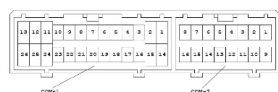


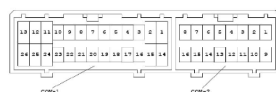
5E-FHE EXY10 TOYOTA SERA ECU phase I (march 1990 to may 1991)



26 pin plug	
1	~
2	NSW Neutral Starter Switch
3	THW Water Temperature Signal
4	PIM Pressure Intake Manifold
5	THA Intake Air Temperature
6	IGT Ignition Timing
7	IGF Ignition Feedback from the Ignitor-Coil
8	G1 Distributor
9	G- Distributor Crank Angle
10	OX Oxygen Sensor (Lambda Sensor)
11	STA Engine Cranking Signal (Starter Switch)
12	#10 Injector Pulse 1 & 3
13	E01 Computer Ground
14	DISC Aux. Control Valve or Idle-Up System Vacuum Switching Valve
15	~
16	EZ Sensor Ground
17	FSW Throttle Position Sensor
18	VC Throttle Position Sensor (Signals ECU throttle position is at idle)
19	IDL Distributor
20	G2 Distributor
21	NE Part of the IIA (Integrated Ignition Assembly) (RPM)
22	E21 Sensor Ground
23	KNK Knock Sensor
24	E1 Computer Ground
25	#20 Injector Pulse 2 & 4
26	E02 Computer Ground

16 pin plug	
1	+B1 Switched Battery Power (12V)
2	BATT Switched Battery Power (+12V) (EFI Main Relay)
3	COO Check Connector Outputs
4	FC Circuit Opening Relay (Fuel Cut)
5	ELS Electrical Load Signal System Taillight Relay
6	AC2 12V To Aircon Computer
7	~
8	T ~
9	+B Switched Battery Power (12V)
10	W Warning Light
11	EGW Catalytic Converter Temperature Warning Light (Combination Meter)
12	~
13	SPD Speed Signal
14	ACT A/C Cut Control System
15	AC1 A/C Switch Signal System (12V to Aircon Computer)
16	VF Check Connector Outputs

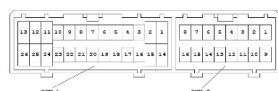
5E-FHE EXY10 TOYOTA SERA ECU phase II & III (may 1991-June 1992 / June 1992 - December 1995)



26 pin plug	
1	~
2	NSW Neutral Starter Switch
3	THW Water Temperature Signal
4	PIM Pressure Intake Manifold
5	THA Intake Air Temperature
6	IGT Ignition Timing
7	IGF Ignition Feedback from the Ignitor-Coil
8	G1 Distributor
9	G- Distributor Crank Angle
10	OX Oxygen Sensor (Lambda Sensor)
11	STA Engine Cranking Signal (Starter Switch)
12	#10 Injector Pulse 1 & 3
13	E01 Computer Ground
14	DISC Aux. Control Valve or Idle-Up System Vacuum Switching Valve
15	~
16	EZ Sensor Ground
17	FSW Throttle Position Sensor
18	VC Throttle Position Sensor (Signals ECU throttle position is at idle)
19	IDL Distributor
20	G2 Distributor
21	NE Part of the IIA (Integrated Ignition Assembly) (RPM)
22	E21 Sensor Ground
23	KNK Knock Sensor
24	E1 Computer Ground
25	#20 Injector Pulse 2 & 4
26	E02 Computer Ground

16 pin plug	
1	+B1 Switched Battery Power (12V)
2	BATT Switched Battery Power (+12V) (EFI Main Relay)
3	COO Check Connector Outputs
4	FC Circuit Opening Relay (Fuel Cut)
5	ELS Electrical Load Signal System Taillight Relay
6	AC2 12V To Aircon Computer
7	~
8	T ~
9	+B Switched Battery Power (12V)
10	W Warning Light
11	EGW Catalytic Converter Temperature Warning Light (Combination Meter)
12	~
13	SPD Speed Signal
14	ACT A/C Cut Control System
15	AC1 A/C Switch Signal System (12V to Aircon Computer)
16	VF Check Connector Outputs

4E-FTE EP82 ECU 89661-10040 GREEN STICKER ma-5450

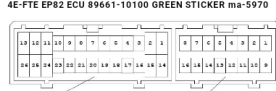


26 pin plug	
1	~
2	NSW Neutral Starter Switch
3	THW Water Temperature Signal
4	PIM Pressure Intake Manifold
5	THA Intake Air Temperature
6	IGT Ignition Timing
7	IGF Ignition Feedback from the Ignitor-Coil
8	G1 Distributor
9	G- Distributor Crank Angle
10	OX Oxygen Sensor (Lambda Sensor)
11	STA Engine Cranking Signal (Starter Switch)
12	#10 Injector Pulse 1 & 3
13	E01 Computer Ground
14	DISC Aux. Control Valve or Idle-Up System Vacuum Switching Valve
15	VSV1 Air Control Vacuum Switching Valve
16	E2 Sensor Ground
17	FSW Throttle Position Sensor
18	VC Throttle Position Sensor (Signals ECU throttle position is at idle)
19	IDL Distributor
20	G2 Distributor
21	NE Part of the IIA (Integrated Ignition Assembly) (RPM)
22	E21 Sensor Ground
23	KNK Knock Sensor
24	E1 Computer Ground
25	#20 Injector Pulse 2 & 4
26	E02 Computer Ground

16 pin plug	
1	+B1 Switched Battery Power (12V)
2	BATT Switched Battery Power (+12V) (EFI Main Relay)
3	COO Check Connector Outputs
4	FC Circuit Opening Relay (Fuel Cut)
5	ELS Electrical Load Signal System Taillight Relay
6	AC2 12V To Aircon Computer
7	BC Boost Control
8	T ~
9	+B Switched Battery Power (12V)
10	W Warning Light
11	EGW Catalytic Converter Temperature Warning Light (Combination Meter)
12	~
13	SPD Speed Signal
14	ACT A/C Cut Control System
15	AC1 A/C Switch Signal System (12V to Aircon Computer)
16	VF Check Connector Outputs

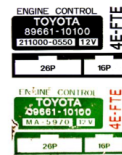


4E-FTE EP82 ECU 89661-10100 BLACK STICKER 211000-0550 12V 4E-FTE EP82 ECU 89661-10100 GREEN STICKER ma-5970



26 pin plug	
1	~
2	NSW Neutral Starter Switch
3	THW Water Temperature Signal
4	PIM Pressure Intake Manifold
5	THA Intake Air Temperature
6	IGT Ignition Timing
7	IGF Ignition Feedback from the Ignitor-Coil
8	G1 Distributor
9	G- Distributor Crank Angle
10	OX Oxygen Sensor (Lambda Sensor)
11	STA Engine Cranking Signal (Starter Switch)
12	#10 Injector Pulse 1 & 3
13	E01 Computer Ground
14	DISC Aux. Control Valve or Idle-Up System Vacuum Switching Valve
15	VSV1 Air Control Vacuum Switching Valve
16	E2 Sensor Ground
17	FSW Throttle Position Sensor
18	VC Throttle Position Sensor (Signals ECU throttle position is at idle)
19	IDL Distributor
20	G2 Distributor
21	NE Part of the IIA (Integrated Ignition Assembly) (RPM)
22	E21 Sensor Ground
23	KNK Knock Sensor
24	E1 Computer Ground
25	#20 Injector Pulse 2 & 4
26	E02 Computer Ground

16 pin plug	
1	+B1 Switched Battery Power (12V)
2	BATT Switched Battery Power (+12V) (EFI Main Relay)
3	COO Check Connector Outputs
4	FC Circuit Opening Relay (Fuel Cut)
5	ELS Electrical Load Signal System Taillight Relay
6	AC2 12V To Aircon Computer
7	TE2 Check Connector
8	TE1 Check Connector
9	+B Switched Battery Power (12V)
10	W Warning Light
11	EGW Catalytic Converter Temperature Warning Light (Combination Meter)
12	AC1 A/C Switch Signal System (12V to Aircon Computer)
13	SPD Speed Signal
14	ACT A/C Cut Control System
15	BC Boost Control
16	VF Check Connector Outputs



4E-FTE EP82 automatic ECU / part no. 89661-10110 / code. 211000-0630

26 PIN PLUG															
13	12	11	10	9	8	7	6	5	4	3	2	1	16	15	14
26	25	24	23	22	21	20	19	18	17	16	15	14	8	7	6

26 pin plug

1	IPV	Vacuum Switching Valve
2	STA	Engine Cranking Signal (Starter Switch)
3	IGF	Ignition Feedback from the Ignitor-Coil
4	NE	Part of the I/A (Integrated Ignition Assembly) (RPM)
5	G1	Distributor
6	L	ECT "L" Selection Signal Shift Position Switch
7	ECT "2"	Selection Signal Shift Position Switch
8	SL	ECT Solenoid
9	S2	ECT Solenoid
10	DISC	Aux. Control Valve or Idle-Up System Vacuum Switching Valve
11	VSU1	Air Control Vacuum Switching Valve
12	#10	Injector Pulse 1 & 3
13	EO2	Computer Ground
14	--	--
15	NSW	Neutral Starter Switch
16	SP2	No. 2 Vehicle Speed Sensor ECT in Auto-Transmission
17	G-	Distributor Crank Angle
18	G2	Distributor
19	DG	Check Connector
20	BC	Boost Control
21	S1	ECT Solenoid
22	IGT	Ignition Timing
23	OD2	Cruise Control Computer
24	E1	Computer Ground
25	#20	Injector Pulse 2 & 4
26	E01	Computer Ground



16 pin plug

1	STP	Stop Light Switch
2	PIM	Pressure Intake Manifold
3	THA	Intake Air Temperature
4	THW	Water Temperature Signal
75	P	Shift Position Switch (Parking)
6	OX	Oxygen Sensor (Lambda Sensor)
7	TE2	Check Connector
8	VF	Check Connector Outputs
9	E2	Sensor Ground
10	VTA/SPW	Throttle Position Sensor
11	VCC	Throttle Position Sensor (pin 1)
12	IDL	Throttle Position Sensor (Signals ECU throttle position is at idle)
13	M	Shift Position Switch
14	KNK	Knock Sensor
15	TE1	Check Connector
16	E21	Sensor Ground

12 pin plug

1	+B1	Switched Battery Power (12V)
2	BATT	Switched Battery Power (+12V) (EFI Main Relay)
3	CCO	Check Connector Outputs
4	FC	Circuit Opening Relay (Fuel Cut)
5	AC2	12V To Aircon Computer
6	ACT	A/C Out Control System
7	+B	Switched Battery Power (12V)
8	W	Warning Light
9	EGW	Catalytic Converter Temperature Warning Light (Combination Meter)
10	AC1	A/C Switch Signal System (12V to Aircon Computer)
11	SPD	Speed Signal
12	ELS	Electrical Load Signal System Taillight Relay

4E-FTE EP91 ECU pinout / part no. 89661-10200 / code. 211000-4290

26 PIN PLUG															
13	12	11	10	9	8	7	6	5	4	3	2	1	16	15	14
26	25	24	23	22	21	20	19	18	17	16	15	14	8	7	6

26 pin plug

1	IPV	Vacuum Switching Valve
2	STA	Engine Cranking Signal (Starter Switch)
3	IGF	Ignition Feedback from the Ignitor-Coil
4	NE	Part of the I/A (Integrated Ignition Assembly) (RPM)
5	G1	Distributor
6	L	ECT "L" Selection Signal Shift Position Switch
7	ECT "2"	Selection Signal Shift Position Switch
8	SL	ECT Solenoid
9	S2	ECT Solenoid
10	DISC	Aux. Control Valve or Idle-Up System Vacuum Switching Valve
11	VSU1	Air Control Vacuum Switching Valve
12	#10	Injector Pulse 1 & 3
13	EO2	Computer Ground
14	--	--
15	NSW	Neutral Starter Switch
16	SP2	No. 2 Vehicle Speed Sensor ECT in Auto-Transmission
17	G-	Distributor Crank Angle
18	G2	Distributor
19	DG	Check Connector
20	BC	Boost Control
21	S1	ECT Solenoid
22	IGT	Ignition Timing
23	OD2	Cruise Control Computer
24	E1	Computer Ground
25	#20	Injector Pulse 2 & 4
26	E01	Computer Ground



16 pin plug

1	STP	Stop Light Switch
2	PIM	Pressure Intake Manifold
3	THA	Intake Air Temperature
4	THW	Water Temperature Signal
5	P	Shift Position Switch (Parking)
6	OX	Oxygen Sensor (Lambda Sensor)
7	TE2	Check Connector
8	VF	Check Connector Outputs
9	E2	Sensor Ground
10	VTA/SPW	Throttle Position Sensor
11	VCC	Throttle Position Sensor (pin 1)
12	IDL	Throttle Position Sensor (Signals ECU throttle position is at idle)
13	M	Shift Position Switch
14	KNK	Knock Sensor
15	TE1	Check Connector
16	--	--

12 pin plug

1	+B1	Switched Battery Power (12V)
2	BATT	Switched Battery Power (+12V) (EFI Main Relay)
3	CCO	Check Connector Outputs
4	FC	Circuit Opening Relay (Fuel Cut)
5	AC2	12V To Aircon Computer
6	ACT	A/C Out Control System
7	+B	Switched Battery Power (12V)
8	W	Warning Light
9	EGW	Catalytic Converter Temperature Warning Light (Combination Meter)
10	AC1	A/C Switch Signal System (12V to Aircon Computer)
11	SPD	Speed Signal
12	ELS	Electrical Load Signal System Taillight Relay

as you can see pin 16 on 16 pin connector isn't used. That's the only difference between the two ecus except the size of them.

1995 US Paseo 5E-FE (AUTOMATIC) CALIFORNIA

26 PIN PLUG															
13	12	11	10	9	8	7	6	5	4	3	2	1	16	15	14
26	25	24	23	22	21	20	19	18	17	16	15	14	8	7	6

26 pin plug

1	SL	
2	STA	
3	IGF	
4	NE+	
5	--	
6	--	
7	S2	
8	--	
9	RSC	
10	RSO	
11	HT2	
12	#10	
13	EO1	
14	HT1	
15	NSW	
16	EGR	
17	NE-	
18	G2	
19	Z	
20	L	
21	IGT2	
22	IGT1	
23	SP2	
24	E1	
25	#20	
26	S1	

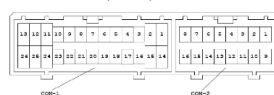
16 pin plug

1	DG	
2	PIM	
3	THA	
4	THW	
5	OX2	
6	OX1	
7	TE2	
8	VF	
9	E2	
10	VTA	
11	VCC	
12	IDL	
13	THG	
14	KNK	
15	TE1	
16	--	

12 pin plug

1	STP	
2	BATT	
3	OD1	
4	FC	
5	--	
6	ACT	
7	+B	
8	W	
9	OD2	
10	AC1	
11	SPD	
12	--	

1995 US Paseo 5E-FE (MANUAL) CALIFORNIA



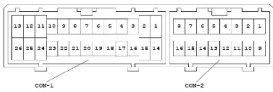
26 pin plug

1	RSC	
2	--	
3	THW	Water Temperature Signal
4	PIM	Pressure Intake Manifold
5	IGT2	
6	IGT1	
7	IGF	Ignition Feedback from the Ignitor-Coil
8	KNK	Knock Sensor
9	NE-	
10	OX1	
11	sta	
12	#10	
13	e01	
14	rs0	
15	THA	
16	E2	
17	VTA	
18	VCC	
19	IDL	
20	G2	
21	NE+	
22	THG	
23	OX2	
24	E1	
25	#20	
26	--	

16 pin plug

1	--	
2	BATT	
3	--	
4	FC	
5	HT2	
6	HT1	
7	TE2	
8	TE1	
9	+B	
10	W	
11	--	
12	AC1	
13	SPD	
14	ACT	
15	EGR	
16	VF	

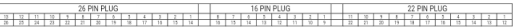
1995 US Paseo SE-FE (MANUAL) NOT CALIFORNIA



- 26 pin plug**
- 1 FPU
 - 2 NSW
 - 3 THW Water Temperature Signal
 - 4 PIM Pressure Intake Manifold
 - 5 THA
 - 6 IGT
 - 7 IGF Ignition Feedback from the Ignitor-Coil
 - 8 G
 - 9 G-
 - 10 OX
 - 11 STA
 - 12 #10
 - 13 E01
 - 14 DISC
 - 15 ~
 - 16 E2
 - 17 VTA
 - 18 VCC
 - 19 IDL
 - 20 NE-
 - 21 NE
 - 22 ~
 - 23 ~
 - 24 E1
 - 25 #20
 - 26 E02

- 16 pin plug**
- 1 ~
 - 2 BATT
 - 3 ~
 - 4 FC
 - 5 ELS
 - 6 ~
 - 7 ~
 - 8 T
 - 9 +B
 - 10 W
 - 11 AC1
 - 12 ~
 - 13 SPD
 - 14 ACT
 - 15 ~
 - 16 VF

1995 US Paseo SE-FE (AUTO) NOT CALIFORNIA



- 26 pin plug**
- 1 SL
 - 2 S1
 - 3 IGF
 - 4 NE
 - 5 G
 - 6 2
 - 7 TWG
 - 8 TOV
 - 9 FPU
 - 10 DISC
 - 11 #20
 - 12 #10
 - 13 E01
 - 14 E1
 - 15 S2
 - 16 SP2
 - 17 NE-
 - 18 G-
 - 19 L
 - 20 IDL
 - 21 ~
 - 22 ~
 - 23 EGR
 - 24 ~
 - 25 ~
 - 26 E02
- 22 pin plug**
- 1 BATT
 - 2 ELS
 - 3 ~
 - 4 STP
 - 5 W
 - 6 ~
 - 7 OD2
 - 8 ~
 - 9 SPD
 - 10 AC1
 - 11 STA
 - 12 +B
 - 13 ~
 - 14 FC
 - 15 ~
 - 16 ~
 - 17 ~
 - 18 ~
 - 19 ~
 - 20 OD1
 - 21 ACT
 - 22 NSW

- 16 pin plug**
- 1 VCC
 - 2 PIM
 - 3 THA
 - 4 THW
 - 5 ~
 - 6 OX
 - 7 DG
 - 8 VF
 - 9 E2
 - 10 THG
 - 11 VTA
 - 12 IDL
 - 13 ~
 - 14 ~
 - 15 T
 - 16 ~