (L)	5
6 - IG (B/O)	6
7	7
8 - OILW (P)	8 - D (G/Y) , +
9	9 - R (R/Y) , +
10 - L (G/R)	10
11 - 2 (L)	11
12 - 3 (G/O)	12
13	13
14 - STP (G/W)	14
15	15 - L4 (G/W) transfer indicator sw. L4
16	16 - TFN (W/G) transfer indicator sw. Neutral
17	17
18	18
19	19
20 - CAN- (P)	20
21 - CAN+ (V)	21
22	22
23	23 - SIL (R/Y)
24	24 - WFSE (W)
25 - SP1 (V/R)	
26	

T 19 (C)

1 - E1 (BR)	16 - SL (G)
2 - NCO- (P)	17 - S2 (W/L)
3 - NCO+ (V)	18 - S1 (GR)
4	19 - SLT- (L/B)
5	20 - SLT+ (G/Y)
6	21
7	22
8	23 - E2 (B/Y)
9	24 - THOC (BR) A/T fluid temp sen.
10 - E01 (W/B)	25
11 - STA (B/Y)	26
12 - NSW (L/Y)	27
13	28
14	29 - SP2- (G)
15	30 - SP2+ (R)

Inhibitor Sw.

N 1
Gray



1 - R (Y)	6 - P (G/B)
2 - IG (R/L)	7 - D (G/Y)
3 - 2 (L)	8 - L (G/R)
4 - NSW (L/Y)	9 - N (R/W)
5 - STA (B/Y)	

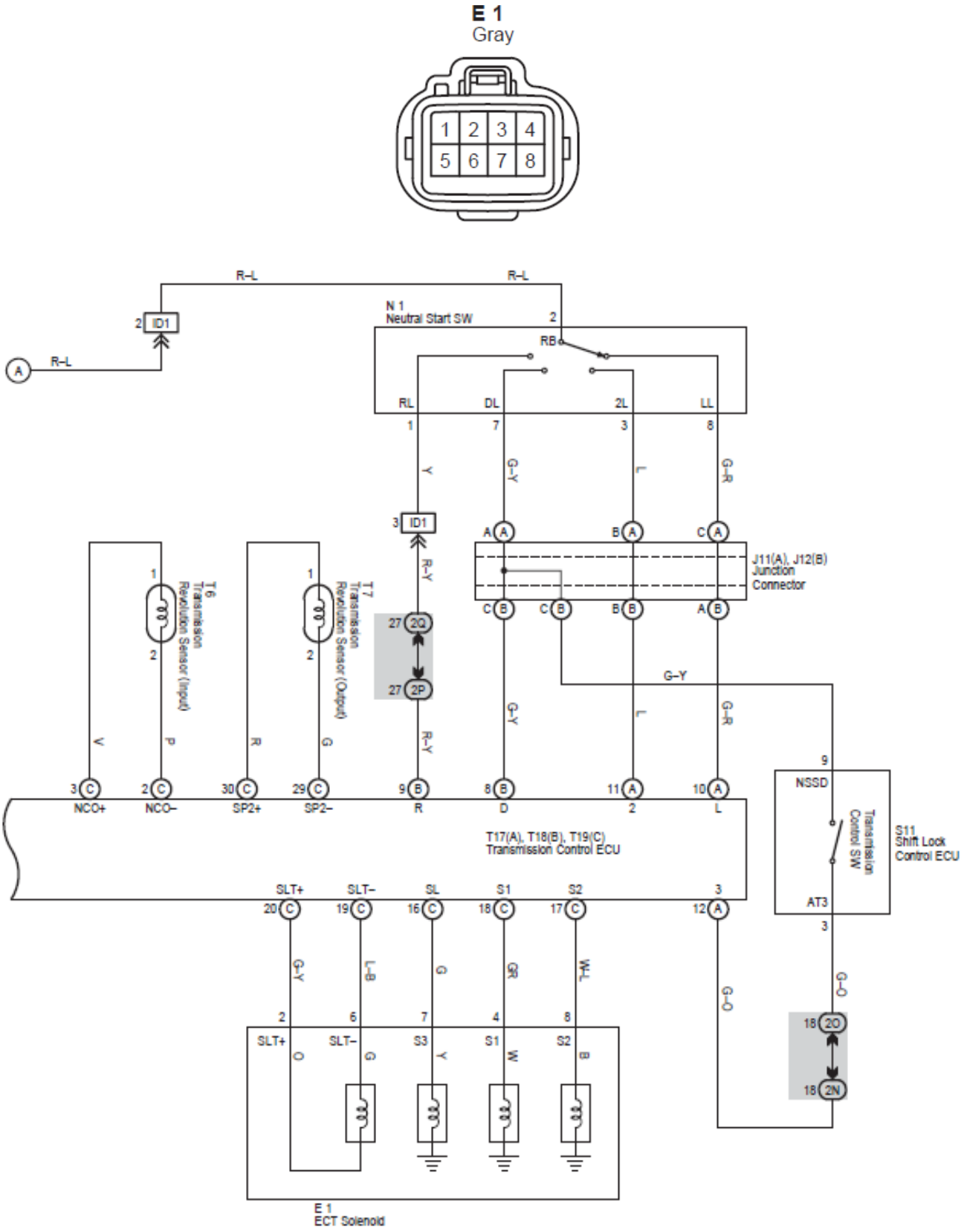
Shift Lock ECU

S11



1 - IG (B)	7 - STP (G/Y)
2 - D (R/B) , combination meter	8 - E1 (Y)
3 - 3 (G/O) , ECU	9 - D (G/Y) , A/T Position Sw.
4	10
5	11
6 - ACC (GR)	12 - KLS+ , Key Interlock Sol.

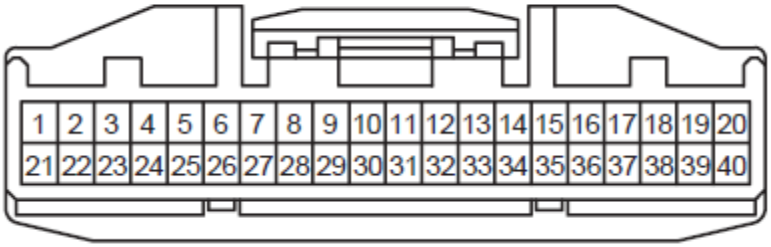
A/T Solenoid 4 Speed



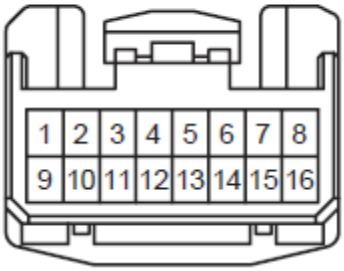
ประเทศที่จำหน่าย	ชนิดการขับ	เครื่องยนต์	เฟืองท้ายหน้า	เฟืองท้ายหลัง	
			ชนิด	ชนิด	อัตราทดเกียร์
ไทย	2WD	2KD-FTV เวอร์ชันสูง	—	B200	3.583
		2KD-FTV	—	B200	4.100
	2WD พรีรันเนอร์	2TR-FE	—	B200	4.555
	4WD	1KD-FTV	S20SNF แบบมีชิพแอ็คชิวเอเตอร์ A.D.D.	B200 แบบมี LSD	3.909
		2KD-FTV เวอร์ชันสูง	S20SNF แบบมีชิพแอ็คชิวเอเตอร์ A.D.D.	B200 แบบมี LSD	3.909
		2TR-FE	S20SNF แบบมีชิพแอ็คชิวเอเตอร์ A.D.D.	B200 แบบมี LSD	4.555

Vigo , Fortuner - Combination Meter

C10



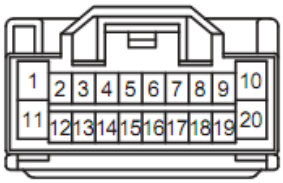
C11



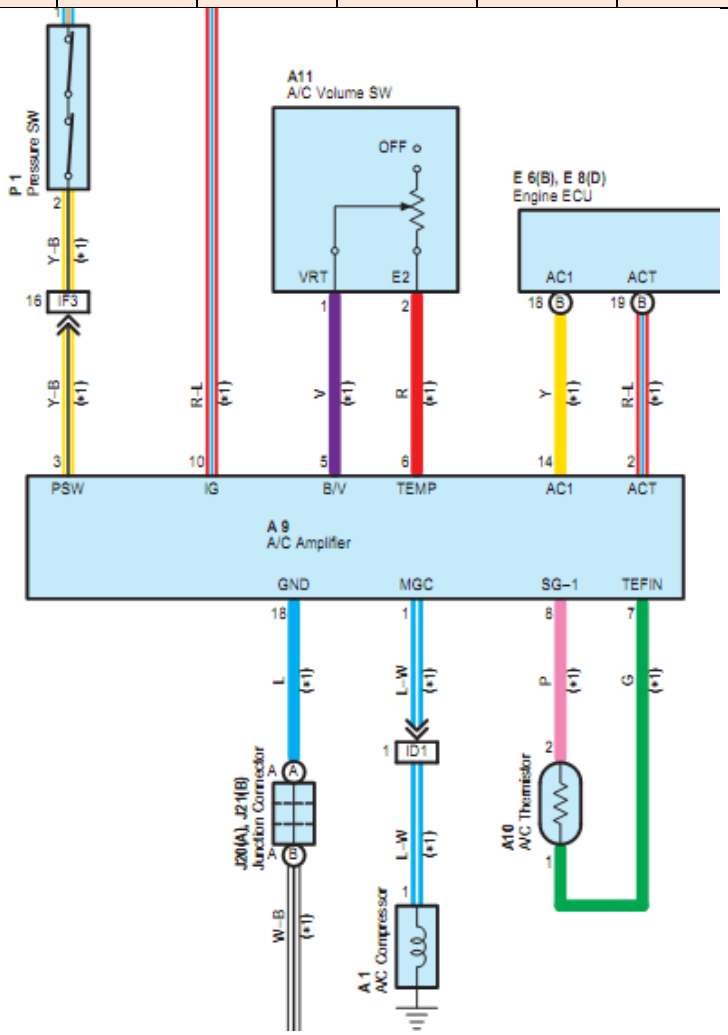
C 10 (A)	C 11 (B)
1 - BATT (R)	1
2 - E2 , Fuel (BR)	2 - L (G/R)
3 - Fuel (BR/Y)	3 - 2 (L)
4 - THWO (P)	4 - 3 (G/O)
5 - SPD (P/L)	5 - D (B/R)
6 - SP1 (V/R)	6 - N (R/W)
7 - IG- (B/W)	7
8 - Tail + (G)	8
9	9
10 - Unlock Warning Sw. (G/Y)	10 - Fuel Injector No.1 (L)
11 - Belt (R/Y)	11 - IG (B/R)
12 - Neutral Start Sw. , P (G/B)	12 - Accessory meter (P/G)
13 - A/T P (W/G)	13 - Accessory meter (L/B)
14 - Fuel Filter Sw. (W/G)	14 - R (R/Y)
15 - Door (R/B)	15
16 - Door (R/B)	16
17 - Door (R/L)	
18 - A/T Oil Temp. (P)	
19 - E1 (W/B)	
20 - SRS (B/Y)	
21 - IG (B/O)	
22 - E1 (W/B)	
23 - W Fuel (L/R)	
24 - Turn L (G/B)	
25 - Turn R (G/Y)	
26	
27 - HI Beam (R/Y)	
28	
29	
30 - Front Fog (G/B)	
31 - 4WD (R/B)	
32	
33	
34	
35 - Oil Sw. (LG/B)	
36 - Brake (LG)	
37 - L Charge (GR)	
38 - ABS (R/G)	
39 - Check Engine (R/B)	
40 - Glow (Y/R)	

VIGO Manual A/C ECU

A 9

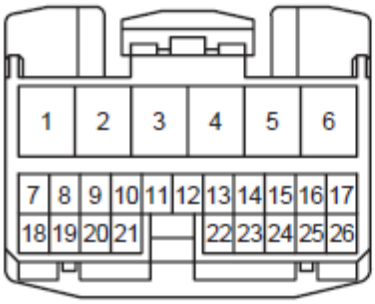


A/C COM (L/W)	ACT (R/L)	Pressure Sw. (Y/B)		R Thermo stat (V)	Thermo stat (R)	A/C Thermis tor (G)	A/C Thermis tor (P)		IG (R/L)
			AC1 (Y)				E1 (L)		

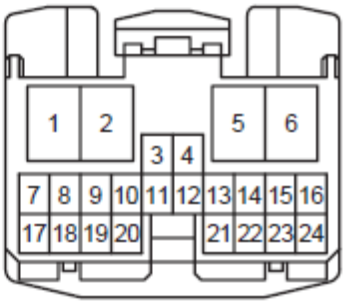


VIGO Auto A/C ECU

A15



A16



A 15 (A)

1 - A/C Thermistor (G)
2 - A/C Solar Sen. (W/R)
3
4
5 - Pressure Sw. , - (Y/B)
6
7 - A/C Solar Sen. (L/W)
8
9
10
11 - Damper Servo Motor (L/Y)
12
13 - A/C Room Temp. Sen. , E2 (BR/Y)
14 - A/C Thermistor , E2 (P)
15
16 - Damper Servo Motor , Air Inlet (R/L)
17 - Damper Servo Motor , Air Inlet (P/B)
18 - A/C Room Temp. Sen. (GR)
19
20
21 - Damper Servo Motor , Air Inlet (LG/R)
22
23
24
25 - Damper Servo Motor (LG)
26 - Damper Servo Motor (L/O)

A 16 (B)

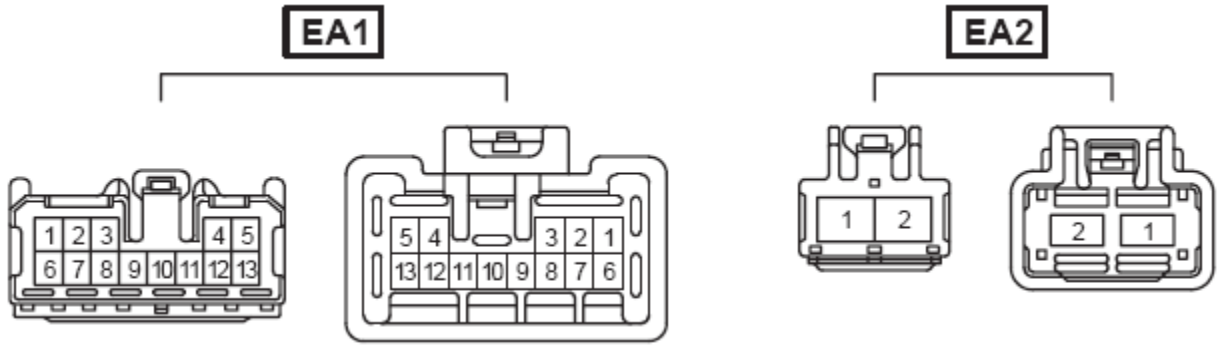
1 - E1 (W/B)
2 - Blower Motor Control (L/B)
3 - Damper Servo Motor (Y/B)
4 - Damper Servo Motor (R/B)
5 - +B (L/Y)
6 - IG (R/L)
7 - ACT (R/L)
8
9 - SPD (V/W)
10
11
12 - DEF Relay (R/L)
13 - A/C Clutch Relay (B)
14 - Heater Relay (L/W)
15
16
17
18 - Combination meter (P)
19
20
21 - AC1 (Y)
22 - Damper Servo Motor , Air Inlet (L/W)
23 - Damper Servo Motor , Air Inlet (G/Y)
24
25
26

ขั้วที่สำคัญของ VIGO

ST	-	L
STA	-	B/Y
NSW	-	L/Y
L chg	-	GR
S chg	-	W
IG chg	-	R/L
M chg	-	G
Glow	-	B/R
Glow Rel	-	R
A/C	-	L/W
ELS	-	G
R	-	Y , R/W
+B , SPD	-	R/B
SPD +	-	P/L
SPD -	-	BR

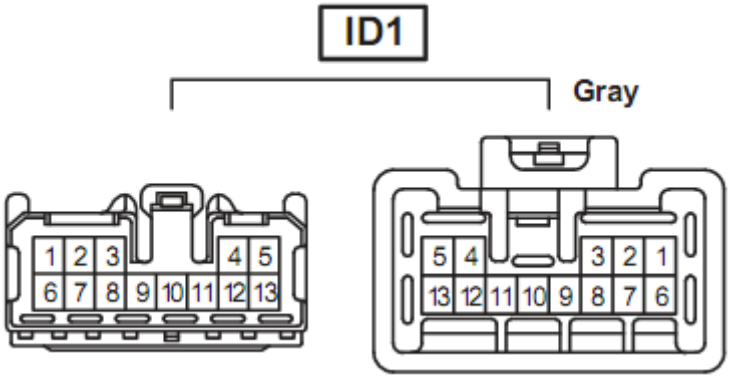
+ B	-	B
M-Rel	-	W/G
BATT	-	L
G-Rel	-	R
STP	-	G/W
IG	-	B/O
TACH	-	B/W
SPD	-	V/R
W	-	R/B
THWO	-	P
AC1	-	Y
ACT	-	R/L

VIGOปลั๊กข้าง FUSE BOX

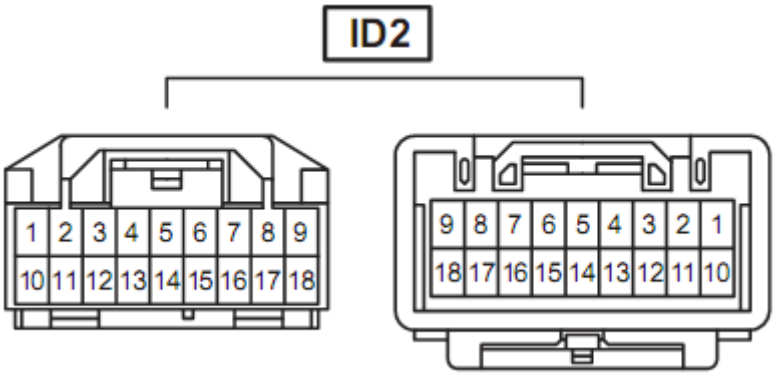


EA1	EA2
1 - E1 (BR) 2 - + B (B) , EDU 3 - E1 , Shield 4 - STA (B/Y) 5 - 4WD ECU (R/B) 6 - Transfer Sw. (G/W) 7 - 8 - 9 - 10 - 11 - 12 - + B (B) , ECU 13 - S (W)	1 - Glow (B/R) 2 - ST (L)

VIGOปลั๊กด้านในห้องโดยสาร



ID1
1 - A/C Compressor (L/W) มาจาก A/C Amplifier 2 - IG , R (R/L) 3 - R (Y) 4 - 5 - 6 -
7 - 8 - 9 - 10 - 11 - 12 - IG (B/Y) 13 -

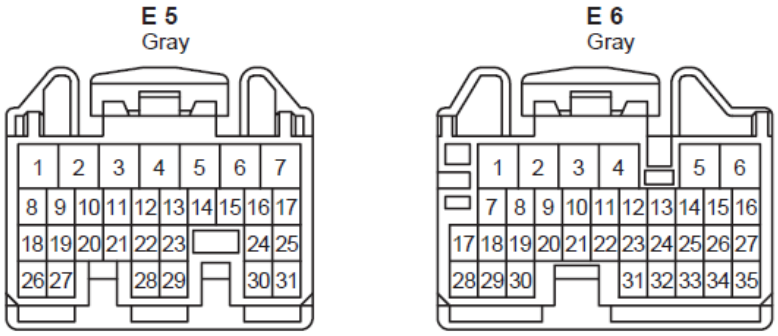


ID2

1 - NSW (L/Y)
2 -
3 - IG Chg (R/L)
4 - L Chg (GR)
5 - Neutral Start Sw. (G/B)
6 -
7 -
8 - Transfer Indicator Sw. (W/G)
9 -
10 - Oil (LG/B)
11 -
12 -
13 -
14 -
15 - +B , SPD (R/B)
16 - SPD + (P/L)
17 -
18 - E1 , DLC3 (BR)

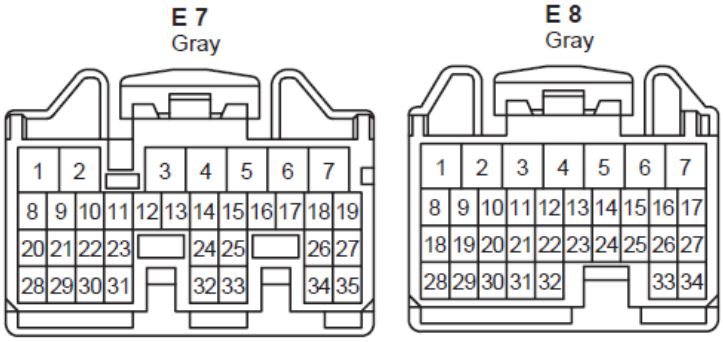
1KD-FTV , 2KD-FTV – Vigo Champ กล่องเกียร์แยก

C22(A), C23(B), G38(C), G39(D)
ECM



หน้าปลั๊ก

D	C
1 - + B (B)	1
2 - THWO (P)	2 - BATT (L)
3 - Combination Meter (G/B)	3
4 - TACH (B/W)	4
5	5
6 - NSW (L/Y)	6
7 - STA (B/Y)	7
8 - Main Rel. (W/G) , +	8
9 - IGSW (B/O)	9
10 - EDU Rel. (B/W) , -	10 - Clutch Sw. (G/W) , + M/T
11 - TC (P/B)	11
12 - W (R/B)	12
13	13
14 - GIND (Y/R)	14 - ST1 - (R/L)
15 - Glow Rel. (R) , +	15 - STP (G/W)
16 - E0M (W/B)	16
17	17 - SPD (V/R)
18 - SIL (R/Y)	18 - AC1 (Y)
19 - WFSE (W)	19 - ACT (R/L)
20	20
21	21 - CAN- (P)
22 - Pedal Sen. , VPA (W/L)	22 - CAN+ (V)
23 - Pedal Sen. , VPA2 (GR/G)	23
24	24
25	25
26 - Pedal Sen. , VCPA (LG/R)	26
27 - Pedal Sen. , VCP2 (BR/R)	27
28 - Pedal Sen. , EPA (BR/W)	28
29 - Pedal Sen. , EPA2 (BR/Y)	29 - IMO (Y/B)
30	30 - IMI (Y/G)
31	31
	32
	33
	34
	35



หน้าปลั๊ก

B	A
1 - Fuel Pressure Regulator , E2S (R/L)	1 - PCV - (G/Y)
2 - Fuel Pressure Regulator , VCS (L/W)	2 - PCV + (G/W)
3	3
4 - Throttle Body , LUSL (GR)	4
5	5
6	6 - E02 (W)
7 - E1 (BR)	7 - E01 (W/B)
8	8 - ALT (G)
9 - EGR Sol. (L/R) , -	9
10	10 - VNTO (B/O)
11	11
12	12
13	13
14	14
15	15 - SCV (LG) , -
16	16
17	17 - VNT1 (R/B)
18 - EGRC Sol. (Y/B) , -	18 - VC (R/W)
19	19 - THW (R/L)
20	20 - THIA (Y/G)
21	21 - # 40 (Y/R)
22	22 - # 30 (V)
23 - G + (Y)	23 - # 20 (R)
24 - Air Flow Sen. , VG (W/R)	24 - # 10 (B/W)
25	25 - INJF (P)
26	26 - Fuel Pressure Regulator , PCR1 (R/Y)
27	27 - NE + (Y)
28 - PIM (L/B)	28 - E2 (BR)
29 - Throttle Body , VLU (B)	29 - THF (G/B)
30	30
31 - G - (L)	31 - Air Flow Sen. , THA (Y/G)
32 - Air Flow Sen. , EVG (B/W)	32 - Injector Driver , PRD (GR)
33 - EGR Sen. , EGLS (L/Y)	33 - Fuel Pressure Regulator , PCR2 (G/R)
34	34 - NE - (L)
35	

Injector Driver (EDU) 3 ปลั๊ก



C43 - A (Dark GR)

#10 (B)	+B (B)	E1 (W/B)	Pressure Discharge Valve (BR)	#30 (Y)	#20 (L)

C44 - B (GR)

Pressure Discharge Valve (Y)	#30 (L)	#40 (R)	#20 (P)	#40 (G)	#10 (W)

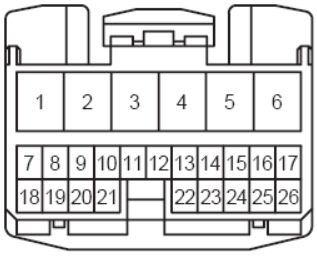
C45 - C (B)

-	PRD (GR)	#40 ECU (Y/R)	#10 ECU (B/W)	INJF (P)	-	#30 ECU (V)	#20 ECU (R)

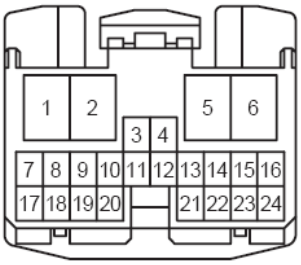
4 A/T ECU , Vigo Champ

C24(A), G40(B), G41(C)
Transmission Control ECU Assembly

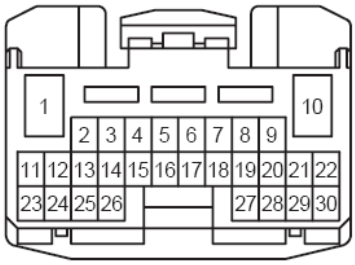
T17



T18



T19

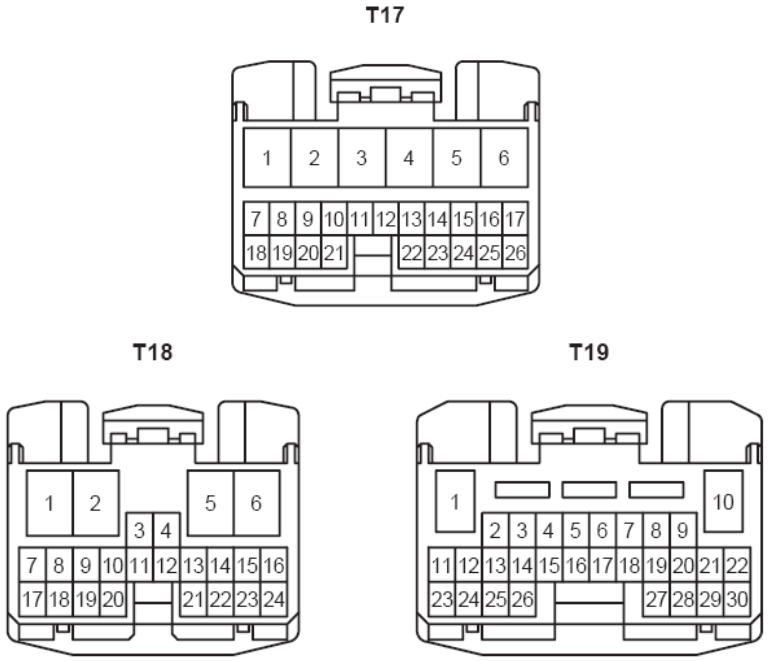


C	B
1	1
2	2
3	3
4	4
5 - BATT (L)	5
6 - IG (B/O)	6
7	7
8 - OILW (P)	8 - D (G/Y) , +
9	9 - R (R/Y) , +
10	10 - L (G/R)
11	11 - 2 (L)
12	12 - 3 (G/O)
13	13
14 - STP (G/W)	14
15	15 - L4 (G/W) transfer indicator sw. L4 , -
16	16 - TFN (W/G) transfer indicator sw. Neutral
17	17
18	18
19	19
20 - CAN- (P)	20
21 - CAN+ (V)	21
22	22
23	23 - SIL (R/Y)
24	24 - WFSE (W)
25 - SP1 (V/R)	
26	

A	
1 - E1 (BR)	16 - SL (G)
2 - NCO- (P)	17 - S2 (W/L)
3 - NCO+ (V)	18 - S1 (GR)
4	19 - SLT- (L/B)
5	20 - SLT+ (G/Y)
6	21
7	22
8	23 - E2 (B/Y)
9	24 - THOC (BR) A/T fluid temp sen.
10 - E01 (W/B)	25
11 - STA (B/Y)	26
12 - NSW (L/Y)	27
13	28
14	29 - SP2- (G)
15	30 - SP2+ (R)

4 A/T ECU - FORTUNER 1KD-FTV 3.0 (KUN51)

T17(A), T18(B), T19(C)
Transmission Control ECU

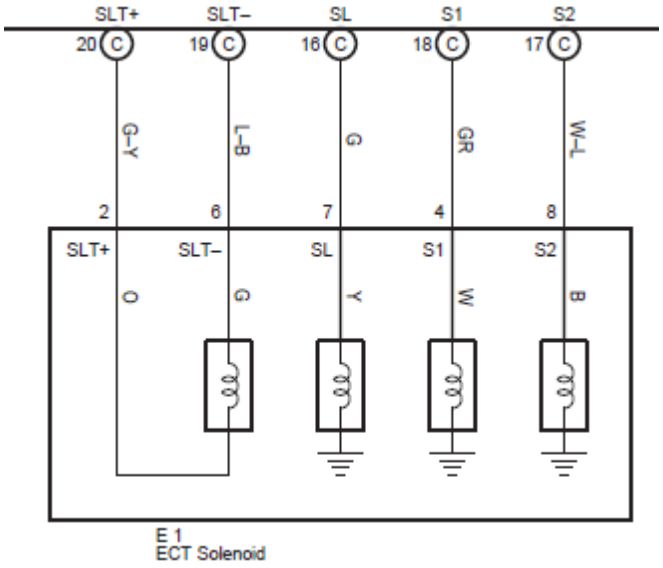


T 17 (A)	T 18 (B)
1	1
2	2
3	3
4	4
5 - BATT (L)	5
6 - IG (B/O)	6
7	7
8 - OILW (P)	8 - D (G/Y) , +
9	9 - R (R/Y) , +
10 -	10 - L (G/R)
11 -	11 - 2 (L)
12 -	12 - 3 (G/O)
13	13
14 - STP (G/W)	14
15	15 - L4 (G/W) transfer indicator sw. L4
16	16 - TFN (W/G) transfer indicator sw. Neutral
17	17
18	18
19	19
20 - CAN- (P)	20
21 - CAN+ (V)	21
22	22
23	23 - SIL (R/Y)
24	24 - WFSE (W)
25 - SP1 (V/R)	
26	

T 19 (C)

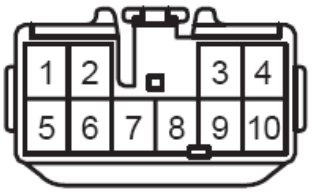
1 - E1 (BR)	16 - SL (G)
2 - NCO- (P)	17 - S2 (W/L)
3 - NCO+ (V)	18 - S1 (GR)
4	19 - SLT- (L/B)
5	20 - SLT+ (G/Y)
6	21
7	22
8	23 - E2 (B/Y)
9	24 - THOC (BR) A/T fluid temp sen.
10 - E01 (W/B)	25
11 - STA (B/Y)	26
12 - NSW (L/Y)	27
13	28
14	29 - SP2- (G)
15	30 - SP2+ (R)

A/T Solenoid



4WD ECU

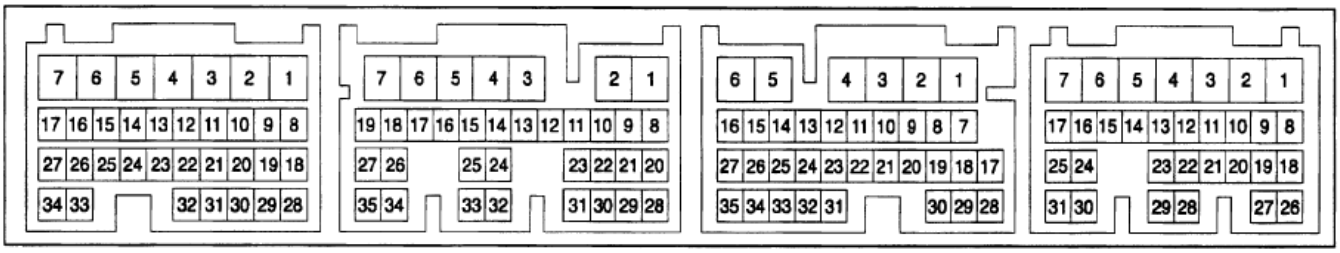
F14
Green



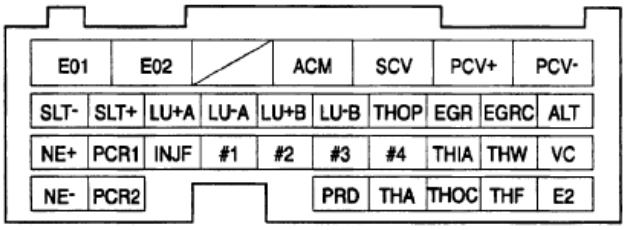
DL1 (R/Y)	**DL2 (R/W)**			**DM2 (R)**	**DM1 (Y)**
GND (W/B)	**4WD (B)**	**IND1 (W/R)**	**ADD (R/B)**	*	**IG (B/Y)**

2KD-FTV - Surf

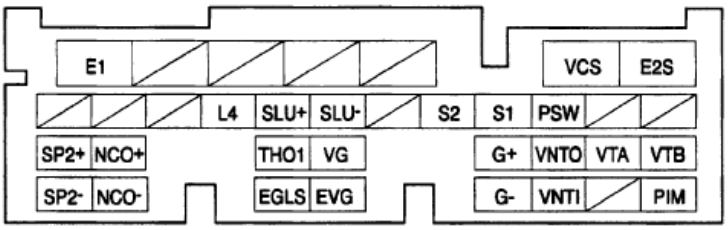
Разъем “A” Разъем “B” Разъем “C” Разъем “D”



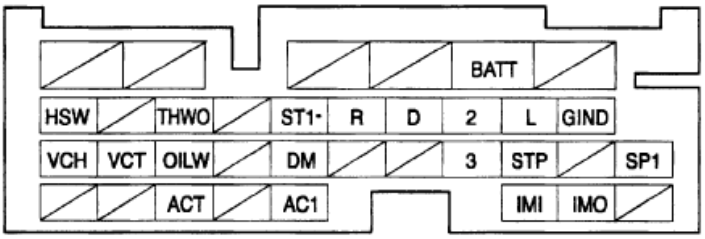
Разъем “A”



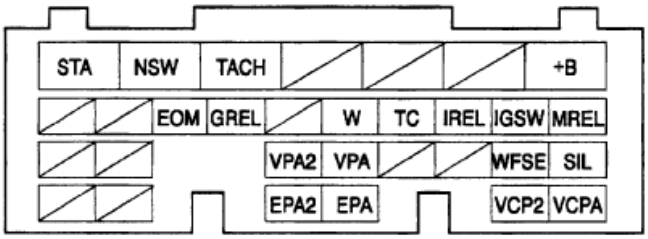
Разъем “B”



Разъем “C”

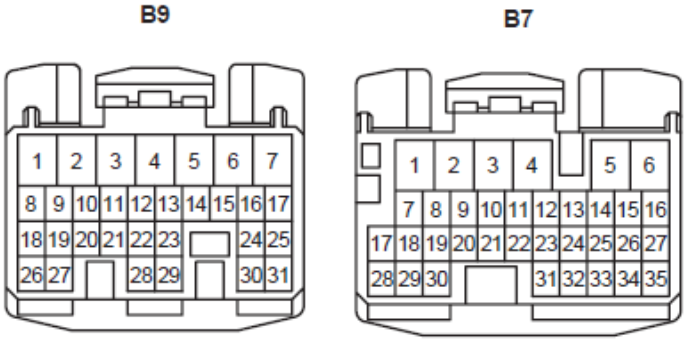


Разъем “D”



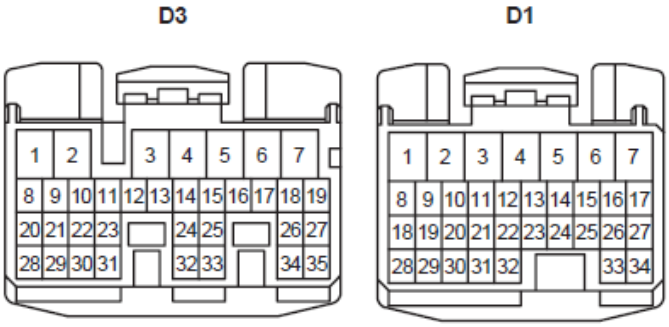
2KD-FTV , Hiace 2.5 ,Commutator
กล่องเกียร์แยก

B9(A), B7(B), D3(C), D1(D)
Engine ECU



หน้าปลั๊ก

B9 (A)	B7 (B)
1 - + B (B/R)	1
2 - THWO (Y) , Combination Meter	2 - BATT (B/R)
3	3
4 - TACH (B/Y)	4
5	5
6 - NSW (B/W)	6 - EC (W/B)
7 - STA (R)	7
8 - MREL (G/Y) , +	8
9 - IGSW (B/R)	9
10 - IREL (R/L) , -	10
11 - TC (P)	11
12 - W (G/R)	12
13	13
14 - GIND (B/W)	14 - ST1 - (R/L)
15 - GREL (G) , +	15 - STP (R/W)
16 - E0M (W/B)	16
17	17 - SPD (P/L)
18 - SIL (W)	18 - AC1 (R/B)
19 - WFSE (L/R)	19 - ACT (G/W)
20 - RTHW (L/R) , Radiator Water Temp.	20
21	21 - CAN- (W)
22 - VPA (L)	22 - CAN+ (L)
23 - VPA2 (B)	23 - CANL (W)
24	24 - CANH (B)
25	25
26 - VCPA (W)	26
27 - VCP2 (R/L)	27
28 - EPA (W/L)	28
29 - EPA2 (W/R)	29
30	30
31	31
	32
	33
	34
	35

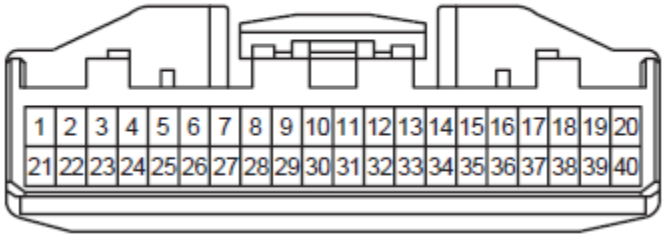


หน้าปลั๊ก

D3 (C)	D1 (D)
1	1 - PCV - (Y/R)
2	2 - PCV + (P)
3	3
4 - LUSL (B) , Throttle Body	4
5	5
6	6 - E02 (BR)
7 - E1 (BR)	7 - E01 (BR)
8	8 - ALT (W)
9 - EGR (B/W) , -	9
10	10 - VNTO (B/O)
11	11 - RFC2 (P/L) , Fan No.2
12	12 - RFC (LG/B) , Fan No.1
13	13 - FAN (w/L) , Fan No.3
14	14
15	15
16	16
17	17
18	18 - VC (L/B)
19	19 - THW (R/W)
20	20 - THIA (R/L) , Inlet Air Temp.
21	21 - # 40 (B/Y)
22	22 - # 30 (Y/B)
23 - G + (R)	23 - # 20 (G/Y)
24	24 - # 10 (G/R)
25	25 - INJF (Y)
26	26 - PCR1 (P)
27	27 - NE + (Y)
28 - PIM (P)	28 - E2 (Y/R)
29 - VLU (R/L) , Throttle Body	29 - THF (R)
30	30
31 - G - (G)	31 - THA (R)
32	32
33 - EGLS (P)	33
34	34 - NE - (L)
35	

Hiace - Combination Meter

H20

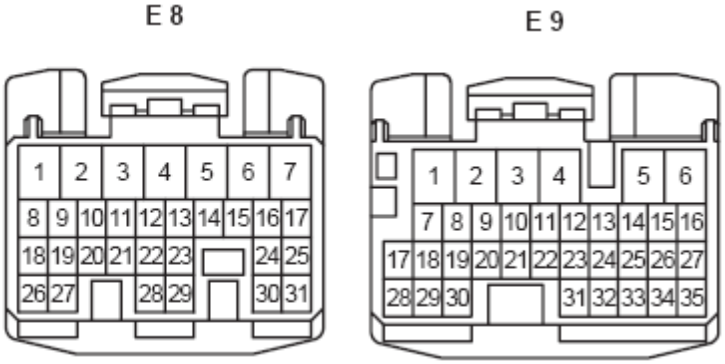


H 20

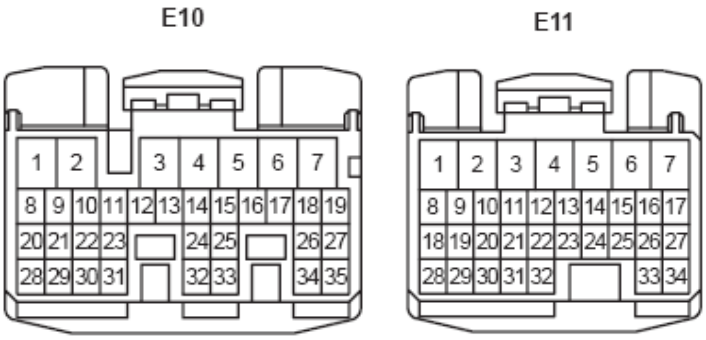
1 - 3 (B)
2 - 2 (Y)
3 - L (R)
4 - Door Sw. (Y/R)
5 - BATT (R)
6 - IG (B/R)
7 - E1 (W/B)
8 - E2 , FUEL (W/B)
9 - SP1 (P/L)
10 - TAIL (G)
11 - Unlock Warning Sw. (Y)
12 - Door Sw.(R/G)
13 - FUEL (Y/R)
14 - TACH (B/Y)
15 - SPD (P)
16 - Fuel Sedimentary Sw. (R/B)
17 - THWO (Y)
18 - Fuel Filter Sw. (LG)
19 - Front Seat Inner belt (LG)
20 - Engine Oil Level Sen. (Y/G)
21 - D (G/Y)
22 - N (GR)
23 - R (L)
24 - P (R/W)
25 - Glow Lamp (B/W)
26 - Turn R (L/R)
27 - OIL Sw. (W)
28
29 - E2 , SPD (BR)
30 - FOG (Y)
31 - Turn L (L)
32 - Check Engine Lamp (G/R)
33 - Charge Lamp (B)
34 - ST (R)
35
36 - Brake Lamp , Brake Fluid Level Sw. (B)
37 - Brake Lamp , ABS ECU (B)
38 - HI Beam (R/B)
39 - ABS Lamp (B/R)
40 - SRS Lamp (B/Y)

2TR-FE , FORTUNER– VIGO 2.7(TGN51)
1TR-FE , INNOVA

E 9(F), E10(G), E11(H), E12(I)
Engine ECU



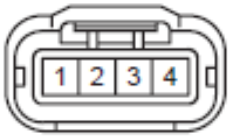
E 8 (A) - F	E 9 (B) - G
1 - + B (B)	1 - TACH (B/W)
2	2
3 - BATT (L)	3 - ELS3 (B)
4	4 - STP (G/W)
5	5
6	6
7 - +BM (R/W)	7
8 - MREL (W/G) , +	8 - SPD (V/R)
9 - IG (B/O)	9 - L (G/R)
10	10 - 2 (L)
11	11 - R (R/Y)
12 - STA (B/Y)	12
13	13 - SIL (R/Y)
14	14 - THWO (P)
15 - ELS (G)	15 - IMO (Y/B)
16 - ST1- (R/L) Normally close	16 - IMI (Y/G)
17	17 - TC (P/B)
18 - VPA (W/L)	18
19 - VPA2 (GR/G)	19 - 3 (G/O)
20 - EPA (BR/W)	20
21 - EPA2 (BR/Y)	21
22 - EC (R)	22
23	23
24	24 - AC1 (Y)
25 - FC (LG/ B)	25 - ACT (R/L)
26 - VCPA (LG/R)	26
27 - VCP2 (BR/R)	27
28	28
29 - E0M (W/B)	29 - OILW (P) A/T oil temp lamp
30 - NSW (L/Y)	30 - W (R/B)
31	31
	32 - F/PS (B) , SRS System
	33
	34
	35 - WFSE (W)



E 10 (C) - H	E 11 (D) - I
1 - # 40 (W)	1 - HA1A (Y)
2 - # 30 (R)	2 - HT1B (L/Y)
3 - ME01 (W/B)	3 - E1 (BR)
4 - E03 (W/B)	4 - M- (W)
5 - # 20 (G)	5 - M+ (B)
6 - # 10 (L)	6 - E02 (W/B)
7 - E04 (W/B)	7 - E01 (W/B)
8 - S2 (B/R)	8 - GE01 (BR)
9 - S1 (B/W)	9
10	10 - ALT (G)
11 - SL (L/Y)	11 - AIRP (W/L)air injection control driver
12 - SLT+ (B/L)	12 - OC1- (Y)
13 - SLT- (B/Y)	13 - OC1+ (P/L)
14	14 - IGT4 (G)
15	15 - IGT3 (G/B)
16	16 - IGT2 (R/L)
17	17 - IGT1 (R)
18	18 - VC (LG/B)
19	19 - VTA2 (LG)
20 - AIDI (G/W) air injection control driver	20 - VTA1 (B/R)
21	21 - A1A+ (B)
22	22 - THOC (W/L) A/T fluid temp sen.
23 - PRG (L)	23 - IGF1 (G/R)
24	24 - AIRD (V) air injection control driver
25	25 - OX1B (B)
26 - NCO- (P)	26 - G2 (R)
27 - SP2- (R)	27 - NE+ (L)
28 - VG (L/W)	28 - E2 (BR)
29 - THA (L/B)	29 - KNK1 (B)
30 - E2G (L/R)	30 - EKNK (W)
31	31 - A1A- (W)
32 - PSW (G/Y)	32 - THW (B)
33	33
34 - NCO+ (V)	34 - NE- (G)
35 - SP2+ (G)	

Direct Coil

I 1
Black



IG	IGF	IGT	E1

Air Flow Sensor

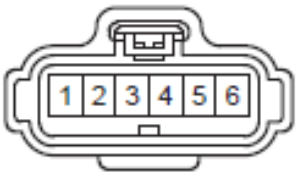
A 4
Black



+B	E2G	VG	THA	E2

Throttle Body Control

T 1
Black



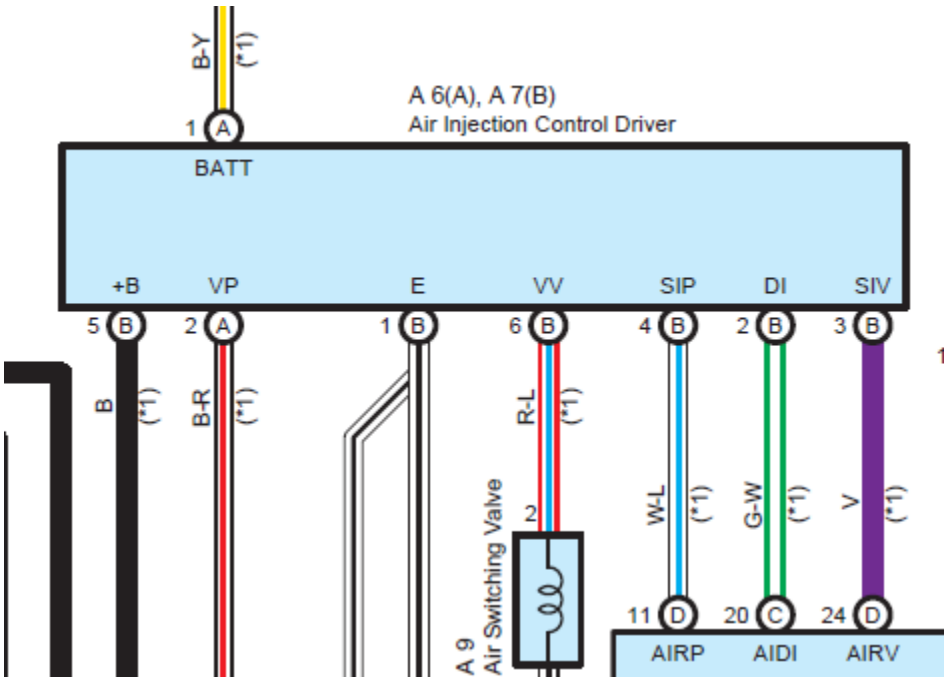
M-	M+	E2	VTA2	VC	VTA1

Acceleration Position Sensor



VCP2	EPA2	VPA2	VCPA	EPA	VPA

Air Injection Control Driver

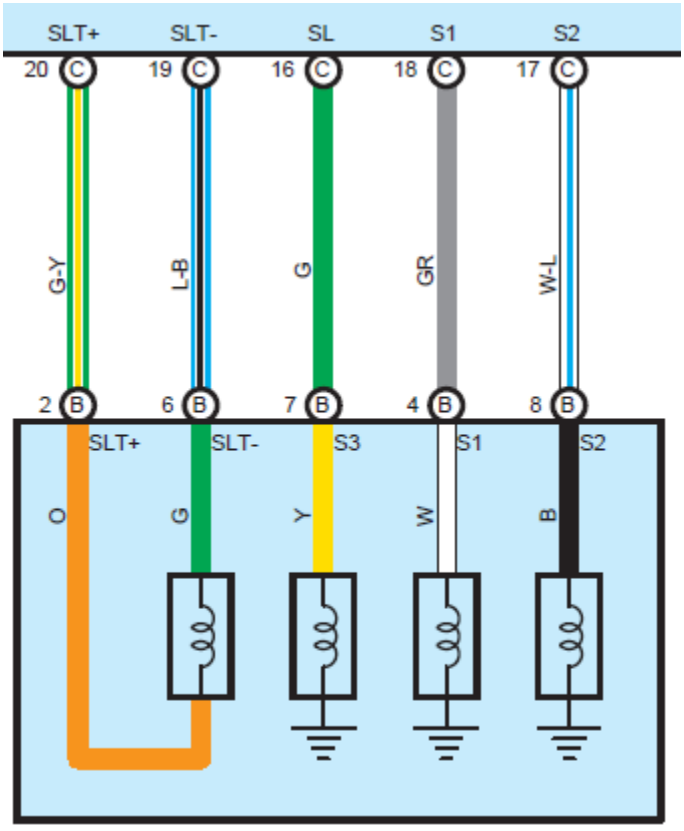


A/T Solenoid 4 Speed

E 1
(2TR–FE)

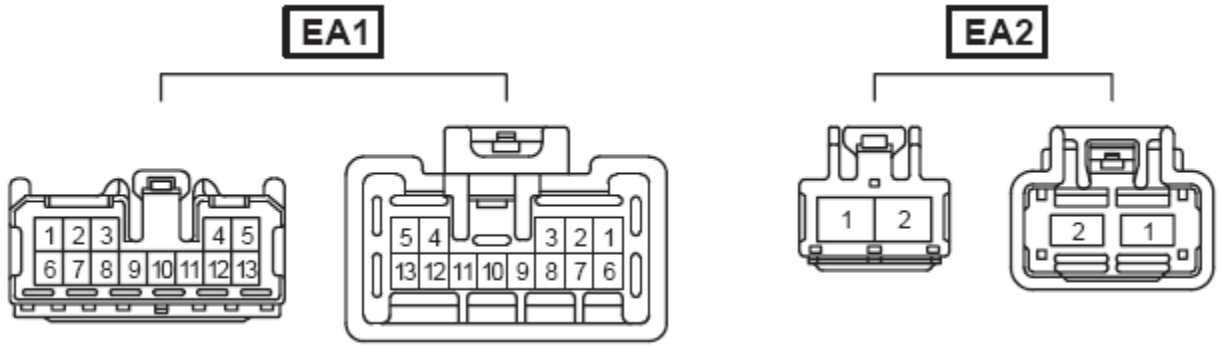


	SLT+		**S1**
	SLT-	**SL**	**S2**



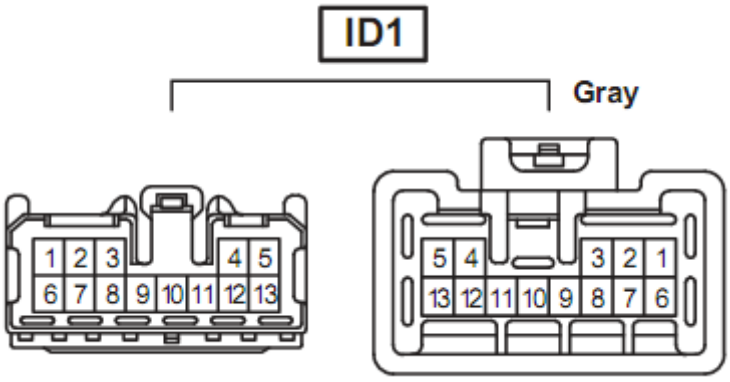
E 1(B)
ECT Solenoid

VIGO 2.7 ปลั๊กข้าง Fuse box ในห้องเครื่อง



EA1	EA2
1 - 2 - 3 - 4 - STA (B/Y) ST Relay 5 - 6 - 7 - 8 - 9 - +B A/F Relay (R/L) 10 - 11 - 12 - +B (B) Air Flow 13 - S Charge (W)	1 - Glow (B/R) 2 - ST (L)

VIGO 2.7 ปลั๊กด้านใน หลังกล่องเก็บของ

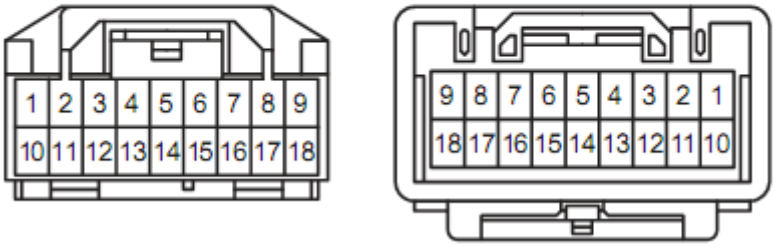


ID1

1 - A/C Compressor (L/W)
2 - IG R (R/L)
3 - R (Y)
4 - IG Injector (B/R)
5 - IG Coil (R)

6 - L4 (G/W) L4 Position Sw.
7 -
8 - TFN (W/G) Transfer Neutral Sw.
9 -
10 -
11 -
12 -
13 -

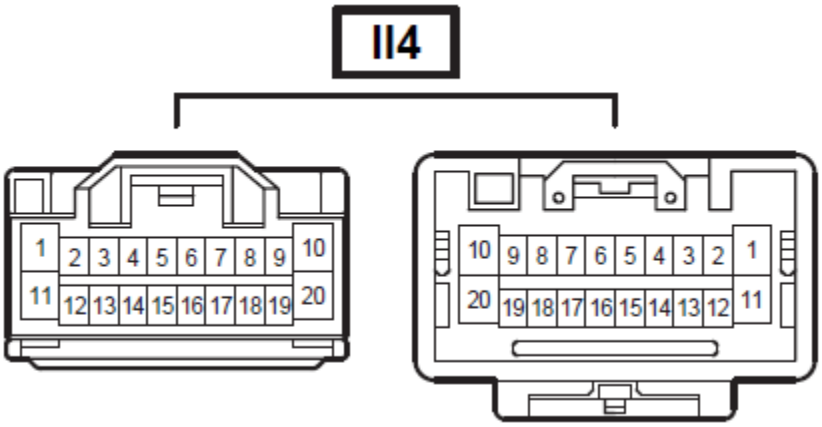
ID2



ID2

1 - NSW (L/Y)
2 -
3 - IG Charge (R/L)
4 - L Charge (GR)
5 - P (G/B)
6 -
7 - STA (B/Y) A/T ECU
8 -
9 -
10 -
11 -
12 -
13 -
14 - STA (B/Y) Engine ECU
15 - IG SPD (R/B)
16 - SPD (P/L)
17 -
18 - E1 (BR) DLC3

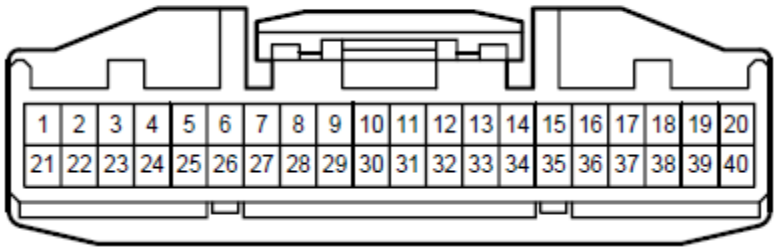
VIGO 2.7 ปลั๊กด้านใน ข้างเรือนไมล์



II4	
1 - +B (B)	11
2 - BATT (B/Y) Turn Hazard Sw.	12
3	13
4 - ST1- (R/L)	14 - MREL (W/G)
5 - FC (LG/B) C/OPN Relay	15
6	16
7	17
8	18
9	19
10 - E1 (W/B) ST Relay	20

Fortuner - Combination Meter

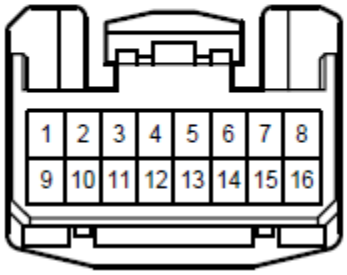
C10



C 10

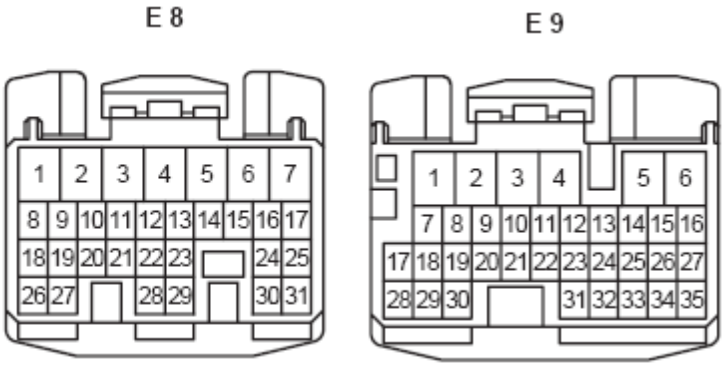
1	-	BATT (R)
2	-	
3	-	
4	-	
5	-	
6	-	
7	-	
8	-	
9	-	
10	-	
11	-	
12	-	
13	-	
14	-	
15	-	
16	-	
17	-	
18	-	
19	-	
20	-	
21	-	
22	-	
23	-	
25	-	
26	-	
27	-	
28		
29	-	
30	-	
31	-	
32	-	
33	-	
34	-	
35		
36	-	
37	-	
38	-	
39	-	
40	-	

C11

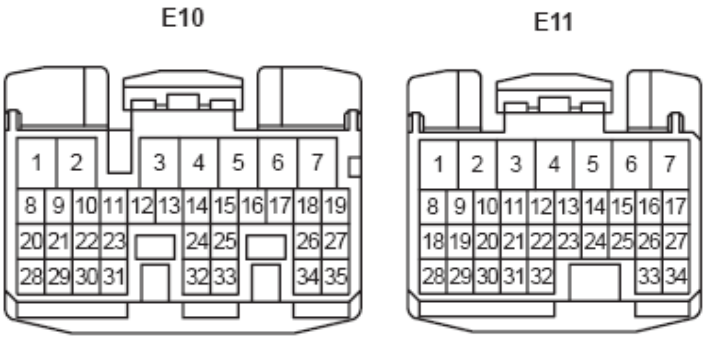


C 11
1 -
2 -
3 -
4 -
5 -
6 -
7 -
8 -
9 -
10 -
11 -
12 -
13 -
14 -
15 -
16 -

2TR-FE , Commutator



B9 (A)	B7 (B) - G
1 - + B (B/R)	1 - TACH (B/Y)
2	2
3 - BATT (B/R)	3 - ELS3 (L/R)
4	4 - STP (R/W)
5	5
6	6
7 - +BM (Y/B)	7
8 - MREL (G/Y) , +	8 - SPD (P/L)
9 - IG (B/R)	9 - L (R)
10 - RFC (LG/B) , Cooling Fan ECU	10 - 2 (Y)
11	11 - R (L)
12 - STA (R)	12
13	13 - SIL (R/Y)
14	14 - THWO (Y)
15 - ELS (G)	15 - IMO (W/R)
16 - ST1- (R/L)	16 - IMI (B/W)
17	17 - TC (P)
18 - VPA (L)	18
19 - VPA2 (B)	19 - 3 (B)
20 - EPA (W/L)	20
21 - EPA2 (W/R)	21
22 - EC (W/B)	22
23	23
24	24 - AC1 (Y)
25 - FC (L/Y)	25 - ACT (R/L)
26 - VCPA (W)	26
27 - VCP2 (R/L)	27
28	28
29 - E0M (W/B)	29 - OILW (P) A/T oil temp lamp
30 - NSW (B/W)	30 - W (G/R)
31	31
	32 - F/PS (L) , SRS System
	33 - CAN H (B)
	34 - CAN L (W)
	35 - WFSE (W)

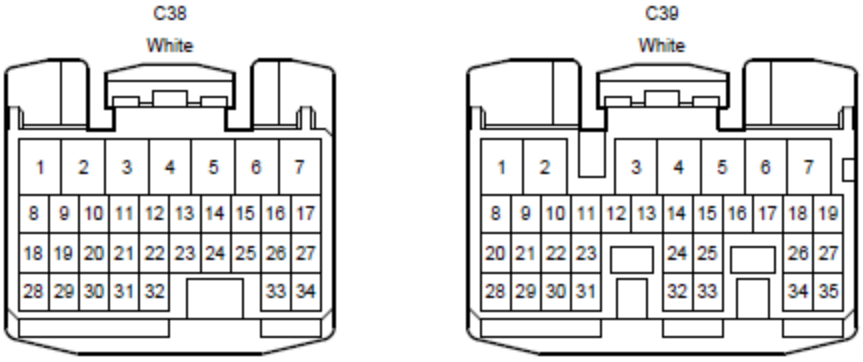


D3 (C)	D1 (D)
1 - # 40 (R)	1 - HA1A (Y)
2 - # 30 (Y)	2 - HT1B (Y)
3 - ME01 (BR)	3 - E1 (BR)
4 - E03 (BR)	4 - M- (L)
5 - # 20 (B/W)	5 - M+ (Y)
6 - # 10 (B)	6 - E02 (W/B)
7 - E04 (BR)	7 - E01 (W/B)
8 - S2 (P/L)	8 - GE01 (BR)
9 - S1 (LG)	9 - RL (R) , Alternator
10	10 - ALT (W)
11 - SL (GR)	11 - AIRP (W/R)air injection control driver
12 - SLT+ (L)	12 - OC1- (B/Y)
13 - SLT- (W/L)	13 - OC1+ (G/B)
14	14 - IGT4 (Y/R)
15	15 - IGT3 (B/Y)
16	16 - IGT2 (L/W)
17	17 - IGT1 (R/L)
18	18 - VC (L/B)
19	19 - VTA2 (G)
20 - AIDI (LG) air injection control driver	20 - VTA1 (R)
21	21 - A1A+ (Y)
22	22 - THOC (B/W) A/T fluid temp.
23 - PRG (B)	23 - IGF1 (W/R)
24	24 - AIRD (Y) air injection control driver
25	25 - OX1B (B)
26 - NCO- (L)	26 - G2 (Y)
27 - SP2- (R)	27 - NE+ (Y)
28 - VG (Y/G)	28 - E2 (Y/R)
29 - THA (R)	29 - KNK1 (G)
30 - E2G (L/R)	30 - EKNK (R)
31 - RTHW (L/R) , Radiator	31 - A1A- (L)
32 - PSW (G/W)	32 - THW (R/W)
33	33
34 - NCO+ (Y)	34 - NE- (B)
35 - SP2+ (G)	

1GD-FTV 2.8 , 2GD-FTV 2.4 – Revo (GUN12)

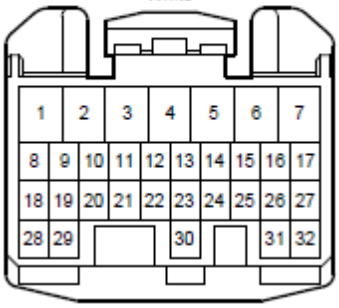
C38(A), C39(B), C40(C), C41(D), G49(E), G50(F)
ECM

หน้าปลั๊ก

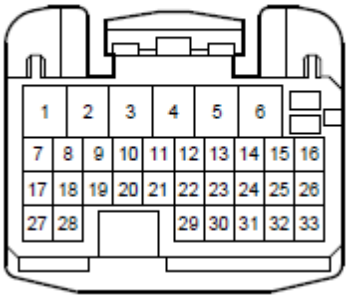


C 38 (A)	C 39 (B)
1 - #20+ (R)	1 - PRV- (Y)
2 - #20- (W)	2 - PRV+ (B)
3 - E1 (W/B)	3 - PCV+ (G)
4 - #40- (L)	4 - PCV- (R)
5 - #40+ (Y)	5 - E1 (W/B)
6 - #10+ (W)	6 - #30- (R)
7 - #10- (B)	7 - #30+ (G)
8 -	8 - SLU+ (R) , A/T
9 -	9 - SLU- (Y) , A/T
10	10 - GLD1 , Glow Plug ECU (W)
11	11 - GLDO , Glow Plug ECU (P)
12 - P (B)	12 -
13 - N (G)	13
14 - D (GR)	14 - THO1 (L) , A/T
15 - R (R)	15 - ETHO (G) , A/T
16 - VSV1 (L)	16 - THO2 (B) , A/T
17	17
18 - Turbo Pressure Sen. , PIM (L)	18 -
19 - Turbo Pressure Sen. , E2 (BR)	19 -
20 -	20 -
21 -	21 -
22 -	22 -
23	23
24	24 - Air Flow Sen. , EVG (Y)
25 -	25 - Air Flow Sen. , VC (L)
26 -	26 -
27 - E2 , THW (BR)	27 - E2 , THIA (BR)
28 - Turbo Pressure Sen. , VC (R)	28
29 -	29 -
30 -	30 -
31	31
32	32 - Air Flow Sen. , THA (B)
33	33 - Air Flow Sen. , VG (W)
34 - THW (B)	34
	35 - THIA (G)

C40
White



C41
White

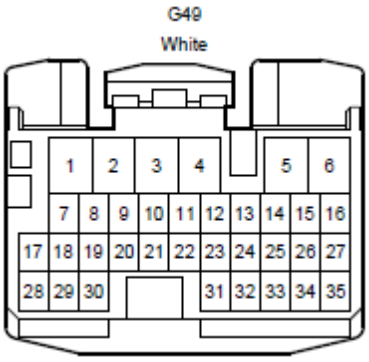


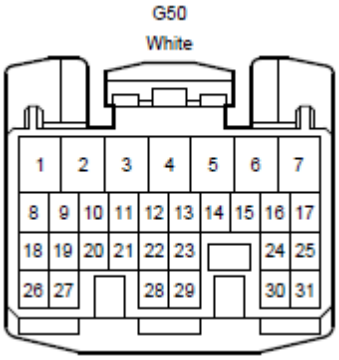
C 40 (C)

1 - M+ , Turbocharger (G)
2 - M- , turbocharger (W)
3 - E01 (W/B)
4 - +BD2 . EDU Rel. (B)
5 - +BD1 , EDU Rel. (B)
6 - M+ , EGR Control Valve (B)
7 - M- , EGR Control Valve (W)
8 - SL3+ (B)
9 - SL3- (L) , A/T
10 - SP2B (G) , A/T Output Sen.
11 - SP2O (R) , A/T Output Sen.
12 - NTB (B) , A/T Input Sen.
13 - NTO (W) , A/T Input Sen.
14
15 -
16 - SL2- (R) , A/T
17 - SL2+ (W) , A/T
18 - Fuel Pressure Sen. , PR (W)
19 - Fuel Pressure Sen. , E2 (R)
20 - E2 , Throttle Body (L)
21 - VTA , Throttle Body (W)
22 - VNE2 , Turbocharger (W)
23 - VTA1 , Turbocharger (P)
24 - E2 , EGR Control Valve (W)
25 - VTA , EGR Control Valve (G)
26 -
27 -
28 - Fuel Pressure Sen. , VC (G)
29 - VC , Throttle Body (Y)
30 - VNVC , Turbocharger (R)
31 - VC , EGR Control Valve (R)
32

C 41 (D)

1 - E1 (W/B)
2 - E04 (W/B)
3 - ME01 (W/B)
4 - E02 (W/B)
5 - M- , Throttle Body (R)
6 - M+ , Throttle Body (G)
7 - LIN (P)
8 - SL4- (R) , A/T
9 - SL4+ (G) , A/T
10 - SL1+ (P) , A/T
11 - SL1- (V) , A/T
12 - L4 (Y)
13 - SL (G) , A/T
14 - SLT+ (V) , A/T
15 - SLT- (L) , A/T
16 -
17 - Cam Sen. , VC (B)
18 - Cam Sen. , E2 (W)
19 - Crank Sen. , E2 (R)
20 - Crank Sen. , VC (W)
21 -
22 -
23
24
25 - Fuel Pressure Sen. , E2S (P)
26 - Fuel Pressure Sen. , PR2 (R)
27 - Cam Sen. (R)
28 - Crank Sen. (Y)
29 -
30 -
31
32
33 - Fuel Pressure Sen. , VCS (B)

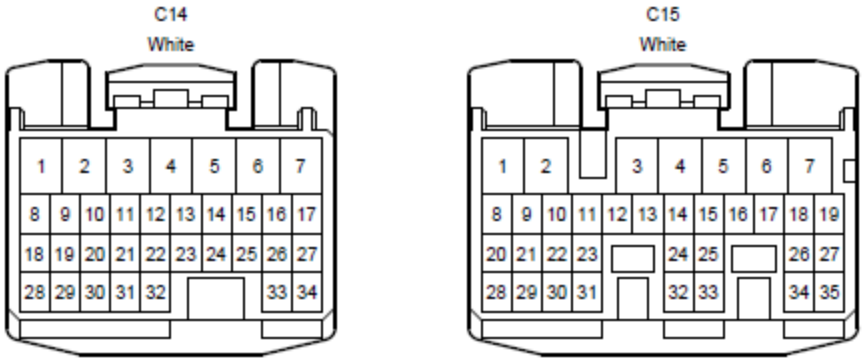




G 49 (E)	G 50 (F)
1 - INH (V) , Wiper motor	1 - BATT (Y)
2 - Fuel Filter (W) , -	2 - +B (L)
3 -	3 - +B2 (B)
4	4 - +B3 (B)
5	5
6	6
7 -	7 -
8 - MTMS (B) , IMT Sw. , -	8 - EC (BR)
9 - ECMS (L) , ECO Mode , -	9 - PSST (G) , -
10 - SPD (V)	10
11 - NSW (L) , +	11
12 - PWMS (R) , PWR Mode , -	12 - ST1- (GR)
13 - S (L)	13 - STP (L)
14 - MREL (W) , +	14 - ACT (LG)
15 - GREL (LG) , +	15 - AC1 (GR)
16 - TACH (V)	16 - IMI (B)
17 - CAN H (B)	17 - IMO (Y)
18 -	18 - IGSW (GR)
19 -	19 -
20 - SFTD (G)	20 - Clutch Stroke Sen. (SB)
21 - SFTU (W)	21 - Clutch Stroke Sen. , E2 (R)
22 - STA (GR) , +	22 - APP Sen. , EPA (G)
23 - NEO (G)	23 - Clutch Stroke Sen. , VC (G)
24	24
25 - TC (R)	25 - APP Sen. , EPA2 (Y)
26 -	26 - Cruise Control , CCS (G)
27 -	27 -
28 - CAN L (W)	28 - APP Sen. , VPA (W)
29 -	29 - APP Sen. , VCPA (LG)
30 -	30 - APP Sen. , VCP2 (R)
31	31 - APP Sen. , VPA2 (GR)
32	
33	
34	
35	

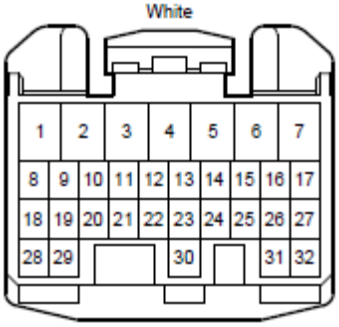
2TR-FE – Revo

C14(A), C15(B), C16(C), G56(D), G57(E)
ECM

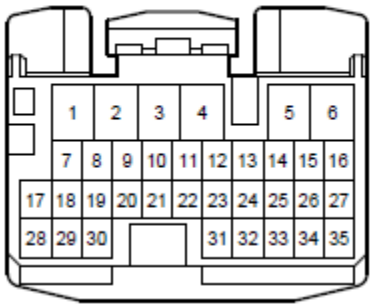


C 14 (A)	C 15 (B)
1 - E01 (W/B)	1 - #40 (W)
2 - E02 (W/B)	2 - #30 (V)
3 - E1 (W/B)	3 - #20 (P)
4 - ME01 (W/B)	4 - #10 (L)
5 - +BM (W)	5 - E04 (W/B)
6 - M- (W) , Throttle Body Control	6 - HA1A (Y) , A/F Sen. Bank 1 Sen.1
7 - M+ (B) , Throttle Body Control	7 - HT1B (L) , OX Sen. Bank 1 Sen.2
8 - OE1- (Y) , Cam Timing Oil Control Valve Ex.	8 -
9 - OE1+ (R) , Cam Timing Oil Control Valve Ex.	9 - SP2O (Y) , A/T Output Speed Sen.
10 - OC1- (Y) , Cam Timing Oil Control Valve In.	10 - SP2B (L) , A/T Output Speed Sen.
11 - OC1+ (L) , Cam Timing Oil Control Valve In.	11
12 - IGF (GR)	12 - SL (G) , A/T Sol.
13 - IGT4 (G)	13 - PRG (L) , Purge VSV
14 - IGT3 (B)	14 - PBV (L) , VSV
15 - IGT2 (L)	15 - NSW (L)
16 - IGT1 (R)	16 - LIN (P)
17 - GE01	17 - STA (G)
18 - VTA2 (LG) , Throttle Body Control	18 -
19 -	19 -
20 - VCAI (R) , Air Pressure Sen.	20 - KNK1 (B)
21 - VCV1 (B) , VVT Sen. Intake Side	21 -
22 - VV1- (V) , VVT Sen. Intake Side	22 - THW (R)
23 - VV1+ (P) , VVT Sen. Intake Side	23 - THA (B) , Air Flow Sen.
24 - EV1+ (R) , VVT Sen. Exhaust Side	24 - VG (W) , Air Flow Sen.
25 - EAIP (W) , Air Pressure Sen.	25 -
26 - AIP (B) , Air Pressure Sen.	26 - A1A+ (B) , A/F Sen. Bank 1 Sen.1
27 - NE+ (B)	27 - OX1B (W) , OX Sen. Bank 1 Sen.2
28 - ETA (L) , Throttle Body Control	28 - EKNK (W)
29 - VCTA (Y) , Throttle Body Control	29 -
30 - VTA1 (B) , Throttle Body Control	30 - ETHW (BR)
31 - VCE1 (B) , VVT Sen. Exhaust Side	31
32 - EV1- (G) , VVT Sen. Exhaust Side	32 - E2G (R) , Air Flow Sen.
33	33 - VCVG (L) , Air Flow Sen.
34 - NE- (W)	34 - A1A- (W) , A/F Sen. Bank 1 Sen.1
	35 - EX1B (B) , OX Sen. Bank 1 Sen.2

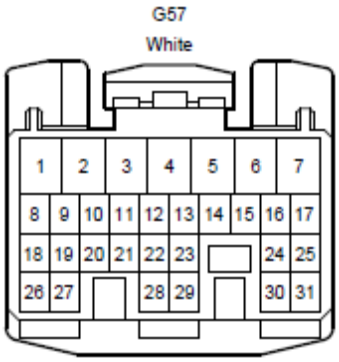
C16
White



G56
White



C 16 (C)	G 56 (D)
1 - SLU- (Y) , A/T Sol.	1 -
2 - SLU+ (R) , A/T Sol.	2
3 - E00 (W/B)	3 -
4 - SLT- (L)	4
5 - SLT+ (V) , A/T Sol.	5 - FC (B)
6 - SL2- (R) , A/T Sol.	6
7 - SL2+ (W) , A/T Sol.	7 -
8 - SL1- (V) , A/T Sol.	8 - R (R)
9 - SL1+ (W) , A/T Sol.	9 - IMO (Y)
10	10 - IMI (B)
11	11 - TACH (V)
12 - SL4- (R) , A/T Sol.	12 -
13 - SL4+ (G) , A/T Sol.	13 - CAN H
14	14 - CAN L
15 - SL3- (L) , A/T Sol.	15 -
16 - SL3+ (B) , A/T Sol.	16 -
17 - SFTU (W) , -	17
18 -	18 - D (P)
19 - NTO (W) , A/T Input Speed Sen.	19 -
20 - THO1 (L) , A/T Sol.	20 - AIDI (B) , Air Injection Control Driver
21 - ETHO (G) , A/T Sol.	21 -
22 - THO2 (B) , A/T Sol.	22 -
23	23 - SPD (V)
24 - N (G)	24
25 - P (G)	25 -
26 -	26 -
27 - SFTD (G) , -	27 -
28	28 - ELS2 (B)
29 - NTB (B) , A/T Input Speed Sen.	29 -
30 - S Mode (L) , -	30 -
31	31
32	32
	33
	34
	35

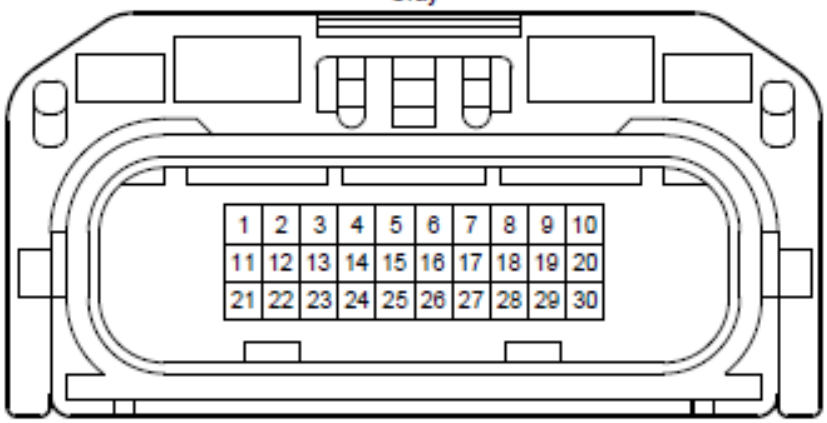


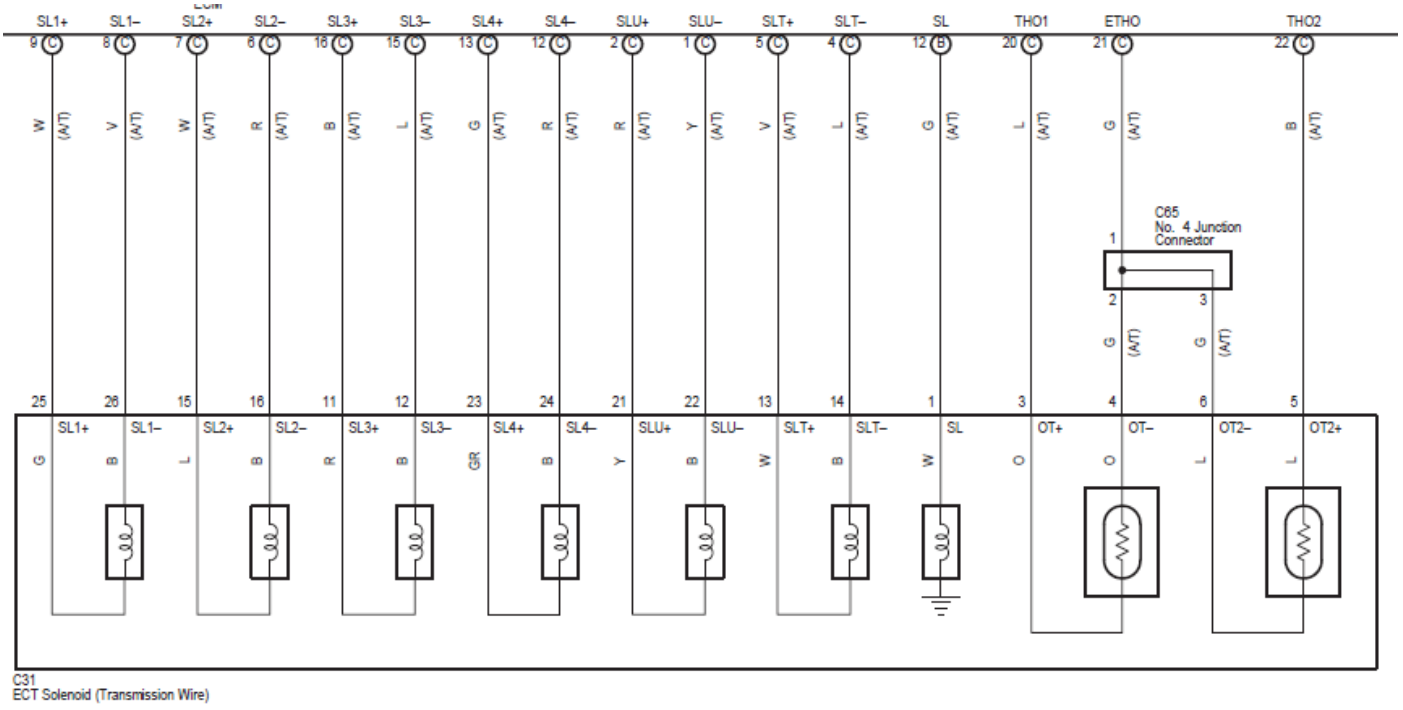
G 57 (E)

1 - +B (L)
2 - +B2 (B)
3 - BATT (Y)
4
5 - AIRV (SB) , Air Injection Control Driver
6 - AIRP (Y) , Air Injection Control Driver
7 -
8 - IGSW (GR)
9 -
10 - STP (L)
11 - ST1- (GR)
12 -
13 - ECMS (L) , ECO Mode Sw. , -
14 - PWMS (R) , PWR Mode Sw. , -
15 -
16 - NEO (G)
17
18 - EC (BR)
19 - TC (R)
20 - VCPA (LG) , Pedal Sen.
21 -
22 - VCP2 (R) , Pedal Sen.
23
24 - ACT (LG)
25 -
26 - VPA (W) , Pedal Sen.
27 - EPA (G) , Pedal Sen.
28 - VPA2 (GR) , Pedal Sen.
29 - EPA2 (Y) , Pedal Sen.
30 - AC1 (GR)
31

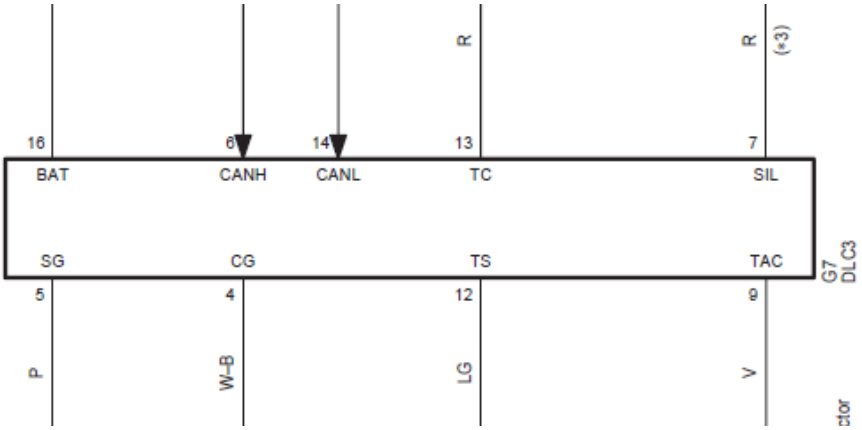
A/T Solenoid

C31
Gray





DLC 3


16
BAT
6
CANH
14
CANL
R
13
TC
R
(*3)
7
SIL
SG
5
P
CG
4
W-B
TS
12
LG
TAC
9
V
G7
DLC3