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2012 FORD F-150 Regular Cab OEM Service and Repair Workshop Manual

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Positive Lead	Measurement / Action	Negative Lead
C4321-1	Ω	Ground
C4321-2	Ω	Ground

Are the resistances greater than 10,000 ohms?

Yes	GO to U6
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No	REPAIR the circuit in question.
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U6 CHECK THE KEYLESS ENTRY REAR ANTENNA CIRCUIT FOR AN OPEN

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C4321-1	Ω	C2280D-30
C4321-2	Ω	C2280D-32

Are the resistances less than 3 ohms?

Yes	GO to U7
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No	REPAIR the circuit in question.
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Tailgate

501-04 Pickup Bed and Platform Body	2022 F-150
Diagnosis and Testing	Procedure revision date: 06/11/2021

Tailgate

Symptom Chart(s)

Symptom Chart: Pickup Bed and Platform Body - Mechanical

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: [Diagnostic Methods](#)

(100-00 General Information, Description and Operation).

Condition	Actions
Tailgate is making noise while opening/closing, drops fast, does not fully open or binds	GO to Pinpoint Test A
Hard to open using the tailgate release handle	GO to Pinpoint Test B
Tailgate step unintended opening or hard to open or close	GO to Pinpoint Test C

Symptom Chart: Pickup Bed and Platform Body - Electrical

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: [Diagnostic Methods](#)

(100-00 General Information, Description and Operation).

PINPOINT TEST A : TAILGATE IS MAKING NOISE WHILE OPENING/CLOSING, DROPS FAST, DOES NOT FULLY OPEN OR BINDS

Normal Operation and Fault Conditions

REFER to: [Pickup Bed](#)(501-04 Pickup Bed and Platform Body, Description and Operation).

Possible Sources

- Incorrect torsion rod assembly
- Tailgate damper disconnected

A1 CHECK THE TAILGATE OPERATION

- Check the operation of the tailgate.

Does the tailgate make noise while opening/closing, drop fast, does not open fully or bind?

Yes	GO to A2
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No	Refer to the symptom chart in this section.
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A2 CHECK THE TAILGATE DAMPER

- Check the operation of the tailgate damper.

Does the tailgate drop too fast or is the damper disconnected?

Yes	Repair as necessary. REFER to: Tailgate Damper (501-04 Pickup Bed and Platform Body, Removal and Installation).
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No	GO to A3
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A3 CHECK THE TAILGATE TORSION ROD INSTALLATION

- Verify torsion rod installation.
 - Loosen the torsion rod clamp bolts.
 - Check alignment and installation of the torsion rod.
REFER to: [Tailgate Torsion Rod](#)(501-04 Pickup Bed and Platform Body, Removal and Installation).
- Operate the tailgate and determine if the concern is still present.

No	Adjust the striker as necessary.
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B3 CHECK THE TAILGATE RELEASE HANDLE OPERATION	
<ul style="list-style-type: none"> Check the tailgate release handle operation for damage, worn components. Was any damage found?	
Yes	Repair as necessary. REFER to: Tailgate Release Handle (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
No	GO to B4

B4 CHECK THE TAILGATE LATCH	
<ul style="list-style-type: none"> Check the tailgate latch for damage, worn components. Check tailgate latch linkage mechanism. Was any damage found?	
Yes	Repair as necessary. REFER to: Tailgate Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
No	The system is operating correctly at this time. Refer to the symptom chart in this section.

PINPOINT TEST C : TAILGATE STEP UNINTENDED OPENING HARD TO OPEN OR CLOSE

Normal Operation and Fault Conditions

REFER to: [Pickup Bed](#)(501-04 Pickup Bed and Platform Body, Description and Operation).

Possible Sources

- Tailgate step release button
- Tailgate step latch striker

- Verify the tailgate step installation.
- Check alignment and installation of the tailgate step.
REFER to: [Tailgate Step Adjustment](#)(501-04 Pickup Bed and Platform Body, General Procedures).
- Operate the tailgate step and determine if the concern is still present.

Is the concern still present?

Yes	REPLACE the tailgate step. REFER to: Tailgate Step (501-04 Pickup Bed and Platform Body, Removal and Installation).
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No	The system is operating correctly at this time. REFER to the symptom chart in this section.
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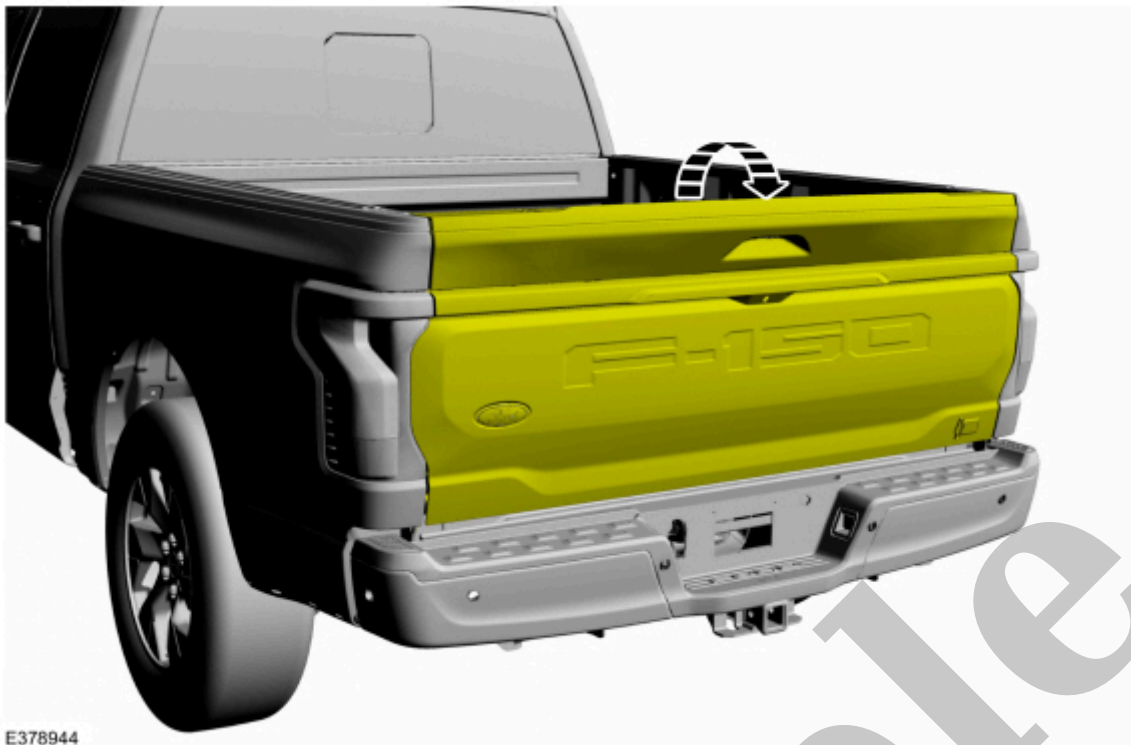
C4 CHECK TAILGATE STEP LATCH AND STRIKER INSTALLATION

- Check for damaged, loose or broken components.
- Verify the tailgate step latch and striker installation.
REFER to: [Tailgate Step Latch](#)(501-04 Pickup Bed and Platform Body, Removal and Installation).
REFER to: [Tailgate Step Striker](#)(501-04 Pickup Bed and Platform Body, Removal and Installation).

Are any of the components damaged or broken?

Yes	REPAIR as necessary. Refer to Tailgate Step Latch and Striker, this section.
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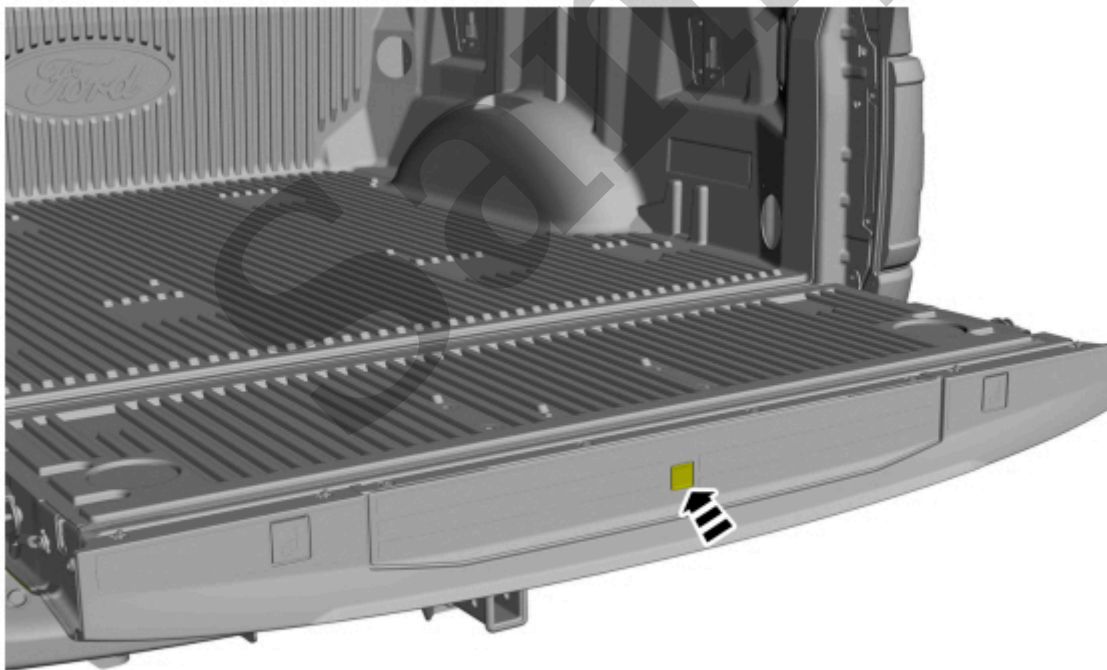
No	The system is operating correctly at this time. Refer to the symptom chart in this section.
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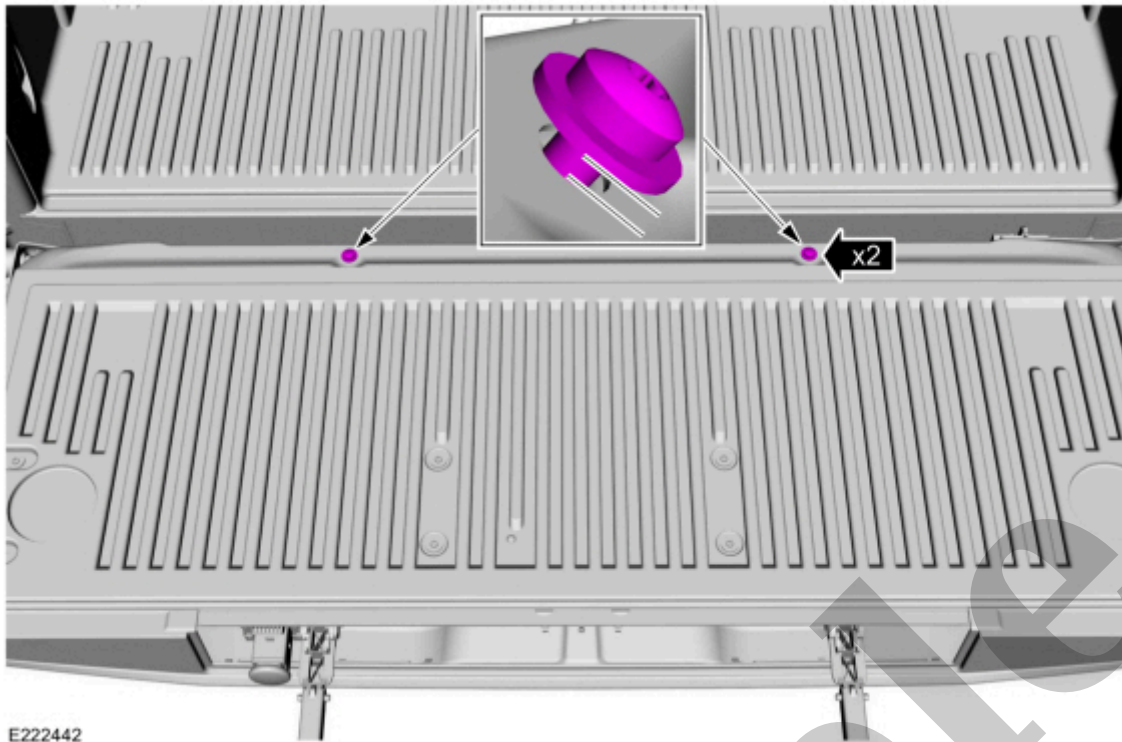
2. Push the tailgate step release button.



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

3. Open the tailgate step approximately 8 in (203 mm) to 10 in (254 mm) from the closed position.



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

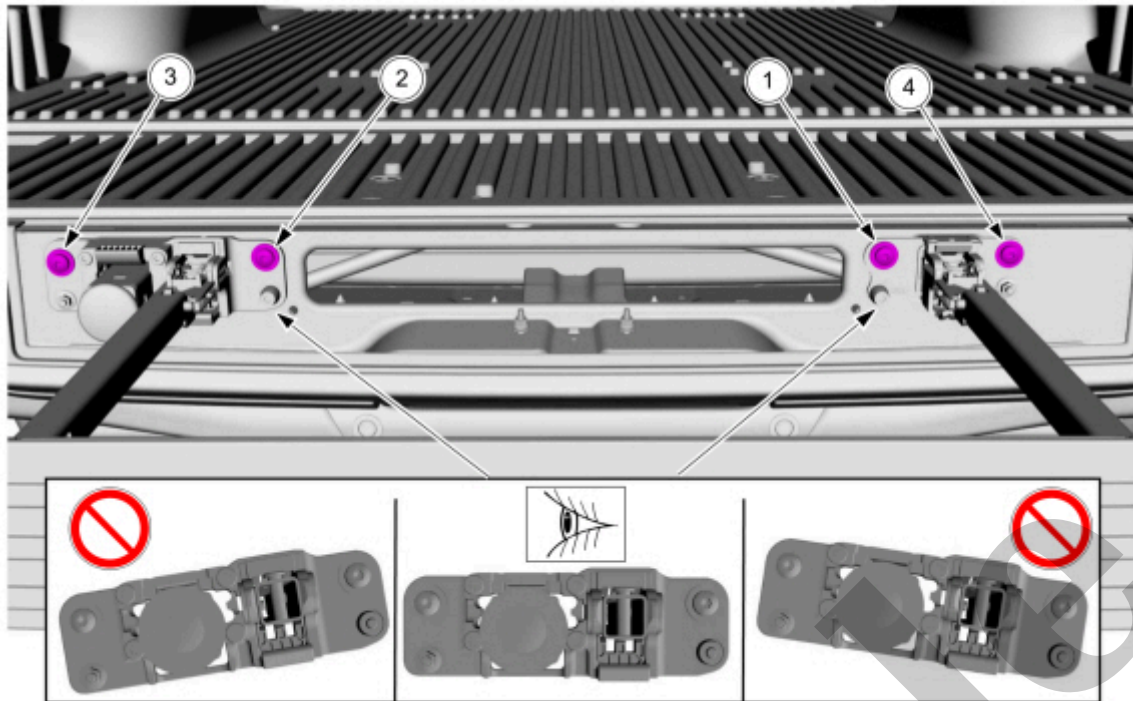
6. Cycle the tailgate step fully open and closed several time in its horizontal position without dropping the step to its final position ensuring the tailgate step fully latches in the closed position for each cycle. Finger tighten all fasteners before final tightening.

7. NOTE

The tailgate step assembly brackets should be held tightly against the tailgate face as the leg fasteners are tightened.

With the step approximately 2 in (51 mm) to 4 in (102 mm) from the closed state, tighten the tailgate step leg bolts in the following sequence:

1. **Torque** : 17 lb.ft (23 Nm)
2. **Torque** : 17 lb.ft (23 Nm)



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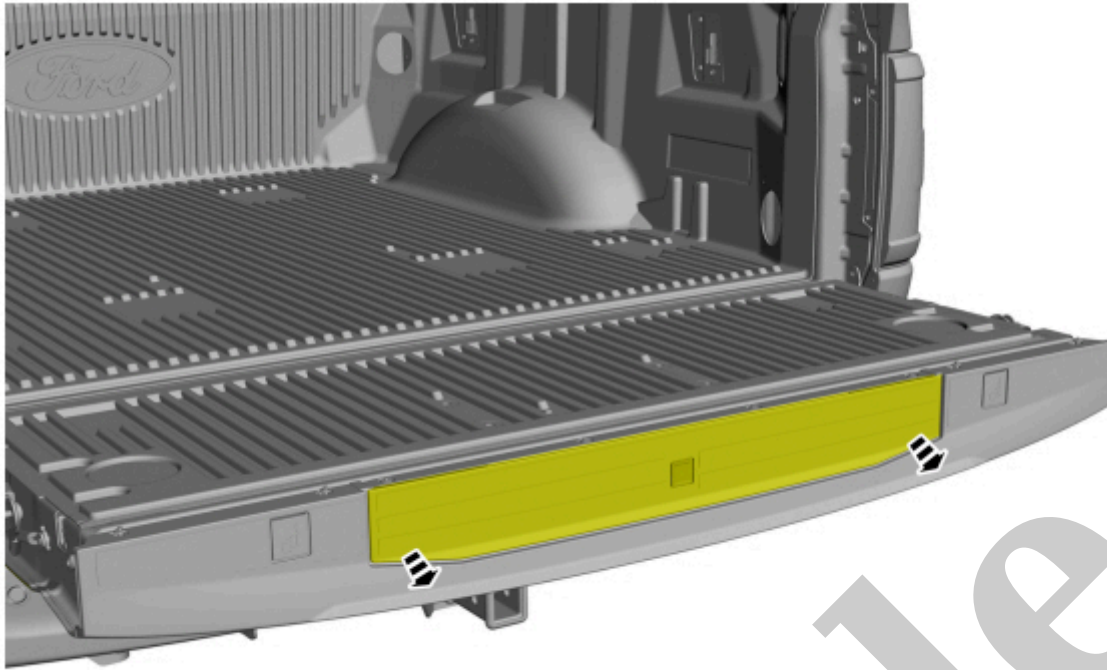
9. Cycle the tailgate step fully open and closed several times, ensuring the tailgate step fully latches in the closed position each cycle. If the tailgate step is still binding, repeat 2-8.

Adjustment

NOTE

LATCH STRIKER ADJUSTMENT

1. Lower the tailgate.



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4. Using a 12 inch straight edge, check the striker horizontal alignment.
 1. Place the straight edge along the edge of the striker.
 2. Measure and record the distance at both ends of the straight edge to a horizontal edge of the tailgate.
 3. Subtract the LH (left-hand) measurement from the RH (right-hand) measurement and record the difference.