

OVERHEAD CONSOLE SYSTEMS

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GENERAL INFORMATION

INTRODUCTION

An overhead console featuring a mini trip computer, an electronic compass, and an outside ambient temperature thermometer is an available factory-installed option on this model. Refer to 8W-49 - Overhead Console in Group 8W - Wiring Diagrams for complete circuit descriptions and diagrams.

NOTE: This group covers both Left-Hand Drive (LHD) and Right-Hand Drive (RHD) versions of this model. Whenever required and feasible, the RHD versions of affected vehicle components have been constructed as mirror-image of the LHD versions. While most of the illustrations used in this group represent only the LHD version, the diagnostic and service procedures outlined can generally be applied to either version. Exceptions to this rule have been clearly identified as LHD or RHD, if a special illustration or procedure is required.

OVERHEAD CONSOLE

The overhead console for this model includes a mini trip computer, an electronic compass, and an outside ambient temperature thermometer. The overhead console also houses two front-mounted and two rear-mounted reading and courtesy lamps, a garage

door opener storage bin, and a sunglasses storage bin.

On models equipped with the Remote Keyless Entry (RKE) option, the RKE receiver is also located within the overhead console housing. Refer to Group 8P - Power Lock Systems for more information on this feature.

Following are general descriptions of the major components used in the overhead console. Refer to the owner's manual in the vehicle glove box for more information on the features, use and operation of the various overhead console components.

DESCRIPTION AND OPERATION

TRIP COMPUTER

A mini trip computer is available on this model to provide several electronic functions and features. The trip computer contains a central processing unit and interfaces with other modules in the vehicle on the Chrysler Collision Detection (CCD) data bus network.

The CCD data bus network allows the sharing of sensor information. This helps to reduce wire harness complexity, reduce internal controller hardware, and reduce component sensor current loads. At the same time, this system provides increased reliability, enhanced diagnostics, and allows the addition of many new feature capabilities.

DESCRIPTION AND OPERATION (Continued)

Some of the functions and features that the trip computer supports and/or controls, include the following display options:

- Compass and temperature
- Trip odometer (ODO)
- Average fuel economy (AVG ECO)
- Instant fuel economy (ECO)
- Distance to empty (DTE)
- Elapsed time (ET)
- Blank display.

Momentarily depressing and releasing the Step button when the ignition switch is in the On position will cause the overhead console display to step sequentially through the listed display options. Momentarily depressing and releasing the U. S./Metric button toggles the display between U. S. and Metric measurements.

The push button (Step and U. S./Metric) switch module in the overhead console is hard wired to the trip computer. The compass flux-gate unit is integral to the trip computer, compass, and thermometer display module unit. Data input for all other trip computer functions is received through CCD data bus messages. The trip computer uses its internal programming and all of these inputs to calculate and display the requested data. If the data displayed is incorrect, see Trip Computer, Compass, and Thermometer Display Module - Self-Diagnostic Test in the Diagnosis and Testing section of this group. If these tests prove inconclusive, the use of a DRB scan tool and the proper Diagnostic Procedures manual are recommended for further testing of the trip computer and the CCD data bus.

The trip computer, compass, and thermometer display module cannot be repaired, and is only available for service as a unit. If faulty or damaged, the complete module must be replaced. The push button (Step and U. S./Metric) switch module is serviced separately.

COMPASS

The compass will display the direction in which the vehicle is pointed using the eight major compass headings (Examples: north is N, northeast is NE). It does not display the headings in actual degrees.

The self-calibrating compass unit requires no adjusting in normal use. The only calibration that may prove necessary is to drive the vehicle in three complete circles, on level ground, in not less than 48 seconds. This will reorient the compass unit to its vehicle.

The compass unit also will compensate for magnetism the body of the vehicle may acquire during normal use. However, avoid placing anything magnetic directly on the roof of the vehicle. Magnetic mounts for an antenna, a repair order hat, or a funeral pro-

cession flag can exceed the compensating ability of the compass unit if placed on the roof panel. Magnetic bit drivers used on the fasteners that hold the assembly to the roof header can also affect compass operation. If the vehicle roof should become magnetized, demagnetizing and calibration may be required to restore proper compass operation. See Compass Calibration or Compass Demagnetizing in the Service Procedures section of this group for these procedures.

The compass, trip computer, and thermometer display module cannot be repaired, and is only available for service as a unit. If faulty or damaged, the complete module must be replaced. The push button (Step and U. S./Metric) switch module is serviced separately.

THERMOMETER

The thermometer displays the outside ambient temperature. The temperature display can be changed from Fahrenheit to Celsius using the U. S./Metric button, located just rearward of the display module. The displayed temperature is not an instant reading of conditions, but an average temperature. It may take the thermometer display several minutes to respond to a major temperature change, such as driving out of a heated garage into winter temperatures.

When the ignition switch is turned to the Off position, the last displayed temperature reading stays in the thermometer unit memory. When the ignition switch is turned to the On position again, the thermometer will display the memory temperature if the engine coolant temperature is above about 52° C (125° F). If the engine coolant temperature is below about 52° C (125° F), the thermometer will display the actual temperature sensed by the ambient temperature sensor. The thermometer temperature display update interval varies with the vehicle speed.

The thermometer function is supported by an ambient temperature sensor. The sensor is mounted outside the passenger compartment near the front and center of the vehicle and is hard-wired to the module. The ambient temperature sensor is available as a separate service item.

The thermometer, compass, and trip computer display module cannot be repaired, and are only available for service as a unit. If faulty or damaged, the complete module must be replaced. The push button (Step and U. S./Metric) switch module and ambient temperature sensor are serviced separately.

READING AND COURTESY LAMP

All reading and courtesy lamps located in the overhead console are activated by the door ajar switches. When the doors are closed, the lamps can be individually activated by depressing the corresponding lens.

DESCRIPTION AND OPERATION (Continued)

When a door is open, depressing the lamp lens switches will not turn the lamps off. Refer to Group 8L - Lamps, for diagnosis of the reading and courtesy lamps.

The reading and courtesy lamp lens, and bulbs are available for service replacement. The reading and courtesy lamp holders and switches are only available as part of the overhead console wire harness. If any reading lamp switch is faulty or damaged, the wire harness and all four switches must be replaced.

GARAGE DOOR OPENER STORAGE BIN

A compartment in the overhead console is designed to hold most garage door opener remote control transmitters. The transmitter is mounted within the compartment with an adhesive-backed hook and loop fastener patch.

With the transmitter mounted in the storage bin, adapter pegs located on the front of the storage bin door are selected and mounted on a post near the center of the storage bin door. The peg(s) selected and/or the post must be long enough to depress the button of the transmitter, when the garage door opener storage bin door is depressed. The pegs may be stacked, if necessary. Refer to the owner's manual in the vehicle glove box for more information.

A transmitter mounting kit including the adhesive-backed hook and loop fastener material and a selection of pegs is available for service. The garage door opener storage bin door assembly is also available for service replacement.

SUNGLASSES STORAGE BIN

A sunglasses storage bin is included in the overhead console. The interior of the bin is lined with a foam rubber padding material to protect the sunglasses from being scratched. This bin features a push/push-type latching mechanism, and a viscous dampening system for a fluid opening action.

The sunglasses storage bin door, latch, viscous damper, hinge spring and housing are available for service only as a complete module. If any part of this unit is faulty or damaged, the entire module must be replaced.

DIAGNOSIS AND TESTING**TRIP COMPUTER, COMPASS, AND THERMOMETER DISPLAY MODULE**

If the problem with the trip computer, compass, and thermometer display module is an inaccurate or scrambled display, use the Self-Diagnostic Test procedures. If the problem is incorrect display lighting levels, use a DRB scan tool and the proper Diagnostic Procedures manual to test for the correct dimming

message inputs being received from the instrument cluster over the Chrysler Collision Detection (CCD) data bus. If the problem is a no-display condition, use the following procedures. For circuit descriptions and diagrams, refer to 8W-49 - Overhead Console in Group 8W - Wiring Diagrams.

(1) Check the fuses in the junction block and the Power Distribution Center (PDC). If OK, go to Step 2. If not OK, repair the shorted circuit or component as required and replace the faulty fuse(s).

(2) Turn the ignition switch to the On position. Check for battery voltage at the fused ignition switch output fuse in the junction block. If OK, go to Step 3. If not OK, repair the open circuit to the ignition switch as required.

(3) Turn the ignition switch to the Off position. Disconnect and isolate the battery negative cable. Remove the overhead console from the headliner. Check for continuity between the ground circuit cavities of the overhead console wire harness connector and a good ground. There should be continuity. If OK, go to Step 4. If not OK, repair the open circuit to ground as required.

(4) Connect the battery negative cable. Check for battery voltage at the fused B(+) circuit cavity of the overhead console wire harness connector. If OK, go to Step 5. If not OK, repair the open circuit to the junction block as required.

(5) Turn the ignition switch to the On position. Check for battery voltage at the fused ignition switch output circuit cavity of the overhead console wire harness connector. If OK, proceed to the Self-Diagnostic Test in this group for further diagnosis of the module and the CCD data bus. If not OK, repair the open circuit to the junction block as required.

SELF-DIAGNOSTIC TEST

A self-diagnostic test is used to determine that the trip computer, compass, thermometer, and all of the display module segments are operating properly electrically. Initiate the self-diagnostic test as follows:

(1) With the ignition switch in the Off position, simultaneously press and hold the Step button and the U. S./Metric button.

(2) Turn the ignition switch to the On position.

(3) Continue to hold both buttons until the display module performs a display segment test. In this test, all of the vacuum fluorescent display segments are lighted. This test will:

- a. Verify that all display segments are functional
- b. Check the internal circuitry of the module
- c. Check that all of the CCD data bus messages needed are being received.

(4) Respond to the respective test results as follows. If all tests are passed, the module will automatically return to normal operation.

DIAGNOSIS AND TESTING (Continued)

a. In the display segment test, if any segment should fail to light the unit is faulty and must be replaced.

b. If the internal circuitry test is failed, the module will display "FAIL". If "FAIL" is displayed, the unit is faulty and must be replaced.

c. If the CCD data bus message test is failed, the module will display "CCD". If "CCD" is displayed, the use of a DRB scan tool and the proper Diagnostic Procedures manual are required for further diagnosis.

(5) Momentarily depress and release either button one time to exit the self-diagnostic test mode and return the trip computer, compass, and thermometer display module to normal operation.

NOTE: If the compass functions, but accuracy is suspect, it may be necessary to perform a variation adjustment. This procedure allows the compass unit to accommodate variations in the earth's magnetic field strength, based on geographic location. See the Compass Variation Adjustment procedures, in this group.

NOTE: If the compass reading has blanked out, and only "CAL" appears in the display module, demagnetizing may be necessary to remove excessive residual magnetic fields from the vehicle. See the Compass Demagnetizing procedure, in this group.

THERMOMETER

The thermometer function is supported by a ambient temperature sensor, a wiring circuit, and a portion of the overhead console trip computer, compass, and thermometer display module display. The sensor is mounted outside the passenger compartment near the front and center of the vehicle.

If any portion of the ambient temperature sensor circuit fails, the thermometer display will self-diagnose the circuit. An "SC" (short circuit) will appear in the display in place of the temperature, when the sensor is exposed to temperatures above 55° C (131° F), or if the sensor circuit is shorted. An "OC" (open circuit) will appear in the display in place of the temperature, when the sensor is exposed to temperatures below -40° C (-40° F), or if the sensor circuit is open.

The ambient temperature sensor circuit can also be diagnosed using the following Sensor Test, and Sensor Circuit Test. If the temperature sensor and circuit are confirmed to be OK, but the temperature display is inoperative or incorrect, see the Trip Computer, Compass, and Thermometer Display Module diagnosis in this group. For circuit descriptions and diagrams, refer to 8W-49 - Overhead Console in Group 8W - Wiring Diagrams.

SENSOR TEST

(1) Turn the ignition switch to the Off position. Disconnect and isolate the battery negative cable. Unplug the temperature sensor wire harness connector.

(2) Measure the resistance of the temperature sensor. At -40° C (-40° F), the sensor resistance is 336 kilohms. At 55° C (131° F), the sensor resistance is 2.986 kilohms. The sensor resistance should read between these two values. If OK, go to the Sensor Circuit Test. If not OK, replace the faulty sensor.

SENSOR CIRCUIT TEST

(1) Turn the ignition switch to the Off position. Disconnect and isolate the battery negative cable. Unplug the ambient temperature sensor wire harness connector and the overhead console wire harness connector.

(2) Connect a jumper wire between the two terminals in the body half of the sensor wire harness connector.

(3) Check for continuity between the sensor return circuit and the ambient temperature sensor signal circuit cavities of the overhead console wire harness connector. There should be continuity. If OK, go to Step 4. If not OK, repair the open circuit as required.

(4) Remove the jumper wire from the ambient temperature sensor wire harness connector. Check for continuity between the sensor return circuit cavity of the overhead console wire harness connector and a good ground. There should be no continuity. If OK, go to Step 5. If not OK, repair the short circuit as required.

(5) Check for continuity between the ambient temperature sensor signal circuit cavity of the overhead console wire harness connector and a good ground. There should be no continuity. If OK, see the Trip Computer, Compass, and Thermometer Display Module diagnosis in this group. If not OK, repair the short circuit as required.

SERVICE PROCEDURES

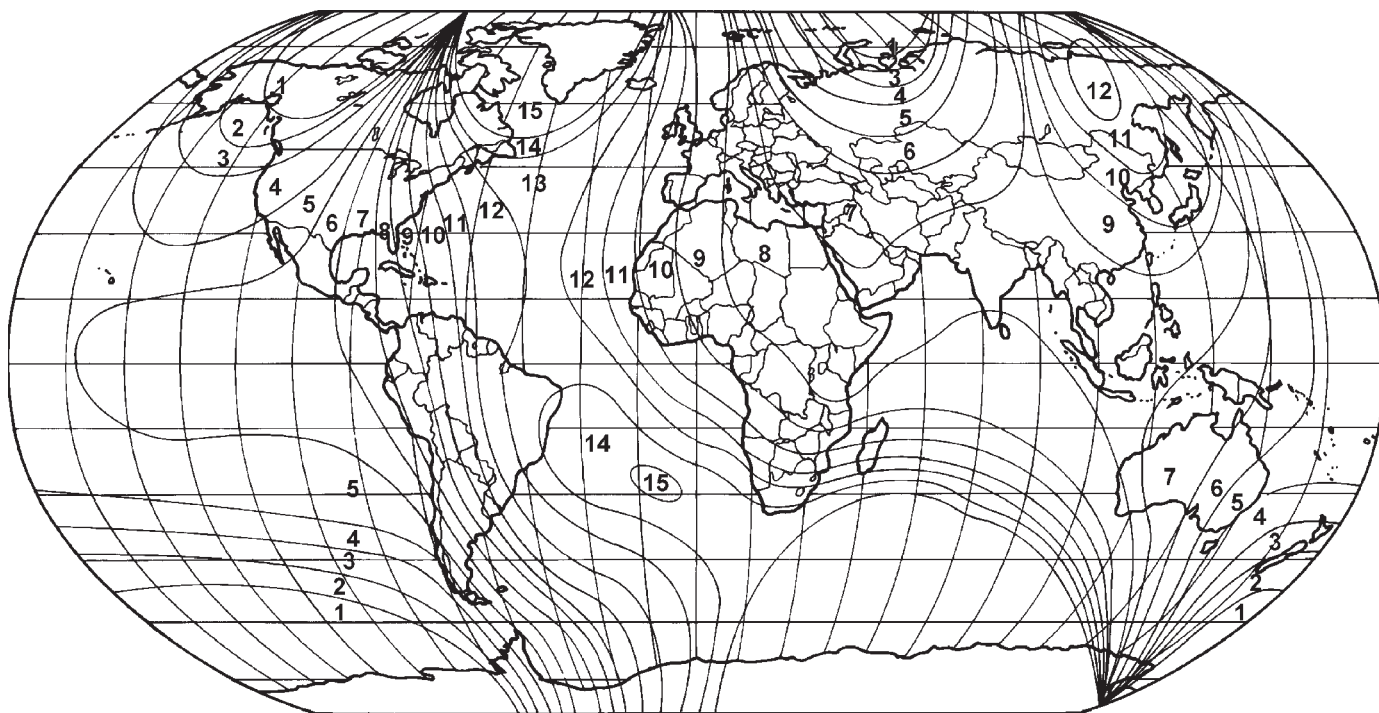
COMPASS VARIATION ADJUSTMENT

Variance is the difference between magnetic north and geographic north. In some geographic locations, the difference between magnetic and geographic north is great enough to cause the compass to give false readings. If this problem occurs, the compass variance must be set.

To set the compass variance:

(1) Using the Variance Settings map, find your geographic location and note the zone number (Fig. 1).

SERVICE PROCEDURES (Continued)



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Fig. 1 Variance Settings

(2) Turn the ignition switch to the On position. If the compass/temperature data is not currently being displayed, momentarily depress and release the Step button to step through the display options until you have reached the compass/temperature display.

(3) Depress both the U. S./Metric, and the Step buttons. Hold the buttons down until "VAR" appears in the display. This takes about five seconds.

(4) Release both of the buttons. The current variance zone number setting will appear in the display.

(5) Press and release the U. S./Metric button to step through the zone numbers, until the zone number for your geographic location appears in the display.

(6) Press the Step button to enter this zone number into the compass unit memory.

(7) Confirm that the correct directions are now indicated by the compass.

COMPASS CALIBRATION

CAUTION: Do not place any external magnets, such as magnetic roof mount antennas, in the vicinity of the compass. Do not use magnetic tools when servicing the overhead console.

The electronic compass unit features a self-calibrating design, which simplifies the calibration procedure. This feature automatically updates the compass calibration while the vehicle is being driven.

This allows the compass unit to compensate for small changes in the residual magnetism that the vehicle may acquire during normal use. Do not attempt to calibrate the compass near large metal objects such as other vehicles, large buildings, or bridges.

NOTE: Whenever the compass is calibrated manually, the variation number must also be reset. See **Compass Variation Adjustment** in the **Service Procedures** section of this group.

Calibrate the compass manually as follows:

(1) Start the engine. If the compass/temperature data is not currently being displayed, momentarily depress and release the Step button to step through the display options until you have reached the compass/temperature display.

(2) Depress both the U. S./Metric and the Step buttons. Hold the buttons down until "CAL" appears in the display. This takes about ten seconds, and appears about five seconds after "VAR" is displayed.

(3) Release both of the buttons.

(4) Drive the vehicle on a level surface, away from large metal objects, through three or more complete circles in not less than 48 seconds. The "CAL" message will disappear from the display to indicate that the compass is now calibrated.

SERVICE PROCEDURES (Continued)

NOTE: If the "CAL" message remains in the display, either there is excessive magnetism near the compass, or the unit is faulty. Repeat the demagnetizing and calibration procedures at least one more time.

NOTE: If the wrong direction is still indicated in the compass display, the area selected for calibration may be too close to a strong magnetic field. Repeat the calibration procedure in another location.

COMPASS DEMAGNETIZING

A degaussing tool (Special Tool 6029) is used to demagnetize, or degauss, the overhead console forward mounting screw(s) and the roof panel. Equivalent units must be rated as continuous duty for 110/115 volts and 60 Hz. They must also have a field strength of over 350 gauss at 7 millimeters (0.25 inch) beyond the tip of the probe.

To demagnetize the roof panel and the overhead console forward mounting screw(s), proceed as follows:

(1) Be certain that the ignition switch is in the Off position, before you begin the demagnetizing procedure.

(2) Plug in the degaussing tool, while keeping the tool at least 61 centimeters (2 feet) away from the compass unit.

(3) Slowly approach the head of the overhead console forward mounting screw with the degaussing tool plugged in.

(4) Contact the head of each screw with the plastic coated tip of the degaussing tool for about two seconds.

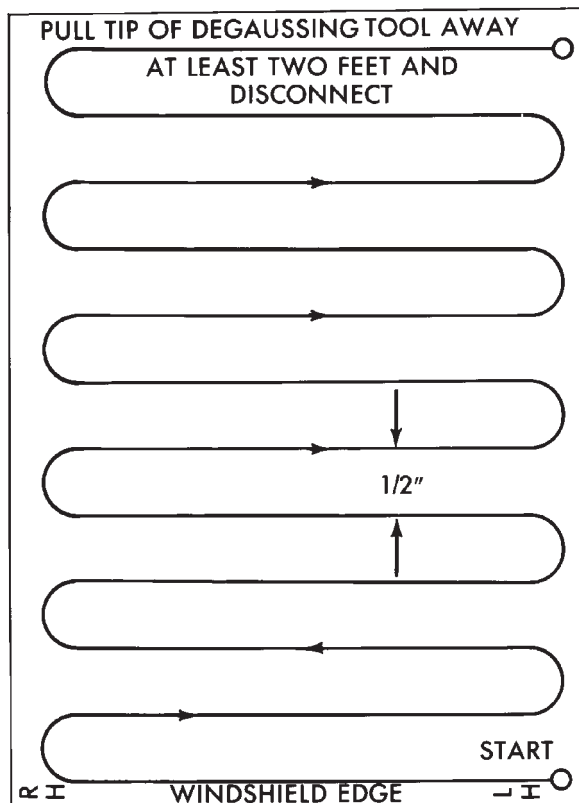
(5) With the degaussing tool still energized, slowly back it away from the screw. When the tip of the tool is at least 61 centimeters (2 feet) from the screw head, unplug the tool.

(6) Place a piece of paper approximately 22 by 28 centimeters (8.5 by 11 inches), oriented on the vehicle lengthwise from front to rear, on the center line of the roof at the windshield header (Fig. 2). The purpose of the paper is to protect the roof panel from scratches, and to define the area to be demagnetized.

(7) Plug in the degaussing tool, while keeping the tool at least 61 centimeters (2 feet) away from the compass unit.

(8) Slowly approach the center line of the roof panel at the windshield header, with the degaussing tool plugged in.

(9) Contact the roof panel with the plastic coated tip of the degaussing tool. Be sure that the template is in place to avoid scratching the roof panel. Using a slow, back-and-forth sweeping motion, and allowing 13 millimeters (0.50 inch) between passes, move the



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Fig. 2 Roof Demagnetizing Pattern

tool at least 11 centimeters (4 inches) to each side of the roof center line, and 28 centimeters (11 inches) back from the windshield header.

(10) With the degaussing tool still energized, slowly back it away from the roof panel. When the tip of the tool is at least 61 centimeters (2 feet) from the roof panel, unplug the tool.

(11) Calibrate the compass and adjust the compass variance as described in the Service Procedures section of this group.

REMOVAL AND INSTALLATION

OVERHEAD CONSOLE

(1) Disconnect and isolate the battery negative cable.

(2) Remove the two screws located forward of the display module that secure the overhead console to the upper windshield opening reinforcement (Fig. 3).

(3) To release the overhead console from the rear mounting bracket, use your fingertips to gently pull the sides of the overhead console housing outward near the rear mounting bracket.

(4) Move the overhead console forward to disengage the rear mounting tab from the headliner.

REMOVAL AND INSTALLATION (Continued)

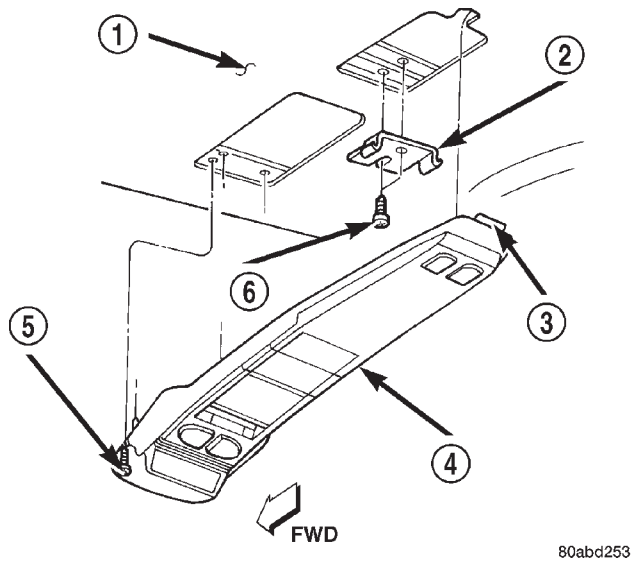


Fig. 3 Overhead Console Remove/Install

- 1 - HEADLINER
- 2 - REAR BRACKET
- 3 - REAR MOUNTING TAB
- 4 - OVERHEAD CONSOLE
- 5 - SCREW
- 6 - SCREW

(5) Lower the overhead console far enough to access the two wire harness connectors.

(6) Unplug one wire harness connector near the push button module towards the front of the overhead console.

(7) Unplug one wire harness connector from the Remote Keyless Entry (RKE) receiver near the center of the overhead console, if the vehicle is so equipped.

(8) Remove the overhead console from the headliner.

(9) Reverse the removal procedures to install. Tighten the overhead console mounting screws to 2.7 N·m (24 in. lbs.).

TRIP COMPUTER, COMPASS, AND THERMOMETER DISPLAY MODULE

(1) Remove the overhead console from the vehicle. See Overhead Console in this group for the procedures.

(2) Remove the two screws that secure the forward end of the trip computer, compass, and thermometer display module to the overhead console housing (Fig. 4).

(3) Gently flex the sides of the overhead console housing as required to release the trip computer, compass, and thermometer display module mounting pins.

(4) Pull the trip computer, compass, and thermometer display module away from the overhead console

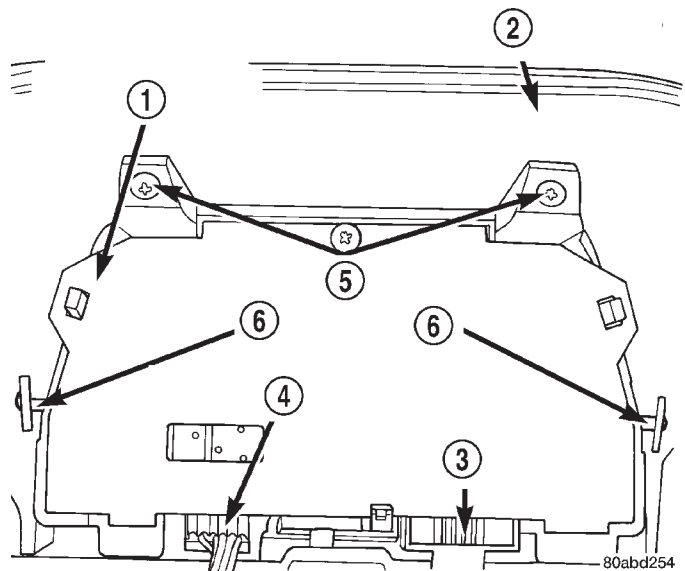


Fig. 4 Trip Computer, Compass, and Thermometer Display Module Remove/Install

- 1 - TRIP COMPUTER, COMPASS AND THERMOMETER DISPLAY MODULE
- 2 - OVERHEAD CONSOLE HOUSING
- 3 - PUSH BUTTON MODULE CONNECTOR
- 4 - OVERHEAD CONSOLE WIRE HARNESS CONNECTOR
- 5 - MOUNTING SCREWS
- 6 - MOUNTING PINS

housing far enough to access the two wire harness connectors.

(5) Unplug the overhead console and push button module wire harness connectors from the trip computer, compass, and thermometer display module.

(6) Remove the trip computer, compass, and thermometer display module from the overhead console housing.

(7) Reverse the removal procedures to install. Tighten the mounting screws to 2.2 N·m (20 in. lbs.).

PUSH BUTTON MODULE

(1) Remove the overhead console from the vehicle. See Overhead Console in this group for the procedures.

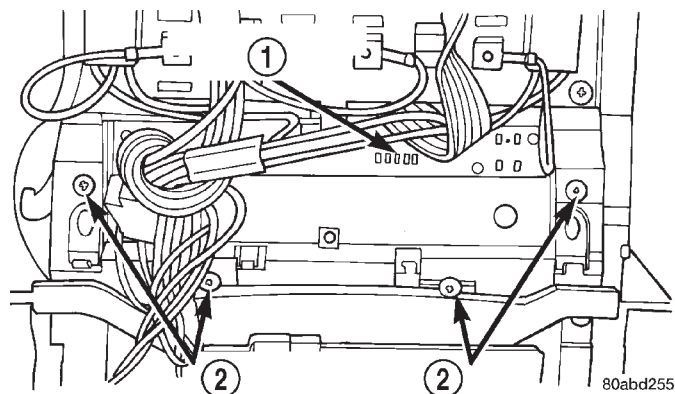
(2) Unplug the push button module wire harness connector from the trip computer, compass, and thermometer display module.

(3) Remove the four screws that secure the push button module to the overhead console housing (Fig. 5).

(4) Remove the push button module from the overhead console.

(5) Reverse the removal procedures to install. Tighten the mounting screws to 2.2 N·m (20 in. lbs.).

REMOVAL AND INSTALLATION (Continued)

**Fig. 5 Push Button Module Remove/Install**

1 - PUSH BUTTON MODULE

2 - MOUNTING SCREWS

READING AND COURTESY LAMP BULB

(1) Disconnect and isolate the battery negative cable.

(2) Insert a long, narrow, flat-bladed tool in the notch on the edge of the reading and courtesy lamp lens.

(3) Gently pry the lens downward from the overhead console housing and pivot the lens down. It may be necessary to move the tool along the edge of the lens to free the lens from the console housing.

(4) Unsnap the bulb from the bulb holders by pulling the bulb gently downwards.

(5) Install a new bulb by aligning its base with the bulb holders and pushing the bulb firmly into place.

(6) Pivot the lens back up into position and press upward firmly until it snaps into place.

(7) Connect the battery negative cable.

(8) Test the lamp by depressing the lens to check for proper lamp switching and lighting.

GARAGE DOOR OPENER STORAGE BIN DOOR

(1) Open the garage door opener storage bin door.

(2) Using a trim stick or another suitable wide flat-bladed tool, gently pry between the door pivot pin and the pivot hole on one side of the overhead console housing until the pivot pin clears the pivot hole.

(3) Use a gentle twisting action to remove the garage door opener storage bin door from the overhead console housing.

(4) To install, insert the pivot pin on one side of the door into the pivot hole in the overhead console housing. Gently depress the pivot pin on the other side of the door until it clears the side of the garage door opener storage bin opening of the overhead console housing, and push the door into the opening. Guide the door into the opening so that the second pivot pin snaps into its pivot hole.

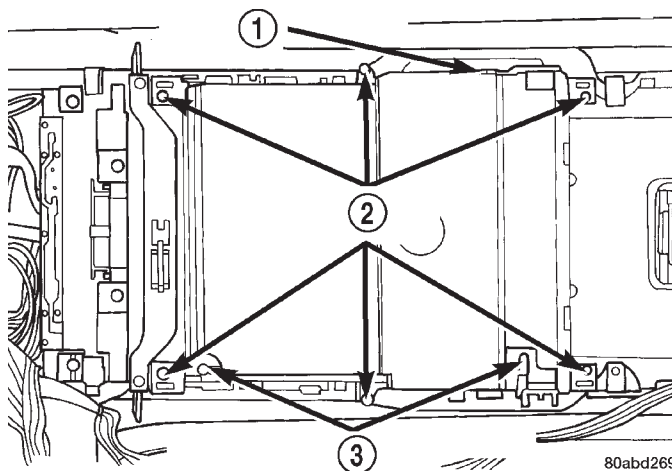
SUNGLASSES STORAGE BIN

The sunglasses storage bin door and bin, housing, damper, spring and latch are serviced only as a unit. Remove the sunglasses storage bin module from the overhead console as follows:

(1) Remove the overhead console from the vehicle. See Overhead Console in this group for the procedures.

(2) Disengage the overhead console courtesy lamp wire harness from the retainers molded into the sunglasses storage bin housing.

(3) Remove the six screws that secure the sunglasses storage bin module to the overhead console housing (Fig. 6).

**Fig. 6 Sunglasses Storage Bin Module Remove/Install**

1 - SUNGLASSES STORAGE BIN MODULE

2 - MOUNTING SCREWS

3 - WIRE HARNESS RETAINERS

(4) Remove the sunglasses storage bin module from the overhead console.

(5) Reverse the removal procedures to install. Tighten the mounting screws to 2.2 N·m (20 in. lbs.).

AMBIENT TEMPERATURE SENSOR

(1) Disconnect and isolate the battery negative cable.

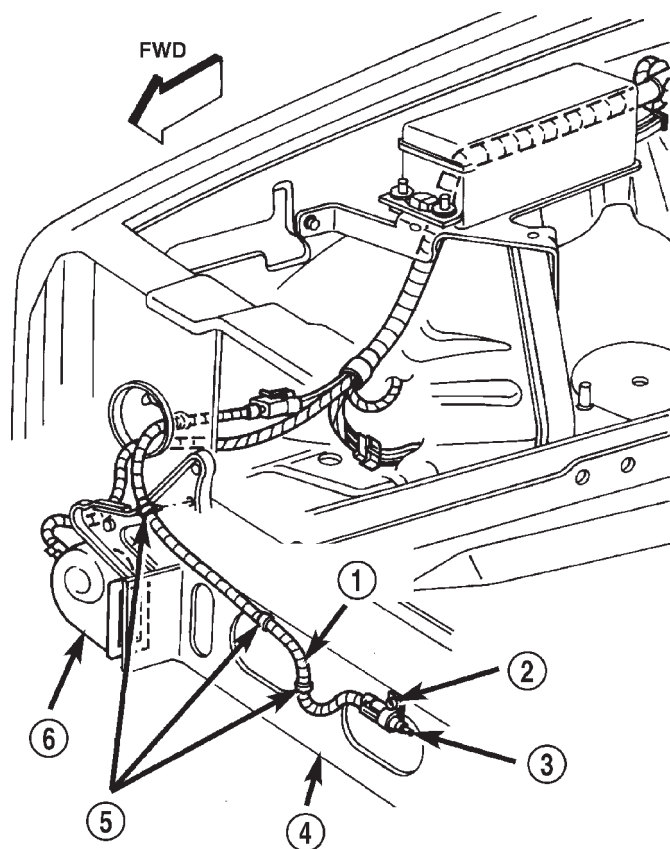
(2) Locate the ambient temperature sensor, below the grille and behind the front bumper on the radiator support crossmember (Fig. 7).

(3) Unplug the ambient temperature sensor wire harness connector.

(4) Remove the screw that secures the ambient temperature sensor to the radiator support crossmember.

(5) Remove the ambient temperature sensor from the vehicle.

REMOVAL AND INSTALLATION (Continued)



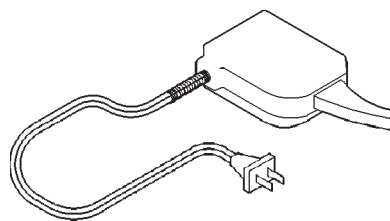
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Fig. 7 Ambient Temperature Sensor Remove/Install

- 1 - WIRE HARNESS
- 2 - SCREW
- 3 - SENSOR
- 4 - RADIATOR SUPPORT CROSSMEMBER
- 5 - CLIPS
- 6 - HORN

SPECIAL TOOLS

COMPASS

**Degaussing Tool 6029**

(6) Reverse the removal procedures to install. Tighten the ambient temperature sensor mounting screw to 3.4 N·m (30 in. lbs.).

