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REMOTE START SYSTEM INSTALLATION

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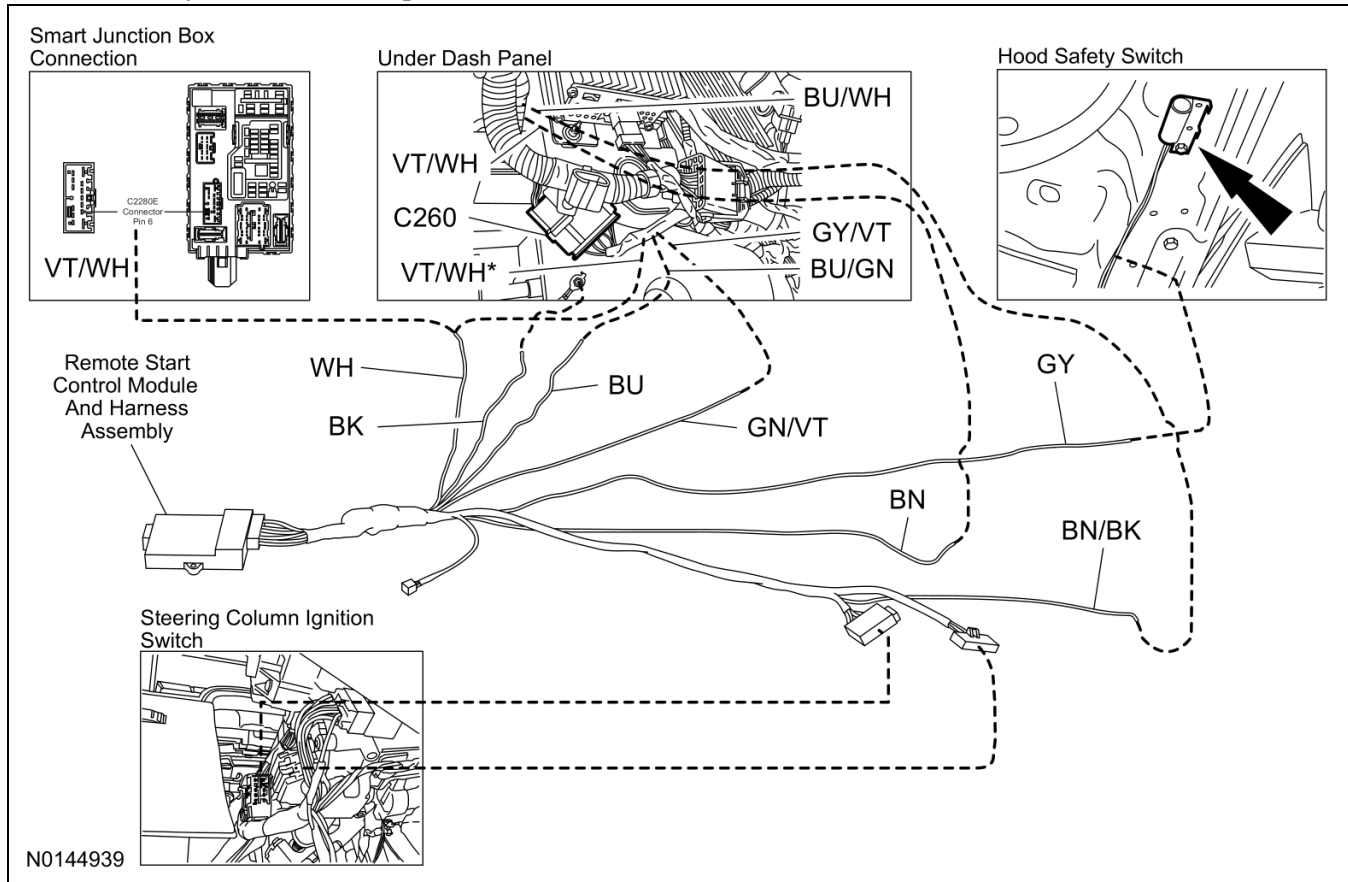
WIRING DIAGRAMS

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INSTALLATION

Remote Start

Remote Start System RMST Components



Mustang

NOTICE: Remote start systems are only applicable to vehicles with automatic transmissions.

NOTE: Both original keys are required for all remote start systems on vehicles equipped with SECURILOCK.

1. Verify correct kit number.

INSTALLATION (Continued)

Review Remote Start Installation Kit Contents

NOTE: Kits are vehicle specific and are not interchangeable.

- Review the RMST kit contents.

Remote Start System Standard Kit (RMST) Type - "A"

QUANTITY	DESCRIPTION
1	TYPE - "A" MODULE ASSEMBLY
1	RMST SOFTWARE CARTRIDGE ASSEMBLY
2	1 BUTTON POWERCODE TRANSMITTER
1	TYPE - "A" CUSTOM WIRING HARNESS
1	ANTENNA
1	HOOD SAFETY SWITCH ASSEMBLY
1	INSTALLATION PARTS BAG
1	FUSE PARTS BAG
1	OPERATORS INSTRUCTIONS
1	OPERATORS QUICK REFERENCE WALLET CARD
1	UNDERHOOD WARNING LABEL
1	SECURILOCK INTERFACE KIT

- Review the RMST bidirectional kit contents.

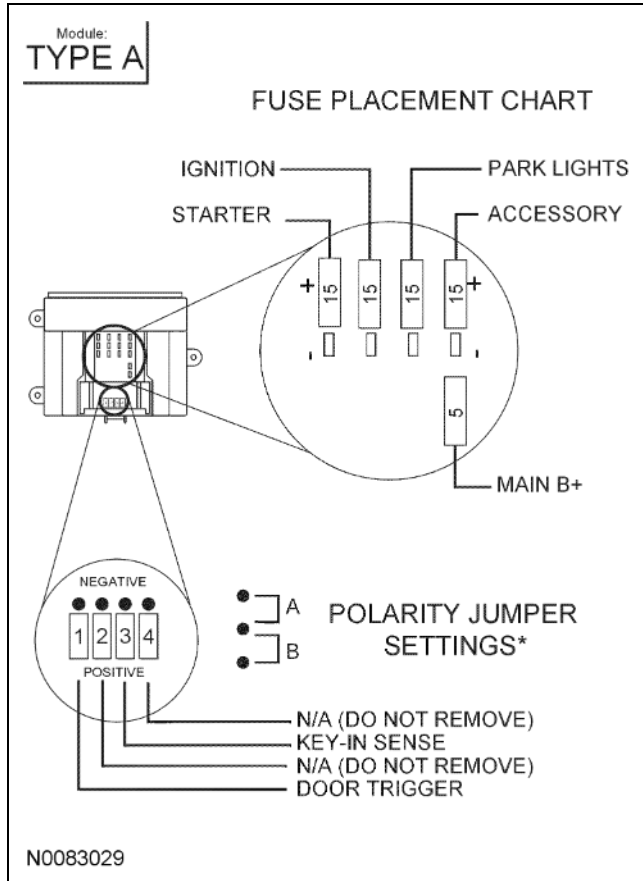
Remote Start System Bidirectional Kit (RMST) Type - "A"

QUANTITY	DESCRIPTION
1	TYPE - "A" MODULE ASSEMBLY
1	RMST SOFTWARE CARTRIDGE ASSEMBLY
1	2 BUTTON POWERCODE TRANSMITTER
1	TYPE - "A" CUSTOM WIRING HARNESS
1	ANTENNA
1	ANTENNA HARNESS
1	HOOD SAFETY SWITCH ASSEMBLY
1	INSTALLATION PARTS BAG
1	FUSE PARTS BAG
1	OPERATORS INSTRUCTIONS
1	OPERATORS QUICK REFERENCE WALLET CARD
1	UNDERHOOD WARNING LABEL
1	SECURILOCK INTERFACE KIT

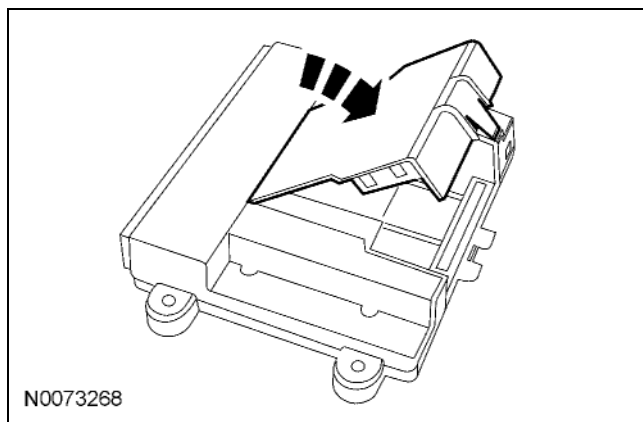
Module Preparation

- Place the supplied fuses into the power distribution block on the remote start control module.
 - Move the polarity jumpers to their proper locations on the control module, see illustration.

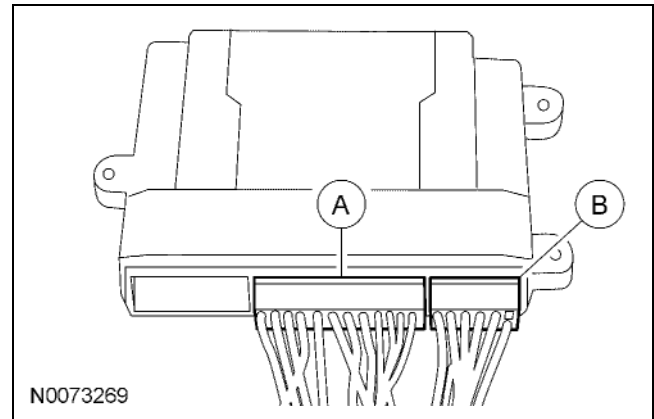
INSTALLATION (Continued)



5. Place the software cartridge onto the RMST control module.



6. Plug the wiring harness(es) into the module.
 - A - Harness: 24-way, used on all systems.
 - B - Harness: 10-way, used on all systems with RMST.



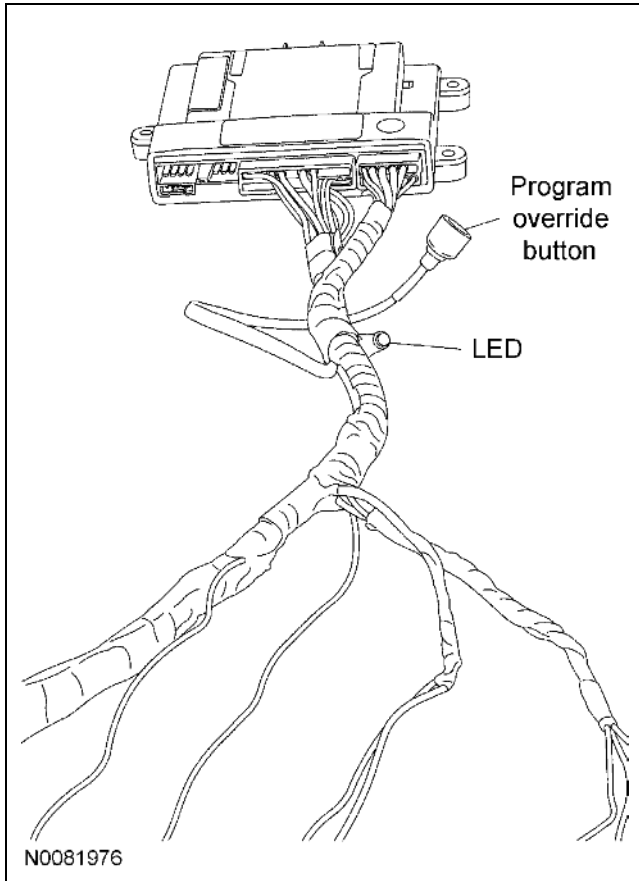
7. **NOTE:** Do not cut the override programming button off of the harness, it is used for all installations.

NOTE: For vehicle specific wiring diagram(s) click [here](#).

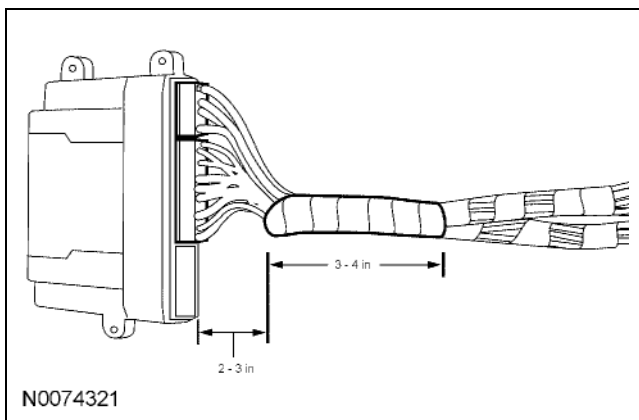
Referring to the vehicle specific wiring section for the system being installed, gather all individual wires that will be routed to the same areas of the vehicle into groups. Cover each wire group with electrical tape for approximately 18". Depending on the vehicle, there will be 2 to 5 different wire groups.

Trim the unused wires approximately 6 - 8" from the module.

INSTALLATION (Continued)



8. Tape the harness sections together, making sure to cover all of the unused wires.



Vehicle Preparation

9. Remove the left hand scuff plate and cowl trim panel.

10. Remove the 2 lower instrument panel steering column cover screws and the cover.
11. Remove the 4 bolts and the steering column opening trim panel reinforcement.
12. **NOTE:** Release the upper steering column shroud by carefully pressing the sides inward. Remove the 3 lower steering column shroud screws, then separate the upper and lower shrouds.
13. Remove the right hand scuff plate, cowl trim panel and fuse door panel.

Antenna Mounting

NOTE: For good range of operation, the antenna must be installed correctly.

NOTE: Keep these points in mind when selecting a location and mounting the antenna.

- Do not mount the antenna behind or on any metal film or window tinting on the windshield.
- Do not mount the antenna so that one of the antenna elements touches or crosses any vehicle wiring and/or metal.
- On vehicles without metal film in the windshield around the rear view mirror, mount the antenna between the headliner and the rear view mirror.
- On vehicles equipped with an electronic mirror, or on vehicles with metal film around the rearview mirror, mount the antenna approximately 3 inches below the mirror attachment point to the windshield and/or mirror electronics.

14. Choose a suitable mounting location following the guidelines above.

Install The Antenna

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

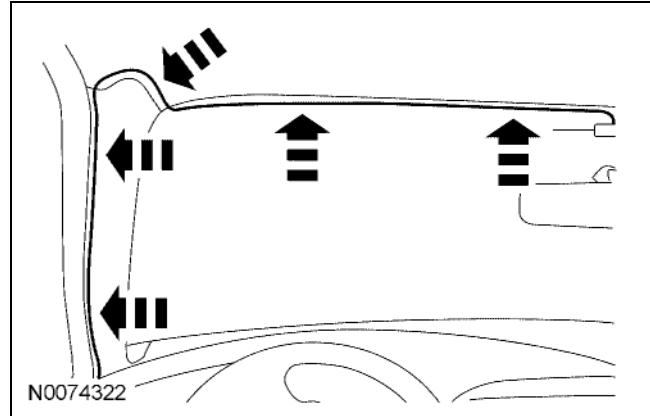
INSTALLATION (Continued)

16. **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.

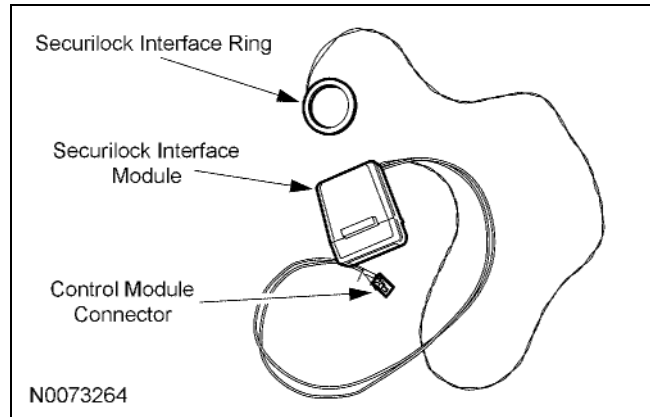
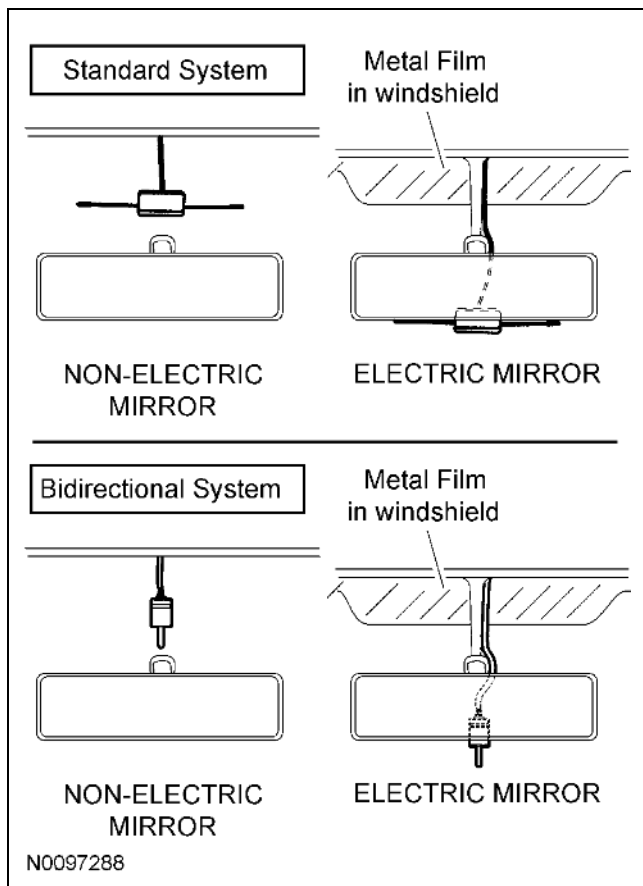
Remove the protective backing from the adhesive on the antenna and firmly press the body of the antenna to the windshield.



19. Reposition the A pillar trim panel.

Install The Securilock Interface Kit

20. Route the ring of the SECURILOCK interface antenna lead up along the steering column to the PATS transceiver location.

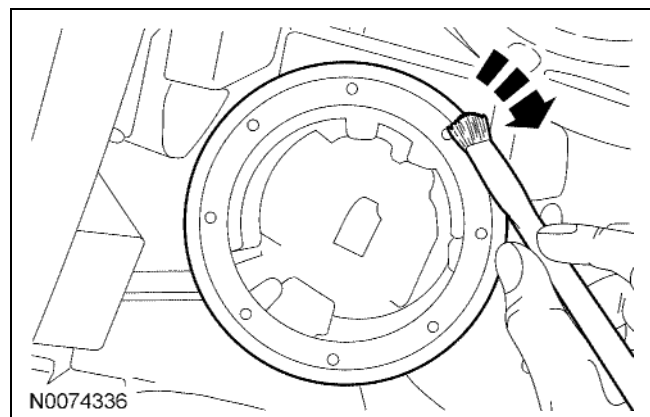


21. Following the directions on the supplied tube of adhesive primer, apply a thin coating around the transceiver antenna coil and allow to dry for approximately 5 minutes.

17. 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 the air bag.

18. Route the antenna cable along the headliner and down the A pillar towards the floor.

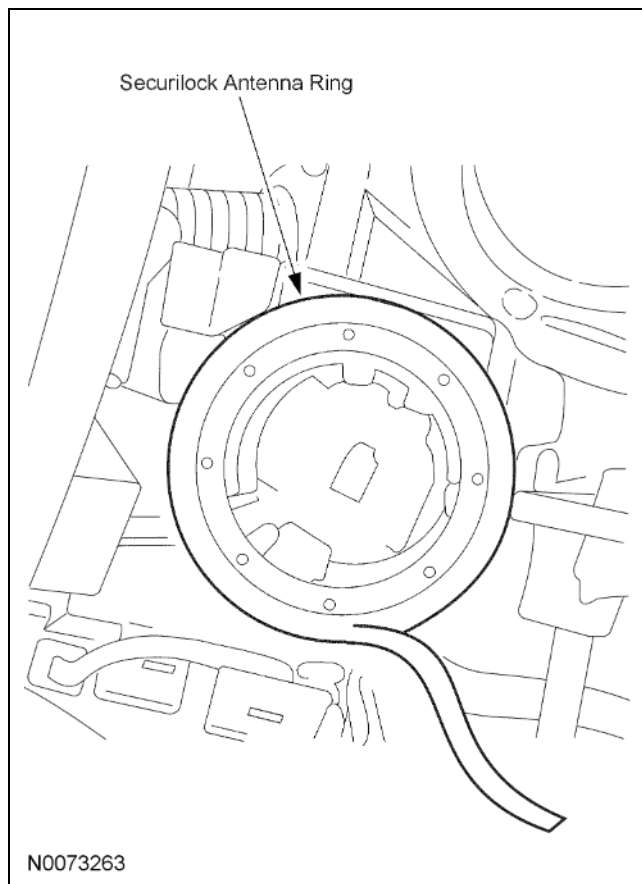


INSTALLATION (Continued)

22. **NOTICE:** Do not damage the transceiver ring during installation or while installing the steering column shroud.

A damaged transceiver ring will result in an inoperable remote start system.

Remove the protective backing from the SECURILOCK antenna ring. Place the SECURILOCK ring over the PATS transceiver and press firmly in place.



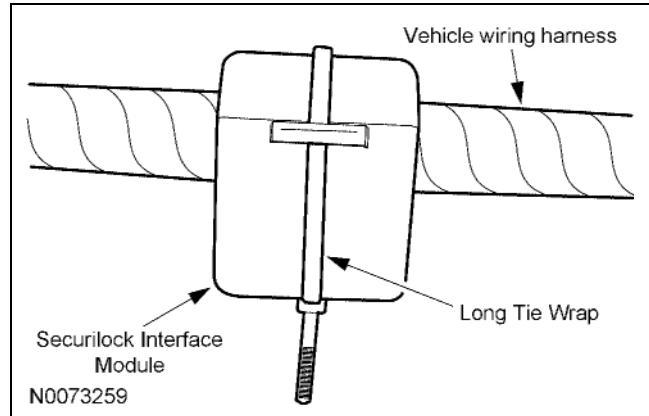
Install The Securilock Interface Module

23. **NOTE:** Do Not mount the SECURILOCK Interface Module to or within 3" of a metal surface, including any underdash brackets, or in the knee bolster area.

Mount the SECURILOCK Interface Module to an underdash wiring harness using one of the supplied long tie wraps.

24. **NOTICE:** Do not attach the harness to the steering column.

Route the harness and connector the to module mounting location.



Install the Remote Start Control Module and Harness Assembly

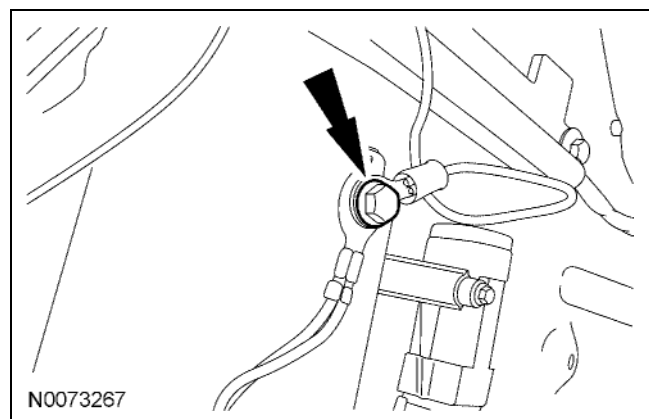
25. Place the remote start module and harness assembly on the floor of the vehicle.

Identify Circuit Wires For Connections

NOTE: For vehicle specific wiring diagram(s) click [here](#).

NOTE: For proper wire splicing techniques click [here](#).

26. Connect the Black ground wire from the remote start module harness to the chassis ground point at the driver kick panel.



27. Disconnect the ignition switch electrical connector.
28. Connect the remote start harness hard shell connectors to the ignition switch and ignition switch connector

INSTALLATION (Continued)

29. **NOTE:** A DVOM connected to the correct wire will show 12V, then show 0V when the horn button is held.
- A logic probe will show power on the correct wire, then show ground when the horn button is held.
- NOTE:** Wire is located inside wire convolute running to connector C260 but does not terminate. Wire can be found within 2-6'' from connector on the side heading into main IP harness in a looped fashion underneath bright green tape.
- Identify the Blue/White horn circuit wire under dash panel.
30. Connect the Brown/Black wire from the remote start module harness to the Blue/White horn circuit wire under dash panel.
31. **NOTE:** A DVOM connected to the correct wire will show 12V, then show 0V when the door lock switch is pressed.
- A logic probe will show power on the correct wire, then show ground when the door lock switch is pressed.
- NOTE:** Wire is located inside wire loom running to connector C260 but does not terminate. Wire can be found 4'' from connector on the side heading toward the bulkhead of the vehicle in a looped fashion underneath bright green tape.
- Identify the Blue/Green power door lock circuit wire under dash panel.
32. Connect the Blue wire from the remote start module harness to the Blue/Green wire under dash panel.
33. **NOTE:** A DVOM connected to the correct wire will show 12V with the vehicle door(s) open and the dome light on, then show 0V with the vehicle door(s) closed and the dome light off.
- NOTE:** A logic probe connected to the correct wire will show power with the vehicle door(s) open and the dome light on, then show ground with the vehicle door(s) closed and the dome light off.
- NOTE:** Wire is located inside wire loom running to connector C260 but does not terminate. Wire can be found 4'' from connector on the side heading toward the bulkhead of the vehicle in a looped fashion underneath bright green tape.
- NOTE:** Be sure that the dome light has timed out and is off before performing the door closed test.
- Be sure that the dome lamp is illuminated before performing the door open test.
- Identify the Grey/Violet dome light circuit wire under dash panel.
34. Connect the Green/Violet wire from the remote start module harness to the Grey/Violet dome light circuit wire under dash panel.
35. **NOTE:** A DVOM connected to the correct wire will show 0V, then show 12V while depressing the brake pedal.
- A logic probe will show ground when on the correct wire, then show power while depressing the brake pedal.
- NOTE:** Wire is located inside wire convolute running to connector C260 but does not terminate. Wire can be found within 2-6'' from connector on the side heading into the main IP harness in a looped fashion underneath bright green tape.
- Identify the Violet/White brake switch circuit wire under dash panel.
36. Connect the Brown wire from the remote start module harness to the Violet/White brake switch circuit wire under dash panel.

INSTALLATION (Continued)

37. **NOTE:** A DVOM connected to the correct wire will show 12V, when the headlight switch is ON, then show 0V when the headlight switch is OFF.

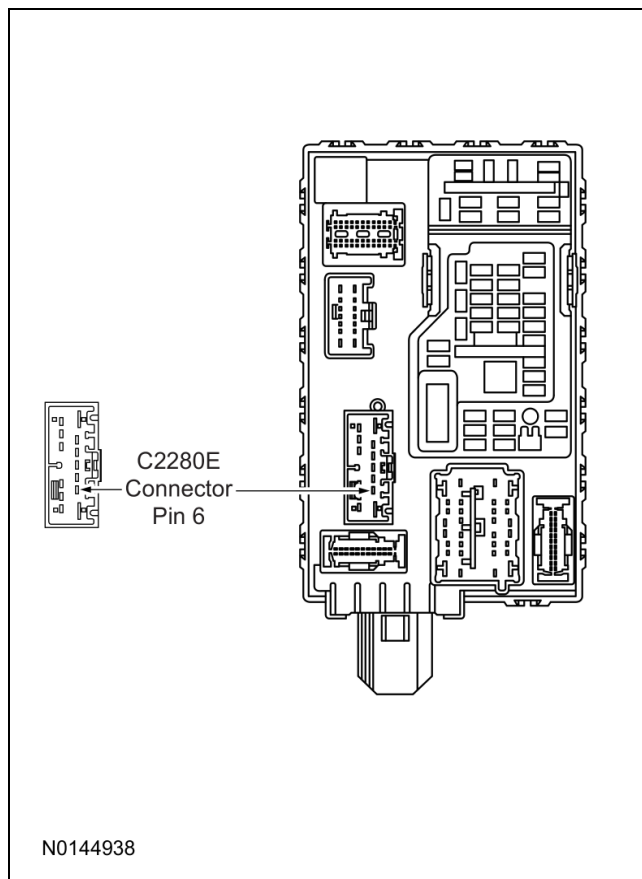
A logic probe will show power on the correct wire when the headlight switch is ON, then show ground when the headlight switch is OFF.

NOTE: Do NOT splice into any circuits leading to the back of the headlight switch. Doing so may lead to headlight switch failure.

NOTE: Post J1 Running Change: Wire is located inside wire loom running to connector C260 but does not terminate. Wire can be found 4' from connector on the side heading toward the bulkhead of the vehicle in a looped fashion underneath bright green tape.

Identify the Violet/White parking light circuit wire at the Smart Junction Box (SJB) connector C2280E Pin 6.

38. Connect the White wire from the remote start module harness to the Violet/White parking light circuit wire at the SJB connector C2280E Pin 6.



Install The Hood Safety Switch

39. **NOTE:** Route the hood safety switch wire carefully avoiding any moving parts or components that can produce excessive heat.

NOTE: Using a piece of convolute adds in the appearance of the installation.

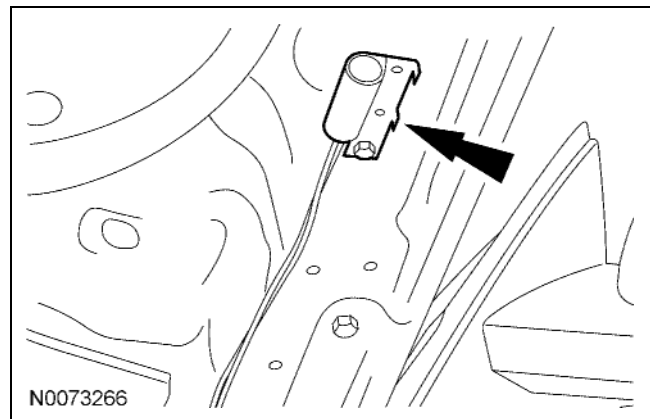
NOTE: The switch should be positioned about 30 degrees below parallel to the ground to accommodate for parking on inclines.

Failure to position the switch properly could result in one of the following:

- False alarm trips
- Non-Remote Start events
- Inadvertent shutdown during Remote Start

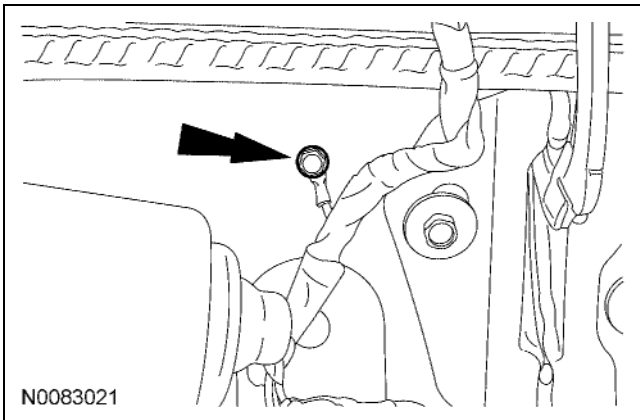
Locate an easy to access area near the driver side hood hinge and install the hood safety switch using the supplied metal screws.

40. Apply rustproofing compound (PM-13-A) to the drilled hole and torque the screw to 1.00 Nm (10 lb-in).

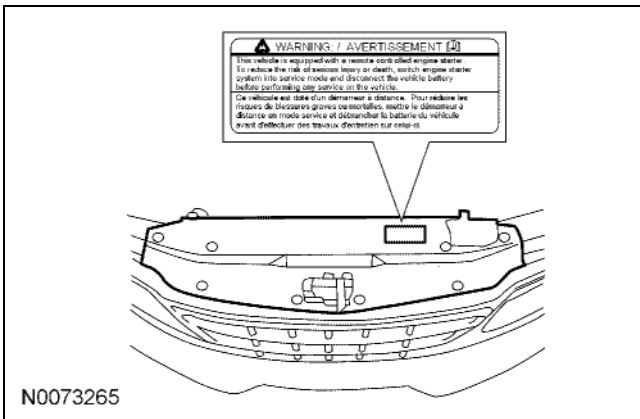


INSTALLATION (Continued)

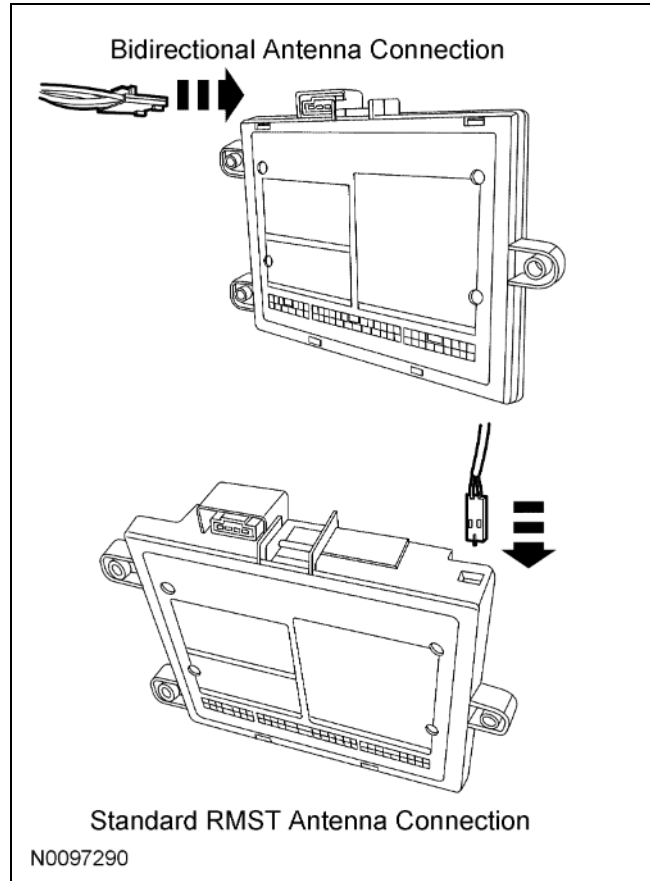
- 41. Connect hood switch ground wire to a suitable location on the bulkhead.



- 42. **NOTE:** Place the label on the radiator fan shroud or similar area.
Install the underhood warning label



- 43. Route the Gray hood safety switch wire through the bulkhead into the engine compartment and attach to the hood safety switch.
- 44. Connect the antenna to the RMST control module.



- 45. Connect the SECURILOCK interface module to the RMST control module.

Program The RMST System

- 46. Refer to the RMST programming section for this vehicle [click here](#).

Secure RMST Harness and Control Module

- 47. Use the supplied tie wraps to secure the RMST harness wires.
- 48. **NOTE:** Do not mount the control module in the knee bolster area.
Secure the control module at three points to the vehicle.
Use the supplied long tie wraps to mount the RMST control module to the underdash wiring harness.

Install Trim

- 49. Install the right hand scuff plate, cowl trim panel and fuse door panel.

INSTALLATION (Continued)

50. Assemble the upper and lower steering column shrouds, and install the 3 lower shroud screws.

52. Install the lower instrument panel steering column cover and screws.

51. Install the steering column opening trim panel reinforcement.

53. Install the left hand scuff plate and cowl trim panel.

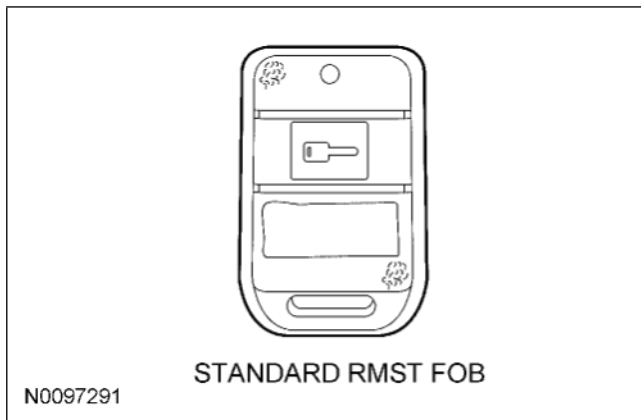
Install the 4 bolts.

- Tighten to 9 Nm (80 lb-in).
-

GENERAL PROCEDURES

Programming - Standard Remote Start

Programming the Module



- NOTE:** If the remote start options (Key-in sense polarity, door ajar polarity, or tach mode) are not programmed correctly, vehicle will not remote start or operate properly.

NOTE: Make sure that the hood and doors are closed before proceeding.

NOTE: The LED on the remote start harness must be visible to complete module programming.

NOTE: The remote start override button must be accessible.

Programming Options: Entering Programming Mode

- See chart below for programming information.

Program Bank 2 Chart (5 Honks)

BANK	OPTIONS	DESCR	LED
2	1	TACHLESS MODE	ON

- Press and hold the brake pedal.
- Turn the ignition key to the RUN position.
The dome light will turn off.

- Press and hold the remote start system override button for at least 10 seconds.

After 10 seconds the horn will honk 3 times, indicating the system is now in the learn mode.

Release the brake pedal and the RMST override button.

- Press and release the override button. The horn will honk 4 times indicating the system has entered the first program bank.

If not, please check the following:

- Brake pedal switch wire solder connection.
- Hood closed and Grey hood safety switch wire solder connection.
- All doors closed and dome light circuit wire solder connections.
- The key is in the RUN position.
- The software cartridge is firmly seated in the RMST module.
- The RMST harness connections are firmly seated in the RMST module.

NOTE: If you require additional assistance: CALL 1-800-FORD KEY.

- Press and release the override button again. The horn will honk 5 times indicating the system has entered the second program bank.
- Press and release the brake pedal.
The horn will honk 1 time indicating the system has entered the option 1 of the second program bank.

NOTICE: When turning LED on or off using remote start fob button quickly press and immediately release the remote start button.

Failure to quickly release the remote start fob button will result in system defaulting to the factory options.

- The LED must be on for option 1. If the LED is illuminated no action is required. If the LED is not illuminated press the remote start fob button and verify the LED illuminates.

GENERAL PROCEDURES (Continued)

NOTE: If the remote start fob button is held for more than 3 seconds the system will chirp the horn 4 times, indicating the system has returned to factory default settings. If this occurs return to step 1 of the programming section and reprogram the remote start module.

NOTE: The remote start module is now programmed.

10. Remove the ignition key.

Programming the SECURILOCK

NOTE: Two PATS keys are required to program the SECURILOCK.

NOTE: IMPORTANT: Each of the following steps should be completed with no more than 5 seconds delay between steps.

11. Insert the first ignition key and turn to the run position.

Watch for the PATS light to turn off. Remove the first key.

12. Insert the second ignition key and turn to the run position.

Watch for the PATS light to turn off. Remove the second key.

13. Press and hold the remote start button



for 3 seconds.
The PATS light should stay on for 3-5 seconds before turning off, which means that the SECURILOCK was successfully programmed.

NOTE: If the PATS light blinks rapidly, repeat steps 1-3 to retry programming the SECURILOCK.

NOTE: The engine will start if the Remote Start kit has been installed correctly, the brake is not depressed, and the hood and doors are closed.

GENERAL PROCEDURES

Functional Test - Standard Remote Start

NOTE: If during any of the steps of the functional test, the remote start system or vehicle doesn't react or perform accordingly, please refer to the remote start troubleshooting guide.

NOTE: For remote start troubleshooting guide [click here](#).

1. Make sure all doors are closed but hood is open and windows are down (doors will be locking).
2. Press and hold the Start button on the remote control key fob for 2-3 seconds - Horn should honk once indicating receipt of the start request.
3. The remote start systems should turn on the ignition, but then honk the horn twice and shut down indicating the hood is open.
4. Close the hood, and insert a key into the ignition switch.
5. Attempt to re-start the vehicle again using the key fob.
6. The remote start systems should turn on the ignition, but then honk the horn five times and shut down indicating a key is in the ignition switch.
7. Remove the key and open a door.
8. Attempt to re-start the vehicle again using the key fob.
9. The remote start systems should turn on the ignition, but then honk the horn three times and shut down indicating a door is open.
10. Close the door.
11. Attempt to re-start the vehicle again using the key fob.

12. Once the vehicle starts, verify that all heat and A/C functions operate normally and that the doors have locked.
13. On vehicles equipped with power window interrupt, Attempt to close windows to check power window interrupt function.
14. Once all systems have been checked, open the door*, or press the brake pedal - the remote start systems should shut down.

NOTE: *MyKey vehicle remote start systems will shut down upon vehicle entry. Please see vehicle owner's guide or remote start owner's manual for more information.

Troubleshooting

15. **NOTE:** When attempting to remote start your vehicle, the system has several safety checks that it performs. If any of these inputs are present that should not be, the system will respond back to you with several horn "chirps" to help you identify which input is present. These "chirps" will occur after initiating a start sequence with the transmitter, the system will turn on the ignition, but then respond back with several horn "chirps" and abort the starting process.

Example: Depress the remote start fob button for 3 seconds and then release. The vehicle horn will "chirp" one time to indicate that RMST signal was received. If the vehicle doesn't start and the horn "chirps" 3 times, there is a fault - "Vehicle Door is Open"

CHIRPS	PROBLEM
1 Chirp	SECURILOCK not programmed correctly, or the SECURILOCK antenna ring is damaged.
2 Chirps	BRAKE is being pressed, or the HOOD is open.
3 Chirps	One of the vehicles DOORS are open.
4 Chirps	TACH not programmed.

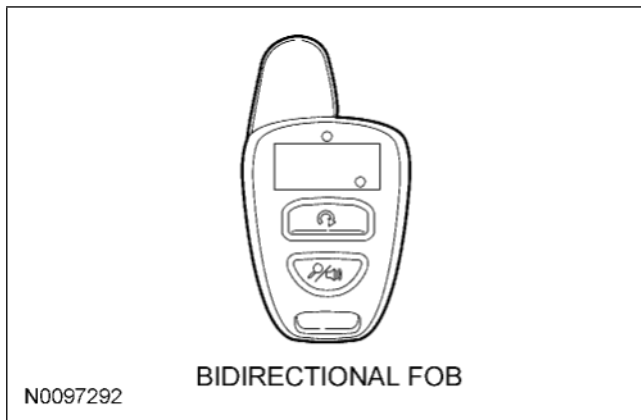
GENERAL PROCEDURES (Continued)

CHIRPS	PROBLEM
5 Chirps	The KEY is in the ignition.
6 Chirps	The remote start system is in SERVICE/VALET mode.

GENERAL PROCEDURES

Programming - Bidirectional Remote Start

Programming the Module



- NOTE:** If the remote start options (Key-in sense polarity, door ajar polarity, or tach mode) are not programmed correctly, vehicle will not remote start or operate properly.

NOTE: Make sure that the hood and doors are closed before proceeding.

NOTE: The LED on the remote start harness must be visible to complete module programming.

NOTE: The remote start override button must be accessible.

Programming Options: Entering Programming Mode

- See chart below for programming information.

Program Bank 2 Chart (5 Honks)

BANK	OPTIONS	DESCR	LED
2	1	TACHLESS MODE	ON

- Press and hold the brake pedal.
- Turn the ignition key to the RUN position.
The dome light will turn off.

- Press and hold the remote start system override button for at least 10 seconds.

After 10 seconds the horn will honk 3 times, indicating the system is now in the learn mode.

Release the brake pedal and the RMST override button.

- Press and release the override button. The horn will honk 4 times indicating the system has entered the first program bank.

If not, please check the following:

- Brake pedal switch wire solder connection.
- Hood closed and Grey hood safety switch wire solder connection.
- All doors closed and dome light circuit wire solder connections.
- The key is in the RUN position.
- The software cartridge is firmly seated in the RMST module.
- The RMST harness connections are firmly seated in the RMST module.

NOTE: If you require additional assistance: CALL 1-800-FORD KEY.

- Press and release the override button again. The horn will honk 5 times indicating the system has entered the second program bank.

- Press and release the brake pedal.

The horn will honk 1 time indicating the system has entered the option 1 of the second program bank.

NOTICE: When turning LED on or off using remote start fob button quickly press and immediately release the remote start button.

Failure to quickly release the remote start fob button will result in system defaulting to the factory options.

- The LED must be on for option 1. If the LED is illuminated no action is required. If the LED is not illuminated press the remote start fob button and verify the LED illuminates.

GENERAL PROCEDURES (Continued)

NOTE: If the remote start fob button is held for more than 3 seconds the system will chirp the horn 4 times, indicating the system has returned to factory default settings. If this occurs return to step 1 of the programming section and reprogram the remote start module.

NOTE: The remote start module is now programmed.

10. Remove the ignition key.

Programming the SECURILOCK

NOTE: Two PATS keys are required to program the SECURILOCK.


NOTE: IMPORTANT: Each of the following steps should be completed with no more than 5 seconds delay between steps.

11. Insert the first ignition key and turn to the run position.

Watch for the PATS light to turn off. Remove the first key.

12. Insert the second ignition key and turn to the run position.

Watch for the PATS light to turn off. Remove the second key.

13. Press the remote start button  twice within 3 seconds.

The PATS light should stay on for 3-5 seconds before turning off, which means that the SECURILOCK was successfully programmed.

NOTE: If the PATS light blinks rapidly, repeat steps 1-3 to retry programming the SECURILOCK.

NOTE: The engine will start if the Remote Start kit has been installed correctly, the brake is not depressed, and the hood and doors are closed.

GENERAL PROCEDURES

Functional Test - Bidirectional Remote Start

NOTE: If during any of the steps of the functional test, the remote start system or vehicle doesn't react or perform accordingly, please refer to the remote start troubleshooting guide.

NOTE: For remote start troubleshooting guide click [here](#).

1. Make sure all doors are closed but hood is open and windows are down (doors will be locking).
2. Press the Start button on the remote control key fob twice within 3 seconds - Horn should honk once indicating receipt of the start request.
3. The remote start systems should turn on the ignition, but then honk the horn twice and shut down indicating the hood is open.
4. Close the hood, and insert a key into the ignition switch.
5. Attempt to re-start the vehicle again using the key fob.
6. The remote start systems should turn on the ignition, but then honk the horn five times and shut down indicating a key is in the ignition switch.
7. Remove the key and open a door.
8. Attempt to re-start the vehicle again using the key fob.
9. The remote start systems should turn on the ignition, but then honk the horn three times and shut down indicating a door is open.
10. Close the door.
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12. Once the vehicle starts, verify that all heat and A/C functions operate normally and that the doors have locked.
13. On vehicles equipped with power window interrupt, Attempt to close windows to check power window interrupt function.
14. Once all systems have been checked, open the door*, or press the brake pedal - the remote start systems should shut down.

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CHIRPS	PROBLEM
1 Chirp	SECURILOCK not programmed correctly, or the SECURILOCK antenna ring is damaged.
2 Chirps	BRAKE is being pressed, or the HOOD is open.
3 Chirps	One of the vehicles DOORS are open.
4 Chirps	TACH not programmed.

'14 Mustang

TYPE "A" CUSTOM WIRE HARNESS

RMST MODULE WIRE HARNESS

STEERING COLUMN HARNESS

Color	Function
A-3 PINK	Ignition Input/Output
A-2 ORANGE	HVAC Output
A-13 VIOLET	Starter Output
B-8 BLACK/WHITE	Key-in-sense Input
A-4 RED	Battery

Color	Function
A-21 BROWN/BLACK	Horn Relay Output

DRIVER'S KICK PANEL HARNESS

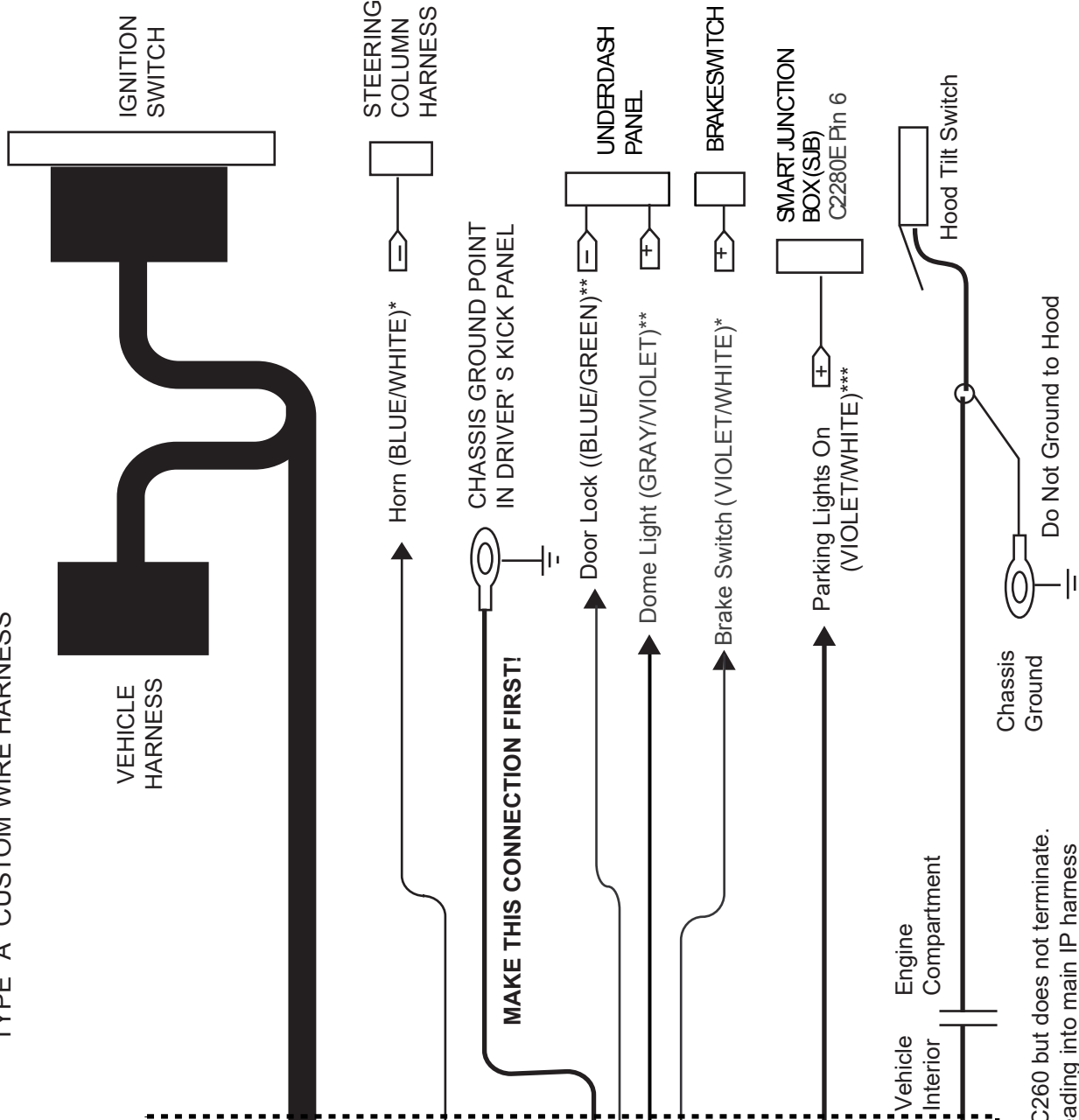
Color	Function
A-5 BLACK	Ground
A-24 BLUE	Door Lock Output
A-2 GREEN/VIOLET	Door Ajar Switch Input
B-7 BROWN	Brake Input

HEADLAMP SWITCH HARNESS

Color	Function
A-1 WHITE	Parking Light Output

UNDER HOOD HARNESS

Color	Function
A-19 GRAY	Hood Open Switch Input



*Wire is located inside wire convolute running to connector C260 but does not terminate. Wire can be found within 2-6" from connector on the side heading into main IP harness in a looped fashion underneath bright green tape.

**Wire is located inside wire loom running to connector C260 but does not terminate. Wire can be found 4" from connector on the side heading toward the bulkhead of the vehicle in a looped fashion underneath bright green tape.

*** Post-J1 Running Change: Wire is located inside wire loom running to connector C260 but does not terminate. Wire can be found 4" from connector on the side heading toward the bulkhead of the vehicle in a looped fashion underneath bright green tape.