

PONTIAC

1998-2008 Grand Prix

PRECAUTIONS

Warning: When performing service on or near the SIR components or the SIR wiring, the SIR system must be disabled. Failure to observe the correct procedure could cause deployment of the SIR components, personal injury, or unrequired SIR system repairs.

Warning: Batteries generate hydrogen gas, which is extremely flammable and may explode violently if ignited by a spark or a flame. Battery acid is extremely corrosive and causes severe personal injury if the acid comes into contact with skin, and blindness if the acid comes into contact with eyes. In order to avoid severe personal injury, use extreme caution when servicing the battery or battery-related components.

Warning: Unless directed otherwise, the ignition and start switch must be in the OFF or LOCK position, and all electrical loads must be OFF before servicing any electrical component. Disconnect the battery ground cable to prevent an electrical spark should a tool or equipment come in contact with an exposed electrical terminal. Failure to follow these precautions may result in personal injury and/or damage to the vehicle or its components.

For vehicles equipped with OnStar® (UE1) with Back Up Battery, the back up battery is a redundant power supply to allow limited OnStar® functionality in the event of a main vehicle battery power disruption to the VCIM (OnStar® module). Do not disconnect the main vehicle battery or remove the OnStar® fuse with the ignition key in any position other than OFF. Retained Accessory Power (RAP) should be allowed to time out or be disabled (simply opening the driver door should disable RAP) before disconnecting power. Disconnecting power to the OnStar® module in any way while the ignition is ON or with RAP activated may cause activation of the OnStar® Back Up Battery (BUB) system and will discharge and permanently damage the BUB. Once

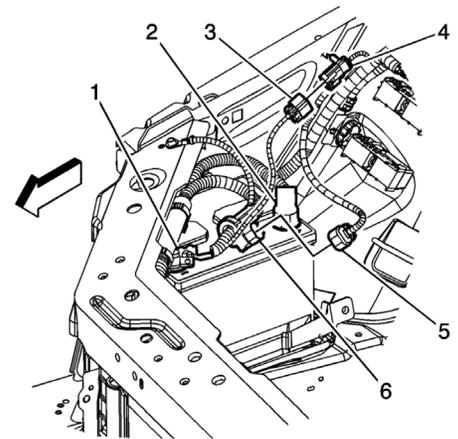
the BUB is activated, it will stay on until it has completely discharged. The BUB is not rechargeable and, once activated, the BUB must be replaced.

BATTERY Removal

1. Record all vehicle preset radio stations.
2. Turn OFF all lamps and accessories.
3. Ensure ignition switch is in OFF position.
4. Loosen battery ground cable terminal nut.
5. Remove battery ground cable terminal (1) from battery, **Fig. 1**.
6. Remove front fender upper diagonal brace to inner fender bolt, **Fig. 2**.
7. Remove front fender upper diagonal brace to radiator support bolts.
8. Remove front fender upper diagonal brace.
9. Lift cover from underhood junction block (2) to access positive cable nut, **Fig. 3**.
10. Remove positive battery cable nut, and position cable (1) away from junction block, **Fig. 3**.
11. Release tabs and pull junction block from housing, **Fig. 4**.
12. Loosen bolts (1) retaining engine, IP and forward lamp wiring harness connectors to junction block, **Fig. 5**.
13. Disconnect wiring harness connectors from junction block, **Fig. 6**.
14. Position positive battery cable terminal cover aside.
15. Loosen positive battery terminal nut.
16. Remove positive battery terminal from battery.
17. Remove battery retainer bolts (1) and retainer (2), **Fig. 7**.
18. Remove battery.

Installation

1. Install battery.
2. Install battery retainer and bolts. **Torque** bolts to 13 ft. lbs.



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Fig. 1 Battery ground cable

3. Install positive battery terminal to battery. **Torque** nut to 11 ft. lbs.
4. Position positive battery cable terminal cover.
5. Connect wiring harness connectors to junction block.
6. Tighten engine, IP and forward lamp wiring harness connector bolts to junction block. **Torque** bolts to 89 inch lbs.
7. Position junction block to housing. Align tabs and press junction block into place to secure junction block, **Fig. 4**.
8. Install positive battery cable lead to stud on junction block. **Torque** nut to 12 ft. lbs.
9. Close cover on junction block.
10. Install front fender upper diagonal brace.
11. Install bolts to front fender upper diagonal brace at radiator support. **Torque** bolts to 35 ft. lbs.
12. Install front fender diagonal brace to inner fender bolt. **Torque** bolt to 35 ft. lbs.
13. Install battery ground cable terminal to battery. **Torque** nut to 11 ft. lbs.
14. Set clock and program radio stations back into radio as recorded at beginning of procedure.

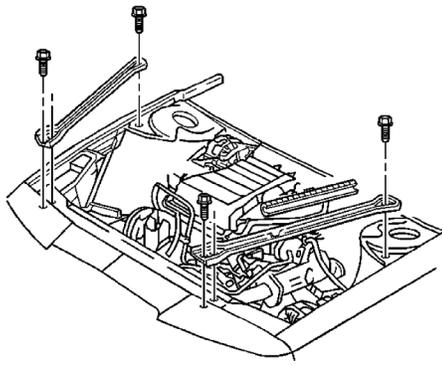


Fig. 2 Front fender upper diagonal brace & bolt

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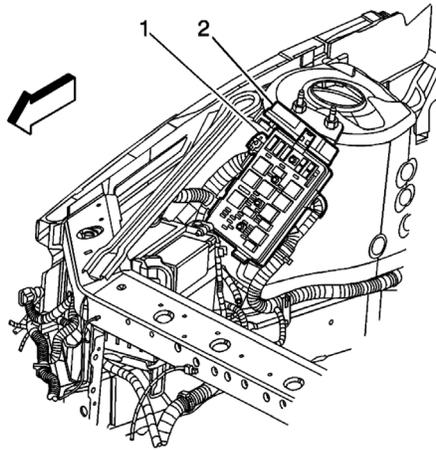


Fig. 3 Underhood junction block cover

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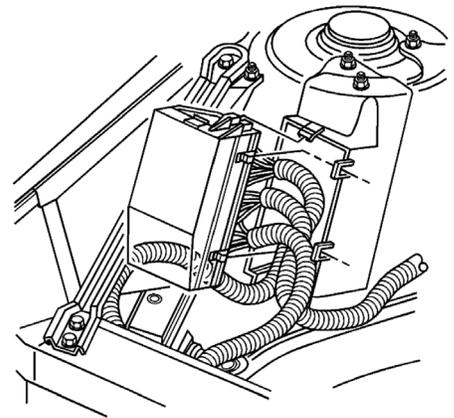


Fig. 4 Underhood junction block

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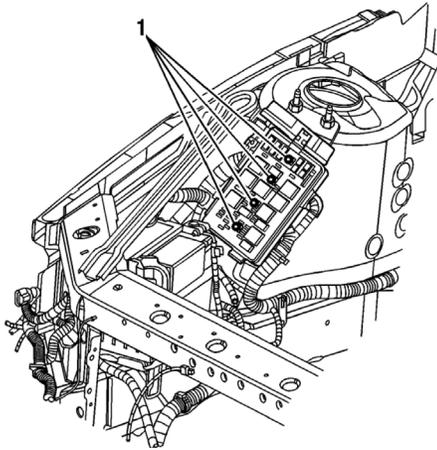


Fig. 5 Underhood junction block bolts

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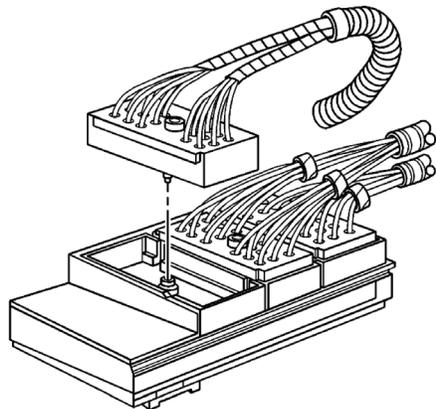


Fig. 6 Underhood junction block wiring harness connectors

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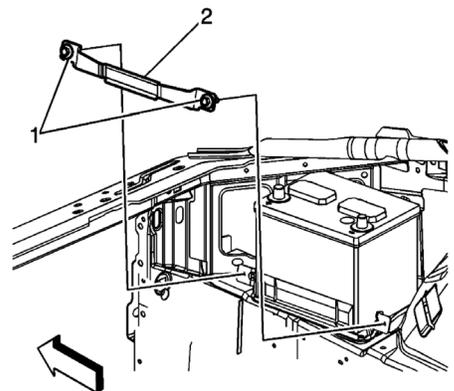


Fig. 7 Battery retainer & bolts

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