Theft Deterrent Vehicle Inclination Sensor Package Installation

Installation Instructions Part Number

22962507

The vehicle must have the keyless entry option (&AP3/AP8/AU0) and DIC (&UK3) or the GM accessory DIC switch package for this security system. Otherwise, it doesn't have the content theft deterrent alarm system needed. Installing this security system requires programming of he vehicle. This is done with a Service Programming System. The installer needs to call the Techline Customer Support Center (TCSC). The TCSC will provide a Vehicle Configuration Index (VCI). The VCI is good for only one specific Vehicle Identification Number (VIN).

Note: If Shock Sensor is being installed into vehicle also, use the Shock Sensor Harness for both the Inclination and Shock Sensor.

Kit Contents

Qty.	Description
1	Inclination Sensor
1	Security System Wiring Harness
1	Owners Manual Insert
1	Adhesion Promoter Towellette
2	Tie straps
1	Installation Instructions

Tools Required

- Scan Tool
- Service Programming System (SPS - TIS 2000 or equivalent system)
- Push-in retainer puller
- Small screwdriver
- Terminal Removal Tool part number 12094429

Also Required

Surface Cleaner (50% isopropyl alcohol, FS-1082 hi-flash naphtha or equivalent)

Installation Sequence

Note: Please review the entire procedure before trying to perform it.

Verify the vehicle has the AP3, AP8 or AU0 and UK3 options. This can be done using the GM Investigate Vehicle History (IVH) or the vehicle's Service Parts ID Label. If the GM accessory DIC
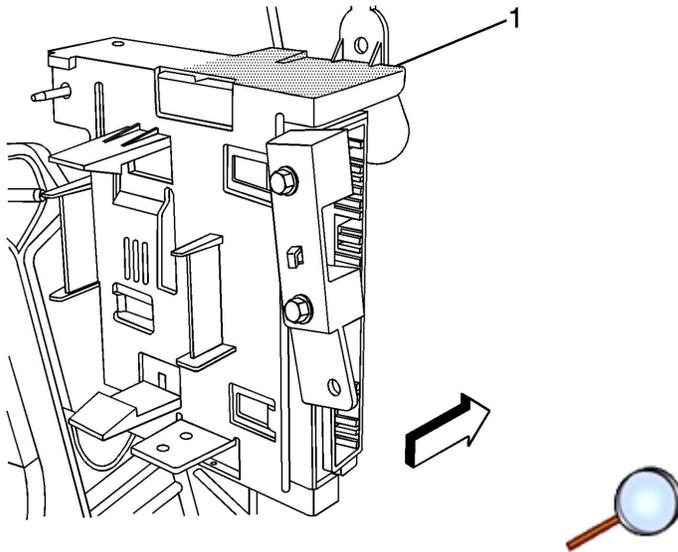
switch package is installed, the UK3 option will not appear on the Service Parts ID Label. In that case, simply check for presence of the DIC switch. Call TCSC (1-800-828-6860) to obtain programming instructions. The authorization number is for the BCM (Body Control Module) and the IPC (Instrument Panel Cluster).

Note: You must have the vehicle's VIN that will be upgraded and the authorization code attached to the instruction sheet included with this kit.
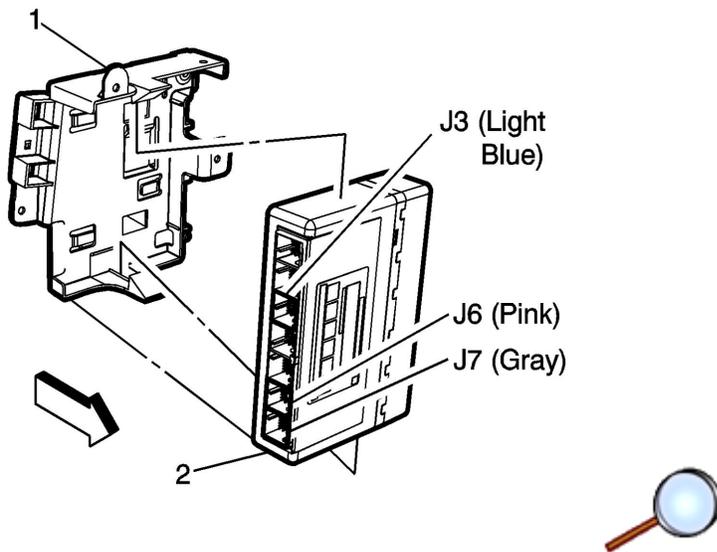
This authorization code is for the BCM and IPC.

Note: Before programming, the following conditions must be met, or control module damage may occur

- The Tech 2 and the SPS terminal must have the latest software.
- Vehicle system voltage:
  - There is not a charging system concern. All charging system concerns must be repaired before programming a control module.
  - Vehicle system voltage is greater than 12 volts but less than 16 volts. The battery must be charged before programming if the vehicle system voltage is low.
  - A battery charger is NOT connected to the vehicle's battery. Voltage fluctuations from a battery charger may cause programming failure.
  - Turn OFF or disable any system that may put a load on the vehicle's battery, such as the following comments:
    – Twilight sentinel
    – Interior lights
    – Heating, ventilation, and air conditioning (HVAC) Systems
    – Engine cooling fans, radio, etc.
- The ignition switch must be in the proper position. The Tech 2 prompts you to turn ON the ignition, with the engine OFF. DO NOT change the position of the ignition switch during the programming procedure, unless instructed to do so.
- Make certain all tool connections are secure.
- DO NOT disturb the tool harnesses while programming. If an interruption occurs, programming failure or control module damage may occur.
- DO NOT turn OFF the ignition if the programming procedure is interrupted or unsuccessful. Ensure that all connections are secure and the SPS software is up to date. Attempt to reprogram the control module. If the control module cannot be programmed, replace the control module.

1. Reprogram the IPC (Instrument Panel Cluster) using the VCI number for this VIN.
2. Reprogram the BCM (Body Control Module) using the VCI number for this VIN.
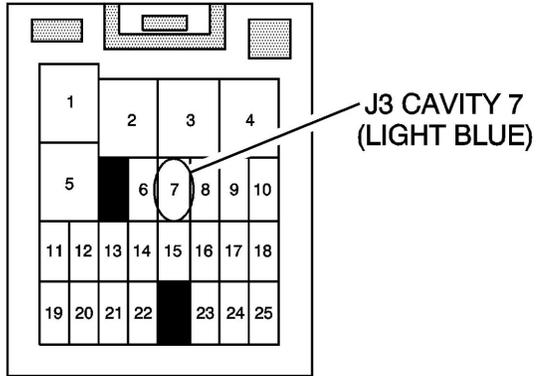3. Turn the ignition OFF.

4. Clean the right-hand corner surface at the top of the Body Control Module (1) with a suitable solvent (50% isopropyl alcohol, FS-1062 hi-flash naphtha or equivalent). Dry the surface with a clean cloth.

5. Apply adhesion promoter to the cleaned bracket surface with the provided towellette.

   ◦ The surface temperature should not be less than 65°F (21°C).

   ◦ The promoter needs to dry for at least 3 minutes before applying the inclination sensor.
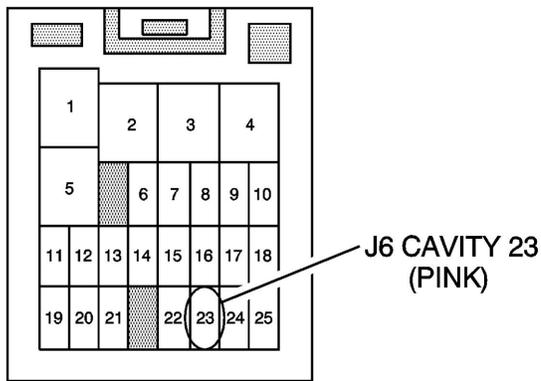

6. Remove the BCM (2) from bracket (1) by gently opening the top and bottom snap fingers.

7. Disconnect the 3 BCM connectors: J3 (LIGHT BLUE), J6 (PINK) and J7 (GRAY).

8. Using a small screwdriver and the terminal removal tool, gently pry up on the Terminal Position Assurance (TPA) on each of the 3 connectors removed from the BCM.
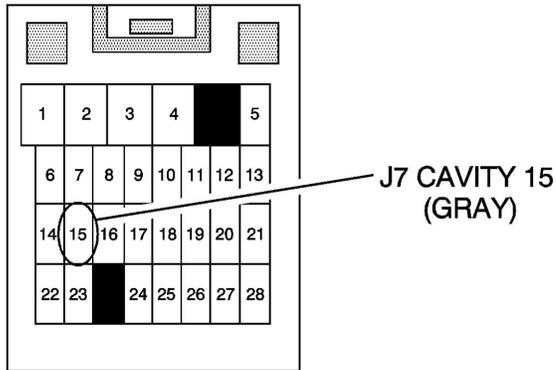
   Note: TPA will not fully come off of connector.

9. Gently remove bubble wrap protection from the security system wiring harness BCM terminals.

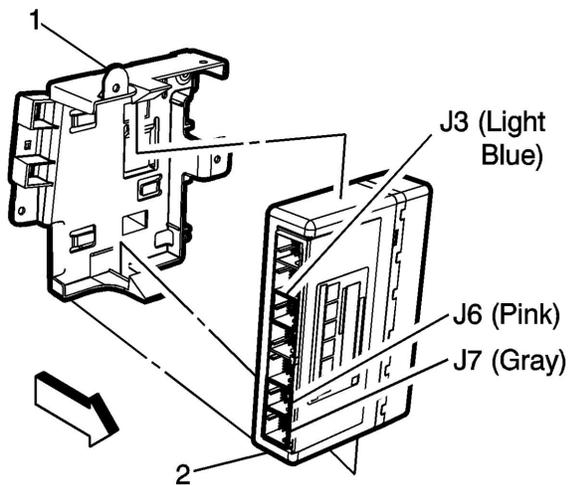10. Plug the terminals into the following locations:

**J3 CAVITY 7
(LIGHT BLUE)**

◦ The GRAY wire on the security system harness should be plugged into cavity 7 on the J3 BCM connector (LIGHT BLUE).

**J6 CAVITY 23
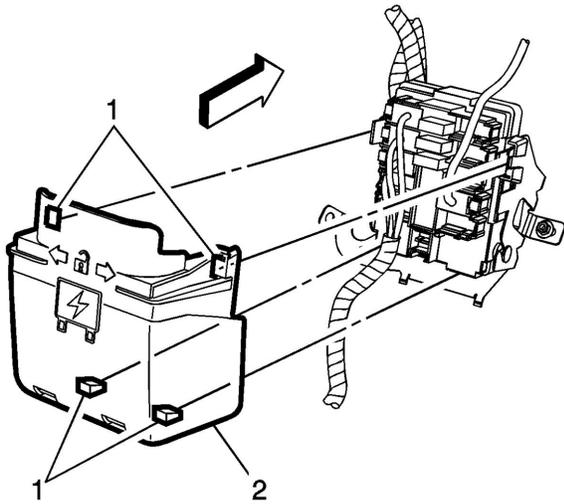(PINK)**

◦ The YELLOW wire on the security system harness should be plugged into cavity 23 of the J6 BCM connector (PINK).
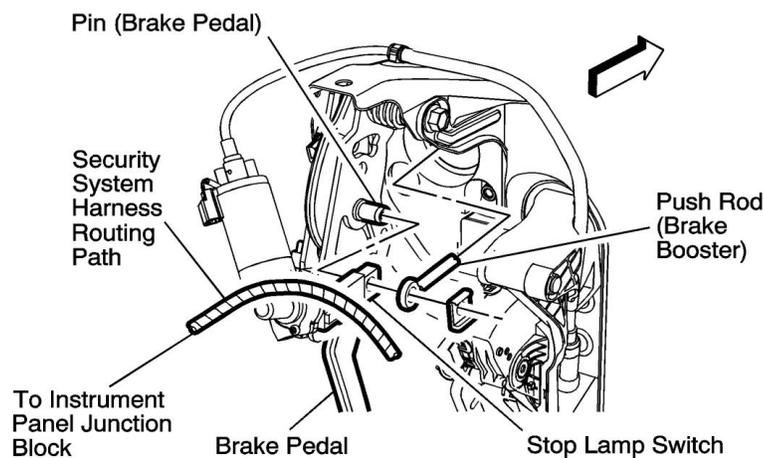
J7 CAVITY 15
(GRAY)

- The PURPLE wire on the security system harness should be plugged into cavity 15 of the J7 BCM connector (GRAY).
- Push, click, and tug the wires to make sure the terminals are seated.
- Reseat TPA by pressing in place.

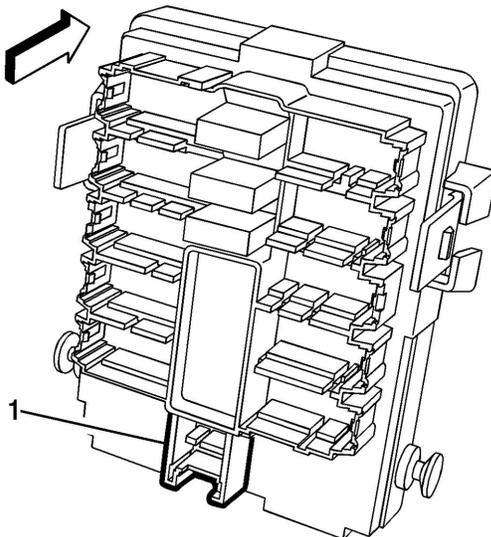J3 (Light Blue)

J6 (Pink)

J7 (Gray)

11. Reconnect all three connectors (J3, J6, and J7) to BCM (2).
12. Reinstall BCM to the bracket (1) by positioning the top side behind the top retainer to secure the bottom side.

13. Remove the I/P body relay block cover (2), by depressing the 2 locking tabs on each side (1) and pulling down gently to release the 2 lower clips.

Pin (Brake Pedal)

Security System Harness Routing Path

Push Rod (Brake Booster)

To Instrument Panel Junction Block
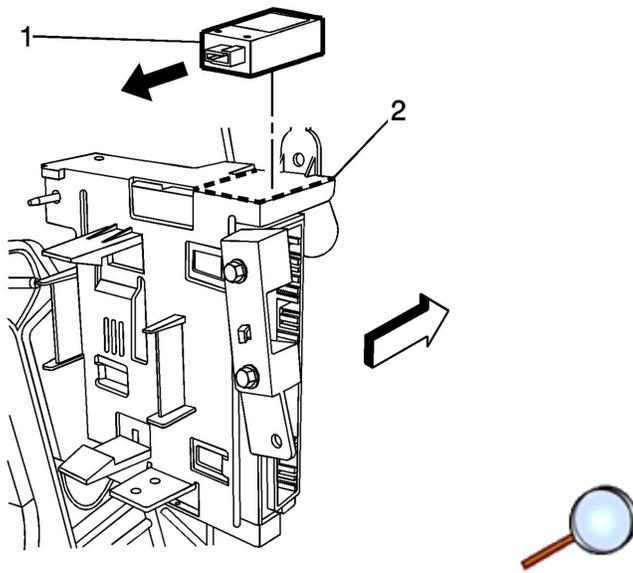
Brake Pedal

Stop Lamp Switch

14. Route the natural colored connector of the security system harness over the top of the brake pedal linkage and down to the relay block.

15. Connect the natural colored connector from the security wiring harness to the I/P body block at the bottom center (1).

16. Reinstall the I/P body relay block cover by aligning the locking tabs and pressing in place.
17. Secure the security system wiring harness to the body harness bundle just in front of the BCM using one tie strap.
18. Connect the security system wiring harness to the Inclination Sensor.
19. Reset the BCM and function-check the security system.
    ◦ Turn the ignition ON and back OFF.
    ◦ Turn the ignition ON with the engine OFF.
    ◦ Using a scan tool, retrieve any history Diagnostic Trouble Codes (DTCs) from all of the modules.
    ◦ Clear all DTCs.
    ◦ Turn ignition OFF.
    ◦ Open the driver's door to turn off retained accessory power.
    ◦ Place the sensor on the floor.
    ◦ Arm the vehicle's content theft deterrent system while in the driver's seat by using the remote keyless entry fob to lock the doors. Do not disturb the sensor until the security telltale goes off.
    ◦ Tilt the sensor and hold for 7 seconds. The alarm should activate. if the alarm does not activate, check the fuses horns and lights.

20. Apply the inclination sensor to the BCM bracket.
    ◦ Peel the liner from the underside of the inclination sensor, being careful not to touch the adhesive or allow dirt or any foreign material to come in contact with it.
    ◦ Carefully align the sensor (1) to the surface (2) and press firmly.
21. Secure the security system wiring harness to the right hand lower I/P support bracket using one tie strap.
22. Insert sheet into owner's manual.