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2012 FORD F-150 Super Crew OEM Service and Repair Workshop Manual

[Go to manual page](#)

connector) and ignition switch or push button start. Make sure that all other doors, liftgate, luggage compartment lid, and or tailgate are closed.

- If the exterior lights are not flashing to indicate an alarm event, disconnect and reconnect the battery.
- Select PATS (passive anti-theft system) Programming and then select the appropriate function to erase keys. Select the corresponding check marks until the screen is displayed which indicates that 2 keys need to be programmed to start the vehicle. Select the check mark on this screen to continue. An error may be reported on the next screen. Ignore this error. Exit from this diagnostic scan tool function and select PATS (passive anti-theft system) Programming a second time. Proceed until either a screen is displayed which advises to turn the ignition on or the main PATS (passive anti-theft system) Programming menu is displayed. Do not select the check mark on this screen or proceed any further.
- The process of requesting to erase keys with the diagnostic scan tool initiates a 10 minute timer in the BCM (body control module) which must conclude before the 1 minute DLC (data link connector) access window occurs.
- Reinsert the horn or anti-theft alarm horn fuse after the exterior and interior lights stop flashing. This occurs within 4-5 minutes of when a command to erase keys is sent from the diagnostic scan tool. After another 5-6 minutes (9-11 minutes from the initial point of diagnostic scan tool DLC (data link connector) access), the horn chirps 1 time to indicate the 1 minute data link access time period has begun.

Immediately proceed to Step 5.

If the single horn chirp is not heard, perform the procedure again starting at Step 1.

NOTE

Depending on the diagnostic scan tool power settings, it may be required to provide an occasional mouse/keypad input to prevent power saver mode from being entered and the diagnostic scan tool session being interrupted during the 10 minute period before the 1 minute access window. Also, ensure that a technician service publication website session is active and has not timed out on the laptop or PC being used for this procedure.

3. Using a diagnostic scan tool, select TOOLBOX> PCM (powertrain control module) or SOBDMC (secondary on-board diagnostic control module C) (if equipped) or BCM (body control module) (some vehicles) under HS-CAN1 (high-speed controller area network 1) module list> PATS (passive anti-theft system) Programming or ABS (anti-lock brake system) (if equipped) under HS-CAN2 (high-speed controller area



Key Programming Using Two Programmed Keys

419-01C Passive Anti-Theft System (PATS) - Vehicles With: Push Button Start	2022 F-150
General Procedures	Procedure revision date: 03/14/2019

Key Programming Using Two Programmed Keys

Programming

NOTE

This procedure works only if the spare key programming is enabled.

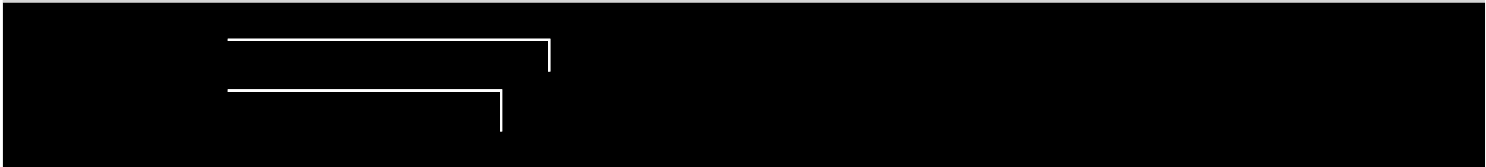
NOTE

Two previously programmed keys are required to perform this procedure. All the steps must be completed within 30 seconds.

NOTE

Make sure all the doors are closed prior to beginning this procedure and they remain closed until the procedure is complete.

1. Locate the passive key backup starting location. Refer to the Owner Literature for the passive key backup starting location.
2. Place the first programmed passive key in the backup starting location. Press the START/STOP button.
3. Wait 5 seconds and then press the START/STOP button.



Passive Anti-Theft System (PATS) Center Antenna - Vehicles With: Column Shift

<i>419-01C Passive Anti-Theft System (PATS) - Vehicles With: Push Button Start</i>	<i>2022 F-150</i>
<i>Removal and Installation</i>	<i>Procedure revision date: 05/10/2022</i>

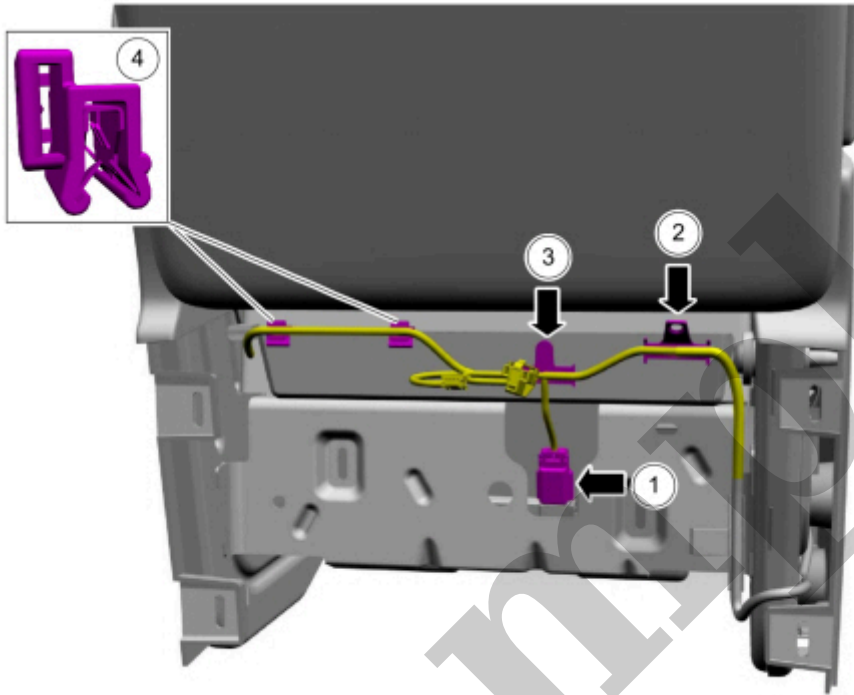
Passive Anti-Theft System (PATS) Center Antenna - Vehicles With: Column Shift

Removal

1. Remove the front center seat rear cup holder assembly.
 1. Release the retainer and pull the front center seat rear cup holder assembly out.
 2. Disconnect the auxiliary power point and the USB (universal serial bus) electrical connectors.

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

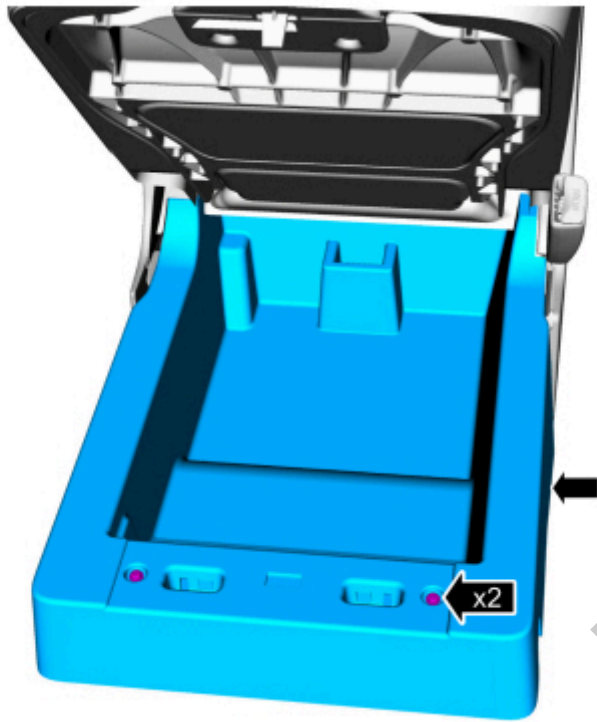
3.
 1. Disconnect the PATS (passive anti-theft system) center antenna electrical connector.
 2. Detach the front center seat wiring harness retainer.
 3. Detach the front center seat wiring harness retainer.
 4. Detach the front center seat wiring harness retainer.



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[Click here to learn about symbols, color coding, and icons used in this manual.](#)

4. Lift the front center seat cushion upward.
 1. Release the front center seat cushion latch.
 2. Lift the front center seat cushion upward.

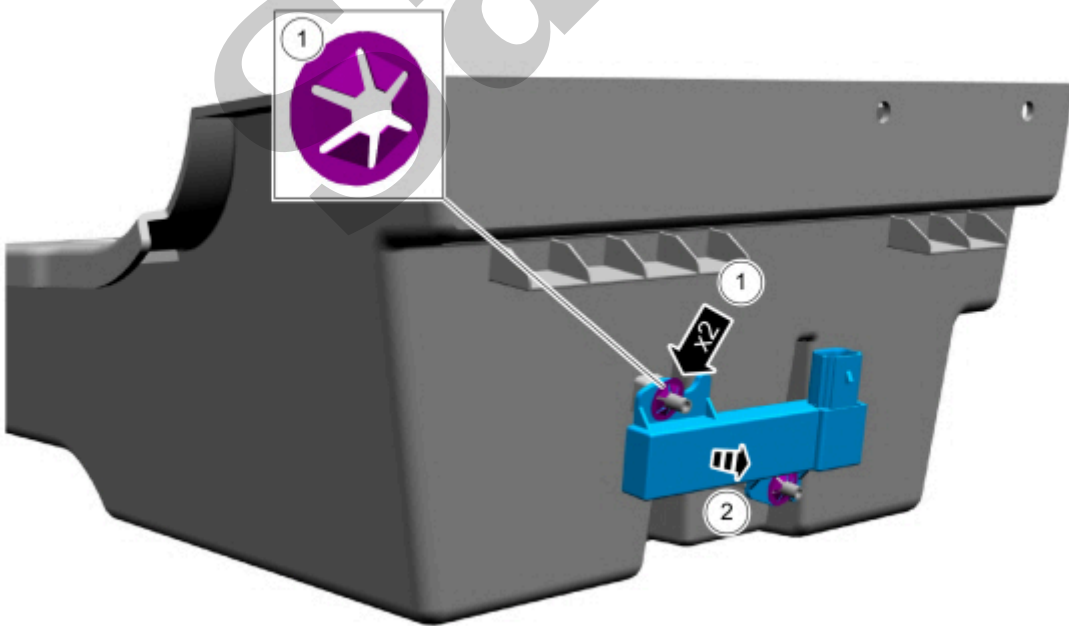


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7. Remove the PATS (passive anti-theft system) center antenna.

1. Remove PATS (passive anti-theft system) center antenna retainers.
2. Remove the PATS (passive anti-theft system) center antenna.



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Passive Anti-Theft System (PATS) Center Antenna - Vehicles With: Console Shift

419-01C Passive Anti-Theft System (PATS) - Vehicles With: Push Button Start	2022 F-150
Removal and Installation	Procedure revision date: 09/9/2020

Passive Anti-Theft System (PATS) Center Antenna - Vehicles With: Console Shift

Removal

NOTE

Seats removed for clarity.

1. On LH (left-hand) side.

Remove the screw, release the clips and remove the floor console lower LH (left-hand) trim panel.

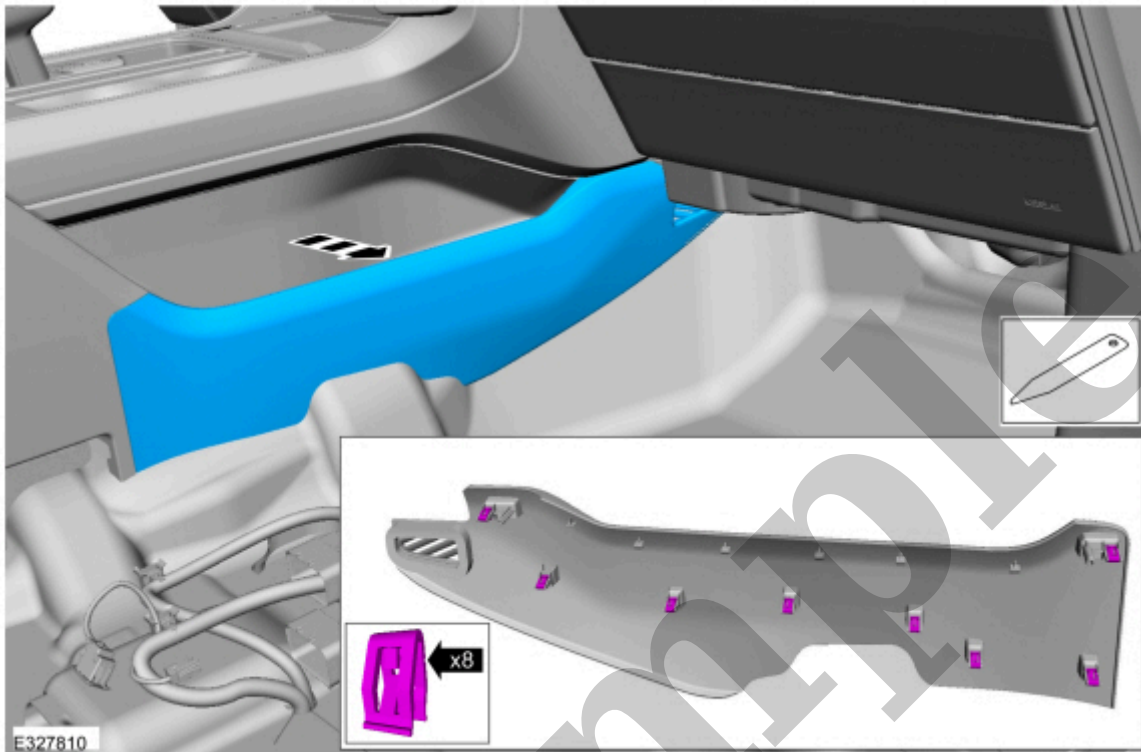
Use the General Equipment: Interior Trim Remover

[Click here to learn about symbols, color coding, and icons used in this manual.](#)

3. On RH (right-hand) side.

Release the clips and remove the floor console lower RH (right-hand) trim panel.

Use the General Equipment: Interior Trim Remover



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

4. On RH (right-hand) side.

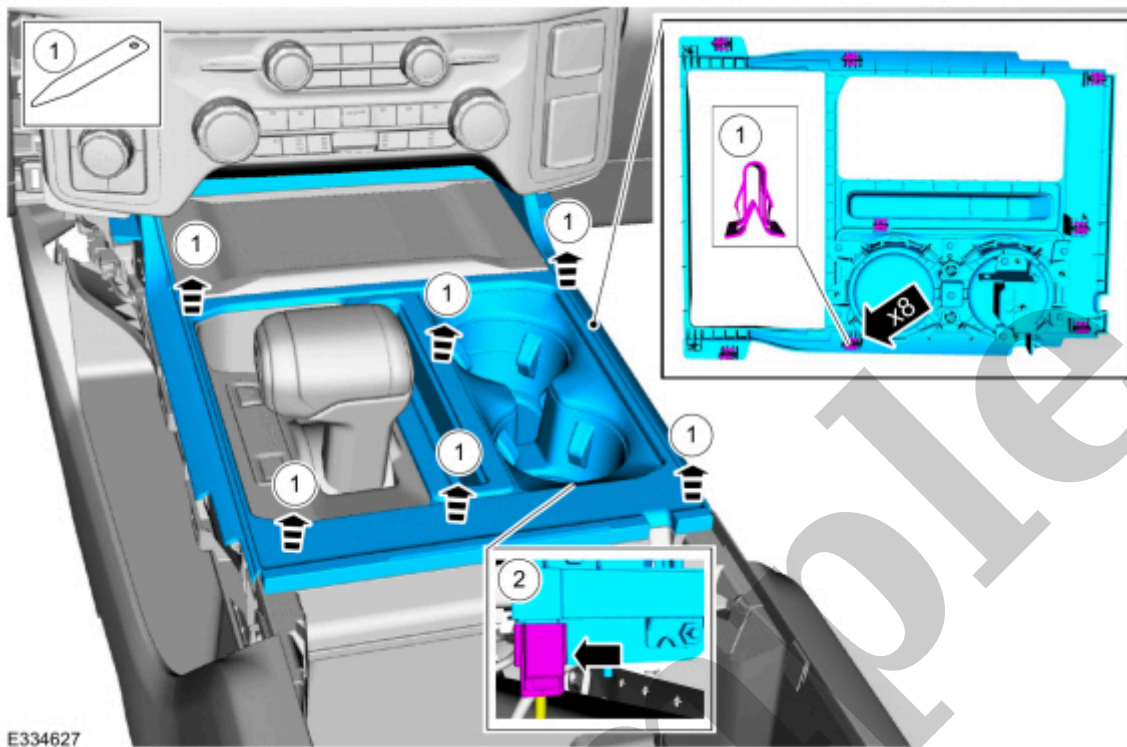
Release the clips and remove the floor console upper trim panel.

Use the General Equipment: Interior Trim Remover

1. Release the clips.

Use the General Equipment: Interior Trim Remover

2. Disconnect the PATS (passive anti-theft system) center antenna electrical connector.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

7. Remove the retainers and the PATS (passive anti-theft system) center antenna.



Passive Anti-Theft System (PATS) Rear Antenna

419-01C Passive Anti-Theft System (PATS) - Vehicles With: Push Button Start	2022 F-150
Removal and Installation	Procedure revision date: 09/9/2020

Passive Anti-Theft System (PATS) Rear Antenna

Removal

1. Remove the loadspace trim panel.

Refer to: [Loadspace Trim Panel - Regular Cab](#)(501-05 Interior Trim and Ornamentation, Removal and Installation).

Refer to: [Loadspace Trim Panel - SuperCab/SuperCrew](#)(501-05 Interior Trim and Ornamentation, Removal and Installation).

2. Remove the PATS (passive anti-theft system) rear antenna.

1. Disconnect the PATS (passive anti-theft system) rear antenna electrical connector.

2. Release the tabs and remove the PATS (passive anti-theft system) rear antenna.

Use the General Equipment: Interior Trim Remover