

Remote Control Door Lock, Theft Deterrent, and Remote Start Transmitter Package Installation (InstructionID:23257090)

Installation Instructions Part Number

23257090

Kit Contents

Qty	Description
2	Key Fobs
1	One Page Installation Instructions with Authorization Code Label

Tools Required

- Scan Tool (with Pass Thru programming capability)
- Service Programming System

Procedure

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

If the vehicle was ordered with the Accessory Remote Start kit, there is no programming required. This can be verified by checking the VIN in the Investigate Vehicle History system, IVH. If the vehicle was built with RPO code S6P, the vehicle was produced with the correct system software and **no call to TCSC is required**. Once the new fobs are learned to the vehicle the install is complete.

If the Accessory Remote Start kit is being added to a vehicle and S6P is not listed in the RPO build of the vehicle. Call TCSC to obtain a VCI number. United States 1-888-337-1010 Canada (English) 1-800-828-6860 Canada (French) 1-800-503-3222. You must have the vehicle's VIN that will be upgraded and the Authorization Code from kit. This will allow you to access the software to enable the remote vehicle start option.

Programming Section

Programming Vehicle

Body Control Module Programming and Setup (Calibrate the BCM for BTV)

Note:

- **DO NOT** program a control module unless directed to by a service procedure or a service bulletin. If the **ECU** is not properly configured with the correct calibration software, the **ECU** will not control all of the vehicle features properly.
- Ensure the programming tool is equipped with the latest software and is securely connected to the data link connector. If there is an interruption during programming, programming failure or **ECU** damage may occur.
- Stable battery voltage is critical during programming. Any fluctuation, spiking, over voltage or loss of voltage will interrupt programming. Install the **EL - 49642 SPS Programming Support Tool** to maintain system voltage. If not available, connect a fully charged **12V** jumper or booster pack disconnect from the AC voltage supply. **DO NOT** connect a battery charger.
- Turn **OFF** or disable systems that may put a load on the vehicles battery such as; interior lights, exterior lights (including daytime running lights), HVAC, radio, etc.
- During the programming procedure, follow the **SPS** prompts for the correct ignition switch position.
- Clear **DTCs** after programming is complete. Clearing powertrain **DTCs** will set the Inspection/Maintenance (I/M) system status indicators to **NO**.

Reprogramming ECU

To program an existing **BCM**, perform the following procedure:

1. Install EL - 49642 **SPS** programming support tool.
2. Access the Service Programming System (**SPS**) and follow the on-screen instructions.
3. On the **SPS** Supported Controllers screen, select **BCM Body Control Module** – programming and follow the on-screen instructions.
4. Perform the following for the appropriate ignition type prior to proceeding with the next step:
 - **Key Ignition System:** key in the ignition and any additional keys must be away from the vehicle at least 3 meters.
 - **Push Button Start System:** Keyless entry transmitter must be in the console programming pocket. Refer to the Help section button on the **SPS Immobilizer Setup screen** for the exact pocket location. All additional transmitters must be away from the vehicle at least 3 meters.

Note: The following programming step may take between 10 - 12 min. and progress will appear to have stopped during this process. This is a normal security timer response and a restart should not be performed. If the **DTC B389A** set immediately after programming a replacement **BCM**, the Immobilizer Learn procedure was not properly completed. The Immobilizer Learn procedure needs to be performed again.

Note: Deleting existing Keys or Transponders without remote start button – this will render the subject key(s) inoperable. This step will however, allow the new transponders to correspond with the memory seat locations. – Skip Step 5 if the vehicle is NOT equipped with Memory Seats.

5. On the **SPS Supported Controllers screen**, select **IMMO Immobilizer Learn - Setup**. On the next screen, select **(Program Transponder or Remote Key (Delete))**. To Delete existing keys and remotes, follow the on-screen instructions. When Delete existing keys and remote is complete, follow on–screen instructions and exit the **Immobilizer learn mode**. repeat this step to delete any remaining remotes.

Note: Adding new Keys or Transponders with remote start button.

6. On the **SPS Supported Controllers screen**, select **IMMO Immobilizer Learn - Setup**. on the next screen, select **(Program Transponder or Remote Key (Add))**. To add existing Transponder or Remote Keys, follow the on-screen instructions. When Immobilizer Learn is complete, press the **Unlock button** on the keyless entry transmitter to allow the keyless entry transmitter to exit the **Immobilizer Learn mode**. Repeat this step to add any additional remotes.

Note: When performing the **Tire Pressure Monitor Sensor Learn** during **BCM** setup, the EL-46079 tire pressure monitor diagnostic tool must be used to activate each tire pressure sensor for vehicles with **UJM**.

7. On the **SPS Supported Controllers screen**, select **BCM Body Control Module - Setup** and follow the on-screen instructions.
8. Check the driver information center display for additional messages regarding further calibration instructions. If there are no additional driver information center instructions present, programming is complete.
9. At the end of programming, choose the “**Clear All DTCs**” function on the **SPS** screen.
10. If **ABS**, Traction Control and/or Stabilitrak indicators are **ON** and **DTC C0161** is set in the electronic brake control module after performing **BCM** programming and setup, do the following;
 - 10.1. Disconnect the scan tool from the data link connector.
 - 10.2. Ignition **OFF**, all access doors closed, all vehicle systems **OFF**, and all keys at least 3 meters away from the vehicle. it may take up to 2 minutes to power down.
 - 10.3. Ignition **ON**, verify **DTC C0161** is in history. If not, repeat the above step to make sure the vehicle is in sleep mode.
 - 10.4. Use the scan tool to clear the **DTCs**.

Unsuccessful Programming Recovery

In the event of an interrupted or unsuccessful programming event, perform the following steps:

1. **DO NOT** turn the ignition **OFF**. Ensure that all **ECU**, **DLC** and programming tool connections are secure and the **TIS** terminal operating software is up to date.
2. Attempt to reprogram the **ECU**.
3. If the **ECU** can still not be programmed, turn the ignition **OFF** for at least one minute.
4. Turn the ignition **ON** and attempt to reprogram the **ECU**. The **ECU** should program.

If the **ECU** still cannot be programmed, replace the **ECU**.

- Add the transmitters to the customer key rings and return to customer.
- Return the old transmitters to customer.

Note: The first two transmitters programmed will serve as the master keys, identifying seat positions with each of the two transmitters.

To Erase all Fobs and Relearn

Note:

- All transmitters must be programmed in a single programming sequence. Once the Erase/Program All Key Fobs selection is made, all learned transmitters will be erased. If all the existing transmitters associated with the vehicle are not learned at this time, they will become inoperative and require additional programming.
 - Do not operate or program the transmitters in the vicinity of other vehicles that are in the transmitter program mode. This will prevent the programming of the transmitters to the incorrect vehicle.
1. This procedure will first erase all known keyless entry transmitters. After all transmitters are erased, the procedure will begin to program keyless entry transmitters in sequential order, beginning with transmitter 1.
 - 1.1. With a scan tool, access the Body Control Module Configuration/Reset Functions menu. Select Add/Replace Key Fobs.
 - 1.2. Select Erase/Program Fobs. This will erase all learned transmitters and prepare the BCM to learn new transmitters. Follow the on-screen instructions.
 - 1.3. When all the desired transmitters have been programmed, cycle the ignition from ON to OFF, exit the vehicle, and operate the transmitter functions in order to verify correct system operation.
 2. To keep existing fobs as 1 & 2 and learn the RVS fobs as 3 & 4:

Note: 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.

This procedure will program keyless entry transmitters in sequential order. If two transmitters are currently learned to the vehicle as transmitters 1 and 2, using this procedure will learn the next transmitter are transmitter 3, and so on.

- 2.1. With a scan tool, access the Body Control Module Configuration/Reset Functions menu. Select Add/Replace Key Fobs.
- 2.2. Select Next Available Slot. Follow the on-screen instructions.
- 2.3. When all the desired transmitters have been programmed, cycle the ignition from ON to OFF, exit the vehicle, and operate the transmitter functions in order to verify correct system operation.