2007 GMC Truck Acadia - 2WD | Acadia VIN R/V Accessory Installation Manual | Accessories | Electrical Accessories | Accessories | Document ID: 2038641

2-Way Remote Start and Door Lock Transmitter Package Installation (AP8)

Accessories Part Number

17802088 or 19171128

Kit Usage

This kit is designed to add 2-way remote start with extended range and enhanced functionality. It is for vehicles not equipped with but prepped for remote vehicle start from the factory, for vehicles with option code AP8. If the vehicle is equipped with remote vehicle start, use a kit for a vehicle equipped with option code AP3. To add remote vehicle start, the vehicle needs to be reconfigured. This is done with a service programming system (SPS). The installer needs to call the Techline Customer Support Center (TCSC). The TCSC will ask for the vehicle identification number (VIN) and the authorization code from the kit. The call and authorization code are good for only one specific VIN.

These instructions only apply to 2007 model year vehicles. There are separate instructions for 2008 model year.

The 2-Way RCDLR has been designed to operate with the antenna included in the kit. The antenna type, gain, cable loss, and impedance have been chosen to meet FCC and Industry Canada requirements for radio communication equipment. Do not substitute the antenna supplied with any other part. Any modifications to the antenna or use of an antenna not designed for this system could void authorization to use this equipment.

Qty	Description
1	Remote Control Door Lock, 2-Way Remote Start and Information Display Receiver (2-Way RCDLR)
1	2-Way Remote Start and Door Lock Transmitter (With Information Display)
1	2-Way Remote Start, Door Lock and Information Display Antenna
1	2-Way Advanced Remote Start Owner Manual
1	Installation Addendum with an Authorization Code Label

Kit Contents

Tools Required

- Scan Tool with capability of communicating on GMLAN
- Service Programming System (SPS TIS2WEB or equivalent)
- <u>EL-46079/J-46079</u> Tire Pressure Monitor Diagnostic Tool
- Surface Cleaner (50 percent isopropyl alcohol, FS-1082 hi-flash naphtha or equivalent)
- Adhesion Promoter GM P/N 12378462 (Canadian P/N 10953554)

Procedure

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

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

- Verify the vehicle has the AP8 option and an automatic transmission. Call TCSC 1-800-828-6860 (English), 800-503-3222 (French), or 248-265-0840 (Spanish) to obtain programming instructions to add the remote start feature. You must have the vehicle identification number (VIN) that will be upgraded and the authorization code from the kit.
- 2. Using the scan tool, perform the copy and paste TPM information procedure. This will extract the TPM tire type information as well as the sensor data from the existing RCDLR prior to its replacement and store this information in the scan tool. After RCDLR replacement, the tire type and sensor data stored in the scan tool is written to the new RCDLR, negating the need to perform the tire type setup and sensor learn procedure. This must be performed BEFORE removing the old RCDLR. Refer to <u>Remote Control Door Lock Receiver Programming and Setup</u>.
- 3. Physically replace the factory remote control door lock receiver (RCDLR) with the 2-way RCDLR included in the kit. Refer to <u>Remote Control Door Lock Receiver Replacement</u>. Do not program or reassemble yet.

Important:

- To remove the right rear quarter lower trim panel, the cargo screen retainer will need to be turned and twisted prior to pulling outward to release. There are two hidden bolts, one under the armrest and one behind the cargo screen retainer.
- On vehicles with UQA or UQS bose speaker systems, be sure to disconnect the speaker wire from the speaker in the right rear quarter trim panel before removing it. Failure to do so will result in a broken speaker.
- 4. The antenna will be mounted to the visible surface of the right body lock pillar upper trim panel. It will be visible to the customer when properly installed. Remove the right body lock pillar upper trim panel to access the antenna cable routing path. Refer to <u>Body Lock Pillar</u> <u>Upper Trim Panel Replacement</u>.





- 5. Start the routing of the antenna cable from the antenna end. Measure 85 mm (3 3/8 in) (a) length of antenna cable from the antenna and secure the cable to the right side quarter inner upper body structure at the window opening with one adhesive wire wrap (1). Align the adhesive wire-wrap with the existing hole in the quarter inner upper body structure (2). Do not mount the antenna yet.
- 6. Secure the antenna cable to the right side quarter inner lower body structure under the window opening with four adhesive wire-wraps (1).



- 7. Clean the top surface of the upper auxiliary air distributor duct (4) where the antenna cable will be secured with a surface cleaner (50 percent isopropyl alcohol, FS-1082 hi-flash naphtha or equivalent).
- 8. Apply adhesion promoter GMP/N 12378462 (Canadian P/N 10953554) to the surface of duct. Follow the instructions on the product label.
- 9. Secure the antenna cable to the top of the upper auxiliary air distributor duct (4) with one adhesive wire-wrap (2).



10. Secure the antenna cable to the main body harness and headliner harness with four tie wraps (1).



- 11. Connect the antenna cable to the 2-Way RCDLR (1).
- 12. Secure the factory antenna connector (2) to the vehicle body structure with duct tape.



I mportant: Excess antenna cable length must be looped in a "figure 8" no less than 100 mm (4 in) in length for the best performance of the system.

13. Loop any excess antenna cable length into a "figure 8" at least 100 mm (4 in) long and secure to the headliner wiring harness (1) (glued to the headliner (4)) with two tie wraps (2).





- 14. Clean the visible surface of the right body lock pillar upper trim panel (1) where the antenna (2) will be installed with a surface cleaner (50 percent isopropyl alcohol, FS-1082 hi-flash naphtha or equivalent).
- 15. Dry the trim panel thoroughly using a lint free cloth.

Important:

- The adhesion promoter must be used to assure adequate bonding of the antenna.
- Mask off or protect areas before applying the adhesion promoter.
- 16. Apply adhesion promoter GMP/N 12378462 (Canadian P/N 10953554) to the visible surface of the right body lock pillar upper trim panel (1) in the area where you will install the antenna (2). Follow the adhesion promoter instructions on the product label. Use a=28 mm (1 1/18 in) and b=180 mm (7 1/16 in) for the dimensions on the figure.

Important:

- Position the antenna where it is visible to the customer and according to the dimensions provided. A small change in placement will decrease the operating range of the system.
- Do not touch the adhesive pad on the antenna.
- 17. Remove the protective film from the adhesive pad on the antenna.
- 18. Align the antenna on the visible surface according to the figure, using a=28 mm (1 1/18 in)and b=180 mm (7 1/16 in).
- 19. Press firmly all along the antenna, including all four corners of the adhesive pad, in order to ensure proper adhesion to the trim panel.
- 20. Hold pressure on the antenna for 10–30 seconds.
- 21. Reassemble. Refer to <u>Body Lock Pillar Upper Trim Panel Replacement</u> and <u>Remote Control</u> <u>Door Lock Receiver Replacement</u>. Remember to reattach speaker wire for vehicles with UQA and UQS Bose speaker systems.
- 22. The 2-Way RCDLR will not work until it is programmed. Using the Scan Tool and SPS terminal, program the 2-Way RCDLR. Select the controller "RCDLR Remote Control Door Lock Receiver

2 Way - with Yellow Label". Select the options that the VIN is equipped with. After the 2-Way RCDLR is programmed, if the vehicle is equipped with TPMS, perform the Paste TPM Information procedure or perform the tire type and pressure setup and sensor learn procedure. Refer to <u>Remote Control Door Lock Receiver Programming and Setup</u>.

- 23. Check the 2-Way transmitter battery for full charge. Press the unlock button on the 2-Way transmitter eight times consecutively and then check the battery gauge in the upper right corner of the LCD display. If the battery icon is flashing, shows two bars or less, or the display flickers or fades out, replace the battery. Only if the gauge reads full (three bars), the transmitter can be released to the customer. To replace the battery:
 - 23.1. Use a lithium coin cell battery, type CR2450 (GM P/N 12493150).
 - 23.2. Gently pry the transmitter halves apart all the way around, using a nylon trim panel tool or similar object, starting at the notch at the bottom.
 - 23.3. Remove the battery and insert a new one, making sure the positive side is down (towards the back of the transmitter).
 - 23.4. Snap the transmitter halves together, making sure the gap is even all the way around.
 - 23.5. Check the new battery. Press the unlock button eight times consecutively and then check the battery gauge.
- 24. Program the 2-way transmitter and the vehicle factory transmitters to the 2-way RCDLR.
- 25. 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 <u>Theft Deterrent</u> <u>Module Programming and Setup</u>.
- 26. Use the scan tool and SPS terminal to reprogram the body control module (BCM) using the method called out by the TCSC. Refer to <u>Body Control Module Programming and Setup</u>.
- 27. Use the scan tool and SPS terminal to ensure the instrument panel cluster has the latest software. This corrects the condition where the low fuel warning would not reset on GMLAN.
- 28. Turn the ignition off for 1 minute.
- 29. Turn the ignition on.
- 30. Using the scan tool, retrieve any diagnostic trouble codes (DTCs) from all of the modules.
- 31. Clear all DTCs.
- 32. Remove the scan tool.
- 33. Operate the 2-way and factory transmitters in order to verify correct system operation. Refer to <u>Keyless Entry System Description and Operation</u>. Press a command button with the vehicle ignition ON in order to synchronize the 2-way transmitter clock to the vehicle clock.
- 34. Drive the vehicle at least 1 mile above 25 mph. This is to synchronize the 2-way transmitter odometer display to the vehicle odometer and update the tire pressure displays.
- 35. Add the transmitters to the customer key rings.
- 36. Place the 2-way advanced remote start owner manual in instrument panel compartment.
- 37. Keep the vehicle dry. Allow 6–8 hours, at 15°C (60°F), for the antenna adhesive to cure after installation.