Splicing Procedures

NOTE:

Refer to applicable wiring diagrams for circuit information.

NOTE:

This procedure contains multiple splicing techniques.

NOTE:

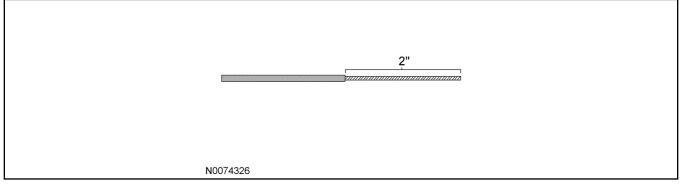
Review splicing procedures prior to performing any cutting/soldering/splicing.

2-Wire Solder "Center Splice" With No Wire Cutting

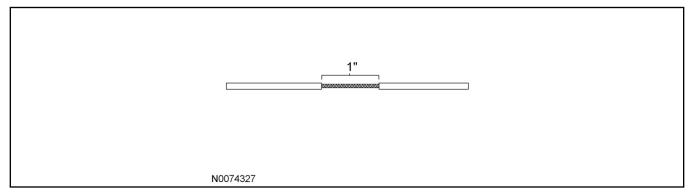
NOTE:

Follow this procedure when a wire can be spliced without cutting the wire in half.

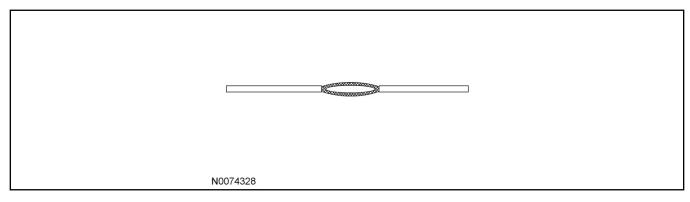
1. Strip approximately two inches of insulation from the wire to be installed in the vehicle.



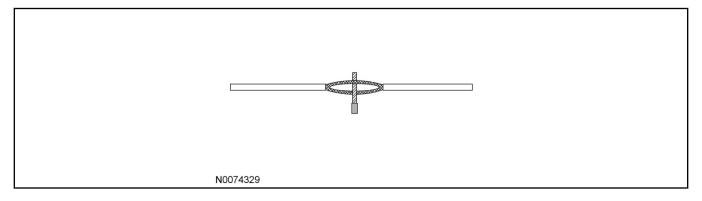
2. On the vehicle wire to be spliced into, strip one inch of insulation from the wire.



3. On the vehicle wire to be spliced into, separate the strands to allow the new wire to be placed.



4. Insert the new wire between the parted strands. If more than one wire is being spliced, wrap them in opposite directions.



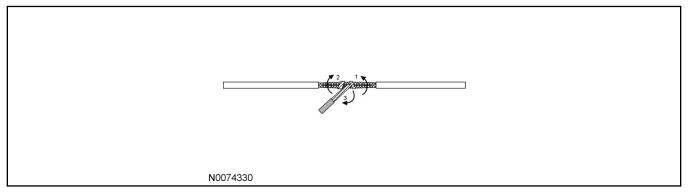
NOTE:

Use Rosin Core Mildly-Activated (RMA) Solder. Do not use Acid Core Solder.

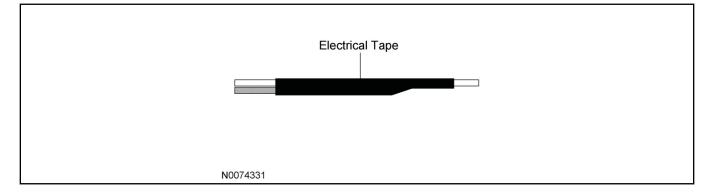
NOTE:

Wait for solder to cool before moving wires.

- 5. Wrap the new wire around one side of the split strands, then wrap it around the other side.
 - 1 Solder the connection.



- 6. Wrap the connection with electrical tape so the tape covers the wires approximately two inches on either side of the connection.
 - 1 Tape the wires together as shown in the illustration.



2-Wire Solder Splice/Ratcheting Crimp Tool Splice Procedure

NOTE:

For 10-14 AWG Use The following "Ratcheting Crimp Tool Splice Procedure".

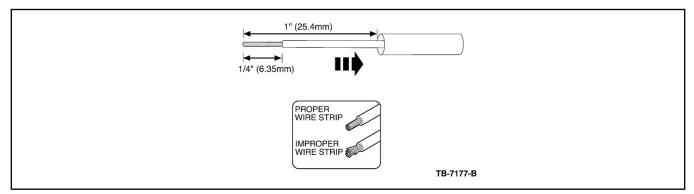
NOTE:

For Splicing Procedure Use Wire Splice Tool Kit (164-R5903).

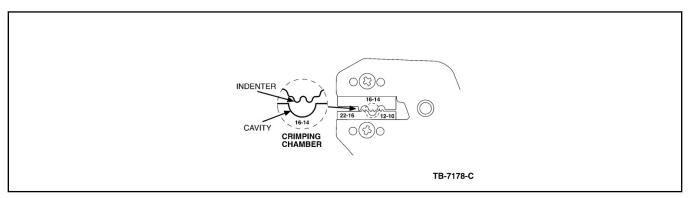
7. **NOTE:**

The strip length will vary depending on the butt splice and wire in harness. Longer strip lengths are required when the wire needs to be folded to mate with the butt splice. Refer to chart for strip lengths and folding techniques.

Strip 1/4" (6.35 mm) of insulation from pigtail wire end once the wire lengths are sized so repairs can be staggered. Take care not to nick or cut wire strands. Pull wire straight from stripper. If wire is pulled at an angle, wire strands may be cut off. If more than one (1) strand is cut off during stripping, cut off the end and re-strip. Slide heat shrink tubing onto one (1) of the wire ends to be crimped, must be at least 1" (25.4mm) away from the stripped end.

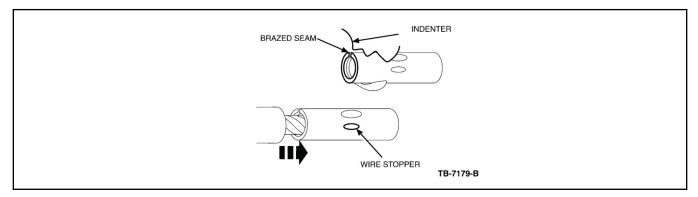


8. Identify the appropriate crimping chamber of the Rotunda 164-R5901 Pro-Crimper (or equivalent) by matching the wire size on the dies with the wire size stamped on the butt splice. Hold the crimping tool so the identified wire sizes are facing you. Squeeze tool handles together until the ratchet releases, then allow the jaws of the tool to open fully.



3

9. Center one (1) end of the butt splice on the appropriate crimping chamber. If visible, be sure to place the brazed seam of the butt splice toward the indenter. Hold the butt splice in place and squeeze the tool handles together until the ratchet engages sufficiently to hold the butt splice in position (typically one (1) or two (2) clicks). DO NOT deform the butt splice. Insert stripped wire into the butt splice, making sure the insulation on wire does not enter the butt splice.

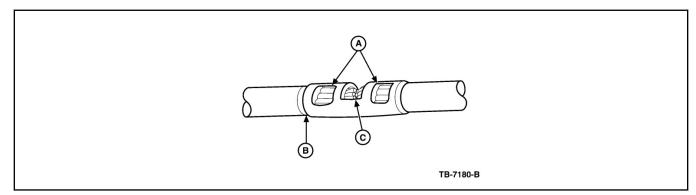


10. Holding the wire in place, squeeze tool handles together until ratchet releases. Allow tool handles to open, then remove crimped butt splice.

To crimp the other half of the splice, reposition the un-crimped wire barrel in the same crimping chamber, and repeat the crimping procedure. If splice cannot be turned for crimping the other half, turn the tool around.

Check for acceptable crimp.

- 1 Crimp should be centered on each end of the butt splice. It is acceptable for crimp to be slightly off center, but not off the end of the butt splice (A).
- 1 Wire insulation does not enter butt splice. Wire is flush with or extends slightly beyond end of butt splice (B).
- 1 Wire is visible through inspection hole of splices (C).



Overlap heat shrink tubing on both wires.

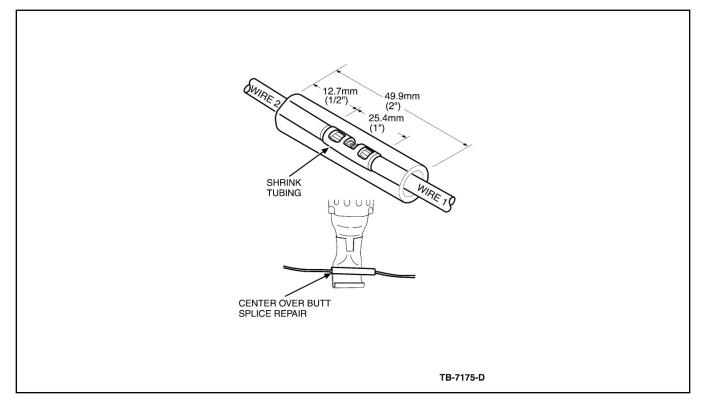
NOTE:

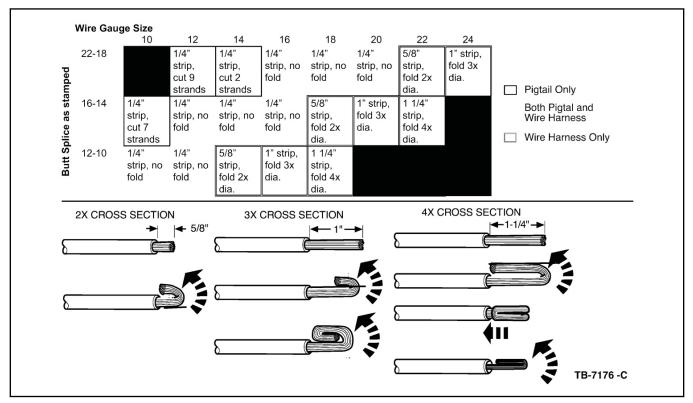
The hot melt forms an adhesive seal between the wire insulation and the heat shrink tubing, which prevents air and moisture from entering the solder point.

NOTE:

Durability of a heat shrink tubing splice is dependent on the hot melt that will appear from both ends of the tube.

Evenly position heat shrink tubing over wire repair. Use a shielded heat gun to heat the entire length of the heat shrink tubing until the hot melt appears from both ends of the tubing.

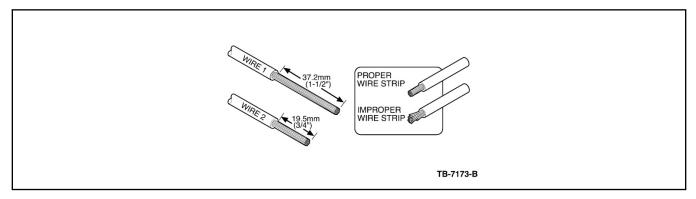




Wire Stripping Lengths and Application Techniques.

For 16-22 AWG wire use either the above "Ratcheting Crimp Procedure" or the following "2 Wire Solder Splice Procedure".

12. Strip 1 1/2" (37.2 mm) of insulation from Wire #1 and 3/4" (19.5mm) of insulation from Wire #2, taking care not to nick or cut wire strands. Pull wire straight from stripper. If wire is pulled at an angle, wire strands may be cut off during stripping. Cut off the end and re-strip.



Use rosin core mildly activated (RMS) solder. do not use acid core solder for wire repair.

NOTE:

Overlap tubing on both wires and wait for solder to cool before moving the wires.

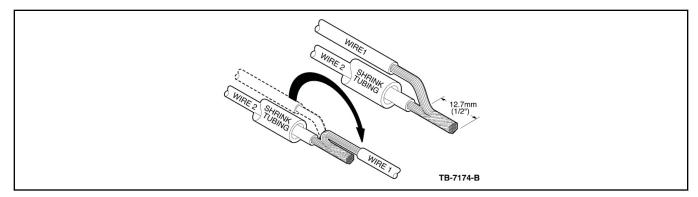
NOTE:

Durability of a heat shrink tubing splice is dependent on the hot melt that will appear from both ends of the tube.

NOTE:

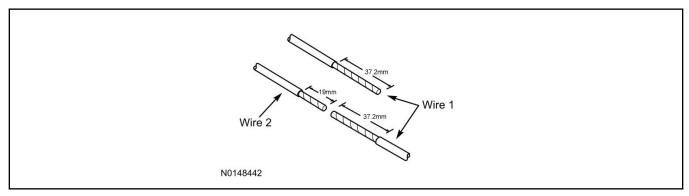
The hot melt forms an adhesive seal between the wire insulation and the heat shrink tubing, which prevents air and moisture from entering the solder point.

Install heat shrink tubing at least 1" (26 mm) away from one of the stripped ends being spliced. Twist the wires together. Solder wires together. Bend Wire #1 back in a straight line for sealing. Inspect solder joint bond. Evenly position heat shrink tubing over wire repair. Use a shielded heat gun to heat the entire length of the heat shrink tubing until the hot melt appears from both ends of the tubing.



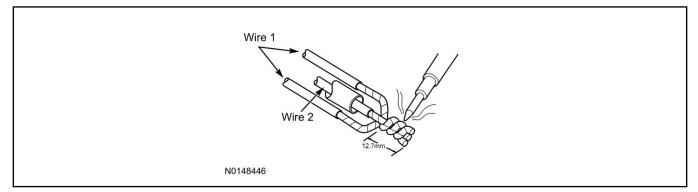
3-Wire Solder Splice Procedure

14. Strip 1 1/2" (37.2 mm) of insulation from both sides of Wire #1 and 3/4" (19 mm) of insulation from Wire #2, taking care not to nick or cut wire strands. Pull wire straight from stripper. If wire is pulled at an angle, wire strands may be cut off during stripping. Cut off the end and re-strip.

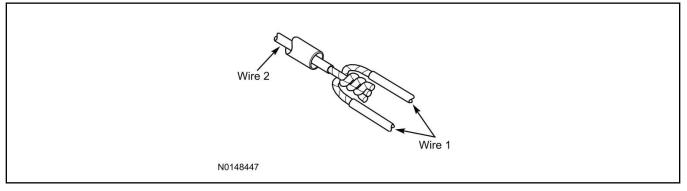


Wait for solder to cool before moving wires.

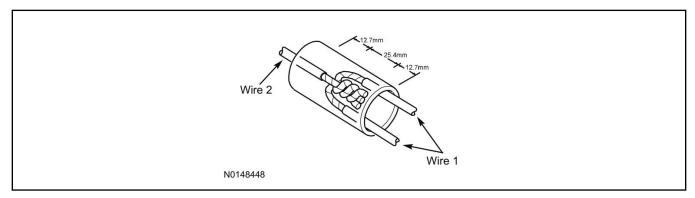
Apply heat shrink tubing to Wire #2. Twist both ends of Wire #1 around Wire #2. Solder wires together.



16. Bend Wire #1 back over the twisted wires for sealing. Inspect solder joint bond.



17. Evenly position heat shrink tubing over wire repair.

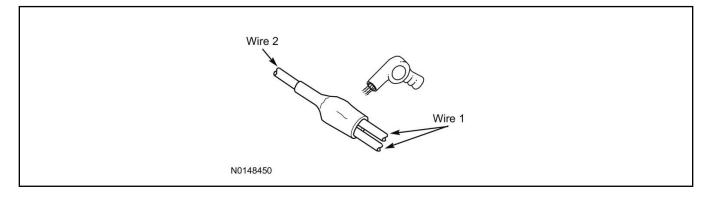


Durability of a heat shrink tubing splice is dependent on the hot melt that will appear from both ends of the tube.

NOTE:

The hot melt forms an adhesive seal between the wire insulation and the heat shrink tubing, which prevents air and moisture from entering the solder point.

Use a shielded heat gun to heat the entire length of the heat shrink tubing until the hot melt appears from both ends of the tubing.



Vehicle Security / Remote Start / Remote Access System Installation

CONTENTS

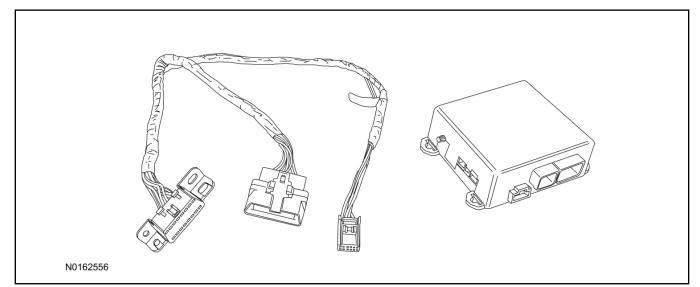
INSTALLATION VSS Module Installation Security Indicator LED Mounting RMST Kit Antenna Installation RMU Module Installation GENERAL PROCEDURES Learn VSS to vehicle Shock Sensor Sensitivity Adjustment Standard Remote Start Activation RMU Remote Start Activation RMU Activation

Proper Wire Splicing Techniques

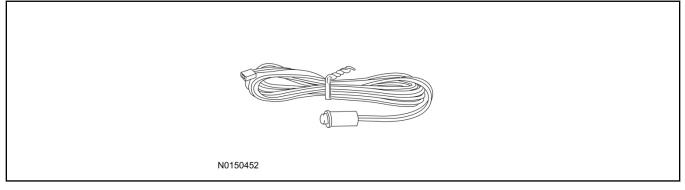
INSTALLATION

Vehicle Security / Remote Start / Remote Access - Expedition/Navigator

VSS System Components



Security Indicator LED (19D596) "Optional"



Expedition/Navigator

1. Verify correct kit number.

Review VSS Kit Contents

NOTE:

Kits are vehicle specific and are not interchangeable.

2. Review the VSS kit contents.

Vehicle Security System (VSS) Kit

QUANTITY	DESCRIPTION
1	VSS Module
1	T-harness

INSTALLATION (Continued)

Vehicle Security System (VSS) Kit(Continued)

6	Tie-straps
1	Owner's Manual

Security Indicator LED Kit Contents "Optional"

3. Review the Security Indicator LED kit contents.

Security Indicator LED Kit

QUANTITY	DESCRIPTION
1	Security Indicator LED

I. VSS System Installation

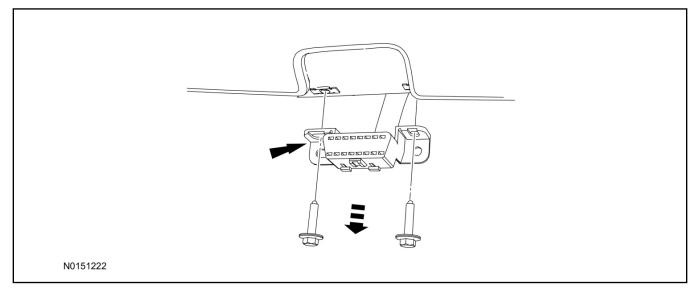
ACAUTION:

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

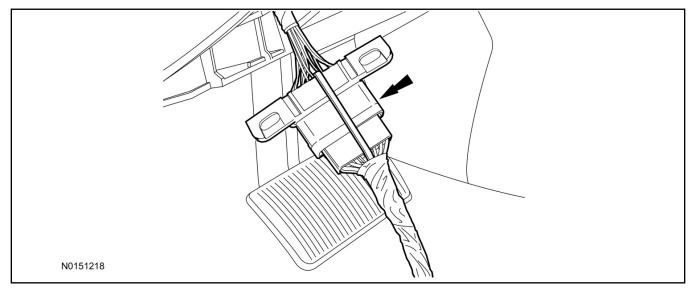
NOTE:

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

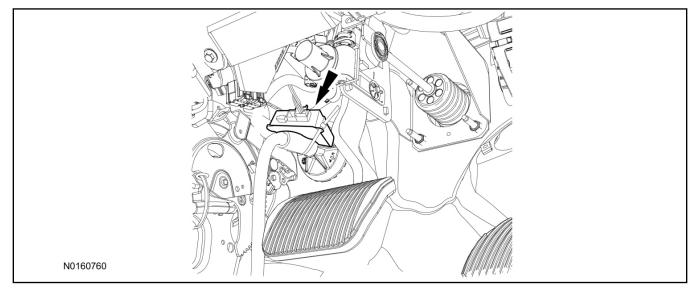
4. Remove the 2 bolts and remove the OBD II port from the IP frame.



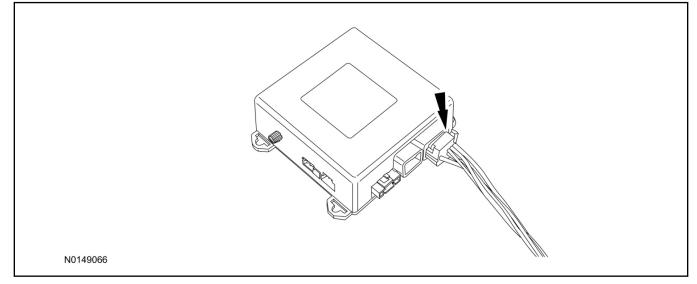
- 5. Connect the VSS T-harness to the OBD II port.
 - Secure the T-harness to the OBD II port using a tie-strap.



- 6. Position the VSS harness inside the IP being careful to avoid sharp edges and moving parts.
- 7. Install the new VSS harness OBD II port to the IP frame and install the bolts.
 - Do not over tighten.
- 8. Position the VSS module on top of the main driver side bulkhead wire harness and secure it to the wire harness with tie-straps.
 - 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.



- 9. Connect the VSS harness to the VSS module.
 - Secure the VSS harness with tie-straps.



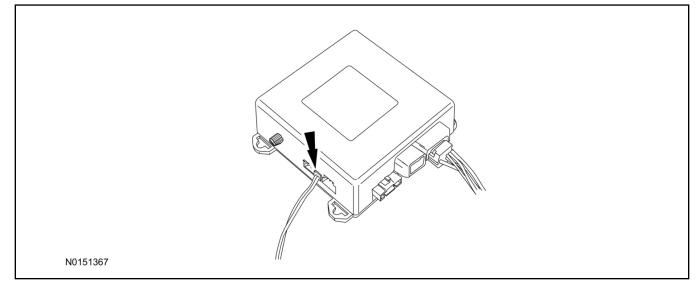
Optional Security Indicator LED Mounting

CAUTION:

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

- 10. 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.
- 11. 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.
- 12. Route the LED wire harness to the VSS module.

- 13. Connect the LED wire harness to the VSS module 2-pin white connector.
 - Secure the LED wire harness with tie-straps.



Learn VSS to Vehicle (Key Start Vehicles Only)

NOTE:

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

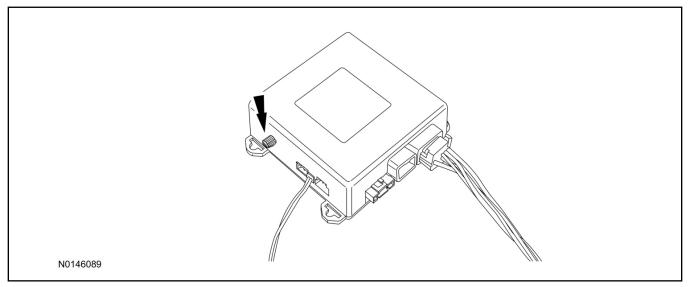
- 14. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 15. Put the key in the ignition.
- 16. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 17. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.

2015 Expedition/Navigator INSTALLATION (Continued)

Shock Sensor Sensitivity Adjustment

NOTE:

The VSS module is equipped with an internal dual zone Shock Sensor. The VSS system will activate a single horn honk/single light flash anytime a light to moderate impact is detected, and a "panic" type 30 second horn honk/light flash 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.



- 18. Starting with the adjustment knob in approximately the halfway position, lower the driver's window and exit the vehicle.
- 19. 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.
- 20. 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 honk and the lights will flash 1 time to indicate the warning impact was detected.
- 21. 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 honk and the lights will flash a steady on off sequence to indicate the heavy or full shock trigger was detected.
- 22. 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:

If installed, observe the LED while performing these tests.

23. 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.

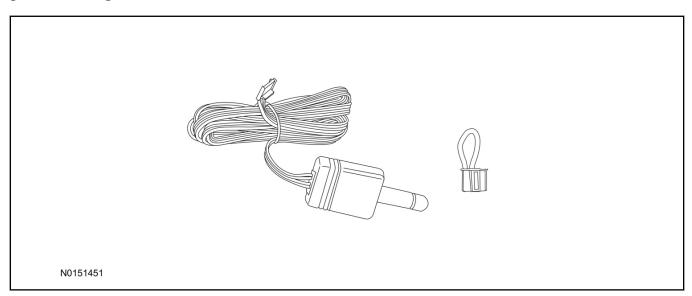
- 24. Reach inside the window hit the door unlock trim switch. The LED should continue to flash, indicating that the vehicle is still armed. Use the inside driver's door handle to open the door. The alarm should sound, indicating perimeter breach. Turn the alarm off by turning the ignition to "On".
 - 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.
- 25. 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.
- 26. Test all other vehicle doors, the hood and the trunk in the same manner, by setting off the alarm and disarming with the keyfob.

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

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

ACAUTION:

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



Standard Key Fob (15K601) "Sold Separately"



N0151499

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



Optional RMST Upgrade Components "Sold Separately"

28. Review the RMST Upgrade components.

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

QUANTITY	DESCRIPTION
1	Bi-directional Antenna (TBD)
1	Security Jumper (TBD)

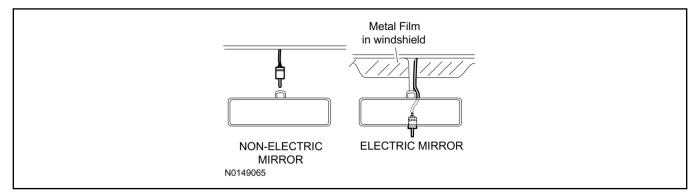
Standard Key Fob (15K601) "Sold Separately"

QUANTITY	DESCRIPTION
1	Standard Key Fob (15K601)

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

QUANTITY	DESCRIPTION
1	Bi-directional Key Fob (15K601)

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



30. **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.

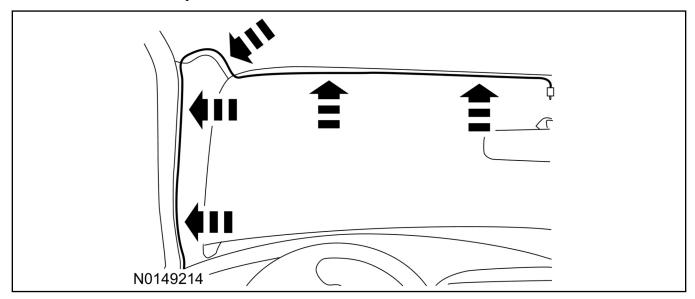
Remove the protective backing from the adhesive on the antenna and firmly press the body of the antenna onto the mounting surface.

31. 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.

- 32. 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.



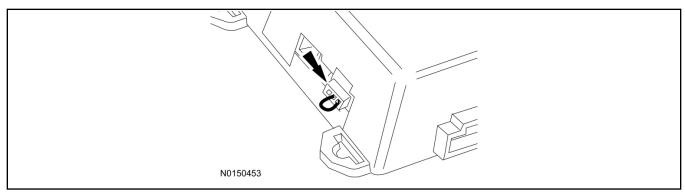
- 33. Connect the antenna connector to the VSS module.
- 34. Reposition the A-pillar trim panel back.

VSS Module - Optional Vehicle Security Features

35. Enable/Disable Vehicle Security Features:

Locate the security jumper supplied in the kit.

- Install the jumper to the VSS module if the vehicle security features are to be disabled.
- Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



RMST Activation - Key Start Only

NOTE:

For vehicles that have remote start enabled, proceed to Step 42 for push button start and Step 43 for key start vehicles within the "Programming Key Fobs" section of this manual.

- 36. Verify that the IDS is updated to the most current version.
- 37. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Verify VIN.
- 38. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Programmable Parameters.
 - Select Remote Start.

Programmable Module Installa	on 🕨	
Module Reprogramming	•	<u> </u>
Programmable Parameters	Transmission	
As-Built	Ride Height Calibration	
	IVD Initialization Sequence	
	Personality	
	Exterior Lighting	
	Warning Lamps / Chimes	
	Power Door Locks	
	Tire Size / Axle Ratio	(
	Remote Start	
	Brake System Configuration	
	Police Mode	
	Tire Pressure Monitoring System	
	Tire Size / Axle Ratio	
		Image: A start of the start
1		

- 39. Verify that the instructions on the IDS screen have been completed and continue until you reach the screen below.
 - From this screen, you must select the feature and then select the "Enabled" text (to the right) for these items:
 - Remote Start (BdyCM)
 - Climate Control (IC)

- Driver Seat (IC)
- Remote Start (IC)
- Passenger Seat (IC)
- Rear Defrost (IC)
- Remote Start Front Defrost (HVAC)
- Remote Start Heater A/C HVAC (HVAC)
- Remote Start Quiet Start HVAC (HVAC)
- Once all appropriate items have been enabled, select the Tick button to direct IDS to enable the remote start option on the vehicle.

IDS-92	201 **** 🌮		- 8 ×
	Remote Start - (BdyCM) = Enabled Climate Control - (IC) = Enabled Driver Seat - (IC) = Enabled Remote Start - (IC) = Enabled Passenger Seat - (IC) = Enabled Rear Defrost - (IC) = Enabled Remote Start Front Defrost HVAC - (HVAC) = Enabled Remote Start Heater A/C HVAC - (HVAC) = Enabled Remote Start Quiet Start HVAC - (HVAC) = Enabled	Disabled * Enabled	

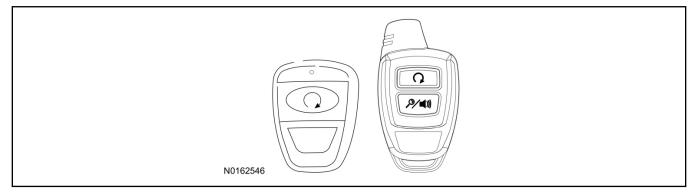
For Expedition vehicles that have the single display instrument cluster the remote start menus will not be available.

For vehicles equipped with standard message center, verify that the remote start option now appears.

- Using the Select and Arrow buttons on the steering wheel, select Settings.
- Select Convenience.
- Select Remote Start.
- Select System.
- Verify that the remote start system is checked.

- 41. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Programming Key Fobs



42. Key Start Vehicles:

NOTE:

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

- 1 Start with doors unlocked
- 2 Driver's door open (remaining open throughout)
- 3 Verify that the gearshift lever is in the "PARK" position.
- 4 Depress and hold brake pedal.
- 5 Start with ignition key OFF.
- 6 Cycle ignition key to the ON then OFF position 5 times, then back to the ON position a 6th time.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 7 Press the START button on each transmitter you wish to program. The horn will honk 1 time each time the START button is pressed to indicated the transmitter has been learned.
- 8 Cycle ignition key to the OFF position to exit transmitter learn mode.
- **9 NOTE:**

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

43. Push Button Start Vehicles:

NOTE:

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

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.
- 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 four times, ending in ignition off, engine off.
- 6 Release the brake pedal.
- 7 Press the vehicle start/stop button twice to turn ignition on.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 8 Press the remote start button on each fob you wish to program (horn will honk indicating successful programming).
- 9 Cycle ignition to the OFF position to exit transmitter learn mode.

10 **NOTE:**

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

RMST Functional Test

- 44. Make sure the shift lever is in PARK and the ignition is in the OFF position. Remove all keys from the vehicle.
- 45. Close the hood.
- 46. Close all of the vehicle doors.
- 47. Start the vehicle by pressing the remote start button twice within three seconds on the remote start key fob.
- 48. Confirm the remote start works with the vehicle in park and with the hood and doors closed.
- 49. Open the hood.

50. NOTE:

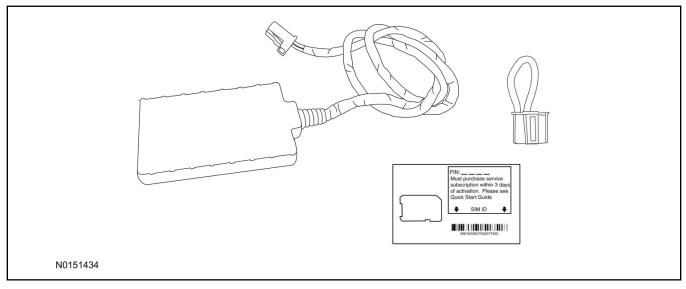
Vehicle doors should be closed while performing this step.

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

III. Remote Access (RMU) Upgrade "Sold Separately"

NOTE:

When installing remote access on key start equipped vehicles, you must learn the VSS to the vehicle.



52. Review the RMU upgrade components.

Optional Components — Remote Access (RMU) Upgrade "Sold Separately"

QUANTITY	DESCRIPTION
1	Remote Messaging Unit (RMU)
1	SIM Card Carrier
1	Security Jumper
5	Tie Wraps (not shown)

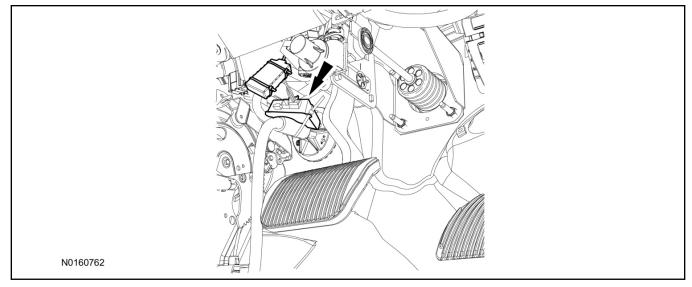
ACAUTION:

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

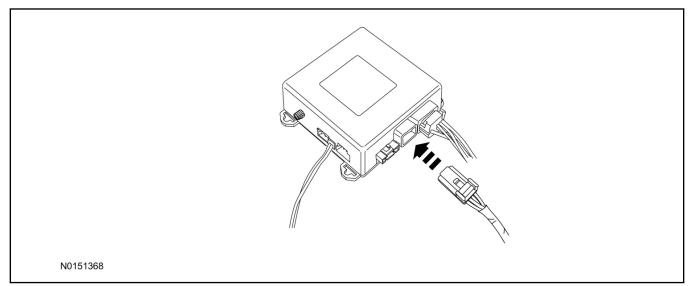
NOTE:

For proper range of operation, the RMU must be installed as shown in the diagram below.

53. Using tie-straps secure the RMU to the IP harness near the previously installed VSS module.



- 54. Connect the RMU electrical connector to the VSS module.
 - Secure the harness with tie-straps.

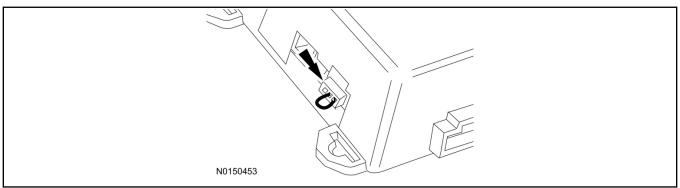


VSS Module - Optional Vehicle Security Features

55. Enable/Disable Vehicle Security Features:

Locate the security jumper supplied in the kit.

- Install the jumper to the VSS module if the vehicle security features are to be **disabled**.
- Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



RMST Activation - Key Start Only

- 56. Verify that the IDS is updated to the most current version.
- 57. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Verify VIN.

- 58. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Programmable Parameters.
 - Select Remote Start.

Programmable Module Installat Module Reprogramming	on F	
Programmable Parameters	Transmission	
As-Built	Ride Height Calibration	
	IVD Initialization Sequence	
	Personality	
	Exterior Lighting	
	Warning Lamps / Chimes	
	Power Door Locks	
	Tire Size / Axle Ratio	
	Remote Start	
	Brake System Configuration	
	Police Mode	
	Tire Pressure Monitoring System	
	Tire Size / Axle Ratio	
		· · · · · · · · · · · · · · · · · · ·

- 59. Verify that the instructions on the IDS screen have been completed and continue until you reach the screen below.
 - From this screen, you must select the feature and then select the "Enabled" text (to the right) for these items:
 - Remote Start (BdyCM)
 - Climate Control (IC)
 - Driver Seat (IC)
 - Remote Start (IC)
 - Passenger Seat (IC)
 - Rear Defrost (IC)

Г

- Remote Start Front Defrost (HVAC)
- Remote Start Heater A/C HVAC (HVAC)
- Remote Start Quiet Start HVAC (HVAC)
- Once all appropriate items have been enabled, select the Tick button to direct IDS to enable the remote start option on the vehicle.

Remote Start - (BdyCM) = Enabled	
Climate Control - (IC) = Enabled Driver Seat - (IC) = Enabled Remote Start - (IC) = Enabled Passenger Seat - (IC) = Enabled Rear Defrost - (IC) = Enabled	Disabled * Enabled
Remote Start Front Defrost HVAC - (HVAC) = Enabled Remote Start Heater A/C HVAC - (HVAC) = Enabled Remote Start Quiet Start HVAC - (HVAC) = Enabled	

For Expedition vehicles that have the single display instrument cluster the remote start menus will not be available.

For vehicles equipped with standard message center, verify that the remote start option now appears.

- Using the Select and Arrow buttons on the steering wheel, select Settings.
- Select Convenience.
- Select Remote Start.
- Select System.
- Verify that the remote start system is checked.
- 61. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

RMU Activation

NOTE:

Please note that the Remote Access application that is used to start the vehicle for this RMST kit will only work with iPhone and Android phones.

- 62. For RMU activation the following information from the customer is recommended to provide them with electronic notification for app retrieval:
 - 1 Email Address
 - 2 Cell Phone Number
 - 3 Cell Phone Carrier Company

63. Log on to your Professional Technician Society (PTS) account and enter the vehicle information.

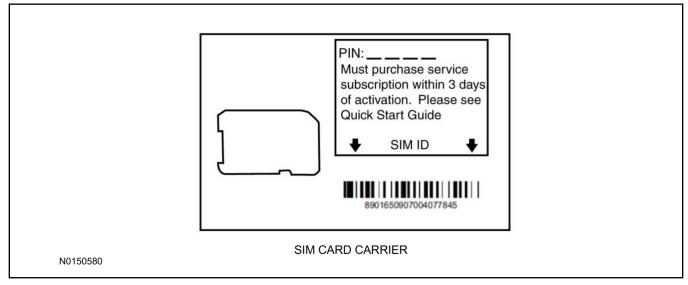
- 1 Select "Vehicle Id".
- 2 Select "By Year & Model"
- 3 Choose the year & model of the vehicle and then select "GO".
- 4 Hover over the "Workshop" tab.
- 5 Select the "Accessory Installation" menu item.
- 6 Under the "Electrical" heading, select the "Remote Access Activation" link (first time users will need to agree to terms & conditions).
- 7 Select the "Install or Diagnose" link.

NOTE:

If you are not directed to the screen shown below (or user agreement screen for first time users), make sure your internet browser zone settings are set to medium. This setting can be found in your browsers "internet options" under the "privacy" tab.

CUSCOM CONTRACTOR IN ACCESSORIES	LOG OUT
DEALER TOOLS	
Install or Push Diagnose Mobile App	
DOCUMENTATION & MANUALS	
N0150870	

64. Once on the "Install" page, enter the SIM ID code that was provided with the RMST kit. Select "Begin or Continue Installation".



65. Click on the "On screen steps 1-6", and follow the on screen instructions to complete the installation.



NOTE:

The following step will complete the activation process, when you are directed to a screen similar to the one below ensure the correct vehicle brand is selected and that all applicable features are enabled.

NOTE:

The "perimeter" and "shock" settings below are optional features and should only be selected when security features are enabled.

NOTE:

On screen Step 3 shown below.

Installation Details			
Brand	Ford 💌		
Security Features	2 Requery		
Start			
🔽 Stop			
🔽 Lock			
🔽 Unlock			
🔽 Car Finder			
Perimeter			
☑ Shock			
Neturn			Continue
N0150305			

On screen Step 4 shown below.

Perform a functional check of the system by testing each of the available features.

- Start/Stop function
- Lock/Unlock function
- Car finder
- Signal (for troubleshooting only)

Session Status	*	Yes								
Network Connection	*	Yes								
IP Assigned	+	10.64.17.	233							
Comm Established	*	Yes								
Received IMEI	*	35890104	1730422							
Received ESN	*	16630001	17							
Your install has bee	en tes	ted succes:	sfully. If you we	ould like to test the	physical function	ins of the	module, you	can do so belo	W.	
Start Start	ор	Lock	Unlock	Gar Finder	Signal					
Neturn										Continue

NOTE:

All tests above must be completed in order to move to the next step. If any of the listed functions fail, retest or move the vehicle to an outside location and retest.

Key Start Vehicles Only

NOTE:

In the event start or stop fail, refer to the "Remote Start Activation" section in this manual.

NOTE:

In the event lock/unlock or car find fail, refer to the "Learn VSS to Vehicle" section in this manual.

All Vehicles

- 67. Once the hardware installation and RMU activation process is complete, record the 4-digit PIN on the SIM card carrier. Provide the SIM card carrier to the customer so they can add this system to their Remote Access Account. Customer must have both the 4-digit PIN and SIM ID to activate/add their vehicle to their Remote Access Account.
- 68. If the customer agrees, you may push the mobile application to the customer. You will need the customer's phone number and cellular carrier. If the customer opts to install the application themselves, they can locate it in their mobile app store.

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

Vehicle Security / Remote Start / Remote Access System Installation

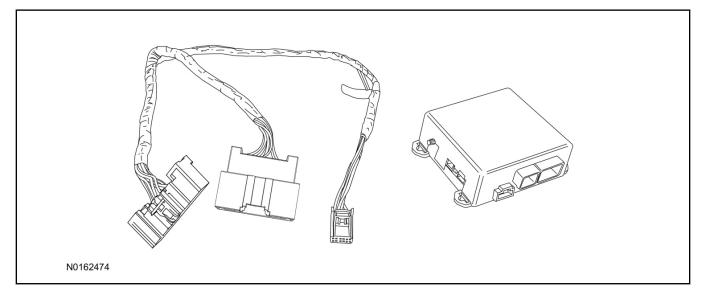
CONTENTS

INSTALLATION VSS Module Installation Security Indicator LED Mounting RMST Kit Antenna Installation RMU Module Installation GENERAL PROCEDURES Shock Sensor Sensitivity Adjustment RMU Activation

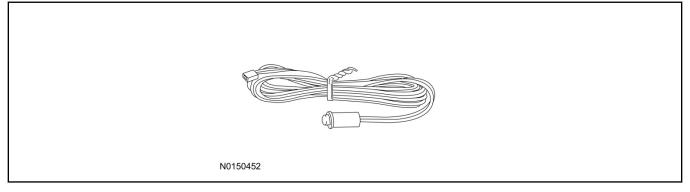
INSTALLATION

Vehicle Security / Remote Start / Remote Access - MKC

VSS System Components



Security Indicator LED (19D596) "Optional"



MKC

1. Verify correct kit number.

Review VSS Kit Contents

NOTE:

Kits are vehicle specific and are not interchangeable.

2. Review the VSS kit contents.

Vehicle Security System (VSS) Kit

QUANTITY	DESCRIPTION
1	VSS Module
1	T-harness

2015 MKC

Security Indicator LED Kit Contents "Optional"

6

1

3. Review the Security Indicator LED kit contents.

Vehicle Security System (VSS) Kit(Continued)

Security Indicator LED Kit

INSTALLATION (Continued)

QUANTITY	DESCRIPTION	
1	Security Indicator LED	

I. VSS System Installation

ACAUTION:

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" or "RMU" upgrade section(s).

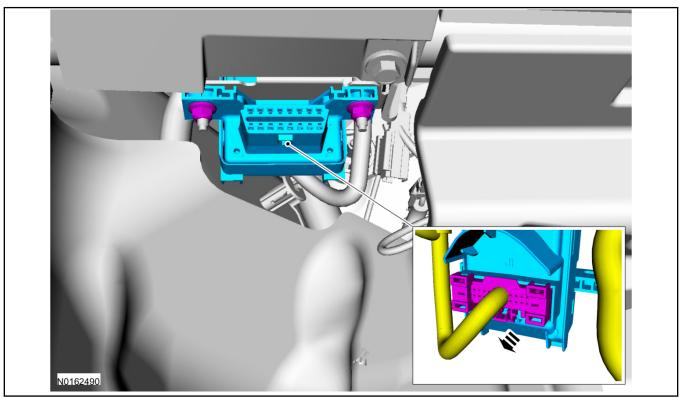
- 4. If the vehicle is equipped with factory remote start, test its operation by pressing the Lock button one time and the Remote Start button two times.
 - If the vehicle remote starts, stop the engine by pressing the Remote Start button one time.
 - If the vehicle does not remote start, diagnose the concern.
- 5. Disconnect the vehicle battery negative terminal. For additional information, refer to Workshop Manual (WSM) Section 414-01.
- Remove the LH lower Instrument Panel (IP) insulator. 6

2

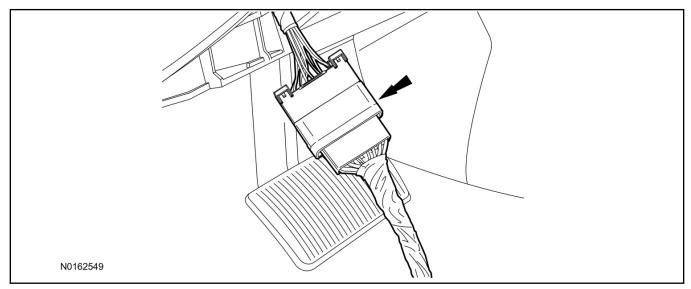
Tie-straps

Owner's Manual

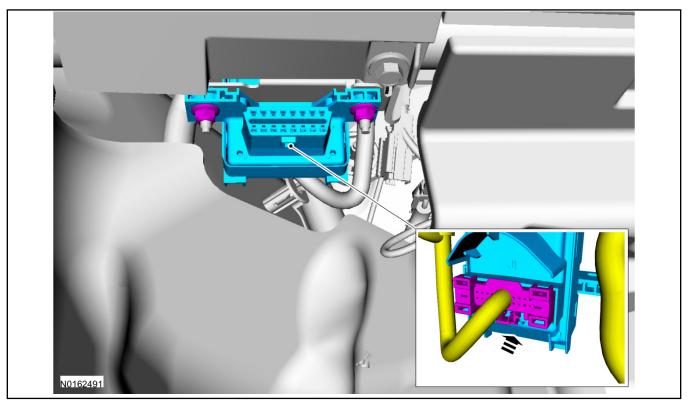
7. Disconnect the electrical connector from the back of the gateway module.



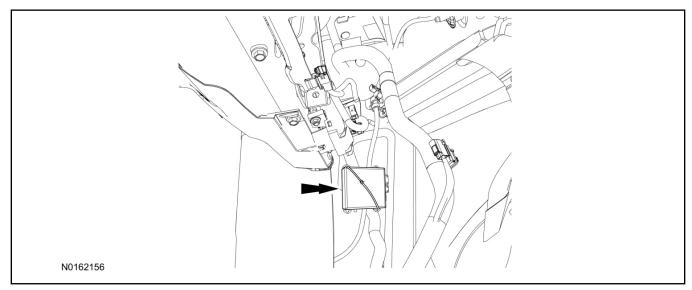
8. Connect the T-harness to the gateway module electrical connector.



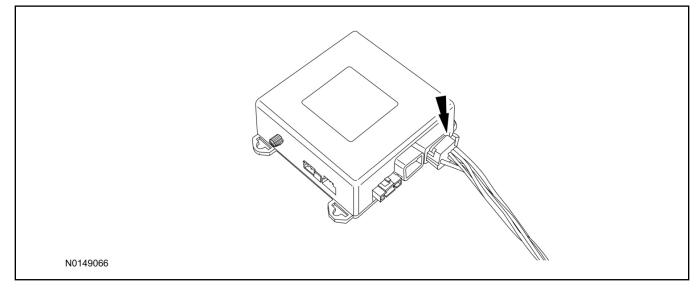
9. Connect T-harness to the back of the gateway module.



- 10. Position the T-harness inside the IP being careful to avoid sharp edges and moving parts.
 - Secure with zip-ties.
- 11. Position the VSS module on the driver side of the vehicle and secure it to the hood release cable and adjacent wire harness.
 - 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.



- 12. Connect the T-harness to the VSS module.
 - Secure the VSS harness with tie-straps.



13. Connect the vehicle battery negative terminal. For additional information, refer to WSM Section 414-01.

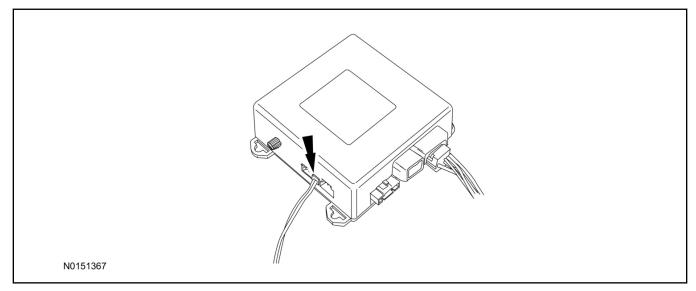
Optional Security Indicator LED Mounting

CAUTION:

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

- 14. 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.
- 15. 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.
- 16. Route the LED wire harness to the VSS module.

- 17. Connect the LED wire harness to the VSS module 2-pin white connector.
 - Secure the LED wire harness with tie-straps.

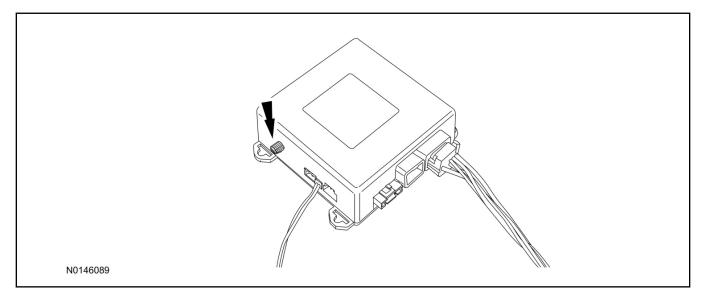


- 18. If the vehicle is equipped with factory remote start, test its operation by pressing the Lock button one time and the Remote Start button two times.
 - If the vehicle remote starts, stop the engine by pressing the Remote Start button one time.
 - If the vehicle does not remote start, disconnect the vehicle battery negative terminal, wait five minutes and then reconnect the battery negative terminal. For additional information, refer to Workshop Manual (WSM) Section 414-01.
 - Retest the factory remote start.
 - If the vehicle does not remote start, diagnose the concern.

Shock Sensor Sensitivity Adjustment

NOTE:

The VSS module is equipped with an internal dual zone Shock Sensor. The VSS system will activate a single horn honk/single light flash anytime a light to moderate impact is detected, and a "panic" type 30 second horn honk/light flash 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.



- 19. Starting with the adjustment knob in approximately the halfway position, lower the driver's window and exit the vehicle.
- 20. Press the LOCK button on the vehicle's RKE fob to arm the VSS system. The LED will light solid for 20 seconds and then begin to flash a steady on/off sequence to indicate the system is armed.
- 21. 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 honk and the lights will flash 1 time to indicate the warning impact was detected.
- 22. 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 honk and the lights will flash a steady on off sequence to indicate the heavy or full shock trigger was detected.
- 23. 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:

If installed, observe the LED while performing these tests.

- 24. 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.
- 25. 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.

26. 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.

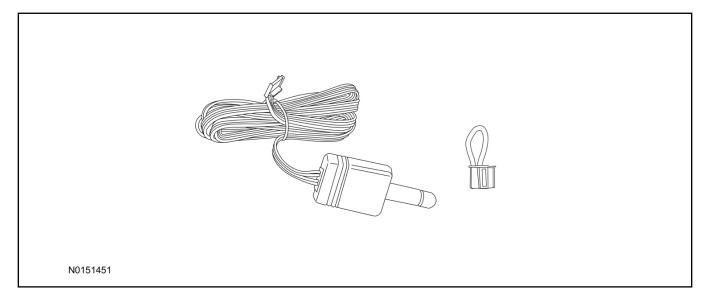
- For push button start vehicles, the Intelligent Access (IA) key must be away from the vehicle, otherwise the security system may disarm immediately upon trigger.
- 27. Test all other vehicle doors, the hood and the trunk in the same manner, by setting off the alarm and disarming with the keyfob.
- 28. If the VSS kit will not be upgraded to RMST/RMU functions at this time, install the LH lower IP insulator.

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

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

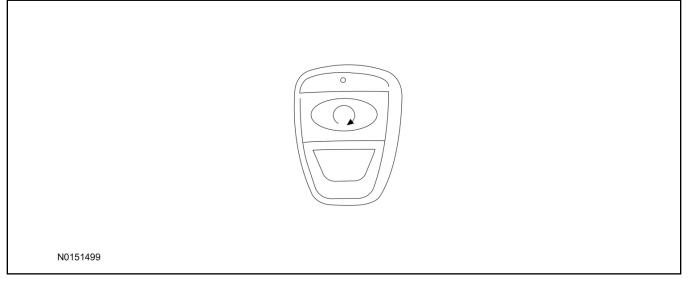
ACAUTION:

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



8

Standard Key Fob (15K601) "Sold Separately"



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



Optional RMST Upgrade Components "Sold Separately"

29. Review the RMST Upgrade components.

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

QUANTITY	DESCRIPTION
1	Bi-directional Antenna (15603)
1	Security Jumper (15603)

Standard Key Fob (15K601) "Sold Separately"

QUANTITY	DESCRIPTION	
1	Standard Key Fob (15K601)	

10

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

QUANTITY	DESCRIPTION
1	Bi-directional Key Fob (15K601)

RMST Kit Antenna Installation

- 30. If previously installed, remove the LH lower IP insulator.
- 31. Position the top portion of the LH kick panel aside to allow for removal of the IP side finish panel.
- 32. Remove the LH IP side finish panel.



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

34. NOTE:

Do not touch the adhesive, reduced adhesion may result.

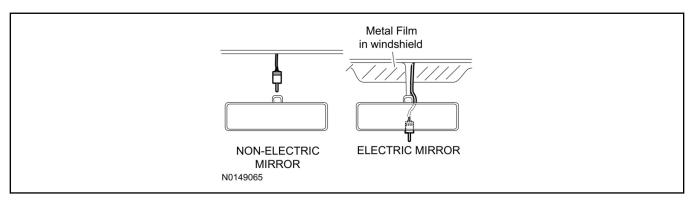
NOTE:

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.

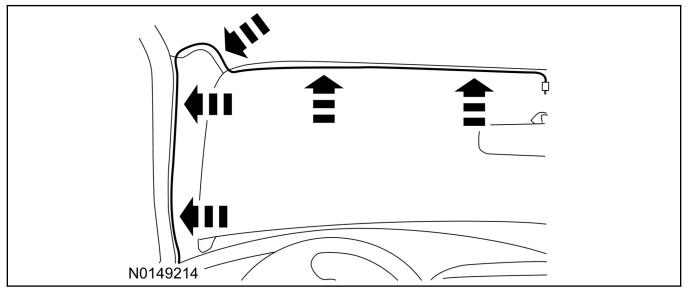


35. If necessary, position the A-pillar trim slightly outward to provide access to route the antenna wire.

NOTE:

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

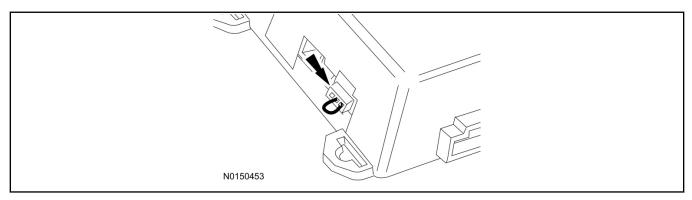
- 36. Route the antenna cable along the headliner and down the A-pillar towards the floor. Continue routing the wire into the IP towards the VSS module.
 - Secure with tie-straps.



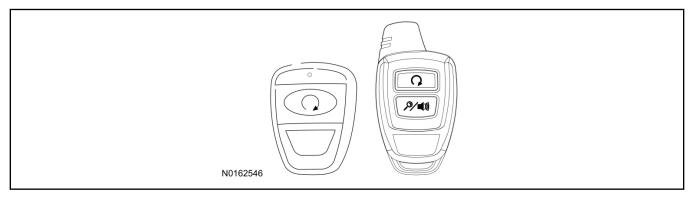
- 37. Connect the antenna connector to the VSS module.
- 38. Reposition the A-pillar trim panel back, if necessary.
- 39. Install the LH IP side finish panel. Position the weatherstrip and LH kick panel back.

VSS Module - Optional Vehicle Security Features

- 40. Enable/Disable Vehicle Security Features: Locate the security jumper supplied in the kit.
 - Install the jumper to the VSS module if the vehicle security features are to be disabled.
 - Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



Programming Key Fobs



41. **NOTE:**

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

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.
- 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 four times, ending in ignition on, engine off.
- 6 Press the vehicle start/stop button twice to turn ignition on.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 7 Press the start stop button on each fob you wish to program.
- 8 Cycle ignition to the OFF position to exit transmitter learn mode.
- **9 NOTE:**

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

42. If the RMST kit will not be upgraded to RMU functions at this time, install the LH lower IP insulator.

RMST Functional Test

NOTE:

Do not put a key in the ignition for the following steps.

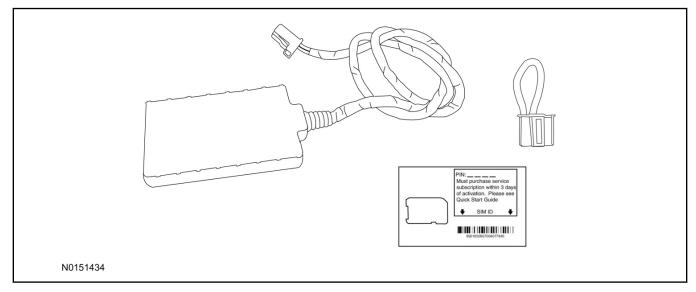
- 43. Make sure the shift lever is in PARK and the ignition is in the OFF position. Remove all keys from the vehicle.
- 44. Close the hood.
- 45. Close all of the vehicle doors.
- 46. Start the vehicle by pressing the remote start button twice on the remote start key fob.
- 47. Confirm the remote start works with the vehicle in park and with the hood and doors closed.
- 48. Open the hood.
- 49. NOTE:

Vehicle doors should be closed while performing this step.

Confirm that the vehicle will not 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.

III. Remote Access (RMU) Upgrade "Sold Separately"



51. Review the RMU upgrade components.

Optional Components — Remote Access (RMU) Upgrade "Sold Separately"

QUANTITY	DESCRIPTION
1	Remote Messaging Unit (RMU)
1	SIM Card Carrier

Optional Components — Remote Access (RMU) Upgrade "Sold	Separately"(Continued)
1	Security Jumper

52. If previously installed, remove the LH lower IP insulator.

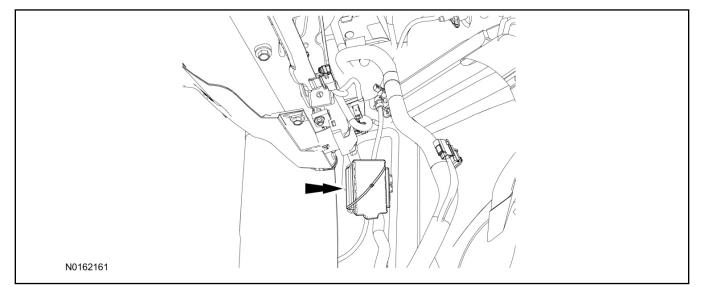
[▲]CAUTION:

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

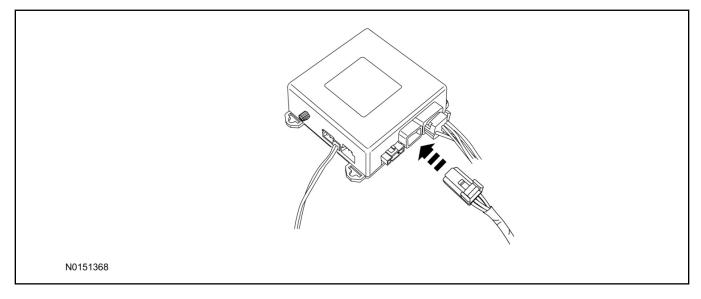
NOTE:

For proper range of operation, the RMU must be installed as shown in the diagram below.

53. Using tie-straps, secure the RMU to the previously installed VSS module.



- 54. Connect the RMU electrical connector to the VSS module.
 - Secure the harness with tie-straps.

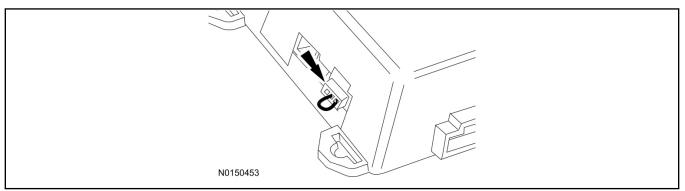


VSS Module - Optional Vehicle Security Features

55. Enable/Disable Vehicle Security Features:

Locate the security jumper supplied in the kit.

- Install the jumper to the VSS module if the vehicle security features are to be **disabled**.
- Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



56. Install the LH lower IP insulator.

RMU Activation

NOTE:

Please note that the Remote Access application that is used to start the vehicle for this RMST kit will only work with iPhone and Android phones.

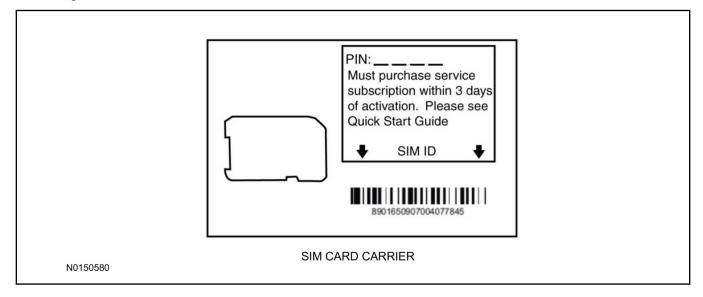
- 57. For RMU activation the following information from the customer is recommended to provide them with electronic notification for app retrieval:
 - 1 Email Address
 - 2 Cell Phone Number
 - 3 Cell Phone Carrier Company
- 58. Log on to your Professional Technician Society (PTS) account and enter the vehicle information.
 - 1 Select "Vehicle Id".
 - 2 Select "By Year & Model"
 - 3 Choose the year & model of the vehicle and then select "GO".
 - 4 Hover over the "Workshop" tab.
 - 5 Select the "Accessory Installation" menu item.
 - 6 Under the "Electrical" heading, select the "Remote Access Activation" link (first time users will need to agree to terms & conditions).
 - 7 Select the "Install or Diagnose" link.

NOTE:

If you are not directed to the screen shown below (or user agreement screen for first time users), make sure your internet browser zone settings are set to medium. This setting can be found in your browsers "internet options" under the "privacy" tab.

HOME DEALER TOOLS
DEALER TOOLS
Install or Push Diagnose Mobile App
DOCUMENTATION & MANUALS • No documentation available
Get Market

59. Once on the "Install" page, enter the SIM ID code that was provided with the RMST kit. Select "Begin or Continue Installation".



60. Click on the "On screen steps 1-6", and follow the on screen instructions to complete the installation.



NOTE:

The following step will complete the activation process, when you are directed to a screen similar to the one below ensure the correct vehicle brand is selected and that all applicable features are enabled.

NOTE:

The "perimeter" and "shock" settings below are optional features and should only be selected when security features are enabled.

Installation Details			
Brand	Ford		
Security Features	2 Requery		
▼ Start			
🗹 Stop			
🗹 Lock			
Unlock			
🔽 Car Finder			
Perimeter			
Shock			
Neturn			► Continue
N0150305			

19

INSTALLATION (Continued)

- 61. Perform a functional check of the system by testing each of the available features.
 - Start/Stop function
 - Lock/Unlock function
 - Car finder
 - Signal (for troubleshooting only)

Installation Test			
Session Status	*	Yes	
Network Connectio	n 🖌	Yes	
IP Assigned	+	10.64.17.233	
Comm Established		Yes	
Received IMEI		358901041730422	
Received ESN		1663000117	
		ted successfully. If you would like to test the physical functions of the module, you can do so	below.
- otart	top		
👌 Return			Continue

NOTE:

All tests above must be completed in order to move to the next step. If any of the listed functions fail, move the vehicle to an outside location and retest.

- 62. Once the hardware installation and RMU activation process is complete, record the 4-digit PIN on the SIM card carrier. Provide the SIM card carrier to the customer so they can add this system to their Remote Access Account. Customer must have both the 4-digit PIN and SIM ID to activate/add their vehicle to their Remote Access Account.
- 63. If the customer agrees, you may push the mobile application to the customer. You will need the customer's phone number and cellular carrier. If the customer opts to install the application themselves, they can locate it in their mobile app store.

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

Vehicle Security / Remote Start / Remote Access System Installation

CONTENTS

VEHICLE PREPARATION

Hood Switch Installation

INSTALLATION

VSS Module Installation Security Indicator LED Mounting TPM Antenna Kit Installation RMST Kit Antenna Installation RMU Module Installation

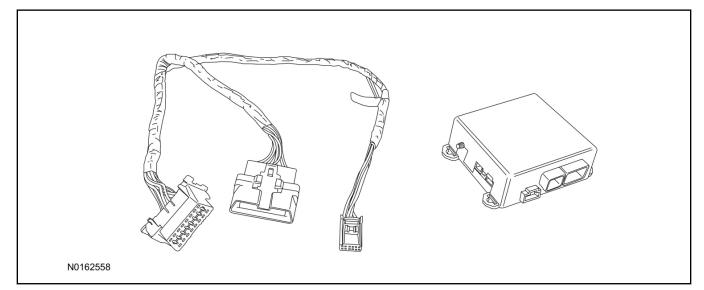
GENERAL PROCEDURES

Learn VSS to vehicle Shock Sensor Sensitivity Adjustment Standard Remote Start Activation RMU Remote Start Activation RMU Activation

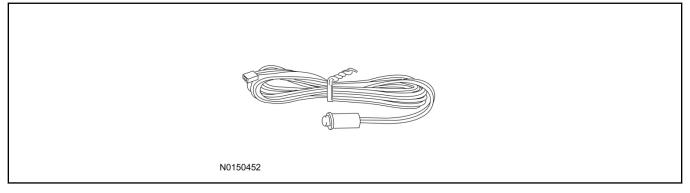
INSTALLATION

Vehicle Security / Remote Start / Remote Access - Edge/MKX

VSS System Components



Security Indicator LED (19D596) "Optional"



Edge/MKX

1. Verify correct kit number.

Review VSS Kit Contents

NOTE:

Kits are vehicle specific and are not interchangeable.

2. Review the VSS kit contents.

Vehicle Security System (VSS) Kit

QUANTITY	DESCRIPTION
1	VSS Module
1	T-harness

Vehicle Security System (VSS) Kit(Continued)

6	Tie-straps
1	Owner's Manual

Security Indicator LED Kit Contents "Optional"

3. Review the Security Indicator LED kit contents.

Security Indicator LED Kit

QUANTITY	DESCRIPTION
1	Security Indicator LED

I. VSS System Installation

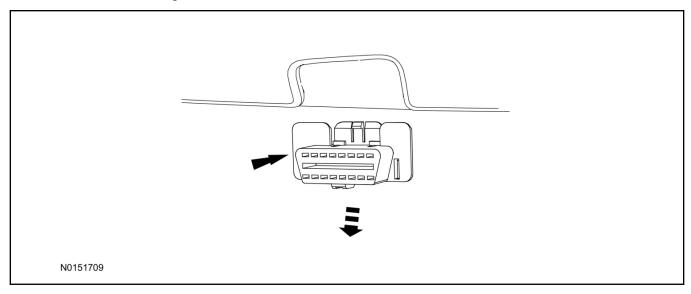
ACAUTION:

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

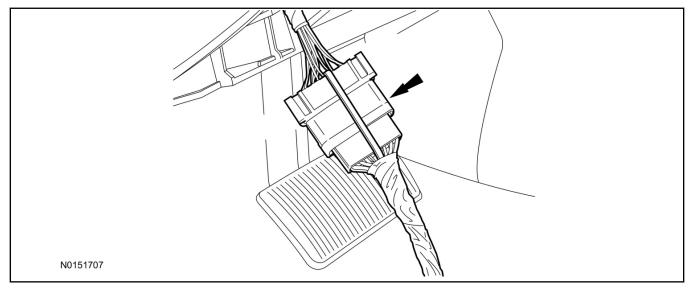
NOTE:

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

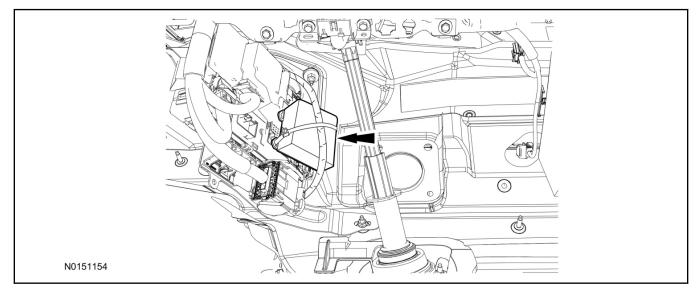
4. Remove the OBD II port from the IP frame.



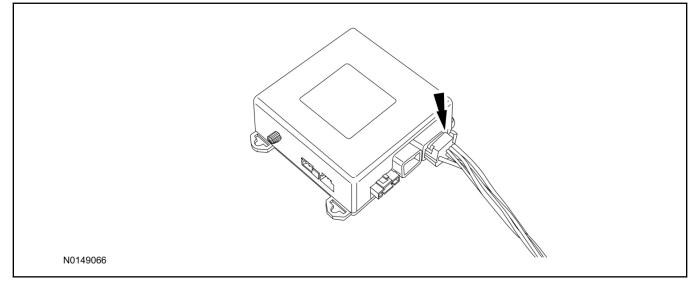
- 5. Connect the VSS T-harness to the OBD II port.
 - Secure the T-harness to the OBD II port using a tie-strap.



- 6. Position the VSS harness inside the IP being careful to avoid sharp edges and moving parts.
- 7. Install the new VSS harness OBD II port to the IP frame.
- 8. Position the VSS module on top of the Body Control Module (BCM) and secure to wire harness with tie-straps.
 - 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.



- 9. Connect the VSS harness to the VSS module.
 - Secure the VSS harness with tie-straps.



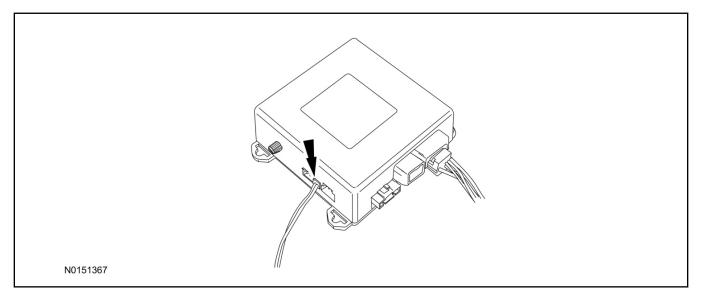
Optional Security Indicator LED Mounting

[▲]CAUTION:

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

- 10. 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.
- 11. 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.
- 12. Route the LED wire harness to the VSS module.
- 13. Connect the LED wire harness to the VSS module 2-pin white connector.
 - Secure the LED wire harness with tie-straps.

2011-2014 Edge/MKX INSTALLATION (Continued)



Learn VSS to Vehicle (Push Button Start Vehicles Only)

14. Cycle door locks at trim switch four times to learn remote start keyless functions.

Learn VSS to Vehicle (Key Start Vehicles Only)

NOTE:

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

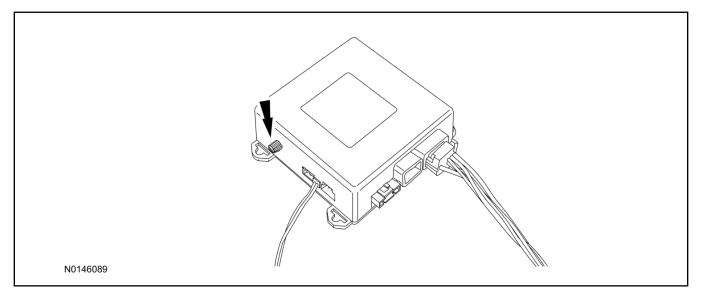
- 15. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 16. Put the key in the ignition.
- 17. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 18. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 19. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

Shock Sensor Sensitivity Adjustment

NOTE:

The VSS module is equipped with an internal dual zone Shock Sensor. The VSS system will activate a single horn honk/single light flash anytime a light to moderate impact is detected, and a "panic" type 30 second horn honk/light flash 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.

2011-2014 Edge/MKX INSTALLATION (Continued)



- 20. Starting with the adjustment knob in approximately the halfway position, lower the driver's window and exit the vehicle.
- 21. Press the LOCK button on the vehicle's RKE fob to arm the VSS system. The LED will light solid for 20 seconds and then begin to flash a steady on/off sequence to indicate the system is armed.
- 22. 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 honk and the lights will flash 1 time to indicate the warning impact was detected.
- 23. 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 honk and the lights will flash a steady on off sequence to indicate the heavy or full shock trigger was detected.
- 24. 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:

If installed, observe the LED while performing these tests.

- 25. 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.
- 26. 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.

- 27. 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.
- 28. Test all other vehicle doors, the hood and the trunk in the same manner, by setting off the alarm and disarming with the keyfob.

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

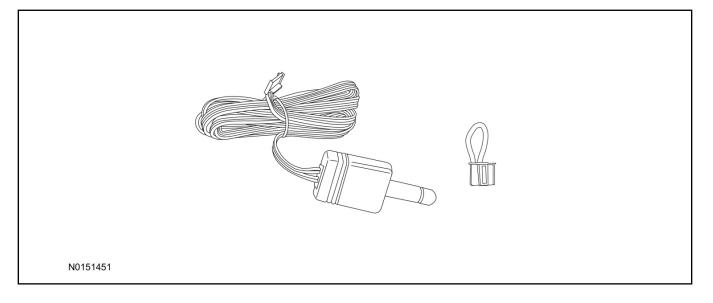
II. Remote Start (RMST) Upgrade - Antenna Kit "Sold Separately"

ACAUTION:

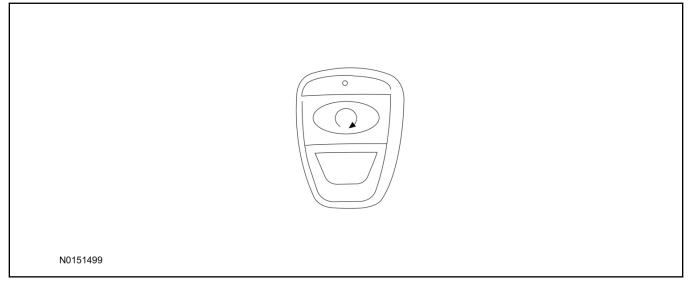
Carefully route and secure module and harnesses so that they do not interfere with moving parts or linkages.

NOTE:

Verify that the vehicle has a hood switch Installed. If the vehicle is not equipped with a hood switch refer to "**Hood Switch Kit - Sold Separately**".



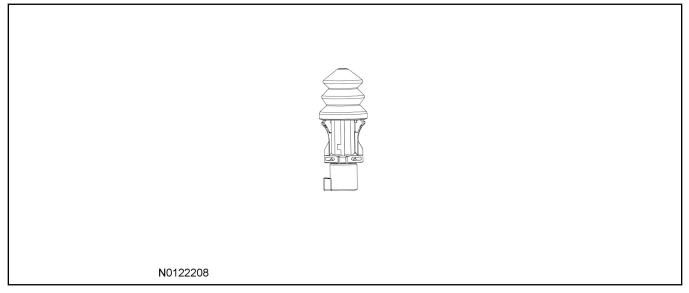
Standard Key Fob (15K601) "Sold Separately"



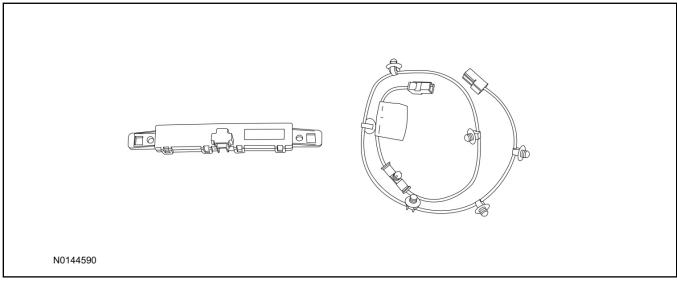
Bi-directional Key Fob (15K601) "Sold Separately"



Hood Switch Kit Components "Sold Separately"



TPM Antenna Kit Components "Sold Separately"



Optional RMST Upgrade Components "Sold Separately"

30. Review the RMST Upgrade components.

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

QUANTITY	DESCRIPTION
1	Bi-directional Antenna (TBD)
1	Security Jumper (TBD)

Standard Key Fob (15K601) "Sold Separately"

QUANTITY	DESCRIPTION
1	Standard Key Fob (15K601)

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

QUANTITY	DESCRIPTION
1	Bi-directional Key Fob (15K601)

Review Hood Switch Kit Contents "Sold Separately"

31. Review the Hood Switch kit contents.

Hood Switch Kit

QUANTITY	DESCRIPTION
1	Hood Switch Assembly

TPM Antenna Kit Components "Sold Separately"

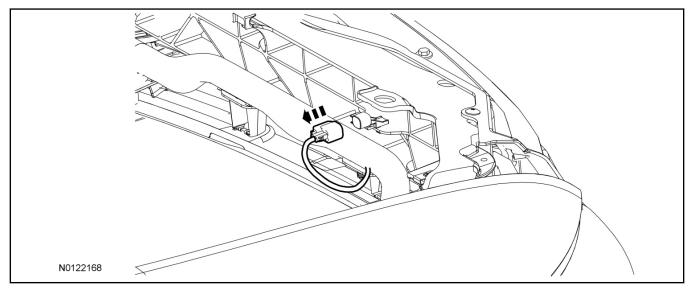
32. Review the TPM antenna kit contents.

TPM Antenna Kit

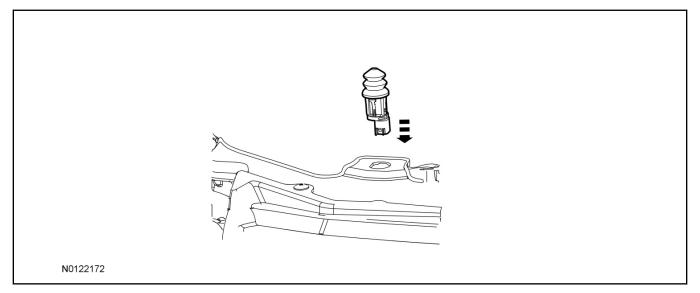
QUANTITY	DESCRIPTION
1	Antenna Module
1	Antenna Jumper Wire
1	2-sided Tape (not shown)

Hood Switch Installation

33. Disconnect the existing hood switch electrical connector from the insulator cap, located on the RH side of the radiator core support.



- 34. Install the OE hood switch assembly to the existing hood switch mounting location, on the upper radiator core support as shown.
 - Position the flat spot on the hood switch with the flat spot on the radiator core support.



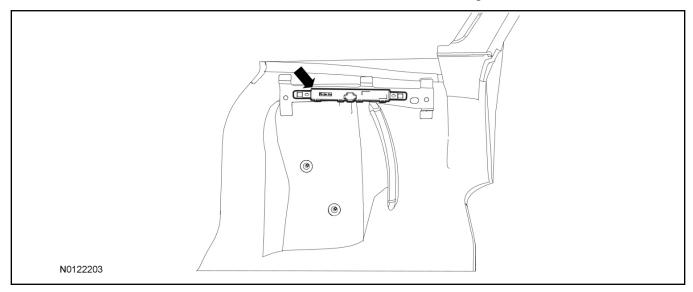
35. Connect the electrical connector to the hood switch.

TPM Antenna Kit Installation

NOTE:

The TPM Antenna Kit is only required if the vehicle is not equipped with Factory remote start.

- 36. Remove the rear LH quarter trim panel. For additional information, refer to Workshop Manual (WSM) Section 501-05.
- 37. Position the antenna module into the vehicle and secure with tie straps.



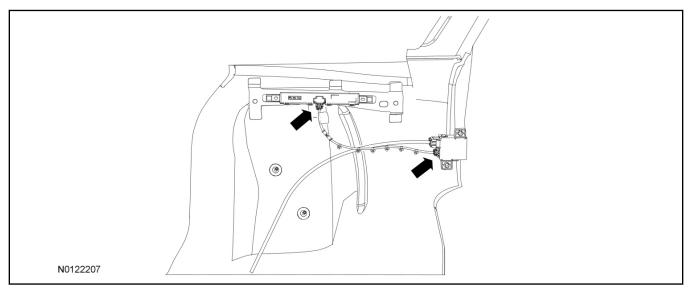
38. NOTE:

LH quarter trim panel removed for clarity.

Install the antenna jumper wire to the vehicle.

- Connect to the antenna module and to the TPM module.
- Secure with tie straps. ٠

• The push pins on the antenna jumper wire are not used for this application.



39. Install the rear LH quarter trim panel. For additional information, refer to WSM Section 501-05.

RMST Kit Antenna Installation

- 40. Remove the LH IP side trim panel.
- 41. Clean the antenna mounting surface using an alcohol base solution and a clean cloth.

42. NOTE:

Do not touch the adhesive, reduced adhesion may result.

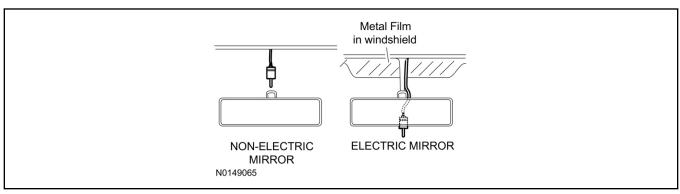
NOTE:

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.



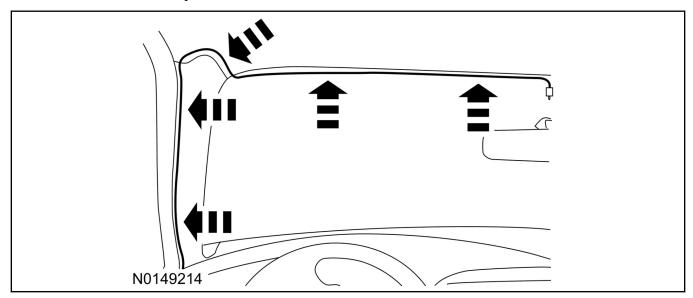
2011-2014 Edge/MKX INSTALLATION (Continued)

13

NOTE:

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

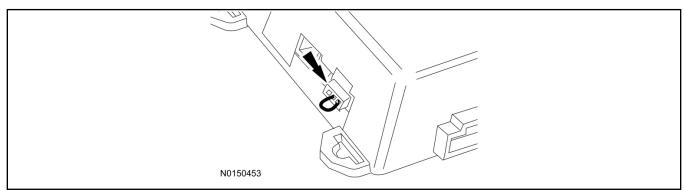
- 43. Route the antenna cable along the headliner and down the LH A-pillar towards the floor. Continue routing the wire into the IP towards the VSS module.
 - Secure with tie-straps.



- 44. Connect the antenna connector to the VSS module.
- 45. Install the LH IP side trim panel.

VSS Module - Optional Vehicle Security Features

- 46. Enable/Disable Vehicle Security Features: Locate the security jumper supplied in the kit.
 - Install the jumper to the VSS module if the vehicle security features are to be disabled.
 - Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



RMST Activation - Key Start Only

NOTE:

For vehicles equipped with push button start, proceed to Step 59 within the "Programming Key Fobs" section of this manual.

- 47. Verify that the IDS is updated to the most current version.
- 48. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.
- 49. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Body.
 - Select Security.
 - Select Remote Start.
 - Verify that the information on the IDS screen is correct and all procedures have been followed.
 - Select Yes. This will enable the remote start function on the vehicle.
- 50. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.
- 51. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Learn Remote Start to Vehicle (Push Button Start Vehicles Only)

52. Cycle door locks at trim switch four times to learn remote start keyless functions.

Learn Remote Start to Vehicle (Key Start Vehicles Only)

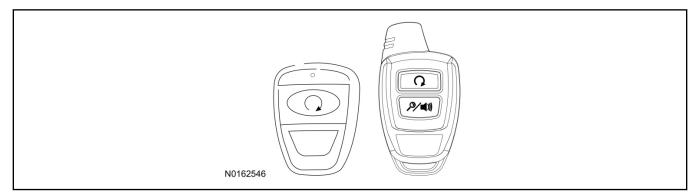
NOTE:

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

- 53. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 54. Put the key in the ignition.

- 55. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 56. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 57. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

Programming Key Fobs



58. Key Start Vehicles:

NOTE:

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

- 1 Start with doors unlocked
- 2 Driver's door open (remaining open throughout)
- 3 Verify that the gearshift lever is in the "PARK" position.
- 4 Depress and hold brake pedal.
- 5 Start with ignition key OFF.
- 6 Cycle ignition key to the ON then OFF position 5 times, then back to the ON position a 6th time.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 7 Press the START button on each transmitter you wish to program. The horn will honk 1 time each time the START button is pressed to indicated the transmitter has been learned.
- 8 Cycle ignition key to the OFF position to exit transmitter learn mode.
- **9 NOTE:**

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

59. Push Button Start Vehicles:

NOTE:

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

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.
- 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 four times, ending in ignition on, engine off.
- 6 Release the brake pedal.
- 7 Press the vehicle start/stop button twice to turn ignition on.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 8 Press the start stop button on each fob you wish to program.
- 9 Cycle ignition to the OFF position to exit transmitter learn mode.

10 **NOTE:**

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

RMST Functional Test

NOTE:

Do not put a key in the ignition for the following steps.

- 60. Make sure the shift lever is in PARK and the ignition is in the OFF position. Remove all keys from the vehicle.
- 61. Close the hood.
- 62. Close all of the vehicle doors.
- 63. Start the vehicle by pressing the remote start button twice on the remote start key fob.
- 64. Confirm the remote start works with the vehicle in park and with the hood and doors closed.
- 65. Open the hood.

66. NOTE:

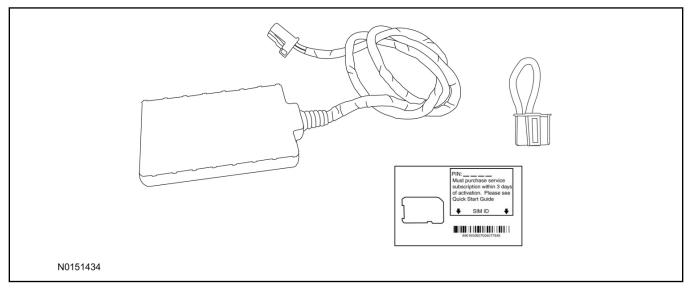
Vehicle doors should be closed while performing this step.

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

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

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

III. Remote Access (RMU) Upgrade "Sold Separately"



68. Review the RMU upgrade components.

Optional Components — Remote Access (RMU) Upgrade "Sold Separately"

QUANTITY	DESCRIPTION
1	Remote Messaging Unit (RMU)
1	SIM Card Carrier
1	Security Jumper

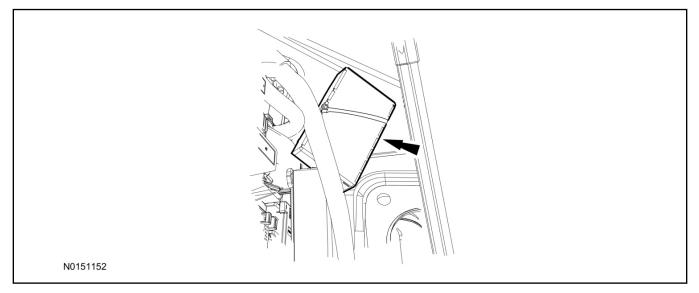
▲ CAUTION:

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

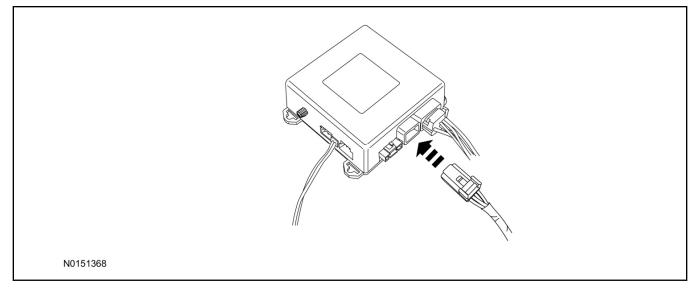
NOTE:

For proper range of operation, the RMU must be installed as shown in the diagram below.

69. Using tie-straps secure the RMU to the harness above the previously installed VSS module.

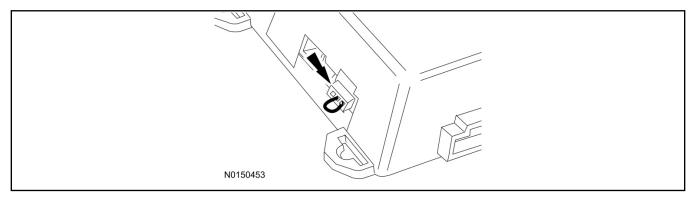


- 70. Connect the RMU electrical connector to the VSS module.
 - Secure the harness with tie-straps.



VSS Module - Optional Vehicle Security Features

- 71. Enable/Disable Vehicle Security Features: Locate the security jumper supplied in the kit.
 - Install the jumper to the VSS module if the vehicle security features are to be **disabled**.
 - Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



- 72. Verify that the IDS is updated to the most current version.
- 73. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.
- 74. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Body.
 - Select Security.
 - Select Remote Start.
 - Verify that the information on the IDS screen is correct and all procedures have been followed.
 - Select Yes. This will enable the remote start function on the vehicle.
- 75. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.
- 76. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Learn Remote Start to Vehicle (Push Button Start Vehicles Only)

77. Cycle door locks at trim switch four times to learn remote start keyless functions.

Learn Remote Start to Vehicle (Key Start Vehicles Only)

NOTE:

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

- 78. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 79. Put the key in the ignition.
- 80. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 81. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 82. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

RMU Activation

NOTE:

Please note that the Remote Access application that is used to start the vehicle for this RMST kit will only work with iPhone and Android phones.

- 83. For RMU activation the following information from the customer is recommended to provide them with electronic notification for app retrieval:
 - 1 Email Address
 - 2 Cell Phone Number
 - 3 Cell Phone Carrier Company
- 84. Log on to your Professional Technician Society (PTS) account and enter the vehicle information.
 - 1 Select "Vehicle Id".
 - 2 Select "By Year & Model"
 - 3 Choose the year & model of the vehicle and then select "GO".
 - 4 Hover over the "Workshop" tab.
 - 5 Select the "Accessory Installation" menu item.
 - 6 Under the "Electrical" heading, select the "Remote Access Activation" link (first time users will need to agree to terms & conditions).
 - 7 Select the "Install or Diagnose" link.

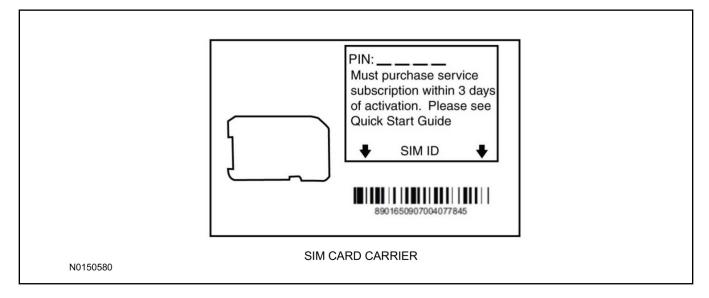
2011-2014 Edge/MKX INSTALLATION (Continued)

NOTE:

If you are not directed to the screen shown below (or user agreement screen for first time users), make sure your internet browser zone settings are set to medium. This setting can be found in your browsers "internet options" under the "privacy" tab.

- HUCK- CONT	
HOME DEALER TOOLS	LOG OUT
DEALER TOOLS	
Install or Diagnose Mobile App	
DOCUMENTATION & MANUALS No documentation available	
N0150870	ina lian

85. Once on the "Install" page, enter the SIM ID code that was provided with the RMST kit. Select "Begin or Continue Installation".



86. Click on the "On screen steps 1-6", and follow the on screen instructions to complete the installation.



2011-2014 Edge/MKX INSTALLATION (Continued)

NOTE:

The following step will complete the activation process, when you are directed to a screen similar to the one below ensure the correct vehicle brand is selected and that all applicable features are enabled.

NOTE:

The "perimeter" and "shock" settings below are optional features and should only be selected when security features are enabled.

Installation Details			
Brand	Ford v		
Security Features	2 Requery		
▼ Start			
🗹 Stop			
🔽 Lock			
🗹 Unlock			
🔽 Car Finder			
✓ Perimeter			
Shock			
Neturn			Continue
N0150305			

2011-2014 Edge/MKX

INSTALLATION (Continued)

- 87. Perform a functional check of the system by testing each of the available features.
 - Start/Stop function
 - Lock/Unlock function
 - Car finder
 - Signal (for troubleshooting only)

Session Status	*	Yes							
Network Connection	*	Yes							
IP Assigned	+	10.64.17.233							
Comm Established	+	Yes							
Received IMEI	+	358901041730	0422						
Received ESN	*	1663000117							
Your install has bee						ions of the n	nodule, you c	an do so below.	
🙆 Start 🙆 St	ор	U Lock	Unlock	Car Finder	Signal				
Neturn									Continue

2011-2014 Edge/MKX INSTALLATION (Continued)

NOTE:

All tests above must be completed in order to move to the next step. If any of the listed functions fail, move the vehicle to an outside location and retest.

Key Start Vehicles Only

NOTE:

In the event start or stop fail, refer to the "Remote Start Activation" section in this manual.

NOTE:

In the event lock/unlock or car find fail, refer to the "Learn Remote Start System to Vehicle" section in this manual.

All Vehicles

- 88. Once the hardware installation and RMU activation process is complete, record the 4-digit PIN on the SIM card carrier. Provide the SIM card carrier to the customer so they can add this system to their Remote Access Account. Customer must have both the 4-digit PIN and SIM ID to activate/add their vehicle to their Remote Access Account.
- 89. If the customer agrees, you may push the mobile application to the customer. You will need the customer's phone number and cellular carrier. If the customer opts to install the application themselves, they can locate it in their mobile app store.

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

Vehicle Security / Remote Start / Remote Access System Installation

CONTENTS

INSTALLATION

VSS Module Installation Security Indicator LED Mounting RMST Kit Antenna Installation RMU Module Installation

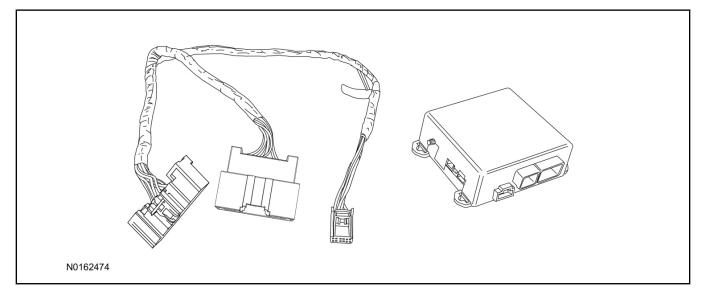
GENERAL PROCEDURES

Learn VSS to vehicle Shock Sensor Sensitivity Adjustment Standard Remote Start Activation RMU Remote Start Activation RMU Activation

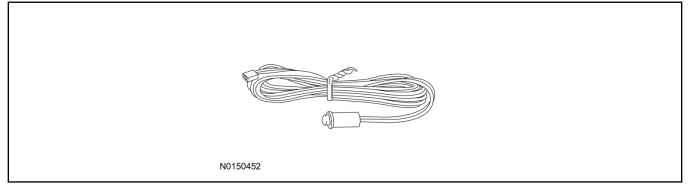
INSTALLATION

Vehicle Security / Remote Start / Remote Access - Edge

VSS System Components



Security Indicator LED (19D596) "Optional"



Edge

1. Verify correct kit number.

Review VSS Kit Contents

NOTE:

Kits are vehicle specific and are not interchangeable.

2. Review the VSS kit contents.

Vehicle Security System (VSS) Kit

QUANTITY	DESCRIPTION
1	VSS Module
1	T-harness

Vehicle Security System (VSS) Kit(Continued)

6	Tie-straps (not shown)
1	Owner's Manual (not shown)

Security Indicator LED Kit Contents "Optional"

3. Review the Security Indicator LED kit contents.

Security Indicator LED Kit

QUANTITY	DESCRIPTION
1	Security Indicator LED

I. VSS System Installation

ACAUTION:

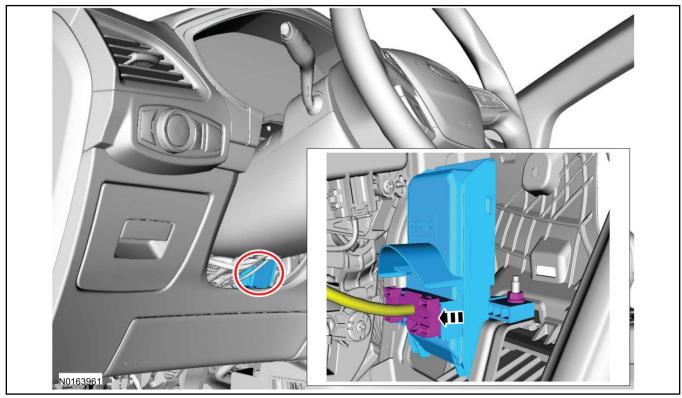
Carefully route and secure module and harnesses so that they do not interfere with moving parts or linkages.

NOTE:

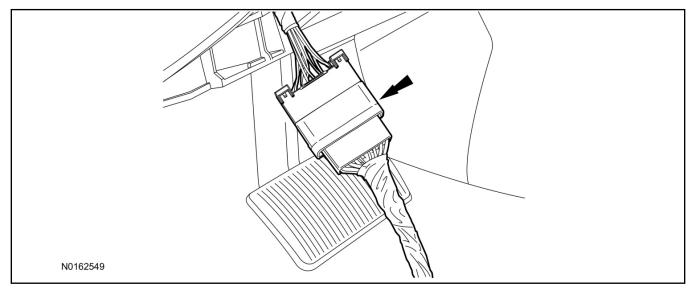
If the VSS kit was installed previously and the vehicle is being upgraded, proceed to the "RMST" or "RMU" upgrade section(s).

- 4. 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.
- 5. Disconnect the vehicle battery negative terminal. For additional information, refer to Workshop Manual (WSM) Section 414-01.

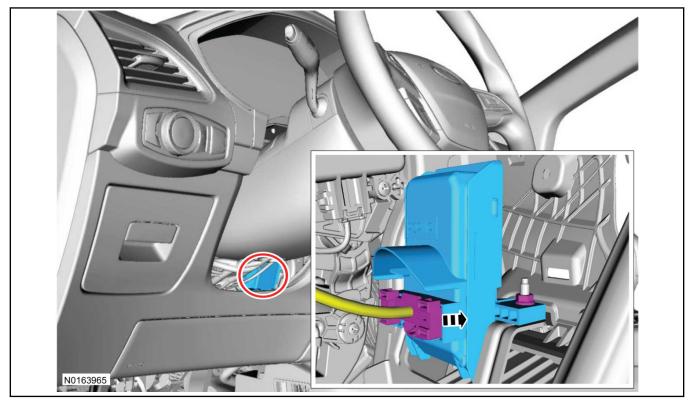
6. Disconnect the electrical connector from the back of the gateway module.



7. Connect the T-harness to the gateway module electrical connector.



8. Connect T-harness to the back of the gateway module.



9. \triangle CAUTION:

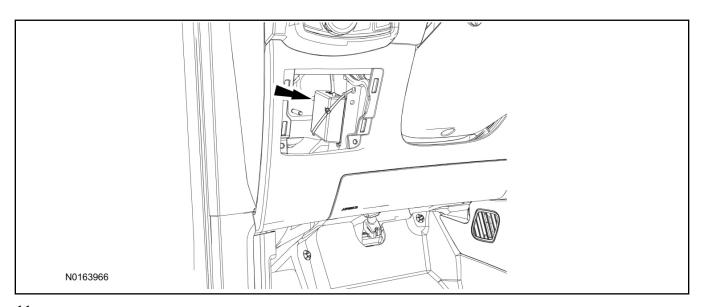
When securing the T-harness, make sure it is not contacting any moving parts such as the accelerator pedal, brake pedal, or steering wheel intermediate shaft.

Position the T-harness inside the IP being careful to avoid sharp edges and moving parts.

- Secure with zip-ties.
- 10. Using tie-straps, secure the VSS module to the IP frame located to the left of the steering wheel intermediate shaft.
 - 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.

Vehicle Security/Remote Start/Remote Access

2015 Edge INSTALLATION (Continued)

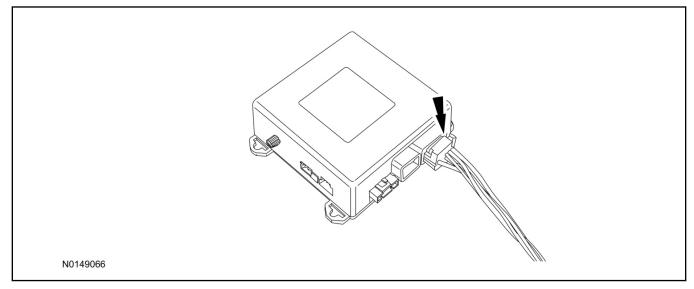


^{11.} \triangle CAUTION:

When routing the T-harness to the VSS module, make sure it is not contacting any moving parts such as the accelerator pedal, brake pedal, or steering wheel intermediate shaft.

Connect the T-harness to the VSS module.

• Secure the VSS harness with tie-straps.



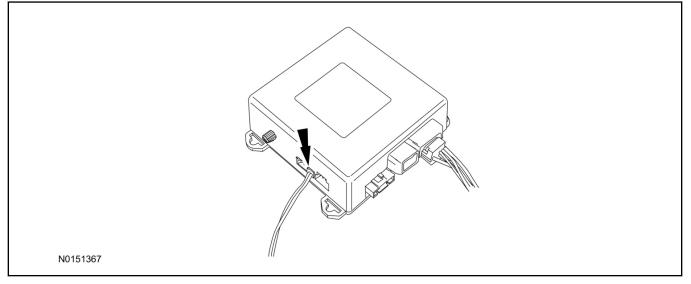
12. Connect the vehicle battery negative terminal. For additional information, refer to WSM Section 414-01.

Optional Security Indicator LED Mounting

ACAUTION:

Carefully route and secure LED harness so that it does not interfere with moving parts or linkages.

- 13. 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.
- 14. 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.
- 15. Route the LED wire harness to the VSS module.
- 16. Connect the LED wire harness to the VSS module 2-pin white connector.
 - Secure the LED wire harness with tie-straps.



Perimeter Alarm Activation - Vehicles Without Factory Installed Perimeter Alarm

- 17. Verify that the IDS is updated to the most current version.
- 18. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.

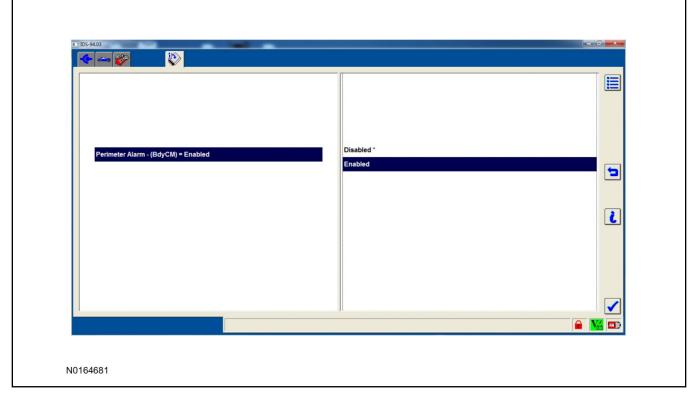
Γ

INSTALLATION (Continued)

- 19. Activate the perimeter alarm using the IDS.
 - Select the Tool Box icon.
 - Select Module Programming.
 - Select Programmable Parameters.
 - Select Security.

1DS-94.03		
Programmable Module Installation Module Reprogramming	b	
Programmable Parameters	Transmission	
As-Built	Passenger Seat Weight Sensor ReZero	
	Ride Height Calibration	
	IVD Initialization Sequence Warning Lamps / Chimes	
	Security	
	Remote Start	
	Tire Pressure Monitoring System	l
	Tire Size	

- 20. Verify that the instructions on the IDS screen have been completed and continue until you reach the screen below.
 - From this screen, select the "Enabled" text to the right of "Perimeter Alarm (BdyCM)".
 - Once "Enabled" has been selected, select the Tick button to direct IDS to enable the perimeter alarm option on the vehicle.



Learn VSS to Vehicle

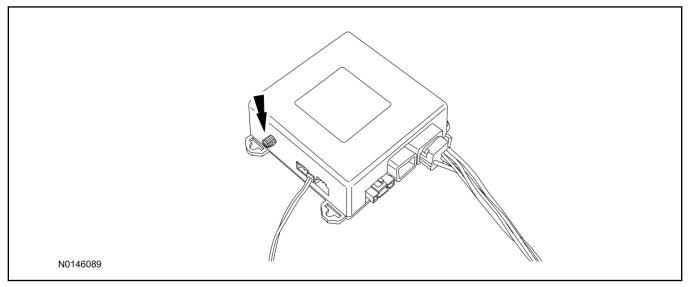
- 21. Cycle ignition OFF, ON, OFF one time to learn VSS to the vehicle.
- 22. Use IDS to clear continuous DTCs.
- 23. If the vehicle is equipped with factory remote start, test its operation by pressing the Lock button one time and the Remote Start button two times.
 - If the vehicle remote starts, stop the engine by pressing the Remote Start button one time.
 - If the vehicle does not remote start, disconnect the vehicle battery negative terminal, wait five minutes and then reconnect the battery negative terminal. For additional information, refer to Workshop Manual (WSM) Section 414-01.
 - Retest the factory remote start.
 - If the vehicle does not remote start, diagnose the concern.

indialeanon (continued)

Shock Sensor Sensitivity Adjustment

NOTE:

The VSS module is equipped with an internal dual zone Shock Sensor. The VSS system will activate a single horn honk/single light flash anytime a light to moderate impact is detected, and a "panic" type 30 second horn honk/light flash 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.



- 24. Starting with the adjustment knob in approximately the halfway position, lower the driver's window and exit the vehicle.
- 25. Press the LOCK button on the vehicle's RKE fob to arm the VSS system. The LED will light solid for 20 seconds and then begin to flash a steady on/off sequence to indicate the system is armed.
- 26. 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 honk and the lights will flash 1 time to indicate the warning impact was detected.
- 27. 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 honk and the lights will flash a steady on off sequence to indicate the heavy or full shock trigger was detected.
- 28. 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:

If installed, observe the LED while performing these tests.

NOTE:

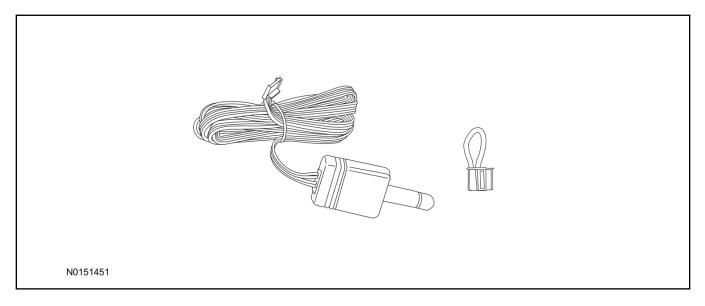
Cycle ignition OFF, ON, OFF before testing.

- 29. 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.
- 30. 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.
- 31. 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.
- 32. Test all other vehicle doors, the hood and the trunk in the same manner, by setting off the alarm and disarming with the keyfob.
- 33. Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.

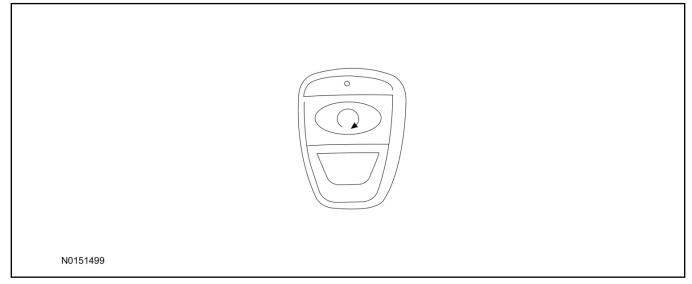
II. Remote Start (RMST) Upgrade - Antenna Kit "Sold Separately"

▲ CAUTION:

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



Standard Key Fob (15K601) "Sold Separately"



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



Optional RMST Upgrade Components "Sold Separately"

34. Review the RMST Upgrade components.

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

QUANTITY	DESCRIPTION
1	Bi-directional Antenna (15603)
1	Security Jumper (15603)

Standard Key Fob (15K601) "Sold Separately"

QUANTITY	DESCRIPTION
1	Standard Key Fob (15K601)

12

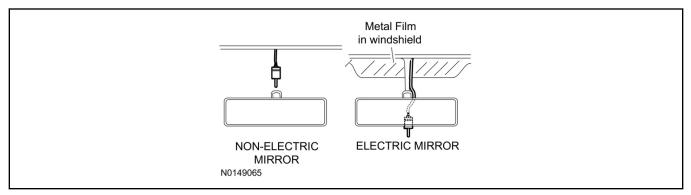
Bi-directional Key Fob (15K601) "Sold Separately"

QUANTITY	DESCRIPTION
1	Bi-directional Key Fob (15K601)

RMST Kit Antenna Installation

35. Remove the LH IP side finish panel.

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



37. **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.

38. If necessary, position the A-pillar trim slightly outward to provide access to route the antenna wire.

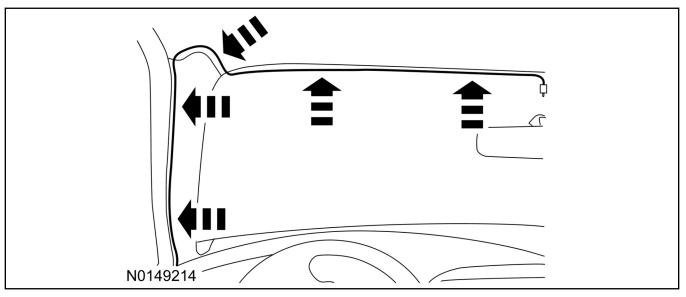
NOTE:

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

- 39. Route the antenna cable along the headliner and down the A-pillar towards the floor. Continue routing the wire into the IP towards the VSS module.
 - Secure with tie-straps.

Vehicle Security/Remote Start/Remote Access

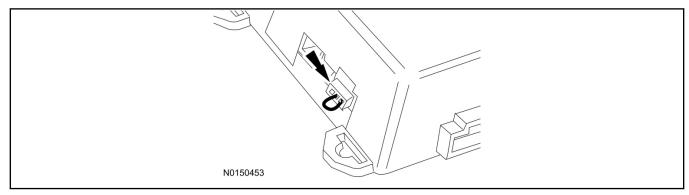
INSTALLATION (Continued)



- 40. Connect the antenna connector to the VSS module.
- 41. Reposition the A-pillar trim panel back, if necessary.
- 42. Install the LH IP side finish panel.

VSS Module - Optional Vehicle Security Features

- 43. Enable/Disable Vehicle Security Features: Locate the security jumper supplied in the kit.
 - Install the jumper to the VSS module if the vehicle security features are to be disabled.
 - Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



RMST Activation - Vehicles Without Factory Remote Start Only

NOTE:

For vehicles equipped with factory remote start, proceed to the "Programming Key Fobs" section of this manual.

- 44. Cycle ignition OFF, ON, OFF one time to learn RMST to the vehicle.
- 45. Verify that the IDS is updated to the most current version.
- 46. Connect IDS.

- Follow the prompts to select new vehicle session.
- Enter VIN.
- 47. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Module Programming.
 - Select Programmable Parameters.
 - Select Remote Start.

I IDS-G85V4.4.000		
Programmable Module Installation Module Reprogramming Programmable Parameters	Transmission Passenger Seat Weight Sensor ReZero <u>VD</u> Initialization Sequence Exterior Lighting Warning Lamps / Chimes Remote Start	
	Powertrain	L
		✓

- 48. Verify that the instructions on the IDS screen have been completed and continue until you reach the screen below.
 - From this screen, you must select the feature and then select the "Enabled" text (to the right) for these items:
 - Remote Start (BdyCM)
 - Climate Control (IC)
 - Remote Start (IC)
 - Select the feature and then select the "Enabled" text (to the right) for these items if the vehicle includes the optional feature:
 - Driver Seat (IC)
 - Passenger Seat (IC)
 - Rear Defrost (IC)

Steering Wheel Control - (IC)

NOTE:

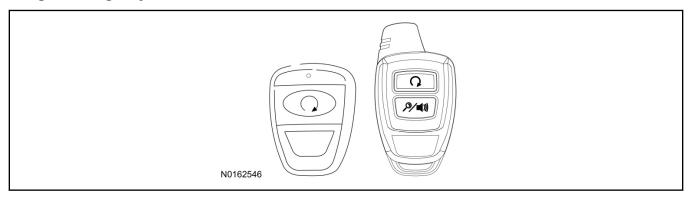
The Steering Wheel Control item refers to the heated steering wheel feature. The Driver Seat and Passenger Seat items refer to climate controlled seating.

• Once all appropriate items have been enabled, select the Tick button to direct IDS to enable the remote start option on the vehicle.

Remote Start - (BdyCM) = Disabled Climate Control - (IC) = Disabled Driver Seat - (IC) = Disabled	Disabled *	
Remote Start - (IC) = Disabled Passenger Seat - (IC) = Disabled Rear Defrost - (IC) = Disabled Steering wheel control - (IC) = Disabled	Enabled	5

- 49. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.
- 50. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Programming Key Fobs



51. **NOTE:**

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

NOTE:

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

- 1 Open door and press unlock.
- 2 Enter the vehicle with the vehicle key(s) and key fobs you wish to program.
- 3 Depress and hold brake pedal.
- 4 Press the start/stop button.
- 5 After the vehicle starts, press the start/stop button to shut down.
- 6 Repeat steps 3 and 4 an additional five times, ending in ignition ON, engine ON.
- 7 Release the brake pedal, the horn should honk 3 times.
- 8 Press the start stop/button on each fob you wish to program. The horn should honk each time the button is pressed to indicate the transmitter has been programmed.
- 9 Cycle ignition to the OFF position to exit transmitter learn mode.

10 NOTE:

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

RMST Functional Test

NOTE:

Do not put a key in the ignition for the following steps.

- 52. Make sure the shift lever is in PARK and the ignition is in the OFF position. Remove all keys from the vehicle.
- 53. Close the hood.
- 54. Close all of the vehicle doors.

- 55. Start the vehicle by pressing the remote start button twice on the remote start key fob.
- 56. Confirm the remote start works with the vehicle in park and with the hood and doors closed.
- 57. Open the hood.
- 58. Confirm the engine shuts off.
- 59. Check the instrument cluster after remote start has completed. If the "To Drive: Press Brake and Start Button" message continues to be displayed after an ignition cycle, check for Special Service Messages (SSM's) for the vehicle to resolve the issue.
- 60. **NOTE:**

Vehicle doors should be closed while performing this step.

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

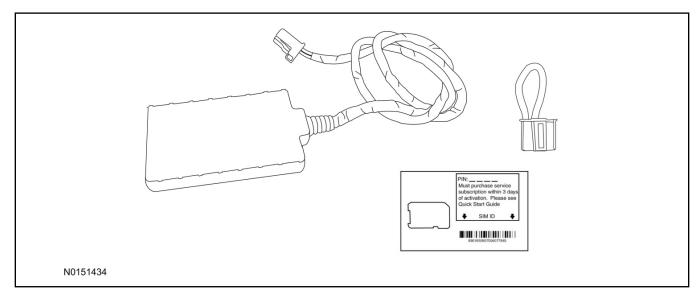
Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.

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

III. Remote Access (RMU) Upgrade "Sold Separately"

NOTE:

VSS must be learned to vehicle prior to installing remote access on key start equipped vehicles.



62. Review the RMU upgrade components.

Optional Components — Remote Access (RMU) Upgrade "Sold Separately"

QUANTITY	DESCRIPTION
1	Remote Messaging Unit (RMU)
1	SIM Card Carrier
1	Security Jumper
5	Tie Wraps (not shown)

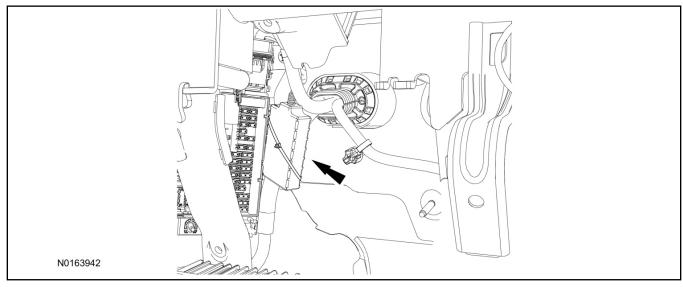
ACAUTION:

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

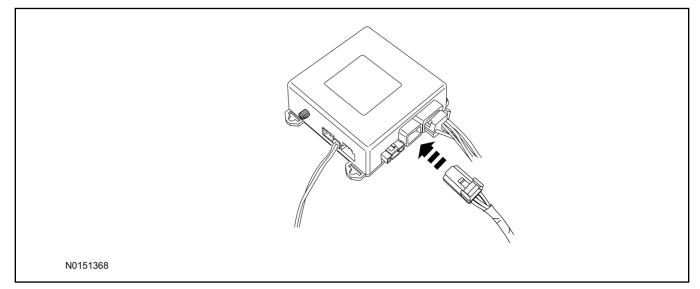
NOTE:

For proper range of operation, the RMU must be installed as shown in the diagram below.

63. Using a tie-strap, secure the RMU to the bulkhead wire harness located behind the Body Control Module (BCM).



- 64. Connect the RMU electrical connector to the VSS module.
 - Secure the harness with tie-straps.



Perimeter Alarm Activation - Vehicles Without Factory Installed Perimeter Alarm

- 65. Verify that the IDS is updated to the most current version.
- 66. Connect IDS.
 - Follow the prompts to select new vehicle session.

- Enter VIN.
- 67. Activate the perimeter alarm using the IDS.
 - Select the Tool Box icon.
 - Select Module Programming.
 - Select Programmable Parameters.
 - Select Security.

s IDS-94.03	»	
Programmable Module Installat	on ►	
Module Reprogramming		
Programmable Parameters	Transmission	
As-Built	Passenger Seat Weight Sensor ReZero	
	Ride Height Calibration	
	IVD Initialization Sequence Warning Lamps / Chimes	
	Security	
	Remote Start	
Tire Pressure Monitoring System		
	Tire Size	Ĺ
		`
		Vi 🖬

- 68. Verify that the instructions on the IDS screen have been completed and continue until you reach the screen below.
 - From this screen, select the "Enabled" text to the right of "Perimeter Alarm (BdyCM)".
 - Once "Enabled" has been selected, select the Tick button to direct IDS to enable the perimeter alarm option on the vehicle.

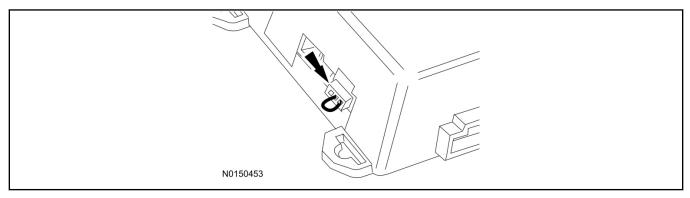
15 ID5-94.03		
Perimeter Alarm - (BdyCM) = Enabled	Disabled * Enabled	
		5

VSS Module - Optional Vehicle Security Features

69. Enable/Disable Vehicle Security Features:

Locate the security jumper supplied in the kit.

- Install the jumper to the VSS module if the vehicle security features are to be disabled.
- Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



Remote Start Activation - Vehicles Without Factory Remote Start Only

- 70. Cycle ignition OFF, ON, OFF one time to learn RMST to the vehicle.
- 71. Verify that the IDS is updated to the most current version.
- 72. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.
- 73. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Module Programming.
 - Select Programmable Parameters.
 - Select Remote Start.

Programmable Module Installat	tion 🕨	
Module Reprogramming	•	<u>15</u>
Programmable Parameters	Transmission	
As-Built	Passenger Seat Weight Sensor ReZero	
	IVD Initialization Sequence	
	Exterior Lighting	
	Warning Lamps / Chimes	
	Remote Start	
	Powertrain	
		l l l l l l l l l l l l l l l l l l l

- 74. Verify that the instructions on the IDS screen have been completed and continue until you reach the screen below.
 - From this screen, you must select the feature and then select the "Enabled" text (to the right) for these items:
 - Remote Start (BdyCM)
 - Climate Control (IC)
 - Remote Start (IC)

- Select the feature and then select the "Enabled" text (to the right) for these items if the vehicle includes the optional feature:
 - Driver Seat (IC)
 - Passenger Seat (IC)
 - Rear Defrost (IC)
 - Steering Wheel Control (IC)

NOTE:

The Steering Wheel Control item refers to the heated steering wheel feature. The Driver Seat and Passenger Seat items refer to climate controlled seating.

• Once all appropriate items have been enabled, select the Tick button to direct IDS to enable the remote start option on the vehicle.

I ID5-G85¥44.000 Image: ID5-G85¥44.000 Image: ID5-G85¥4.000 Image: ID5-G85¥4.0000 Image: ID5-G85¥4.0000		_ ø _ × _
Remote Start - (BdyCM) = Disabled Climate Control - (IC) = Disabled Driver Seat - (IC) = Disabled Remote Start - (IC) = Disabled Passenger Seat - (IC) = Disabled Rear Defrost - (IC) = Disabled	Disabled * Enabled	
Rear Detrost - (IC) = Disabled Steering wheel control - (IC) = Disabled		٤

- 75. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.

22

- 76. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

RMU Activation

NOTE:

Please note that the Remote Access application that is used to start the vehicle for this RMST kit will only work with iPhone and Android phones.

- 77. For RMU activation the following information from the customer is recommended to provide them with electronic notification for app retrieval:
 - 1 Email Address
 - 2 Cell Phone Number
 - 3 Cell Phone Carrier Company
- 78. Log on to your Professional Technician Society (PTS) account and enter the vehicle information.
 - 1 Select "Vehicle Id".
 - 2 Select "By Year & Model"
 - 3 Choose the year & model of the vehicle and then select "GO".
 - 4 Hover over the "Workshop" tab.
 - 5 Select the "Accessory Installation" menu item.
 - 6 Under the "Electrical" heading, select the "Remote Access Activation" link (first time users will need to agree to terms & conditions).
 - 7 Select the "Install or Diagnose" link.

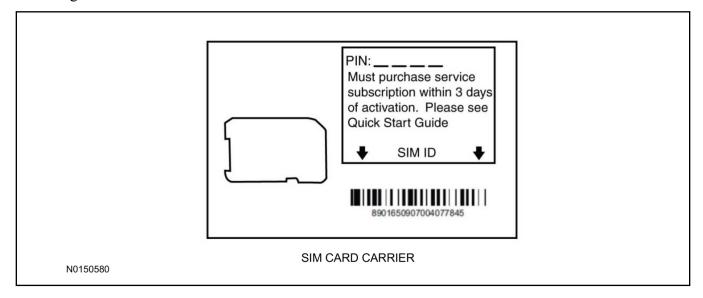
INSTALLATION (Continued)	
2015 Edge	Ve

NOTE:

If you are not directed to the screen shown below (or user agreement screen for first time users), make sure your internet browser zone settings are set to medium. This setting can be found in your browsers "internet options" under the "privacy" tab.

	LOG OUT
DEALER TOOLS	
Install or Push Diagnose Mobile App	
DOCUMENTATION & MANUALS • No documentation available	
Grid Baller MADER	
N0150870	

79. Once on the "Install" page, enter the SIM ID code that was provided with the RMST kit. Select "Begin or Continue Installation".



80. Click on the "On screen steps 1-6", and follow the on screen instructions to complete the installation.



NOTE:

The following step will complete the activation process, when you are directed to a screen similar to the one below ensure the correct vehicle brand is selected and that all applicable features are enabled.

NOTE:

The "perimeter" and "shock" settings below are optional features and should only be selected when security features are enabled.

NOTE:

On screen Step 3 shown below.

Installation Details			
Brand	Ford 💌		
Security Features	2 Requery		
▼ Start			
🔽 Stop			
🔽 Lock			
🔽 Unlock			
🔽 Car Finder			
Perimeter			
🗹 Shock			
Neturn			► Continue
N0150305			

81. NOTE:

On screen Step 4 shown below.

Perform a functional check of the system by testing each of the available features.

- Start/Stop function
- Lock/Unlock function
- Car finder
- Signal (for troubleshooting only)

Session Status Network Connection IP Assigned Comm Established Received IMEI Received ESN	Yes Yes 10.64.17.233 Yes 358901041730422 1663000117					
IP Assigned Comm Established Received IMEI Received ESN	10.64.17.233 Yes 358901041730422					
Comm Established 🖋 Received IMEI 🖋 Received ESN 🗳	Yes 358901041730422					
Received IMEI 🖋	358901041730422					
Received ESN						
	1663000117					
Vaus install has been too						
rour install has been tes	ted successfully. If you would	d like to test the ph	nysical function:	s of the module, you	can do so below.	
🚱 Start 🔞 Stop	🙆 Lock 🕼 Unlock 🤇	Car Finder	🕑 Signal			
Neturn						Continue

NOTE:

All tests above must be completed in order to move to the next step. If any of the listed functions fail, move the vehicle to an outside location and retest.

Vehicles Without Factory Remote Start Only

NOTE:

In the event start or stop fail, refer to the "Remote Start Activation" section in this manual.

NOTE:

In the event lock/unlock or car find fail, refer to the "Learn VSS to Vehicle" section in this manual.

82. Check the instrument cluster after remote start has completed. If the "To Drive: Press Brake and Start Button" message continues to be displayed after an ignition cycle, check for Special Service Messages (SSM's) for the vehicle to resolve the issue.

All Vehicles

- 83. Once the hardware installation and RMU activation process is complete, record the 4-digit PIN on the SIM card carrier. Provide the SIM card carrier to the customer so they can add this system to their Remote Access Account. Customer must have both the 4-digit PIN and SIM ID to activate/add their vehicle to their Remote Access Account.
- 84. If the customer agrees, you may push the mobile application to the customer. You will need the customer's phone number and cellular carrier. If the customer opts to install the application themselves, they can locate it in their mobile app store.

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

Vehicle Security / Remote Start / Remote Access System Installation

CONTENTS

VEHICLE PREPARATION

Hood Switch Installation

INSTALLATION

VSS Module Installation Security Indicator LED Mounting RMST Kit Antenna Installation RMU Module Installation

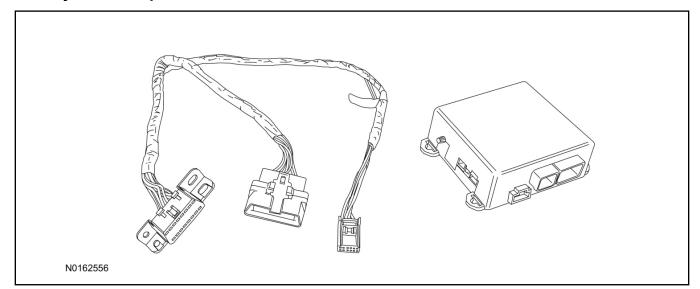
GENERAL PROCEDURES

Learn VSS to vehicle Shock Sensor Sensitivity Adjustment Standard Remote Start Activation RMU Remote Start Activation RMU Activation Proper Wire Splicing Techniques

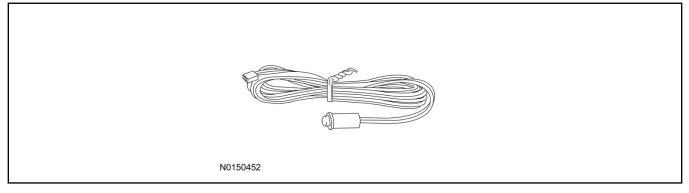
INSTALLATION

Vehicle Security / Remote Start / Remote Access - Explorer

VSS System Components



Security Indicator LED (19D596) "Optional"



Explorer

1. Verify correct kit number.

Review VSS Kit Contents

NOTE:

Kits are vehicle specific and are not interchangeable.

2. Review the VSS kit contents.

Vehicle Security System (VSS) Kit

QUANTITY	DESCRIPTION
1	VSS Module
1	T-harness

Vehicle Security System (VSS) Kit(Continued)

6	Tie-straps
1	Owner's Manual

Security Indicator LED Kit Contents "Optional"

3. Review the Security Indicator LED kit contents.

Security Indicator LED Kit

QUANTITY	DESCRIPTION
1	Security Indicator LED

I. VSS System Installation

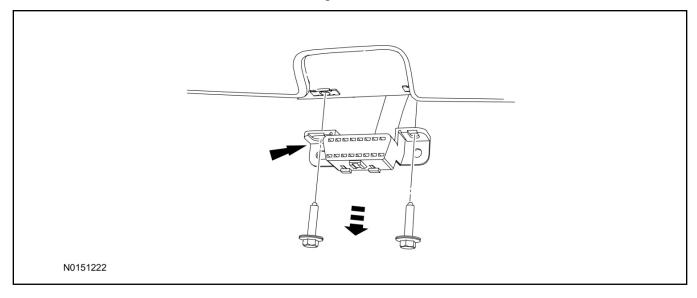
[▲]CAUTION:

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

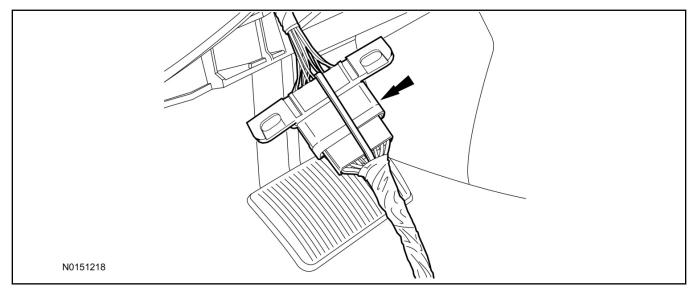
NOTE:

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

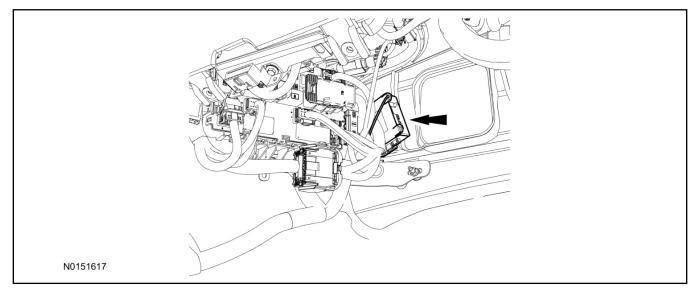
4. Remove the 2 bolts and remove the OBD II port from the IP frame.



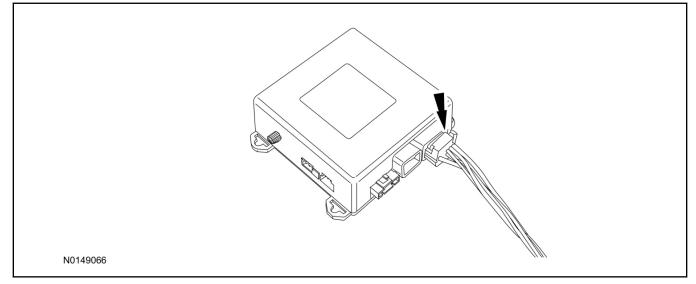
- 5. Connect the VSS T-harness to the OBD II port.
 - Secure the T-harness to the OBD II port using a tie-strap.



- 6. Position the VSS harness inside the IP being careful to avoid sharp edges and moving parts.
- 7. Install the new VSS harness OBD II port to the IP frame and install the bolts.
 - Do not over tighten.
- 8. Position the VSS module on top of the Body Control Module (BCM) and secure to wire harness with tie-straps.
 - 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.



- 9. Connect the VSS harness to the VSS module.
 - Secure the VSS harness with tie-straps.



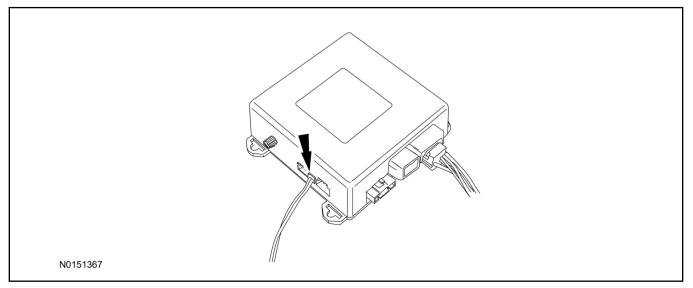
Optional Security Indicator LED Mounting

[▲]CAUTION:

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

- 10. 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.
- 11. 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.
- 12. Route the LED wire harness to the VSS module.

- 13. Connect the LED wire harness to the VSS module 2-pin white connector.
 - Secure the LED wire harness with tie-straps.



Learn VSS to Vehicle (Push Button Start Vehicles Only)

14. Cycle door locks at trim switch four times to learn remote start keyless functions.

Learn VSS to Vehicle (Key Start Vehicles Only)

NOTE:

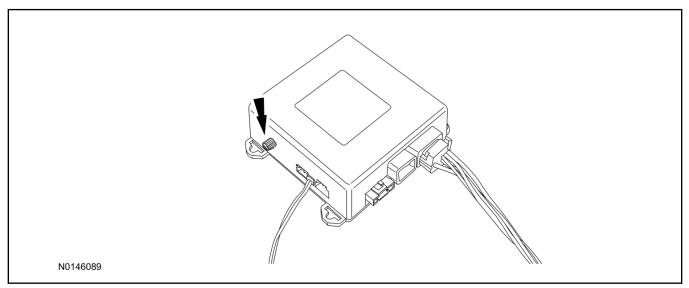
Make sure the brake pedal is not depressed during this sequence.

- 15. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 16. Put the key in the ignition.
- 17. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 18. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 19. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

Shock Sensor Sensitivity Adjustment

NOTE:

The VSS module is equipped with an internal dual zone Shock Sensor. The VSS system will activate a single horn honk/single light flash anytime a light to moderate impact is detected, and a "panic" type 30 second horn honk/light flash 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.



- 20. Starting with the adjustment knob in approximately the halfway position, lower the driver's window and exit the vehicle.
- 21. Press the LOCK button on the vehicle's RKE fob to arm the VSS system. The LED will light solid for 20 seconds and then begin to flash a steady on/off sequence to indicate the system is armed.
- 22. 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 honk and the lights will flash 1 time to indicate the warning impact was detected.
- 23. 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 honk and the lights will flash a steady on off sequence to indicate the heavy or full shock trigger was detected.
- 24. 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:

If installed, observe the LED while performing these tests.

25. 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.

- 26. 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.
- 27. 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.
- 28. Test all other vehicle doors, the hood and the trunk in the same manner, by setting off the alarm and disarming with the keyfob.

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

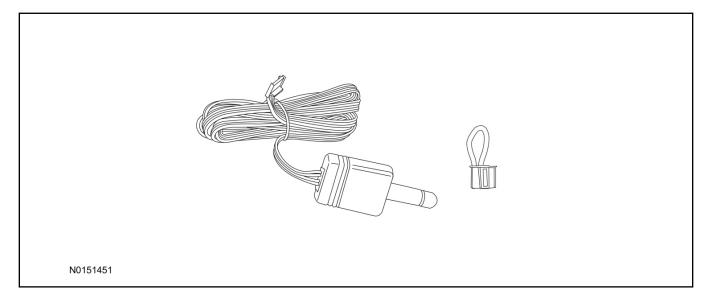
II. Remote Start (RMST) Upgrade - Antenna Kit "Sold Separately"

▲ CAUTION:

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

NOTE:

Verify that the vehicle has a hood switch Installed. If the vehicle is not equipped with a hood switch refer to "**Hood Switch Kit - Sold Separately**".

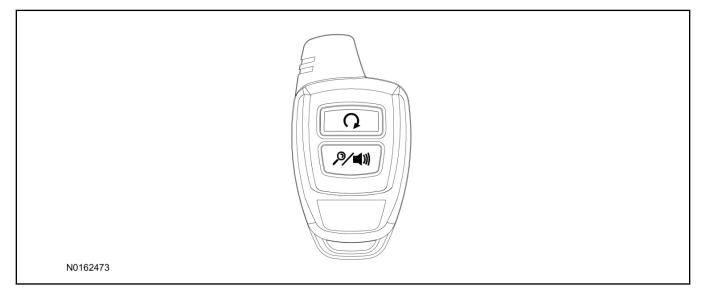


Standard Key Fob (15K601) "Sold Separately"

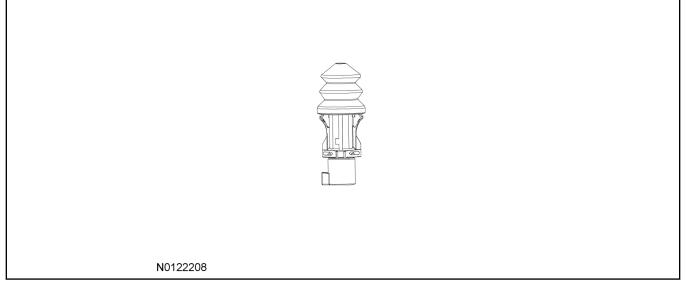


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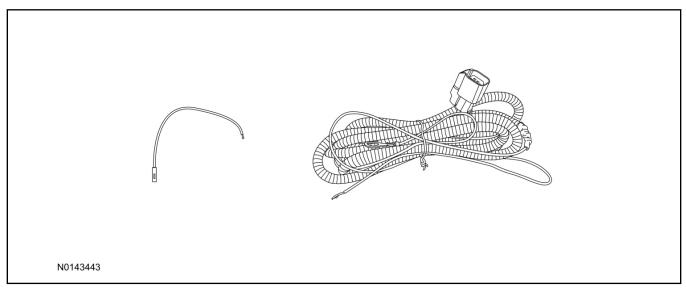
Bi-directional Key Fob (15K601) "Sold Separately"



Hood Switch Kit (19G366) - SE Vehicles Only "Sold Separately"



Optional Components - Hood Switch Wire Harness Kit (14B504) - SE Vehicles Only "Sold Separately"



Optional RMST Upgrade Components "Sold Separately"

30. Review the RMST Upgrade components.

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

QUANTITY	DESCRIPTION	
1	Bi-directional Antenna (TBD)	
1	Security Jumper (TBD)	

Standard Key Fob (15K601) "Sold Separately"

QUANTITY	DESCRIPTION
1	Standard Key Fob (15K601)

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

QUANTITY	DESCRIPTION
1	Bi-directional Key Fob (15K601)

Hood Switch Kit Contents (if required) "Sold Separately"

31. Review the Hood Switch kit contents.

Hood Switch Kit "Sold Separately"

QUANTITY	DESCRIPTION
1	Hood Switch Assembly

Review Hood Switch Wire Harness Kit Contents (if required) "Sold Separately"

32. Review the Hood Switch kit contents.

Hood Switch Wire Harness Kit "Sold Separately"

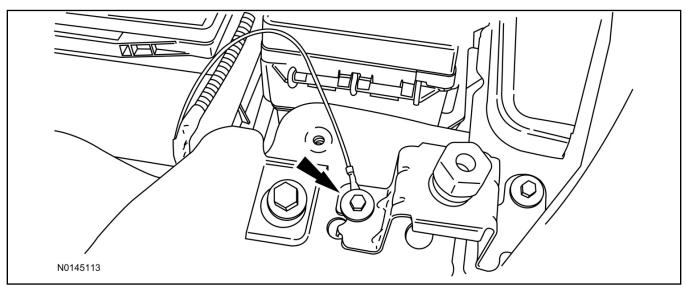
QUANTITY	DESCRIPTION	
1	Body Control Module (BCM) Terminal Wire	
1	Hood Switch Wire Harness	

Hood Switch Kit - "Sold Separately"

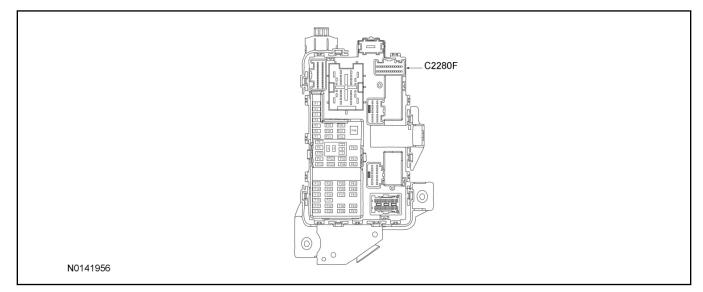
NOTE:

Hood switch installation is optional for VSS installation and required if the vehicle is being upgraded to RMST/RMU and is not currently equipped with a hood switch.

- 33. Remove the fender bolt and install the hood switch ground wire, using the previously removed bolt.
 - Tighten to 12 Nm (106 lb-in).



- 34. Route the hood switch wire harness into the vehicle through the bulkhead grommet.
 - Secure the hood switch wire harness with zip-ties.
- 35. Disconnect Body Control Module (BCM) connector C2280F.



- 36. If equipped, remove the pin plug from BCM connector C2280F Pin 2.
 - If the vehicle is not equipped with a hood switch wire harness from the factory C2280F will not have a wire at the Pin 2 location.

37. *NOTICE:*

Check that the all wire pins are attached firmly and properly positioned/secured within the connector shell, after performing this step.

Insert the BCM terminal wire from the hood switch wire harness kit into BCM connector C2280F Pin 2.

- Some disassembly of BCM connector C2280F may be required to perform this step.
- 38. Connect BCM connector C2280F.

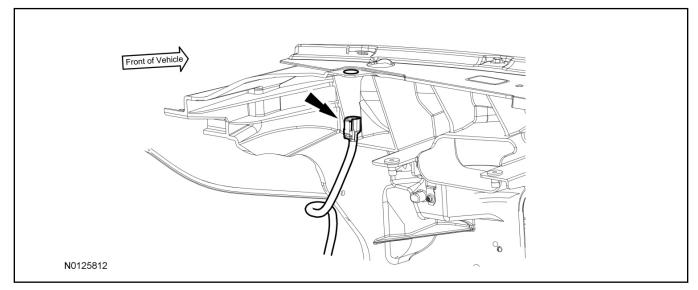
NOTICE: Refer to "Proper Wire Splicing Techniques" before proceeding.

- 39. Connect the hood switch wire harness wire to the BCM Terminal Wire.
 - Secure the wire harness assembly with zip-ties.

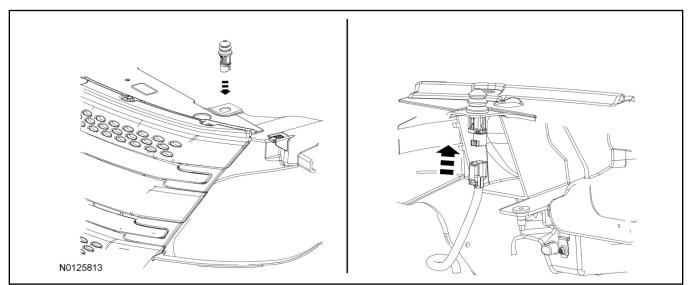
Vehicle Security/Remote Start/Remote Access

2011-2015 Explorer INSTALLATION (Continued)

- 40. Locate the vehicle's existing "OE" hood switch wire harness, located on the LH side of the vehicle below the radiator core support.
 - If required remove the vehicle's air cleaner assembly, to access the vehicles "OE" hood switch wire harness. For additional information, refer to Workshop Manual (WSM), Section 303-12.

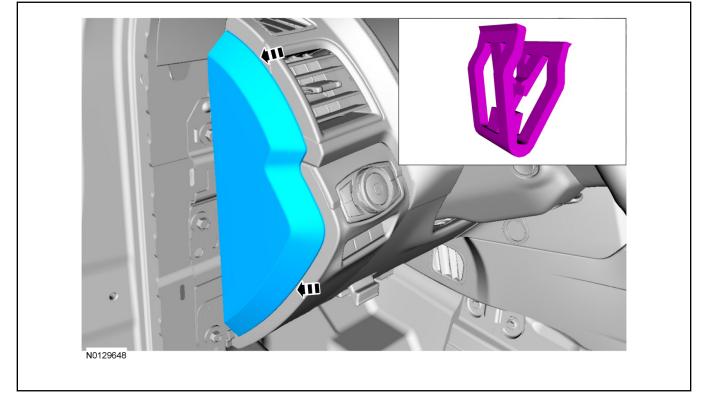


- 41. Install the OE hood switch assembly to the existing hood switch mounting location, on the LH side of the upper radiator core support as shown.
 - If equipped, remove the dummy plug from the upper radiator core support.
 - Position the flat spot on the hood switch to the flat spot on the radiator core support.
 - Connect the electrical connector to the hood switch.



RMST Kit Antenna Installation

42. Remove the LH IP side finish panel.



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

44. **NOTE:**

Do not touch the adhesive, reduced adhesion may result.

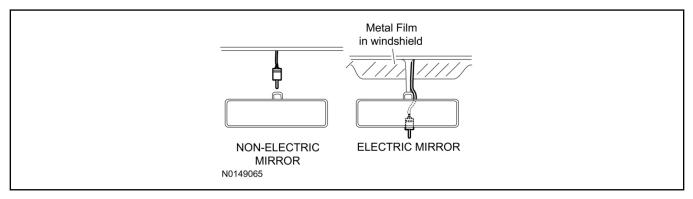
NOTE:

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.

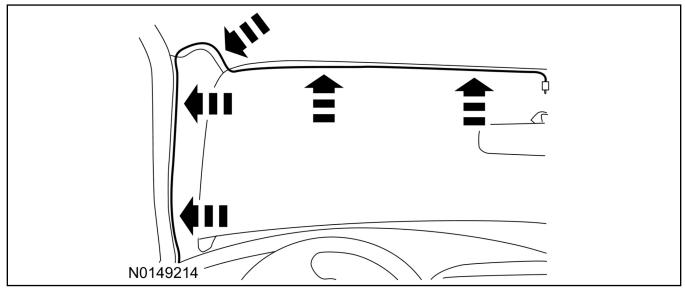


45. If necessary, position the LH A-pillar trim slightly outward to provide access to route the antenna wire.

NOTE:

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

- 46. 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.



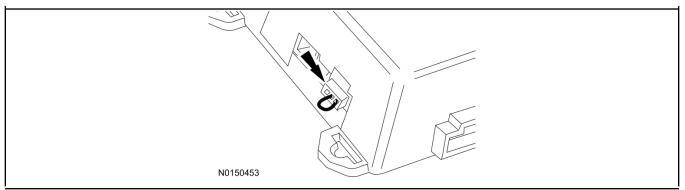
- 47. Connect the antenna connector to the VSS module.
- 48. Reposition the A-pillar trim panel back, if necessary.
- 49. Install the LH IP side finish panel.

VSS Module - Optional Vehicle Security Features

50. Enable/Disable Vehicle Security Features:

Locate the security jumper supplied in the kit.

- Install the jumper to the VSS module if the vehicle security features are to be **disabled**.
- Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



RMST Activation - Key Start Only

NOTE:

For vehicles equipped with push button start, proceed to Step 63 within the "Programming Key Fobs" section of this manual.

- 51. Verify that the IDS is updated to the most current version.
- 52. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.

- 53. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Body.
 - Select Security.
 - Select Remote Start.
 - Verify that the information on the IDS screen is correct and all procedures have been followed.
 - Select Yes. This will enable the remote start function on the vehicle.
- 54. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.
- 55. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Learn Remote Start to Vehicle (Push Button Start Vehicles Only)

56. Cycle door locks at trim switch four times to learn remote start keyless functions.

Learn Remote Start to Vehicle (Key Start Vehicles Only)

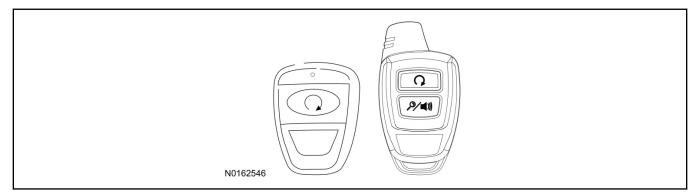
NOTE:

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

- 57. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 58. Put the key in the ignition.

- 59. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 60. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 61. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

Programming Key Fobs



62. Key Start Vehicles:

NOTE:

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

- 1 Start with doors unlocked
- 2 Driver's door open (remaining open throughout)
- 3 Verify that the gearshift lever is in the "PARK" position.
- 4 Depress and hold brake pedal.
- 5 Start with ignition key OFF.
- 6 Cycle ignition key to the ON then OFF position 5 times, then back to the ON position a 6th time.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 7 Press the START button on each transmitter you wish to program. The horn will honk 1 time each time the START button is pressed to indicated the transmitter has been learned.
- 8 Cycle ignition key to the OFF position to exit transmitter learn mode.

9 NOTE:

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

63. Push Button Start Vehicles:

NOTE:

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

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.
- 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 four times, ending in ignition on, engine off.
- 6 Release the brake pedal.
- 7 Press the vehicle start/stop button twice to turn ignition on.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 8 Press the start stop button on each fob you wish to program.
- 9 Cycle ignition to the OFF position to exit transmitter learn mode.

10 **NOTE:**

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

RMST Functional Test

NOTE:

Do not put a key in the ignition for the following steps.

- 64. Make sure the shift lever is in PARK and the ignition is in the OFF position. Remove all keys from the vehicle.
- 65. Close the hood.
- 66. Close all of the vehicle doors.
- 67. Start the vehicle by pressing the remote start button twice on the remote start key fob.
- 68. Confirm the remote start works with the vehicle in park and with the hood and doors closed.
- 69. Open the hood.

70. NOTE:

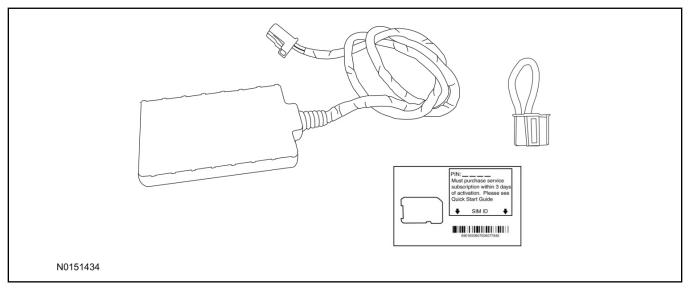
Vehicle doors should be closed while performing this step.

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

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

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

III. Remote Access (RMU) Upgrade "Sold Separately"



72. Review the RMU upgrade components.

Optional Components — Remote Access (RMU) Upgrade "Sold Separately"

QUANTITY	DESCRIPTION
1	Remote Messaging Unit (RMU)
1	SIM Card Carrier
1	Security Jumper

[▲]CAUTION:

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

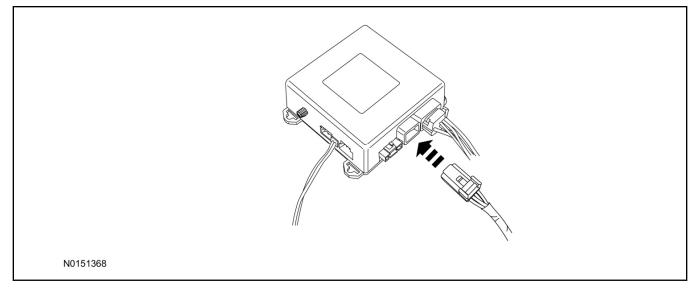
NOTE:

For proper range of operation, the RMU must be installed as shown in the diagram below.

73. Using tie-straps secure the RMU to the IP harness near the previously installed VSS module.

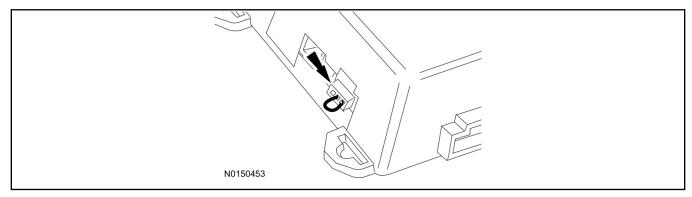
N151152	

- 74. Connect the RMU electrical connector to the VSS module.
 - Secure the harness with tie-straps.



VSS Module - Optional Vehicle Security Features

- 75. Enable/Disable Vehicle Security Features: Locate the security jumper supplied in the kit.
 - Install the jumper to the VSS module if the vehicle security features are to be **disabled**.
 - Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



Remote Start Activation - Key Start Vehicles (Without Factory Remote Start)

- 76. Verify that the IDS is updated to the most current version.
- 77. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.
- 78. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Body.
 - Select Security.
 - Select Remote Start.
 - Verify that the information on the IDS screen is correct and all procedures have been followed.
 - Select Yes. This will enable the remote start function on the vehicle.
- 79. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.
- 80. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Learn Remote Start to Vehicle (Push Button Start Vehicles Only)

81. Cycle door locks at trim switch four times to learn remote start keyless functions.

Learn Remote Start to Vehicle (Key Start Vehicles Only)

NOTE:

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

- 82. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 83. Put the key in the ignition.
- 84. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 85. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 86. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

RMU Activation

NOTE:

Please note that the Remote Access application that is used to start the vehicle for this RMST kit will only work with iPhone and Android phones.

- 87. For RMU activation the following information from the customer is recommended to provide them with electronic notification for app retrieval:
 - 1 Email Address
 - 2 Cell Phone Number
 - 3 Cell Phone Carrier Company
- 88. Log on to your Professional Technician Society (PTS) account and enter the vehicle information.
 - 1 Select "Vehicle Id".
 - 2 Select "By Year & Model"
 - 3 Choose the year & model of the vehicle and then select "GO".
 - 4 Hover over the "Workshop" tab.
 - 5 Select the "Accessory Installation" menu item.
 - 6 Under the "Electrical" heading, select the "Remote Access Activation" link (first time users will need to agree to terms & conditions).
 - 7 Select the "Install or Diagnose" link.

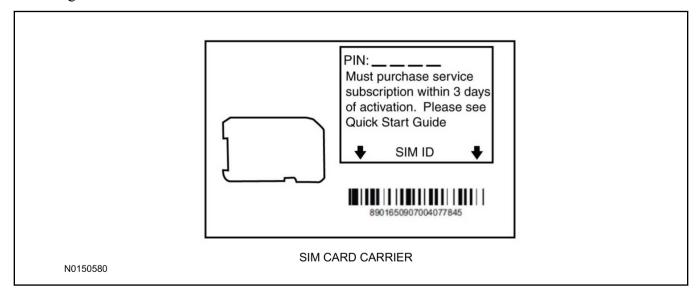
2011-2015 Explorer INSTALLATION (Continued)

NOTE:

If you are not directed to the screen shown below (or user agreement screen for first time users), make sure your internet browser zone settings are set to medium. This setting can be found in your browsers "internet options" under the "privacy" tab.

HOME DEALER TOOLS	LOG OUT
DEALER TOOLS	
Install or Diagnose Mobile App	
DOCUMENTATION & MANUALS	
N0150870	

89. Once on the "Install" page, enter the SIM ID code that was provided with the RMST kit. Select "Begin or Continue Installation".



90. Click on the "On screen steps 1-6", and follow the on screen instructions to complete the installation.



2011-2015 Explorer INSTALLATION (Continued)

NOTE:

The following step will complete the activation process, when you are directed to a screen similar to the one below ensure the correct vehicle brand is selected and that all applicable features are enabled.

NOTE:

The "perimeter" and "shock" settings below are optional features and should only be selected when security features are enabled.

Installation Details			
Brand	Ford 💌		
Security Features	2 Requery		
▼ Start			
🔽 Stop			
☑ Lock			
🗹 Unlock			
🔽 Car Finder			
Perimeter			
Ⅳ Shock			
Neturn			Continue
N0150305			

2011-2015 Explorer

INSTALLATION (Continued)

- 91. Perform a functional check of the system by testing each of the available features.
 - Start/Stop function
 - Lock/Unlock function
 - Car finder
 - Signal (for troubleshooting only)

Session Sta Network Co IP Assigned Comm Esta Received IM	d d	Yes Yes 10.64.17.2 Yes	233					
IP Assigned Comm Esta Received IM	d 🖌	10.64.17.2	233					
Comm Esta Received IM	ablished 🏼 🖌		233					
Received IM		Yes						
	MEI 🧳							
	312.63 S	358901041	1730422					
Received E	ESN 🖌	166300011	17					
						as of the module	, you can do so bel	low.
Start	Stop Stop	U Lock	Unlock	Gar Finder	Signal 🔮			
P Return	'n							Continue

2011-2015 Explorer INSTALLATION (Continued)

NOTE:

All tests above must be completed in order to move to the next step. If any of the listed functions fail, move the vehicle to an outside location and retest.

Key Start Vehicles Only

NOTE:

In the event start or stop fail, refer to the "Remote Start Activation" section in this manual.

NOTE:

In the event lock/unlock or car find fail, refer to the "Learn Remote Start System to Vehicle" section in this manual.

All Vehicles

- 92. Once the hardware installation and RMU activation process is complete, record the 4-digit PIN on the SIM card carrier. Provide the SIM card carrier to the customer so they can add this system to their Remote Access Account. Customer must have both the 4-digit PIN and SIM ID to activate/add their vehicle to their Remote Access Account.
- 93. If the customer agrees, you may push the mobile application to the customer. You will need the customer's phone number and cellular carrier. If the customer opts to install the application themselves, they can locate it in their mobile app store.

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

Vehicle Security / Remote Start / Remote Access System Installation

CONTENTS

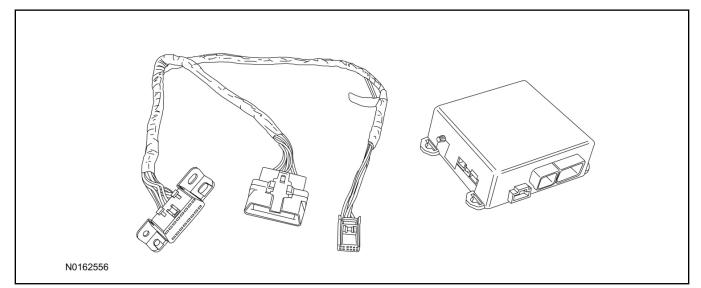
VEHICLE PREPARATION Hood Switch Installation INSTALLATION VSS Module Installation Security Indicator LED Mounting TPM Antenna Kit Installation RMST Kit Antenna Installation RMU Module Installation GENERAL PROCEDURES Learn VSS to vehicle

Shock Sensor Sensitivity Adjustment Standard Remote Start Activation RMU Remote Start Activation RMU Activation

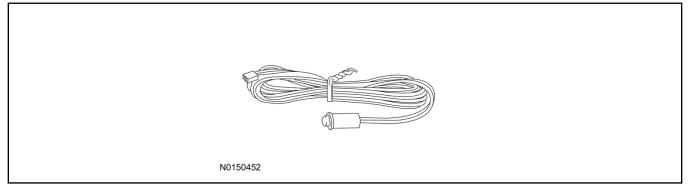
INSTALLATION

Vehicle Security / Remote Start / Remote Access - F-150

VSS System Components



Security Indicator LED (19D596) "Optional"



F-150

1. Verify correct kit number.

Review VSS Kit Contents

NOTE:

Kits are vehicle specific and are not interchangeable.

2. Review the VSS kit contents.

Vehicle Security System (VSS) Kit

QUANTITY	DESCRIPTION
1	VSS Module
1	T-harness

Vehicle Security System (VSS) Kit(Continued)

6	Tie-straps
1	Owner's Manual

Security Indicator LED Kit Contents "Optional"

3. Review the Security Indicator LED kit contents.

Security Indicator LED Kit

QUANTITY	DESCRIPTION
1	Security Indicator LED

I. VSS System Installation

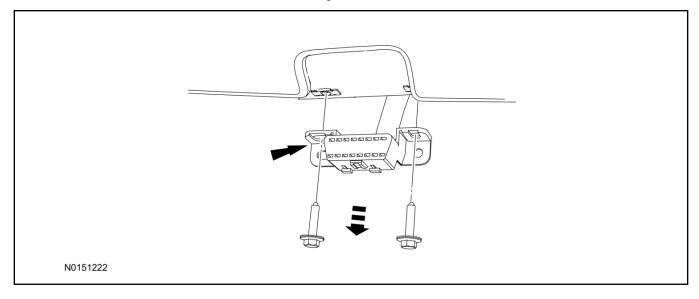
[▲]CAUTION:

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

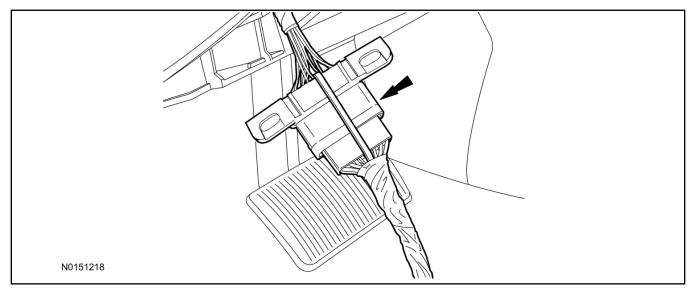
NOTE:

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

4. Remove the 2 bolts and remove the OBD II port from the IP frame.



- 5. Connect the VSS T-harness to the OBD II port.
 - Secure the T-harness to the OBD II port using a tie-strap.

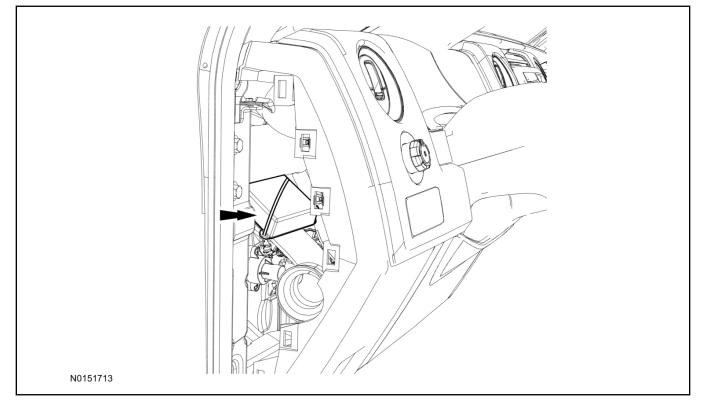


- 6. Position the VSS harness inside the IP being careful to avoid sharp edges and moving parts.
- 7. Install the new VSS harness OBD II port to the IP frame and install the bolts.
 - Do not over tighten.
- 8. Remove the LH Instrument Panel (IP) side finish panel.

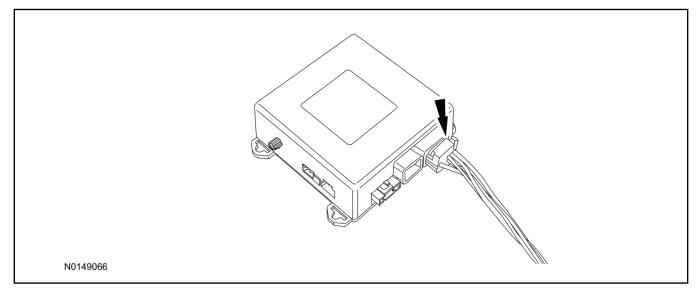
2011-2014 F-150

INSTALLATION (Continued)

- 9. Position the VSS module on top of the A/C duct located behind the LH IP side finish panel and secure with tie-straps.
 - 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.

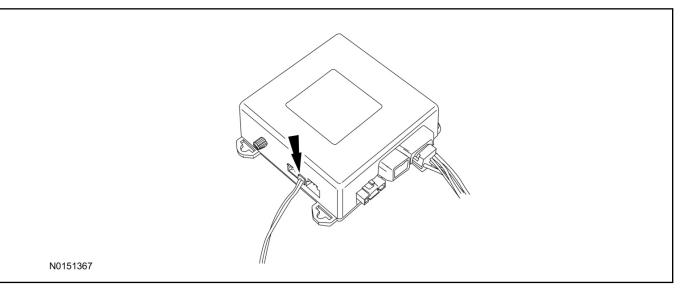


Optional Security Indicator LED Mounting

CAUTION:

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

- 11. 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.
- 12. 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.
- 13. Route the LED wire harness to the VSS module.
- 14. Connect the LED wire harness to the VSS module 2-pin white connector.
 - Secure the LED wire harness with tie-straps.



Learn VSS to Vehicle (Push Button Start Vehicles Only)

15. Cycle door locks at trim switch four times to learn remote start keyless functions.

Learn VSS to Vehicle (Key Start Vehicles Only)

NOTE:

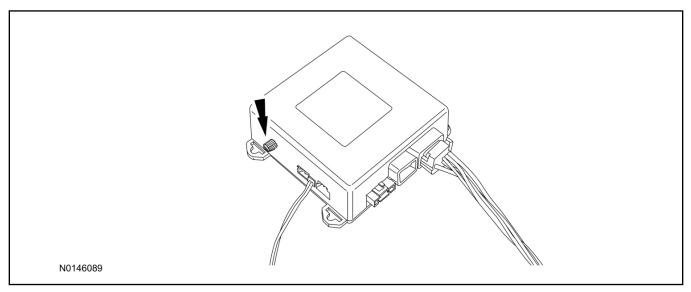
Make sure the brake pedal is not depressed during this sequence.

- 16. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 17. Put the key in the ignition.
- 18. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 19. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 20. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

Shock Sensor Sensitivity Adjustment

NOTE:

The VSS module is equipped with an internal dual zone Shock Sensor. The VSS system will activate a single horn honk/single light flash anytime a light to moderate impact is detected, and a "panic" type 30 second horn honk/light flash 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.



- 21. Starting with the adjustment knob in approximately the halfway position, lower the driver's window and exit the vehicle.
- 22. Press the LOCK button on the vehicle's RKE fob to arm the VSS system. The LED will light solid for 20 seconds and then begin to flash a steady on/off sequence to indicate the system is armed.
- 23. 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 honk and the lights will flash 1 time to indicate the warning impact was detected.
- 24. 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 honk and the lights will flash a steady on off sequence to indicate the heavy or full shock trigger was detected.
- 25. 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.
- 26. If vehicle will not be upgraded to Remote Start or Remote Access functions at this time, install the LH Instrument Panel (IP) side finish panel.

VSS Functional Test

NOTE:

If installed, observe the LED while performing these tests.

- 27. 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.
- 28. 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.
- 29. 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.
- 30. Test all other vehicle doors, the hood and the trunk in the same manner, by setting off the alarm and disarming with the keyfob.
- 31. Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.

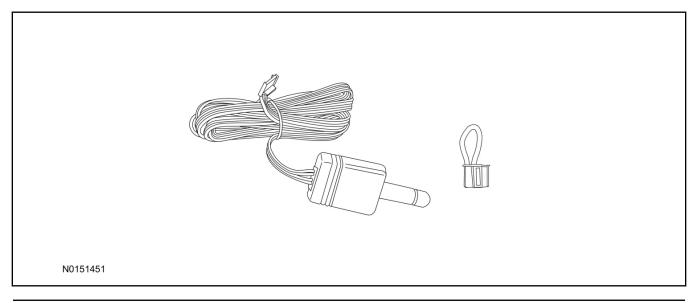
II. Remote Start (RMST) Upgrade - Antenna Kit "Sold Separately"

ACAUTION:

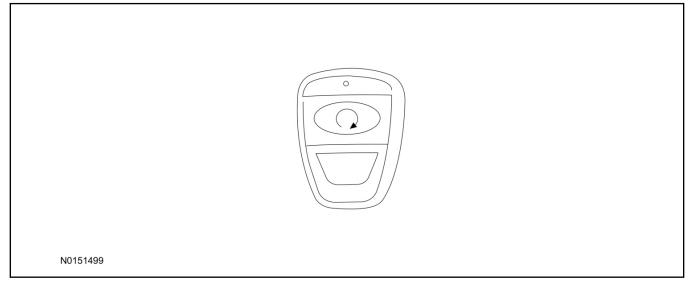
Carefully route and secure module and harnesses so that they do not interfere with moving parts or linkages.

NOTE:

Verify that the vehicle has a hood switch Installed. If the vehicle is not equipped with a hood switch refer to "**Hood Switch Kit - Sold Separately**".



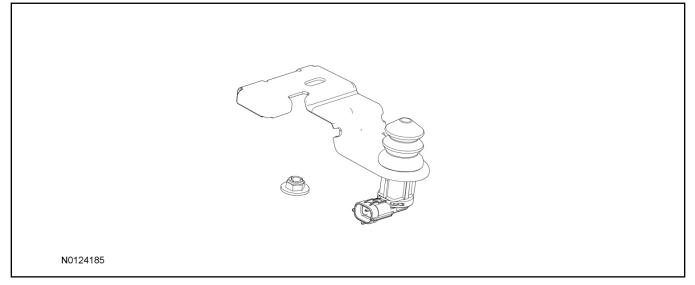
Standard Key Fob (15K601) "Sold Separately"



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



Hood Switch Kit (19G366) - SE Vehicles Only "Sold Separately"



Optional RMST Upgrade Components "Sold Separately"

32. Review the RMST Upgrade components.

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

QUANTITY	DESCRIPTION
1	Bi-directional Antenna (TBD)
1	Security Jumper (TBD)

Standard Key Fob (15K601) "Sold Separately"

QUANTITY	DESCRIPTION
1	Standard Key Fob (15K601)

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

QUANTITY	DESCRIPTION
1	Bi-directional Key Fob (15K601)

Hood Switch Kit Contents (if required) "Sold Separately"

33. Review the Hood Switch kit contents.

Hood Switch Kit "Sold Separately"

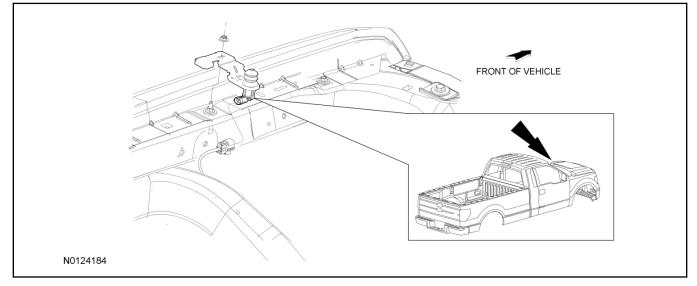
QUANTITY	DESCRIPTION
1	Nut
1	Hood Switch Assembly

Hood Switch Kit - "Sold Separately"

NOTE:

Hood switch installation is optional for VSS installation and required if the vehicle is being upgraded to RMST/RMU and is not currently equipped with a hood switch.

- 34. Locate the hood switch electrical connector located on the coolant reservoir.
 - Disconnect the hood switch electrical connector from the coolant reservoir retainer plug.
- 35. Install the Hood switch assembly.
 - Install the nut.
 - Tighten to 6 Nm (53 lb-in).



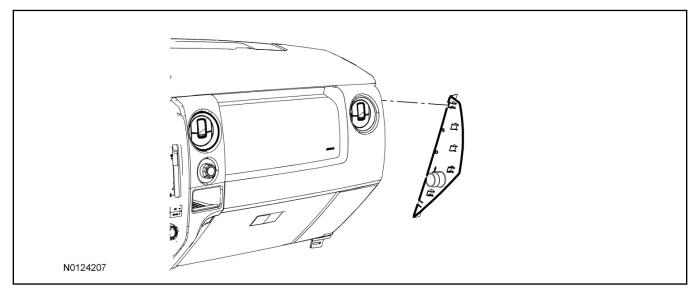
36. Connect the electrical connector to the hood switch.

TPM Antenna Kit Installation

NOTE:

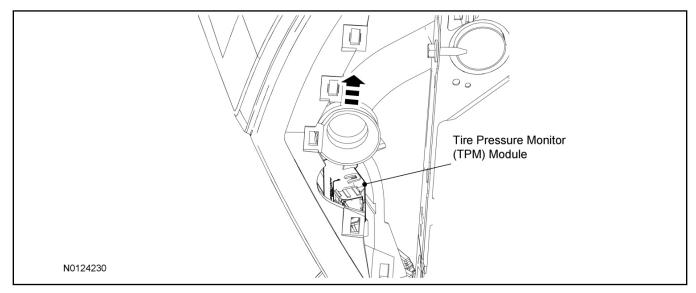
The TPM Antenna Kit is only required if the vehicle is not equipped with Factory remote start.

37. Remove the RH IP side finish panel.

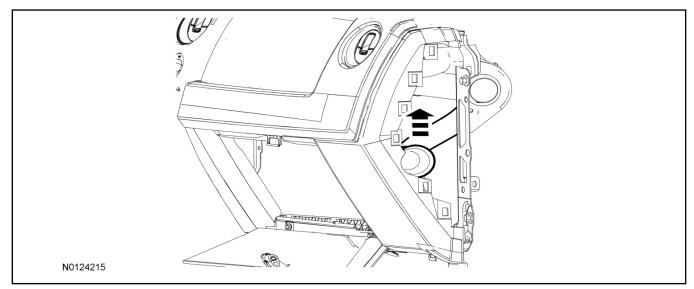


2011-2014 F-150 INSTALLATION (Continued)

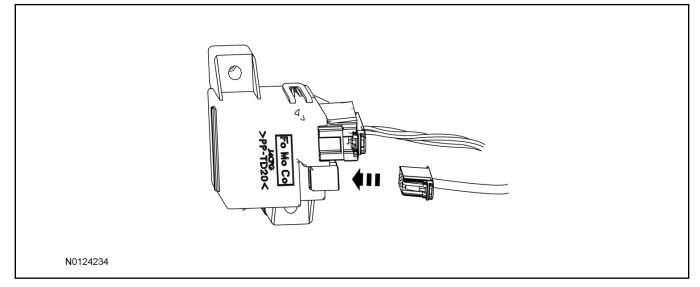
- 38. Open the glove compartment.
- 39. Push in the 2 side tabs and fully lower the glove compartment.
- 40. Locate the Tire Pressure Monitor (TPM) Module.



41. Position the A/C duct to access the TPM module electrical connectors.



42. Connect the antenna jumper wire to the TPM module.

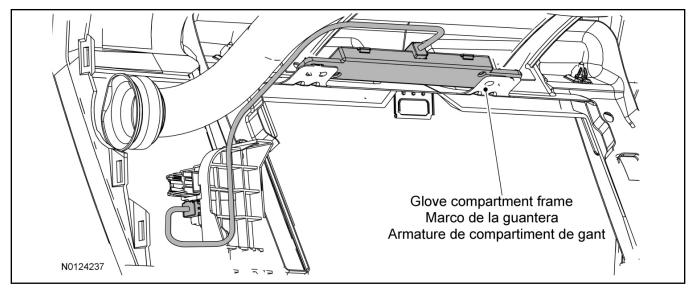


43. **NOTE:**

View is from inside the instrument panel glove box area.

Secure the antenna module to the glove box frame on top of the existing antenna module brackets.

• Secure the antenna module with tie straps though the existing bracket holes.



- 44. Connect the antenna jumper wire connector to the antenna module.
 - Secure with tie straps.
 - The push pins on the antenna jumper wire are not used for this application.
- 45. Position the A/C duct back to its original position.

.

46. *NOTICE:*

While closing the glove compartment make sure that the TPM harness and antenna harness do not come in contact with the glove compartment door.

Close the glove compartment.

47. Install the RH IP side finish panel.

RMST Kit Antenna Installation

- 48. If previously installed, remove the LH IP side finish panel.
- 49. Clean the antenna mounting surface using an alcohol base solution and a clean cloth.

50. **NOTE:**

Do not touch the adhesive, reduced adhesion may result.

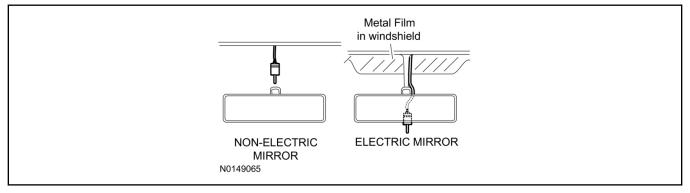
NOTE:

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.

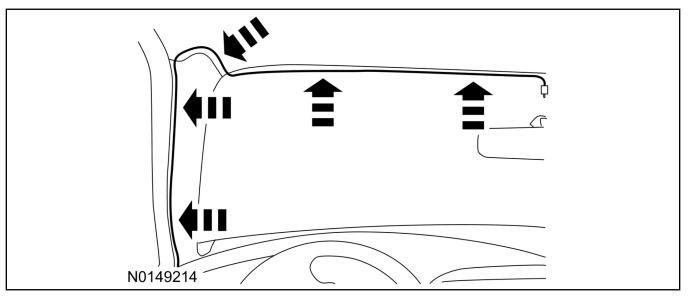


51. If necessary, position the A-pillar trim slightly outward to provide access to route the antenna wire. For additional information, refer to Workshop Manual (WSM) Section 501-05.

NOTE:

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

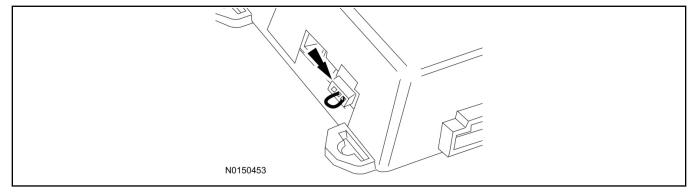
- 52. Route the antenna cable along the headliner and down the A-pillar towards the floor. Continue routing the wire into the IP towards the VSS module.
 - Secure with tie-straps.



- 53. Connect the antenna connector to the VSS module.
- 54. Reposition the A-pillar trim panel back, if necessary. For additional information, refer to WSM Section 501-05.
- 55. If the RMST kit will not be upgraded to Remote Access functions at this time, install the LH IP side finish panel.

VSS Module - Optional Vehicle Security Features

- 56. Enable/Disable Vehicle Security Features: Locate the security jumper supplied in the kit.
 - Install the jumper to the VSS module if the vehicle security features are to be disabled.
 - Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



RMST Activation

- 57. Verify that the IDS is updated to the most current version.
- 58. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.

- 59. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Body.
 - Select Security.
 - Select Remote Start.
 - Verify that the information on the IDS screen is correct and all procedures have been followed.
 - Select Yes. This will enable the remote start function on the vehicle.
- 60. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.
- 61. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Learn Remote Start to Vehicle (Push Button Start Vehicles Only)

62. Cycle door locks at trim switch four times to learn remote start keyless functions.

Learn Remote Start to Vehicle (Key Start Vehicles Only)

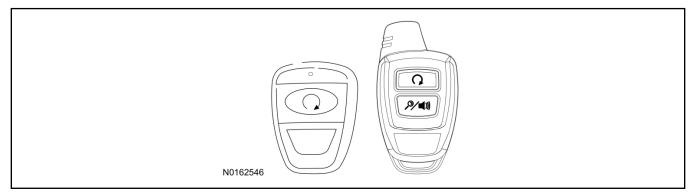
NOTE:

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

- 63. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 64. Put the key in the ignition.
- 65. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.

- 66. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 67. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

Programming Key Fobs



68. **NOTE:**

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

- 1 Start with doors unlocked
- 2 Driver's door open (remaining open throughout)
- 3 Verify that the gearshift lever is in the "PARK" position.
- 4 Depress and hold brake pedal.
- 5 Start with ignition key OFF.
- 6 Cycle ignition key to the ON then OFF position 5 times, then back to the ON position a 6th time.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 7 Press the START button on each transmitter you wish to program. The horn will honk 1 time each time the START button is pressed to indicated the transmitter has been learned.
- 8 Cycle ignition key to the OFF position to exit transmitter learn mode.
- **9 NOTE:**

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

RMST Functional Test

NOTE:

Do not put a key in the ignition for the following steps.

69. Make sure the shift lever is in PARK and the ignition is in the OFF position. Remove all keys from the vehicle.

2011-2014 F-150 INSTALLATION (Continued)

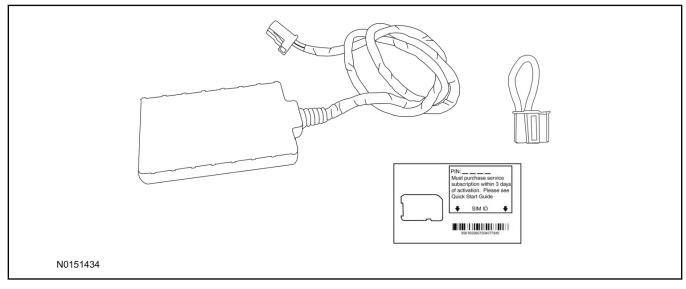
- 70. Close the hood.
- 71. Close all of the vehicle doors.
- 72. Start the vehicle by pressing the remote start button twice on the remote start key fob.
- 73. Confirm the remote start works with the vehicle in park and with the hood and doors closed.
- 74. Open the hood.
- 75. NOTE:

Vehicle doors should be closed while performing this step.

Confirm that the vehicle will not start with the hood open. **Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.**

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

III. Remote Access (RMU) Upgrade "Sold Separately"



77. Review the RMU upgrade components.

Optional Components — Remote Access (RMU) Upgrade "Sold Separately"

QUANTITY	DESCRIPTION
1	Remote Messaging Unit (RMU)
1	SIM Card Carrier
1	Security Jumper

[▲]CAUTION:

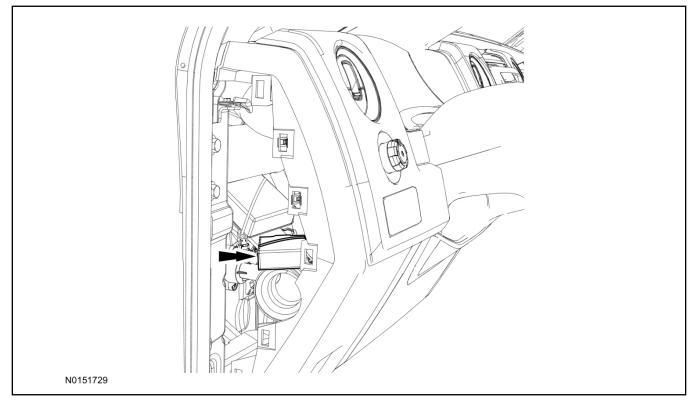
Carefully route and secure module and harnesses so that they do not interfere with moving parts or linkages.

NOTE:

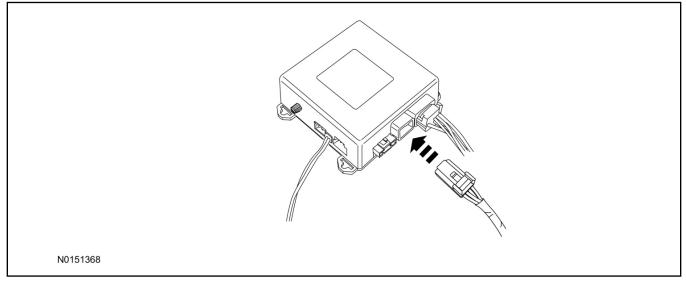
For proper range of operation, the RMU must be installed as shown in the diagram below.

78. If previously installed, remove the LH IP side finish panel.

79. Using tie-straps secure the RMU to the A/C duct behind the LH IP side finish panel.



- 80. Connect the RMU electrical connector to the VSS module.
 - Secure the harness with tie-straps.



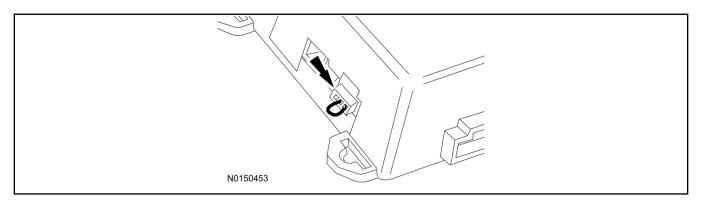
VSS Module - Optional Vehicle Security Features

81. Enable/Disable Vehicle Security Features:

Locate the security jumper supplied in the kit.

- Install the jumper to the VSS module if the vehicle security features are to be disabled.
- Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.

2011-2014 F-150 INSTALLATION (Continued)



82. Install the LH IP side finish panel.

Remote Start Activation - (Without Factory Remote Start)

- 83. Verify that the IDS is updated to the most current version.
- 84. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.
- 85. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Body.
 - Select Security.
 - Select Remote Start.
 - Verify that the information on the IDS screen is correct and all procedures have been followed.
 - Select Yes. This will enable the remote start function on the vehicle.
- 86. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.
- 87. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.

• Verify that the remote start system is enabled.

Learn Remote Start to Vehicle (Push Button Start Vehicles Only)

88. Cycle door locks at trim switch four times to learn remote start keyless functions.

Learn Remote Start to Vehicle (Key Start Vehicles Only)

NOTE:

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

- 89. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 90. Put the key in the ignition.
- 91. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 92. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 93. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

RMU Activation

NOTE:

Please note that the Remote Access application that is used to start the vehicle for this RMST kit will only work with iPhone and Android phones.

- 94. For RMU activation the following information from the customer is recommended to provide them with electronic notification for app retrieval:
 - 1 Email Address
 - 2 Cell Phone Number
 - 3 Cell Phone Carrier Company
- 95. Log on to your Professional Technician Society (PTS) account and enter the vehicle information.
 - 1 Select "Vehicle Id".
 - 2 Select "By Year & Model"
 - 3 Choose the year & model of the vehicle and then select "GO".
 - 4 Hover over the "Workshop" tab.
 - 5 Select the "Accessory Installation" menu item.
 - 6 Under the "Electrical" heading, select the "Remote Access Activation" link (first time users will need to agree to terms & conditions).
 - 7 Select the "Install or Diagnose" link.

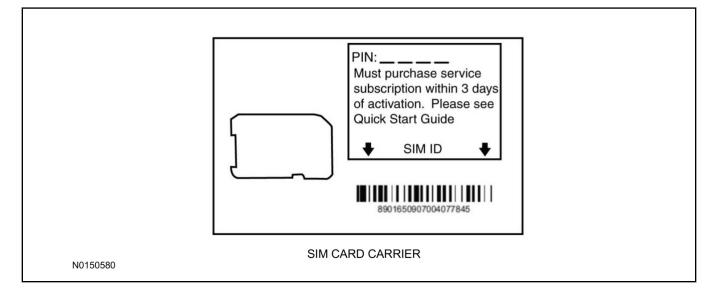
2011-2014 F-150 INSTALLATION (Continued)

NOTE:

If you are not directed to the screen shown below (or user agreement screen for first time users), make sure your internet browser zone settings are set to medium. This setting can be found in your browsers "internet options" under the "privacy" tab.

HOME DEALER TOOLS	LOG OUT
DEALER TOOLS	
Install or Diagnose Mobile App	
DOCUMENTATION & MANUALS	
N0150870	

96. Once on the "Install" page, enter the SIM ID code that was provided with the RMST kit. Select "Begin or Continue Installation".



97. Click on the "On screen steps 1-6", and follow the on screen instructions to complete the installation.



2011-2014 F-150 INSTALLATION (Continued)

NOTE:

The following step will complete the activation process, when you are directed to a screen similar to the one below ensure the correct vehicle brand is selected and that all applicable features are enabled.

NOTE:

The "perimeter" and "shock" settings below are optional features and should only be selected when security features are enabled.

Installation Details	
Brand	Ford 💌
Security Features	2 Requery
Start	
🔽 Stop	
🔽 Lock	
Unlock	
🗹 Car Finder	
Perimeter	
☑ Shock	
Neturn	
N0150305	

2011-2014 F-150

INSTALLATION (Continued)

- 98. Perform a functional check of the system by testing each of the available features.
 - Start/Stop function
 - Lock/Unlock function
 - Car finder
 - Signal (for troubleshooting only)

Session Status	*	Yes	
Network Connection	n 🖌	Yes	
IP Assigned	*	10.64.17.233	
Comm Established	+	Yes	
Received IMEI	*	358901041730422	
Received ESN	*	1663000117	
Your install has be		ed successfully. If you would like to test the physical functions of the module, you can do so below.	
	top	Signal	
🞯 Start 🞯 St			

NOTE:

All tests above must be completed in order to move to the next step. If any of the listed functions fail, move the vehicle to an outside location and retest.

NOTE:

In the event start or stop fail, refer to the "Remote Start Activation" section in this manual.

NOTE:

In the event lock/unlock or car find fail, refer to the "Learn Remote Start System to Vehicle" section in this manual.

- 99. Once the hardware installation and RMU activation process is complete, record the 4-digit PIN on the SIM card carrier. Provide the SIM card carrier to the customer so they can add this system to their Remote Access Account. Customer must have both the 4-digit PIN and SIM ID to activate/add their vehicle to their Remote Access Account.
- 100.If the customer agrees, you may push the mobile application to the customer. You will need the customer's phone number and cellular carrier. If the customer opts to install the application themselves, they can locate it in their mobile app store.

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

Vehicle Security / Remote Start / Remote Access System Installation

CONTENTS

INSTALLATION

VSS Module Installation Security Indicator LED Mounting RMST Kit Antenna Installation RMU Module Installation

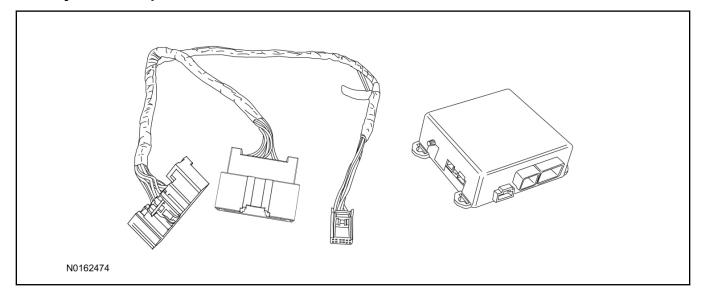
GENERAL PROCEDURES

Learn VSS to vehicle Shock Sensor Sensitivity Adjustment Standard Remote Start Activation RMU Remote Start Activation RMU Activation

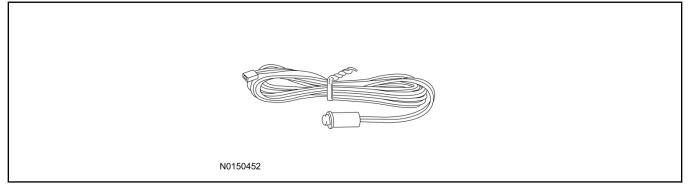
INSTALLATION

Vehicle Security / Remote Start / Remote Access - F-150

VSS System Components



Security Indicator LED (19D596) "Optional"



F-150

1. Verify correct kit number.

Review VSS Kit Contents

NOTE:

Kits are vehicle specific and are not interchangeable.

2. Review the VSS kit contents.

Vehicle Security System (VSS) Kit

QUANTITY	DESCRIPTION
1	VSS Module
1	T-harness

Page 2 of 24

INSTALLATION (Continued)

Vehicle Security System (VSS) Kit(Continued)

6	Tie-straps (not shown)
1	Owner's Manual (not shown)

Security Indicator LED Kit Contents "Optional"

3. Review the Security Indicator LED kit contents.

Security Indicator LED Kit

QUANTITY	DESCRIPTION
1	Security Indicator LED

I. VSS System Installation

ACAUTION:

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

NOTE:

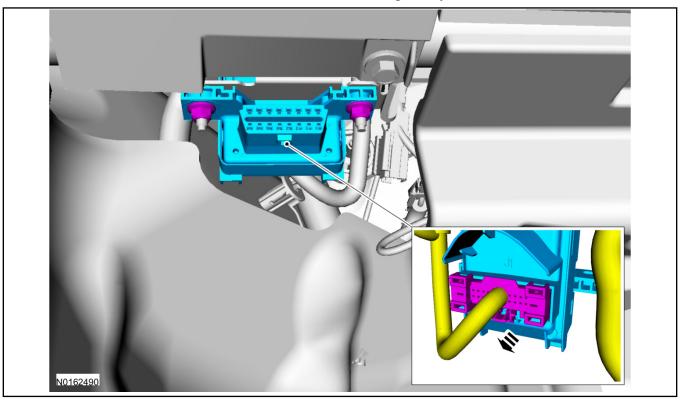
If the VSS kit was installed previously and the vehicle is being upgraded, proceed to the "RMST" or "RMU" upgrade section(s).

- 4. 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.
- 5. Disconnect the vehicle battery negative terminal. For additional information, refer to Workshop Manual (WSM) Section 414-01.

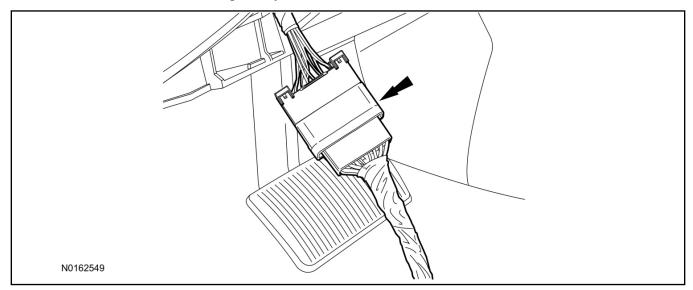
2015 F-150

INSTALLATION (Continued)

6. Disconnect the electrical connector from the back of the gateway module.



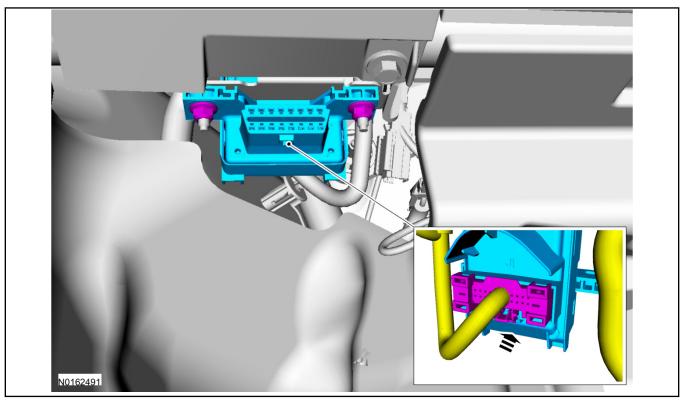
7. Connect the T-harness to the gateway module electrical connector.



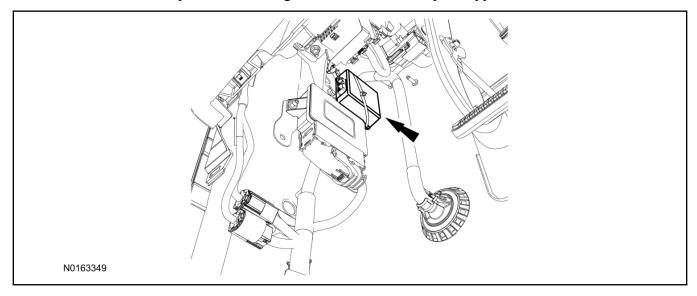
2015 F-150

INSTALLATION (Continued)

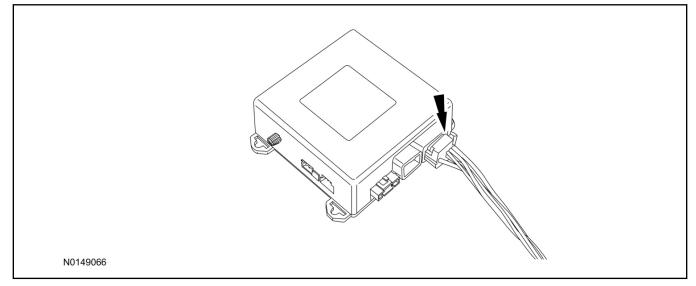
8. Connect T-harness to the back of the gateway module.



- 9. Position the T-harness inside the IP being careful to avoid sharp edges and moving parts.
 - Secure with zip-ties.
- 10. Using a tie-strap, secure the VSS module to the wire harness located above the electronic parking brake module in the upper left corner of the IP.
 - 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.



- 11. Connect the T-harness to the VSS module.
 - Secure the VSS harness with tie-straps.



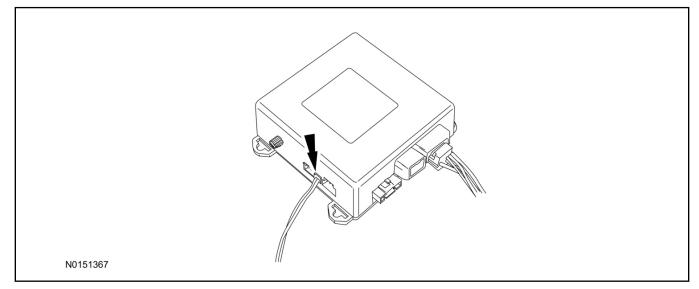
12. Connect the vehicle battery negative terminal. For additional information, refer to WSM Section 414-01.

Optional Security Indicator LED Mounting

[▲] CAUTION: Carefully route and secure LED harness so that it does not interfere with moving parts or linkages.

- 13. 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.
- 14. 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.
- 15. Route the LED wire harness to the VSS module.

- 16. Connect the LED wire harness to the VSS module 2-pin white connector.
 - Secure the LED wire harness with tie-straps.



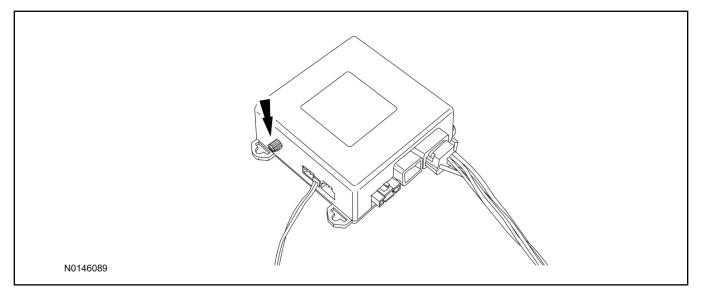
Learn VSS to Vehicle (Key Start Vehicles Only)

- 17. Cycle ignition OFF, ON, OFF one time to learn VSS to the vehicle.
- 18. Use IDS to clear continuous DTCs.
- 19. 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, disconnect the vehicle battery negative terminal, wait five minutes and then reconnect the battery negative terminal. For additional information, refer to Workshop Manual (WSM) Section 414-01.
 - Retest the factory remote start.
 - If the vehicle does not remote start, diagnose the concern.

Shock Sensor Sensitivity Adjustment

NOTE:

The VSS module is equipped with an internal dual zone Shock Sensor. The VSS system will activate a single horn honk/single light flash anytime a light to moderate impact is detected, and a "panic" type 30 second horn honk/light flash 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.



- 20. Starting with the adjustment knob in approximately the halfway position, lower the driver's window and exit the vehicle.
- 21. Press the LOCK button on the vehicle's RKE fob to arm the VSS system. The LED will light solid for 20 seconds and then begin to flash a steady on/off sequence to indicate the system is armed.
- 22. 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 honk and the lights will flash 1 time to indicate the warning impact was detected.
- 23. 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 honk and the lights will flash a steady on off sequence to indicate the heavy or full shock trigger was detected.
- 24. 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:

If installed, observe the LED while performing these tests.

NOTE:

Cycle ignition OFF, ON, OFF before testing.

- 25. 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.
- 26. 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.

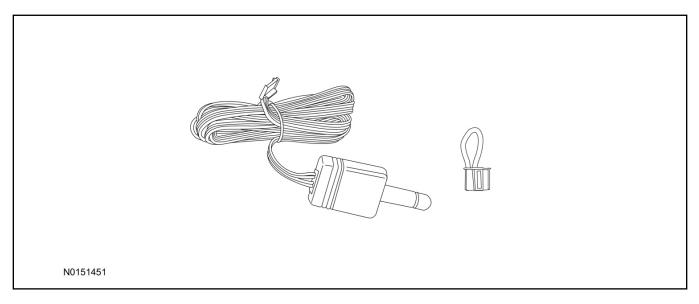
7

- 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.
- 27. 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.
- 28. Test all other vehicle doors, the hood and the trunk in the same manner, by setting off the alarm and disarming with the keyfob.
- 29. Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.

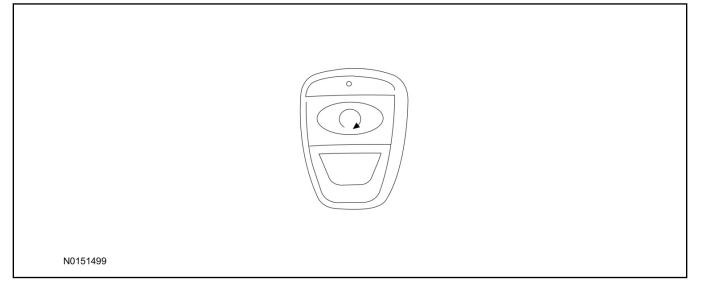
II. Remote Start (RMST) Upgrade - Antenna Kit "Sold Separately"

[▲]CAUTION:

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



Standard Key Fob (15K601) "Sold Separately"



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



Optional RMST Upgrade Components "Sold Separately"

30. Review the RMST Upgrade components.

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

QUANTITY	DESCRIPTION
1	Bi-directional Antenna (15603)
1	Security Jumper (15603)

Standard Key Fob (15K601) "Sold Separately"

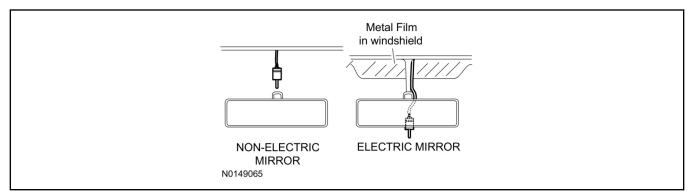
QUANTITY	DESCRIPTION
1	Standard Key Fob (15K601)

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

QUANTITY	DESCRIPTION
1	Bi-directional Key Fob (15K601)

RMST Kit Antenna Installation

- 31. Remove the LH IP side finish panel.
- 32. Clean the antenna mounting surface using an alcohol base solution and a clean cloth.



33. **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.

34. If necessary, position the A-pillar trim slightly outward to provide access to route the antenna wire.

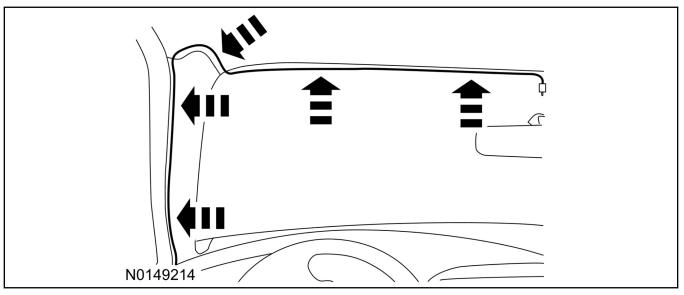
NOTE:

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

- 35. Route the antenna cable along the headliner and down the A-pillar towards the floor. Continue routing the wire into the IP towards the VSS module.
 - Secure with tie-straps.

Vehicle Security/Remote Start/Remote Access

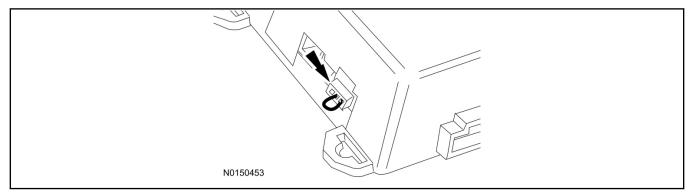
INSTALLATION (Continued)



- 36. Connect the antenna connector to the VSS module.
- 37. Reposition the A-pillar trim panel back, if necessary.
- 38. Install the LH IP side finish panel.

VSS Module - Optional Vehicle Security Features

- 39. Enable/Disable Vehicle Security Features: Locate the security jumper supplied in the kit.
 - Install the jumper to the VSS module if the vehicle security features are to be **disabled**.
 - Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



RMST Activation - Key Start Only

NOTE:

For vehicles equipped with push button start, proceed to "Push Button Start Vehicle" section within the "Programming Key Fobs" section of this manual.

- 40. Cycle ignition OFF, ON, OFF one time to learn RMST to the vehicle.
- 41. Verify that the IDS is updated to the most current version.
- 42. Connect IDS.

- Follow the prompts to select new vehicle session.
- Enter VIN.
- 43. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Module Programming.
 - Select Programmable Parameters.
 - Select Remote Start.

<u>IVD</u> Initialization 3 Exterior Lighting Warning Lamps /		
Remote Start Powertrain		L
		✓ ₩ ¤

- 44. Verify that the instructions on the IDS screen have been completed and continue until you reach the screen below.
 - From this screen, you must select the feature and then select the "Enabled" text (to the right) for these items:
 - Remote Start (BdyCM)
 - Climate Control (IC)
 - Remote Start (IC)
 - Select the feature and then select the "Enabled" text (to the right) for these items if the vehicle includes the optional feature:
 - Driver Seat (IC)
 - Passenger Seat (IC)
 - Rear Defrost (IC)

• Steering Wheel Control - (IC)

NOTE:

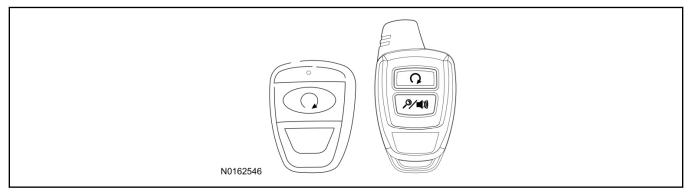
The Steering Wheel Control item refers to the heated steering wheel feature. The Driver Seat and Passenger Seat items refer to climate controlled seating.

• Once all appropriate items have been enabled, select the Tick button to direct IDS to enable the remote start option on the vehicle.

Remote Start - (BdyCM) = Disabled Climate Control - (IC) = Disabled Driver Seat - (IC) = Disabled Remote Start - (IC) = Disabled Passenger Seat - (IC) = Disabled Rear Defrost - (IC) = Disabled Steering wheel control - (IC) = Disabled	Disabled * Enabled	

- 45. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Advanced Settings.
 - Select Vehicle.
 - Select Remote Start
 - Verify that the Remote Start system is checked.
- 46. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Programming Key Fobs



47. Key Start Vehicles:

NOTE:

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

- 1 Start with doors unlocked
- 2 Driver's door open (remaining open throughout)
- 3 Verify that the gearshift lever is in the "PARK" position.
- 4 Depress and hold brake pedal.
- 5 Start with ignition key OFF.
- 6 Cycle ignition key to the ON then OFF position 5 times, then back to the ON position a 6th time.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 7 Press the START button on each transmitter you wish to program. The horn will honk 1 time each time the START button is pressed to indicated the transmitter has been learned.
- 8 Cycle ignition key to the OFF position to exit transmitter learn mode.
- **9 NOTE:**

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

48. Push Button Start Vehicles:

NOTE:

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

NOTE:

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

- 1 Open door and press unlock.
- 2 Enter the vehicle with the vehicle key(s) and key fobs you wish to program.

- 3 Depress and hold brake pedal.
- 4 Press the start/stop button.
- 5 After the vehicle starts, press the start/stop button to shut down.
- 6 Repeat steps 3 and 4 an additional five times, ending in ignition ON, engine ON.
- 7 Release the brake pedal, the horn should honk 3 times.
- 8 Press the start stop/button on each fob you wish to program. The horn should honk each time the button is pressed to indicate the transmitter has been programmed.
- 9 Cycle ignition to the OFF position to exit transmitter learn mode.

10 NOTE:

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

RMST Functional Test

NOTE:

Do not put a key in the ignition for the following steps.

- 49. Make sure the shift lever is in PARK and the ignition is in the OFF position. Remove all keys from the vehicle.
- 50. Close the hood.
- 51. Close all of the vehicle doors.
- 52. Start the vehicle by pressing the remote start button twice on the remote start key fob.
- 53. Confirm the remote start works with the vehicle in park and with the hood and doors closed.
- 54. Open the hood.
- 55. Confirm the engine shuts off.
- 56. **NOTE:**

Vehicle doors should be closed while performing this step.

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

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

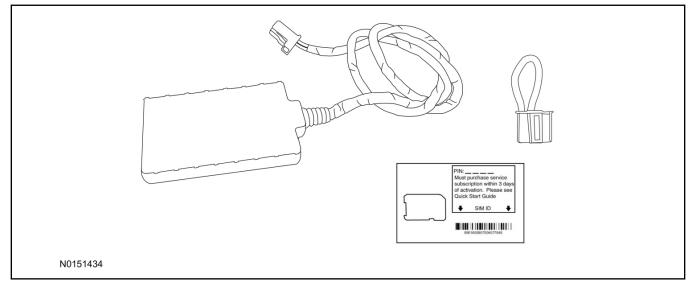
57. See the Scalable Remote Start System Diagnosis Guide to resolve issues identified by the functional test.

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III. Remote Access (RMU) Upgrade "Sold Separately"

NOTE:

VSS must be learned to vehicle prior to installing remote access on key start equipped vehicles.



58. Review the RMU upgrade components.

Optional Components — Remote Access (RMU) Upgrade "Sold Separately"

QUANTITY	DESCRIPTION	
1	Remote Messaging Unit (RMU)	
1	SIM Card Carrier	
1	Security Jumper	
5	Tie Wraps (not shown)	

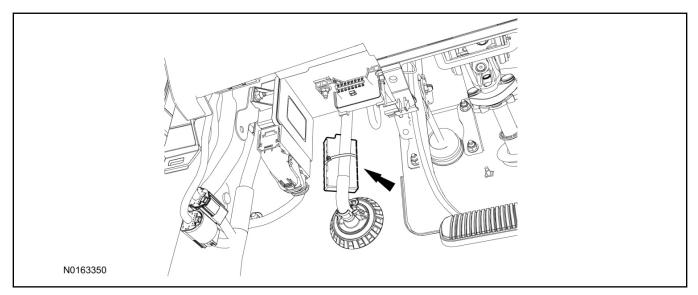
▲ CAUTION:

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

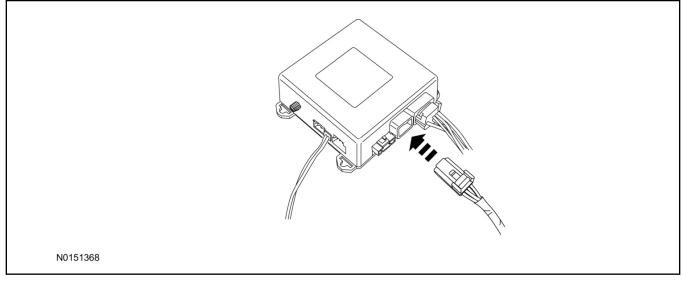
NOTE:

For proper range of operation, the RMU must be installed as shown in the diagram below.

59. Using a tie-strap secure the RMU to the main bulkhead wire harness.



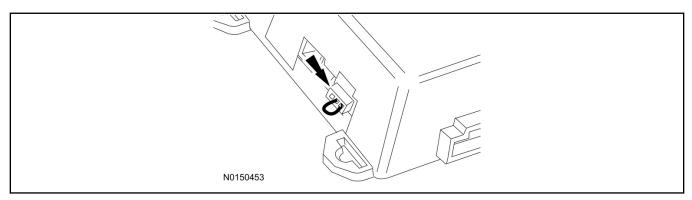
- 60. Connect the RMU electrical connector to the VSS module.
 - Secure the harness with tie-straps.



VSS Module - Optional Vehicle Security Features

- 61. Enable/Disable Vehicle Security Features: Locate the security jumper supplied in the kit.
 - Install the jumper to the VSS module if the vehicle security features are to be disabled.
 - Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.

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Remote Start Activation - Key Start Vehicles (Without Factory Remote Start)

- 62. Cycle ignition OFF, ON, OFF one time to learn RMST to the vehicle.
- 63. Verify that the IDS is updated to the most current version.
- 64. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.
- 65. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Module Programming.
 - Select Programmable Parameters.
 - Select Remote Start.

Programmable Module Installation		
Module Reprogramming		
Programmable Parameters	Transmission	
As-Built	Passenger Seat Weight Sensor ReZero	
	IVD Initialization Sequence	
	Exterior Lighting	
	Warning Lamps / Chimes Remote Start	
	Powertrain	
	- Owerdam	
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2015 F-150

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INSTALLATION (Continued)

- 66. Verify that the instructions on the IDS screen have been completed and continue until you reach the screen below.
 - From this screen, you must select the feature and then select the "Enabled" text (to the right) for these items:
 - Remote Start (BdyCM)
 - Climate Control (IC)
 - Remote Start (IC)
 - Select the feature and then select the "Enabled" text (to the right) for these items if the vehicle includes the optional feature:
 - Driver Seat (IC)
 - Passenger Seat (IC)
 - Rear Defrost (IC)
 - Steering Wheel Control (IC)

NOTE:

The Steering Wheel Control item refers to the heated steering wheel feature. The Driver Seat and Passenger Seat items refer to climate controlled seating.

• Once all appropriate items have been enabled, select the Tick button to direct IDS to enable the remote start option on the vehicle.

Remote Start - (BdyCM) = Disabled		
Climate Control - (IC) = Disabled		
Driver Seat - (IC) = Disabled	Disabled *	
Remote Start - (IC) = Disabled	Enabled	
Passenger Seat - (IC) = Disabled		
Rear Defrost - (IC) = Disabled		
Steering wheel control - (IC) = Disabled		(i)
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67. For vehicles equipped with standard message center, verify that the remote start option now appears.

- Using the Select and Arrow buttons on the steering wheel, select Settings.
- Select Advanced Settings.
- Select Vehicle.
- Select Remote Start.
- Verify that the Remote Start system is checked.
- 68. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

RMU Activation

NOTE:

Please note that the Remote Access application that is used to start the vehicle for this RMST kit will only work with iPhone and Android phones.

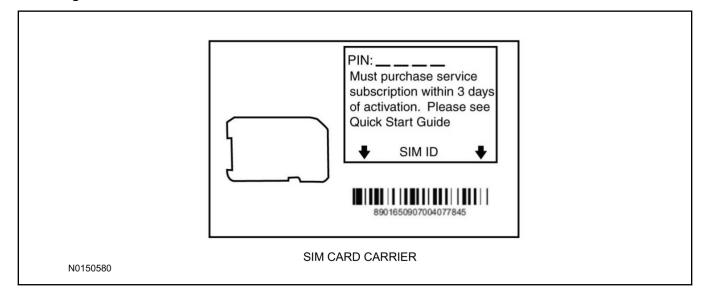
- 69. For RMU activation the following information from the customer is recommended to provide them with electronic notification for app retrieval:
 - 1 Email Address
 - 2 Cell Phone Number
 - 3 Cell Phone Carrier Company
- 70. Log on to your Professional Technician Society (PTS) account and enter the vehicle information.
 - 1 Select "Vehicle Id".
 - 2 Select "By Year & Model"
 - 3 Choose the year & model of the vehicle and then select "GO".
 - 4 Hover over the "Workshop" tab.
 - 5 Select the "Accessory Installation" menu item.
 - 6 Under the "Electrical" heading, select the "Remote Access Activation" link (first time users will need to agree to terms & conditions).
 - 7 Select the "Install or Diagnose" link.

NOTE:

If you are not directed to the screen shown below (or user agreement screen for first time users), make sure your internet browser zone settings are set to medium. This setting can be found in your browsers "internet options" under the "privacy" tab.

CUSCON accessories ()	LOG OUT
DEALER TOOLS	
Install or Push Diagnose Mobile App	
DOCUMENTATION & MANUALS	
Generation of acces	
N0150870	

71. Once on the "Install" page, enter the SIM ID code that was provided with the RMST kit. Select "Begin or Continue Installation".



72. Click on the "On screen steps 1-6", and follow the on screen instructions to complete the installation.



Vehicle Security/Remote Start/Remote Access

2015 F-150 INSTALLATION (Continued)

NOTE:

The following step will complete the activation process, when you are directed to a screen similar to the one below ensure the correct vehicle brand is selected and that all applicable features are enabled.

NOTE:

The "perimeter" and "shock" settings below are optional features and should only be selected when security features are enabled.

NOTE:

On screen Step 3 shown below.

Installation Details			
Brand	Ford 💌		
Security Features	2 Requery		
☑ Start			
🗹 Stop			
🔽 Lock			
🔽 Unlock			
🗹 Car Finder			
Perimeter			
Shock			
Neturn			Continue
N0150305			

73. **NOTE:**

On screen Step 4 shown below.

Perform a functional check of the system by testing each of the available features.

- Start/Stop function
- Lock/Unlock function
- Car finder
- Signal (for troubleshooting only)

Session Status		Yes							
Session Status	-	res							
Network Connecti	on 🖌	Yes							
IP Assigned	+	10.64.17.	233						
Comm Establishe	4	Yes							
Received IMEI		35890104	1730422						
Received ESN	*	16630001	17						
				ould like to test the		ons of the	e module, ya	ou can do so l	below.
Start U	stop	LOCK	Unlock	U Car Finder	Signal				

NOTE:

All tests above must be completed in order to move to the next step. If any of the listed functions fail, move the vehicle to an outside location and retest.

Key Start Vehicles Only

NOTE:

In the event start or stop fail, refer to the "Remote Start Activation" section in this manual.

NOTE:

In the event lock/unlock or car find fail, refer to the "Learn VSS to Vehicle" section in this manual.

All Vehicles

- 74. Once the hardware installation and RMU activation process is complete, record the 4-digit PIN on the SIM card carrier. Provide the SIM card carrier to the customer so they can add this system to their Remote Access Account. Customer must have both the 4-digit PIN and SIM ID to activate/add their vehicle to their Remote Access Account.
- 75. If the customer agrees, you may push the mobile application to the customer. You will need the customer's phone number and cellular carrier. If the customer opts to install the application themselves, they can locate it in their mobile app store.

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

Vehicle Security / Remote Start / Remote Access System Installation

CONTENTS

INSTALLATION

VSS Module Installation Security Indicator LED Mounting TPM Antenna Kit Installation RMST Kit Antenna Installation RMU Module Installation GENERAL PROCEDURES Learn VSS to vehicle Shock Sensor Sensitivity Adjustment Standard Remote Start Activation

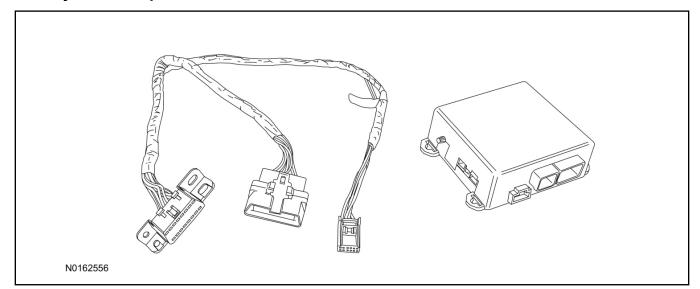
RMU Remote Start Activation

RMU Activation

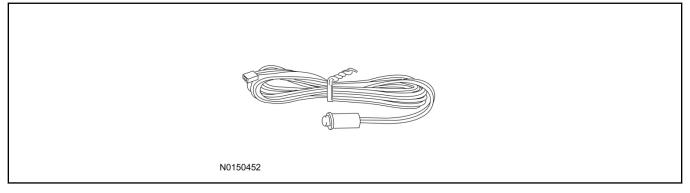
INSTALLATION

Vehicle Security / Remote Start / Remote Access - Flex

VSS System Components



Security Indicator LED (19D596) "Optional"



Flex

1. Verify correct kit number.

Review VSS Kit Contents

NOTE:

Kits are vehicle specific and are not interchangeable.

2. Review the VSS kit contents.

Vehicle Security System (VSS) Kit

QUANTITY	DESCRIPTION
1	VSS Module
1	T-harness

2013-2015 Flex

INSTALLATION (Continued)

Vehicle Security System (VSS) Kit(Continued)

6	Tie-straps
1	Owner's Manual

Security Indicator LED Kit Contents "Optional"

3. Review the Security Indicator LED kit contents.

Security Indicator LED Kit

QUANTITY	DESCRIPTION
1	Security Indicator LED

I. VSS System Installation

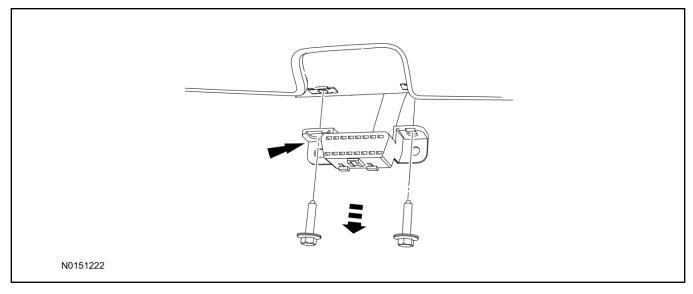
[▲]CAUTION:

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

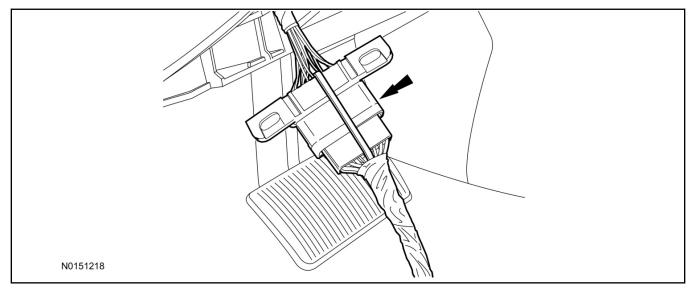
NOTE:

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

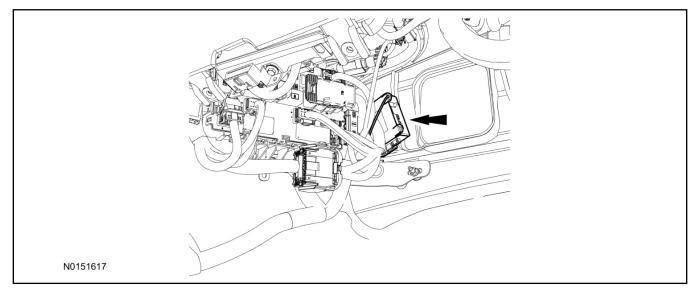
4. Remove the 2 bolts and remove the OBD II port from the IP frame.



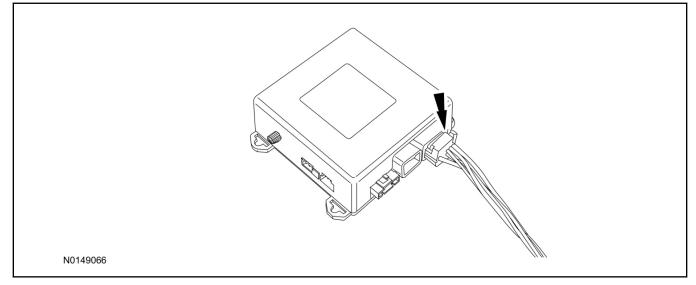
- 5. Connect the VSS T-harness to the OBD II port.
 - Secure the T-harness to the OBD II port using a tie-strap.



- 6. Position the VSS harness inside the IP being careful to avoid sharp edges and moving parts.
- 7. Install the new VSS harness OBD II port to the IP frame and install the bolts.
 - Do not over tighten.
- 8. Position the VSS module on top of the Body Control Module (BCM) and secure to wire harness with tie-straps.
 - 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.



- 9. Connect the VSS harness to the VSS module.
 - Secure the VSS harness with tie-straps.



Optional Security Indicator LED Mounting

[▲]CAUTION:

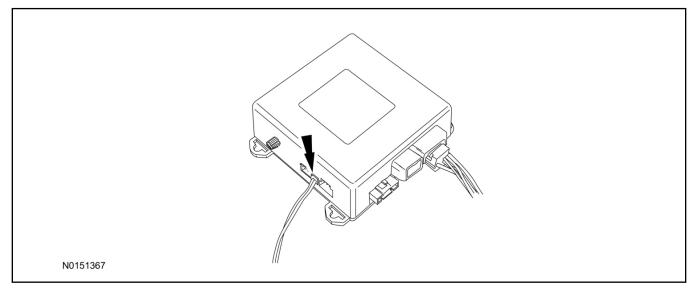
Carefully route and secure module and harnesses so that they do not interfere with moving parts or linkages.

- 10. 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.
- 11. 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.
- 12. Route the LED wire harness to the VSS module.

5

INSTALLATION (Continued)

- 13. Connect the LED wire harness to the VSS module 2-pin white connector.
 - Secure the LED wire harness with tie-straps.



Learn VSS to Vehicle (Push Button Start Vehicles Only)

14. Cycle door locks at trim switch four times to learn remote start keyless functions.

Learn VSS to Vehicle (Key Start Vehicles Only)

NOTE:

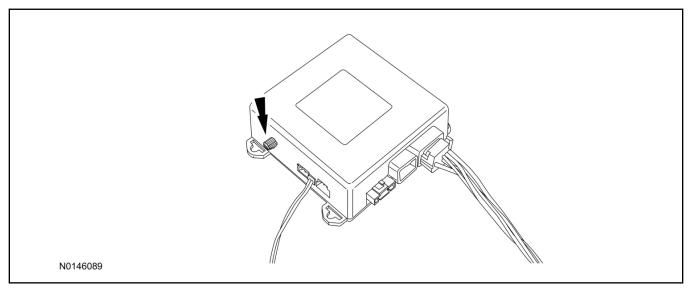
Make sure the brake pedal is not depressed during this sequence.

- 15. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 16. Put the key in the ignition.
- 17. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 18. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 19. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

Shock Sensor Sensitivity Adjustment

NOTE:

The VSS module is equipped with an internal dual zone Shock Sensor. The VSS system will activate a single horn honk/single light flash anytime a light to moderate impact is detected, and a "panic" type 30 second horn honk/light flash 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.



- 20. Starting with the adjustment knob in approximately the halfway position, lower the driver's window and exit the vehicle.
- 21. Press the LOCK button on the vehicle's RKE fob to arm the VSS system. The LED will light solid for 20 seconds and then begin to flash a steady on/off sequence to indicate the system is armed.
- 22. 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 honk and the lights will flash 1 time to indicate the warning impact was detected.
- 23. 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 honk and the lights will flash a steady on off sequence to indicate the heavy or full shock trigger was detected.
- 24. 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:

If installed, observe the LED while performing these tests.

25. 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.

2013-2015 Flex INSTALLATION (Continued)

- 26. 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.
- 27. 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.
- 28. Test all other vehicle doors, the hood and the trunk in the same manner, by setting off the alarm and disarming with the keyfob.
- 29. Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.

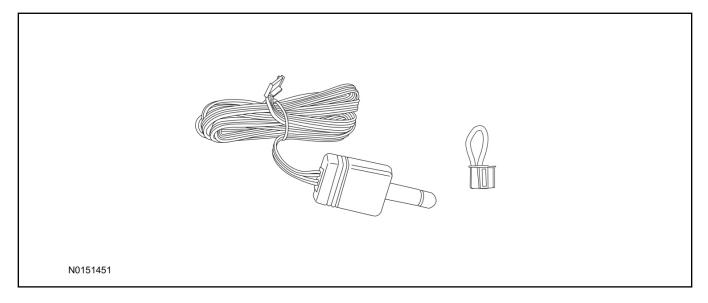
II. Remote Start (RMST) Upgrade - Antenna Kit "Sold Separately"

[▲]CAUTION:

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

NOTE:

Verify that the vehicle has a hood switch Installed. If the vehicle is not equipped with a hood switch refer to "**Hood Switch Kit - Sold Separately**".

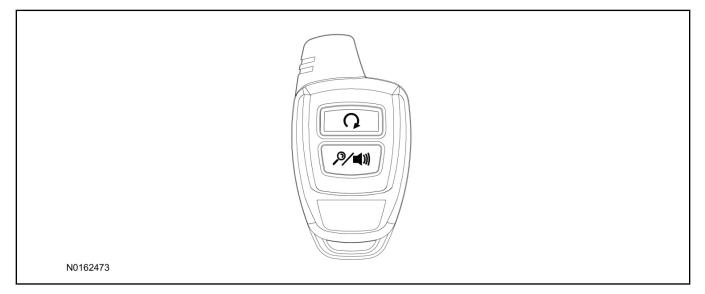


Standard Key Fob (15K601) "Sold Separately"

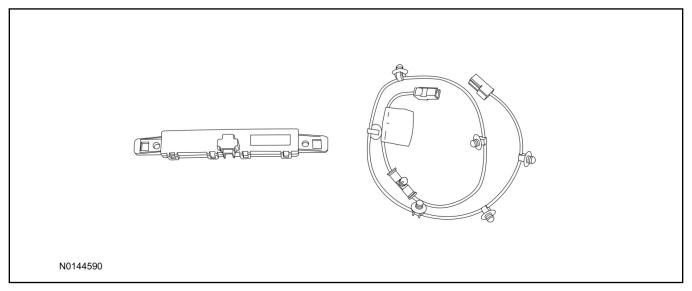


N0151499

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



TPM Antenna Kit Components "Sold Separately"



Optional RMST Upgrade Components "Sold Separately"

30. Review the RMST Upgrade components.

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

QUANTITY	DESCRIPTION
1	Bi-directional Antenna (TBD)
1	Security Jumper (TBD)

Standard Key Fob (15K601) "Sold Separately"

QUANTITY	DESCRIPTION
1	Standard Key Fob (15K601)

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

QUANTITY	DESCRIPTION
1	Bi-directional Key Fob (15K601)

TPM Antenna Kit Components "Sold Separately"

NOTE:

The TPM antenna Kit is only required if the vehicle is not equipped with Factory remote start.

31. Review the TPM antenna kit contents.

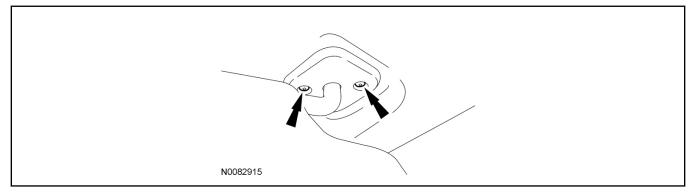
TPM Antenna Kit

QUANTITY	DESCRIPTION
1	Antenna Module
1	Antenna Jumper Wire
1	2-sided Tape (not shown)

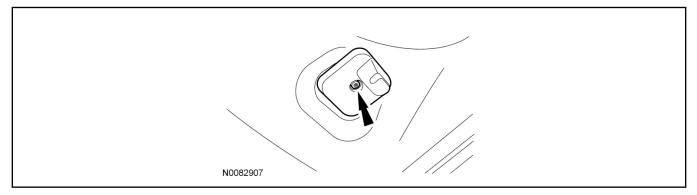
2013-2015 Flex INSTALLATION (Continued)

Trim Removal

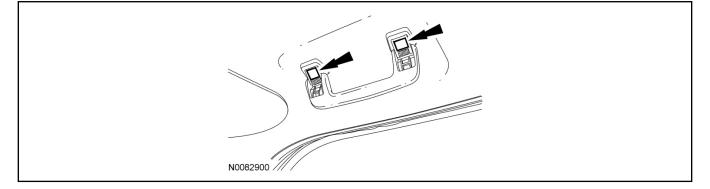
- 32. Remove the RH A-Pillar and RH B-pillar trim panels. For additional information, refer to Workshop Manual (WSM), Section 501-05.
- 33. If equipped, remove the DVD entertainment system. For additional information, refer to WSM, Section 415-00.
- 34. Remove the RH sun visor retainer screws and lower the RH sun visor.



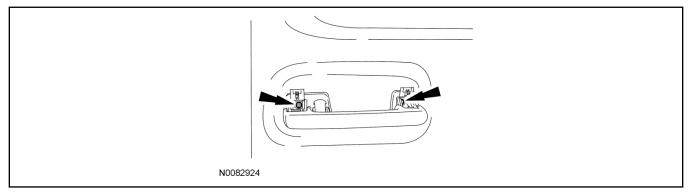
35. Remove the RH sun visor clip retainer screws and remove the sun visor clip.



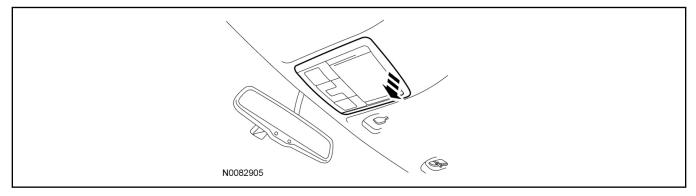
36. Open the RH front assist handle screw covers.



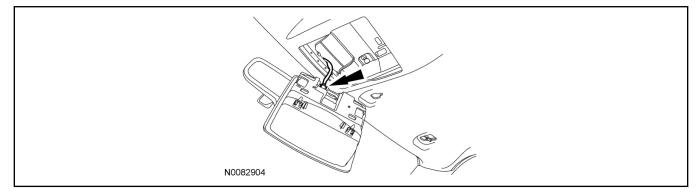
- 37. Remove the RH front assist handle screws and remove the front assist handle.
 - If equipped, disconnect the assist handle lamp electrical connector.



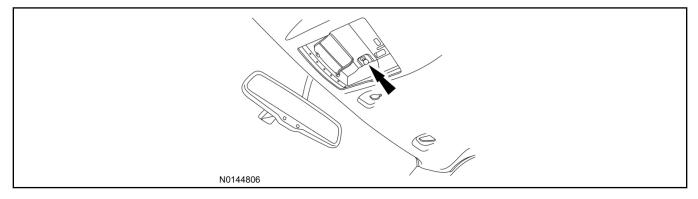
38. Pull downward on the overhead console to release the retainer clips.



39. Disconnect the overhead console electrical connector(s) and remove the overhead console.



40. Remove the headliner push pin retainer.

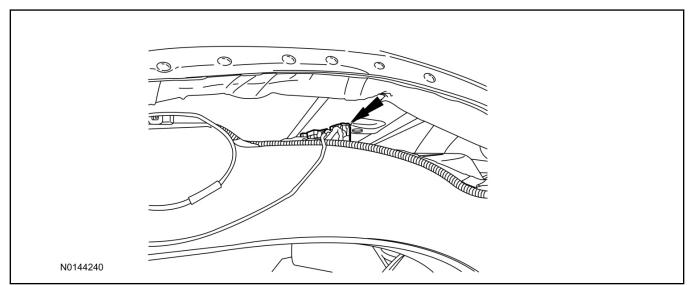


TPM Antenna Kit Installation

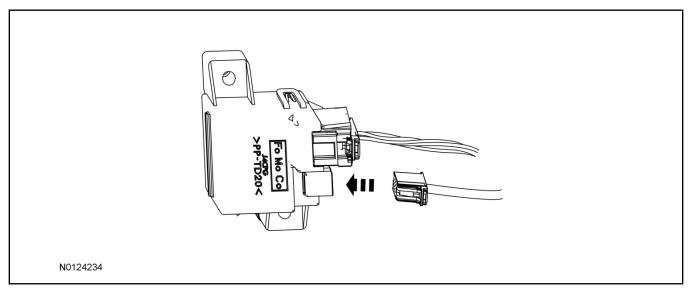
41. NOTICE:

Use caution not to over extend the headliner as creases and/or damage to the headliner may occur.

Position the RH front portion of the headliner downward slightly to access the Tire Pressure Monitor (TPM) module.



42. Connect the antenna jumper wire to the TPM module.



- 43. Connect the antenna jumper wire connector to the antenna module.
 - The push pins on the antenna jumper wire are not used for this application.

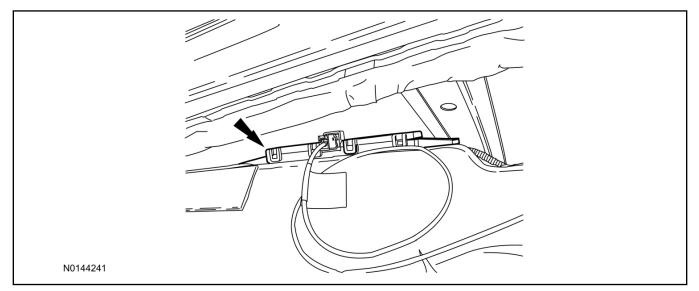
2013-2015 Flex INSTALLATION (Continued)

44. **NOTE:**

View is top of headliner.

Secure the antenna module to the headliner using a suitable adhesive.

• Alternatively 2-sided tape may be used to secure the antenna module to the headliner.



RMST Kit Antenna Installation

- 45. Remove the LH IP side trim panel.
- 46. Clean the antenna mounting surface using an alcohol base solution and a clean cloth.

47. NOTE:

Do not touch the adhesive, reduced adhesion may result.

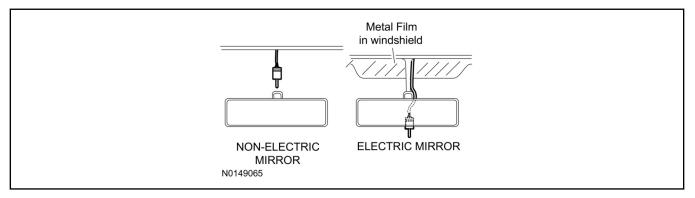
NOTE:

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.



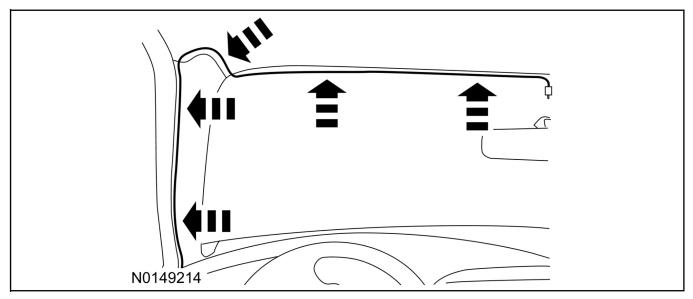
2013-2015 Flex INSTALLATION (Continued)

14

NOTE:

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

- 48. 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.



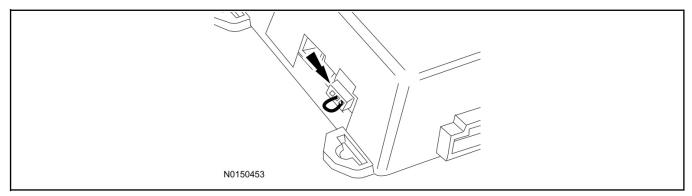
- 49. Connect the antenna connector to the VSS module.
- 50. If the RMST kit will not be upgraded to RMU functions at this time, install the LH IP side trim panel.

Trim Installation

- 51. Install the headliner push pin retainer.
- 52. Connect the overhead console electrical connector(s) and install the overhead console.
- 53. Install the RH front assist handle and screws.
 - If equipped, connect the assist handle lamp electrical connector.
- 54. Close the assist handle screw covers.
- 55. Install the sun visor clips and the sun visor clip retainer screws.
- 56. Position the RH sun visor and install the retainer screws.
- 57. Install the RH A-Pillar and RH B-pillar trim panels. For additional information, refer to WSM, Section 501-05.
- 58. If equipped, install the DVD entertainment system. For additional information, refer to WSM, Section 415-00.

VSS Module - Optional Vehicle Security Features

- 59. Enable/Disable Vehicle Security Features: Locate the security jumper supplied in the kit.
 - Install the jumper to the VSS module if the vehicle security features are to be disabled.
 - Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



RMST Activation - Key Start Only

NOTE:

For vehicles equipped with push button start, proceed to Step 72 within the "Programming Key Fobs" section of this manual.

- 60. Verify that the IDS is updated to the most current version.
- 61. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.
- 62. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Body.
 - Select Security.
 - Select Remote Start.
 - Verify that the information on the IDS screen is correct and all procedures have been followed.
 - Select Yes. This will enable the remote start function on the vehicle.
- 63. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.
- 64. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Learn Remote Start to Vehicle (Push Button Start Vehicles Only)

65. Cycle door locks at trim switch four times to learn remote start keyless functions.

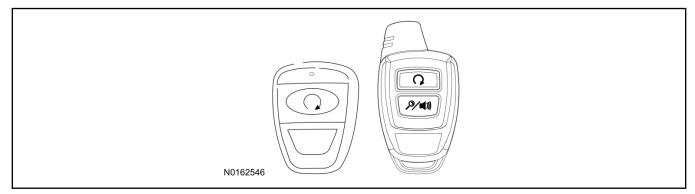
Learn Remote Start to Vehicle (Key Start Vehicles Only)

NOTE:

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

- 66. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 67. Put the key in the ignition.
- 68. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 69. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 70. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

Programming Key Fobs



71. Key Start Vehicles:

NOTE:

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

- 1 Start with doors unlocked
- 2 Driver's door open (remaining open throughout)
- 3 Verify that the gearshift lever is in the "PARK" position.
- 4 Depress and hold brake pedal.

- 5 Start with ignition key OFF.
- 6 Cycle ignition key to the ON then OFF position 5 times, then back to the ON position a 6th time.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 7 Press the START button on each transmitter you wish to program. The horn will honk 1 time each time the START button is pressed to indicated the transmitter has been learned.
- 8 Cycle ignition key to the OFF position to exit transmitter learn mode.

9 NOTE:

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

72. Push Button Start Vehicles:

NOTE:

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

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.
- 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 four times, ending in ignition on, engine off.
- 6 Release the brake pedal.
- 7 Press the vehicle start/stop button twice to turn ignition on.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 8 Press the start stop button on each fob you wish to program.
- 9 Cycle ignition to the OFF position to exit transmitter learn mode.

10 **NOTE:**

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

RMST Functional Test

NOTE:

Do not put a key in the ignition for the following steps.

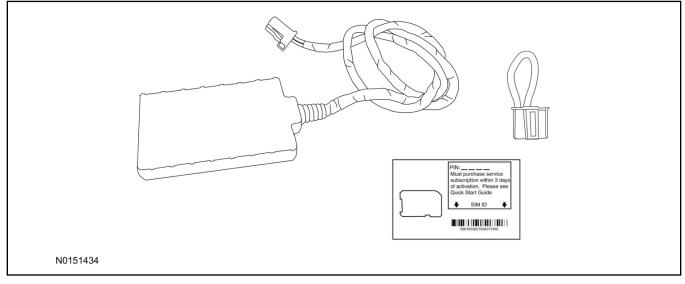
- 73. Make sure the shift lever is in PARK and the ignition is in the OFF position. Remove all keys from the vehicle.
- 74. Close the hood.
- 75. Close all of the vehicle doors.
- 76. Start the vehicle by pressing the remote start button twice on the remote start key fob.
- 77. Confirm the remote start works with the vehicle in park and with the hood and doors closed.
- 78. Open the hood.
- 79. **NOTE:**

Vehicle doors should be closed while performing this step.

Confirm that the vehicle will not start with the hood open. Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.

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

III. Remote Access (RMU) Upgrade "Sold Separately"



81. Review the RMU upgrade components.

Optional Components — Remote Access (RMU) Upgrade "Sold Separately"

QUANTITY	DESCRIPTION
1	Remote Messaging Unit (RMU)
1	SIM Card Carrier
1	Security Jumper

CAUTION:

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

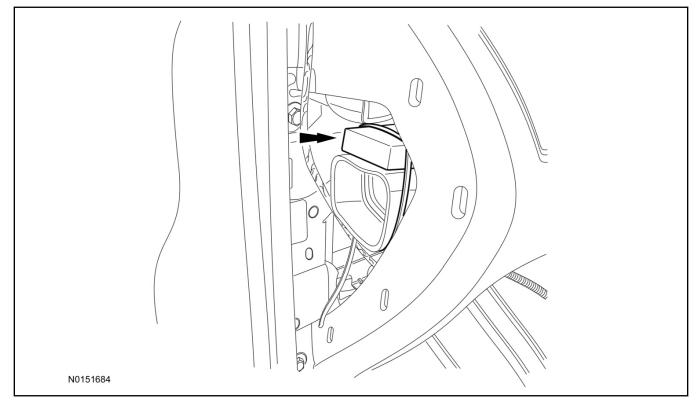
2013-2015 Flex INSTALLATION (Continued)

(

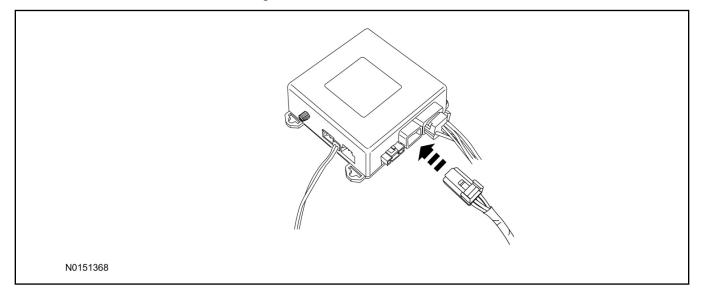
NOTE:

For proper range of operation, the RMU must be installed as shown in the diagram below.

- 82. If previously installed, remove the LH IP side trim panel.
- 83. Using tie-straps secure the RMU to the A/C duct near the LH IP side trim panel opening.



- 84. Connect the RMU electrical connector to the VSS module.
 - Secure the harness with tie-straps.



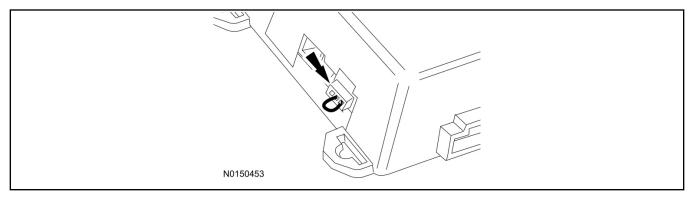
85. Install the LH IP side trim panel.

VSS Module - Optional Vehicle Security Features

86. Enable/Disable Vehicle Security Features:

Locate the security jumper supplied in the kit.

- Install the jumper to the VSS module if the vehicle security features are to be disabled.
- Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



Remote Start Activation - Key Start Vehicles (Without Factory Remote Start)

- 87. Verify that the IDS is updated to the most current version.
- 88. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.
- 89. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Body.
 - Select Security.
 - Select Remote Start.
 - Verify that the information on the IDS screen is correct and all procedures have been followed.
 - Select Yes. This will enable the remote start function on the vehicle.
- 90. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.

- 91. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Learn Remote Start to Vehicle (Push Button Start Vehicles Only)

92. Cycle door locks at trim switch four times to learn remote start keyless functions.

Learn Remote Start to Vehicle (Key Start Vehicles Only)

NOTE:

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

- 93. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 94. Put the key in the ignition.
- 95. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 96. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 97. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

RMU Activation

NOTE:

Please note that the Remote Access application that is used to start the vehicle for this RMST kit will only work with iPhone and Android phones.

- 98. For RMU activation the following information from the customer is recommended to provide them with electronic notification for app retrieval:
 - 1 Email Address
 - 2 Cell Phone Number
 - 3 Cell Phone Carrier Company

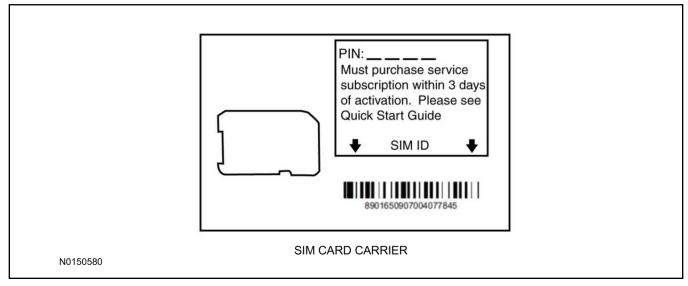
- 99. Log on to your Professional Technician Society (PTS) account and enter the vehicle information.
 - 1 Select "Vehicle Id".
 - 2 Select "By Year & Model"
 - 3 Choose the year & model of the vehicle and then select "GO".
 - 4 Hover over the "Workshop" tab.
 - 5 Select the "Accessory Installation" menu item.
 - 6 Under the "Electrical" heading, select the "Remote Access Activation" link (first time users will need to agree to terms & conditions).
 - 7 Select the "Install or Diagnose" link.

NOTE:

If you are not directed to the screen shown below (or user agreement screen for first time users), make sure your internet browser zone settings are set to medium. This setting can be found in your browsers "internet options" under the "privacy" tab.

HOME DEALER TOOLS	
DEALER TOOLS	
Install or Diagnose Mobile App	
DOCUMENTATION & MANUALS • No documentation available	
N0150870	

100.Once on the "Install" page, enter the SIM ID code that was provided with the RMST kit. Select "Begin or Continue Installation".



101.Click on the "On screen steps 1-6", and follow the on screen instructions to complete the installation.



2013-2015 Flex INSTALLATION (Continued)

NOTE:

The following step will complete the activation process, when you are directed to a screen similar to the one below ensure the correct vehicle brand is selected and that all applicable features are enabled.

NOTE:

The "perimeter" and "shock" settings below are optional features and should only be selected when security features are enabled.

Installation Details			
Brand	Ford 💌		
Security Features	2 Requery		
Start			
Stop			
V Lock			
Unlock			
🗹 Car Finder			
Perimeter			
Shock			
Neturn			► Continue
N0150305			

2013-2015 Flex

INSTALLATION (Continued)

102.Perform a functional check of the system by testing each of the available features.

- Start/Stop function
- Lock/Unlock function
- Car finder
- Signal (for troubleshooting only)

Session Status ✓ Network Connection ✓ Yes IP Assigned ✓ 10.64.17.233 Comm Established ✓ Yes Received IMEI ✓ 358901041730422 Received ESN ✓ 1663000117 Your install has been tested successfully. If you would like to test the physical functions of the module, you can do so below. Start 😨 Stop Lock 😨 Unlock 😨 Car Finder 😨 Signal Continue	Installation Test									
IP Assigned ID.54.17.233 Comm Established Yes Received IMEI 358901041730422 Received ESN 1663000117 Your install has been tested successfully. If you would like to test the physical functions of the module, you can do so below. Image: Start image: Stop image: Stop image: Stop image: Start image: Stop im	Session Status	4	Yes							
Comm Established vers Received IMEI vers Received ESN for 1663000117 Your install has been tested successfully. If you would like to test the physical functions of the module, you can do so below.	Network Connection	n 🖌	Yes							
Received IMEI Image: Start image: Stop image	IP Assigned	+	10.64.17.233							
Received ESN Vour install has been tested successfully. If you would like to test the physical functions of the module, you can do so below.	Comm Established		Yes							
Your install has been tested successfully. If you would like to test the physical functions of the module, you can do so below.	Received IMEI		35890104173042	2						
🐼 Start 🐼 Stop 🕼 Lock 🕼 Unlock 🕼 Car Finder 🎯 Signal	Received ESN		1663000117							
	Your install has be	en tes	ted successfully. I	f you wo	uld like to test the	physical functi	ons of the mod	lule, you can	do so below.	
➢ Return	Chard Con		Quert Qu	Interate	Cas Finder	Cincal				
2 Return	😨 Start 😨 St	top	🕲 Lock 🔞 U	nlock	Car Finder	🕑 Signal				
		top	🕹 Lock 🧕 U	nlock	Car Finder	🌚 Signal				

2013-2015 Flex INSTALLATION (Continued)

NOTE:

All tests above must be completed in order to move to the next step. If any of the listed functions fail, move the vehicle to an outside location and retest.

Key Start Vehicles Only

NOTE:

In the event start or stop fail, refer to the "Remote Start Activation" section in this manual.

NOTE:

In the event lock/unlock or car find fail, refer to the "Learn Remote Start System to Vehicle" section in this manual.

All Vehicles

- 103.Once the hardware installation and RMU activation process is complete, record the 4-digit PIN on the SIM card carrier. Provide the SIM card carrier to the customer so they can add this system to their Remote Access Account. Customer must have both the 4-digit PIN and SIM ID to activate/add their vehicle to their Remote Access Account.
- 104. If the customer agrees, you may push the mobile application to the customer. You will need the customer's phone number and cellular carrier. If the customer opts to install the application themselves, they can locate it in their mobile app store.

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

Vehicle Security / Remote Start / Remote Access System Installation

CONTENTS

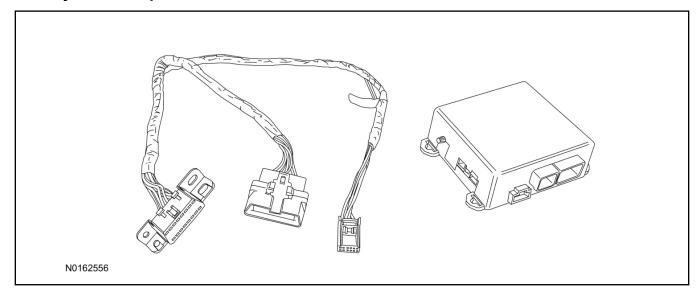
VEHICLE PREPARATION Hood Switch Installation INSTALLATION VSS Module Installation Security Indicator LED Mounting TPM Antenna Kit Installation RMST Kit Antenna Installation RMU Module Installation GENERAL PROCEDURES Learn VSS to vehicle

Shock Sensor Sensitivity Adjustment Standard Remote Start Activation RMU Remote Start Activation RMU Activation

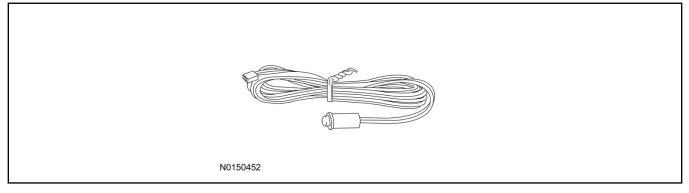
INSTALLATION

Vehicle Security / Remote Start / Remote Access - Super Duty

VSS System Components



Security Indicator LED (19D596) "Optional"



Super Duty

1. Verify correct kit number.

Review VSS Kit Contents

NOTE:

Kits are vehicle specific and are not interchangeable.

2. Review the VSS kit contents.

Vehicle Security System (VSS) Kit

QUANTITY	DESCRIPTION		
1	VSS Module		
1	T-harness		

Vehicle Security System (VSS) Kit(Continued)

6	Tie-straps	
1	Owner's Manual	

Security Indicator LED Kit Contents "Optional"

3. Review the Security Indicator LED kit contents.

Security Indicator LED Kit

QUANTITY	DESCRIPTION	
1	Security Indicator LED	

I. VSS System Installation

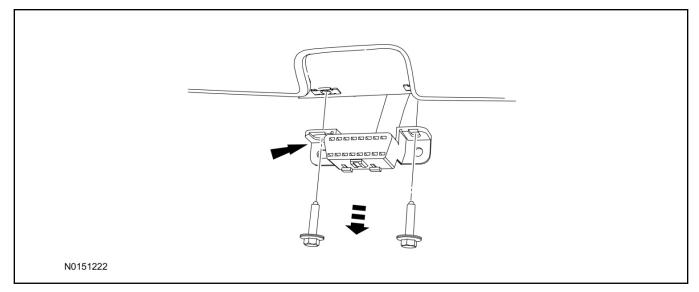
[▲]CAUTION:

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

NOTE:

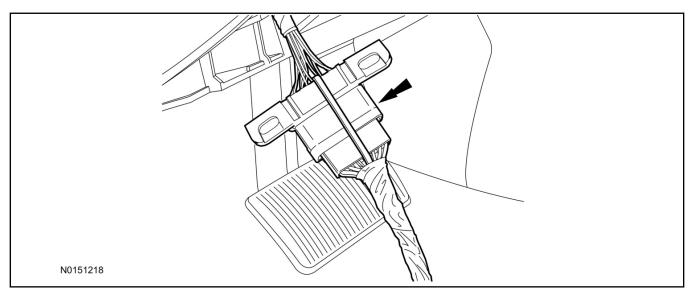
If the VSS kit was installed previously and the vehicle is being upgraded, proceed to the "RMST" or "RMU" upgrade section(s).

4. Remove the 2 bolts and remove the OBD II port from the IP frame.

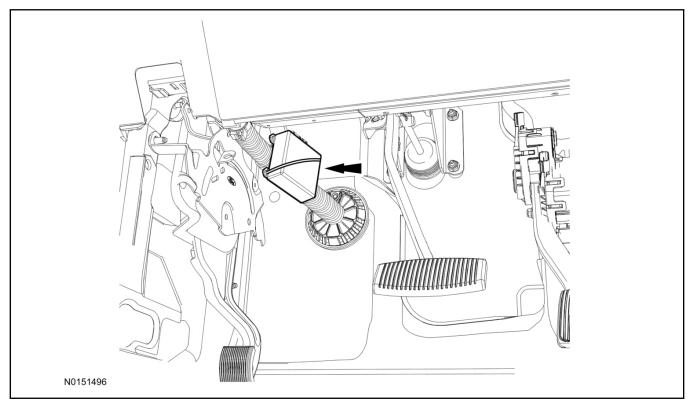


- 5. Connect the VSS T-harness to the OBD II port.
 - Secure the T-harness to the OBD II port using a tie-strap.

2011-2015 Super Duty INSTALLATION (Continued)

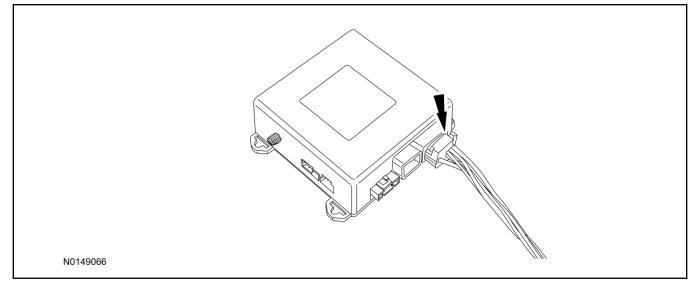


- 6. Position the VSS harness inside the IP being careful to avoid sharp edges and moving parts.
- 7. Install the new VSS harness OBD II port to the IP frame and install the bolts.
 - Do not over tighten.
- 8. Position the VSS module on top of the Body Control Module (BCM) and secure to wire harness with tie-straps.
 - 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.



9. Connect the VSS harness to the VSS module.

• Secure the VSS harness with tie-straps.



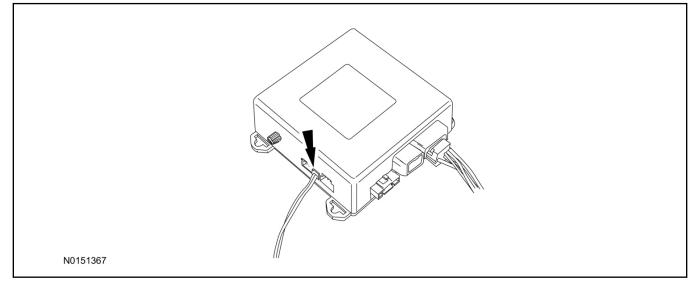
Optional Security Indicator LED Mounting

CAUTION:

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

- 10. 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.
- 11. 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.
- 12. Route the LED wire harness to the VSS module.

- 13. Connect the LED wire harness to the VSS module 2-pin white connector.
 - Secure the LED wire harness with tie-straps.



Learn VSS to Vehicle

NOTE:

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

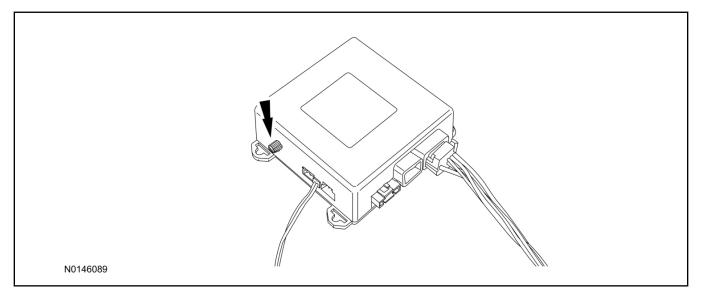
- 14. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 15. Put the key in the ignition.
- 16. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 17. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 18. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

Shock Sensor Sensitivity Adjustment

NOTE:

The VSS module is equipped with an internal dual zone Shock Sensor. The VSS system will activate a single horn honk/single light flash anytime a light to moderate impact is detected, and a "panic" type 30 second horn honk/light flash 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.

2011-2015 Super Duty INSTALLATION (Continued)



- 19. Starting with the adjustment knob in approximately the halfway position, lower the driver's window and exit the vehicle.
- 20. Press the LOCK button on the vehicle's RKE fob to arm the VSS system. The LED will light solid for 20 seconds and then begin to flash a steady on/off sequence to indicate the system is armed.
- 21. 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 honk and the lights will flash 1 time to indicate the warning impact was detected.
- 22. 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 honk and the lights will flash a steady on off sequence to indicate the heavy or full shock trigger was detected.
- 23. 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:

If installed, observe the LED while performing these tests.

- 24. 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.
- 25. 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.
- 26. 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.

- 27. Test all other vehicle doors, the hood and the trunk in the same manner, by setting off the alarm and disarming with the keyfob.
- 28. Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.

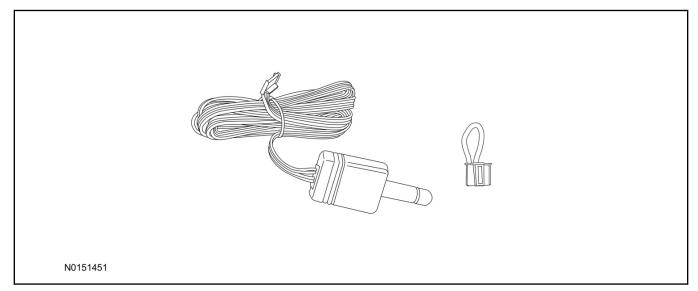
II. Remote Start (RMST) Upgrade - Antenna Kit "Sold Separately"

ACAUTION:

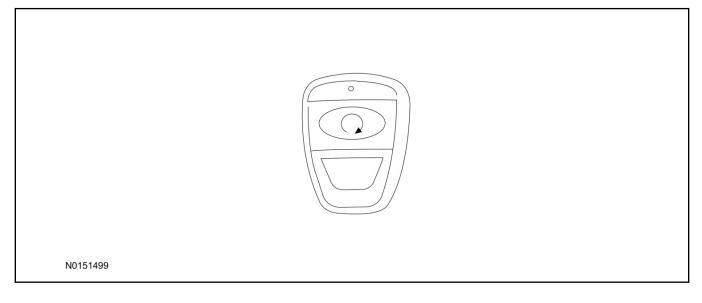
Carefully route and secure module and harnesses so that they do not interfere with moving parts or linkages.

NOTE:

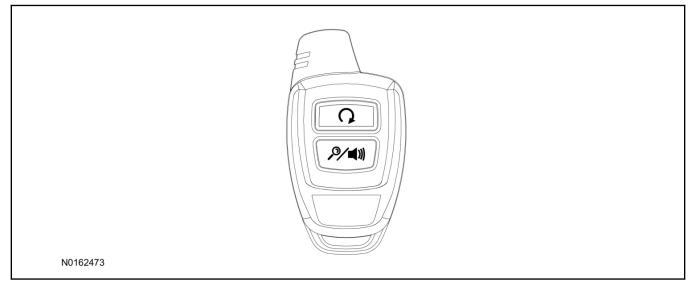
Verify that the vehicle has a hood switch Installed. If the vehicle is not equipped with a hood switch refer to "Hood Switch Kit - Sold Separately".



Standard Key Fob (15K601) "Sold Separately"



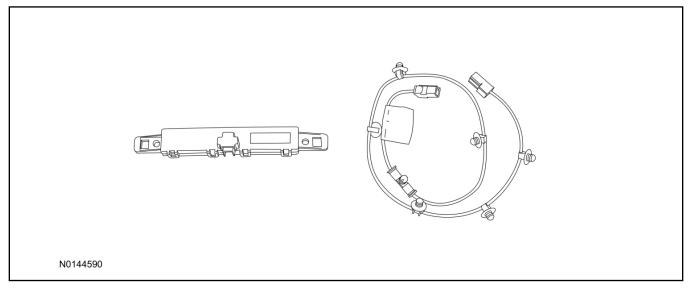
Bi-directional Key Fob (15K601) "Sold Separately"



Hood Switch Kit (19G366) - "Sold Separately"

N0117127

TPM Antenna Kit Components - "Sold Separately"



Optional RMST Upgrade Components "Sold Separately"

29. Review the RMST Upgrade components.

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

QUANTITY	DESCRIPTION	
1	Bi-directional Antenna (TBD)	
1	Security Jumper (TBD)	

Standard Key Fob (15K601) "Sold Separately"

QUANTITY	DESCRIPTION	
1	Standard Key Fob (15K601)	

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

QUANTITY	DESCRIPTION
1	Bi-directional Key Fob (15K601)

Hood Switch Kit Contents (if required) "Sold Separately"

30. Review the Hood Switch kit contents.

Hood Switch Kit "Sold Separately"

QUANTITY	DESCRIPTION		
1	Bolt		
1	Hood Switch Assembly		

TPM Antenna Kit Components "Sold Separately"

31. Review the TPM antenna kit contents.

TPM Antenna Kit

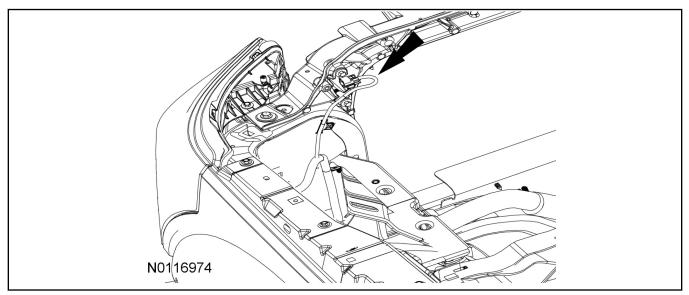
QUANTITY	DESCRIPTION	
1	Antenna Module	
1	Antenna Jumper Wire	
1	2-sided Tape (not shown)	

Hood Switch Kit - (if required) "Sold Separately"

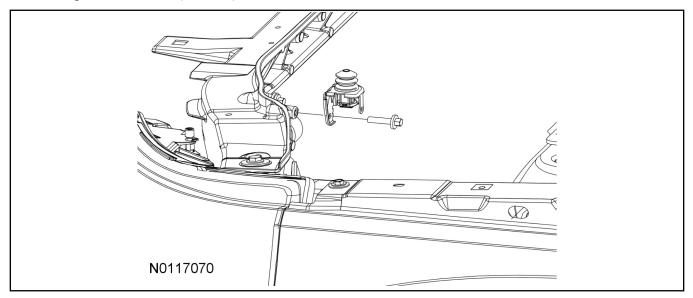
NOTE:

Hood switch installation is optional for VSS installation and required if the vehicle is being upgraded to RMST/RMU and is not currently equipped with a hood switch.

32. Locate the hood switch harness located on the LH side of the upper radiator core support.



- 33. Install the Hood switch assembly to the existing hood switch mounting on the upper radiator core support as shown.
 - Install the bolt.
 - Tighten to 10 Nm (89 lb-in).



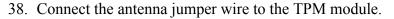
- 34. Connect the electrical connector to the hood switch.
- 35. Install the hood switch wire harness push pin retainer to the hood switch bracket.

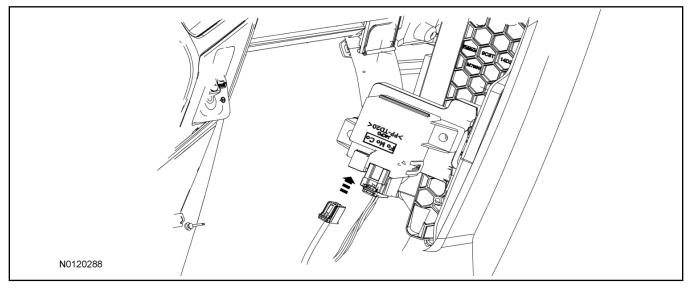
TPM Antenna Kit Installation

NOTE:

The TPM Antenna Kit is only required if the vehicle is not equipped with Factory remote start.

- 36. Open the glove compartment.
- 37. Push in the 2 side tabs and fully lower the glove compartment.





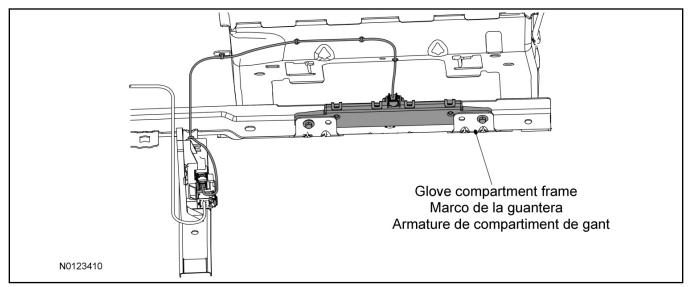
39. **NOTE:**

View is from inside the instrument panel glove box area.

NOTE:

The white push-pin attaches to the back of the TPM module bracket

Route the TPM antenna jumper wire along the glove compartment frame as shown, using the existing push pin holes.



- 40. Secure the antenna module to the glove box frame on top of the existing antenna module brackets.
 - Secure the antenna module with tie straps though the existing bracket holes.
- 41. Connect the antenna jumper wire connector to the antenna module.

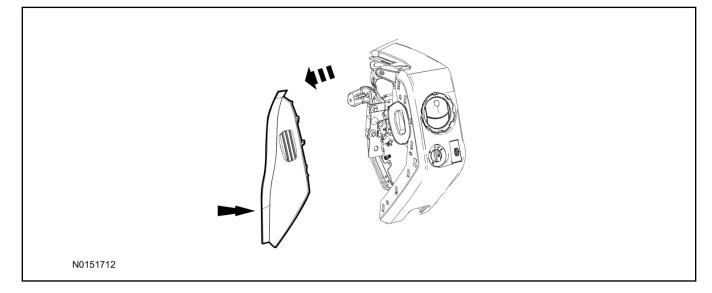
42. *NOTICE*:

While closing the glove compartment make sure that the TPM harness and antenna harness do not come in contact with the glove compartment door.

Close the glove compartment.

RMST Kit Antenna Installation

43. Remove the LH IP side finish panel.



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

2011-2015 Super Duty INSTALLATION (Continued)

45. **NOTE:**

Do not touch the adhesive, reduced adhesion may result.

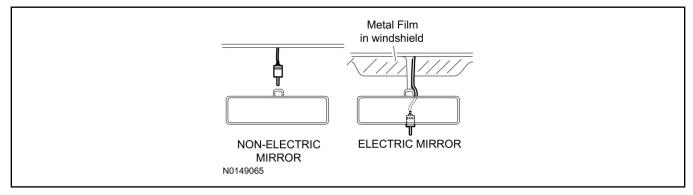
NOTE:

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.

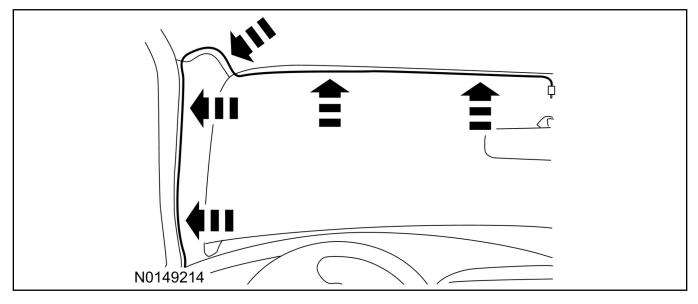


46. If necessary, position the A-pillar trim slightly outward to provide access to route the antenna wire. For additional information, refer to Workshop Manual (WSM) Section 501-05.

NOTE:

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

- 47. Route the antenna cable along the headliner and down the A-pillar towards the floor. Continue routing the wire into the IP towards the VSS module.
 - Secure with tie-straps.

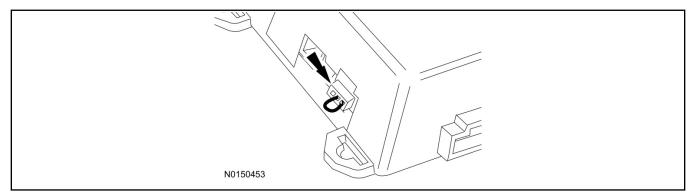


48. Connect the antenna connector to the VSS module.

- 49. Reposition the A-pillar trim panel back, if necessary. For additional information, refer to WSM Section 501-05.
- 50. If the RMST kit will not be upgraded to RMU functions at this time, install the LH IP side finish panel.

VSS Module - Optional Vehicle Security Features

- 51. Enable/Disable Vehicle Security Features: Locate the security jumper supplied in the kit.
 - Install the jumper to the VSS module if the vehicle security features are to be disabled.
 - Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



RMST Activation

- 52. Verify that the IDS is updated to the most current version.
- 53. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.

- 54. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Body.
 - Select Security.
 - Select Remote Start.
 - Verify that the information on the IDS screen is correct and all procedures have been followed.
 - Select Yes. This will enable the remote start function on the vehicle.
- 55. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.
- 56. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Learn Remote Start to Vehicle

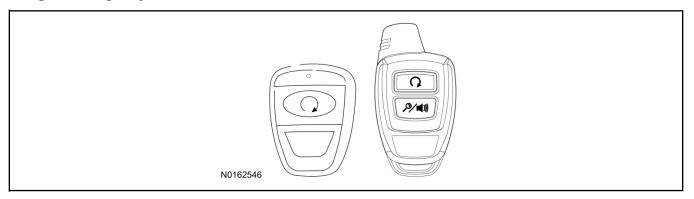
NOTE:

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

- 57. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 58. Put the key in the ignition.
- 59. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 60. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 61. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

2011-2015 Super Duty INSTALLATION (Continued)

Programming Key Fobs



62. **NOTE:**

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

- 1 Start with doors unlocked
- 2 Driver's door open (remaining open throughout)
- 3 Verify that the gearshift lever is in the "PARK" position.
- 4 Depress and hold brake pedal.
- 5 Start with ignition key OFF.
- 6 Cycle ignition key to the ON then OFF position 5 times, then back to the ON position a 6th time.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 7 Press the START button on each transmitter you wish to program. The horn will honk 1 time each time the START button is pressed to indicated the transmitter has been learned.
- 8 Cycle ignition key to the OFF position to exit transmitter learn mode.
- **9 NOTE:**

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

RMST Functional Test

NOTE:

Do not put a key in the ignition for the following steps.

- 63. Make sure the shift lever is in PARK and the ignition is in the OFF position. Remove all keys from the vehicle.
- 64. Close the hood.

2011-2015 Super Duty INSTALLATION (Continued)

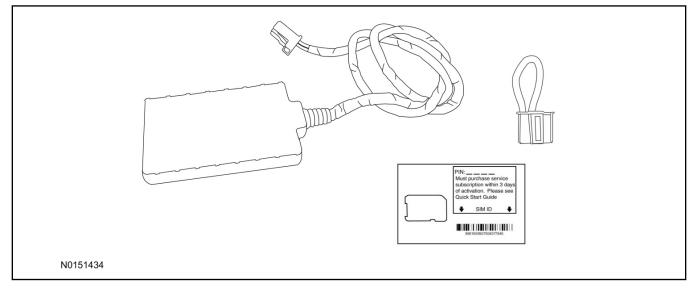
- 65. Close all of the vehicle doors.
- 66. Start the vehicle by pressing the remote start button twice on the remote start key fob.
- 67. Confirm the remote start works with the vehicle in park and with the hood and doors closed.
- 68. Open the hood.
- 69. **NOTE:**

Vehicle doors should be closed while performing this step.

Confirm that the vehicle will not start with the hood open. Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.

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

III. Remote Access (RMU) Upgrade "Sold Separately"



71. Review the RMU upgrade components.

Optional Components — Remote Access (RMU) Upgrade "Sold Separately"

QUANTITY	DESCRIPTION
1	Remote Messaging Unit (RMU)
1	SIM Card Carrier
1	Security Jumper

72. If previously installed, remove the LH IP side finish panel.

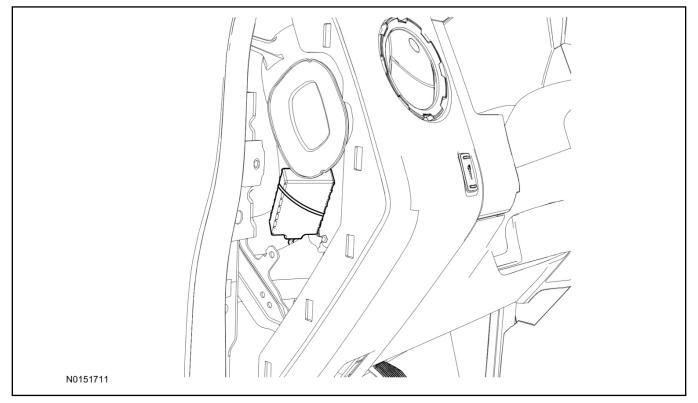
▲ CAUTION:

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

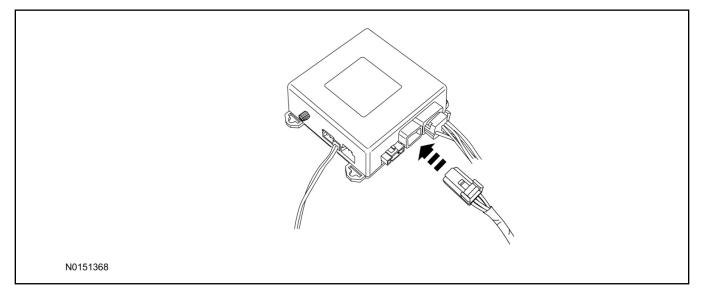
NOTE:

For proper range of operation, the RMU must be installed as shown in the diagram below.

73. Using a tie-strap secure the RMU to the A/C duct behind the LH IP side finish panel.



- 74. Connect the RMU electrical connector to the VSS module.
 - Secure the harness with tie-straps.

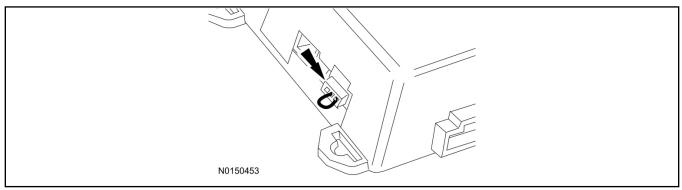


VSS Module - Optional Vehicle Security Features

75. Enable/Disable Vehicle Security Features:

Locate the security jumper supplied in the kit.

- Install the jumper to the VSS module if the vehicle security features are to be **disabled**.
- Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



76. Install the LH IP side finish panel.

Remote Start Activation - (Vehicles Without Factory Remote Start)

- 77. Verify that the IDS is updated to the most current version.
- 78. Connect IDS.
 - Follow the prompts to select new vehicle session.
 - Enter VIN.
- 79. Activate the remote start using the IDS.
 - Select the Tool Box icon.
 - Select Body.
 - Select Security.
 - Select Remote Start.
 - Verify that the information on the IDS screen is correct and all procedures have been followed.
 - Select Yes. This will enable the remote start function on the vehicle.

RMU Activation

NOTE:

Please note that the Remote Access application that is used to start the vehicle for this RMST kit will only work with iPhone and Android phones.

- 80. For RMU activation the following information from the customer is recommended to provide them with electronic notification for app retrieval:
 - 1 Email Address
 - 2 Cell Phone Number
 - 3 Cell Phone Carrier Company

- 81. For vehicles equipped with standard message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Convenience.
 - Select Remote Start.
 - Select System.
 - Verify that the remote start system is checked.
- 82. For vehicles equipped with advanced message center, verify that the remote start option now appears.
 - Using the Select and Arrow buttons on the steering wheel, select Settings.
 - Select Vehicle Settings.
 - Select Vehicle.
 - Select Remote Start System.
 - Verify that the remote start system is enabled.

Learn Remote Start to Vehicle

NOTE:

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

- 83. Press the vehicle's unlock button located on the driver's door. Make sure all doors are unlocked.
- 84. Put the key in the ignition.
- 85. Cycle eight times rapidly (within 10 seconds) between the 1 (OFF/LOCK) position and 3 (ON) position.
 - The eighth turn must end in the 3 (ON) position. The doors will lock, then unlock, to confirm that the programming mode has been activated.
- 86. Wait for 10 seconds and the remote start module will program itself to the system.
 - After 20 seconds, you will automatically exit the programming mode. The doors will lock, then unlock, to confirm that the programming mode has been exited.
- 87. If equipped with additional accessories (i.e. RF keypad), verify that they maintain all functionality post installation.

22

INSTALLATION (Continued)

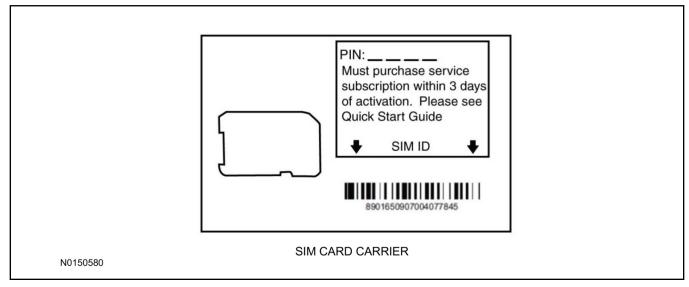
- 88. Log on to your Professional Technician Society (PTS) account and enter the vehicle information.
 - 1 Select "Vehicle Id".
 - 2 Select "By Year & Model"
 - 3 Choose the year & model of the vehicle and then select "GO".
 - 4 Hover over the "Workshop" tab.
 - 5 Select the "Accessory Installation" menu item.
 - 6 Under the "Electrical" heading, select the "Remote Access Activation" link (first time users will need to agree to terms & conditions).
 - 7 Select the "Install or Diagnose" link.

NOTE:

If you are not directed to the screen shown below (or user agreement screen for first time users), make sure your internet browser zone settings are set to medium. This setting can be found in your browsers "internet options" under the "privacy" tab.

CUSCOM accessories	Tord	LOG OUT	
DEALER TOOLS			
Install or Diagnose	Push Mobile App		
DOCUMENTATION	& MANUALS	i	
No documentation available			_
N0150870		.	-

89. Once on the "Install" page, enter the SIM ID code that was provided with the RMST kit. Select "Begin or Continue Installation".



90. Click on the "On screen steps 1-6", and follow the on screen instructions to complete the installation.



2011-2015 Super Duty INSTALLATION (Continued)

NOTE:

The following step will complete the activation process, when you are directed to a screen similar to the one below ensure the correct vehicle brand is selected and that all applicable features are enabled.

NOTE:

The "perimeter" and "shock" settings below are optional features and should only be selected when security features are enabled.

Installation Details			
Brand	Ford 💌		
Security Features	C Requery		
▼ Start			
🗹 Stop			
🔽 Lock			
Unlock			
🗹 Car Finder			
Perimeter			
Shock			
Neturn			Continue
N0150305			

2011-2015 Super Duty

INSTALLATION (Continued)

- 91. Perform a functional check of the system by testing each of the available features.
 - Start/Stop function
 - Lock/Unlock function
 - Car finder
 - Signal (for troubleshooting only)

Session Status	*	Yes							
Network Connection	*	Yes							
IP Assigned	+	10.64.17.	233						
Comm Established	+	Yes							
Received IMEI	*	35890104	1730422						
Received ESN	*	16630001	17						
Your install has bee						ions of th	e module, yo	u can do so belo	<i>w.</i>
🕝 Start 🔞 St	ор	Lock	Unlock	Car Finder	😨 Signal				

NOTE:

All tests above must be completed in order to move to the next step. If any of the listed functions fail, move the vehicle to an outside location and retest.

NOTE:

In the event start or stop fail, refer to the "Remote Start Activation" section in this manual.

NOTE:

In the event lock/unlock or car find fail, refer to the "Learn Remote Start System to Vehicle" section in this manual.

- 92. Once the hardware installation and RMU activation process is complete, record the 4-digit PIN on the SIM card carrier. Provide the SIM card carrier to the customer so they can add this system to their Remote Access Account. Customer must have both the 4-digit PIN and SIM ID to activate/add their vehicle to their Remote Access Account.
- 93. If the customer agrees, you may push the mobile application to the customer. You will need the customer's phone number and cellular carrier. If the customer opts to install the application themselves, they can locate it in their mobile app store.

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

Vehicle Security / Remote Start / Remote Access System Installation

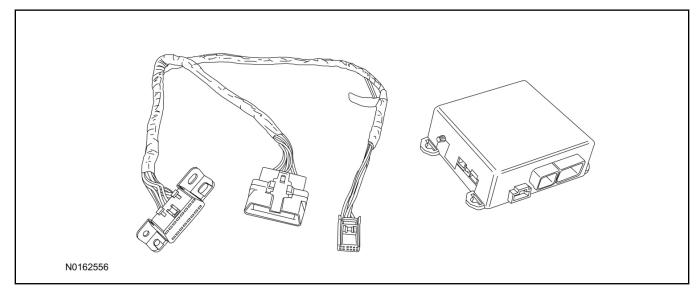
CONTENTS

INSTALLATION VSS Module Installation Security Indicator LED Mounting RMST Kit Antenna Installation RMU Module Installation GENERAL PROCEDURES Shock Sensor Sensitivity Adjustment RMU Activation

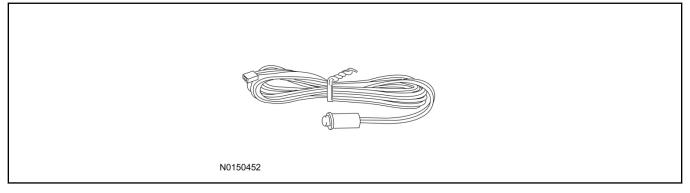
INSTALLATION

Vehicle Security / Remote Start / Remote Access - MKT

VSS System Components



Security Indicator LED (19D596) "Optional"



MKT

1. Verify correct kit number.

Review VSS Kit Contents

NOTE:

Kits are vehicle specific and are not interchangeable.

2. Review the VSS kit contents.

Vehicle Security System (VSS) Kit

QUANTITY	DESCRIPTION
1	VSS Module
1	T-harness

Vehicle Security System (VSS) Kit(Continued)

6	Tie-straps
1	Owner's Manual

Security Indicator LED Kit Contents "Optional"

3. Review the Security Indicator LED kit contents.

Security Indicator LED Kit

INSTALLATION (Continued)

QUANTITY	DESCRIPTION
1	Security Indicator LED

I. VSS System Installation

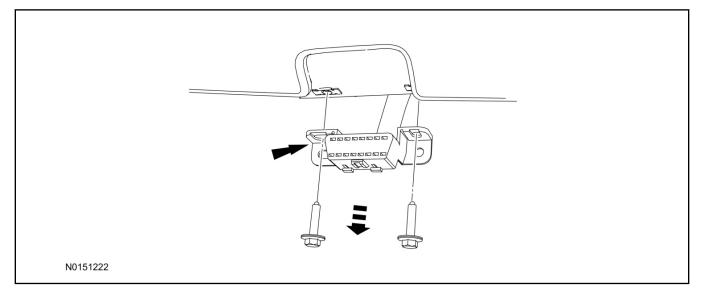
[▲]CAUTION:

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

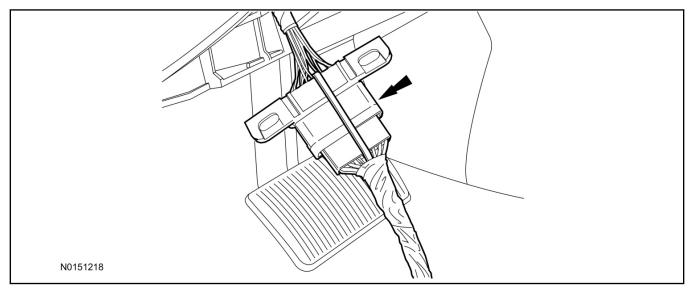
NOTE:

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

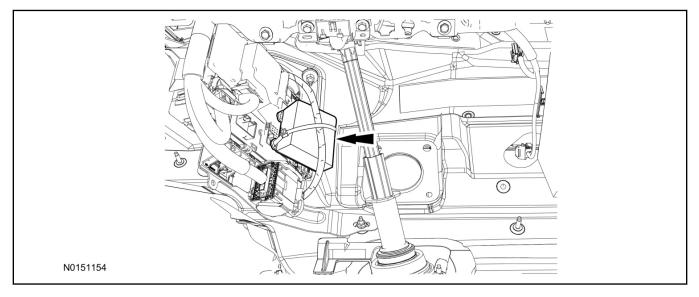
- Remove the LH lower Instrument Panel (IP) insulator. 4.
- Remove the 2 bolts and remove the OBD II port from the IP frame. 5.



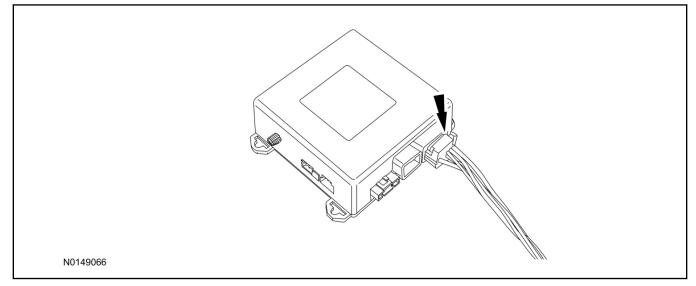
- 6. Connect the VSS T-harness to the OBD II port.
 - Secure the T-harness to the OBD II port using a tie-strap.



- 7. Position the VSS harness inside the IP being careful to avoid sharp edges and moving parts.
- 8. Install the new VSS harness OBD II port to the IP frame and install the bolts.
 - Do not over tighten.
- 9. Position the VSS module on top of the Body Control Module (BCM) and secure to wire harness with tie-straps.
 - 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.



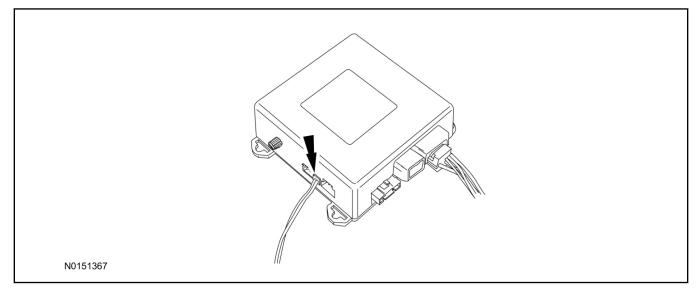
Optional Security Indicator LED Mounting

ACAUTION:

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

- 11. 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.
- 12. 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.
- 13. Route the LED wire harness to the VSS module.

- 14. Connect the LED wire harness to the VSS module 2-pin white connector.
 - Secure the LED wire harness with tie-straps.



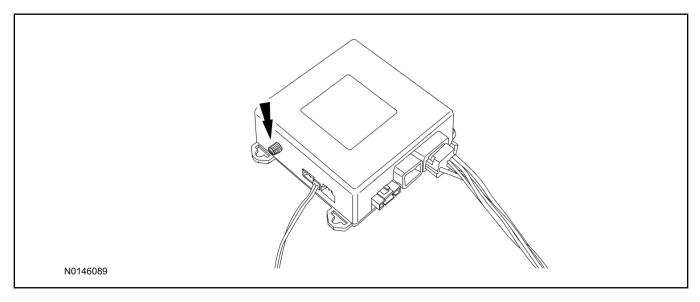
Learn VSS to Vehicle

15. Cycle door locks at trim switch four times to learn remote start keyless functions.

Shock Sensor Sensitivity Adjustment

NOTE:

The VSS module is equipped with an internal dual zone Shock Sensor. The VSS system will activate a single horn honk/single light flash anytime a light to moderate impact is detected, and a "panic" type 30 second horn honk/light flash 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.



- 16. Starting with the adjustment knob in approximately the halfway position, lower the driver's window and exit the vehicle.
- 17. Press the LOCK button on the vehicle's RKE fob to arm the VSS system. The LED will light solid for 20 seconds and then begin to flash a steady on/off sequence to indicate the system is armed.
- 18. 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 honk and the lights will flash 1 time to indicate the warning impact was detected.
- 19. 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 honk and the lights will flash a steady on off sequence to indicate the heavy or full shock trigger was detected.
- 20. 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:

If installed, observe the LED while performing these tests.

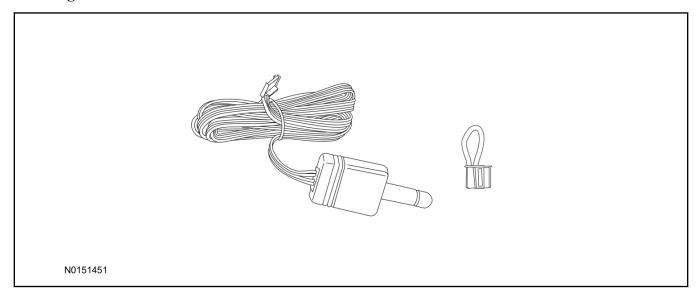
- 21. Lower the driver's door window, then close all doors, hood, and trunk/hatch and press lock on the keyfob. The LED should stay lit for 20 seconds while the VSS system pre-arms, after which it will flash every 3-4 seconds in fully armed mode.
- 22. Reach inside the window hit the door unlock trim 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.
- 23. 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.
- 24. Test all other vehicle doors, the hood and the trunk in the same manner, by setting off the alarm and disarming with the keyfob.
- 25. If the VSS kit will not be upgraded to RMST/RMU functions at this time, install the LH lower IP insulator.

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

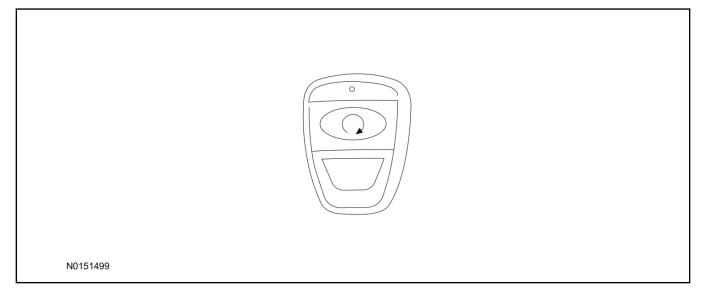
II. Remote Start (RMST) Upgrade - Antenna Kit "Sold Separately"

ACAUTION:

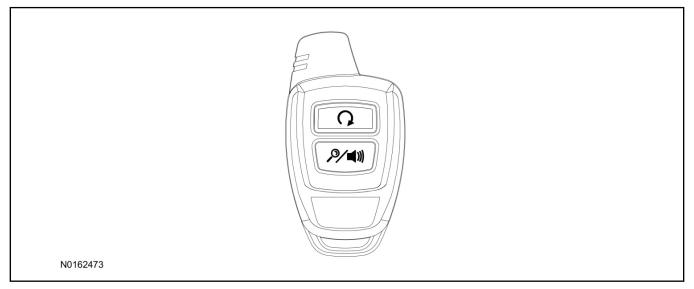
Carefully route and secure module and harnesses so that they do not interfere with moving parts or linkages.



Standard Key Fob (15K601) "Sold Separately"



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



Optional RMST Upgrade Components "Sold Separately"

26. Review the RMST Upgrade components.

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

QUANTITY	DESCRIPTION
1	Bi-directional Antenna (TBD)
1	Security Jumper (TBD)

Standard Key Fob (15K601) "Sold Separately"

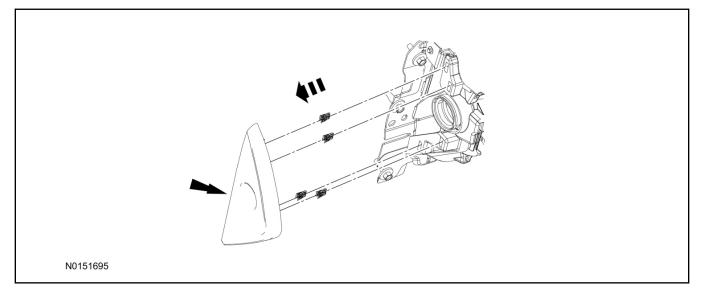
QUANTITY	DESCRIPTION
1	Standard Key Fob (15K601)

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

QUANTITY	DESCRIPTION
1	Bi-directional Key Fob (15K601)

RMST Kit Antenna Installation

- 27. If previously installed, remove the LH lower IP insulator.
- 28. Position the weather strip aside and remove the LH IP side finish panel.



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

30. **NOTE:**

Do not touch the adhesive, reduced adhesion may result.

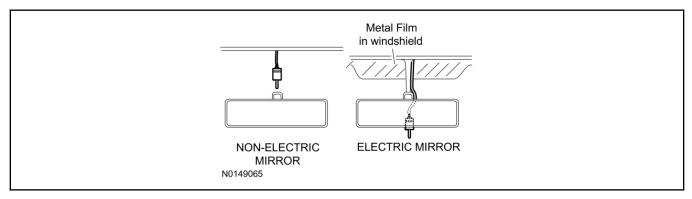
NOTE:

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.



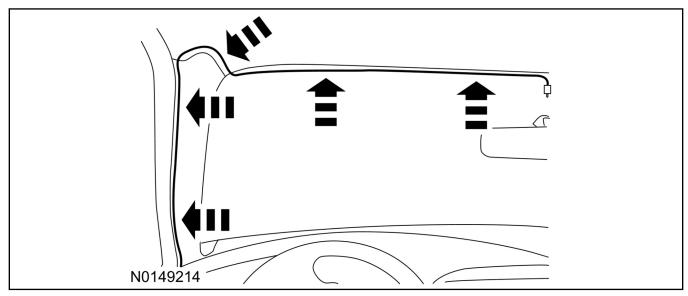
31. If necessary, position the A-pillar trim slightly outward to provide access to route the antenna wire.

10

NOTE:

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

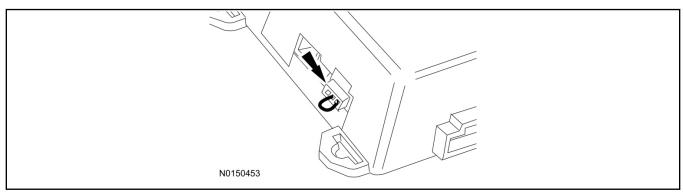
- 32. Route the antenna cable along the headliner and down the A-pillar towards the floor. Continue routing the wire into the IP towards the VSS module.
 - Secure with tie-straps.



- 33. Connect the antenna connector to the VSS module.
- 34. Reposition the A-pillar trim panel back, if necessary.
- 35. Install the LH IP side finish panel and position the weatherstrip back.

VSS Module - Optional Vehicle Security Features

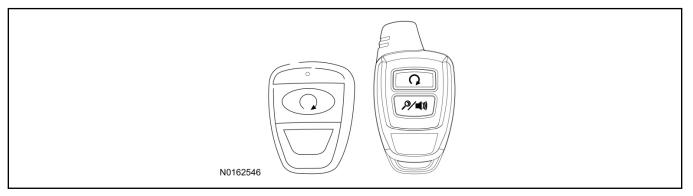
- 36. Enable/Disable Vehicle Security Features: Locate the security jumper supplied in the kit.
 - Install the jumper to the VSS module if the vehicle security features are to be disabled.
 - Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



Learn VSS to Vehicle

37. Cycle door locks at trim switch four times to learn remote start keyless functions.

Programming Key Fobs



38. **NOTE:**

These steps must be performed with the VSS module security jumper removed if previously installed. For additional information refer to "VSS Module - Optional Vehicle Security Features".

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.
- 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 four times, ending in ignition on, engine off.
- 6 Release the brake pedal.
- 7 Press the vehicle start/stop button twice to turn ignition on.
 - The horn will honk 3 times to indicate transmitter learn mode access.
- 8 Press the start stop button on each fob you wish to program.
- 9 Cycle ignition to the OFF position to exit transmitter learn mode.

10 NOTE:

If the security jumper is installed the vehicle security features are disabled.

If previously removed, reinstall the VSS module security jumper. For additional information, refer to "VSS Module - Optional Vehicle Security Features".

39. If the RMST kit will not be upgraded to RMU functions at this time, install the LH lower IP insulator.

RMST Functional Test

NOTE:

Do not put a key in the ignition for the following steps.

40. Make sure the shift lever is in PARK and the ignition is in the OFF position. Remove all keys from the vehicle.

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- 41. Close the hood.
- 42. Close all of the vehicle doors.
- 43. Start the vehicle by pressing the remote start button twice on the remote start key fob.
- 44. Confirm the remote start works with the vehicle in park and with the hood and doors closed.
- 45. Open the hood.

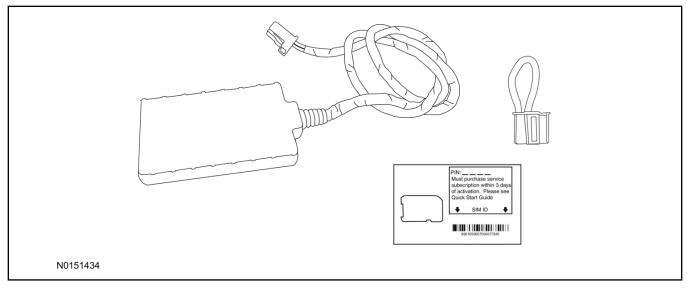
46. **NOTE:**

Vehicle doors should be closed while performing this step.

Confirm that the vehicle will not start with the hood open. Please contact 1-800-FORD-KEY with any issues regarding hardware or kit contents.

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

III. Remote Access (RMU) Upgrade "Sold Separately"



48. Review the RMU upgrade components.

Optional Components — Remote Access (RMU) Upgrade "Sold Separately"

QUANTITY	DESCRIPTION
1	Remote Messaging Unit (RMU)
1	SIM Card Carrier
1	Security Jumper

49. If previously installed, remove the LH lower IP insulator.

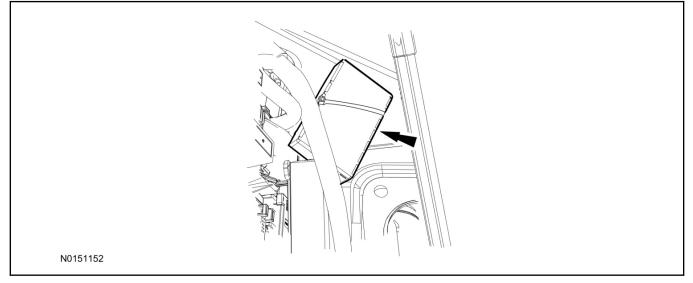
ACAUTION:

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

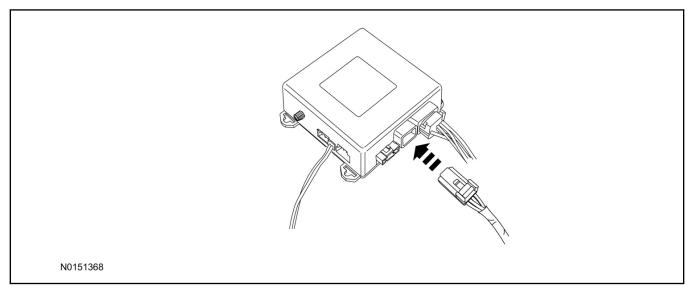
NOTE:

For proper range of operation, the RMU must be installed as shown in the diagram below.

50. Using tie-straps secure the RMU to the IP harness above the previously installed VSS module.



- 51. Connect the RMU electrical connector to the VSS module.
 - Secure the harness with tie-straps.



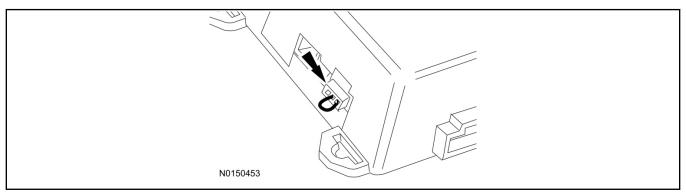
13

VSS Module - Optional Vehicle Security Features

52. Enable/Disable Vehicle Security Features:

Locate the security jumper supplied in the kit.

- Install the jumper to the VSS module if the vehicle security features are to be disabled.
- Not installing and/or removing the jumper from the VSS module will keep the vehicle security features **enabled**.



53. Install the LH lower IP insulator.

Learn VSS to Vehicle

54. Cycle door locks at trim switch four times to learn remote start keyless functions.

RMU Activation

NOTE:

Please note that the Remote Access application that is used to start the vehicle for this RMST kit will only work with iPhone and Android phones.

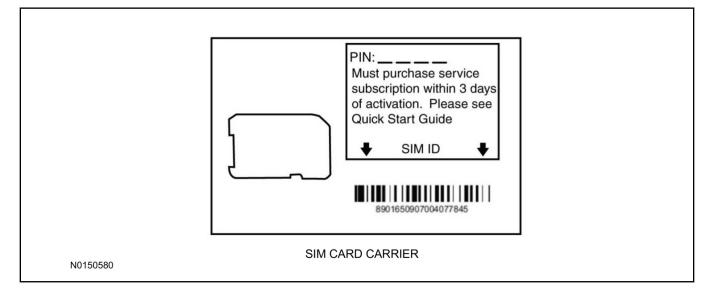
- 55. For RMU activation the following information from the customer is recommended to provide them with electronic notification for app retrieval:
 - 1 Email Address
 - 2 Cell Phone Number
 - 3 Cell Phone Carrier Company
- 56. Log on to your Professional Technician Society (PTS) account and enter the vehicle information.
 - 1 Select "Vehicle Id".
 - 2 Select "By Year & Model"
 - 3 Choose the year & model of the vehicle and then select "GO".
 - 4 Hover over the "Workshop" tab.
 - 5 Select the "Accessory Installation" menu item.
 - 6 Under the "Electrical" heading, select the "Remote Access Activation" link (first time users will need to agree to terms & conditions).
 - 7 Select the "Install or Diagnose" link.

NOTE:

If you are not directed to the screen shown below (or user agreement screen for first time users), make sure your internet browser zone settings are set to medium. This setting can be found in your browsers "internet options" under the "privacy" tab.

HOME DEALER TOOLS	LOG OUT
DEALER TOOLS	
Install or Push Diagnose Mobile App	
No documentation available	
N0150870	i en il en i

57. Once on the "Install" page, enter the SIM ID code that was provided with the RMST kit. Select "Begin or Continue Installation".



58. Click on the "On screen steps 1-6", and follow the on screen instructions to complete the installation.



Vehicle Security/Remote Start/Remote Access

2013-2015 MKT INSTALLATION (Continued)

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NOTE:

The following step will complete the activation process, when you are directed to a screen similar to the one below ensure the correct vehicle brand is selected and that all applicable features are enabled.

NOTE:

The "perimeter" and "shock" settings below are optional features and should only be selected when security features are enabled.

Installation Details			
Brand	Ford 💌		
Security Features	2 Requery		
🔽 Start			
🔽 Stop			
🔽 Lock			
🔽 Unlock			
🔽 Car Finder			
Perimeter			
🔽 Shock			
Neturn			Continue
N0150305			

2013-2015 MKT

INSTALLATION (Continued)

- 18
- 59. Perform a functional check of the system by testing each of the available features.
 - Start/Stop function
 - Lock/Unlock function
 - Car finder
 - Signal (for troubleshooting only)

Consise Clarker		V	
Session Status	-	Yes	
Network Connecti	ion 🖌	Yes	
IP Assigned	+	10.64.17.233	
Comm Establishe	ed 🖌	Yes	
Received IMEI	*	358901041730422	
Received ESN	*	1663000117	
Your install has b		ed successfully. If you would like to test the physical functions of the module, you can do so be	elow.
Start 😡	orop		
🕑 Start 😡			

NOTE:

All tests above must be completed in order to move to the next step. If any of the listed functions fail, move the vehicle to an outside location and retest.

- 60. Once the hardware installation and RMU activation process is complete, record the 4-digit PIN on the SIM card carrier. Provide the SIM card carrier to the customer so they can add this system to their Remote Access Account. Customer must have both the 4-digit PIN and SIM ID to activate/add their vehicle to their Remote Access Account.
- 61. If the customer agrees, you may push the mobile application to the customer. You will need the customer's phone number and cellular carrier. If the customer opts to install the application themselves, they can locate it in their mobile app store.

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