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2001 FORD Crown Victoria OEM Service and Repair Workshop Manual

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Are the resistances less than 3 ohms?

Yes	GO to A21
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No	REPAIR the affected circuit.
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A21 PERFORM THE AAD (ACTIVE AIR DAM) ACTUATORS RESISTANCE TEST

- Disconnect LH (left-hand) AAD (active air dam) actuator C1967.
- Disconnect RH (right-hand) AAD (active air dam) actuator C1968.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C1967-1	Ω	C1967-3
C1968-1	Ω	C1968-3

- Note the readings:

Measuring Method	Follow Actuator (LH (left-hand) actuator)	Lead Actuator (RH (right-hand) actuator)
Lower Limit	7 Ω	100 k Ω
Upper Limit	30 Ω	n.a

Is the resistance is within the limit ?

Yes	GO to A22
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No	INSTALL a new AAD (active air dam) actuator. REFER to: Active Air Dam (AAD) Actuator
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(501-19 Bumpers, Removal and Installation).

REFER to: [Active Air Dam \(AAD\) Actuator](#)

(501-19 Bumpers, Removal and Installation).

A24 VERIFY THE ACTIVE AIR DAM (AAD) OPERATION USING THE ACTIVE AIR DAM (AAD) POSITION - COMMANDED (AAD_CMD) PID (PARAMETER IDENTIFICATION)

- Perform visual inspection of AAD (active air dam) system.
- Make sure that the area under the front bumpers is free from obstruction.
- Use OSC (output state control)

Access the PCM (powertrain control module) and monitor the AAD_CMD (Active Air Dam Position - Commanded) (%) PID (parameter identification) to command AAD (active air dam) actuators down (100%).

- Note: If not learned PCM (powertrain control module) will respond with NRC (Conditions not correct) AAD (active air dam) actuators will perform learning, send command again to command position.
- Visual inspection of AAD (active air dam) actuators to ensure both sides actuated down.
- Use OSC (output state control)
Access the PCM (powertrain control module) and monitor the AAD_CMD (Active Air Dam Position - Commanded) (%) PID (parameter identification) to command AAD (active air dam) actuators UP (0%)
- Visual inspection AAD (active air dam) actuators UP.

Does the AAD (active air dam) actuators cycle from DOWN to UP position when commanded by the diagnostic scan tool?

Yes

The AAD (active air dam) system is operating correctly at this time. The concern may have been caused by debris, mud, snow or ice.

No

GO to [A25](#)

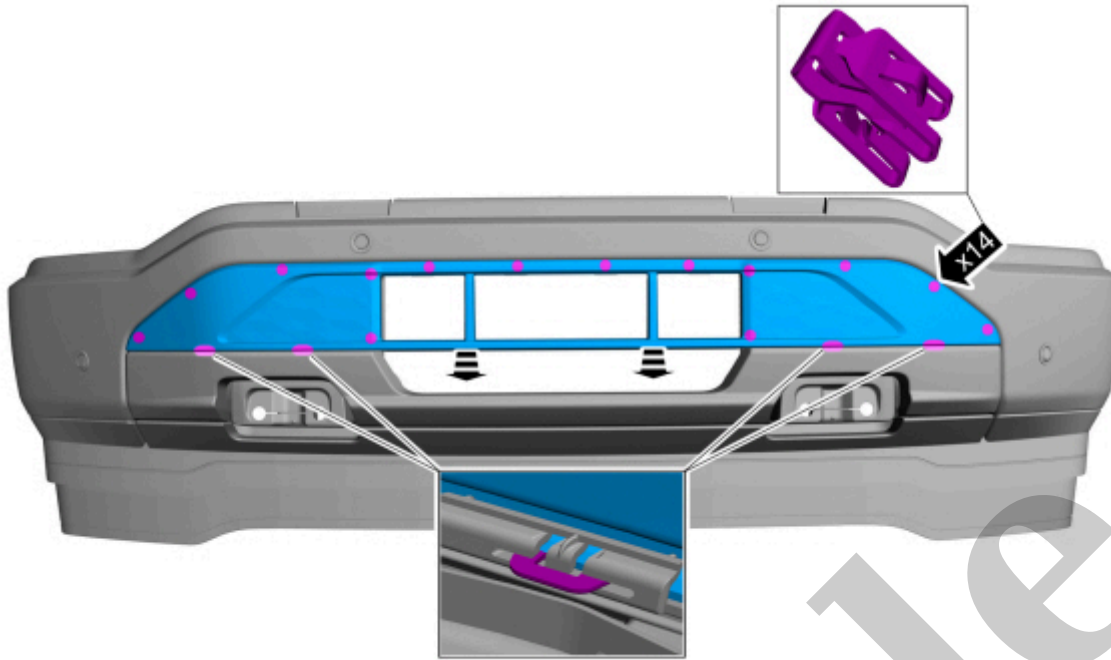
A25 CHECK ERROR STATUS PID (PARAMETER IDENTIFICATION) 'S

- Using a diagnostic scan tool, view PCM (powertrain control module) Parameter Identifications (PIDs).
- Using a diagnostic scan tool, select the PCM (powertrain control module) PID (parameter identification) 's

- pushed-out pins - install new pins as necessary
- Reconnect the AAD (active air dam) actuator connectors, PCM (powertrain control module) electrical connectors, jumper harness and all previously disconnected system connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

<p>Yes</p>	<p>CHECK OASIS (Online Automotive Service Information System) for any applicable service articles TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new AAD (active air dam) actuator.</p> <p>REFER to: Active Air Dam (AAD) Actuator (501-19 Bumpers, Removal and Installation).</p> <p>. CLEAR the Diagnostic Trouble Codes (DTCs). REPEAT the self-test. If the concern is still present,</p> <div data-bbox="271 851 454 907" data-label="Image"> </div> <p>Guided Routine available in the on-line Workshop Manual.</p>
<p>No</p>	<p>The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.</p>



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Vehicles With: Active Air Dam

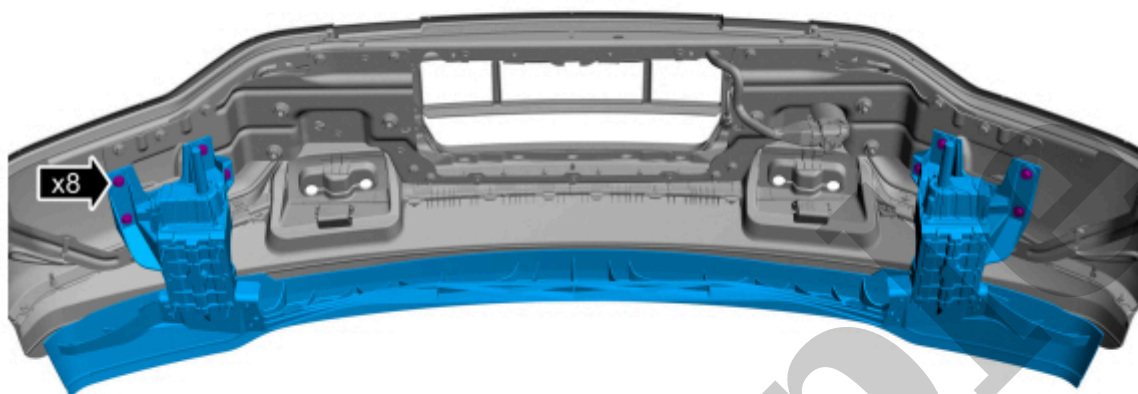
3. On LH (left-hand) side.

Disconnect the AAD (active air dam) electrical connector, detach the retainer and position the wiring harness aside.

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5. Remove the bolts and the AAD (active air dam) assembly.

Torque : 18 lb.ft (25 Nm)



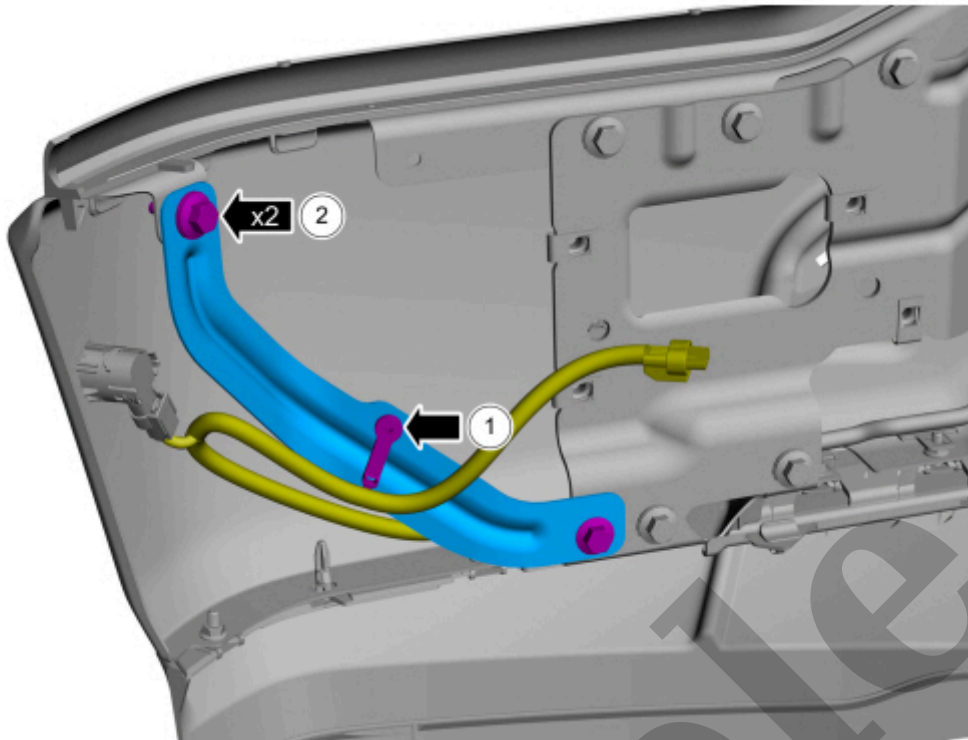
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6. On both sides.

Remove the bolts and the AAD (active air dam) actuator.

Torque : 27 lb.in (3 Nm)

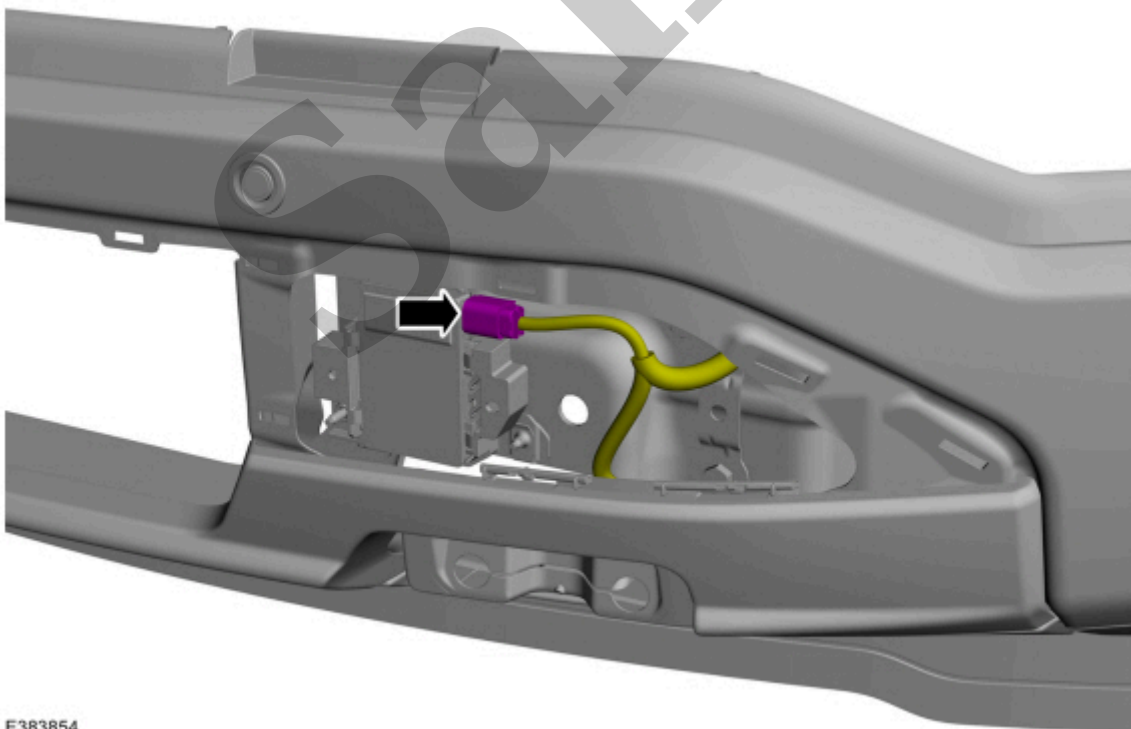


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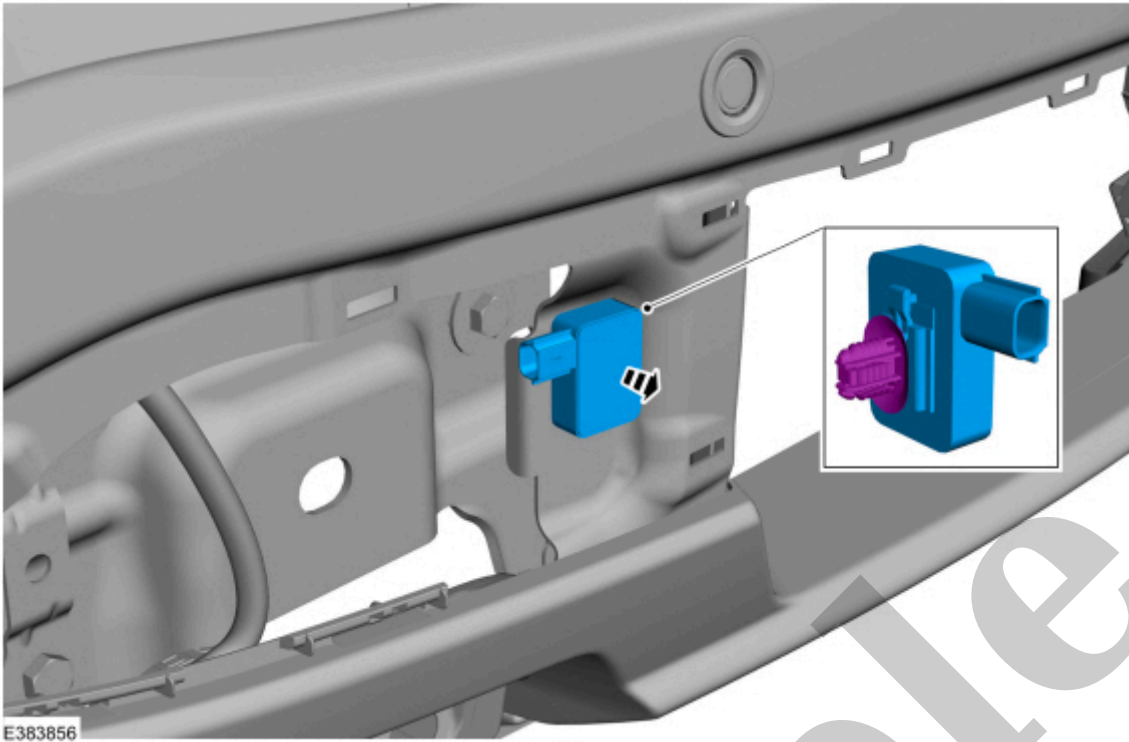
8. If equipped.

Disconnect the CCM (cruise control module) electrical connector.



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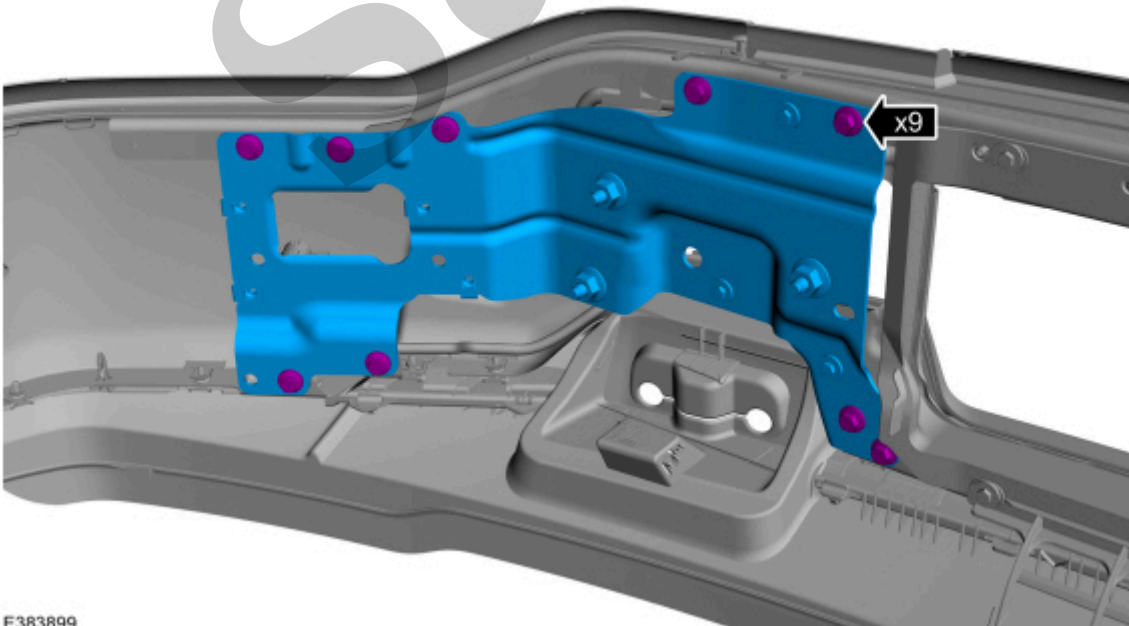


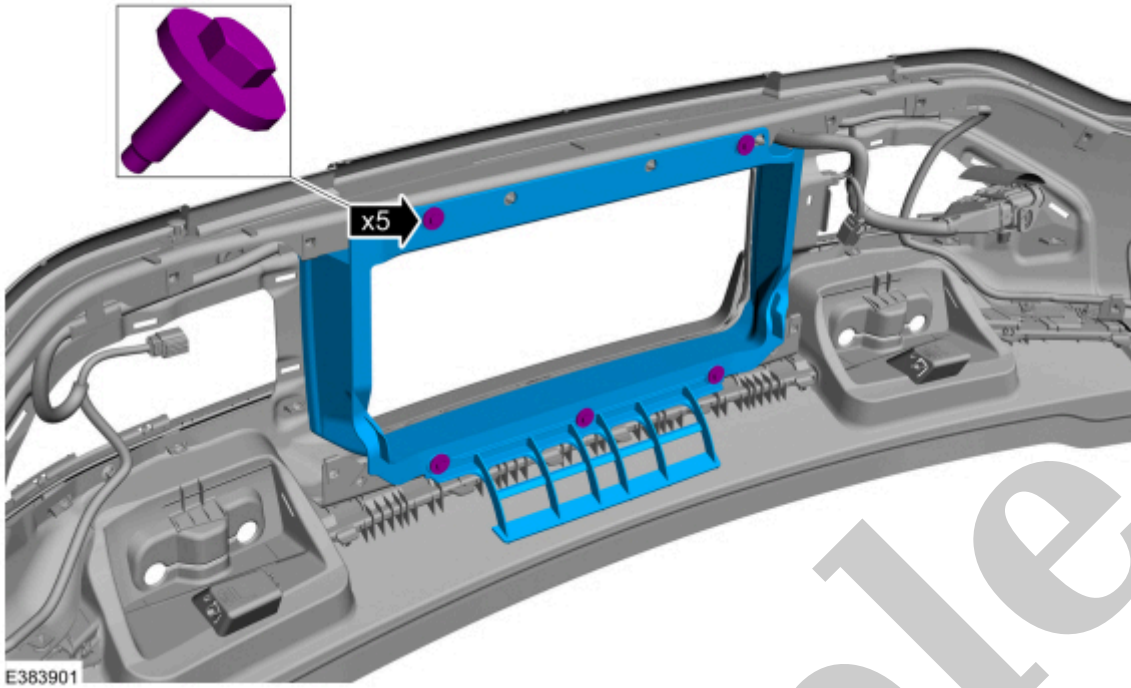
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11. On both sides.

Remove the bolts and the front bumper bracket.

Torque : 18 lb.ft (25 Nm)

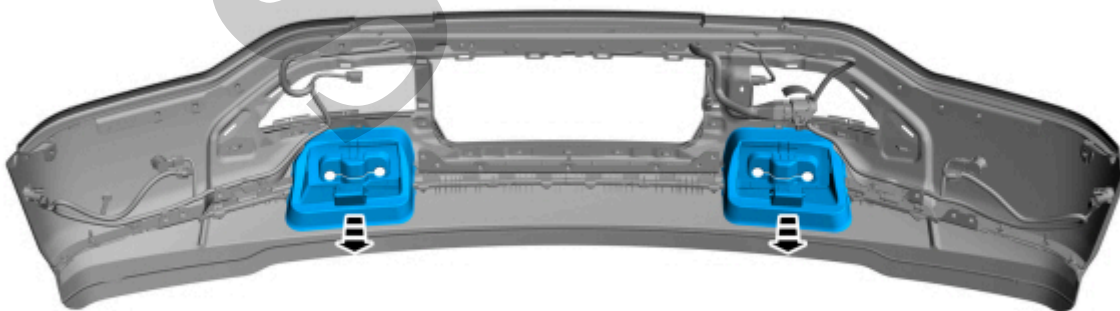




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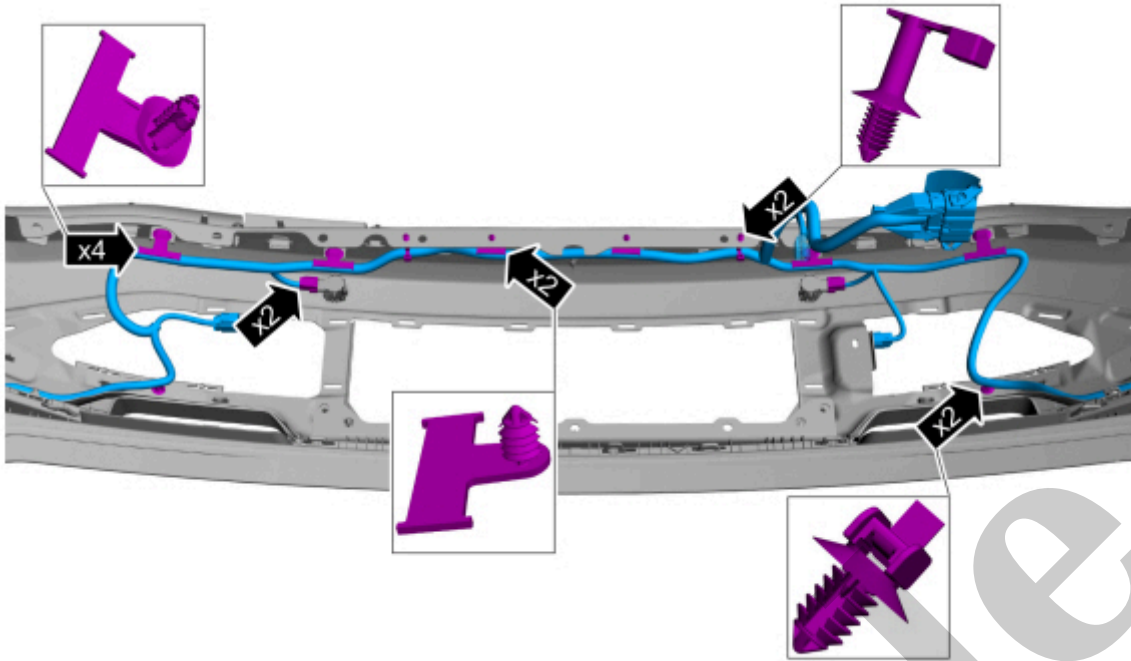
14. If equipped.

Remove the tow hook covers.



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Vehicles With: Active Park Assist/Front Parking Aid

17. NOTE

Make sure that the isolator rings are installed correctly while installing the sensors.

1. Release the tabs.
2. Remove the front parking aid sensors and front active park assist sensors from the bracket.