

# RESTRAINT SYSTEM

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## GENERAL INFORMATION

### WARNINGS AND PRECAUTIONS

**WARNING:** THIS SYSTEM IS A SENSITIVE, COMPLEX ELECTRONIC UNIT. DISCONNECT AND ISOLATE THE BATTERY NEGATIVE REMOTE CABLE BEFORE BEGINNING AIRBAG SYSTEM COMPONENT REMOVAL OR INSTALLATION PROCEDURES. THIS WILL DISABLE THE AIRBAG SYSTEM. FAILURE TO DISCONNECT THE BATTERY COULD RESULT IN ACCIDENTAL AIRBAG DEPLOYMENT AND POSSIBLE PERSONAL INJURY.

ALLOW SYSTEM CAPACITOR TO DISCHARGE FOR TWO MINUTES BEFORE REMOVING AIRBAG COMPONENTS.

DO NOT PLACE AN INTACT UNDEPLOYED AIRBAG FACE DOWN ON A SOLID SURFACE, THE AIRBAG WILL PROPEL INTO THE AIR IF ACCIDENTALLY DEPLOYED AND COULD RESULT IN PERSONAL INJURY. WHEN CARRYING OR HANDLING AN UNDEPLOYED AIRBAG MODULE, THE TRIM SIDE OF THE AIRBAG SHOULD BE POINTING AWAY FROM THE BODY TO MINIMIZE POSSIBILITY OF INJURY IF ACCIDENTAL DEPLOYMENT OCCURS.

REPLACE AIRBAG SYSTEM COMPONENTS WITH MOPAR® REPLACEMENT PARTS. SUBSTITUTE PARTS MAY APPEAR INTERCHANGEABLE, BUT INTERNAL DIFFERENCES MAY RESULT IN INFERIOR OCCUPANT PROTECTION.

WEAR SAFETY GLASSES, RUBBER GLOVES, AND LONG SLEEVED CLOTHING WHEN CLEANING POWDER RESIDUE FROM VEHICLE AFTER AIRBAG

DEPLOYMENT. SODIUM HYDROXIDE POWDER RESIDUE EMITTED FROM A DEPLOYED AIRBAG CAN CAUSE SKIN IRRITATION. FLUSH AFFECTED AREA WITH COOL WATER IF IRRITATION IS EXPERIENCED. IF NASAL OR THROAT IRRITATION IS EXPERIENCED, EXIT THE VEHICLE FOR FRESH AIR UNTIL THE IRRITATION CEASES. IF IRRITATION CONTINUES, SEE A PHYSICIAN.

DO NOT USE A REPLACEMENT AIRBAG THAT IS NOT IN THE ORIGINAL PACKAGING, IMPROPER DEPLOYMENT AND PERSONAL INJURY CAN RESULT.

THE FACTORY INSTALLED FASTENERS, SCREWS AND BOLTS USED TO FASTEN AIRBAG COMPONENTS HAVE A SPECIAL COATING AND ARE SPECIFICALLY DESIGNED FOR THE AIRBAG SYSTEM. DO NOT USE SUBSTITUTE FASTENERS, USE ONLY ORIGINAL EQUIPMENT FASTENERS LISTED IN THE PARTS CATALOG WHEN FASTENER REPLACEMENT IS REQUIRED.

**NOTE:** Airbags should be stored in a cool dry location away from excessive heat and static electrical activity with the fabric airbag facing UP, or a premature deployment can result.

If the Driver/Passenger Airbag Module is defective and not deployed, refer to Chrysler Corporation current return list for proper handling procedures.

## DESCRIPTION AND OPERATION

### AIRBAG CONTROL MODULE

The Airbag Control Module (ACM) contains the accelerometer and energy reserve capacitor. The ACM is mounted on the tunnel floor pan, forward of the center console. The accelerometer is located inside the ACM. The accelerometer provides confirmation of a crash, discriminating severity. The ACM monitors the system to determine the system readiness. The ACM may store sufficient energy to deploy the airbags for only two minutes after the battery is disconnected. The ACM contains on-board diagnostics, and will illuminate the AIRBAG warning lamp on the cluster when a fault occurs. The warning equipment is tested for a few seconds every time the vehicle is started.

### CLOCKSPRING

The clockspring is mounted to the steering column behind the steering wheel. The clockspring is used to maintain a continuous electrical circuit between the wiring harness and the:

- Driver's airbag module
- Speed control switches
- Horn switch

The clockspring consists of a flat, ribbon like, electrically conductive tape which winds and unwinds with the steering wheel rotation.

### DRIVER AND PASSENGER AIRBAG MODULES

**WARNING: NEVER DISASSEMBLE THE DRIVER/PASSENGER AIRBAG MODULES, THERE ARE NO SERVICEABLE PARTS WITHIN THE MODULES.**

#### DRIVER AIRBAG MODULE

The Driver Airbag Module is packaged in the steering wheel (Fig. 1). It contains the airbag cushion and its supporting components. The driver's airbag module contains a housing to which the cushion and inflator are attached and sealed. A membrane horn switch is integral to the airbag module cover.

The driver side inflator assembly is mounted from the back of the module housing. When supplied with the proper electrical signal the inflator assembly will produce a gas and discharge it directly into the cushion. A protective cover is fitted to the front of the Driver Airbag Module and forms a decorative cover in the center of the steering wheel. This cover incorporates the integral horn switch. The driver airbag module is mounted directly to the steering wheel.

#### PASSENGER

The Passenger Airbag Module is located beneath the instrument panel and pad assembly (Fig. 1).

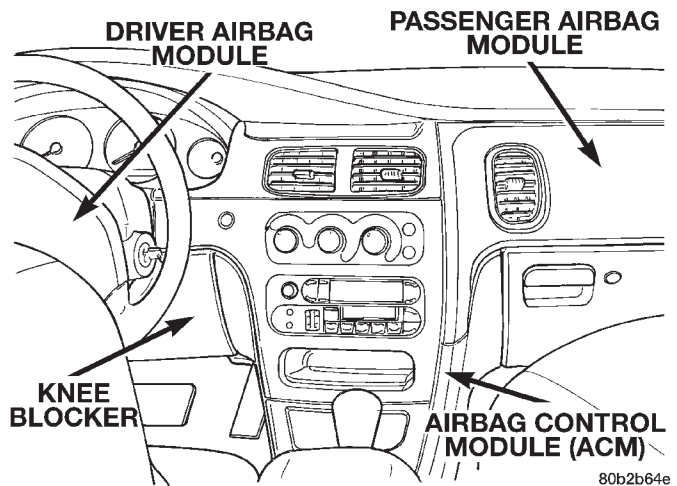


**Fig. 1 Airbag System Component Location**

The passenger inflator assembly is within the module housing. The module is mounted to the upper and lower instrument panel. When supplied with the proper electrical signal the inflator will produce a gas and discharge it directly into the cushion. Upon deployment, the instrument panel upper cover will tear open and allow the passenger airbag to fully inflate.

### FRONT IMPACT SENSOR

The Driver and Passenger Airbag System is a supplemental safety device designed to help protect the driver and passenger from serious injury, caused by a frontal impact of the vehicle.

The Airbag Control Module's (ACM) internal impact sensor provides verification of the direction and severity of an impact. The sensor is mounted within the ACM.

The Airbag Control Module (ACM) uses data collected from its internal accelerometers to discriminate the direction and severity of an impact. The ACM will activate power stages internal to the module in order to deploy the driver and passenger side airbags once a predetermined threshold has been exceeded. The ACM is calibrated for a particular vehicle family and uses an advanced software algorithm to discriminate the severity and direction of any vehicle event.

## DIAGNOSIS AND TESTING

### AIRBAG SYSTEM TEST

(1) Open hood and disconnect the negative battery cable remote terminal from the remote battery post (Fig. 2).

(2) Connect scan tool (DRB) to Data Link connector, located on the left side of the steering column and at the lower edge of the instrument panel.

## DIAGNOSIS AND TESTING (Continued)

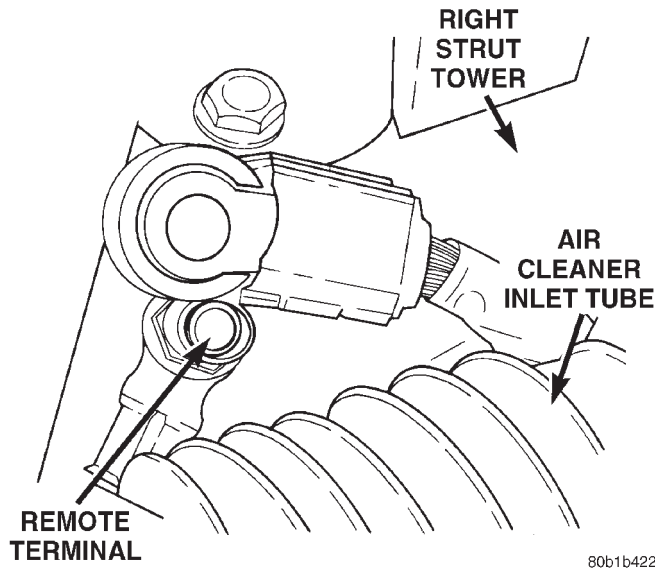


**Fig. 2 Negative Battery Cable Remote Terminal**

(3) Turn the ignition key to ON position. Exit vehicle with scan tool. Use the latest version of the proper cartridge.

(4) After checking that no one is inside the vehicle, connect the battery negative remote terminal.

(5) Using the scan tool, read and record active diagnostic code data.

(6) Read and record any stored diagnostic codes.

(7) Refer to the Passive Restraint Diagnostic Procedures Manual if any diagnostic codes are found in Step 6 or Step 7.

(8) Erase stored diagnostic codes if there are no active diagnostic codes. If problems remain, diagnostic codes will not erase. Refer to the Passive Restraint Diagnostic Test Manual to diagnose the problem. **If airbag warning lamp either fails to light, or goes on and stays on, there is a system malfunction. Refer to the Passive Restraint Diagnostic Procedures Manual to diagnose the problem.**

## SERVICE PROCEDURES

## CLEANUP PROCEDURE

Roll or fold the passenger airbag towards the instrument panel surface and tuck into instrument panel into module area. Then tape the ripped instrument panel pad over the deployed airbag.

Use a vacuum cleaner to remove any residual powder from the vehicle interior. Work from the outside in to avoid kneeling or sitting in a contaminated area. Vacuum the heater and A/C outlets as well (Fig. 3). If the heater or air conditioner was in RECIRC mode at time of airbag deployment, operate blower motor on low speed and vacuum powder residue

expelled from the heater and A/C outlets. Multiple vacuum cleaning may be necessary to decontaminate the interior of the vehicle.

Place the deployed driver and passenger airbag modules along with the instrument panel and center duct in your automotive scrap.

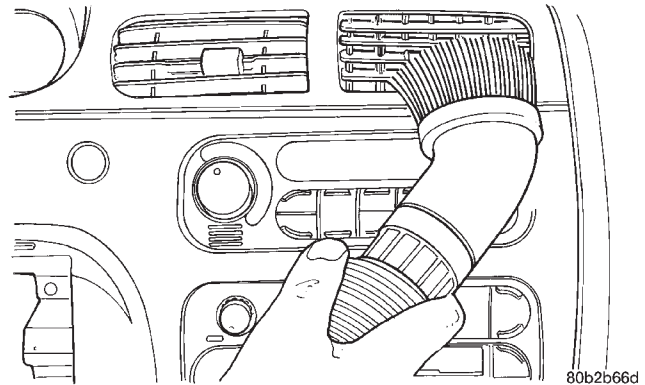


**Fig. 3 Vacuum Heater and A/C Outlets**

## SERVICE OF DEPLOYED AIRBAG MODULE

## DRIVER AIRBAG

After a Driver Airbag Module has been deployed due to a collision, the following must be replaced:

- Driver Airbag Module
- Clockspring Assembly
- Steering Wheel
- Complete Steering Column Assembly with shrouds and Lower Steering Column Coupler

The component above must be replaced because they cannot be reused. Other driver airbag system components are replaced if damaged.

## PASSENGER AIRBAG

After a Passenger Airbag Module has been deployed due to a collision, the following must be replaced:

- Passenger Airbag Module
- Instrument Panel and Pad Assembly

The components above must be replaced because of visible or non visible structural damage.

Any other components should be replaced if damaged.

## HANDLING AIRBAG MODULE

## DEPLOYED MODULE

The vehicle interior may contain a very small amount of potassium hydroxide powder, a by-product of airbag deployment. Sodium hydroxide powder can irritate the skin, eyes, nose and throat. Wear safety glasses, rubber gloves, and long sleeved clothing when cleaning any of the powder residue from the vehicle.

## SERVICE PROCEDURES (Continued)

If you find that the cleanup is irritating your skin, run cool water over the affected area. Also, if you experience nasal or throat irritation, exit the vehicle for fresh air until the irritation ceases. If irritation continues, see a physician.

**UNDEPLOYED**

The airbag modules must be stored in its original special container until used for service. At no time should a source of electricity be permitted near the inflator on the back of an airbag module. When carrying or handling an undeployed airbag module, the trim side of the airbag should be pointing away from the body to minimize possibility of injury if accidental deployment occurs. Do not place undeployed airbag face down on a solid surface, the airbag will propel into the air if accidental deployment occurs.

**MAINTENANCE INSPECTION**

Check the airbag warning lamp for proper operation as follows:

(1) Turn the ignition switch to the ON position. The airbag warning lamp should illuminate. If does not, test the system using a scan tool and Passive Restraint System Diagnostic Procedures Manual. Repair as required.

(2) The airbag warning lamp lights, but fails to go out after ten seconds. Test the system using a scan tool and Passive Restraint Diagnostic Procedures Manual. Repair as required.

**REMOVAL AND INSTALLATION****AIRBAG CONTROL MODULE (ACM)**

**WARNING: THE ACM CONTAINS AN ACCELEROMETER WHICH ENABLES THE SYSTEM TO DEPLOY THE AIRBAGS. TO AVOID ACCIDENTAL DEPLOYMENT, NEVER CONNECT ACM ELECTRICALLY TO THE SYSTEM WHILE VEHICLE BATTERY IS CONNECTED. BEFORE BEGINNING ANY AIRBAG SYSTEM REMOVAL OR INSTALLATION PROCEDURES, DISCONNECT AND ISOLATE THE BATTERY NEGATIVE REMOTE (GROUND) CABLE. THIS WILL DISABLE THE AIRBAG SYSTEM. FAILURE TO DO THIS COULD RESULT IN ACCIDENTAL AIRBAG DEPLOYMENT, AND POSSIBLE PERSONAL INJURY.**

**FIVE PASSENGER VEHICLE****REMOVAL**

(1) Open hood and disconnect the negative battery cable remote terminal from the remote battery post (Fig. 2).

**NOTE: If working on a Concorde, the Instrument Panel must be removed. Refer to Group 8E, Instrument Panel and Systems for Removal and Installation procedures. Then go to Step 11.**

- (2) Remove one screw to shift knob.
- (3) Remove two screws to shifter bezel.
- (4) Disconnect power outlet connector and remove bezel from vehicle.
- (5) Remove left instrument panel endcap covering junction block.
- (6) Remove two screws to steering column cover then pull toward rear of vehicle to disengage clips.
- (7) Open glove box door. Continue to pull down on the door until the glove box drops and you see the screws in the upper and lower left corner or the glove box bin.
- (8) Pull the right console side panel off.
- (9) Remove two screws to left console side panel and pull off.
- (10) With the Airbag Control Module (ACM) now exposed, slide the red Correct Position Assurance (CPA) tab out. Press down on the locking latch and disconnect the ACM 23-way connector.
- (11) Remove the two side module mounting screws on the drivers side.
- (12) Loosen the top screw on the drivers side.
- (13) Lift up the module and slide out the ACM.

**NOTE: If the module cannot be lifted out, the passenger side screw needs some additional loosening.**

- (14) Remove the ACM from vehicle.

**INSTALLATION**

**WARNING: THE ACM IS A SAFETY MODULE AND FAILURE TO INSTALL AND SECURE IT PROPERLY, COULD CAUSE THE MODULE TO POSSIBLY MALFUNCTION.**

- (1) Position the ACM (arrow pointing forward in vehicle) on the ACM mounting bracket. The mounting bosses on the module will correctly position the ACM on the bracket. Attach the ACM to the bracket with the three screws supplied and torque to 50 to 70 in.lbs. (5.7 to 7.9 N·m).

**CAUTION: USE SUPPLIED SCREWS ONLY.**

- (2) Reverse the above procedures for continued installation.

**CAUTION: Do not connect negative battery cable remote terminal. Refer to Airbag System Check in this section for proper procedure.**

## REMOVAL AND INSTALLATION (Continued)

## SIX PASSENGER VEHICLE

## REMOVAL

(1) Open hood and disconnect the negative battery cable remote terminal from the remote battery post (Fig. 2).

(2) Open glove box door and release side tabs and swing down.

**NOTE: If working on a Concorde, the Instrument Panel must be removed. Refer to Group 8E, Instrument Panel and Systems for Removal and Installation procedures. Then go to Step 11.**

(3) Remove the left endcap at the junction block.

(4) Remove two screws to steering column cover then pull toward rear of vehicle to disengage clips.

(5) Open glove box door. Continue to pull down on the door until the glove box drops and you see the screws in the upper and lower left corner or the glove box bin.

(6) Remove the instrument panel center bezel. The temperature control module, power outlet and traction control switch will pop out with the center bezel.

(7) Disconnect the connectors at center bezel.

(8) Remove four screws to Chin bezel. Two on the right side and two on the left side of vehicle.

(9) Remove one screw and one push fastener retaining floor bin.

(10) With the Airbag Control Module (ACM) now exposed, slide the red Correct Position Assurance (CPA) tab out. Press down on the locking latch and disconnect the ACM 23-way connector.

(11) Remove the two side module mounting screws on the drivers side.

(12) Loosen the top screw on the drivers side.

(13) Lift up the module and slide out the ACM.

**NOTE: If the module cannot be lifted out, the passenger side screw needs some additional loosening.**

(14) Remove the ACM from vehicle.

## INSTALLATION

**WARNING: THE ACM IS A SAFETY MODULE AND FAILURE TO INSTALL AND SECURE IT PROPERLY, COULD CAUSE THE MODULE TO POSSIBLY MALFUNCTION.**

(1) Position the ACM (arrow pointing forward in vehicle) on the ACM mounting bracket. The mounting bosses on the module will correctly position the ACM on the bracket. Attach the ACM to the bracket with the three screws supplied and torque to 50 to 70 in.lbs. (5.7 to 7.9 N·m).

**CAUTION: USE SUPPLIED SCREWS ONLY.**

(2) Reverse the above procedures for continued installation.

**CAUTION: Do not connect negative battery cable remote terminal. Refer to Airbag System Check in this section for proper procedure.**

## CLOCKSPRING

## REMOVAL

(1) Place the front road wheels in the straight ahead position then:

- Rotate the steering wheel half turn (180 degrees) to the right (clockwise)
- Lock column with ignition lock cylinder.

(2) Open hood and disconnect the negative battery cable remote terminal from the remote battery post (Fig. 2).

(3) Wait two minutes for the reserve capacitor to discharge before removing non deployed module.

(4) Remove speed control switch mounting screws, from the back of the steering wheel, and disconnect the wire connectors or remove covers.

(5) Remove the Driver Airbag Module attaching bolts.

(6) Lift module and disconnect the airbag and horn wire connectors.

(7) Remove the steering wheel. Refer to Group 19, Steering for Removal and Installation procedures.

(8) Remove the tilt wheel release lever.

(9) Remove upper and lower steering column shrouds to gain access to clockspring wiring.

(10) Disconnect the 2-way and 4-way connectors between the clockspring and the instrument panel wiring harness at the base of the clockspring.

(11) Remove two mounting screws and pull clockspring assembly from steering shaft. The clockspring cannot be repaired, and must be replaced if faulty.

## INSTALLATION

(1) Confirm that:

- The steering wheel position is a half turn (180 degrees) to the right (clockwise)
- The column is locked with the ignition cylinder lock.
- Locate the clockspring on the steering shaft and push down on the rotor until the clockspring is fully seated on the steering column.

• Fasten clockspring to steering column using the two mounting screws and torque screws to 24 in. lbs. (2.7 N·m).

(2) Connect the clockspring to the instrument panel harness, ensure wiring is properly routed.

## REMOVAL AND INSTALLATION (Continued)

Then check that the connectors, locking tabs are properly engaged.

(3) Install steering column shrouds. Be sure all wires are inside of shrouds.

(4) Install the tilt wheel release lever, if equipped.

(5) Install steering wheel ensuring the flats on hub align with the clockspring. Tighten steering wheel nut to 61 N·m (45 ft. lbs.) torque. Pull all wires over the top of the hub area on the steering wheel. Ensure leads do not get pinched under the steering wheel.

(6) Unlock the steering column with the ignition lock cylinder. Return the steering wheel to the upright position (180° counterclockwise).

(7) Route speed control wires under and behind the airbag module mounting tabs.

(8) Connect the yellow horn lead wire and the airbag lead wire to the airbag module.

(9) Install the airbag module and torque bolts to 7-9 N·m (65-85 in. lbs.) torque.

(10) Connect the speed control wires to the switches and install switches. Torque screws to 1.5 N·m (13 in. lbs.) torque.

(11) Do not connect the battery negative cable remote terminal. Refer to Airbag System Check for proper procedure.

**DRIVER AIRBAG MODULE****REMOVAL**

When removing a deployed module, rubber gloves, eye protection and long sleeved shirt should be worn, as there may be deposits on the surface which could irritate the skin and eyes.

(1) Open hood and disconnect the negative battery cable remote terminal from the remote battery post (Fig. 2).

(2) Remove speed control switch screws from steering wheel back shroud, remove switches and disconnect the wires.

(3) Remove two bolts retaining Driver Airbag Module.

(4) Lift module and disconnect airbag and horn wire connectors.

(5) Remove Driver Airbag Module from vehicle.

**WARNING: When replacing a deployed Driver Airbag Module, the clockspring must also be replaced. Refer to Clockspring Removal and Installation in this section for proper procedure.**

**INSTALLATION**

(1) Connect clockspring, horn and airbag wiring connectors to the module. Make airbag connection by pressing straight in on the connector. The connector should be fully seated to assure positive connection. Insert Positive Connection Assurance (PCA) tab.

Check that the wires are not pinched during installation.

(2) Install the airbag screws and tighten to 7 to 9 N·m (65 to 85 in. lbs.) torque.

(3) Connect the wire connectors to the speed control switches and install switches. Tighten speed control screws to 1.5 N·m (13 in. lbs.).

(4) Do not connect battery negative cable remote terminal. Refer to Diagnosis and Testing for Airbag System Test procedures.

**PASSENGER AIRBAG MODULE****NON DEPLOYED MODULE**

When removing a module for any reason other than DEPLOYMENT.

The instrument panel must be removed for Passenger Airbag Module service.

**REMOVAL**

(1) Open hood and disconnect the negative battery cable remote terminal from the remote battery post (Fig. 2).

(2) Remove instrument panel and pad assembly. Refer to Group 8E, Instrument Panel and Systems for Removal and Installation procedures. Place instrument panel on bench for easier service of the passenger airbag module.

(3) Remove four screws to glove box door.

**STEPS #4 - 7 ARE FOR SIX PASSENGER VEHICLES ONLY.**

(4) Remove ashtray receiver door snapped into place.

(5) Remove four screws to the chin bezel and release two clips by gently pulling rearward to disengage.

(6) Using a trim stick (special tool #C-4755), gently pry out on the center bezel assembly.

(7) Disconnect the harness connectors at the power outlet and temperature control.

(8) Remove eight screws to glovebox closeout assembly.

(9) Disconnect glovebox lamp switch.

(10) Rotate the instrument panel to expose rear side.

(11) Remove three screws to rod and boot assembly.

(12) Remove five screws to left and right demister ducts.

(13) Remove five screws to center and right distribution duct assembly.

(14) Disconnect the one yellow wire harness connector from the airbag module assembly and the three fasteners.

(15) Remove two screws to the left pencil strut.

(16) Remove two screws to the right pencil strut.

## REMOVAL AND INSTALLATION (Continued)

(17) Remove four #25 torx head and five screws to the airbag module assembly.

(18) Remove the airbag module assembly from the instrument panel retainer.

(19) Remove four screws to the reinforcement brace on the old airbag module.

### INSTALLATION

For installation, reverse the above procedures. Refer to Diagnosis and Testing for Airbag System Test procedures.

### DEPLOYED MODULE

The instrument panel must be removed for Passenger Airbag Module service.

### REMOVAL

When removing a deployed module: rubber gloves, eye protection, and a long-sleeved shirt should be worn. There may be deposits on the surface which could irritate the skin and eyes.

(1) Open hood and disconnect the negative battery cable remote terminal from the remote battery post (Fig. 2).

(2) Roll or fold the passenger airbag towards the instrument panel surface and tuck into instrument panel into module area. Then tape the ripped instrument panel pad over the deployed airbag.

(3) Remove instrument panel and pad assembly. Refer to Group 8E, Instrument Panel and Systems for Removal and Installation procedures.

(4) Remove Passenger Airbag Module. Refer to Passenger Airbag Removal and Installation in this section for a Non-Deployed Module.

### INSTALLATION

(1) Transfer all instrument panel components which are not damaged to NEW instrument panel and pad assembly. Tighten screws to 2 N·m (20 in. lbs.) torque.

(2) Install the NEW Passenger Airbag Module to instrument panel and pad assembly. Torque screws to 4.8 N·m (45 in. lbs.) torque.

(3) For installation of passenger airbag module, reverse procedures outlined in the Non Deployed Module removal procedure.

(4) For installation of the instrument panel, reverse the procedures outlined in Group 8E, Instrument Panel and Systems.

(5) Do not connect battery negative cable remote terminal. Refer to Diagnosis and Testing for Airbag System Test procedures.

## STEERING WHEEL

### REMOVAL

(1) Place the front road wheels in the straight ahead position then:

- Rotate the steering wheel half turn (180 degrees) to the right (clockwise)

- Lock column with the ignition cylinder lock

(2) Open hood and disconnect the negative battery cable remote terminal from the remote battery post (Fig. 2).

(3) Wait two minutes for the reserve capacitor to discharge before removing non deployed module.

(4) Remove speed control switches and connectors or covers.

(5) Remove the airbag module attaching bolts on the front of the steering wheel.

(6) Lift module and disconnect the airbag and horn wire connectors.

(7) Remove steering wheel retaining nut.

(8) Remove steering wheel with steering wheel puller Tool C-3428B. While removing steering wheel take care to feed the wires gently through the holes in the clockspring armature.

### INSTALLATION

(1) Confirm that:

- The steering wheel position is a half turn (180 degrees) to the right (clockwise)

- The column is locked with the ignition cylinder lock.

- Check that the turn signal stalk is in the neutral position

(2) Install steering wheel ensuring the flats on hub align with the clockspring. Pull all wires over the top of the hub area on the wheel. Pull the airbag and speed control leads through the larger slot. Ensure leads do not get pinched under the steering wheel.

(3) Install retaining nut, and tighten it to 61 N·m (45 ft. lbs.) torque.

(4) Route speed control wires through the slots in the steering wheel back cover.

(5) Connect the yellow horn lead wire and the airbag lead wire to the airbag module.

(6) Install the airbag module and tighten bolts to 12 to 14 N·m (105 to 125 in. lbs.) torque.

(7) Connect the speed control wires to the switches and install switches. Tighten screws to 1.4 to 2.0 N·m (12 to 18 in. lbs.) torque.

(8) Do not connect the battery negative cable remote terminal. Refer to Airbag System Check for proper procedure.

## ADJUSTMENTS

### CLOCKSPRING CENTERING PROCEDURE

If the rotating tape within the clockspring is not positioned properly with the steering wheel and the front wheels, the clockspring may fail during use. The following procedure **MUST BE USED** to center the clockspring if:

- The clockspring is not known to be properly positioned
- The front wheels were moved with the steering wheel off
- The steering wheel was moved from the half turn (180 degrees) to the right (clockwise) position.

(1) Remove steering wheel. Refer to Steering Wheel Removal and Installation procedures in this section.

(2) After removal, depress the plastic locking pin to disengage locking mechanism.

(3) Keeping locking mechanism disengaged, rotate the clockspring rotor until a yellow dot appears in centering window and black arrow lines up with drive pin.

(4) Reinstall steering wheel upside down with wheels turned 180° clockwise.

(5) Do not connect the battery negative cable remote terminal. Refer to Airbag System Check for proper procedure.