

Vehicle Security/ Remote Start System Installation

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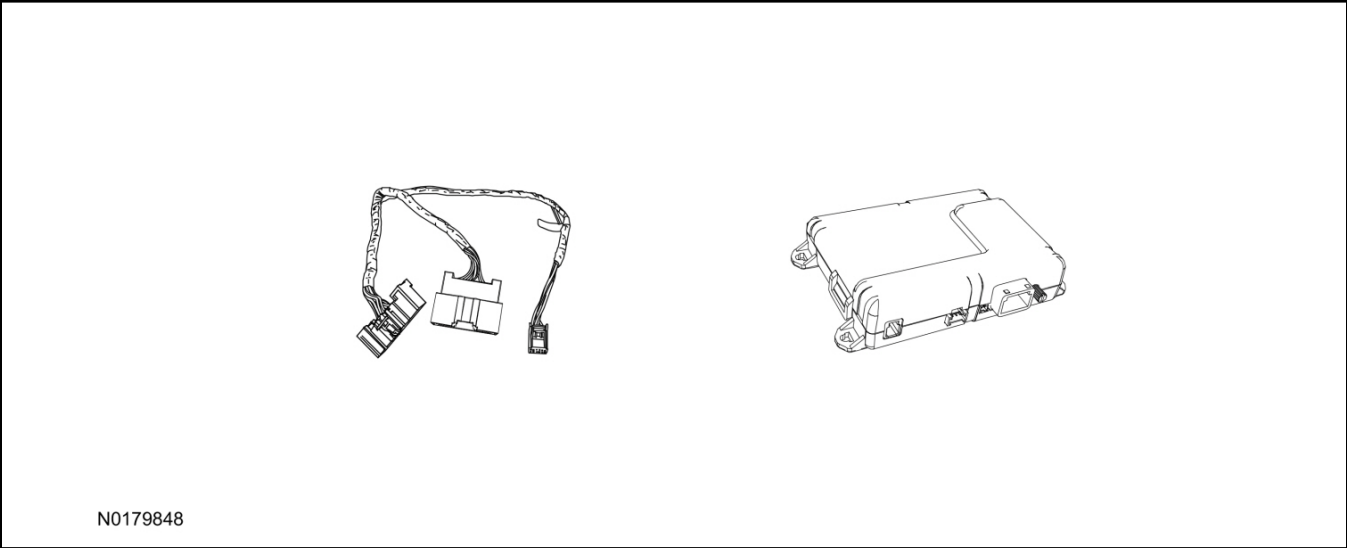
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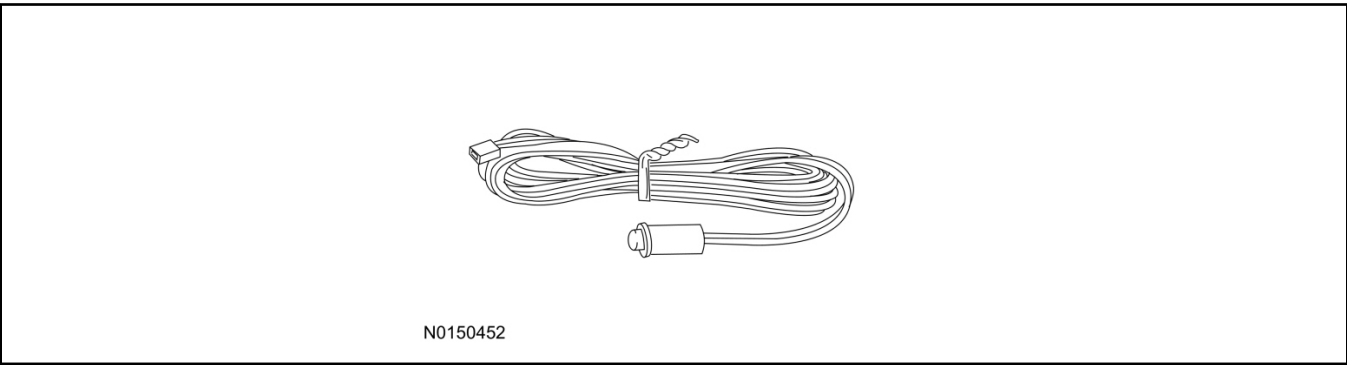
INSTALLATION

Vehicle Security / Remote Start

VSS System Components



Security Indicator LED (19D596) "Optional"



Review VSS Kit Contents

NOTE:

Kits are vehicle specific and are not interchangeable.

1. Verify correct kit part number.
2. Review the VSS kit contents.

Vehicle Security System (VSS) Kit

QUANTITY	DESCRIPTION
1	VSS Module
1	T-harness
6	Tie-straps

INSTALLATION (Continued)**Vehicle Security System (VSS) Kit(Continued)**

1	Owner's Manual
2	Key Tags (not shown)

Security Indicator LED Kit Contents "Optional"

3. Verify correct kit part number.
4. Review the Security Indicator LED kit contents.

Security Indicator LED Kit

QUANTITY	DESCRIPTION
1	Security Indicator LED

I. VSS System Installation - All Vehicles**⚠ CAUTION:**

Carefully route and secure module and harnesses so that they do not interfere with moving parts or linkages.

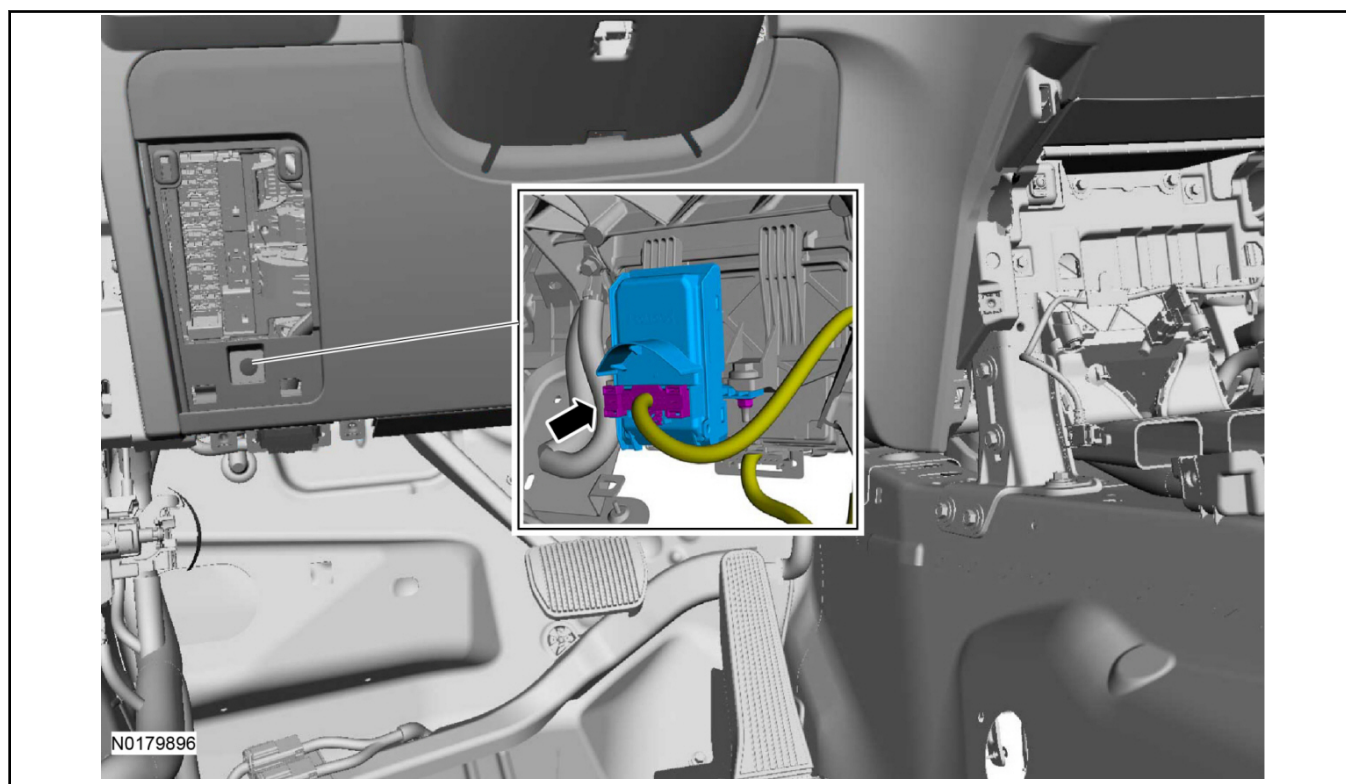
NOTE:

If the VSS kit was installed previously and the vehicle is being upgraded, proceed to the "RMST" upgrade section(s).

5. If the vehicle is equipped with factory remote start, test its operation by pressing the Lock button one time and the Remote Start button two times.
 - If the vehicle remote starts, stop the engine by pressing the Remote Start button one time.
 - If the vehicle does not remote start, diagnose the concern.
6. Disconnect the vehicle battery negative terminal. For additional information, refer to WSM Section 414-01.
7. Disconnect the Gateway Module electrical connector, plug the VSS T-harness into the back of the module and plug the other end of the VSS T-harness into the vehicle harness.

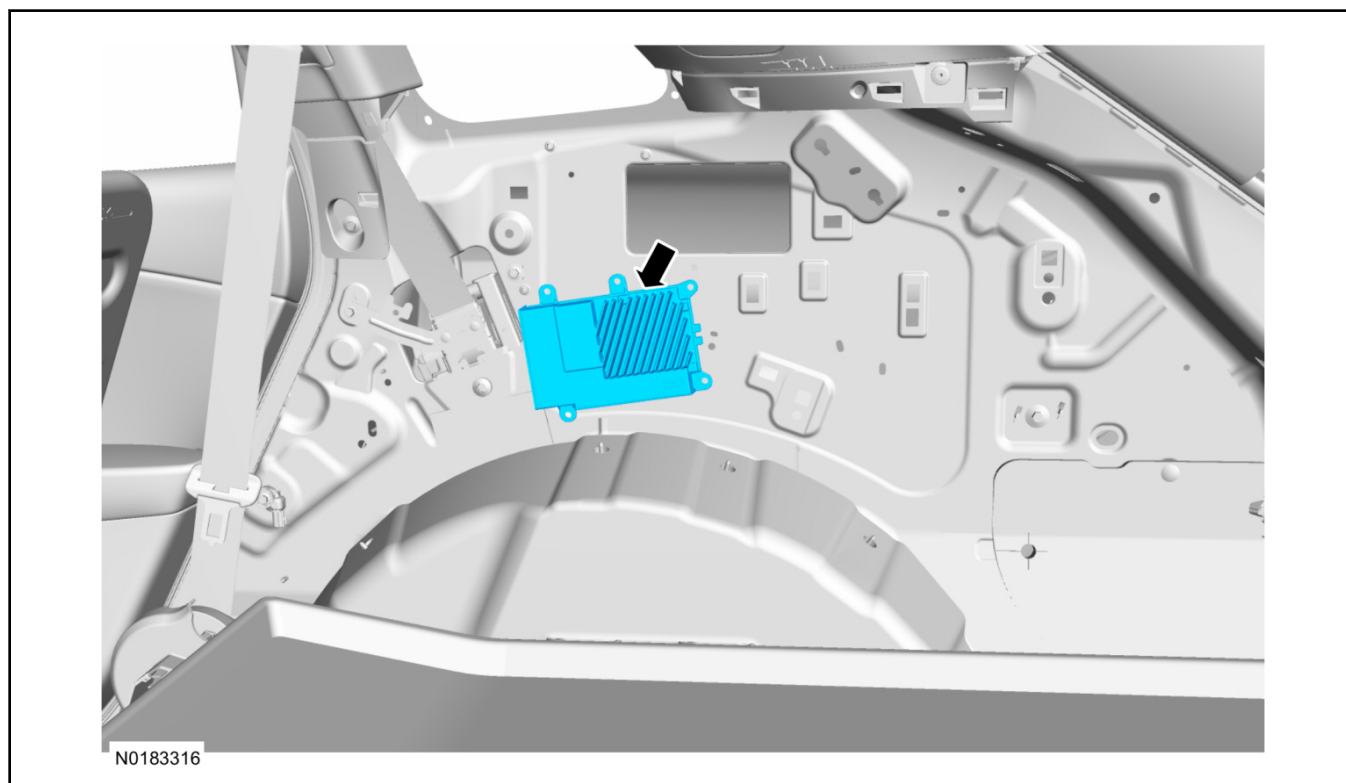
NOTE:

Explorer and Aviator, The gateway module (GWM) is located under driver side dash on the back side of the fuse box.



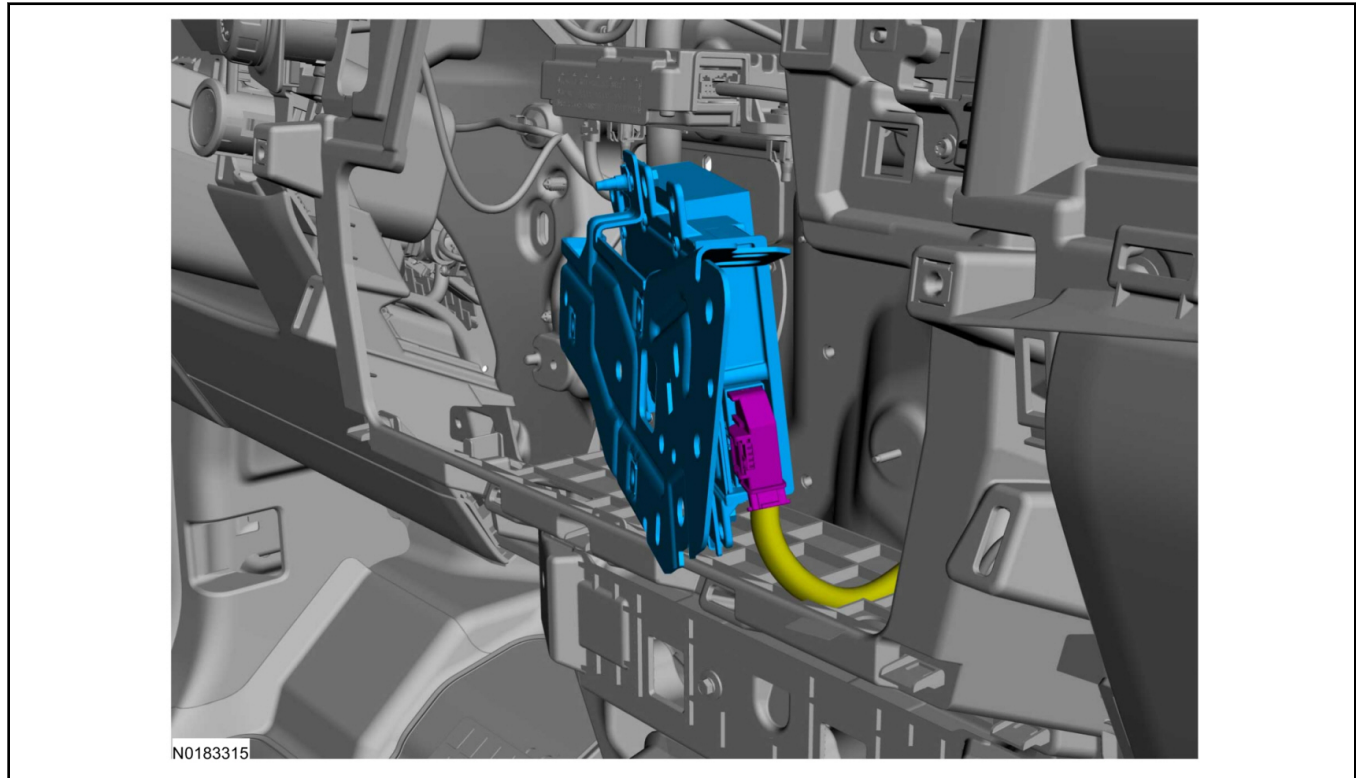
NOTE:

Edge and Nautilus, The enhanced central gateway (ECG) module is located behind the right rear quarter panel.

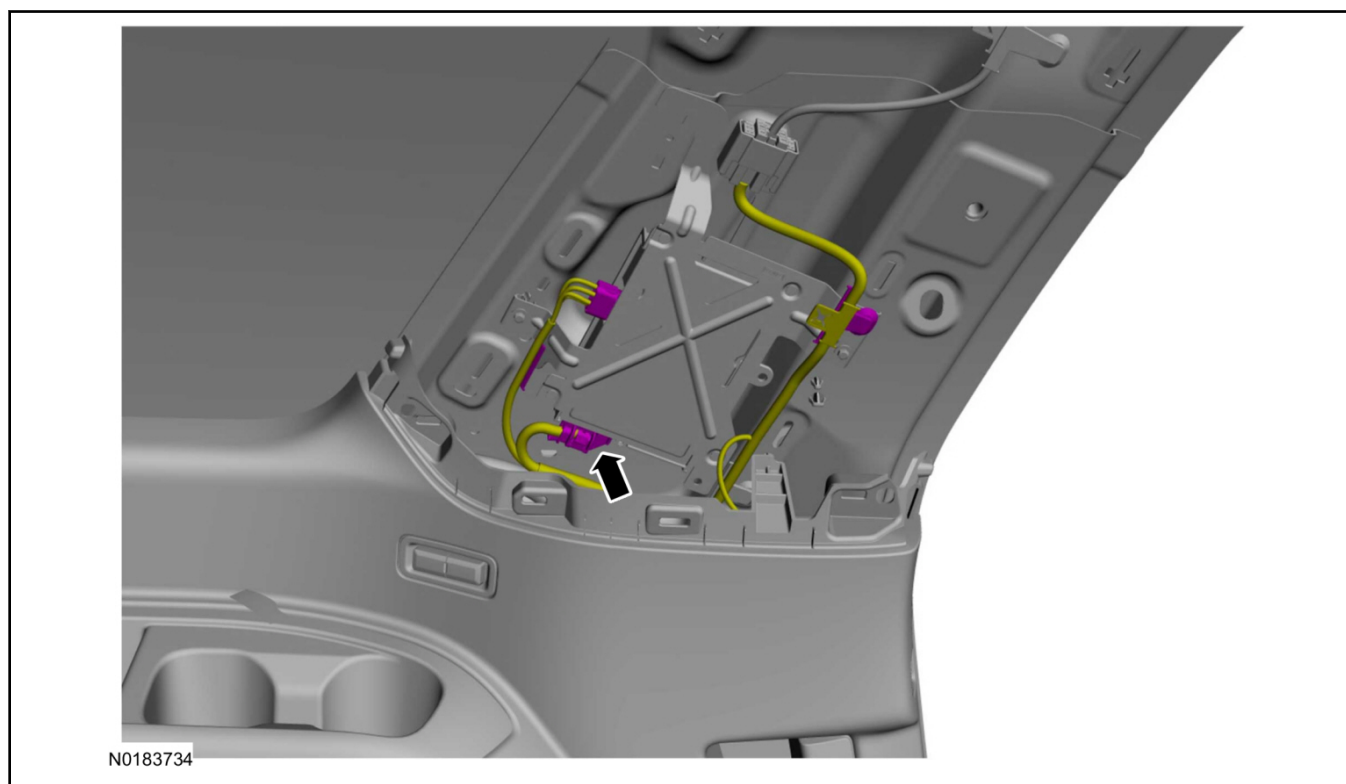


INSTALLATION (Continued)**NOTE:**

F-150, Expedition and SuperDuty, The enhanced central gateway (ECG) is located under the Front Display Interface Module, behind the sync module. For additional information refer to Workshop Manual (WSM) section 418-00.

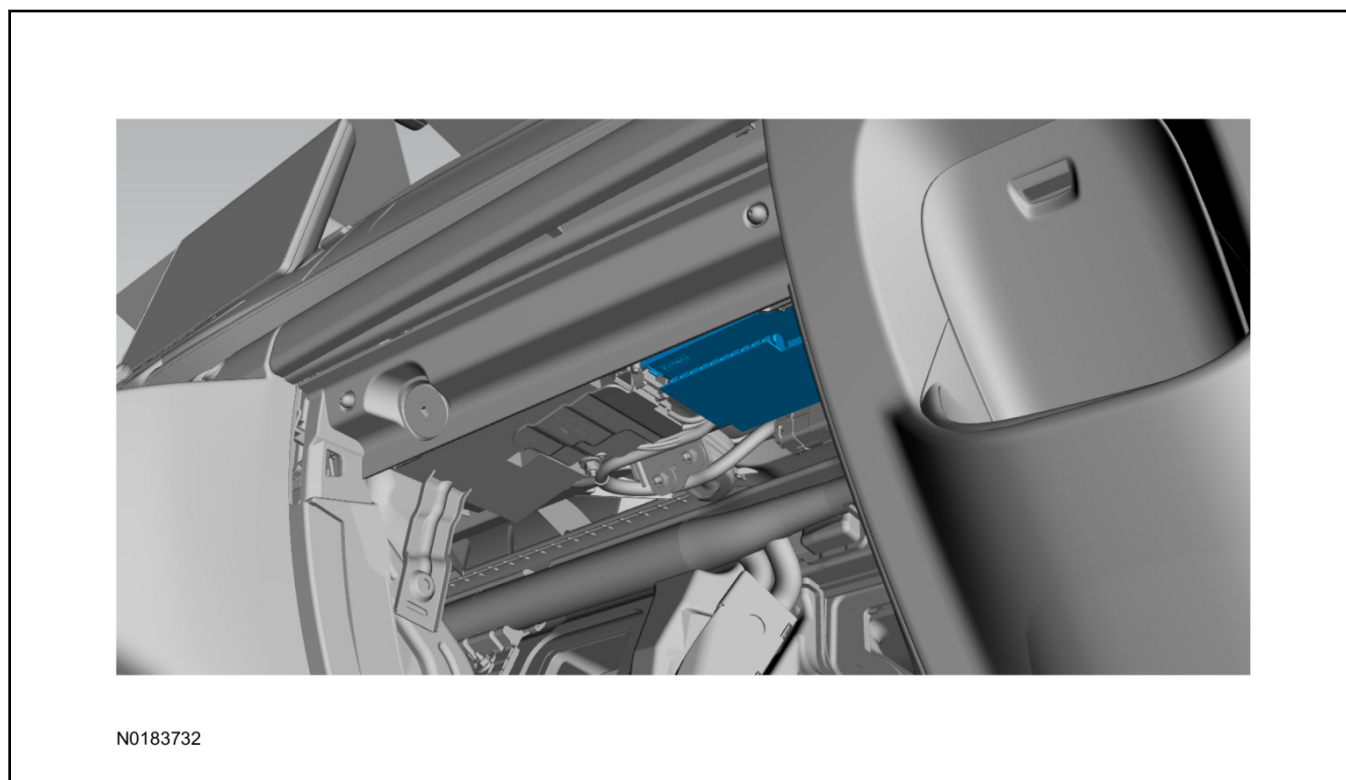
**NOTE:**

Navigator, The enhanced central gateway (ECG) is located on the Driver Side C-Pillar. For additional information refer to Workshop Manual (WSM) section 418-00.



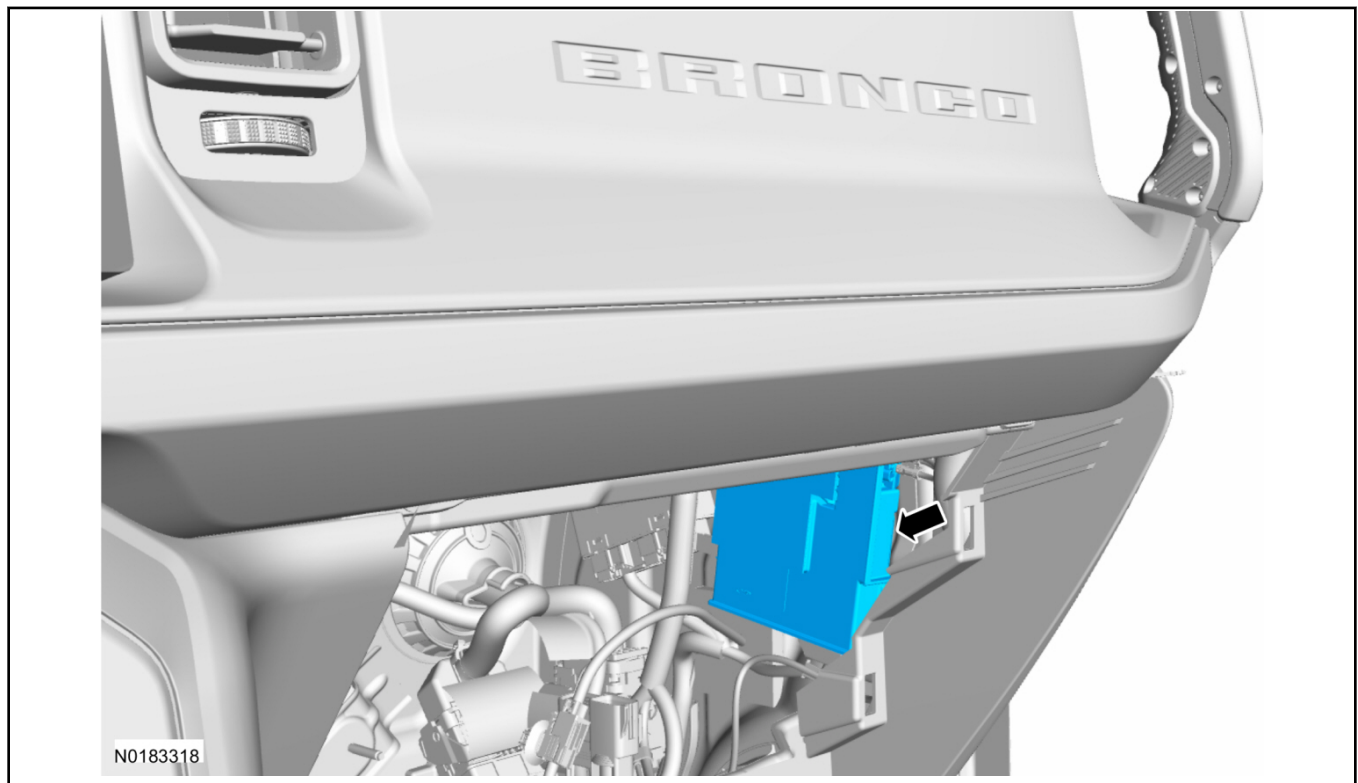
NOTE:

Transit, The SYNC 4 enhanced central gateway (ECG) is located behind the glove compartment on the top side, for SYNC 3 vehicles please refer to the "all other vehicles section". For additional information refer to Workshop Manual (WSM) section 418-00.

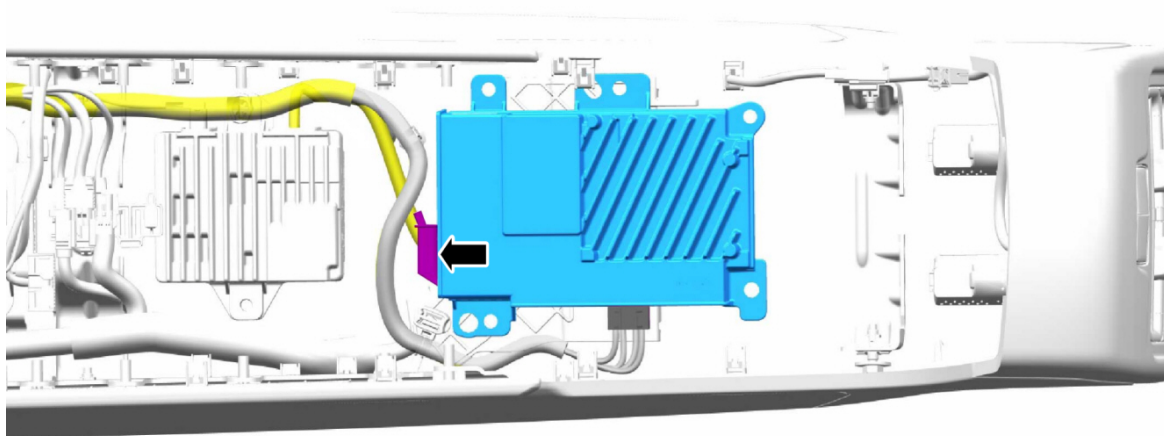


INSTALLATION (Continued)**NOTE:**

Bronco, The enhanced central gateway (ECG) module is located behind the glove compartment.

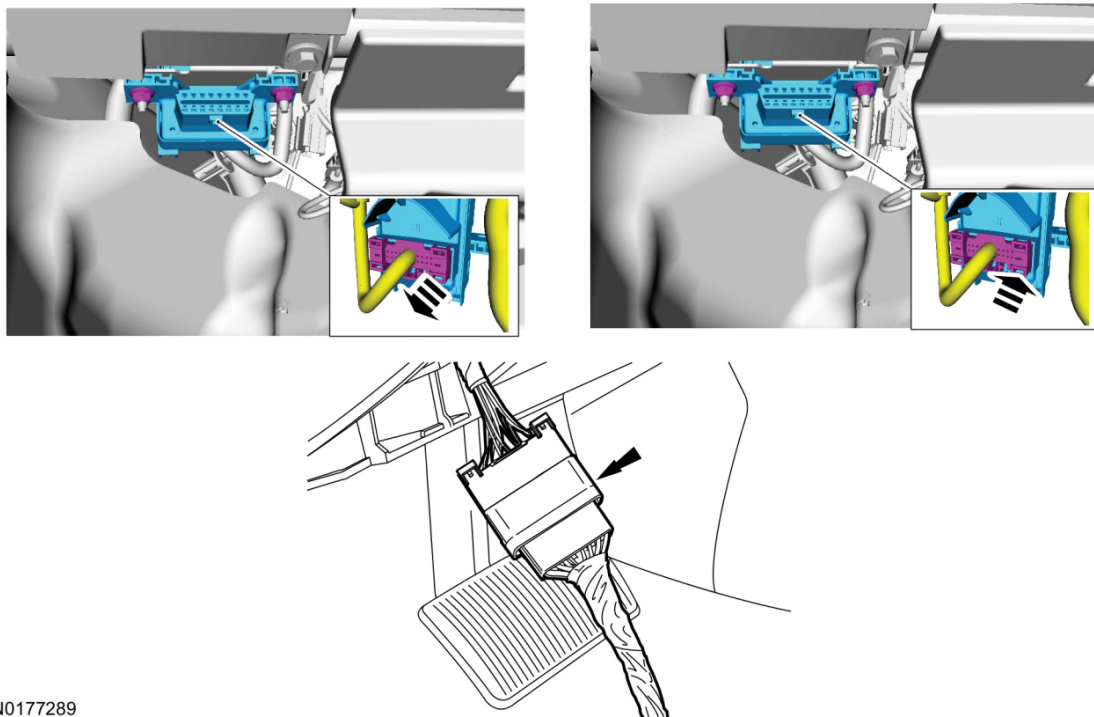
**NOTE:**

Escape and Corsair, The enhanced central gateway (ECG) is located under the center console. For additional information, please refer to Workshop Manual (WSM) Section 501-12.



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NOTE:
For all other vehicles.



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8. Position the VSS harness inside the IP being careful to avoid sharp edges and moving parts.

INSTALLATION (Continued)

9. Install and secure the VSS module to the instrument panel frame or wiring harness on the driver side of the vehicle to the left of the steering column.
 - Ensure the VSS module is positioned so the shock sensor adjustment knob can be accessed for later use.
 - Ensure the tie-strap is routed through the VSS module loops at opposite corners.
10. Connect the VSS harness to the VSS module.
 - Secure the VSS harness with tie-straps.
11. Connect the vehicle battery negative terminal. For additional information, refer to WSM Section 414-01.

Optional Security Indicator LED Mounting**CAUTION:**

Carefully route and secure the LED and harness so that it doesn't interfere with moving parts or linkages.

12. Keep the following points in mind when routing or positioning the LED for mounting:
 - Have at least 3/4" clearance behind trim panels for the wiring harness to be routed.
 - The LED should be clearly visible from the driver's side window when mounted.
 - Do not mount the LED on trim panels that cover air bags.
13. Mount the LED at an appropriate location on the upper steering column shroud, using the guidelines listed above.
 - Drill a 9/32" hole into the selected location, for the LED to mount in.
14. Route the LED wire harness to the VSS module.
15. Connect the LED wire harness to the VSS module 2-pin white connector.
 - Secure the LED wire harness with tie-straps.

Learn VSS Module to Vehicle**NOTE:**

Make sure the brake pedal is not depressed during this sequence.

16. Cycle ignition key ON then OFF.
17. Upon ignition OFF, vehicle doors will lock then unlock.

VSS Module - Optional Vehicle Security Features

18. Start with ignition key OFF, doors unlocked and VSS system DISARMED.
19. Place shifter in the PARK position (remaining in PARK).
20. Open driver door (remaining open throughout).
21. Depress and hold the brake pedal.
22. **NOTE:**

INSTALLATION (Continued)

Brake pedal application is only required during the first ignition ON then OFF cycle.

Cycle ignition key ON then OFF 5 times, then back to the ON position a 6th time. Keep ignition key in the ON position for the remainder of the program cycle.

NOTE:

The horn will sound 3 times.

23. Close the driver door.

24. Open the driver door.

25. Close the driver door. The vehicle's horn will sound 1 time to indicate the security enable/disable option has been accessed.

26. Applying and releasing the brake pedal will toggle the security feature on/off.

- The horn will sound once to indicate the security feature is ON.
- The horn will sound twice to indicate the security feature is OFF.

27. Cycle ignition key to the OFF position to exit security enable mode.

Shock Sensor Sensitivity Adjustment**NOTE:**

The VSS module is equipped with an internal dual zone Shock Sensor. The VSS system will sound the horn and flash the lights once anytime a light to moderate impact is detected, and a "panic" horn sound/light flash for a 30 second sequence when a heavy impact is detected while the VSS system is armed. Adjustment of both zones is accomplished through a single adjustment knob on the VSS module. Rotating the knob clockwise will increase sensitivity and rotating the knob counter-clockwise will decrease sensitivity. Sensitivity adjustment must be completed with the module securely mounted and the adjustment knob accessible.

28. Starting with the adjustment knob in approximately the halfway position, lower the driver's window and exit the vehicle.

29. Press the LOCK button on the vehicle's RKE fob to arm the VSS system. If equipped, the LED will light solid for 20 seconds and then begin to flash a steady on/off sequence to indicate the system is armed.

30. Using a closed fist, impact the steering wheel with moderate force to simulate a light impact on the vehicle. If the impact is detected, the horn will sound and the lights will flash 1 time to indicate the warning impact was detected.

31. Using a closed fist, impact the steering wheel with heavy force to simulate a hard impact (i.e. glass breakage) on the vehicle. If the impact is detected, the horn will sound and the lights will flash a steady on off sequence to indicate the heavy or full shock trigger was detected.

32. Increase (rotate clockwise) or decrease (rotate counter-clockwise) the adjustment knob as necessary to achieve desired sensitivity, repeat the previous steps to test, and verify adjustment.

VSS Functional Test

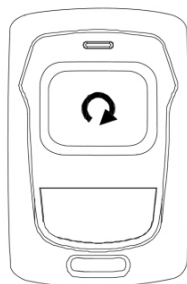
NOTE:

INSTALLATION (Continued)

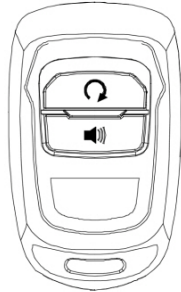
If installed, observe the LED while performing these tests.

33. Lower the driver's door window, then close all doors, hood, and trunk/hatch and press lock on the keyfob. The LED should stay lit for 20 seconds while the VSS system pre-arms, after which it will flash every 3-4 seconds in fully armed mode.
34. Reach inside the window hit the door unlock trim switch. The LED should continue to flash, indicating that the vehicle is still armed. Use the inside driver's door handle to open the door. The alarm should sound, indicating perimeter breach. Turn the alarm off by turning the ignition to "On".
 - If equipped with OE perimeter security, there will be a 12 second interior chime prior to alarm sounding. For vehicles not equipped with OE perimeter security, there will be a 12 second delay with no interior chime prior to alarm sounding.
 - For push button start vehicles, the Intelligent Access (IA) key must be away from the vehicle, otherwise the security system may disarm immediately upon trigger.
35. Exit the vehicle and arm it again, this time leaving the driver's door open. The vehicle should arm itself, ignoring the open door but monitoring the rest. Once the vehicle is armed, shut the driver's door and reopen it after a few seconds. The alarm should sound. Turn the alarm off by hitting unlock on the keyfob.
 - For push button start vehicles, the Intelligent Access (IA) key must be away from the vehicle, otherwise the security system may disarm immediately upon trigger.
36. Test all other vehicle doors, the hood and the trunk in the same manner, by setting off the alarm and disarming with the keyfob.
37. **Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.**

Standard Key Fob (15K601) "Sold Separately"



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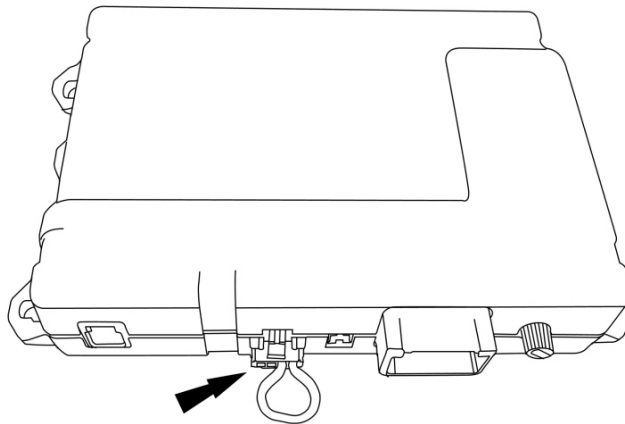
INSTALLATION (Continued)**Bi-directional Key Fob (15K601) "Sold Separately"**

N0177415

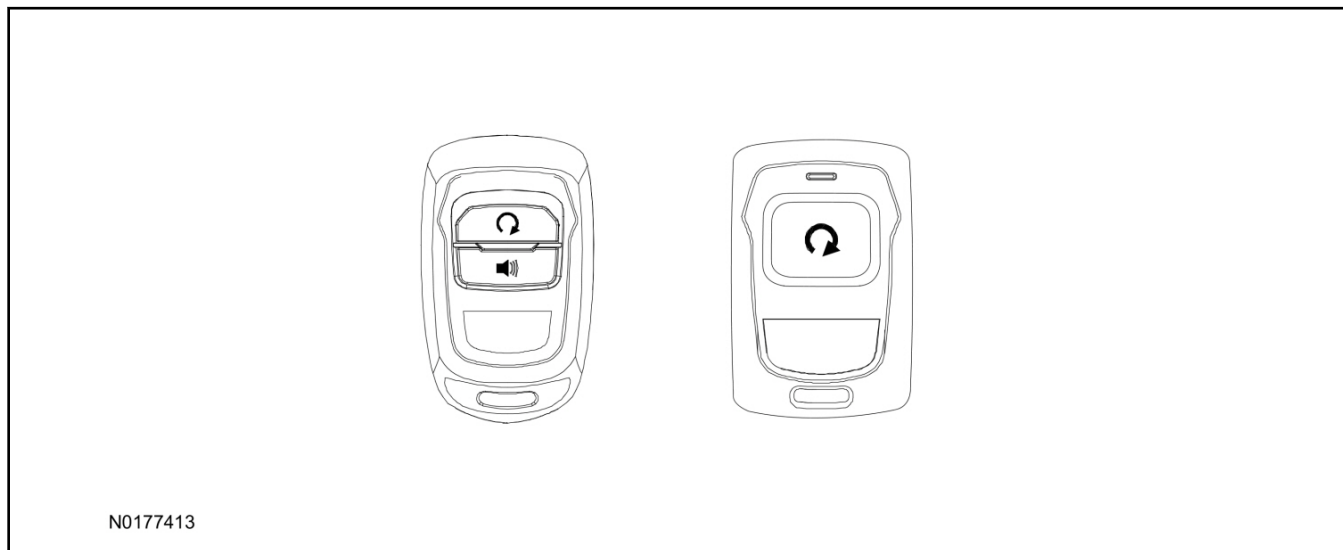
Basic Remote Start Feature**38. Enable/Disable Basic Remote Start Features:**

Locate the jumper supplied in the kit.

- Install the jumper to the VSS module if the Basic Remote Start feature is to be **enabled**.
- Not installing and/or removing the jumper from the VSS module will keep the Basic Remote Start feature **disabled**.



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INSTALLATION (Continued)**Programming Key Fobs****39. Key Start Vehicles:**

- 1 Start with ignition key OFF, doors unlocked and VSS system DISARMED.
- 2 Open driver door (remaining open throughout).
- 3 Place shifter in the PARK position (remaining in PARK).
- 4 Depress and hold the brake pedal.
- 5 Cycle ignition key ON then OFF 5 times, then back to the ON position a 6th time.
 - The horn will sound 3 times to indicate transmitter learn mode access.
- 6 Press and hold the remote start button for 3 seconds on each fob you wish to program (horn will sound indicating successful programming).
- 7 Cycle ignition key to the OFF position to exit transmitter learn mode.

INSTALLATION (Continued)**40. Push Button Start Vehicles:****NOTE:**

The following steps must be performed with the driver door open.

- 1 Enter the vehicle with the vehicle key(s) and key fobs you wish to program. Doors should be unlocked and vehicle security disarmed.
- 2 Depress and hold brake pedal.
- 3 Press the start/stop button.
- 4 After the vehicle starts, press the start/stop button to shut down.
- 5 Repeat steps 3 and 4 an additional 5 times, ending in ignition ON, engine ON.

NOTE:

The horn will sound 3 times to indicate transmitter learn mode access (some vehicles may not sound the horn 3 times).

- 6 Press and hold the remote start button for 3 seconds on each fob you wish to program (horn will sound indicating successful programming).
- 7 Cycle ignition to the OFF position to exit transmitter learn mode.

RMST Functional Test

41. Make sure the shift lever is in PARK and the ignition is in the OFF position. Remove all keys from the vehicle.
42. Close the hood.
43. Roll window down.
44. Close all of the vehicle doors.
45. Start the vehicle by pressing the remote start button twice within 3 seconds on the remote start key fob.
46. Confirm the remote start works with the vehicle in park and with the hood and doors closed.
47. Confirm full A/C and heat operation of the climate controls. If climate controls are inoperative, follow normal diagnostic procedures using the WSM.
48. Open the hood.

49. NOTE:

Vehicle doors should be closed while performing this step.

Confirm that the vehicle will not remote start with the hood open.

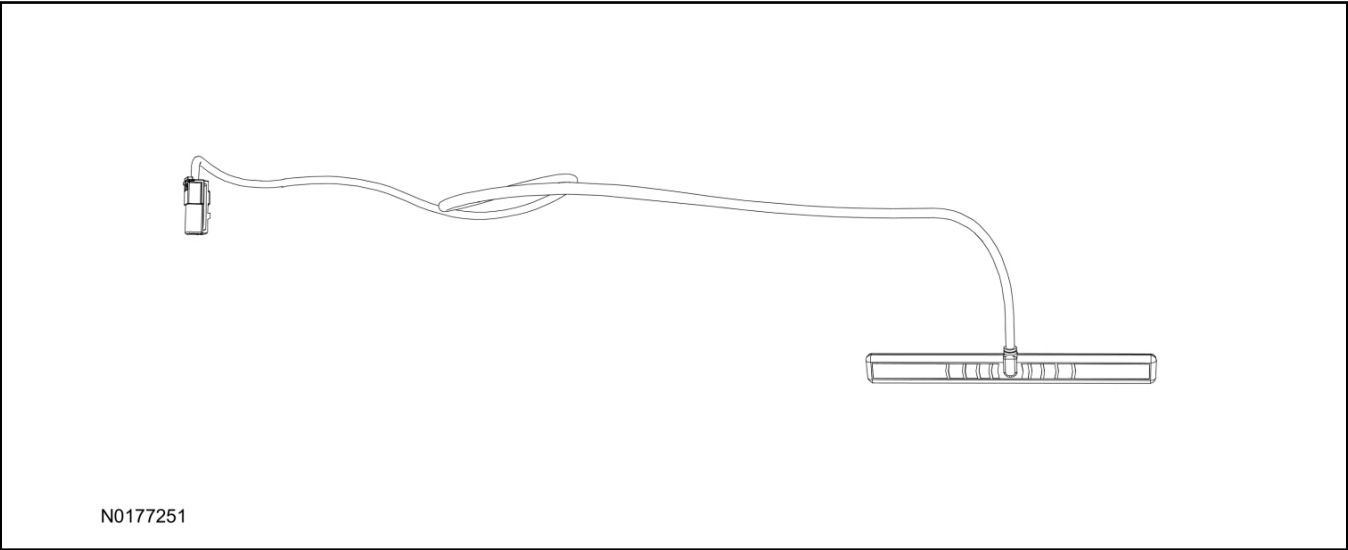
Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.

50. See the Scalable Remote Start System Diagnosis Guide to resolve issues identified by the functional test.

II. Remote Start (RMST) Upgrade - Antenna Kit "Sold Separately"

 CAUTION:

Carefully route and secure the antenna and harness so that they do not interfere with moving parts or linkages.



Optional RMST Upgrade Components "Sold Separately"

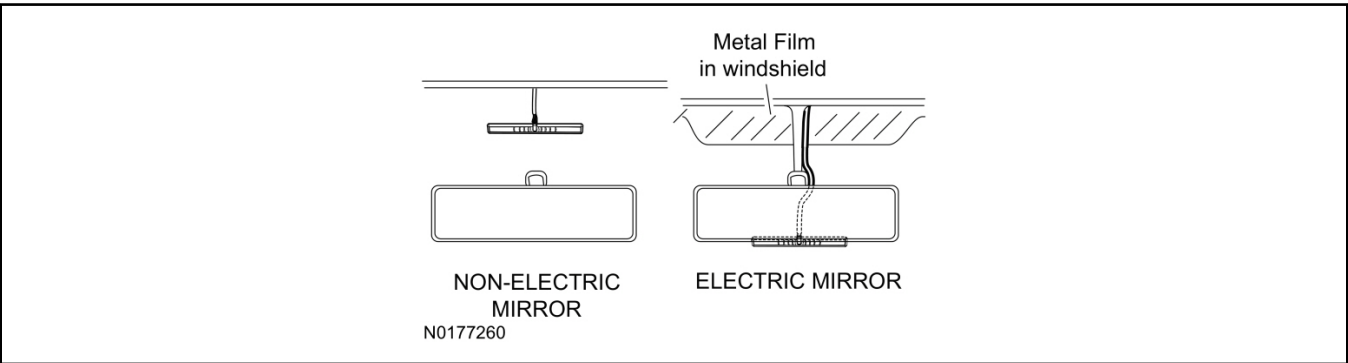
51. Review the RMST Upgrade components.

Remote Start (RMST) Upgrade - Antenna Kit "Sold Separately"

QUANTITY	DESCRIPTION
1	Extended Range Antenna (15603)

Extended Range Antenna Installation (Optional)

52. Clean the antenna mounting surface using an alcohol base solution and a clean cloth.



INSTALLATION (Continued)**53. NOTE:**

Do not touch the adhesive, reduced adhesion may result.

NOTE:

Make sure that the long wire on the antenna is pointing towards the top of the windshield since this wire will be routed along the headliner.

NOTE:

The wire will be attached to the control module later in this procedure.

Remove the protective backing from the adhesive on the antenna and firmly press the body of the antenna onto the mounting surface.

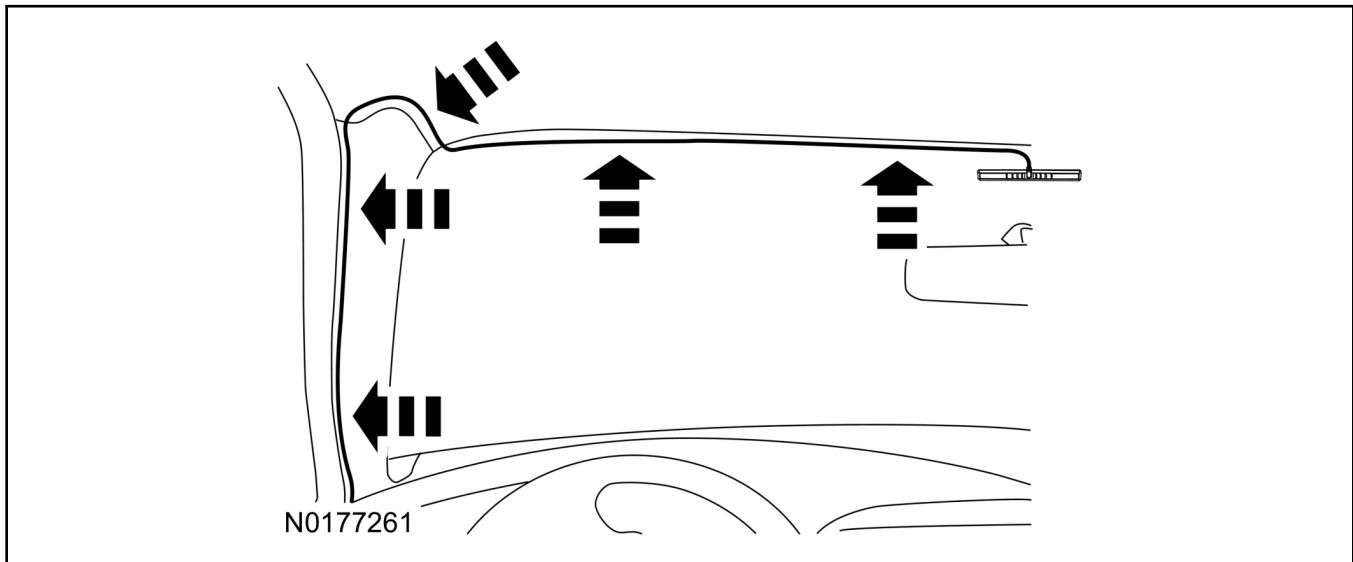
54. Position the LH A-pillar trim slightly outward to provide access to route the antenna wire.

NOTE:

Do not route the antenna wire over the top of air bags.

55. Route the antenna cable along the headliner and down the LH A-pillar towards the floor. Continue routing the wire into the IP towards the VSS module.

- Secure with tie-straps.



56. Connect the antenna connector to the VSS module.

57. Reposition the A-pillar trim panel back.