

# Hino J05d/J08e Engine ECU Fault Codes List

## Diagnostics Trouble Codes

P-Code	DST-1 Display	Remarks	Description
P0045	VNT Malfunction	For the VNT.	The VNT actuator has a malfunction.
P0049	Turbo Charger Turbine Over speed	The turbine rotation sensor has been detected.	Over speed of the turbo has been detected.
P0088	Common Rail Pressure -Too high		High fuel pressure has been detected.
P0093	Fuel System Leak Detected	The pump does not work properly. (Fuel leak)	There is a possibility of the fuel leakage. Perform the fuel leakage check.
P0102	Mass Air Flow Sensor Malfunction (LO)		"The mass air flow sensor has a malfunction. There are possibilities of the sensor malfunction, open and short circuit to ground in the harness."
P0103	Mass Air Flow Sensor Malfunction (HI)		The mass air flow sensor has a malfunction. There are possibilities of the sensor malfunction and short circuit to +B in the harness.
P0108	Boost Pressure Sensor Malfunction (HI)		The boost pressure cannot be detected properly. There are possibilities of the sensor malfunction and short circuit in the harness.
P0112	Intake Air Temperature Sensor Malfunction (LO)	Integrated in the mass air flow sensor.	"The temperature cannot be detected properly. There are possibilities of the sensor malfunction, short circuit to ground in the harness."
P0113	Intake Air Temperature Sensor Malfunction (HI)	Integrated in the mass air flow sensor.	"The temperature cannot be detected properly. There are possibilities of the sensor malfunction, open and short circuit to +B in the harness."
P0117	Engine Coolant Temperature Sensor Malfunction (LO)		The temperature cannot be detected properly. There are possibilities of the sensor malfunction and short circuit to ground in the harness.
P0118	Engine Coolant Temperature Sensor Malfunction (HI)		"The temperature cannot be detected properly. There are possibilities of the sensor malfunction, open and short circuit to +B in the harness."

P-Code	DST-1 Display	Remarks	Description
P0182	Fuel Temperature Sensor Malfunction (LO)	Integrated in the supply pump.	"The temperature cannot be detected properly. There are possibilities of the sensor malfunction, short circuit to ground in the harness."
P0183	Fuel Temperature Sensor Malfunction (HI)	Integrated in the supply pump.	"The temperature cannot be detected properly. There are possibilities of the sensor malfunction, open and short circuit to +B in the harness."
P0191	Rail Pressure Sensor Malfunction	Characteristic malfunction	The rail pressure cannot be detected properly. There is a possibility of the sensor malfunction.
P0192	Rail Pressure Sensor Malfunction (LO)		The rail pressure cannot be detected properly. There are possibilities of the sensor malfunction and short circuit to ground in the harness.
P0193	Rail Pressure Sensor Malfunction (HI)		"The rail pressure cannot be detected properly. There are possibilities of the sensor malfunction, open and short circuit to +B in the harness."
P0200	ECU Charge Circuit Malfunction (HI)		The voltage for the injector activation is too high. Replace the ECU.
P0201	Injector 1 Open Circuit		There is a possibility of the Injector 1 malfunction or open circuit in the harness.
P0202	Injector 2 Open Circuit		There is a possibility of the Injector 2 malfunction or open circuit in the harness.
P0203	Injector 3 Open Circuit		There is a possibility of the Injector 3 malfunction or open circuit in the harness.
P0204	Injector 4 Open Circuit		There is a possibility of the Injector 4 malfunction or open circuit in the harness.
P0205	Injector 5 Open Circuit		There is a possibility of the Injector 5 malfunction or open circuit in the harness.
P0206	Injector 6 Open Circuit		There is a possibility of the Injector 6 malfunction or open circuit in the harness.
P0217	Over Temperature Condition		The over temperature condition has been detected. Check the cooling system.
P0219	Engine Over speed Condition		The engine speed exceeded the rated value.
P0234	Turbo Charger Overboost Condition		The boost pressure is too higher than the specified value.
P0237	Boost Pressure Sensor Malfunction (LO)		"The intake air pressure cannot be detected properly. There are possibilities of the sensor malfunction, open and short circuit in the harness."
P0263	Correction Error Between Cylinders #1		The rotation fluctuation in the cylinder 1 became bigger than other cylinders. There is a possibility that the flow damper is operating.

P0266	Correction Error Between Cylinders #2		The rotation fluctuation in the cylinder 2 became bigger than other cylinders. There is a possibility that the flow damper is operating.
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P-Code	DST-1 Display	Remarks	Description
P0269	Correction Error Between Cylinders #3		The rotation fluctuation in the cylinder 3 became bigger than other cylinders. There is a possibility that the flow damper is operating.
P0272	Correction Error Between Cylinders #4		The rotation fluctuation in the cylinder 4 became bigger than other cylinders. There is a possibility that the flow damper is operating.
P0275	Correction Error Between Cylinders #5		The rotation fluctuation in the cylinder 5 became bigger than other cylinders. There is a possibility that the flow damper is operating.
P0278	Correction Error Between Cylinders #6		The rotation fluctuation in the cylinder 6 became bigger than other cylinders. There is a possibility that the flow damper is operating.
P0335	Crankshaft Position Sensor Malfunction	"In case that the NE and G sensor have malfunctions, this P code will be output."	The pulse from the crankshaft position sensor cannot be detected. There are possibilities of the sensor and harness malfunctions.
P0340	Engine Speed Sensor Malfunction		The pulse from the engine speed sensor cannot be detected. There are possibilities of the sensor and harness malfunctions.
P0404	EGR Valve 1 Clogged	Clogging has been detected by the lift sensor.	The EGR valve 1 is clogged in the open state.
P0405	EGR Lift Sensor 1 Malfunction (LO)		"The EGR lift sensor 1 has a malfunction. There are possibilities of the sensor malfunction, open and short circuit to ground in the harness."
P0406	EGR Lift Sensor 1 Malfunction (HI)		The EGR lift sensor 1 has a malfunction. There are possibilities of the sensor malfunction and short circuit to +B in the harness.
P0407	EGR Lift Sensor 2 Malfunction (LO)		"The EGR lift sensor 2 has a malfunction. There are possibilities of the sensor malfunction, open and short circuit to ground in the harness."
P0408	EGR Lift Sensor 2 Malfunction (HI)		The EGR lift sensor 2 has a malfunction. There are possibilities of the sensor malfunction and short circuit to +B in the harness.
P0489	EGR Solenoid Valve 1 Malfunction		"The EGR solenoid valve 1 has a malfunction. There are possibilities of the solenoid valve malfunction, open and short circuit to ground in the harness."

P0490	EGR Solenoid Valve 1 Malfunction		The EGR solenoid valve 1 has a malfunction. There are possibilities of the solenoid valve malfunction and short circuit to +B in the harness.
P0500	Vehicle Speed Sensor Malfunction (LO)	Open circuit	The pulse from the vehicle speed sensor cannot be detected . There are possibilities of the sensor and harness malfunctions.
<b>P-Code</b>	<b>DST-1 Display</b>	<b>Remarks</b>	<b>Description</b>
P0501	Vehicle Speed Sensor Malfunction (HI)	Noise	The pulse from the vehicle speed sensor has an error. There are possibilities of the sensor and harness malfunctions.
P0510	Idle Switch Malfunction		The idle switch does not function properly. Monitor the state and check the ON/OFF judgment.
P0524	Engine Oil Pressure Too Low		The engine oil pressure became too low.
P1401	EGR Valve Clogged	Clogging has been detected by the lift sensor.	The EGR valve 2 system is clogged in the open state.
P0540	Preheating System Malfunction		The intake heater relay has a malfunction. There are possibilities of the relay and harness malfunctions.
P0545	Exhaust Gas Temperature Sensor 1 Malfunction (LO)		The temperature cannot be detected properly. There are possibilities of the sensor malfunction and short circuit to ground in the harness.
P0546	Exhaust Gas Temperature Sensor 1 Malfunction (HI)		"The temperature cannot be detected properly. There are possibilities of the sensor malfunction, open and short circuit to +B in the harness."
P0605	Flash ROM Malfunction		There is an internal malfunction in the ECU. Replace the ECU.
P0606	CPU Malfunction (Hardware Detected)		There is an internal malfunction in the ECU. Replace the ECU.
P0607	CPU Monitoring ID Malfunction		There is an internal malfunction in the ECU. Replace the ECU.
P0611	ECU Charge Circuit Malfunction		The voltage for the injector activation is too low. Replace the ECU.
P0617	Starter Switch Malfunction		There is a short in the starter switch circuit. Monitor the state and check the ON/OFF judgment.
P0686	Main Relay Malfunction		The main relay cannot be turned OFF. Check the relay.
P0704	Clutch Switch Malfunction		The clutch switch cannot be detected properly. Monitor the state and check the ON/OFF judgment.
P0850	Neutral Switch Malfunction		The neutral switch cannot be detected properly. Monitor the state and check the ON/OFF judgment.

P1132 Accelerator Position  
Sensor for Operation  
(LO)

The accelerator position sensor for operation cannot be detected properly.  
Check the sensor voltage.  
There are possibilities of open and short circuit to ground.

P1133 Accelerator Position  
Sensor for Operation  
(HI)

The accelerator position sensor for operation cannot be detected properly.  
Check the sensor voltage.  
There is a possibility of short circuit to +B.

P-Code	DST-1 Display	Remarks	Description
P1142	Idle Volume (LO)		The idle volume cannot be detected properly. Check the sensor voltage. There are possibilities of open and short circuit to ground.
P1143	Idle Volume (HI)		The idle volume cannot be detected properly. Check the sensor voltage. There is a possibility of short circuit to +B.
P1211	Injector Common 1 Malfunction		There is a possibility of short circuit to ground. Check the injector and wiring.
P1212	Injector Common 1 Malfunction		There is a possibility of open or short circuit to +B. Check the injector and wiring.
P1214	Injector Common 2 Malfunction		There is a possibility of short circuit to ground. Check the injector and wiring.
P1215	Injector Common 2 Malfunction		There is a possibility of open or short circuit to +B. Check the injector and wiring.
P1427	Exhaust Pressure Sensor Malfunction (LO)		"The exhaust pressure cannot be detected properly. There are possibilities of the sensor malfunction, open and short circuit to ground in the harness."
P1428	Exhaust Pressure Sensor Malfunction (HI)		The exhaust pressure cannot be detected properly. There are possibilities of the sensor malfunction and short circuit to +B in the harness.
P1472	Transmission Retarder Relay Malfunction	Transmission retarder relay linked with the cruise control system for the large- and medium-size vehicles	"The transmission retarder relay has a malfunction. There are possibilities of the relay malfunction, open and short circuit to ground in the harness."
P1473	Transmission Retarder Relay Malfunction	Transmission retarder relay linked with the cruise control system for the large- and medium-size vehicles	The transmission retarder relay has a malfunction. There are possibilities of the relay malfunction and short circuit to +B in the harness.

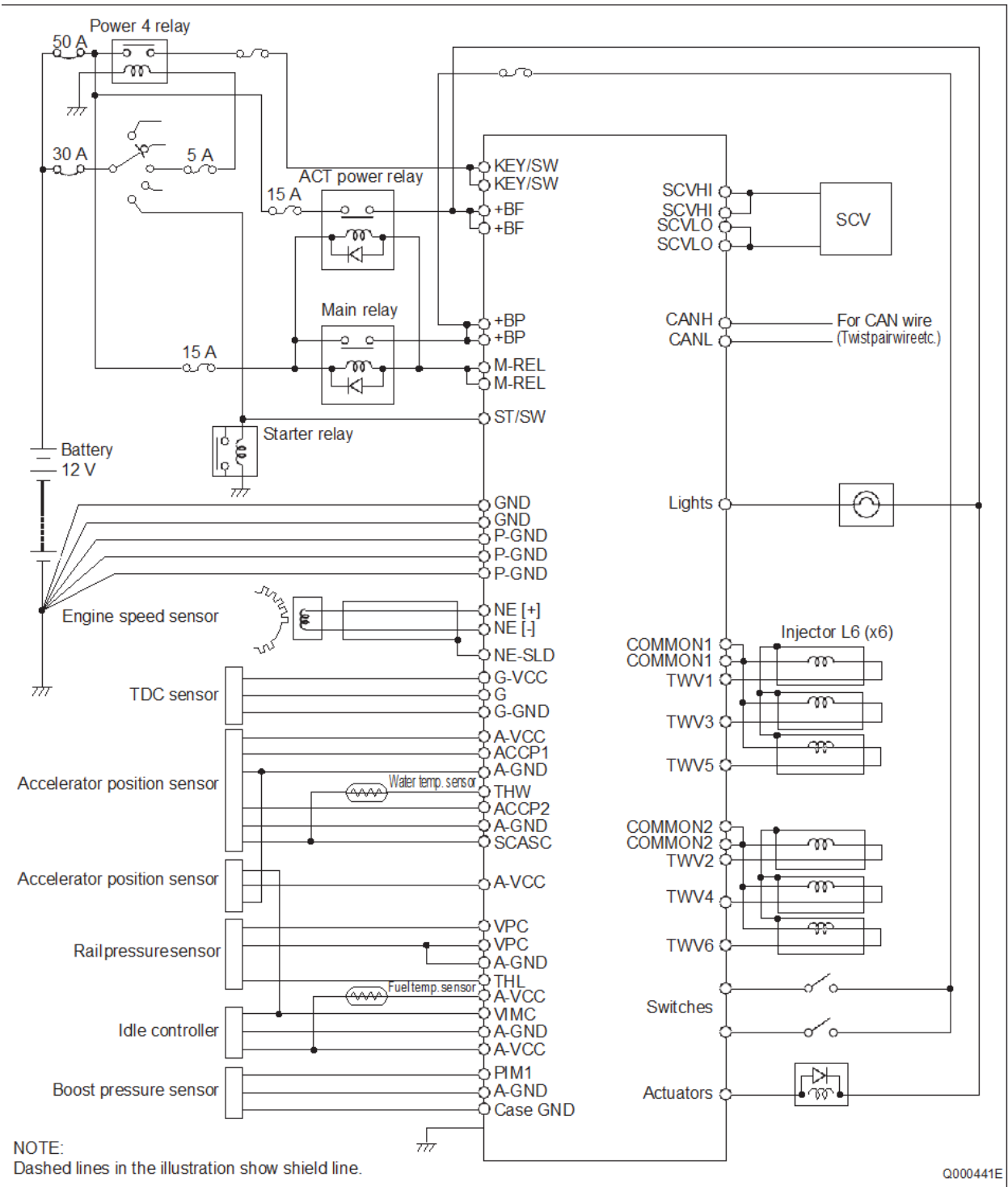
P1477	Cruise Control Retarder Relay Malfunction	Transmission retarder relay linked with the cruise control system for the medium-size vehicle	"The cruise control retarder relay has a malfunction. There are possibilities of the relay malfunction, open and short circuit to ground in the harness."
P1478	Cruise Control Retarder Relay Malfunction	Transmission retarder relay linked with the cruise control system for the medium-size vehicle	The cruise control retarder relay has a malfunction. There are possibilities of the relay malfunction and short circuit to +B in the harness.
P1530	Engine Stop Switch Close Malfunction		The engine stop switch has a malfunction or there is short circuit in the wiring. Monitor the state and check the ON/OFF judgment.
P1565	Cruise Control Switch Malfunction		The cruise control switch has a malfunction and remains ON. Monitor the state and check the ON/OFF judgment.
P1601	QR Code Error		The QR code has an error. Check the QR code.

P-Code	DST-1 Display	Remarks	Description
P1681	Exhaust Brake Solenoid Valve Malfunction		"The exhaust brake solenoid valve has a malfunction. There are possibilities of the solenoid valve malfunction, open and short circuit to ground in the harness."
P1682	Exhaust Brake Solenoid Valve Malfunction		The exhaust brake solenoid valve has a malfunction. There are possibilities of the solenoid valve malfunction and short circuit to +B in the harness.
P2002	DPR System Malfunction		The DPR system has a malfunction. There are possibilities of the melt down and clogging. Perform the DPR system check.
P2032	Exhaust Gas Temperature Sensor 2 Malfunction (LO)		The temperature cannot be detected properly. There are possibilities of the sensor malfunction and short circuit to ground in the harness.
P2033	Exhaust Gas Temperature Sensor 2 Malfunction (HI)		"The temperature cannot be detected properly. There are possibilities of the sensor malfunction, open and short circuit to +B in the harness."
P2120	Accelerator Position Sensor 1&2 Malfunction		Both the accelerator sensor 1 and 2 have malfunctions. There are possibilities of the sensor and harness malfunctions.
P2121	Accelerator Position Sensor 1 Malfunction		The accelerator position sensor 1 cannot be detected properly. Check the sensor voltage.
P2122	Accelerator Position Sensor 1 Malfunction (LO)		The accelerator position sensor 1 cannot be detected properly. Check the sensor voltage.
P2123	Accelerator Position Sensor 1 Malfunction (HI)		The accelerator position sensor 1 cannot be detected properly. Check the sensor voltage. There is a possibility of short circuit to +B.
P2126	Accelerator Position Sensor 2 Malfunction		The accelerator position sensor 2 cannot be detected properly. Check the sensor voltage.

P2127	Accelerator Position Sensor 2 Malfunction (LO)		The accelerator position sensor 2 cannot be detected properly. Check the sensor voltage. There are possibilities of open and short circuit to ground.
P2128	Accelerator Position Sensor 2 Malfunction (HI)		The accelerator position sensor 2 cannot be detected properly. Check the sensor voltage. There is possibility of short circuit to +B.
P2228	Atmospheric Air Pressure Sensor Malfunction (LO)		"The atmosphere pressure sensor (in ECU) has a malfunction. If the malfunction occurs frequently, it is necessary to repair or replace the ECU."
P2229	Atmospheric Air Pressure Sensor Malfunction (HI)		"The atmosphere pressure sensor (in ECU) has a malfunction. If the malfunction occurs frequently, it is necessary to repair or replace the ECU."
U0073	CAN Communication Malfunction (Engine)	For middle-sized VNT	There is a malfunction of communication with the VNT.
U0101	Lost Communication (Transmission)	Communication error between pro-shift and AT-ECU	Communication with the transmission ECU is lost.
U0104	Lost Communication (Cruise control)		Communication with the auto cruise ECU is lost.
<b>P-Code</b>	<b>DST-1 Display</b>	<b>Remarks</b>	<b>Description</b>
U0121	Lost Communication (ABS)		Communication with the ABS ECU is lost.
U0132	Lost Communication (Air suspension)		Communication with the air suspension ECU is lost.
U0155	Lost Communication (Meter)		Communication with the meter ECU is lost.
U1001	CAN Communication error (Vehicle)	CAN communication bus OFF judgment	There is a malfunction of communication with other computers equipped in vehicle.
TBD	EGR Solenoid 1 Malfunction	When linear solenoid specific P code is obtained	"The EGR solenoid 1 has a malfunction. There are possibilities of solenoid valve malfunction, open and short circuit to ground in the harness."
TBD	EGR Solenoid 1 Malfunction	When linear solenoid specific P code is obtained	The EGR solenoid 1 has a malfunction. There are possibilities of solenoid valve malfunction and short circuit to +B in the harness.
TBD	EGR Solenoid 2 Malfunction	When linear solenoid specific P code is obtained	"The EGR solenoid 2 has a malfunction. There are possibilities of solenoid valve malfunction, open and short circuit to ground in the harness."
TBD	EGR Solenoid 2 Malfunction	When linear solenoid specific P code is obtained	The EGR solenoid 2 has a malfunction. There are possibilities of solenoid valve malfunction and short circuit to +B in the harness.

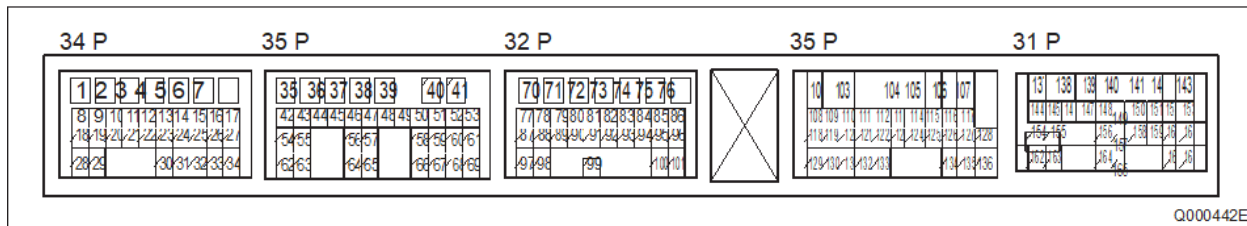
## ECU External Wiring Diagram





# ECU Connector Diagram

## ECU Connector Terminal Layout



## Terminal Connections

No.	Pin Symbol	Connections	No.	Pin Symbol	Connections
1	(GND)	ECU ground (spare)	18	(CASE GND)	Case ground (spare)
2	(GND)	ECU ground (spare)	19	KWP2000	ISO9141-K
3	IN3	spare	20	IN1	—
4	IN3-	spare	21	AD1	Accelerator position sensor 1
5	+B	Power	22	AD2	Accelerator position sensor 2
6	+B	Power	23	AD10	Accelerator position sensor for operation
7	+B	Power	24	AD12	spare
8	TAC1	spare	25	AD19	spare
9	TAC2	Tachometer signal (SINK)	26	AD20	spare
10	POUT1	spare	27	VS1	Vehicle speed sensor
11	POUT2	spare	28	CASE GND	Case ground
12	POUT3	spare	29	IN2	—
13	POUT4	spare	30	AD14	IMC volume
14	PIN1	spare	31	AD15	spare
15	PIN2	spare	32	AD16	Intake air temp. sensor (Build-in Airflow meter)
16	—	—	33	AD17	spare
17	(BATT)	—	34	AD18	spare
35	+BF	+BF	53	SW7	Brake switch
36	OUT5	Exhaust brake solenoid valve	54	A-GND4	Sensor ground 4
37	OUT6	spare	55	A-GND5	Sensor ground 5
38	OUT7	spare	56	SW1	Key switch
39	NE-SLD	Engine RPM shield ground	57	A-VCC4	Sensor (Power supply) 4
40	NE+	Engine RPM +	58	SW8	Accelerator pedal switch
41	NE-	Engine RPM -	59	SW10	spare
42	OUT1	spare	60	SW12	Constant-speed switch
43	OUT2	spare	61	SW17	Stop lamp switch
44	OUT3	Exhaust brake light	62	AD21	spare
45	OUT4	Glow indicator light	63	AD22	EGR valve lift sensor 2
46	SW1	Key switch	64	—	—
47	OUT8	spare	65	A-VCC5	Sensor (Power supply) 5
48	SW2	Starter switch	66	SW9	Neutral switch
49	SW3	Exhaust brake switch	67	SW11	spare

50	SW4	spare	68	SW16	Diag. switch
51	SW5	spare	69	SW18	spare
52	SW6	spare			

No.	Pin Symbol	Connections	No.	Pin Symbol	Connections
70	OUT19	Glow relay	86	—	—
71	OUT20	Glow relay	87	SW31	AT identification signal
72	GND	ECU ground	88	SW20	PTO2 switch
73	GND	ECU ground	89	SW21	PTO switch
74	OUT17	ECU main relay	90	SW25	spare
75	OUT18	ECU main relay	91	SW26	spare
76	+BF	+BF	92	SW13	Cruise switch 1
77	SW27	Clutch switch	93	SW28	Clutch stroke switch
78	SW	spare	94	SW29	spare
79	SW	Cruise switch 2	95	CANH	CAN2 HI
80	SW	Stop lamp switch 2	96	CANL	CAN2 LOW
81	SW	spare	97	SW32	Hydraulic pressure switch
82	S-OUT1	Check engine light 1	98	SW22	Warm-up switch
83	S-OUT2	spare	99	SW23	spare
84	S-OUT3	spare	100	SW30	spare
85	S-OUT4	spare	101	CAN-SLD	CAN2 Shield ground
102	P-GND	Power ground	120	G	Cam angle
103	TWV1	Injector drive signal 1	121	AD4	Rail pressure sensor 1
104	TWV3	Injector drive signal 3	122	AD11	Airflow meter
105	TWV5	Injector drive signal 5	123	A-VCC3	Sensor (Power supply) 3
106	COMMON1	Injector drive power 1	124	NE-VCC	spare
107	COMMON1	Injector drive power 1	125	A-VCC2	Sensor (Power supply) 2
108	OUT9	EGR linear solenoid drive 1	126	A-VCC1	Sensor (Power supply) 1
109	OUT10	EGR linear solenoid drive 2	127	AD13	EGR valve lift sensor 1
110	OUT11	spare	128	AD3	Boost pressure sensor
111	OUT12	spare	129	(GND)	ECU ground (spare)
112	OUT13	Cruise lamp	130	(GND)	ECU ground (spare)
113	OUT14	Constant-speed lamp	131	G-GND	CAM angle ground
114	OUT15	spare	132	AD5	Rail pressure sensor 2
115	OUT16	spare	133	G-VCC	Cam angle VCC (5V)
116	—	—	134	A-GND1	Sensor ground 1
117	—	—	135	A-GND2	Sensor ground 2
118	A-GND6	Airflow ground	136	A-GND3	Sensor ground 3
119	NE (MRE)				

No.	Pin Symbol	Connections	No.	Pin Symbol	Connections
137	TWV2	Injector drive signal 2	153	PCV1	spare
138	TWV4	Injector drive signal 4	154	AD6	spare
139	TWV6	Injector drive signal 6	155	AD7	Water temp. sensor
140	P-GND	Power ground	156	—	—
141	P-GND	Power ground	157	CAN1H	CAN1 HI
142	COMMON2	Injector drive power 2	158	CAN1L	CAN1 LOW
143	COMMON2	Injector drive power 2	159	—	—
144	SCVLO	HP 3 or 4 pump control valve drive signal	160	—	—
145	SCVLO	HP 3 or 4 pump control valve drive signal	161	(CASE GND)	Case ground (spare)
146	SCVHI	HP 3 or 4 pump control valve power	162	AD8	spare
147	SCVHI	HP 3 or 4 pump control valve power	163	AD9	Fuel temp. sensor 2
148	—	—	164	—	—
149	—	—	165	CAN1-SLD	spare
150	PCV2	spare	166	—	—
151	PCV2	spare	167	(CASE GND)	Case ground (spare)
152	PCV1	spare			
Built-in	PATM	Atmospheric air pressure sensor			