

## INSTALLATION NOTES

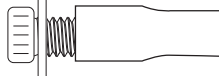
- When working on a vehicle, always roll down a window to avoid being locked out of the car.
- Make all necessary connections (wiring diagram) in the truck BEFORE plugging in the modules.
- Never install the cabin module where it could interfere with normal operation or obstruct service technicians.
- 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

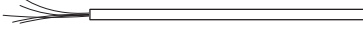
A. INSERT



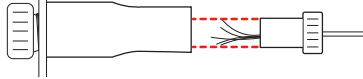
B. TIGHTEN



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)

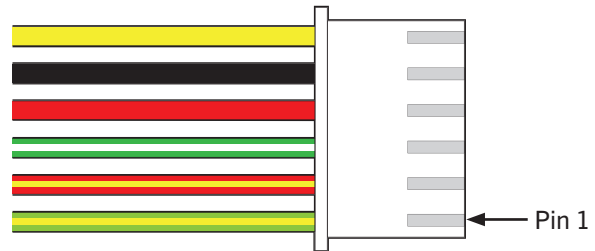
551 463 (PTA1218M)

551 464 (PTA1012)

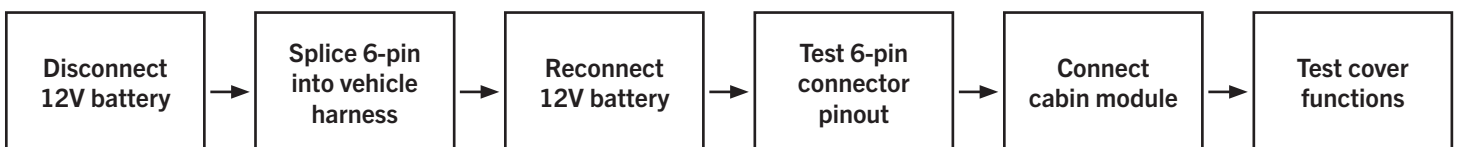


## CABIN MODULE 6-PIN CONNECTOR PINOUT

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

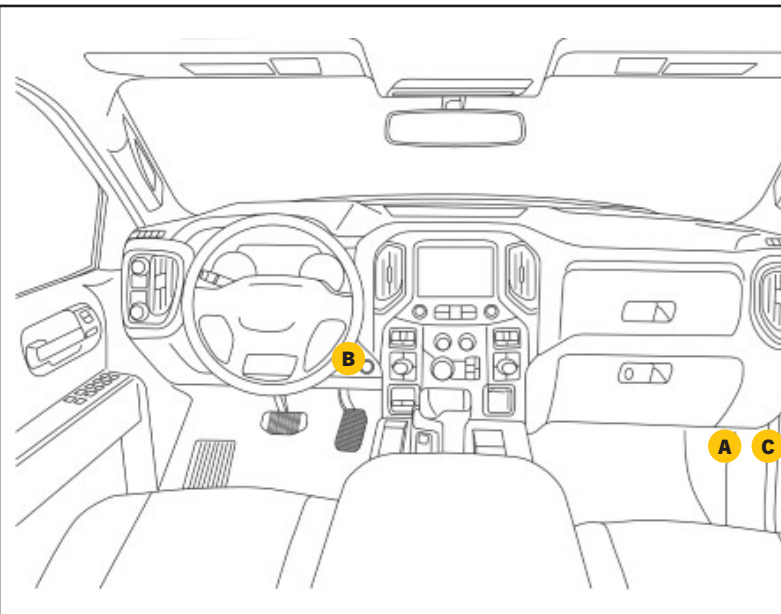
Year	Make / Model		Wire Guide
2018-2021	Ford F-250	(Manual key)	FO-3
2018-2021	Ford F-350	(Manual key)	FO-3
2018-2021	Ford F-450	(Manual key)	FO-3
2018-2021	Ford F-250	(Smart key)	FO-4
2018-2021	Ford F-350	(Smart key)	FO-4
2018-2021	Ford F-450	(Smart key)	FO-4
2022	Ford F-250	(Manual key)	FO-9
2022	Ford F-350	(Manual key)	FO-9
2022	Ford F-450	(Manual key)	FO-9
2022	Ford F-250	(Smart key)	FO-10
2022	Ford F-350	(Smart key)	FO-10
2022	Ford F-450	(Smart key)	FO-10
2023-2026	Ford F-250	(Manual key)	FO-11
2023-2026	Ford F-350	(Manual key)	FO-11
2023-2026	Ford F-450	(Manual key)	FO-11
2023	Ford F-550	(Manual key)	FO-11
2023-2026	Ford F-250	(Smart key)	FO-12
2023-2026	Ford F-350	(Smart key)	FO-12
2023-2026	Ford F-450	(Smart key)	FO-12

**1**

Disconnect 12V battery.

FO-3

## Wire Splice Instructions (FO-3)



- A** BCM in passenger kick - Black 22-pin plug (J7-G)
- B** Ignition switch driver dash - Black 7-pin plug
- C** BCM in passenger kick - Black 35-pin plug (J3-C)

## 2

FO-3

Cabin module ■ red - 12V power

TO

Black 22-pin connector (J7-G)

**A** BCM in passenger kick

Pin 22 ■ Violet with red stripe -12V (50A)

Cabin module ■ black ground

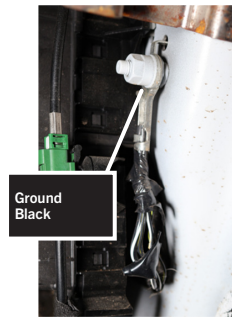
TO

Ground stud next to

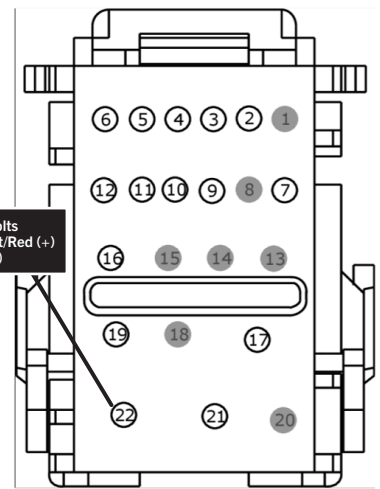
**A** BCM in passenger kick

Wire color ■ black

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



12 Volts  
Violet/Red (+)  
(50A)



## 3

FO-3

Cabin module ■ yellow - ignition

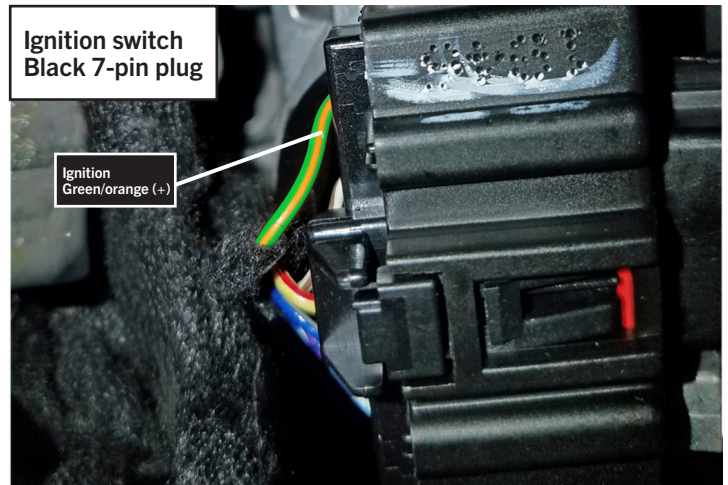
TO

Black 7-pin plug

**B** Ignition switch driver dash

Pin 1 ■ Green with orange stripe -Ignition

Ignition switch  
Black 7-pin plug



## 4

FO-3

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

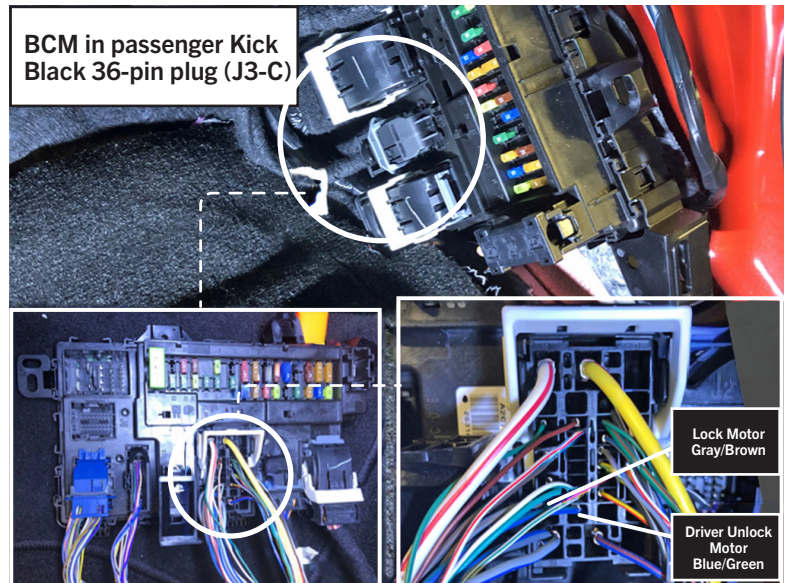
TO

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)



## 5

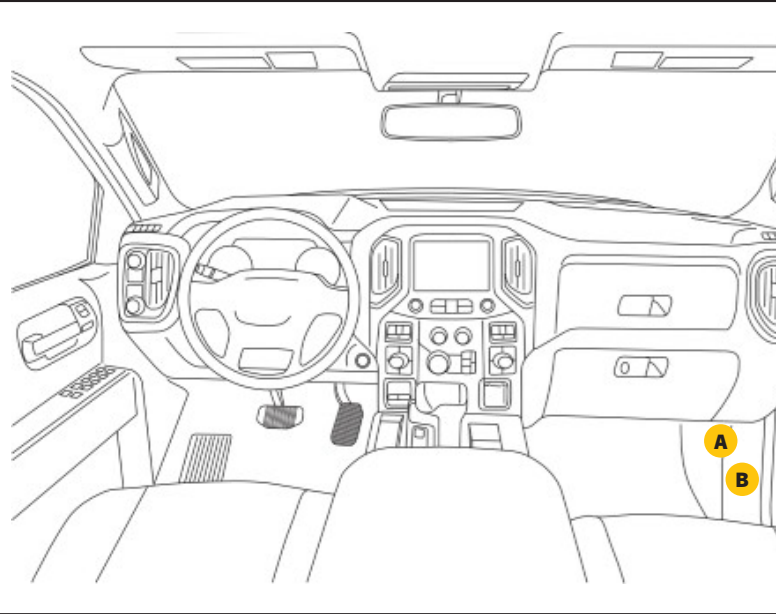
FO-3

Reconnect 12V battery. Continue on page 14.

**1**

Disconnect 12V battery.

FO-4

**Wire Splice Instructions (FO-4)****A** BCM in passenger kick - Black 22-pin plug (J7-G)**B** BCM in passenger kick - Black 36-pin plug (J3-C)**2**

FO-4

Cabin module ■ red - 12V power

TO

Black 22-pin connector (J7-G)

**A** BCM in passenger kick

Pin 22 ■ Violet with red stripe -12V (50A)

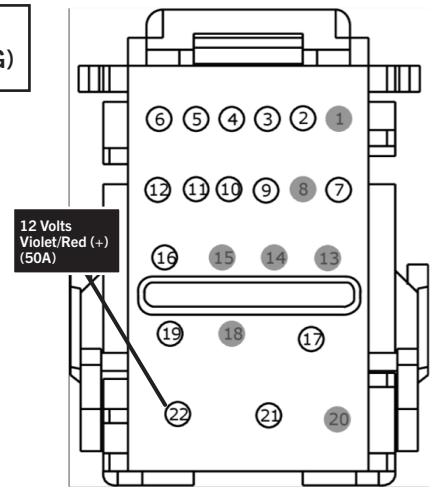
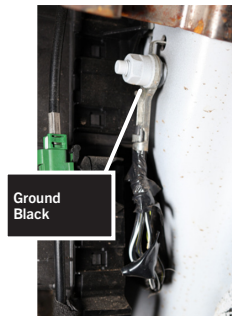
Cabin module ■ black ground

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-4

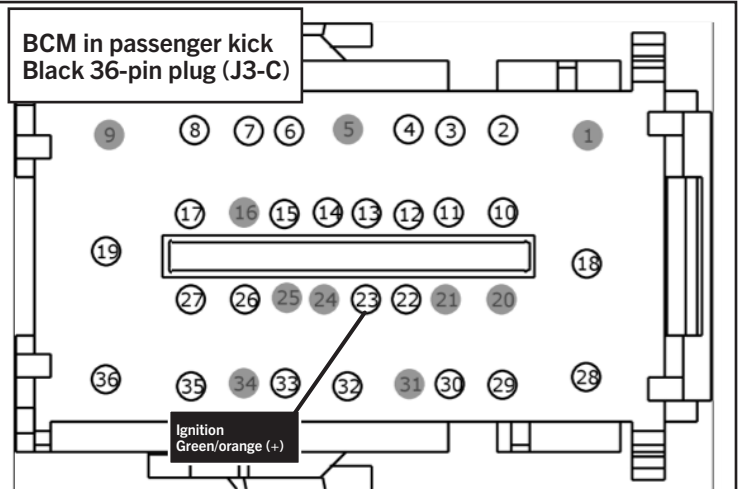
Cabin module ■ yellow - ignition

TO

Black 36-pin plug (J3-C)


**B** BCM in passenger kick

Pin 23 ■ Green with orange stripe -Ignition

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


4


FO-4


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

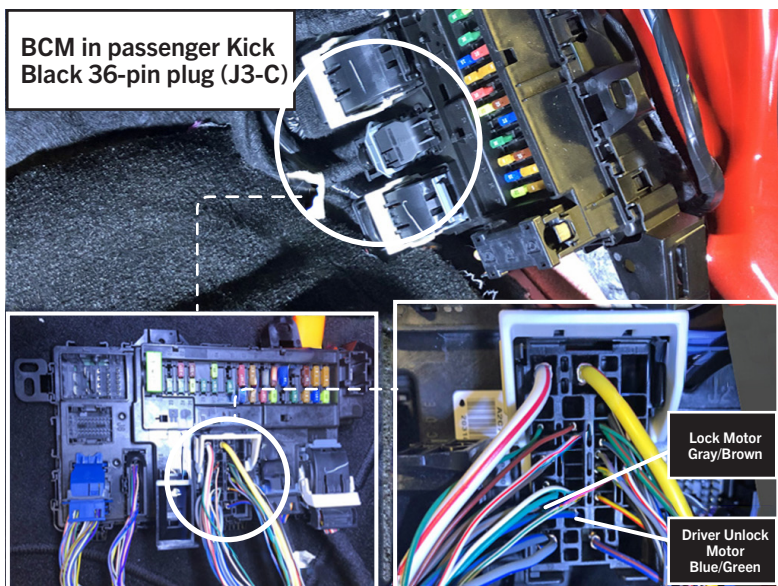
Cabin module  red with yellow stripe - Disarm

TO

Black 36-pin plug (J3-C)

 BCM in passenger kick

Pin 27  Blue with green stripe - Unlock



5

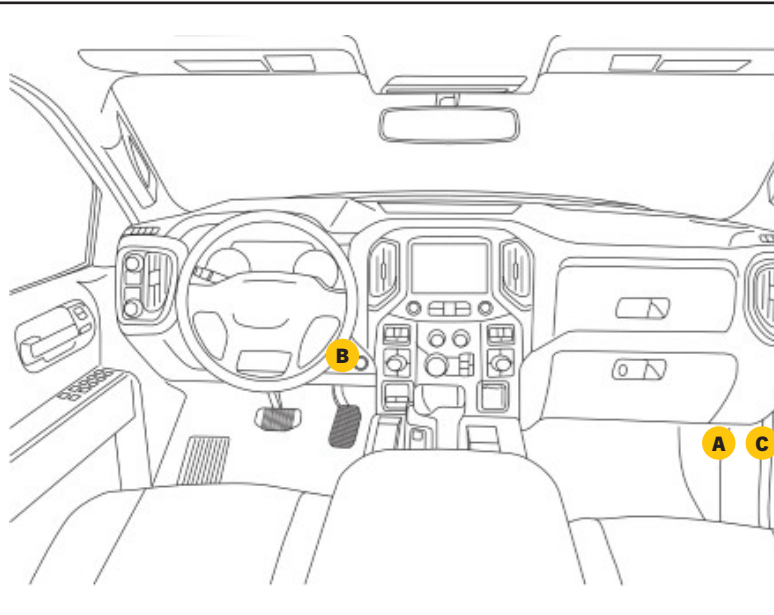
FO-4

Reconnect 12V battery. Continue on page 14.

**1**

Disconnect 12V battery.

FO-9

**Wire Splice Instructions (FO-9)**

- A** BCM in passenger kick - Black 22-pin plug (J7-G)
- B** Ignition switch driver dash - Black 7-pin plug
- C** BCM in passenger kick - Black 35-pin plug (J3-C)

**2**

FO-9

Cabin module ■ red - 12V power

TO

Black 22-pin connector (J7-G)

- A** BCM in passenger kick

Pin 22 ■ Violet with red stripe -12V (40A)

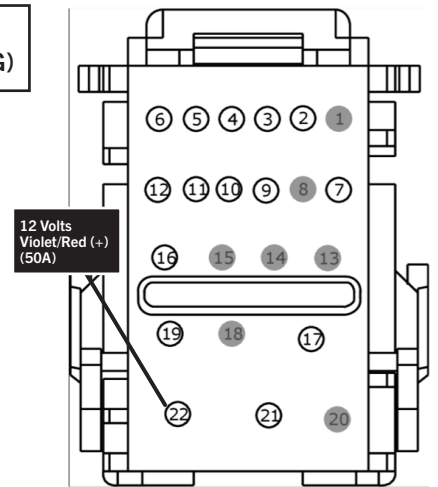
Cabin module ■ black ground

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-9

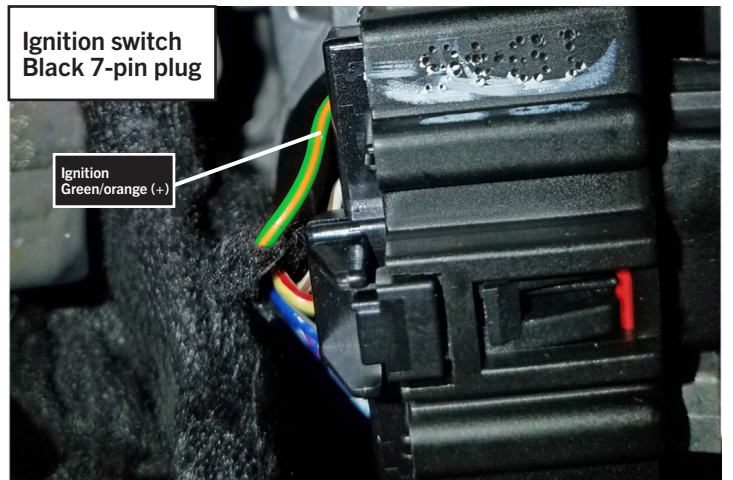
Cabin module ■ yellow - ignition

TO

Black 7-pin plug


- B** Ignition switch driver dash

Pin 1 ■ Green with orange stripe -Ignition

Ignition switch  
Black 7-pin plug


# 4


F0-9


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

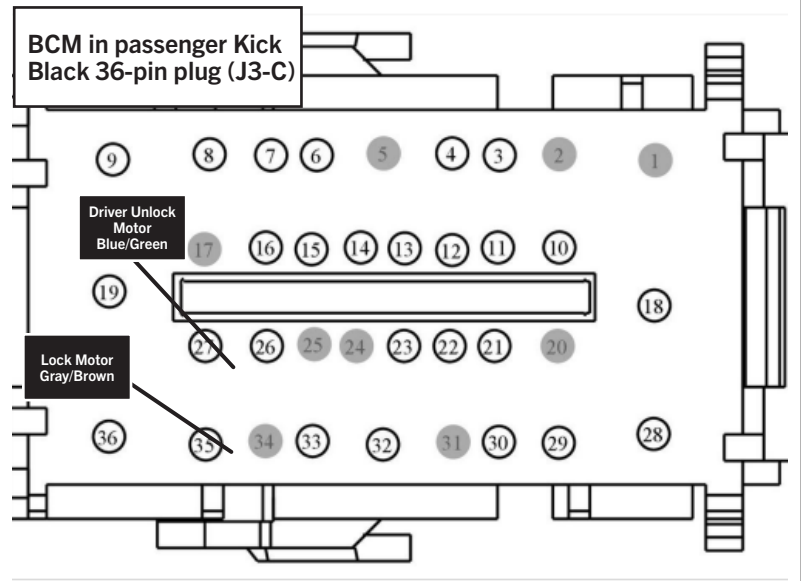
Cabin module  red with yellow stripe - Disarm

TO

Black 36-pin plug (J3-C)

 BCM in passenger kick

Pin 27  Blue with green stripe - Unlock



# 5

F0-9

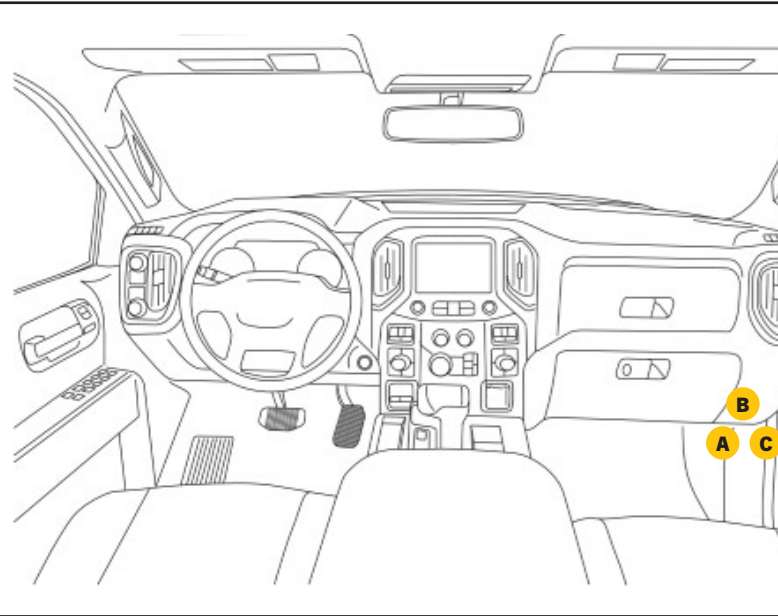
Reconnect 12V battery. Continue on page 14.

**1**

Disconnect 12V battery.

FO-10

**Wire Splice Instructions (FO-10)**



- 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 35-pin plug (J3-C)

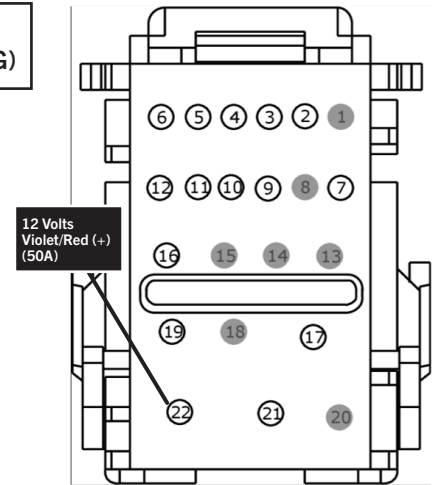
**2**

FO-10

Cabin module ■ red - 12V power  
**TO**  
 Black 22-pin connector (J7-G)  
**A** BCM in passenger kick  
 Pin 22 ■ Violet with red stripe -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)



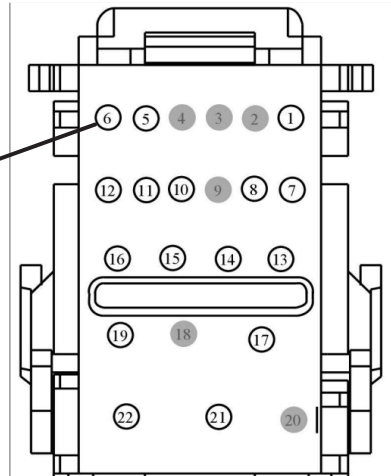
**3**

FO-10

Cabin module ■ yellow - ignition  
**TO**  
 Gray 22-pin plug (J1-A)  
**B** BCM in passenger kick  
 Pin 6 ■ Blue with gray stripe -Ignition


BCM in passenger Kick  
Gray 22-pin plug

Ignition  
Blue/gray (+)




4


FO-10


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

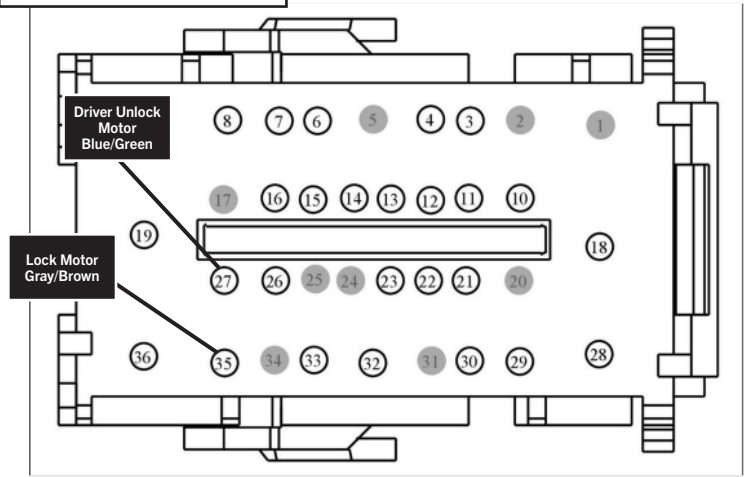
TO

Black 36-pin plug (J3-C)

 BCM in passenger kick

Pin 27  Blue with green stripe - Unlock

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



5

FO-10

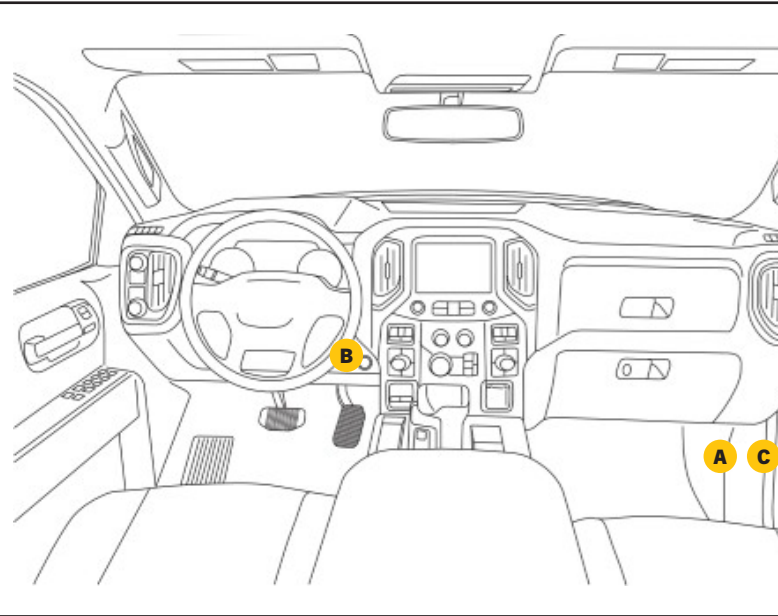
Reconnect 12V battery. Continue on page 14.

**1**

Disconnect 12V battery.

FO-11

**Wire Splice Instructions (FO-11)**



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

**2**

FO-11

Cabin module ■ red - 12V power  
TO

Black 36-pin connector (J2-B)

- 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



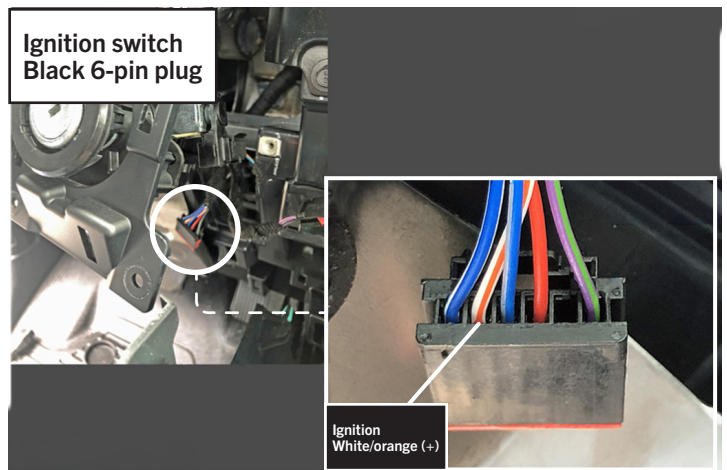
**3**

FO-11

Cabin module ■ yellow - ignition  
TO


Black 6-pin connector

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



4

FO-11


Cabin module  green with yellow stripe - Arm

TO

Black with gray 22-pin connector

**C** BCM in passenger kick (J3-C)

Pin 16  Gray -Lock

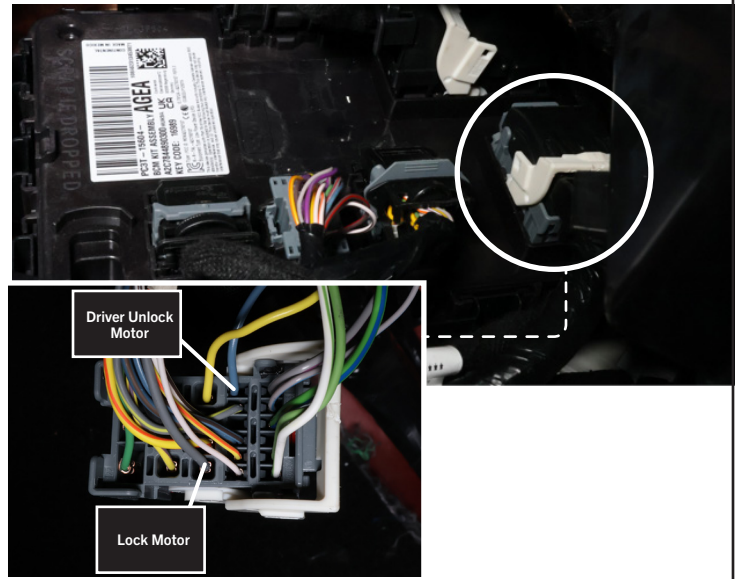
Cabin module  red with yellow stripe - Disarm

TO

Black with gray 22-pin connector

**C** BCM in passenger kick (J3-C)

Pin 7  Blue - Unlock



5

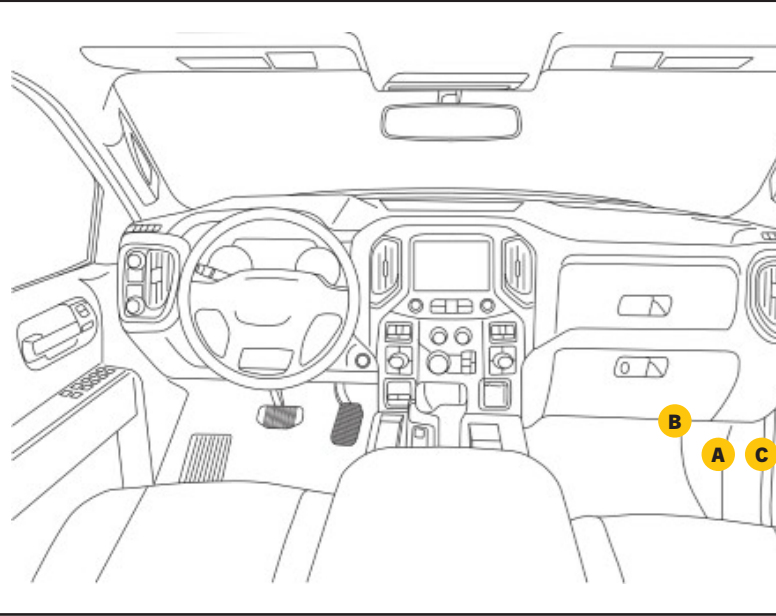
FO-11

Reconnect 12V battery. Continue on page 14.

**1**

Disconnect 12V battery.

FO-12

**Wire Splice Instructions (FO-12)**

- A** BCM in passenger kick - Black 36-pin connector (J2-B)
- B** Passenger dash fuse box - Black 50-pin connector
- C** BCM in passenger kick - Black/Gray 22-pin plug (J3-C)

**2**

FO-12

Cabin module ■ red - 12V power  
TO

Black 36-pin connector (J2-B)

- 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**

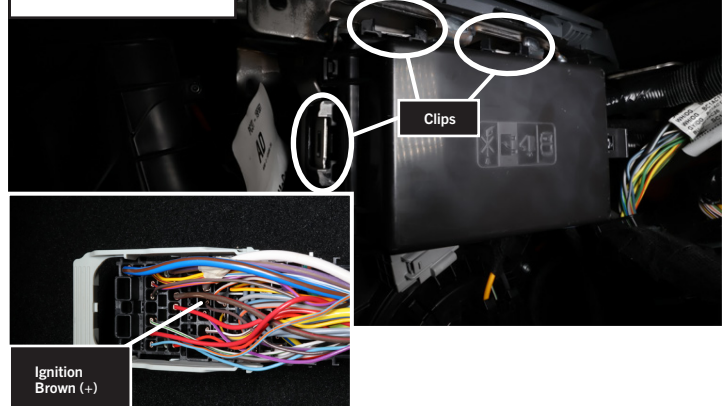
FO-12

Cabin module ■ yellow - ignition  
TO

Black 50-pin connector


- B** Passenger dash fuse box  
Pin 28 ■ Brown -Ignition

Ignition switch  
Black 50-pin plug



4

FO-12


Cabin module  green with yellow stripe - Arm

TO

Black/Gray 22-pin connector

**c** BCM in passenger kick (J3-C)

Pin 16  Gray -Lock

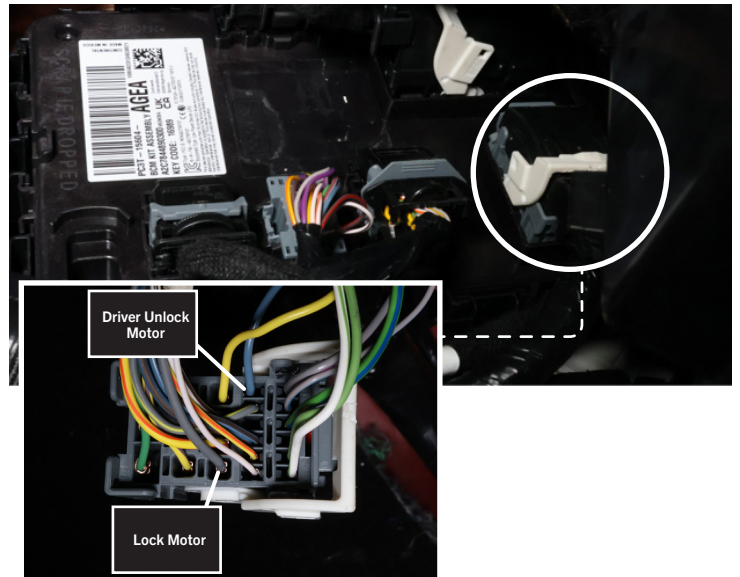
Cabin module  red with yellow stripe - Disarm

TO

Black/Gray 22-pin connector

**c** BCM in passenger kick (J3-C)

Pin 7  Blue - Unlock



5

FO-12

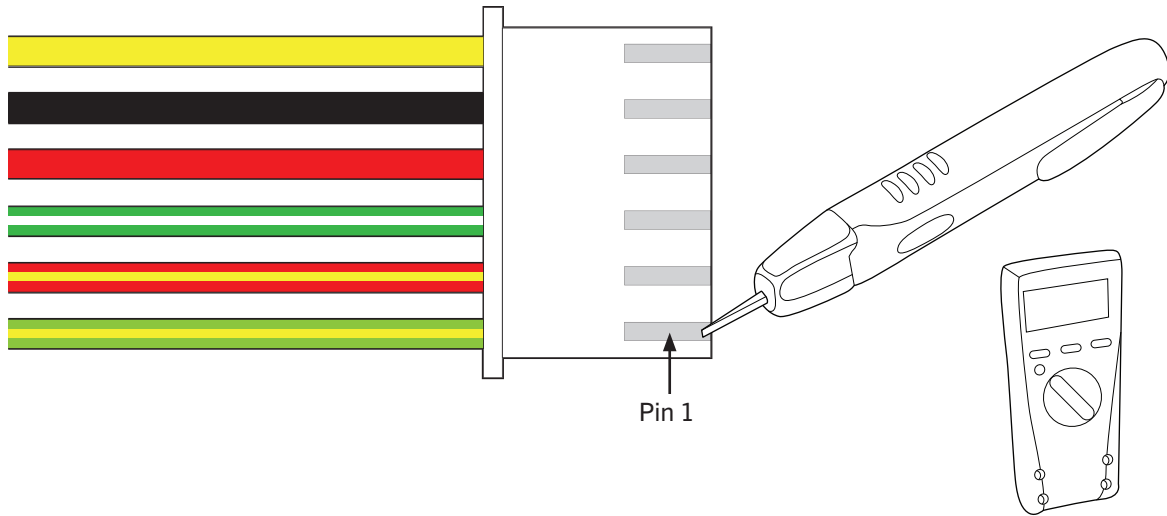
Reconnect 12V battery. Continue on page 14.

## Test 6-pin Connector Pinout

6

Use a test light and multimeter to check the connections.

FO-3  
FO-4  
FO-9  
FO-10  
FO-11  
FO-12



### Test 6-pin Connector Pinout

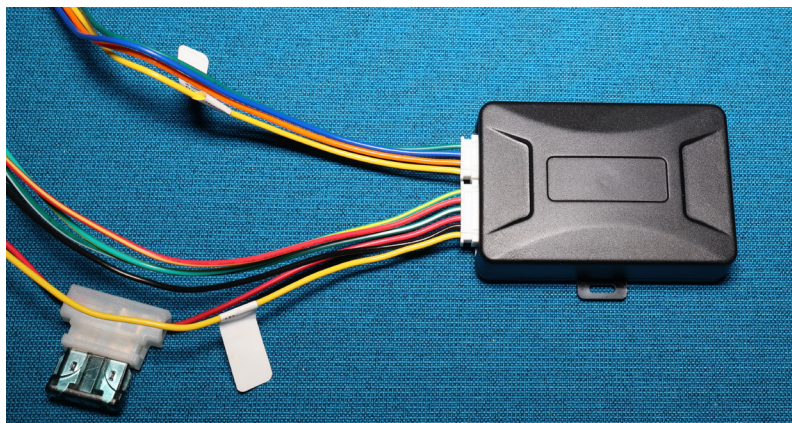
Yellow (Ignition)	Check that when the vehicle is OFF, the test light is OFF. Check that when the vehicle ignition is on or engine is running, the test light is ON.
Black ground	Check the resistance to chassis ground, the resistance should be less than 5.0hm
Red (12V power)	Check that the test light is 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-3  
FO-4  
FO-9  
FO-10  
FO-11  
FO-12



## 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-3**  
**FO-4**  
**FO-9**  
**FO-10**  
**FO-11**  
**FO-12**

- 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.