

# INSTRUMENT PANEL SYSTEMS

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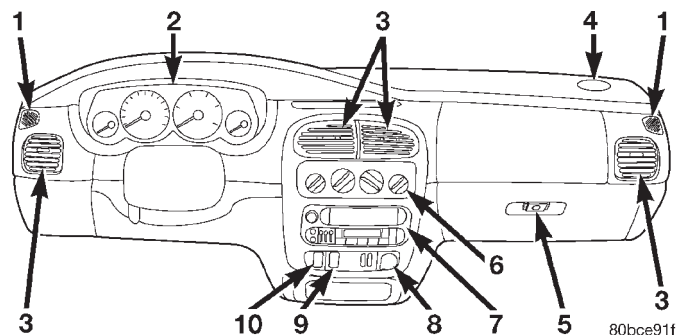
## GENERAL INFORMATION

### INTRODUCTION

The purpose of the dash gauges and indicator lamps is to keep the driver informed about the operating condition of the vehicle. If an abnormal condition occurs, the driver is informed by indicator lamp. The driver can seek service before damage occurs.

Indicator lamps use ON/OFF switch functions for operation, while gauges use a sending unit or sensor.

The Instrument Panel can be removed as an assembly after a few part are removed to allow access to the retaining bolts. There is one self-aligning bulkhead connector on the left underside of the instrument panel replacing most of the main harness connectors. Once removed, the instrument panel can be serviced for replacement. Most of the parts of the instrument panel can be replaced individually without removing the complete instrument panel assembly.



**Fig. 1 Instrument Panel**

- 1 – DEMISTER OUTLET
- 2 – INSTRUMENT CLUSTER
- 3 – CENTER AIR OUTLET
- 4 – INSTRUMENT PANEL SPEAKERS
- 5 – GLOVE BOX
- 6 – HVAC CONTROL HEAD
- 7 – RADIO
- 8 – CIGAR LIGHTER/AUXILIARY POWER OUTLET
- 9 – TRACTION CONTROL SWITCH
- 10 – REAR WINDOW DEFOGGER SWITCH

## DESCRIPTION AND OPERATION

### HEADLAMP SWITCH

The headlamp switch is part of the Multi-Function Switch. Refer to Group 8J, Turn Signal and Flasher for the Multi-Function Switch Test, Removal and Installation procedures.

### INSTRUMENT CLUSTER

There are two conventional instrument cluster assemblies available. The clusters electronically drive the speedometer, odometer, gauges, and tachometer (if equipped). Refer to (Fig. 2) and (Fig. 3).

The instrument cluster controls the courtesy lamps, it receives and sends messages to other modules via the PCI bus circuit, it controls all the instrument illumination and the chime is also an integral part of the cluster. The front turn signals are wired through the cluster and then go to the front lamps. The reason being that the DRL module is built into the cluster (if equipped).

All gauges in the electronic clusters are the analog type gauges. When the ignition switch is moved to the OFF position, the cluster drives each gauge to its lowest position. The individual gauges are not serviceable and require complete replacement of the cluster if one or more gauges are inoperable.

One button is used to switch the display from trip to total mileage. Holding the button when the display is in the trip mode will reset the trip mileage. This button is also used to put the cluster in self-diagnostic mode. Refer to Service Procedures, Cluster Self-Diagnostics in this section. Most of the indicators will come on briefly for a bulb check when the ignition is turned from OFF to ON. All of the LED's are replaceable.

In the event that the instrument cluster loses communication with all other modules on the PCI bus, the cluster will display "nobus" in the VF display. The VF display also displays "Door", "Cruise", "Trac", and odometer trip or total.

If the cluster does not detect voltage on the courtesy lamp circuit, the message "FUSE" will alternate with the odometer/trip odometer for 30 seconds after the ignition is turned on and for 15 seconds after the vehicle is first moved. The lack of voltage can be due to the M1 Fused B(+) (IOD) fuse being open, a bad or missing courtesy lamp bulb, or a circuit problem.

### WARNING AND INDICATOR LAMPS

The instrument cluster has warning lamps and indicators for the following systems:

- Airbag
- Anti-lock Brakes (ABS) if equipped
- Brake warning
- Charging System

- Front fog lamps (if equipped)
- High beam indicator
- Low fuel (premium cluster only)
- Low oil pressure
- Malfunction indicator (service engine soon) lamp
- Right and left turn signals
- Seat belt warning
- Security system
- Trac-Off (ABS equipped vehicles only)

The instrument cluster has a Vacuum Fluorescent (VF) display for the following systems:

- Cruise
- Door (ajar)
- Odometer
- Set (cruise)
- Trac
- Trip

## DIAGNOSIS AND TESTING

### AIRBAG WARNING SYSTEM

For testing of this system refer to Group 8M, Passive Restraint Systems.

### BRAKE SYSTEM WARNING LAMP TEST

The brake warning lamp illuminates when the parking brake is applied with ignition switch turned to the ON position. The same lamp will also illuminate if one of the two service brake systems fail the when brake pedal is applied.

#### To test the system:

- As the ignition switch is turned to the start position the lamp should light.
- Turn ignition switch to the ON position and apply the parking brake. The lamp should light.

#### If lamp fails to light inspect for:

- A burned out lamp
- Loose, corroded or damaged socket
- A damaged circuit board
- A broken or disconnected wire at the switch
- Defective switch

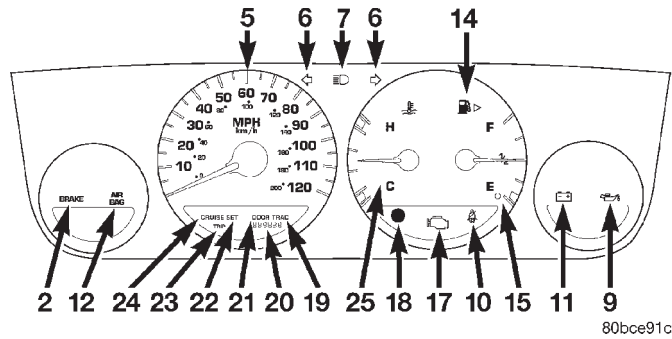
To test the service brake warning system, refer to Group 5, Brakes, Hydraulic System Control Valves.

### INSTRUMENT CLUSTER LAMPS

Every time the vehicle is switched to the START/RUN position, the cluster goes through a BULB CHECK. This tests most of the indicator lamps and Vacuum Fluorescent (VF) displays. If only one lamp is out, remove the instrument cluster and replace the defective bulb or Light Emitting Diode (LED). If some or all of the lamps fail to light, refer to the proper Body Diagnostics Procedures Manual.

DIAGNOSIS AND TESTING (Continued)

To diagnose the cluster lamps first place the cluster in self-diagnostic mode. With the ignition switch in the off position, press the trip odometer reset button down. Simultaneously turn the ignition key to the ON position and release the trip reset button. All the indicator lamps and VF displays should illuminate except for the fog lamp, turn signal, and high beam select indicators. Refer to (Fig. 2), (Fig. 3), and the Cluster Identification table.



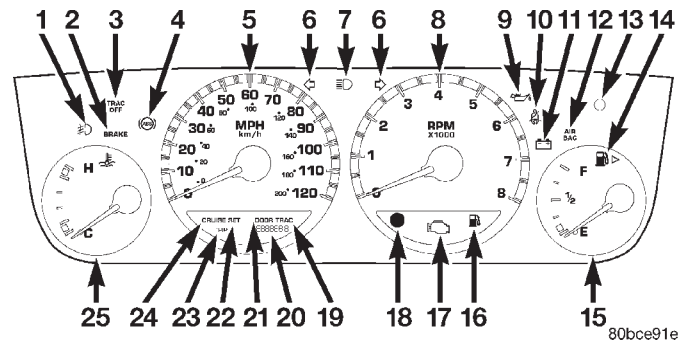
**Fig. 2 Base Instrument Cluster Without Tachometer**

- 1 - FOG LAMP
- 2 - BRAKE\*\*
- 3 - TRAC OFF\*\*
- 4 - ABS\*\*
- 5 - SPEEDOMETER
- 6 - LEFT/RIGHT TURN SIGNAL
- 7 - HIGH BEAM
- 8 - TACHOMETER
- 9 - OIL PRESSURE\*\*
- 10 - SEAT BELT\*\*
- 11 - BATTERY\*\*
- 12 - AIR BAG\*\*
- 13 - SECURITY\*
- 14 - FUEL FILLER DOOR LOCATOR
- 15 - FUEL GAUGE
- 16 - LOW FUEL\*
- 17 - MALFUNCTION INDICATOR LAMP (MIL)\*\*
- 18 - TRIP RESET BUTTON
- 19 - TRAC\*\*
- 20 - ODOMETER\*\*
- 21 - DOOR (AJAR)\*\*
- 22 - SET CRUISE\*
- 23 - TRIP\*\*
- 24 - CRUISE\*
- 25 - TEMPERATURE GAUGE

\*ILLUMINATE DURING SELF-DIAGNOSTICS  
 \*\*ILLUMINATE DURING BULB CHECK AND SELF-DIAGNOSTICS

**LOW OIL PRESSURE WARNING LAMP TEST**

The low oil pressure warning lamp will illuminate when the ignition switch is turned to the ON position without engine running. The lamp also illuminates if the engine oil pressure drops below a safe oil pressure level.



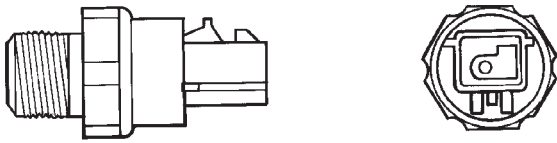
**Fig. 3 Premium Instrument Cluster With Tachometer**

- 1 - FOG LAMP
- 2 - BRAKE\*\*
- 3 - TRAC OFF\*\*
- 4 - ABS\*\*
- 5 - SPEEDOMETER
- 6 - LEFT/RIGHT TURN SIGNAL
- 7 - HIGH BEAM
- 8 - TACHOMETER
- 9 - OIL PRESSURE\*\*
- 10 - SEAT BELT\*\*
- 11 - BATTERY\*\*
- 12 - AIR BAG\*\*
- 13 - SECURITY\*
- 14 - FUEL FILLER DOOR LOCATOR
- 15 - FUEL GAUGE
- 16 - LOW FUEL\*
- 17 - MALFUNCTION INDICATOR LAMP (MIL)\*\*
- 18 - TRIP RESET BUTTON
- 19 - TRAC\*\*
- 20 - ODOMETER\*\*
- 21 - DOOR (AJAR)\*\*
- 22 - SET CRUISE\*
- 23 - TRIP\*\*
- 24 - CRUISE\*
- 25 - TEMPERATURE GAUGE

\*ILLUMINATE DURING SELF-DIAGNOSTICS  
 \*\*ILLUMINATE DURING BULB CHECK AND SELF-DIAGNOSTICS

To test the system, turn the ignition switch to the ON position. If the lamp fails to light, inspect for a broken or disconnected wire at the oil pressure switch, located at the front of the engine (Fig. 4). If the wire at the connector checks good, pull the connector loose from the switch and with a jumper wire, ground the connector to the engine. With the ignition switch turned to the ON position, check the warning lamp. If the lamp still fails to light, inspect for a burned out lamp or disconnected socket in the cluster.

DIAGNOSIS AND TESTING (Continued)



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**Fig. 4 Oil Pressure Switch**

**MULTIPLE/INDIVIDUAL GAUGES INOPERATIVE**

Test speedometer, tachometer and other gauges for malfunction:

- (1) Remove the cluster. Refer to Cluster Removal and Installation.
- (2) Check for ignition voltage at Pin 15 of the cluster wire harness connector (Fig. 5). Check for battery voltage at Pin 21 of the connector. If no voltage, repair as necessary.
- (3) Check Pin 10 of the connector for continuity to ground. If no ground, repair as necessary.
- (4) If the voltage and ground are OK, and the pins or the connectors are not distorted, replace the instrument cluster.
- (5) Install cluster. Refer to Instrument Cluster Removal and Installation in this section.

**SERVICE PROCEDURES**

**INSTRUMENT CLUSTER SELF-DIAGNOSTICS**

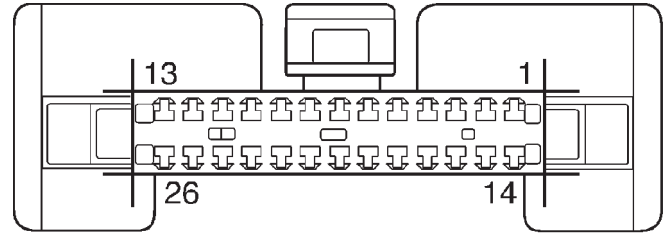
To put the cluster in self-diagnostics mode press the trip reset button down and then turn the ignition to the RUN position simultaneously, then release the button. The gauges will increment to selected stoops and all indicators will light with the exception of the turn signals, high beam, and fog lamp indicators. The oil lamp will come on when the ignition is turned ON and the engine is OFF.

**REMOVAL AND INSTALLATION**

**ACCESSORY SWITCH/POWER OUTLET BEZEL**

**REMOVAL**

- (1) Disconnect and isolate the battery negative cable (Fig. 6).
- (2) Remove the instrument panel center bezel. Refer to Instrument Panel Center Bezel Removal and Installation in this section.
- (3) Remove four screws retaining accessory switch/power outlet bezel (Fig. 7).



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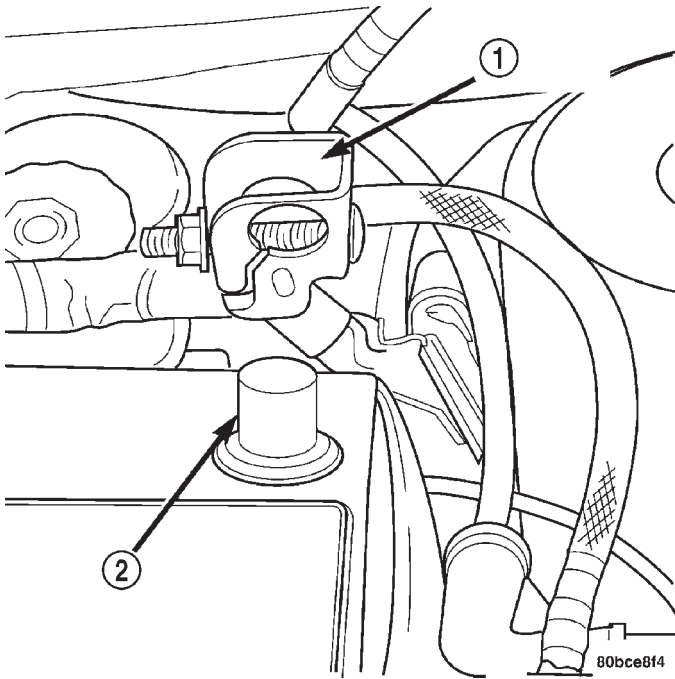
**Fig. 5 Cluster Wire Harness Connector**

**INSTRUMENT CLUSTER CONNECTOR PIN CALL-OUT**

PIN	DESCRIPTION	PIN	DESCRIPTION
1	REAR FOG LAMP FEED	14	PARK LAMP SWITCH OUTPUT
2	PCI BUS	15	FUSED IGNITION SWITCH OUTPUT (RUN-START)
3	COURTESY LAMPS DRIVER	16	DAYTIME RUNNING LAMPS
4	FOG LAMP SWITCH OUTPUT	17	DAYTIME RUNNING LAMPS
5	VTSS INDICATOR DRIVER	18	LEFT TURN SIGNAL
6	PANEL LAMPS DIMMER SIGNAL	19	RIGHT TURN SIGNAL
7	FUEL LEVEL SENSOR SIGNAL	20	DIMMER SWITCH LOW BEAM OUTPUT
8	NOT USED	21	FUSED B+
9	NOT USED	22	RED BRAKE WARNING INDICATOR DRIVER
10	GROUND	23	KEY-IN IGNITION SWITCH SENSE
11	NOT USED	24	DRIVER DOOR AJAR SWITCH SENSE
12	PANEL LAMPS DRIVER	25	SEAT BELT SWITCH SENSE
13	KEYLESS ENTRY SIGNAL	26	DIMMER SWITCH HIGH BEAM OUTPUT

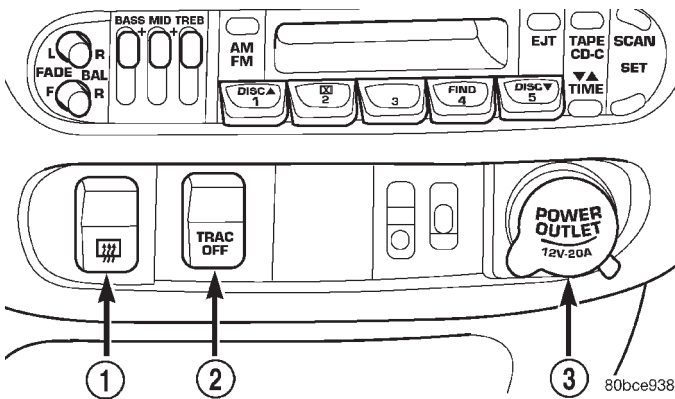
- (4) Disconnect the harness connectors to the following:
- Rear Window Defogger Switch (if equipped)
  - Traction Control Switch (if equipped)
  - Cigar Lighter/Power Outlet

REMOVAL AND INSTALLATION (Continued)



**Fig. 6 Battery Negative Cable Remove/Install**

- 1 - NEGATIVE CABLE
- 2 - NEGATIVE BATTERY POST



**Fig. 7 Accessory Switch/Power Outlet Bezel**

- 1 - REAR WINDOW DEFOGGER
- 2 - TRACTION CONTROL SWITCH
- 3 - CIGAR LIGHTER/AUXILIARY POWER OUTLET

The accessory switches are not serviced separately, but the cigar lighter/power outlet is and must be transferred to the new bezel. Refer to Cigar Lighter/Power Outlet Removal and Installation in this section.

**INSTALLATION**

For installation reverse the above procedures.

**CENTER CONSOLE FLOOD LAMP**

**REMOVAL**

- (1) Insert a small screwdriver into notch by lens and gently pry out unit. Refer to (Fig. 7).
- (2) Slide back rear cover to expose bulb.
- (3) Replace bulb.

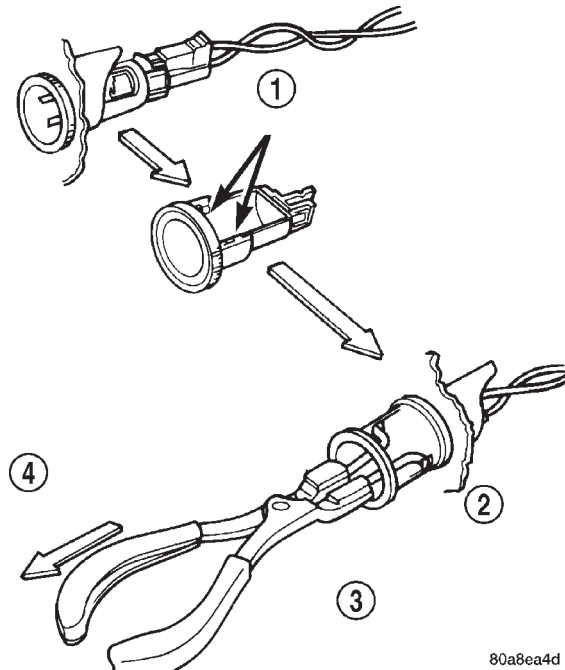
**INSTALLATION**

For installation reverse the above procedures. When installing the retainer ensure that the forward tabs are inserted properly into the slots in the instrument panel.

**CIGAR LIGHTER / POWER OUTLET ASSEMBLY**

**REMOVAL**

- (1) Disconnect and isolate the battery negative cable (Fig. 6).
- (2) Look inside and note position of the retaining bosses (Fig. 8).



**Fig. 8 Cigar Lighter / Power Outlet Base Removal**

- 1 - RETAINING BOSSES-ENGAGE PLIERS HERE
- 2 - PARTIALLY REMOVED
- 3 - EXTERNAL SNAP-RING PLIERS
- 4 - PULL BASE OUT-THROUGH MOUNTING RING

(3) Using external snap ring pliers with 90 degree tips. Insert pliers with tips against bosses and squeeze forcing bosses out of base.

(4) Pull out the base through mounting ring by gently rocking pliers. A tool can be made to do the same. Refer to (Fig. 9).

(5) Disconnect the base wires.

## REMOVAL AND INSTALLATION (Continued)

- (6) Set base aside and remove base mount ring.

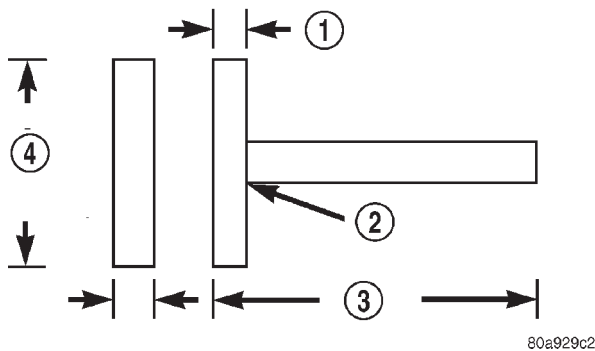
**INSTALLATION**

(1) Position mount ring to the instrument panel and feed the wires through ring. Index the cap and the mount ring with the index tab at 9 o'clock to the key in the instrument panel. Install the ring.

(2) Connect wires to base. Orient base alignment rib at 11 o'clock to mate the groove in mount ring at the same location

(3) Push base into the bezel till it locks.

(4) Install cigar lighter cap and check operation of element.



**Fig. 9 Tool For Cigar Lighter / Power Outlet Removal**

- 1 - 2.5MM (3/32 INS.)  
 2 - WELD  
 3 - 100MM (4 INS.)  
 4 - 22.25 TO 22.45MM (7/8 TO 57/64 INS.)

**GLOVE BOX DOOR/BIN****REMOVAL**

- (1) Open front passenger door.
- (2) Remove three glove box door hinge screws.
- (3) Open glove box and remove assembly from vehicle.
- (4) Remove eight screws retaining glove box door to bin assembly.
- (5) Separate glove box door from bin and remove.

**INSTALLATION**

For installation, reverse the above procedures.

**GLOVE BOX DOOR/BIN****REMOVAL**

- (1) Open front passenger door.
- (2) Remove three glove box door hinge screws.
- (3) Open glove box and remove assembly from vehicle.
- (4) Remove eight screws retaining glove box door to bin assembly.

- (5) Separate glove box door from bin and remove.

**INSTALLATION**

For installation, reverse the above procedures.

**GLOVE BOX SWITCH/LAMP****REMOVAL**

(1) Disconnect and isolate the battery negative cable (Fig. 6).

(2) Open the glove box and push the glove box sides inward allowing the door bumpers to clear and the box to tip forward.

(3) Reach inside the opening and squeeze the lamp/switch retainers until they are disengage.

(4) Pull the switch/lamp rearward and remove it. Replace the lamp. To replace the switch disconnect wire and replace the switch.

**INSTALLATION**

For installation, reverse the above procedures.

**INSTRUMENT CLUSTER**

**CAUTION:** The Instrument Cluster **MUST** be stored in a face up position or damage will occur to the gauge operation.

**REMOVAL**

- (1) Disconnect and isolate the battery negative cable (Fig. 6).
- (2) Remove both left and right A-Pillar trim covers.
- (3) Remove the instrument panel top cover.
- (4) Remove cluster bezel.
- (5) Remove the four screws attaching cluster housing to the base panel.
- (6) Pull the cluster rearward to disconnect from base panel.
- (7) Remove the cluster assembly.

**INSTALLATION**

For installation, reverse the above procedures.

**INSTRUMENT CLUSTER BEZEL****REMOVAL**

(1) Remove instrument panel top cover. Refer to Instrument Panel Top Cover Removal and Installation in this section.

(2) Using a trim stick (special tool #C-4755), gently pry up on the cluster bezel and remove from vehicle.

**INSTALLATION**

For installation, reverse the above procedures.

REMOVAL AND INSTALLATION (Continued)

**INSTRUMENT CLUSTER LAMPS**

**WARNINGS/INDICATORS**

The instrument cluster warning/indicator lamps are all serviceable Light Emitting Diodes (LED's). The instrument cluster must first be removed, refer to Instrument Cluster Removal and Installation in this section, and then the defective LED just turns out with needle nose pliers.

**ILLUMINATION LAMPS**

The high beam indicator, turn signals, and illumination bulbs are also serviceable. The instrument cluster must first be removed, refer to Instrument Cluster Removal and Installation in this section, and then the defective bulb and socket turns out. The bulb locations are printed on the back cover of the instrument cluster.

**INSTRUMENT PANEL ASSEMBLY**

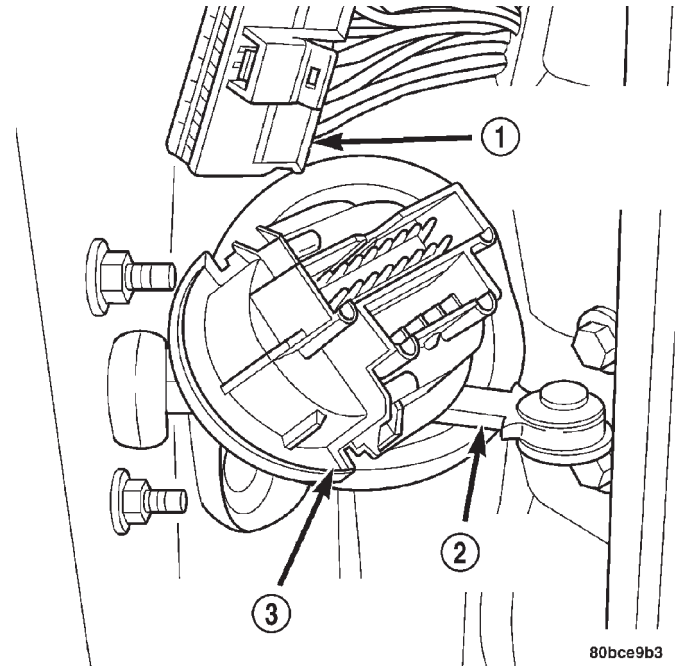
**REMOVAL**

- (1) Disconnect and isolate the battery negative cable (Fig. 6).
- (2) Push seats back to their full back position.
- (3) Using a trim stick (special tool #C-4755), gently pry out on left and right A-pillar trim moldings and remove.
- (4) Remove top cover. Refer to Top Cover Removal and Installation in this section.
- (5) Gently pull up on cluster bezel and remove from vehicle.
- (6) Gently pull rearward on left lower instrument panel cover and remove from vehicle.

**CAUTION:** Lock the steering wheel in the straight ahead position. This will prevent clockspring damage when the steering wheel rotates freely.

- (7) Remove steering column. Refer to Group 19 Steering, Steering Column Removal and Installation.
- (8) Remove left and right instrument panel end-caps.
- (9) Remove left and right cowl side panels.
- (10) Remove center console. Refer to Group 23 Body, Center Console Removal and Installation.
- (11) Depress the sides of the Data Link Connector (DLC) and remove from instrument panel reinforcement.
- (12) Remove four bulkhead instrument panel retaining screws.
- (13) Remove two bolts on top of the brake pedal support bracket.
- (14) Remove two center support mounting bolts.
- (15) Remove left and right A-pillar mounting bolts, two on each side.

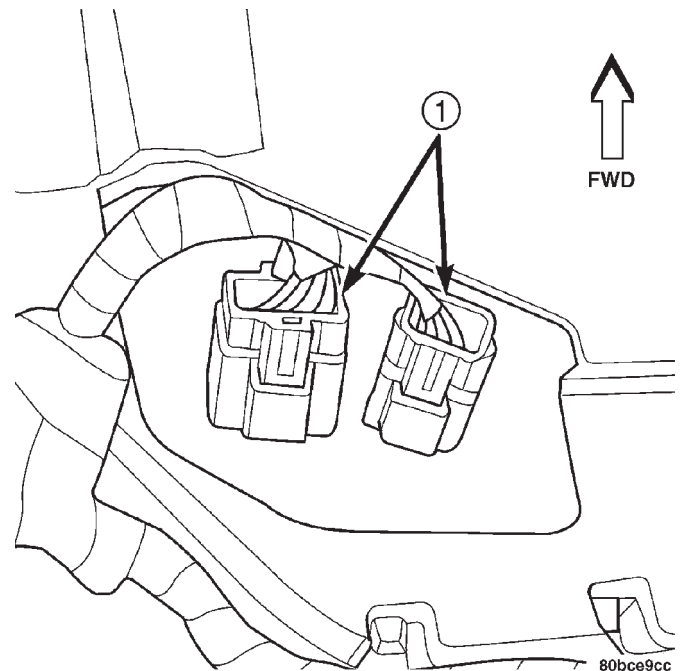
- (16) Disconnect right side antenna connector.
- (17) Remove left and right A-pillar door harness connectors (Fig. 10).



**Fig. 10 A-Pillar Door Harness Connector**

- 1 - INSTRUMENT PANEL HARNESS CONNECTOR
- 2 - DOOR CHECK STRAP
- 3 - DOOR HARNESS CONNECTOR

- (18) Disconnect two harness connectors to hvac at right top instrument panel (Fig. 11).



**Fig. 11 Instrument Panel to HVAC Harness Connectors**

- 1 - HVAC HARNESS CONNECTORS

## REMOVAL AND INSTALLATION (Continued)

(19) Disconnect one left side harness connector at top left of instrument panel for vanity and rear view mirrors.

(20) Pull off the hvac control head knobs.

(21) Remove two screws retaining the top front of the center bezel.

(22) Using a trim stick, gently pry out on the instrument panel center bezel and remove.

(23) Remove the two retaining screws to the hvac control head.

(24) Disconnect the one instrument panel wire harness connector.

(25) Disconnect the one vacuum harness connector.

(26) Pull hvac control head out of instrument panel, twist 90° and push back through the opening (Fig. 12). Do not disconnect the control cables.

(27) Disconnect the center console wiring:

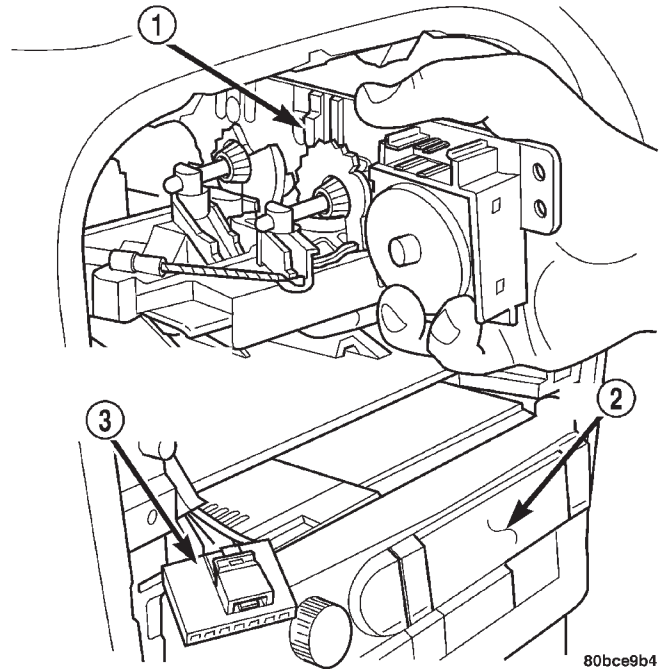
- Airbag Control Module (ACM)
- Parking Brake Warning Lamp Switch
- Transmission Range Indicator Lamp

(28) With help on an assistant, pull rearward on instrument panel assembly and remove from vehicle.

If replacing instrument panel, transfer parts as necessary.

**INSTALLATION**

For installation, reverse the above procedures.



**Fig. 12 HVAC Control Head**

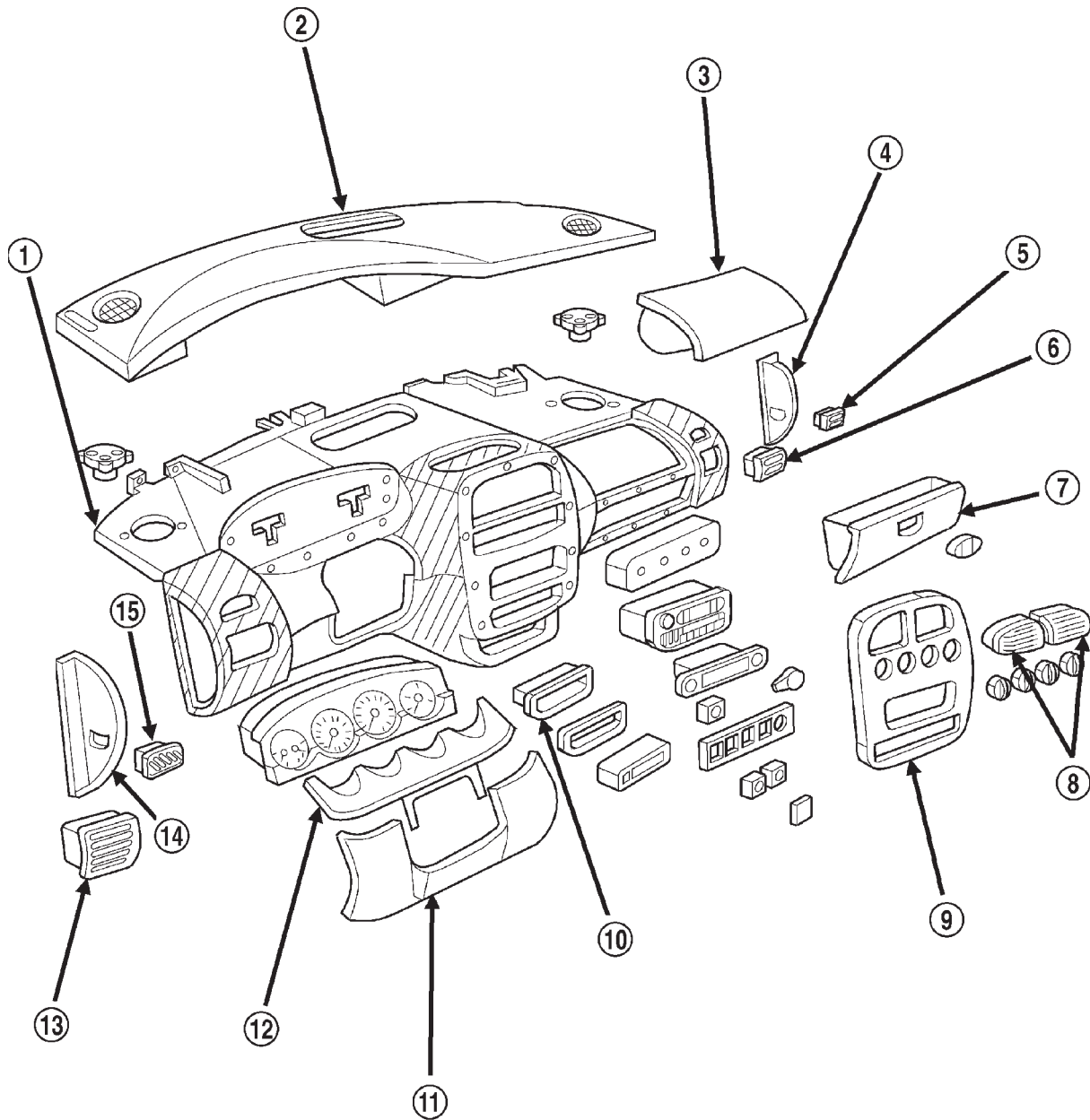
1 - HVAC CONTROL HEAD

2 - RADIO

3 - HVAC CONTROL HEAD HARNESS CONNECTOR



REMOVAL AND INSTALLATION (Continued)



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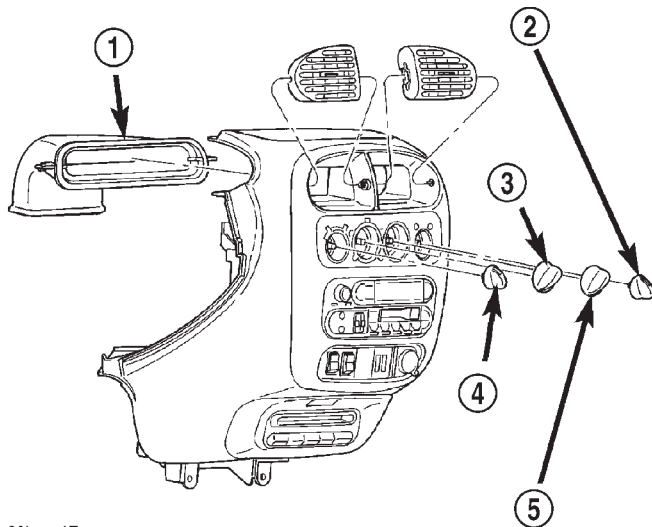
**Fig. 13 Instrument Panel Assembly**

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| 1 - INSTRUMENT PANEL ASSEMBLY     | 9 - BEZEL INSTRUMENT PANEL, CENTER |
| 2 - UPPER COVER INSTRUMENT PANEL  | 10 - BIN, LOWER STORAGE            |
| 3 - MODULE, PASSENGER SIDE AIRBAG | 11 - COVER, LOWER INSTRUMENT PANEL |
| 4 - END CAP, RIGHT                | 12 - CLUSTER BEZEL                 |
| 5 - DEMISTER GRILLE, RIGHT        | 13 - LOUVER, AIR OUTLET, LEFT      |
| 6 - LOUVER, AIR OUTLET, RIGHT     | 14 - END CAP, LEFT                 |
| 7 - DOOR, GLOVE BOX               | 15 - DEMISTER GRILLE, LEFT         |
| 8 - LOUVER, AIR OUTLET, CENTER    |                                    |

## REMOVAL AND INSTALLATION (Continued)

**INSTRUMENT PANEL CENTER BEZEL****REMOVAL**

- (1) Remove HVAC control knobs from control head.
- (2) Remove both center A/C outlet louvers (Fig. 14) by rolling downward and pulling out.



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**Fig. 14 A/C Outlet Louvers**

- 1 - INSTRUMENT PANEL CENTER AIR DUCT
- 2 - OUTSIDE AIR/RECIRC CONTROL KNOB
- 3 - MODE CONTROL KNOB
- 4 - BLOWER SPEED KNOB
- 5 - TEMPERATURE CONTROL KNOB

(3) Remove two screws retaining the top front of the center bezel up inside the center A/C outlet duct.

(4) Using a trim stick (special tool #C-4755), gently pry out on instrument panel center bezel.

(5) Remove bezel from vehicle.

**INSTALLATION**

For installation, reverse the above procedures.

**INSTRUMENT PANEL END CAPS****REMOVAL**

(1) Open the door, left or right, and pull on the access handle to disengage the end cap clips. Fuse diagram is located inside the left end cap. Fuse Access is under the left end cap.

**INSTALLATION**

For installation, reverse the above procedure.

**INSTRUMENT PANEL TOP COVER****REMOVAL**

(1) Using a trim stick (special tool #C-4755), gently pry out on both the left and right A-pillar trim panels and remove.

(2) Use care not to scratch the panel. Lift up on the bottom outer areas of the cluster bezel and along the rearward edge of the top cover to disengage the clips.

(3) Pull the top cover rearward until the forward pins disengage from the instrument panel.

**INSTALLATION**

For installation, reverse the above procedures. Position spring clips to instrument panel and push firmly until seated.

**LOWER INSTRUMENT PANEL COVER****REMOVAL**

(1) Remove instrument cluster bezel, Refer to Instrument Cluster Bezel Removal and Installation in this section.

(2) Grasp left lower instrument panel cover from the bottom and pull firmly rearward.

(3) Remove lower instrument panel cover from vehicle.

**INSTALLATION**

For installation, reverse the above procedures.

**LOWER STORAGE BIN****REMOVAL**

(1) Using a trim stick (special tool #C-4755), gently pry out on the side of the lower storage bin Refer to (Fig. 7).

(2) Disconnect the center console flood lamp.

(3) Transfer the center console flood lamp housing to new bin (if replacing).

**INSTALLATION**

For installation, reverse the above procedures.

REMOVAL AND INSTALLATION (Continued)

**STEERING COLUMN SHROUDS**

**REMOVAL**

(1) Remove lower instrument panel cover. Refer to Lower Instrument Panel Cover Removal and Installation in this section.

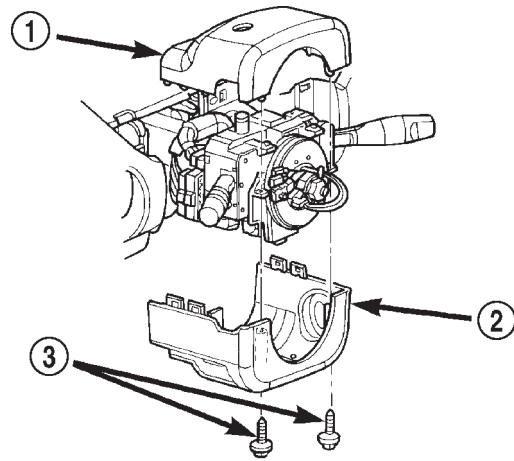
(2) Remove instrument cluster bezel. Refer to Instrument Cluster Bezel Removal and Installation in this section.

(3) Remove two column shroud retaining screws.

(4) Separate upper and lower steering column shrouds (Fig. 15) and remove from vehicle.

**INSTALLATION**

For installation, reverse the above procedures.



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**Fig. 15 Steering Column Shrouds**

- 1 - UPPER SHROUD
- 2 - LOWER SHROUD
- 3 - MOUNTING SCREWS

