

INSTALLATION NOTES

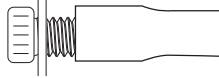
- When working on a vehicle, always roll down a window to avoid being locked out of the car.
- Make all necessary connections (wiring diagram) in the truck BEFORE plugging in the modules.
- Never install the cabin module where it could interfere with normal operation or obstruct service technicians.
- Use caution near airbag wires and connectors as they are not always labeled (i.e. yellow split loom/tubing). Disconnecting an airbag connector with the ignition turned on may cause deployment.
- To avoid breaking the plastic fastenings, be gentle when disassembling the dash and interior panels.
- Use extreme caution if the vehicle was parked outside in very cold weather.
- Ensure the vehicle 12V battery is disconnected while splicing into the vehicle harness. This may include an accessory battery (see your vehicle's owner's manual).

POSI-TAP INSTRUCTIONS

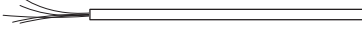
A. INSERT



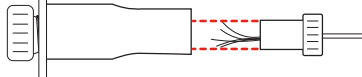
B. TIGHTEN



C. STRIP 3/8"



D. INSERT &
TIGHTEN



NOTE: Twist for 2 or more wires.

Part Numbers

551 460 (PTA2022)

551 461 (PTA1800M)

551 462 (PTA1618)

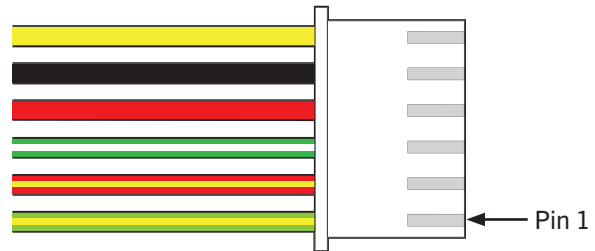
551 463 (PTA1218M)

551 464 (PTA1012)

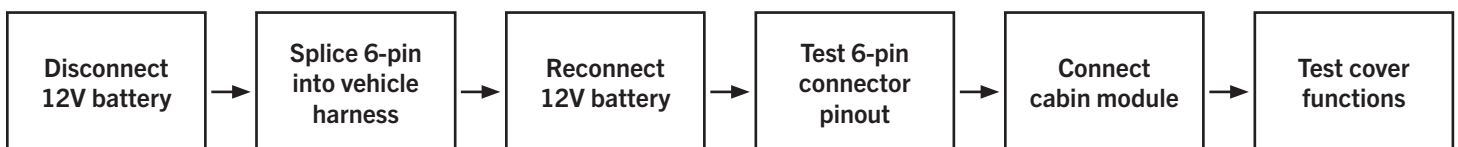


CABIN MODULE 6-PIN CONNECTOR PINOUT

Yellow	–	Ignition
Black	–	Ground
Red	–	12V Power
Green/White	–	Not Connected
Red/Yellow	–	Disarm
Green /Yellow	–	Arm



INSTALLATION SUMMARY The following steps should be followed to ensure the cabin module is connected to the vehicle properly.



Covered Makes and Model Years

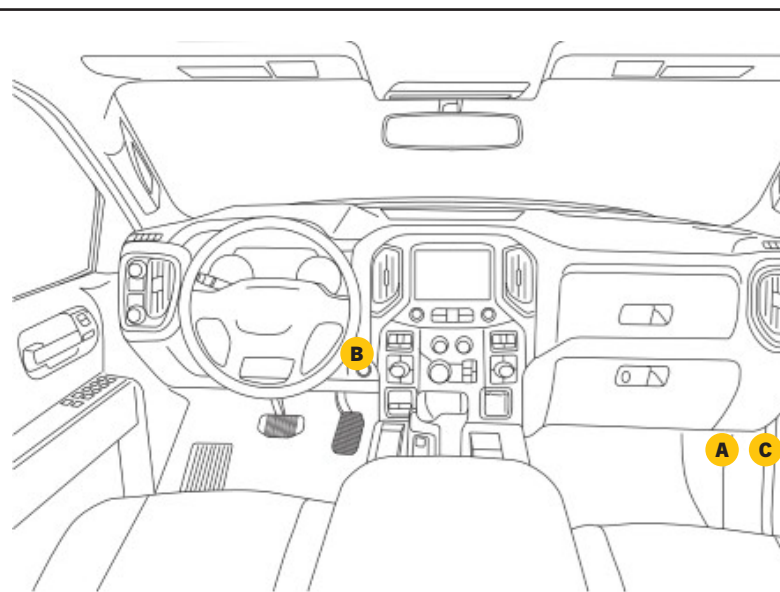
Year	Make / Model		Wire Guide
2021-2023	Ford F-150	(Manual key)	FO-7
2021-2023	Ford F-150 Hybrid	(Manual key)	FO-7
2021-2023	Ford F-150	(Smart key)	FO-8
2021-2023	Ford F-150 Hybrid	(Smart key)	FO-8
2022-2026	Ford F-150 Lightning	(Smart key)	FO-8
2024-2026	Ford F-150	(Manual key)	FO-13
2024-2026	Ford F-150 Hybrid	(Manual key)	FO-13
2024-2026	Ford F-150	(Smart key)	FO-14
2024-2026	Ford F-150 Hybrid	(Smart key)	FO-14

1

Disconnect 12V battery.

FO-7

Wire Splice Instructions (FO-7)



- A** BCM in passenger kick - Black 22-pin plug (J7-G)
- B** Ignition switch driver dash - Black 6-pin plug
- C** BCM in passenger kick - Black 36-pin plug (J3-C)

2

FO-7

Cabin module ■ red - 12V power

TO

Black 22-pin connector (J7-G)

A BCM in passenger kick

Pin 22 ■ Red -12V (40A)

Cabin module ■ black ground

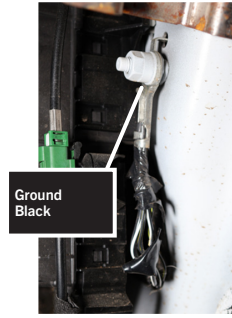
TO

Ground stud next to

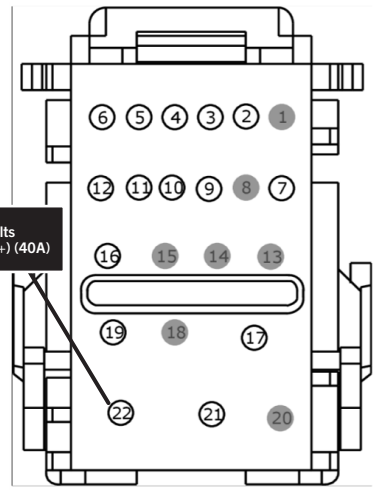
A BCM in passenger kick

Wire color ■ black

BCM in passenger kick
Black 22-Pin Plug (J7-G)



12 Volts
Red (+) (40A)



3

FO-7

Cabin module ■ yellow - ignition

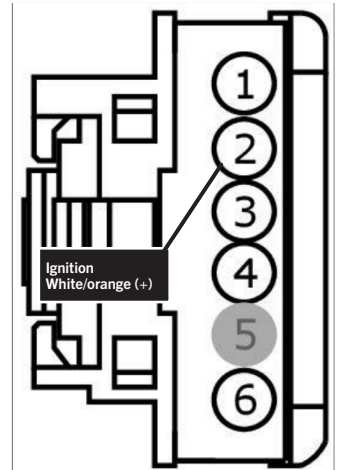
TO

Black 6-pin plug

B Ignition switch

Pin 2 ■ White with orange stripe - Ignition

Ignition switch
Black 6-pin plug



Ignition
White/orange (+)

4

FO-7

Cabin module ■ green with yellow stripe - Arm

TO

Black 36-pin plug (J3-C)

C BCM in passenger kick

Pin 35 ■ Gray with brown stripe - Lock

Cabin module ■ red with yellow stripe - Disarm

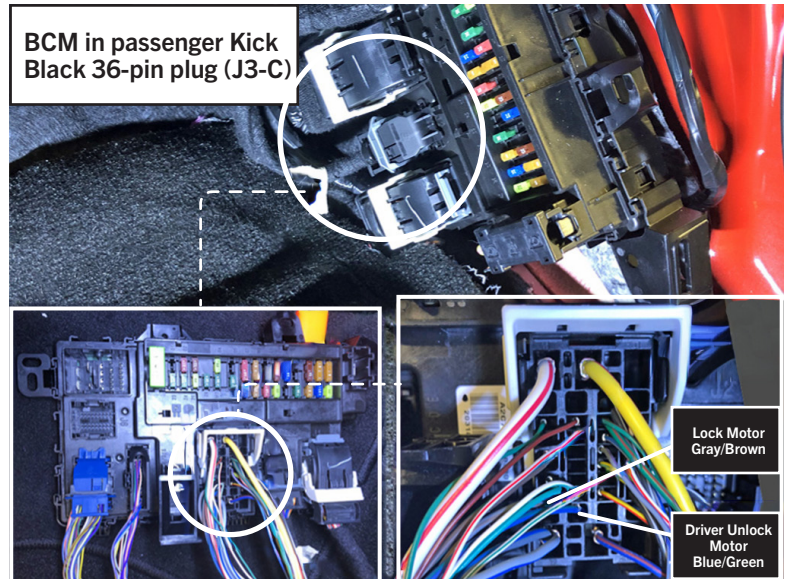
TO

Black 36-pin plug (J3-C)

C BCM in passenger kick

Pin 27 ■ Blue with green stripe - Unlock

BCM in passenger Kick
Black 36-pin plug (J3-C)



Lock Motor
Gray/Brown

Driver Unlock
Motor
Blue/Green

5

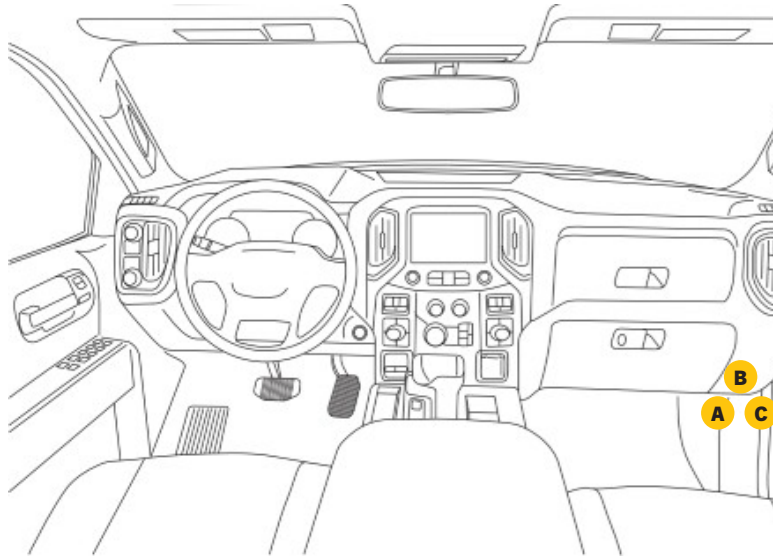
FO-7

Reconnect 12V battery. Continue on page 10.

1

Disconnect 12V battery.

FO-8

Wire Splice Instructions (FO-8)

- A** BCM in passenger kick - Black 22-pin plug (J7-G)
- B** BCM in passenger kick - Gray 22-pin plug (J1-A)
- C** BCM in passenger kick - Black 36-pin plug (J3-C)

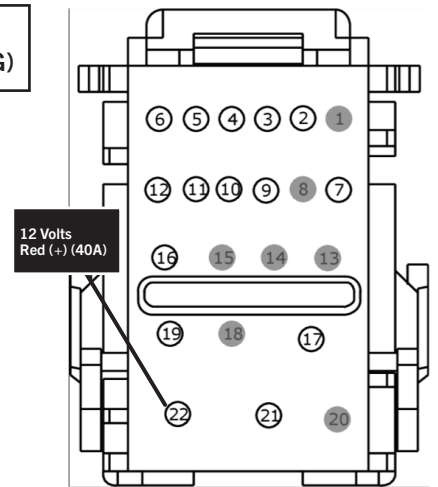
2

FO-8

Cabin module ■ red - 12V power
TO
 Black 22-pin connector (J7-G)
A BCM in passenger kick
 Pin 22 ■ Red -12V (40A)

Cabin module ■ black ground
TO
 Ground stud next to
A BCM in passenger kick
 Wire color ■ black

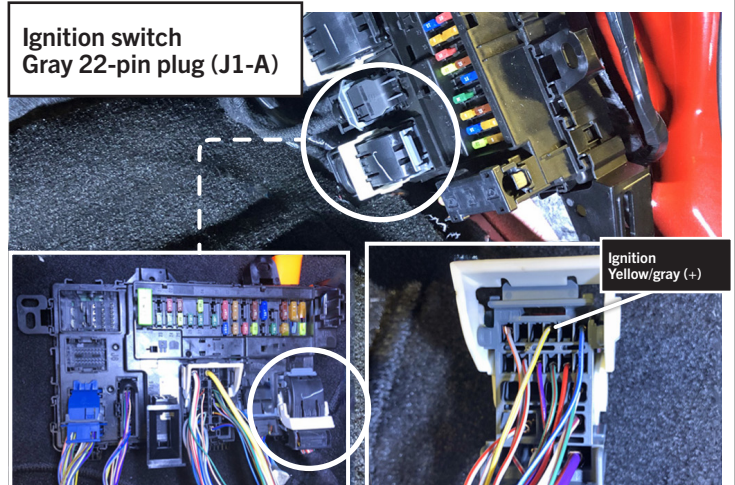
BCM in passenger kick
 Black 22-Pin Plug (J7-G)

**3**

FO-8


Cabin module ■ yellow - ignition
TO
 Gray 22-pin plug (J1-A)
B BCM in passenger kick
 Pin 4 ■ Yellow with gray stripe -Ignition

Ignition switch
 Gray 22-pin plug (J1-A)




4


F0-8


Cabin module  green with yellow stripe - Arm

TO

Black 36-pin plug (J3-C)


 BCM in passenger kick

Pin 35  Gray with brown stripe -Lock

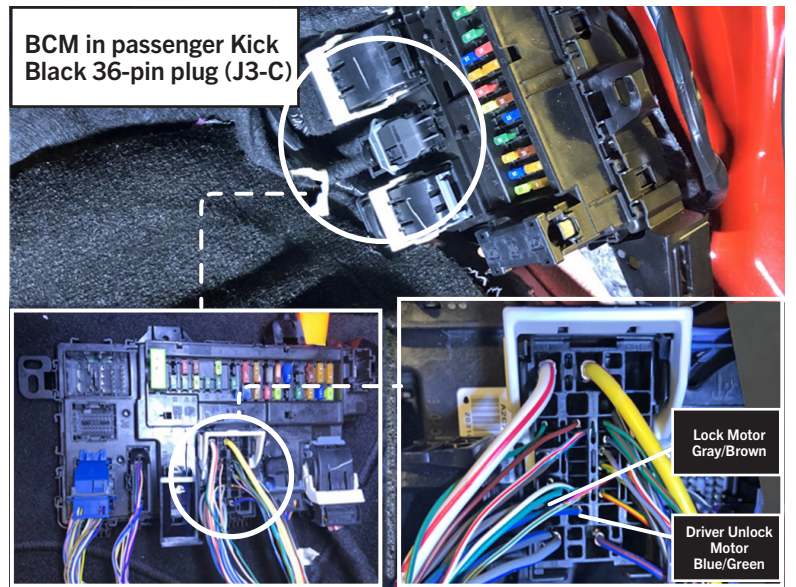
Cabin module  red with yellow stripe - Disarm

TO

Black 36-pin plug (J3-C)

 BCM in passenger kick

Pin 27  Blue with green stripe - Unlock



5

F0-8

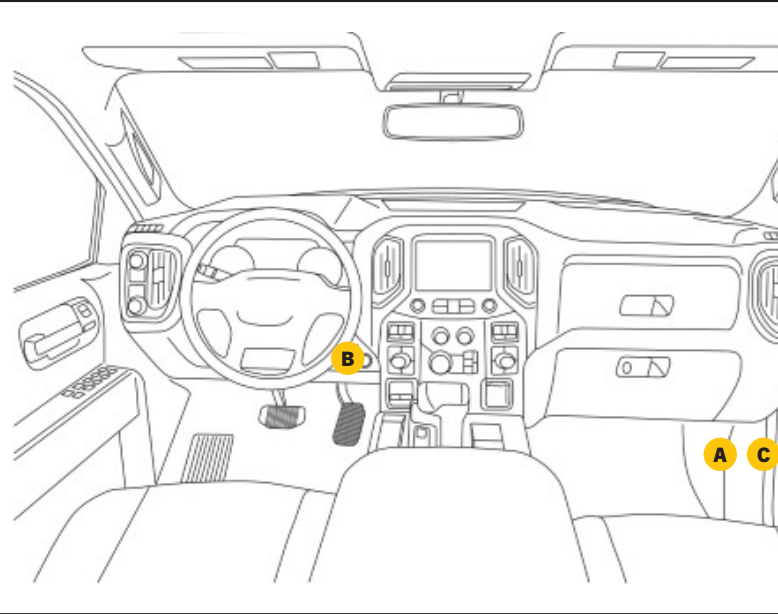
Reconnect 12V battery. Continue on page 10.

1

Disconnect 12V battery.

FO-13

Wire Splice Instructions (FO-13)



- A** BCM in passenger kick - Black 36-pin connector (J2-F)
- B** Ignition switch driver dash - Black 6-pin connector
- C** BCM in passenger kick - Black/Gray 22-pin plug (J3-C)

2

FO-13

Cabin module ■ red - 12V power
TO

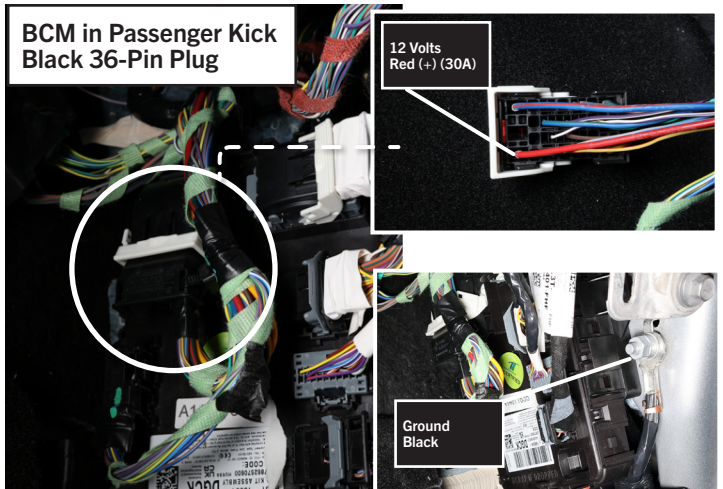
Black 36-pin connector (J2-F)

- A** BCM in passenger kick
Pin 9 ■ Red -12V (30A)

Cabin module ■ black ground
TO

Ring terminal next to

- A** BCM in passenger kick
Wire color ■ black



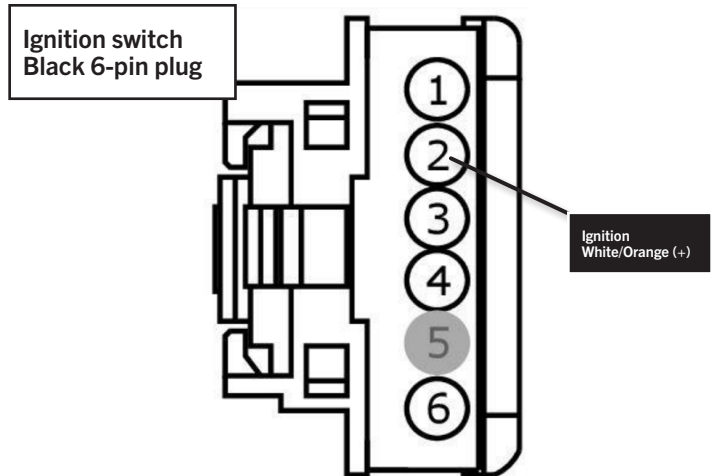
3

FO-13

Cabin module ■ yellow - ignition
TO


Black 6-pin connector

- B** Ignition switch
Pin 2 ■ White with orange stripe - Ignition



4


FO-13


Cabin module  green with yellow stripe - Arm

TO

Black/Gray 22-pin connector

C BCM in passenger kick (J3-C)

Pin 16  Gray with brown stripe - Lock

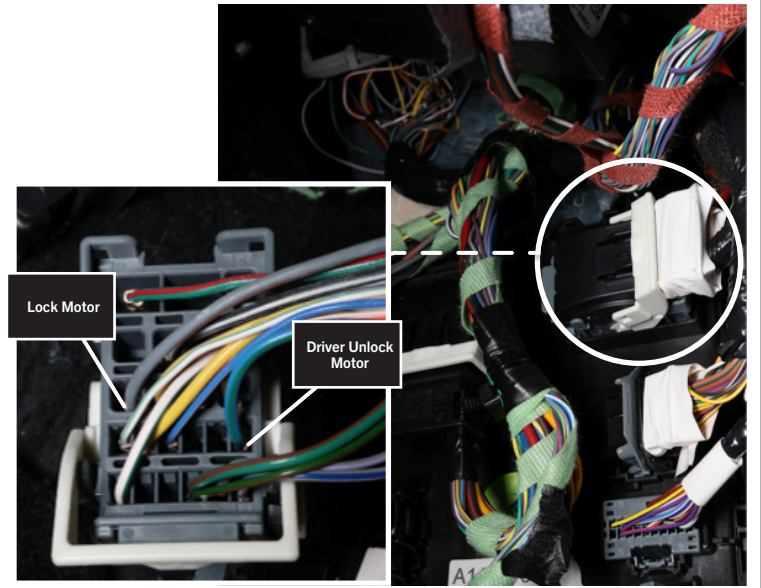
Cabin module  red with yellow stripe - Disarm

TO

Black/Gray 22-pin connector

C BCM in passenger kick (J3-C)

Pin 7  Blue with green stripe - Unlock



5

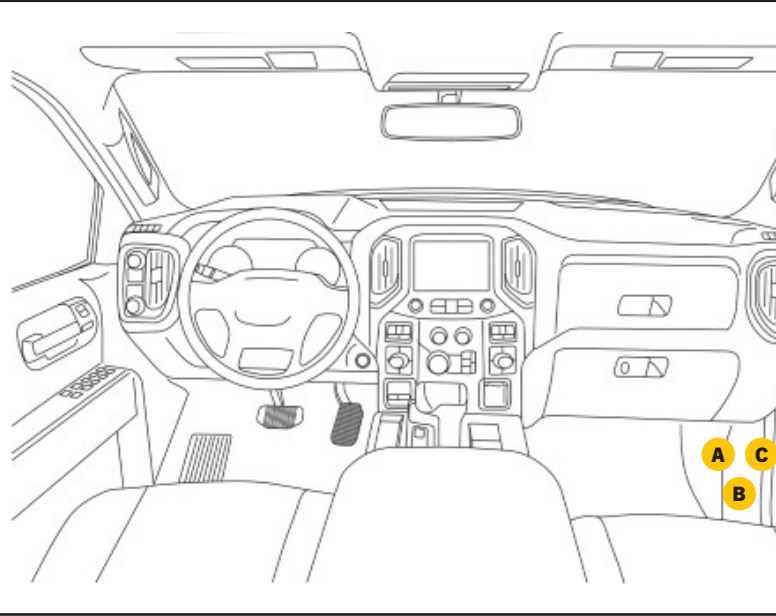
FO-13

Reconnect 12V battery. Continue on page 10.

1

Disconnect 12V battery.

FO-14

Wire Splice Instructions (FO-14)

- A** BCM in passenger kick - Black 36-pin connector (J2-F)
- B** Passenger kick fuse box - Black 9-pin connector
- C** BCM in passenger kick - Black/Gray 22-pin plug (J3-C)

2

FO-14

Cabin module ■ red - 12V power
TO

Black 36-pin connector (J2-F)

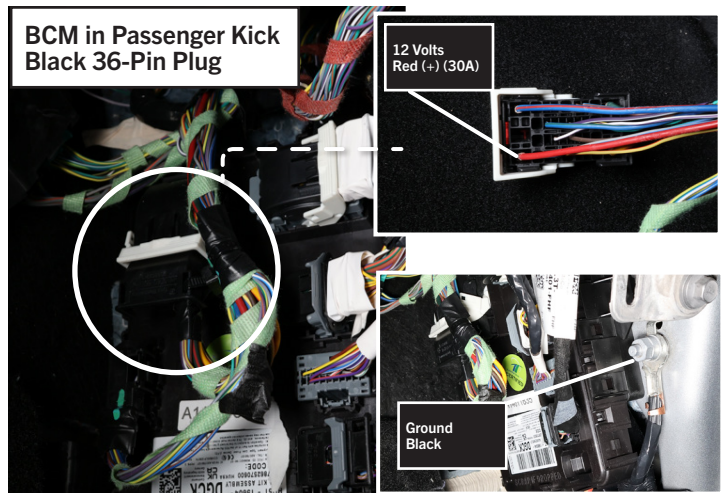
- A** BCM in passenger kick
Pin 9 ■ Red -12V (30A)

Cabin module ■ black ground
TO

Ring terminal next to

- A** BCM in passenger kick
Wire color ■ black

BCM in Passenger Kick
Black 36-Pin Plug

**3**

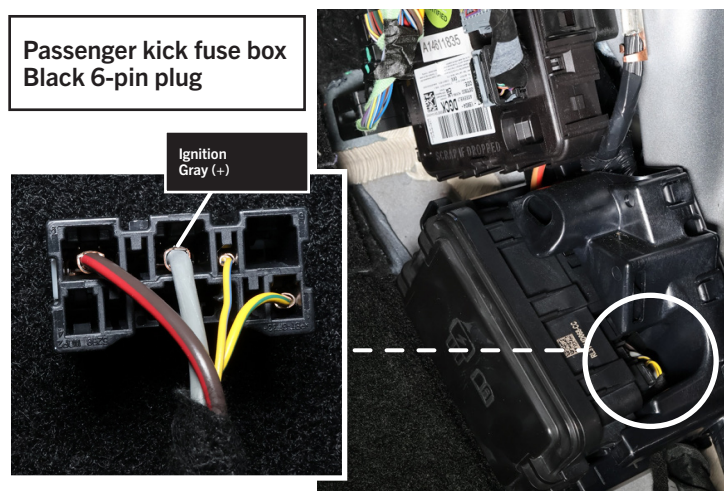
FO-14

Cabin module ■ yellow - ignition
TO

Black 9-pin connector


- B** Passenger kick fuse box
Pin 7 ■ Gray - Ignition

Passenger kick fuse box
Black 6-pin plug




4


FO-14


Cabin module  green with yellow stripe - Arm

TO

Black/Gray 22-pin connector


 BCM in passenger kick (J3-C)

Pin 16  Gray with brown stripe - Lock

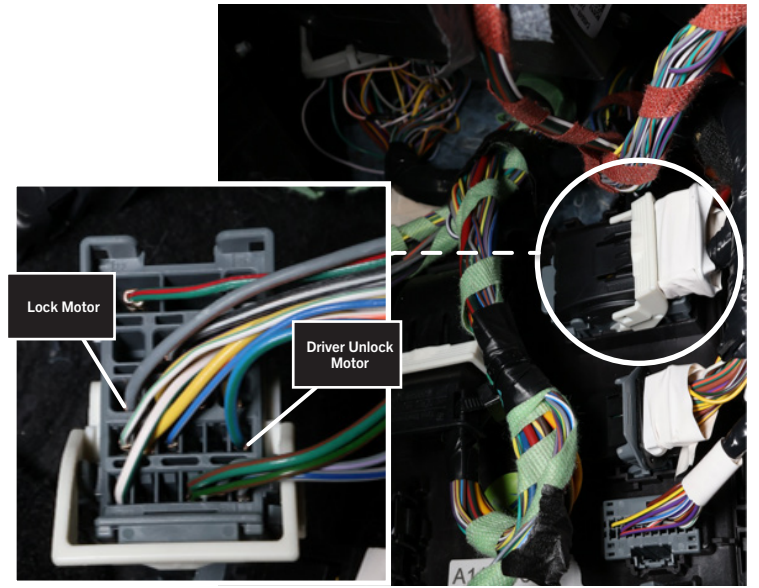
Cabin module  red with yellow stripe - Disarm

TO

Black/Gray 22-pin connector

 BCM in passenger kick (J3-C)

Pin 7  Blue with green stripe - Unlock



5

FO-14

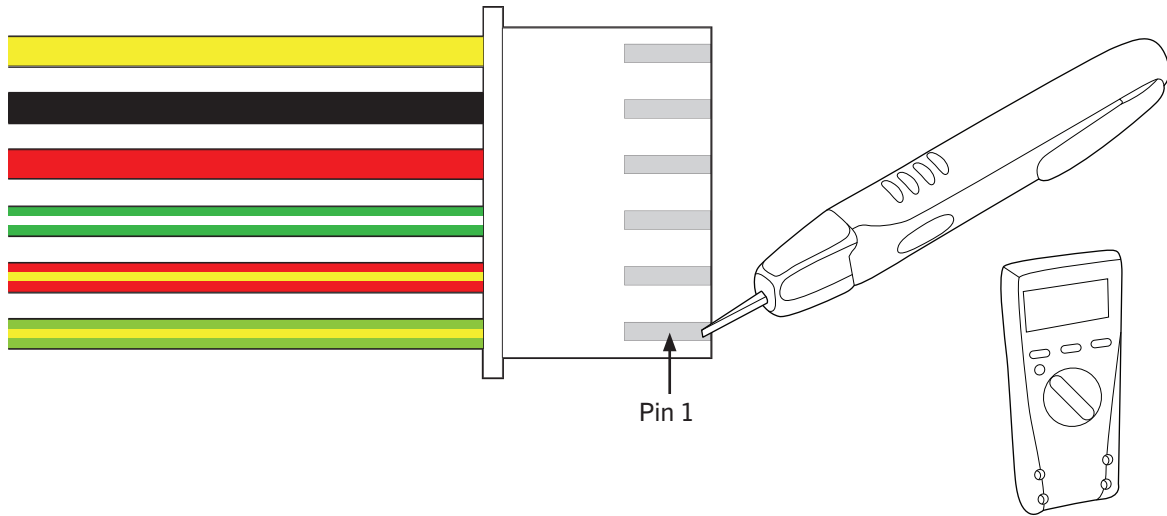
Reconnect 12V battery. Continue on page 10.

Test 6-pin Connector Pinout

6

Use a test light and multimeter to check the connections.

FO-7
FO-8
FO-13
FO-14



Test 6-pin Connector Pinout

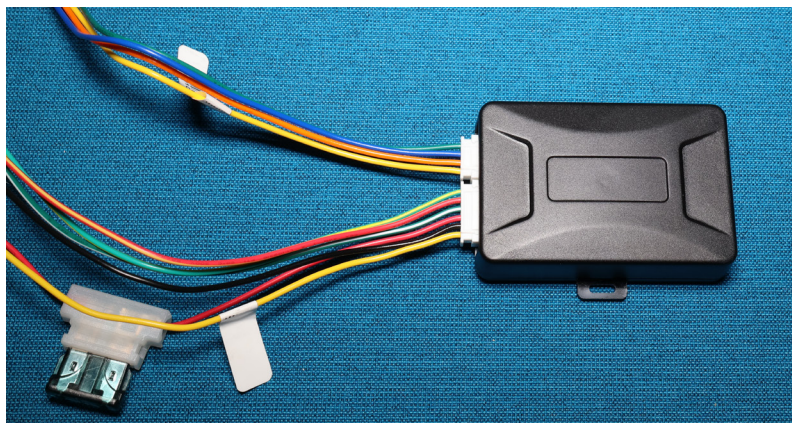
Yellow (Ignition)	Check that when the vehicle is OFF, the test light is OFF. Check that when the vehicle ignition is on or engine is running, the test light is ON.
Black ground	Check the resistance to chassis ground, the resistance should be less than 5.0hm
Red (12V power)	Check that the test light is ON.
Red/yellow (disarm)	Check that when the Unlock button on the FOB is pressed, the test light flashes ON then OFF.
Green/yellow (arm)	Check that when the Lock button on the FOB is pressed the Test light flashes ON then OFF.

Connect the Cabin Module

7

Connect the Cabin Module 6-pin connector that goes to the vehicle harness. Connect the Cabin Module 4-pin connector that goes to the Cover Module.

FO-7
FO-8
FO-13
FO-14



Test the Cover Functions

8

Connect the Cabin Module 6-pin connector that goes to the vehicle harness. Connect the Cabin Module 4-pin connector that goes to the Cover Module.

FO-7
FO-8
FO-13
FO-14

- a. With the tailgate open, disengage the cover from the cables and move to the full open position.
- b. Unlock the vehicle with the FOB (one press).
- c. Press the close button on the rail switch (cables will move to the end of the rail).
- d. Re-engage the cover with the cables at the full closed position.
- e. Press the open button on the rail switch. Cover should move to the open position slowly.
- f. Close the tailgate.
- g. Press the close button on the rail switch. Cover should move to the close position at normal speed.
- h. Press the unlock button on the FOB 3x. Cover should move to the open position at normal speed.
- i. Press the lock button on the FOB 3x. Cover should move to the close position at normal speed.
- j. START the engine.
- k. Press the unlock button on the FOB 3x. Cover should not move.
- l. Turn OFF the engine.
- m. Press the unlock button on the FOB 3x. Cover should move to the open position at normal speed.