

TERMINALS OF ECU

Connectors of the engine & ECT ECU are water-proof and are the bolt type.

For water proof type connectors, in order to measure the voltage of ECU terminals and the resistance of connected parts, connect the inspection sub wire harness between the ECU and vehicle wire harness, then perform the inspection. The inspection method of inserting a tester probe from the other side of connector noticeably reduces the water-proof ability.

Disconnect the connector by fully loosening the bolt.

PREPARATION

1. Turn the ignition switch to LOCK position.
2. Turn up the passenger side floor mat.
3. Remove the ECU protector.
4. Disconnect the connector from the ECU.

After completely loosening the bolt, the two parts of the connector can be separated.

NOTICE:

- Do not pull the wire harness when disconnecting the connector.
- When disconnecting the connector, the ECU's backup power source is cut off, so the malfunction codes, etc. recorded in the ECU memory are cancelled.
- Never insert a tester probe or male terminal used for inspection purposes into the female terminal of the vehicle wire harness. Otherwise, the female terminal may be widened, which can result in faulty connection.

5. Connect the Check Harness A between ECU and connector of vehicle wire harness.

SST 09990-01000

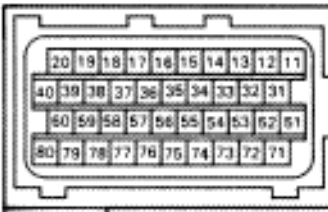
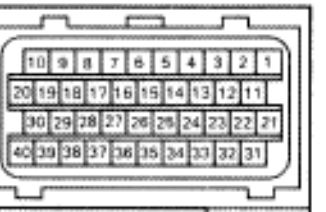
HINT: The arrangement of the check connector terminals are the same as those of the ECU.

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6. Disconnect the Check Harness A.
7. Reconnect the connector to the ECU.
 - (a) Match the male connector correctly with the female connector, then press them together.
 - (b) Tighten the bolt

Make sure the connector is completely connected, by tightening the bolt until there is a clearance of less than 1 mm (0.04 in.) between bottom of the male connector and end of the female connector.
8. Install the ECU protector and floor mat.

TERMINALS OF ECU

ECU Terminals			E10 (B)			E9 (A)		
								
R6460								
Terminal No.	Symbol	Connection	Terminal No.	Symbol	Connection			
E9 – 1	IGSW	Ignition switch	E9 – 31	+ B	EFI main relay			
2	SPD	Speed sensor No. 1	32	+ B1	EFI main relay			
3	KD	Kick-down switch	33	BATT	Battery			
4	STP	Stop light switch	34	A/C	A/C control assembly			
5	—	—	35	—	—			
6	W	"CHECK" engine warning light	36	—	—			
7	R	Neutral start switch	37	TR	TRAC ECU			
8	—	—	38	NEO	TRAC ECU			
9	2	Neutral start switch	39	VT02	TRAC ECU			
10	L	Neutral start switch	40	VT01	TRAC ECU			
11	AD	Cruise control ECU	E10 – 1	NCO ⊖	T/M input speed sensor			
12	OD1	Cruise control ECU	2	—	—			
13	—	—	3	SP2 ⊖	Speed sensor No. 2 (for ECT)			
14	—	—	4	E11	ECU ground			
15	—	—	5	G2 ⊖	Cam position sensor			
16	—	—	6	G1 ⊖	Cam position sensor			
17	TT	TDCL	7	NE ⊖	Engine speed sensor			
18	P	ECT pattern select switch	8	—	—			
19	TE2	Check connector	9	S2	ECT solenoid			
20	TE1	Check connector	10	S1	ECT solenoid			
21	DI	Fuel pump ECU	11	—	—			
22	FPC	Fuel pump ECU	12	—	—			
23	ACMG	A/C magnet clutch relay	13	SLN ⊖	ECT solenoid No. 4			
24	M-REL	EFI main relay	14	SLU ⊖	ECT solenoid No. 3			
25	—	—	15	—	—			
26	—	—	16	—	—			
27	—	—	17	# 40	Injectors (No. 3 and No. 5)			
28	OD2	O/D main switch	18	# 30	Injectors (No. 4 and No. 6)			
29	—	—	19	# 20	Injectors (No. 2 and No. 8)			
30	—	—	20	# 10	Injectors (No. 1 and No. 7)			

TERMINALS OF ECU (Cont'd)

ECU Terminals

E10 (B)

E9 (A)

F16460

Terminal No.	Symbol	Connection	Terminal No.	Symbol	Connection
E10 – 21	NCO	T/M input speed sensor	E10 – 51	—	—
22	—	—	52	HTL2	Sub-oxygen sensor heater (on left bank)
23	SP2	Speed sensor No. 2 (for ECT)	53	HTR2	Sub-oxygen sensor heater (on right bank)
24	—	—	54	—	—
25	G2	No. 2 cam position sensor	55	—	—
26	G1	No. 1 cam position sensor	56	IGT2	No. 2 igniter
27	NE	Engine speed sensor	57	IGT1	No. 1 igniter
28	VF2	Check connector	58	IGF1	No. 1 igniter
29	VF1	Check connector	59	IGF2	No. 2 igniter
30	—	—	60	—	—
31	—	—	61	—	—
32	ISC4	ISC valve	62	—	—
33	ISC3	ISC valve	63	IDL2	Sub-throttle position sensor
34	ISC2	ISC valve	64	IDL1	Throttle position sensor
35	ISC1	ISC valve	65	E2	Sensor ground
36	EGR4*	EGR valve	66	KS	Air flow meter
37	EGR3*	EGR valve	67	OXR2	Sub-oxygen sensor (on right bank)
38	EGR2*	EGR valve	68	OXL2	Sub-oxygen sensor (on left bank)
39	EGR1	EGR valve (or VSV)	69	E1	ECU ground
40	—	—	70	—	—
41	VC	Throttle position sensor. Air flow meter.	71	HTL1	Main oxygen sensor heater (on left bank)
42	VTA2	Sub-throttle position sensor	72	HTR1	Main oxygen sensor heater (on right bank)
43	VTA1	Throttle position sensor	73	FPU	Fuel pressure up VSV
44	THW	Water temp. sensor	74	PAG	EVAP purge VSV
45	THA	Intake air temp. sensor	75	—	—
46	THG*	EGR gas temp. sensor	76	NSW	Neutral start switch
47	OXR1	Main oxygen sensor (on right bank)	77	STA	Starter relay
48	OXL1	Main oxygen sensor (on left bank)	78	STJ	Cold start injector
49	KNK2	No. 2 knock sensor	79	EO2	Power ground
50	KNK1	No. 1 knock sensor	80	EO1	Power ground