

# Remote Control Door Lock, Theft Deterrent, and Remote Start Transmitter Package Installation

## [Installation Instructions Part Number](#)

22778329

## [Kit Usage](#)

This kit adds remote start to vehicles without option BTV. The vehicle must also have and automatic transmission. Adding remote vehicle start requires programming of the 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).

### Kit Contents

| Qty | Description                       |
|-----|-----------------------------------|
| 2   | Transmitters                      |
| 1   | Hood Primary and Secondary Latch  |
| 1   | Vehicle Label                     |
| 1   | Hood Switch Harness               |
| 1   | Remote Control Door Lock Receiver |
| 1   | Authorization Code                |

## Tools Required

- Scan Tool (with Pass Thru programming capability)
- Service Programming System (SPS – TIS 2000 or equivalent system with Pass Thru programming capability)
- Surface Cleaner 50 percent isopropyl alcohol, FS-1082 hi-flash naphtha or equivalent)

## [Procedure](#)

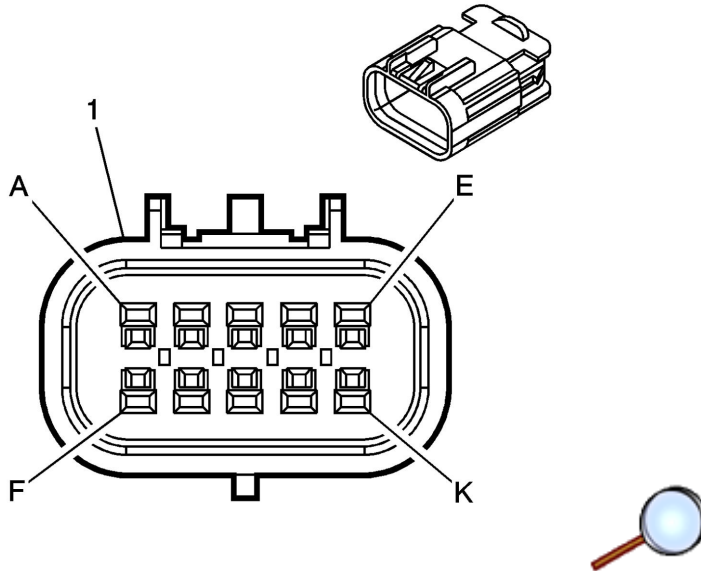
**Note:** Please review this entire procedure before trying to perform it.

**Note:** When calling the TCSC, you must use the Authorization Code from the kit.

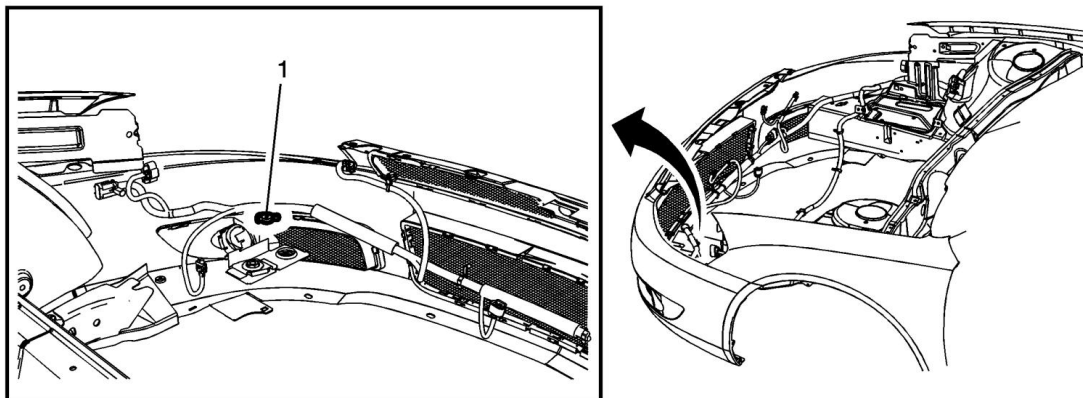
1. Verify the vehicle does not have the option BTV. This can be done by using the GM Vehicle Inquiry System (GMVIS) or the vehicle's Service Parts ID Label. Call TCSC (1-888-337-1010) to obtain a VCI number. You must have the vehicle's VIN that will be upgraded and the following Authorization Code from label: This will allow you to access the software to enable the remote vehicle start option.
2. Remove hood latch and install new latch. Refer to [Hood Primary and Secondary Latch Replacement](#).
3. Remove remote control door lock receiver and install new remote control door lock receiver. Refer to [Remote Control Door Lock Receiver Replacement](#).

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4. Install remote control door lock receiver antenna. Refer to [Remote Control Door Lock Receiver Antenna Replacement](#).
5. Connect the hood switch wiring harness to the hood switch.
6. Remove the driver side headlamp assembly. Refer to [Headlamp Replacement](#).
7. Route the hood switch wiring harness into the engine compartment along the forward lamp harness toward the forward lamp harness to body harness connector X120 behind the left headlamp assembly. Secure the hood switch wiring harness to the forward lamp harness with three integral tie wraps.
8. Disconnect the forward lamp harness to body harness connector X120.



9. Insert terminals from the hood switch wiring harness into connector X120 (1). Ensure that the PINK/BLACK wire labeled "Cavity K" is connected in cavity (K) of the inline connector X120 (1) using terminal P/N 15326268. Ensure that the PURPLE wire labeled "Cavity G" is connected in cavity (G) of the inline connector X120 (1) using terminal P/N 15326268.
10. Snap forward lamp harness to body harness connector X120 together.



11. Route the hood switch wiring harness ground ring terminal to G101 ground location (1).  
**Caution:** Refer to [Fastener Caution](#).
12. Remove the G101 ground bolt, add the hood switch wiring harness ground ring terminal under the existing ring terminal, and secure with original bolt and tighten to 9 Y (80 lb in).
13. Reinstall the driver side headlamp assembly. Refer to [Headlamp Replacement](#).

14. Adjust the hood latch placement as needed for proper hood alignment.
15. Reinstall removed components.
16. Using the Scan Tool and SPS terminal, reprogram the theft deterrent module (TDM, not VTD). Use "Normal" mode, and select the calibration with remote start. Refer to the TDM portion of [Theft Deterrent Module Programming and Setup](#).
17. Reprogram the body control module (BCM) using the method called out by the TCSC. Refer to [Body Control Module Programming and Setup](#).
18. The RCDLR needs to be calibrated using SPS through TIS2WEB with the calibration for "with remote vehicle start".
19. Turn the ignition off for 1 minute.
20. Turn the ignition on.
21. Using the scan tool, retrieve any diagnostic trouble codes (DTCs) from all of the modules.
22. Clear all DTCs.
23. Remove the scan tool.
24. Program the new transmitters to the remote control door lock receiver using the scan tool.

**Note:** All transmitters that are to be recognized must be programmed in a single programming sequence. If the system is placed in program module it will erase all previously programmed transmitters upon the receipt of the programming signal from the first transmitter. Up to 4 transmitters can be programmed. Do not operate or program the transmitters in the vicinity of other vehicles that are in the keyless entry program mode. This prevents the programming of the transmitters to the incorrect vehicle.

- Using a scan tool, access the Body Control Module (BCM) Special Function: Program Key Fobs.
- Press the START soft key on the scan tool.

**Note:** The scan tool must stay connected until all of the transmitters are programmed.

- Press and hold the LOCK button and the UNLOCK button simultaneously on one transmitter. After a delay of 5 - 10 seconds, the scan tool will indicate that the transmitter is programmed.
  - Repeat the previous step in order to program up to 4 transmitters.
  - Remove the scan tool.
  - Operate the transmitter functions in order to verify correct system operation.
  - Relearn the SDM Primary Key to BCM. Refer to [Body Control Module Programming and Setup](#).
  - Relearn the Tire Pressure Sensors. Refer to [Tire Pressure Indicator Sensor Learn](#).
25. Apply label to a smooth surface of the vehicle near the existing Service parts ID Label. This label is for future service parts identification.

**Note:** Do not place label over top of any existing labels

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

    - Clean the vehicle surface with a suitable solvent (50% isopropyl alcohol, FS-1062 hi-flash naphtha or equivalent).
    - Dry the surface with a clean cloth.
    - Peel the liner from the backside of the label, being careful not to touch the adhesive or allow dirt or any foreign material to come in contact with it.
    - Carefully align the label to the surface, press firmly, and smooth out.
  26. Add the transmitters to the customer key rings.