

BUICK 2004-07 Rainier

PRECAUTIONS

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 preset and theft codes from radio.
2. Turn ignition switch to LOCK position.
3. Verify that all electrical components are off such as interior lights, all doors are closed, underhood lamp, etc.
4. Loosen battery ground cable bolt, **Fig. 1**.
5. Remove battery ground cable (2) from battery, **Fig. 1**.

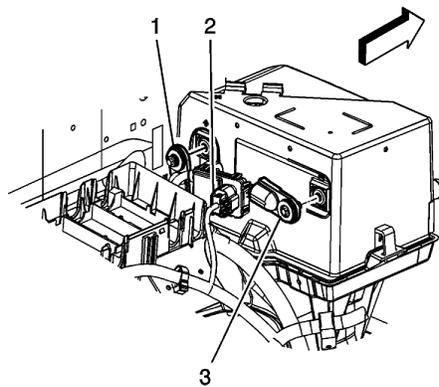


Fig. 1 Battery ground cable

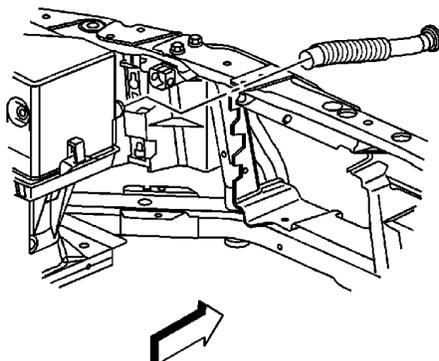


Fig. 3 Battery air duct

6. Position battery ground cable away from any body ground.
7. Loosen battery positive cable bolt.
8. Remove battery positive cable (1) from battery, **Fig. 1**.
9. Remove coolant heater cord retainers (1) from battery cover, if equipped, **Fig. 2**.
10. Remove battery air duct from battery cover, **Fig. 3**.
11. Remove battery tray brace bolts and nut, **Fig. 4**.
12. Remove battery cover, **Fig. 5**.

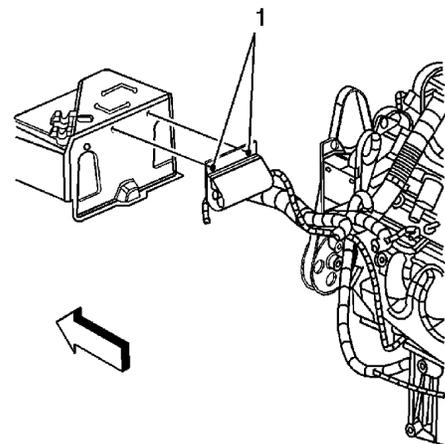


Fig. 2 Coolant heater cord & retainer

13. Remove battery hold down nut (3), retainer (1), and washer, **Fig. 6**.
14. Remove battery.

Installation

1. Install battery.
2. Install battery hold down retainer (1), nut (3), and washer, **Fig. 6**. **Torque** nut to 11 ft. lbs.
3. Install battery cover, **Fig. 5**.
4. Install battery tray brace bolts and nut, **Fig. 4**. **Torque** bolts and nut to 89 inch lbs.
5. Install battery air duct to battery cover.
6. Install battery air duct from battery cover, **Fig. 3**.
7. Remove coolant heater cord retainers (1) from battery cover, if equipped, **Fig. 2**.
8. Position battery positive cable to battery. **Torque** bolt to 11 ft. lbs.
9. Position battery ground cable to battery. **Torque** bolt to 11 ft. lbs.
10. Reset all preset and theft codes for radio.

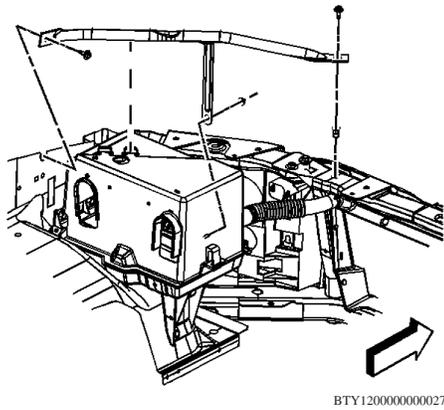


Fig. 4 Battery tray brace

BTY120000000027

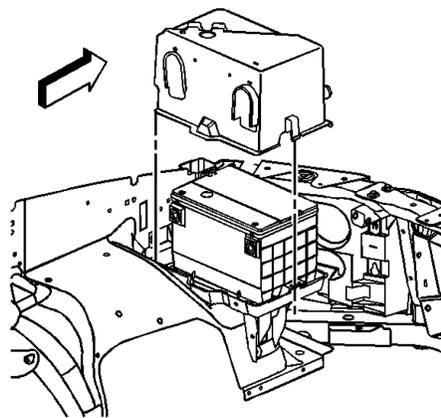


Fig. 5 Battery cover

BTY120000000028

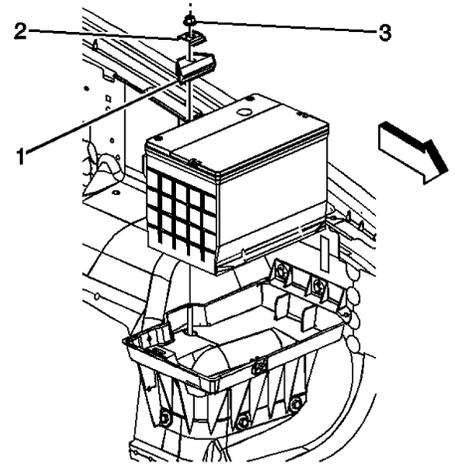


Fig. 6 Battery hold down

BTY120000000029

The material herein may not be used without the prior express written permission of the copyright holder, including, but not limited to reproduction or transmission in any form by any means such as electronic, mechanical, photocopying, recording or otherwise; nor may it be stored on any retrieval system of any nature.

"The data reported herein has been compiled from authoritative sources. While every effort is made by the analysts to attain accuracy, manufacturing changes as well as typographical errors and omissions may occur on occasion. The publisher cannot be responsible nor does it assume any responsibility whatsoever for such omissions, errors or changes."

"Portions of materials herein have been reprinted with permission of General Motors Company, Service Technology Group"

MOTOR INFORMATION SYSTEMS
MOTOR is a trademark of Hearst Business Media
A Unit of Hearst Corporation
1301 W. Long Lake, Suite 300
Troy, MI 48098

Copyright © 2012 Hearst Business Media. All rights reserved.