

INSTALLATION NOTES

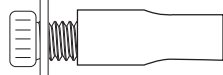
- When working on a vehicle, always roll down a window to avoid being locked out of the car.
- Make all necessary connections (wiring diagram) in the truck BEFORE plugging in the modules.
- Never install the cabin module where it could interfere with normal operation or obstruct service technicians.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

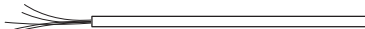
A. INSERT



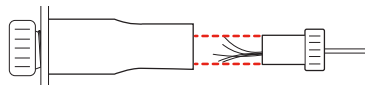
B. TIGHTEN



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)

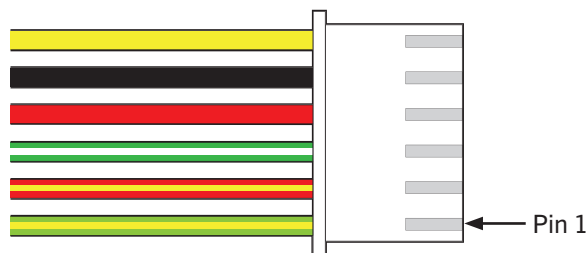
551 463 (PTA1218M)

551 464 (PTA1012)



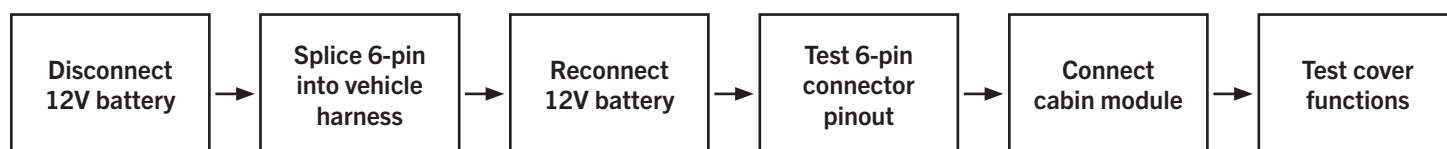
CABIN MODULE 6-PIN CONNECTOR PINOUT

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

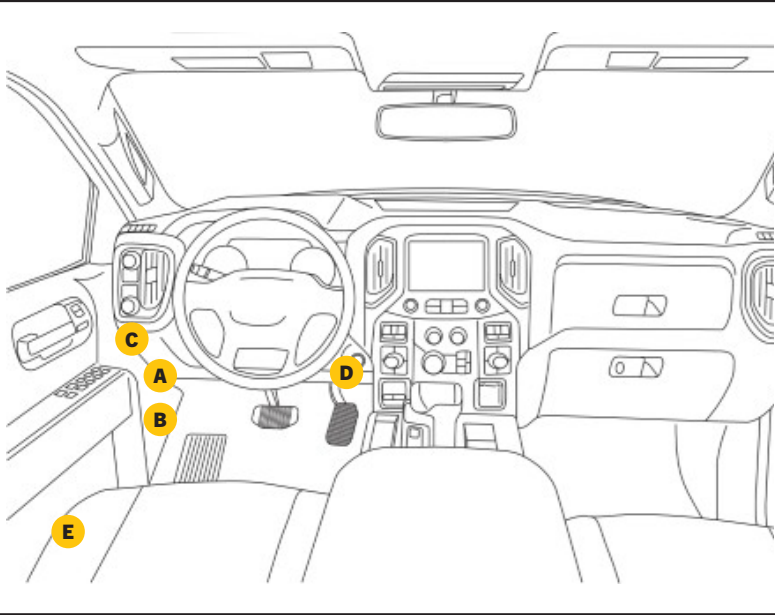
Year	Make / Model		Wire Guide
2019-2023	Ford Ranger	(Manual key)	FO-5
2019-2023	Ford Ranger	(Smart key)	FO-6

1

FO-5

Disconnect 12V battery.

Wire Splice Instructions (FO-5)



A

Driver kick - 40-pin plug (C275)

B

Driver kick - 17-pin plug (C214)

C

BCM dash fuse box - Black 22-pin plug (B)

D

Ignition switch - Black 6-pin plug

E

Ground stud - Under the sil plate

2

FO-5

Cabin module  red - 12V power

TO

Black 22-pin plug (B)

C

BCM in dash fuse box

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

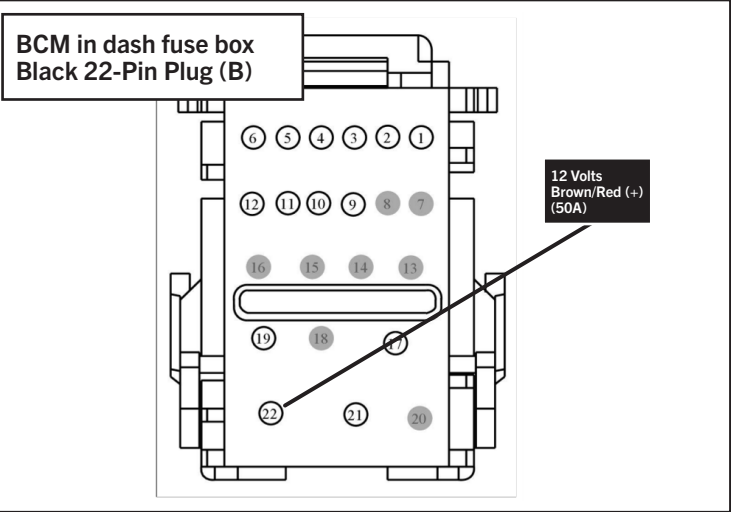
Cabin module  black ground

TO

E

Ground stud under the sil plate

BCM in dash fuse box
Black 22-Pin Plug (B)

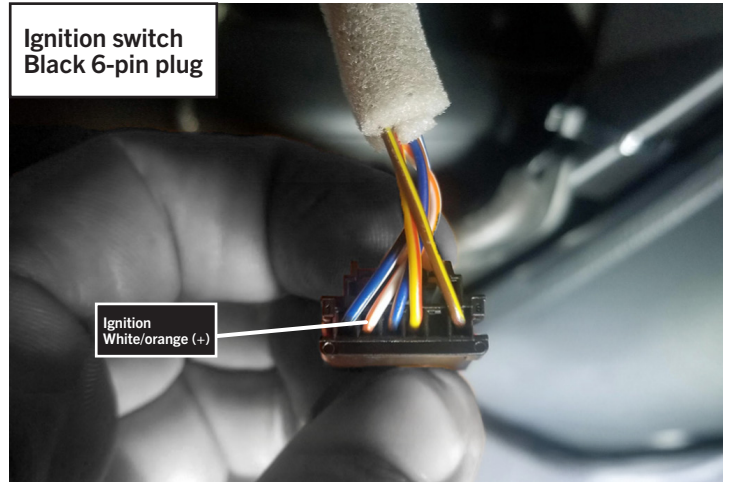


3**FO-5**

Cabin module  yellow - ignition
TO
 Black 6-pin plug
D Ignition switch
 Pin 2  White with orange stripe -Ignition

Ignition switch
 Black 6-pin plug

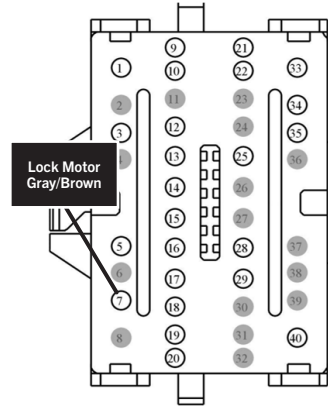
Ignition
 White/orange (+)

**4****FO-5**

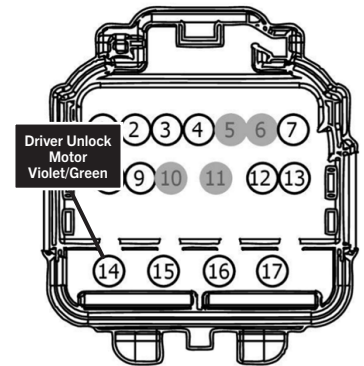
Cabin module  green with yellow stripe - Arm
TO
 40-pin plug (C275)
A BCM in driver kick
 Pin 7  Gray with brown stripe -Lock

Cabin module  red with yellow stripe - Disarm
TO
 17-pin plug (C214)
B BCM in driver kick
 Pin 14  Violet with green stripe - Unlock

BCM in driver kick
 40-pin plug (C275)



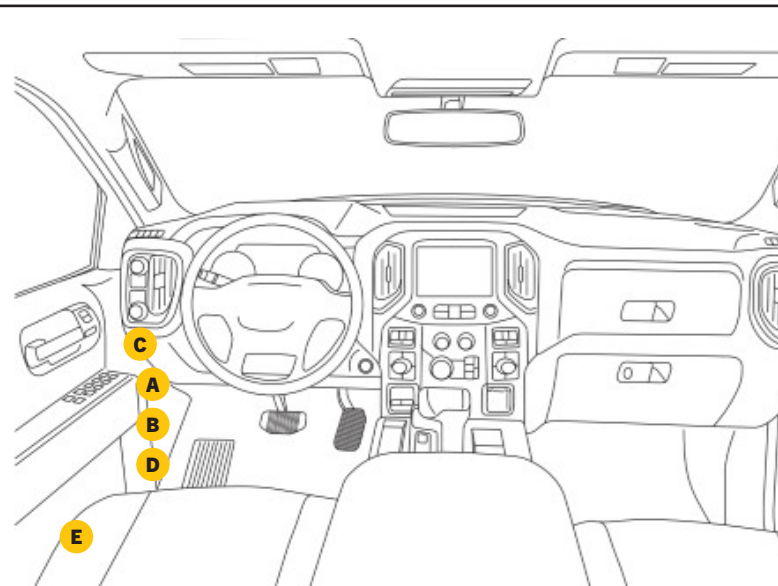
BCM in driver kick
 17-pin plug (C214)

**5****FO-5**

Reconnect 12V battery. Continue on page 6.

1

Disconnect 12V battery.

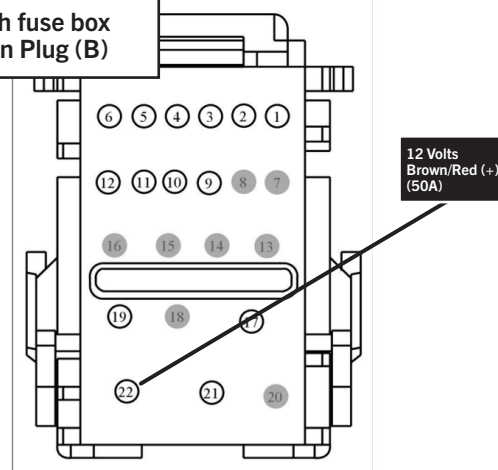
FO-6**Wire Splice Instructions (FO-6)**

- A** Driver kick - 40-pin plug (C275)
- B** Driver kick - 17-pin plug (C214)
- C** BCM dash fuse box - Black 22-pin plug (B)
- D** Driver kick - Black 59-pin plug (C237)
- E** Ground stud - Under the sill plate

2**FO-6**

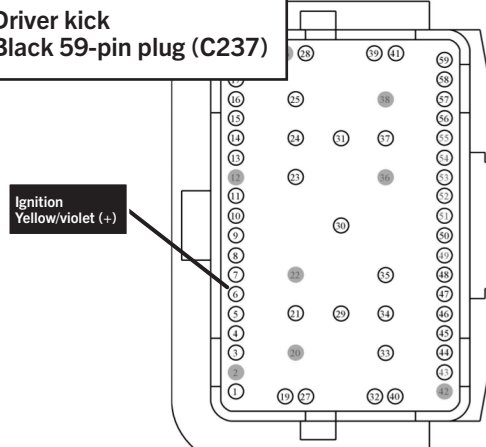
- Cabin module ■ red - 12V power
TO
 Black 22-pin plug (B)
C BCM in dash fuse box
 Pin 22 ■ Brown with red stripe - 12V (50A)
- Cabin module ■ black ground
TO
E Ground stud under the sill plate

BCM in dash fuse box
 Black 22-Pin Plug (B)

**3****FO-6**

- Cabin module ■ yellow - ignition
TO
 Black 59-pin plug (C237)
D Driver kick
 Pin 6 ■ Yellow with violet stripe - Ignition

Driver kick
 Black 59-pin plug (C237)

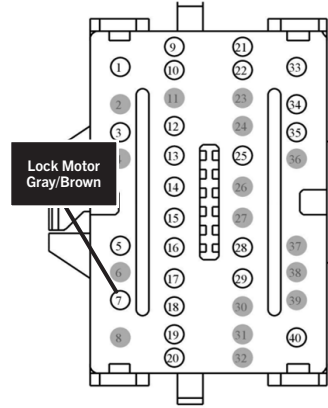
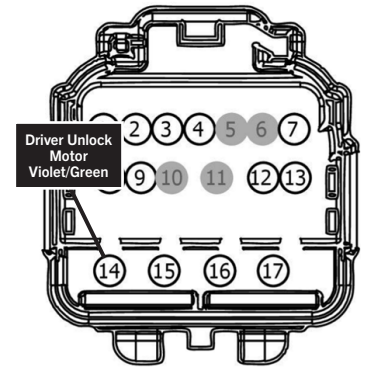


4**F0-6**Cabin module  green with yellow stripe - Arm**TO**

40-pin plug (C275)

A BCM in driver kickPin 7  Gray with brown stripe - LockCabin module  red with yellow stripe - Disarm**TO**

17-pin plug (C214)

B BCM in driver kickPin 14  Violet with green stripe - Unlock**BCM in driver kick
40-pin plug (C275)****BCM in driver kick
17-pin plug (C214)****5****F0-6**

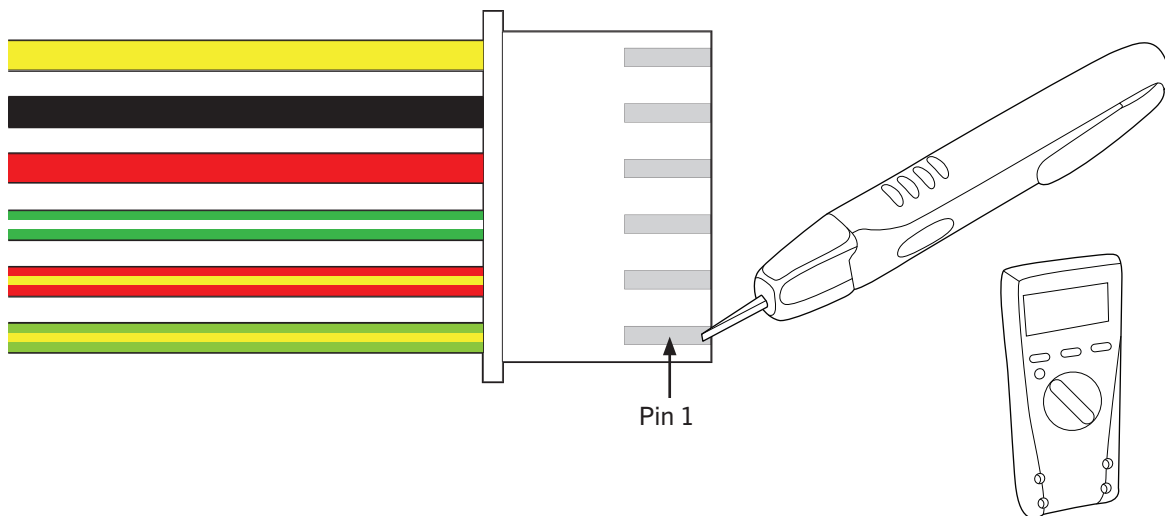
Reconnect 12V battery. Continue on page 6.

Test 6-pin Connector Pinout

6

Use a test light and multimeter to check the connections.

FO-5
FO-6



Test 6-pin Connector Pinout

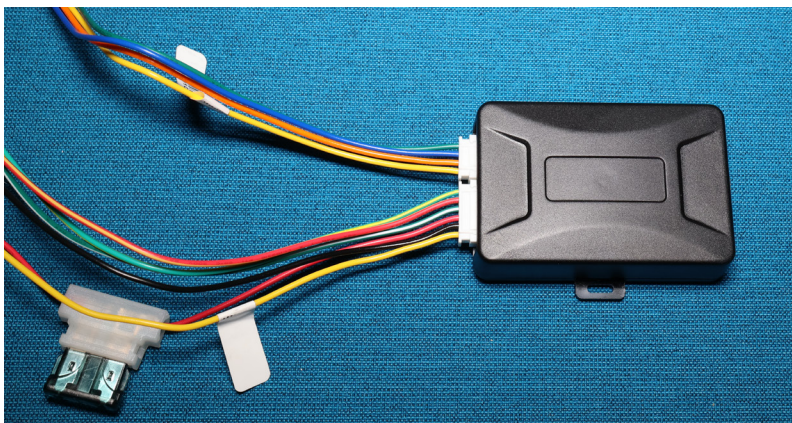
Yellow (Ignition)	Check that when the vehicle is OFF, the test light is OFF. Check that when the vehicle ignition is on or engine is running, the test light is ON.
Black ground	Check the resistance to chassis ground, the resistance should be less than 5.0hm
Red (12V power)	Check that the test light is 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-5
FO-6



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-5
FO-6

- 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.