

# Component Procedures: Engine Control Module

## Table of Contents

1. Parts and Labor (itype\_189)
2. Components (itype\_392)
3. Connector Views (itype\_47)
4. Wiring Diagrams (Article 2083870)
5. Components (itype\_32)
6. Procedures (itype\_376)
7. Mechanical (including Torque) (itype\_28)
8. All Technical Service Bulletins (itype\_100)
9. Repair Tips (itype\_110)

# Component Procedures: Engine Control Module

## Parts and Labor (itype\_189)

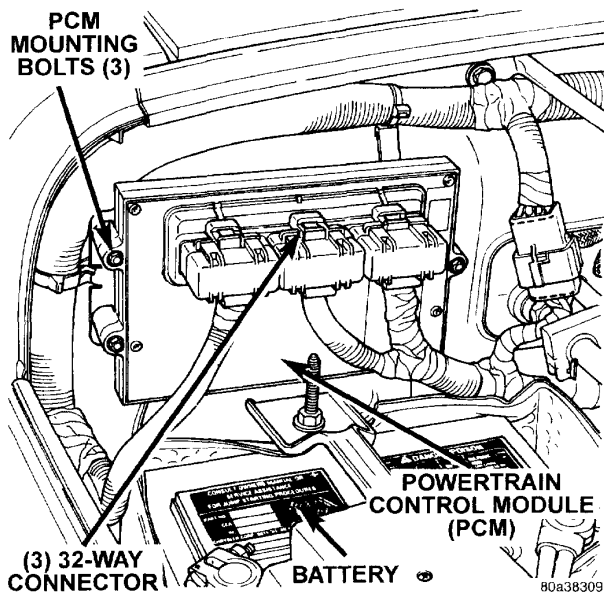
### Parts

Qualifier	Part #	Name	Price	Note
ECM > Manual Trans	R6041618AF	Ecm	0.00	Order By Description.
ECM > Auto Trans	56041621AE	Ecm	684.00	Order By Description.

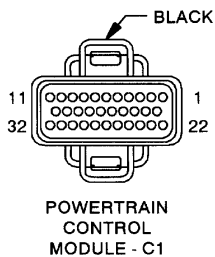
### Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Replace	ECM	B	0.4	0.3

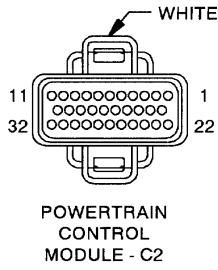
## Components (itype\_392)



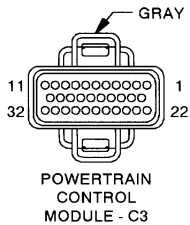
## Connector Views (itype\_47)



POWERTRAIN CONTROL MODULE C1 - BLACK 32 WAY		
CAV	CIRCUIT	FUNCTION
A1	-	-
A2	F15 18DB	FUSED IGNITION SWITCH OUTPUT (ST-RUN)
A3	-	-
A4	K167 18BR/YL	SENSOR GROUND
A5	-	-
A6	T41 18BR/LB	PARK/NEUTRAL POSITION SWITCH SENSE
A7	K19 18GY	IGNITION COIL NO. 1 DRIVER
A8	K24 18GY/BK	CRANKSHAFT POSITION SENSOR SIGNAL
A9	-	-
A10	K60 18YL/BK	IDLE AIR CONTROL NO. 2 DRIVER
A11	K40 18BR/WT	IDLE AIR CONTROL NO. 3 DRIVER
A12	K10 18DB/BR (2.5L)	POWER STEERING PRESSURE SWITCH SENSE
A13	-	-
A14	-	-
A15	K21 18BK/RD	INTAKE AIR TEMPERATURE SENSOR SIGNAL
A16	K2 18TN/BK	ENGINE COOLANT TEMPERATURE SENSOR SIGNAL
A17	K7 18OR	5V SUPPLY
A18	K44 18TN/YL	CAMSHAFT POSITION SENSOR SIGNAL
A19	K39 18GY/RD	IDLE AIR CONTROL NO. 1 DRIVER
A20	K59 18VT/BK	IDLE AIR CONTROL NO. 4 DRIVER
A21	-	-
A22	A14 14RD/WT	FUSED B(+)
A23	K22 18OR/DB	THROTTLE POSITION SENSOR SIGNAL
A24	K41 18BK/DG	OXYGEN SENSOR 1/1 SIGNAL
A25	K141 18TN/WT	OXYGEN SENSOR 1/2 SIGNAL
A26	-	-
A27	K1 18DG/RD	MANIFOLD ABSOLUTE PRESSURE SENSOR SIGNAL
A28	-	-
A29	-	-
A30	-	-
A31	Z12 14BK/TN	GROUND
A32	Z12 14BK/TN	GROUND



POWERTRAIN CONTROL MODULE C2 - WHITE 32 WAY		
CAV	CIRCUIT	FUNCTION
B1	-	-
B2	-	-
B3	-	-
B4	K11 18WT/DB	FUEL INJECTOR NO. 1 DRIVER
B5	K13 18YL/WT	FUEL INJECTOR NO. 3 DRIVER
B6	K15 18PK/BK (4.0L)	FUEL INJECTOR NO. 5 DRIVER
B7	-	-
B8	-	-
B9	-	-
B10	K20 18DG	GENERATOR FIELD DRIVER (+)
B11	T23 18OR/LG	TRANSMISSION LOW/OVERDRIVE SOLENOID
B12	K16 18LG/BK (4.0L)	FUEL INJECTOR NO. 6 DRIVER
B13	-	-
B14	-	-
B15	K12 18TN	FUEL INJECTOR NO. 2 DRIVER
B16	K14 18LB/BR	FUEL INJECTOR NO. 4 DRIVER
B17	-	-
B18	-	-
B19	-	-
B20	-	-
B21	-	-
B22	-	-
B23	G60 18GYY/YL	ENGINE OIL PRESSURE SENSOR SIGNAL
B24	-	-
B25	-	-
B26	-	-
B27	G7 18WT/OR	VEHICLE SPEED SENSOR SIGNAL
B28	-	-
B29	-	-
B30	-	-
B31	K6 18VT/OR	5V SUPPLY
B32	-	-



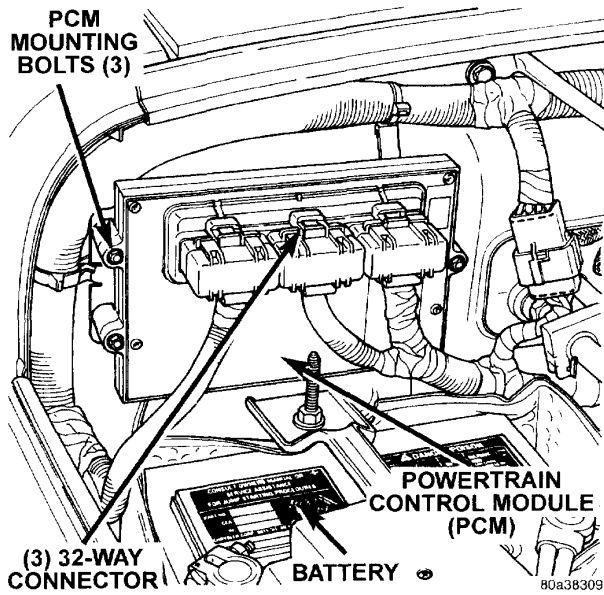
POWERTRAIN CONTROL MODULE C3 - GRAY 32 WAY		
CAV	CIRCUIT	FUNCTION
C1	C13 18DB/OR	A/C COMPRESSOR CLUTCH RELAY CONTROL
C2	-	-
C3	K51 18DB/YL	AUTOMATIC SHUT DOWN RELAY CONTROL
C4	V96 18TN/RD (SPEED CONTROL)	SPEED CONTROL VACUUM SOLENOID CONTROL
C5	V35 18LG/RD (SPEED CONTROL)	SPEED CONTROL VENT SOLENOID CONTROL
C6	-	-
C7	-	-
C8	-	-
C9	-	-
C10	K106 18WT/DG (LEAK DETECTION)	LEAK DETECTION PUMP SOLENOID CONTROL
C11	V32 18YL/RD (SPEED CONTROL)	SPEED CONTROL ON/OFF SWITCH SENSE
C12	A142 14DG/PK	AUTOMATIC SHUT DOWN RELAY OUTPUT SENSE
C13	-	-
C14	K105 18WT/OR (LEAK DETECTION)	LEAK DETECTION PUMP SWITCH SENSE
C15	K118 18PK/YL	BATTERY TEMPERATURE SENSOR SIGNAL
C16	-	-
C17	-	-
C18	-	-
C19	K31 18BR	FUEL PUMP RELAY CONTROL
C20	K52 18PK/BK	DUTY CYCLE EVAP/PURGE SOLENOID CONTROL
C21	-	-
C22	C22 18DB/WT	A/C SWITCH SENSE
C23	C90 18LG	A/C SELECT INPUT
C24	K29 18WT/PK	BRAKE SWITCH SENSE
C25	K72 18DG/OR	VOLTAGE REGULATOR SIGNAL
C26	K226 18DB/LG	FUEL LEVEL SENSOR SIGNAL
C27	D21 18PK	SGI TRANSMIT/ISO 9141K
C28	D2 18WT/BK	CCD BUS(-)
C29	D20 18LG	SGI RECEIVE
C30	D1 18VT/BR	CCD BUS(+)
C31	-	-
C32	V37 18RD/LG (SPEED CONTROL)	SPEED CONTROL SWITCH SIGNAL

## Wiring Diagrams (Article 2083870)

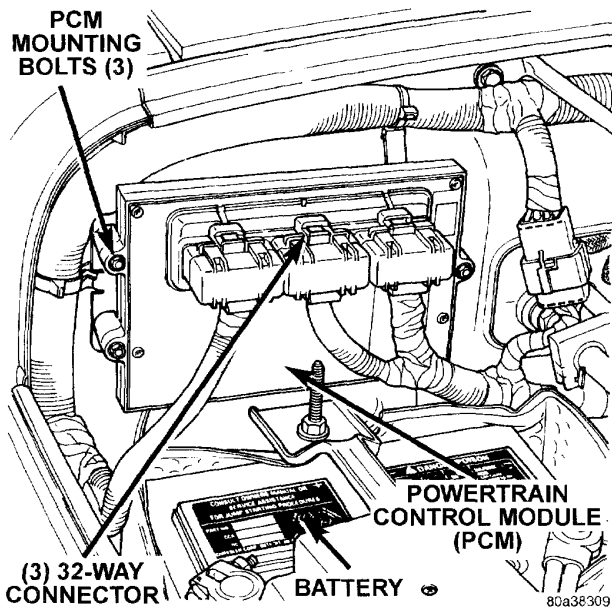
For information regarding diagrams for this system, please refer to Powertrain Management diagrams.

See: Powertrain Management > Diagrams

## Components (itype\_32)



### Procedures (itype\_376)



### Mechanical (including Torque) (itype\_28)

PCM mounting bolts 4 Nm

### All Technical Service Bulletins (itype\_100)

Tsbs

- Engine Control - PCM Initialization Procedure (08-030-06A, 2006/08/25)

### Repair Tips (itype\_110)

Tsbs

- Engine Control - PCM Initialization Procedure (08-030-06A, 2006/08/25)