

Repair Instructions

SIR Service Precautions

Caution: When you are performing service on or near the SIR components or the SIR wiring, you must disable the SIR system. Refer to *Disabling the SIR System*. Failure to follow the correct procedure could cause air bag deployment, personal injury, or unnecessary SIR system repairs.

The inflatable restraint sensing and diagnostic module (SDM) maintains a reserve energy supply. The reserve energy supply provides deployment power for the air bags. Deployment power is available for as much as 10 minutes after disconnecting the vehicle power by any of the following methods:

- You turn the ignition switch to the OFF position.
- You remove the fuse that provides power to the SDM.
- You disconnect the vehicle battery from the vehicle electrical system.

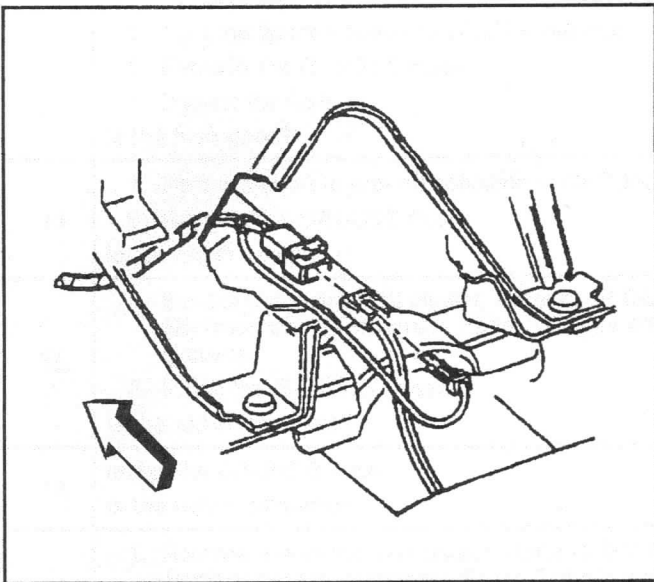
Disabling the SIR system prevents deploying of the air bags from the reserve energy supply power.

Disabling the SIR System

1. Turn the steering wheel so that the vehicle's wheels are pointing straight ahead.
2. Turn the ignition switch to the LOCK position.
3. Remove the key from the ignition switch.

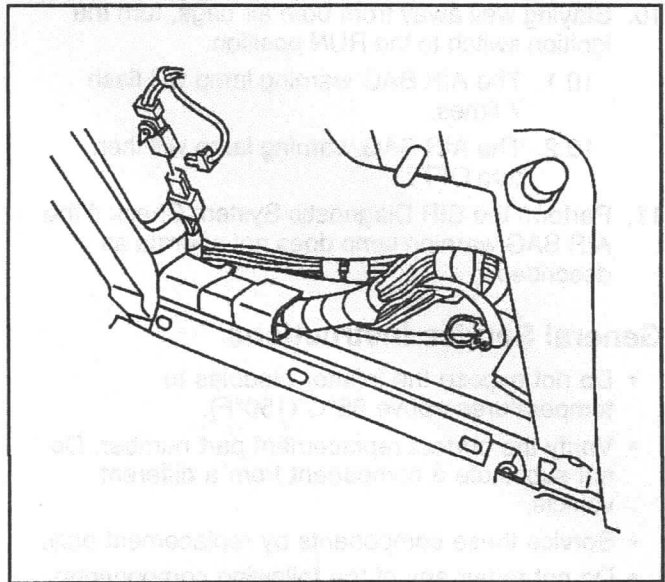
Important: With the SIR Fuse removed and the ignition switch in the ON position, The AIR BAG warning lamp illuminates. This is normal operation, and does not indicate an SIR system malfunction.

4. Remove the SIR Fuse from the IP fuse block.
5. Remove the left sound insulator, if equipped. Refer to *Closeout/Insulator Panel Replacement - Center* in Instrument Panel, Gauges and Console.
6. Remove the knee bolster. Refer to *Trim Panel Replacement - Knee Bolster* in Instrument Panel, Gauges and Console.
7. Disconnect the driver yellow 2-way connector located at the base of the steering column.
8. Open the IP compartment door, lift stop and allow door to fully open.



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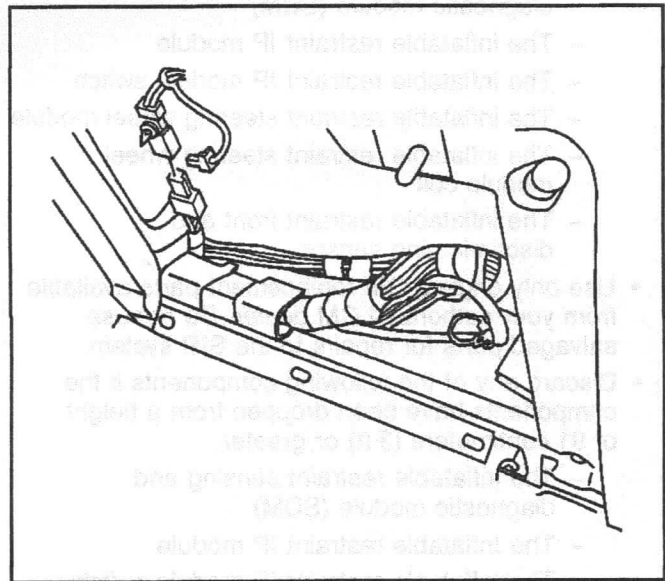
9. Remove the connector position assurance (CPA) from the passenger yellow 2-way connector located behind the glove box.
10. Disconnect the passenger yellow 2-way connector located behind the glove box.



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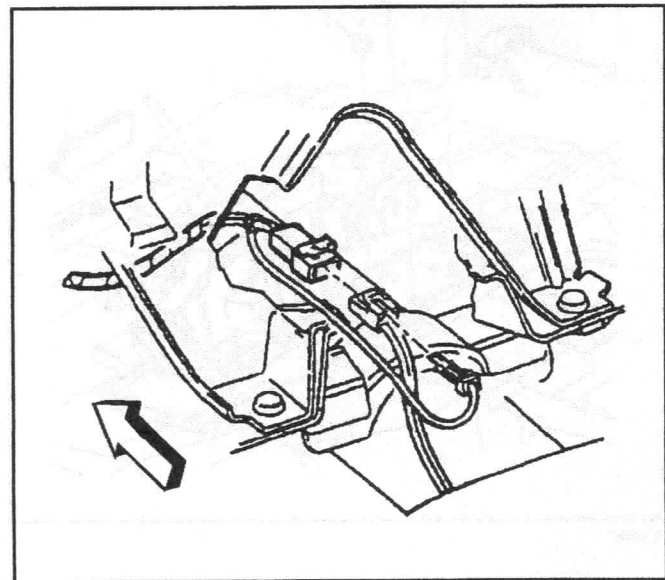
Enabling the SIR System

1. Remove the key from the ignition switch.
2. Connect the passenger yellow 2-way connector located behind the glove box.
3. Install the connector position assurance (CPA) to the passenger yellow 2-way connector located behind the glove box.
4. Close the IP compartment door.



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5. Connect the driver yellow 2-way connector located at the base of the steering column.
6. Install the connector position assurance (CPA) to the driver yellow 2-way connector located at the base of the steering column.
7. Install the knee bolster, if equipped. Refer to *Trim Panel Replacement - Knee Bolster* in Instrument Panel, Gauges and Console.
8. Install the left sound insulator, if equipped. Refer to *Closeout/Insulator Panel Replacement - Center* in Instrument Panel, Gauges and Console.
9. Install the SIR Fuse to the IP fuse block.



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10. Staying well away from both air bags, turn the ignition switch to the RUN position.
 - 10.1. The AIR BAG warning lamp will flash 7 times.
 - 10.2. The AIR BAG warning lamp will then turn OFF.
11. Perform the SIR Diagnostic System Check if the AIR BAG warning lamp does not operate as described.

General Service Instructions

- Do not expose the inflator modules to temperatures above 65°C (150°F).
- Verify the correct replacement part number. Do not substitute a component from a different vehicle.
- Service these components by replacement only.
- Do not repair any of the following components:
 - The inflatable restraint sensing and diagnostic module (SDM)
 - The inflatable restraint IP module
 - The inflatable restraint IP module switch
 - The inflatable restraint steering wheel module
 - The inflatable restraint steering wheel module coil
 - The inflatable restraint front end discriminating sensor
- Use only original GM replacement parts available from your authorized GM dealer. Do not use salvaged parts for repairs to the SIR system.
- Discard any of the following components if the components have been dropped from a height of 91 centimeters (3 ft) or greater.
 - The inflatable restraint sensing and diagnostic module (SDM)
 - The Inflatable restraint IP module
 - The Inflatable restraint IP module switch

- The inflatable restraint steering wheel module
- The inflatable restraint steering wheel module coil
- The Inflatable restraint front end discriminating sensor
- When you replace the SDM, verify that the following conditions are met:
 - The mounting surface is clean.
 - The arrow on the module points toward the front of the vehicle.
 - The module is flat on the mounting surface, parallel to the vehicle datum line.
 - The module fasteners are installed and tightened as specified.
- In order to avoid setting false diagnostic trouble codes, only apply power to the SIR system when one of the following two conditions is met:
 - All SIR system components are properly mounted and electrically connected.
 - A diagnostic procedure directs you to apply power.
- Begin diagnosis of malfunctions with the SIR Diagnostic System Check. Perform the SIR Diagnostic System Check in order to verify the following:
 - The proper operation of the AIR BAG warning lamp.
 - Communication with the SDM through the serial data line.
 - The presence or absence of diagnostic trouble codes.
 - Whether additional diagnosis is required and where the information resides.

Not beginning with the SIR Diagnostic System Check could cause the following:

- Extended diagnostic time
- Incorrect diagnosis
- Unneeded parts replacement

