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2020.0 DEFENDER (LE), 418-02

WIRING HARNESSES

STARTUP BATTERY POSITIVE CABLE (G2463807)

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REMOVAL

 NOTES:

- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.

The following step(s) applies to:

Vehicles with stowage compartment

1. Remove the front row right seat.

Refer to: [Front Row Seat - Vehicles With: Power Seats](#) (501-10 Seating, Removal and Installation).Refer to: [Front Row Seat - Vehicles Without: Power Seats](#) (501-10 Seating, Removal and Installation).

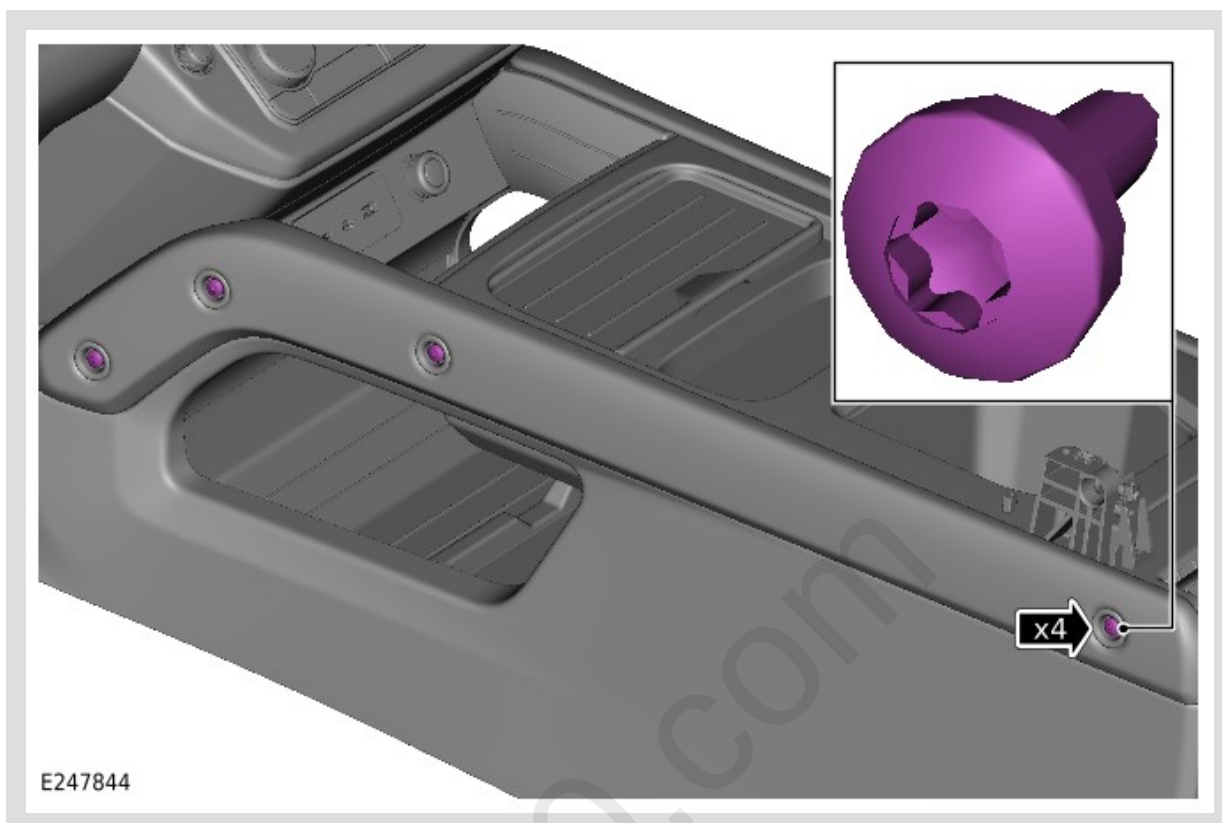
2. Disconnect the startup battery ground cable.

Refer to: [Startup Battery Disconnect and Connect](#) (414-00 Battery and Charging System - General Information, General Procedures).

3.

 NOTE:

This illustrations for left side components, right side components are similar.



Remove the 4 bolts on the right side.

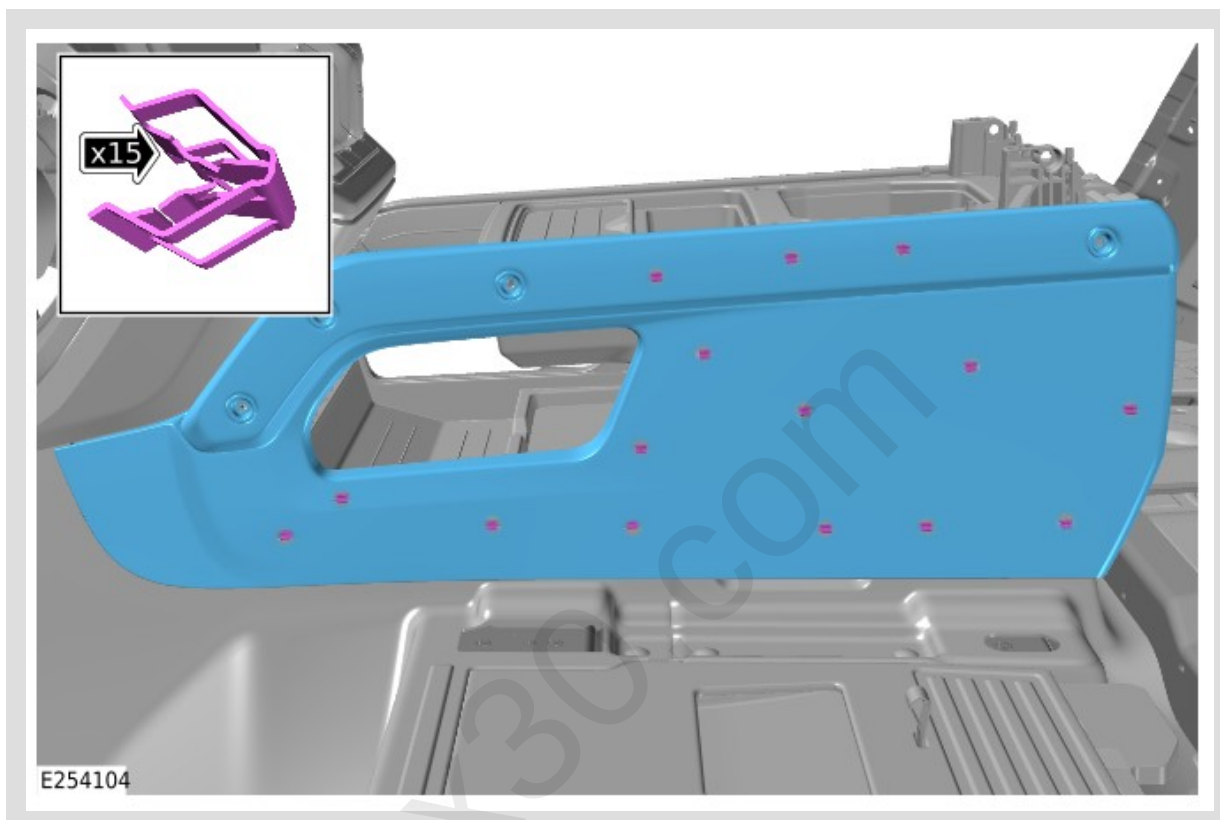
4.

⚠ CAUTION:

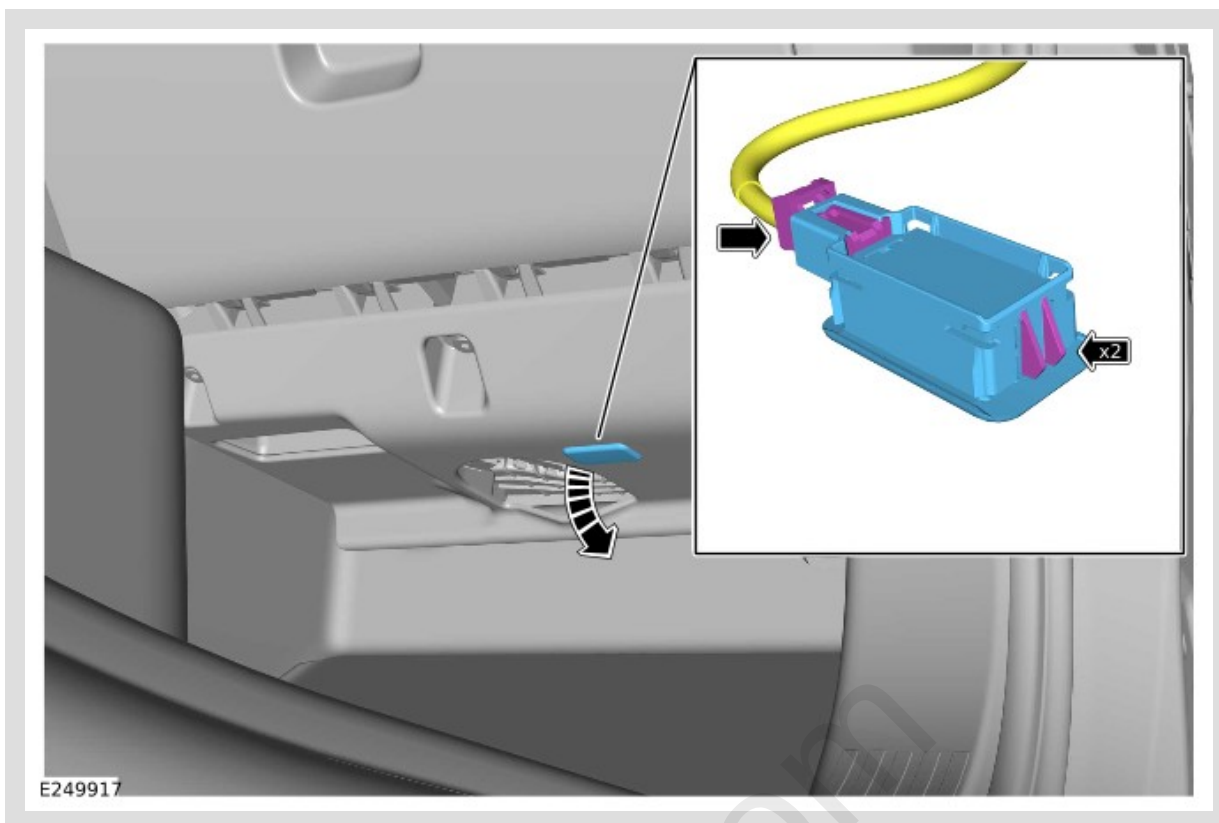
Take extra care not to damage the component.

△ NOTE:

This illustrations for left side components, right side components are similar.

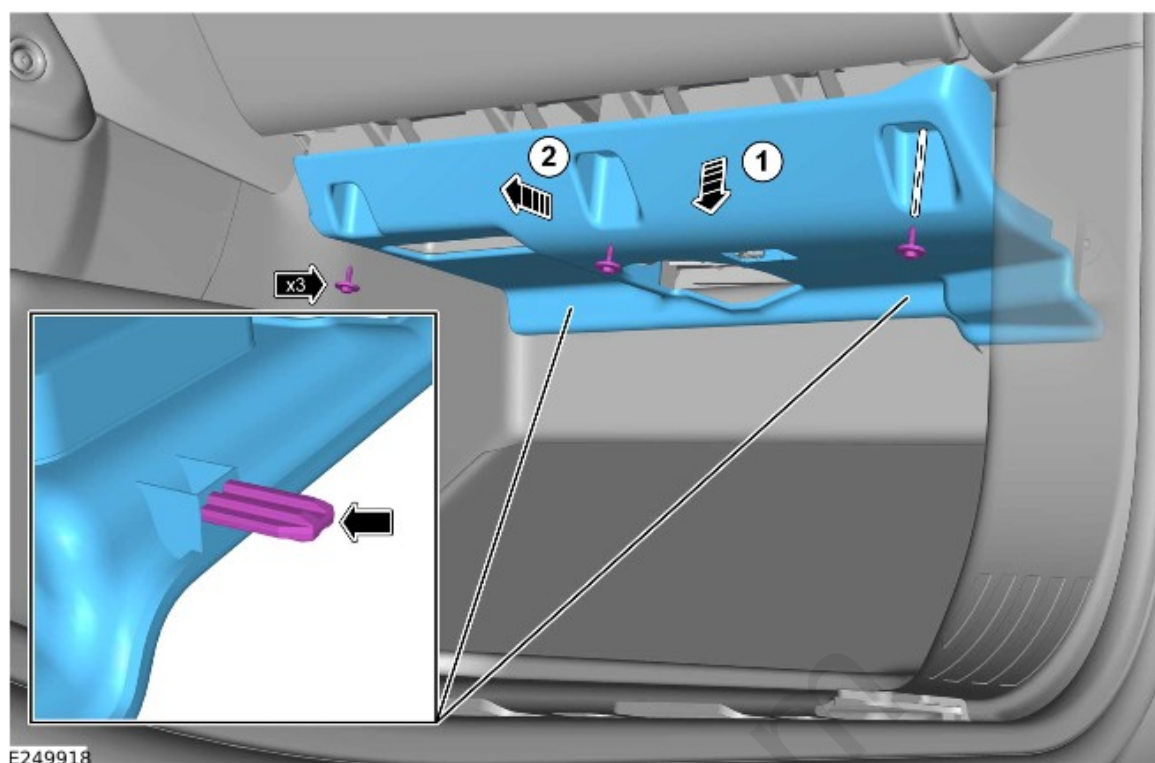


Remove the floor console side trim panel at the 15 clips on the right side.



- Release the 2 clips.
- Disconnect the electrical connector from the right side footwell lamp.
- Remove the right side footwell lamp.

6.



- Remove the 3 screws.
- Remove the right side footwell trim panel.

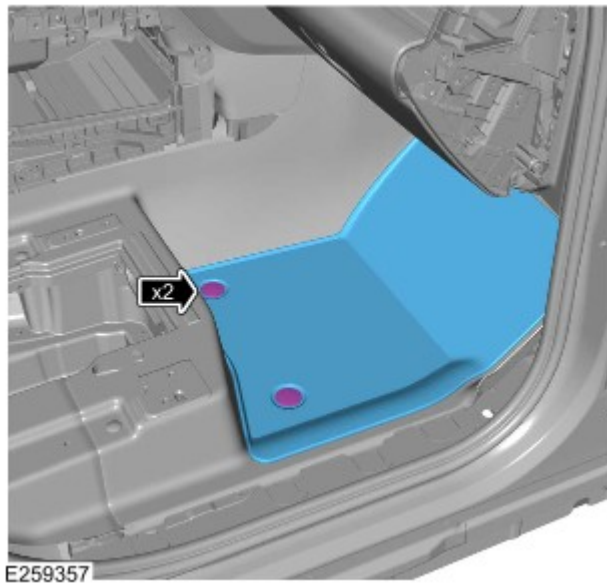
7. Remove the right side A-pillar lower trim panel.

Refer to: [A-Pillar Lower Trim Panel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

8. Remove the front right side treadplate.

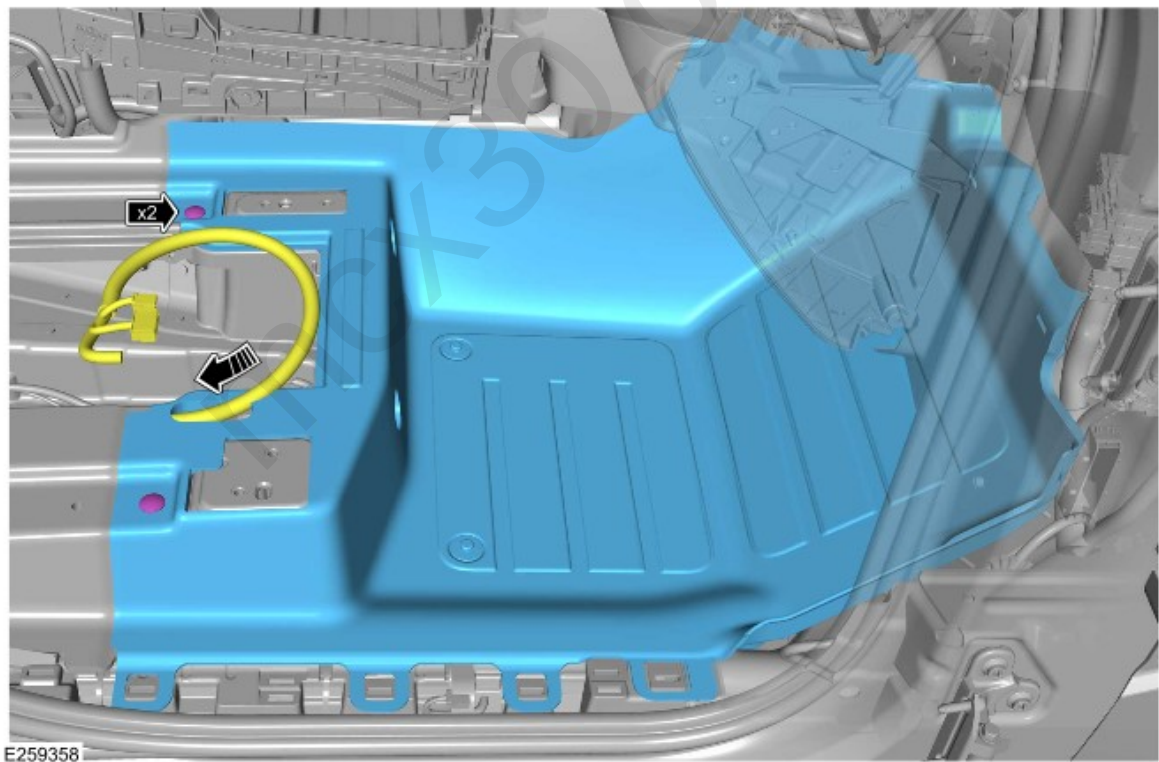
Refer to: [Front Treadplate](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

9.



- Release the 2 clips.
- Remove the front right floor mat.

10.



- Remove the 2 clips.
- Feed the wiring harness through the floor carpet.
- Remove the front right floor carpet.

The following step(s) applies to:

Vehicles without stowage compartment

11. Remove the front row seat on both side.

Refer to: [Front Row Seat - Vehicles With: Power Seats](#) (501-10 Seating, Removal and Installation).

Refer to: [Front Row Seat - Vehicles Without: Power Seats](#) (501-10 Seating, Removal and Installation).

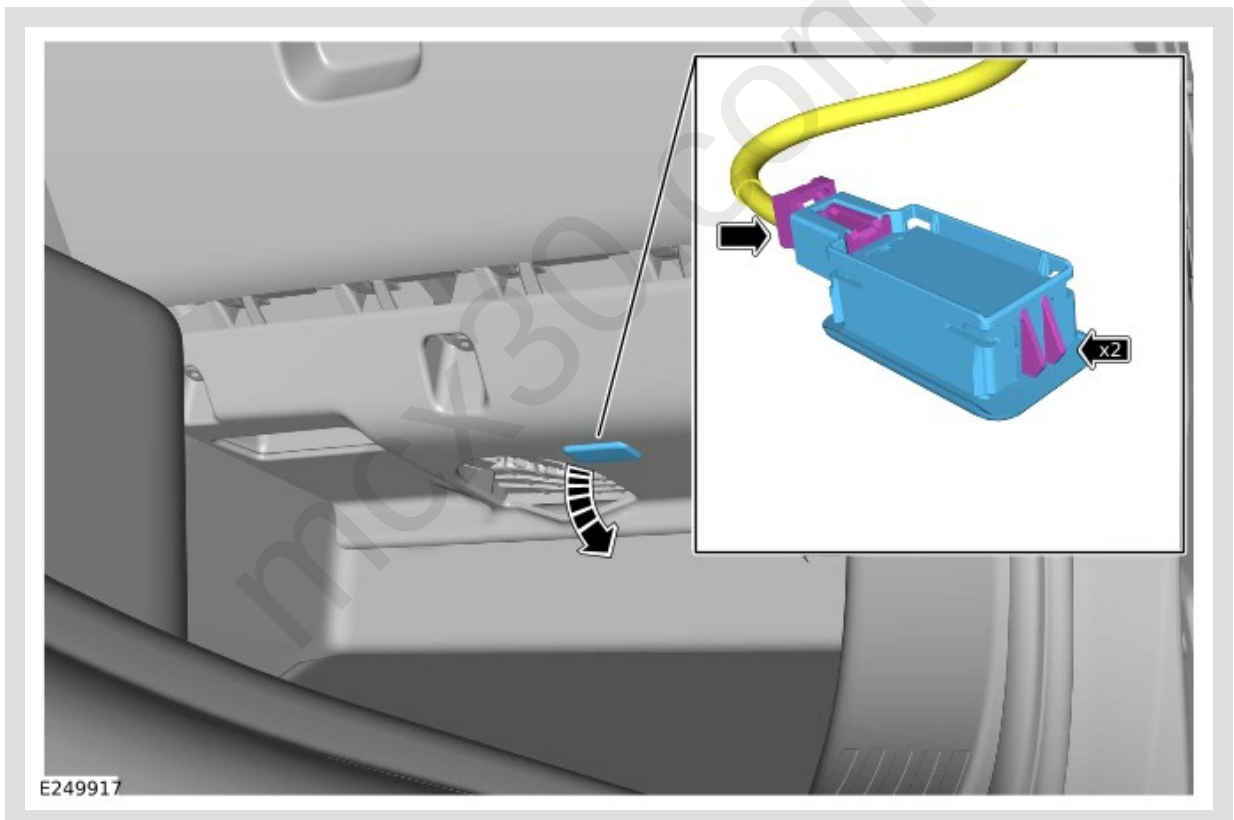
12. Disconnect the startup battery ground cable.

Refer to: [Startup Battery Disconnect and Connect](#) (414-00 Battery and Charging System - General Information, General Procedures).

- 13.

NOTE:

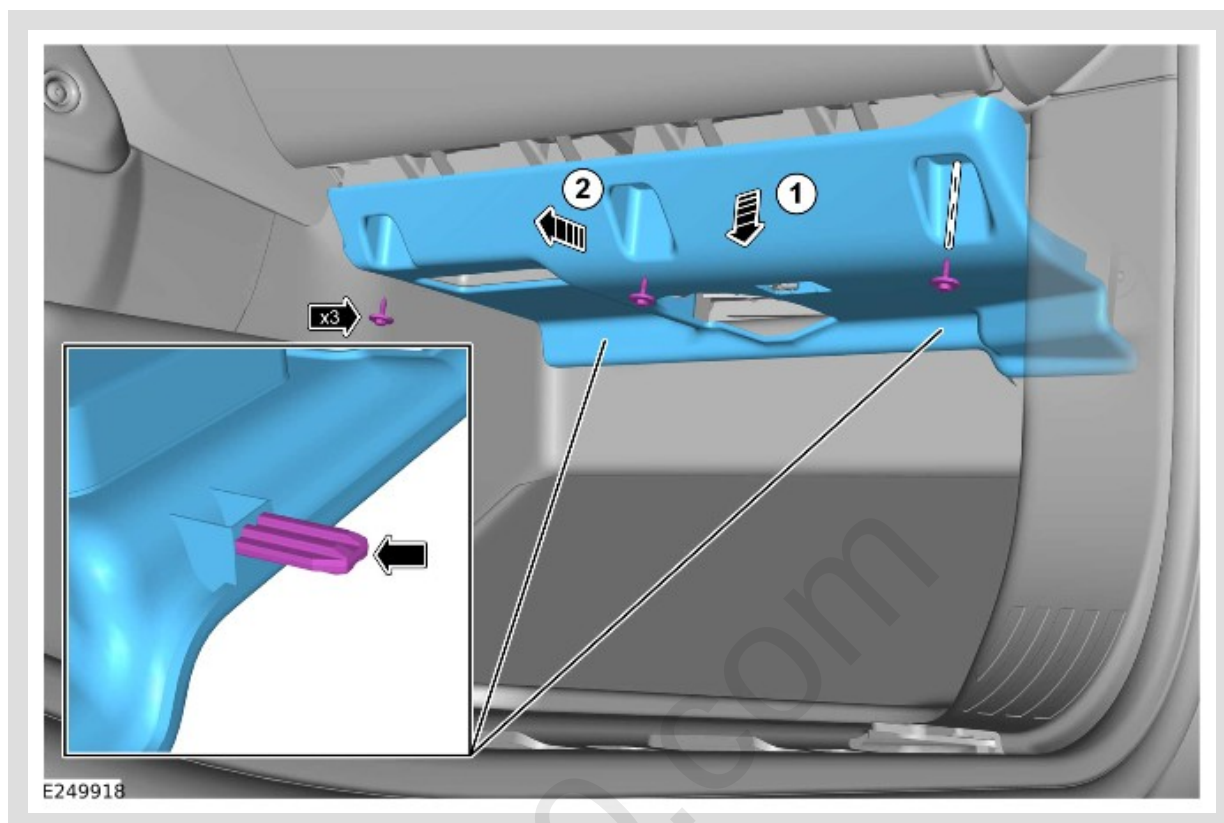
Repeat this step for the other side.



- Release the 2 clips.
- Disconnect the electrical connector from the right side footwell lamp.
- Remove the right side footwell lamp.

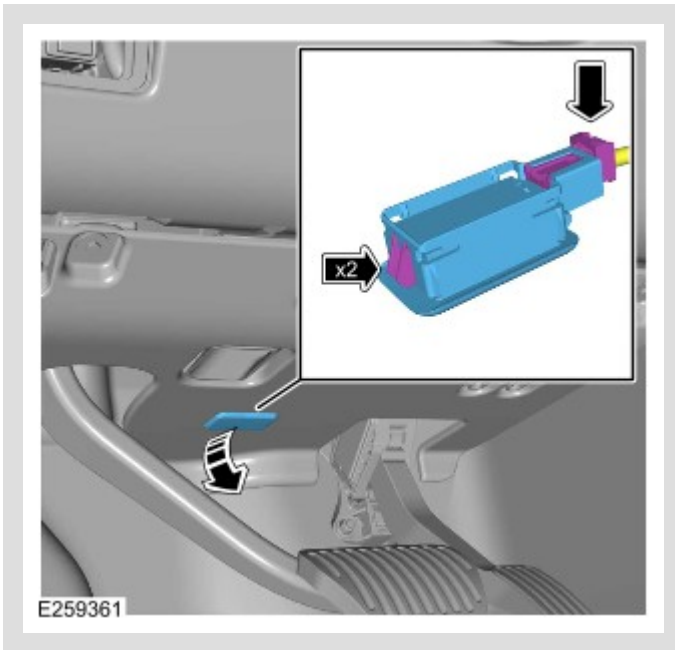
 NOTE:

Repeat this step for the other side.



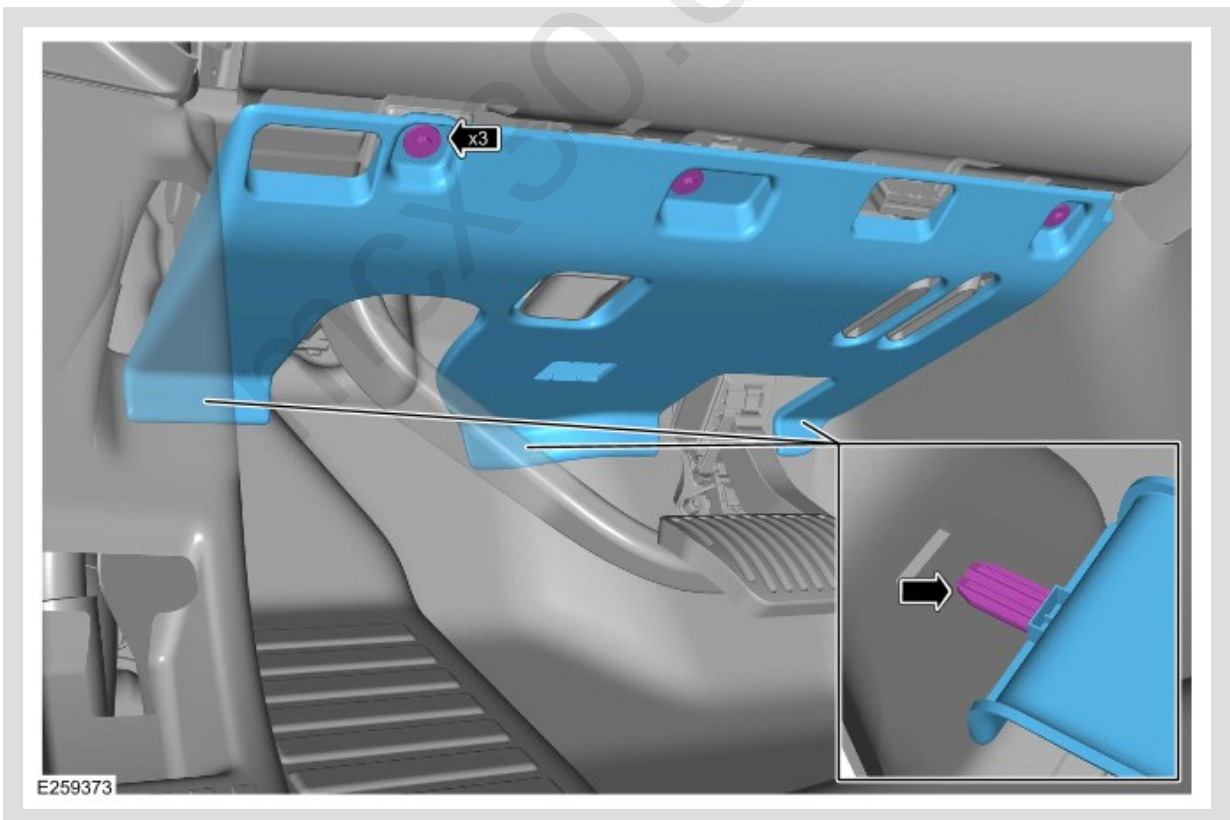
- Remove the 3 screws.
- Remove the right side footwell trim panel.

15.



- Release the 2 clips.
- Disconnect the electrical connector from the left side footwell lamp.
- Remove the left side footwell lamp.

16.

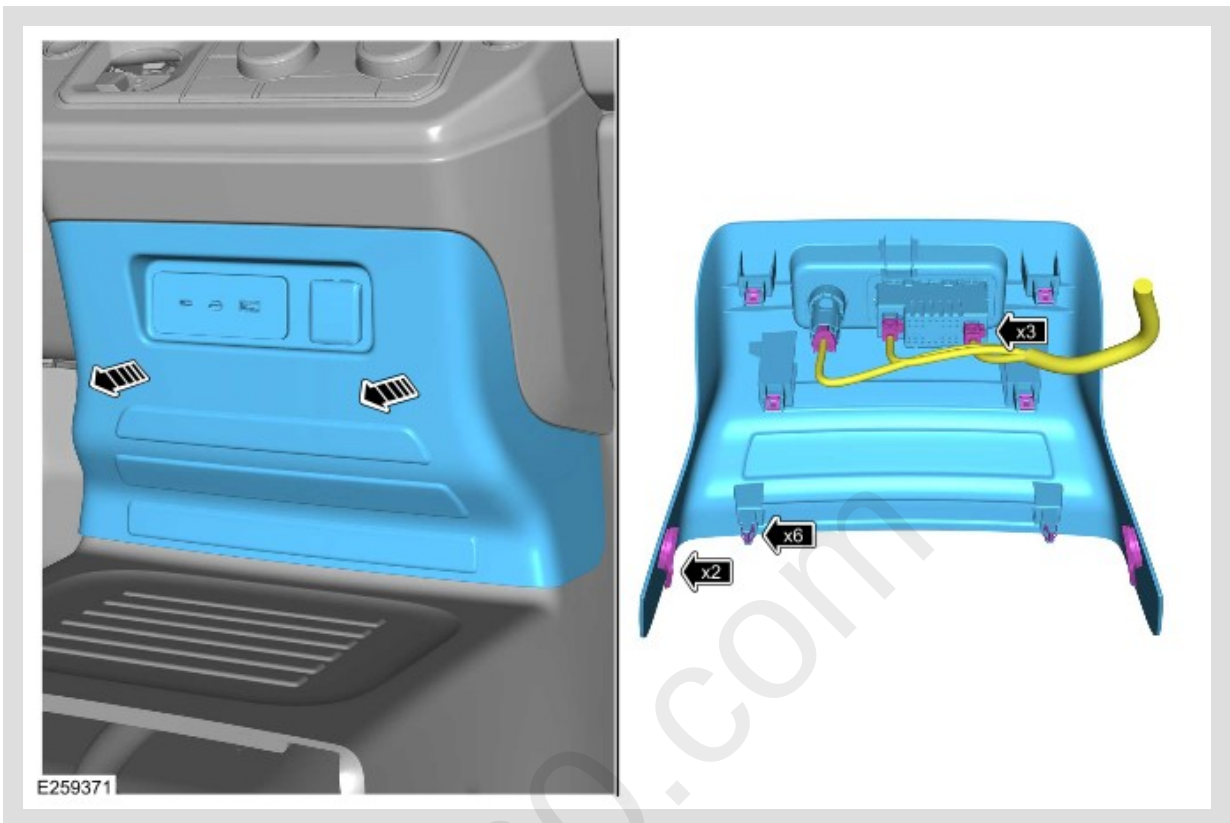


- Remove the 3 screws.
- Remove the left side footwell trim panel.

17. Remove the floor console.

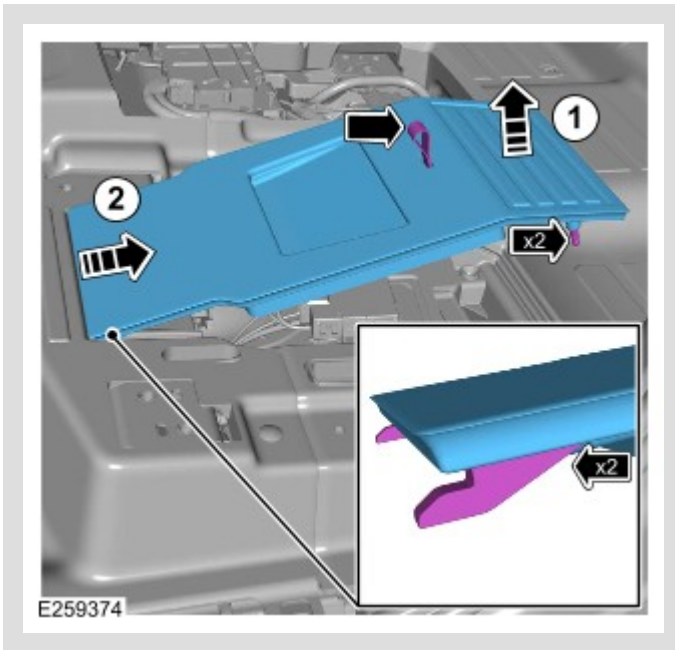
Refer to: [Floor Console - Vehicles Without: Stowage Compartment](#) (501-12 Instrument Panel and Console, Removal and Installation).

- 18.



- Release the 6 clips.
- Disconnect the 3 electrical connectors.
- Remove the instrument panel center trim.

19.



- Release the 2 clips.
- Remove the access cover as illustrated.

20.

Remove the A-pillar lower trim panel on both side.

Refer to: [A-Pillar Lower Trim Panel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

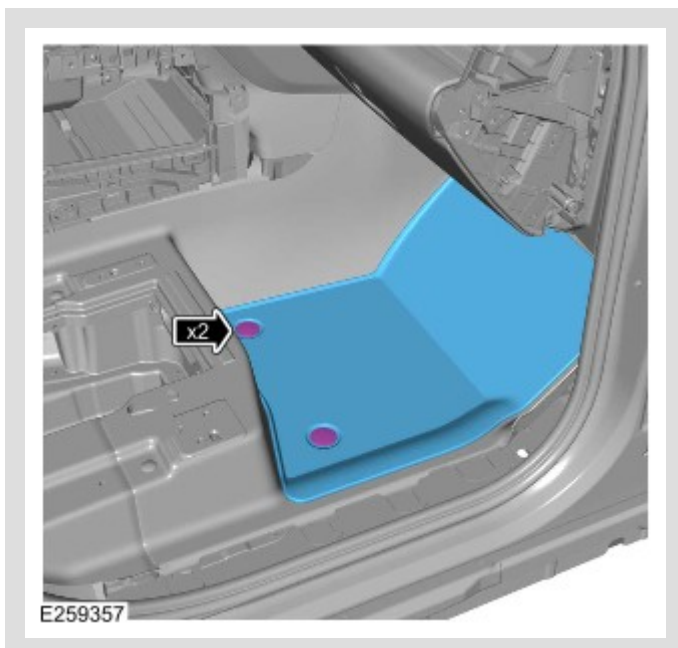
21.

Remove the front treadplate on both side.

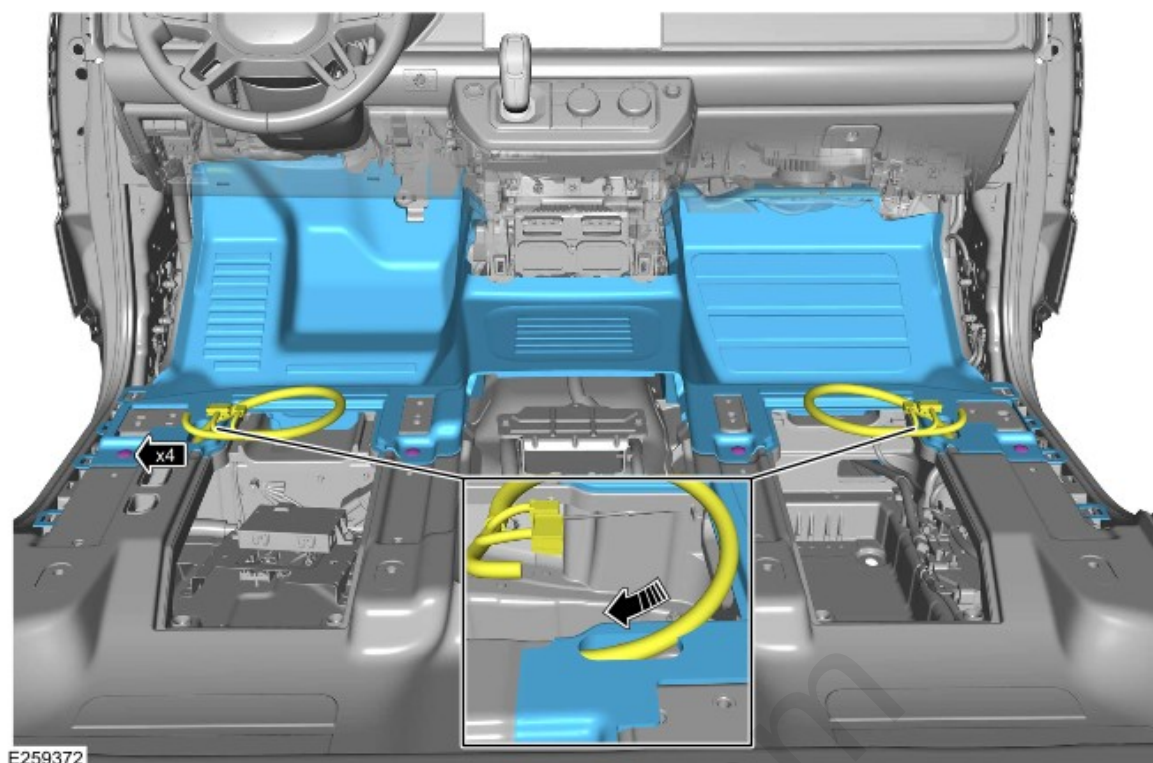
Refer to: [Front Treadplate](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

 NOTE:

Repeat this step for the other side.



- Release the 2 clips.
- Remove the floor mat.

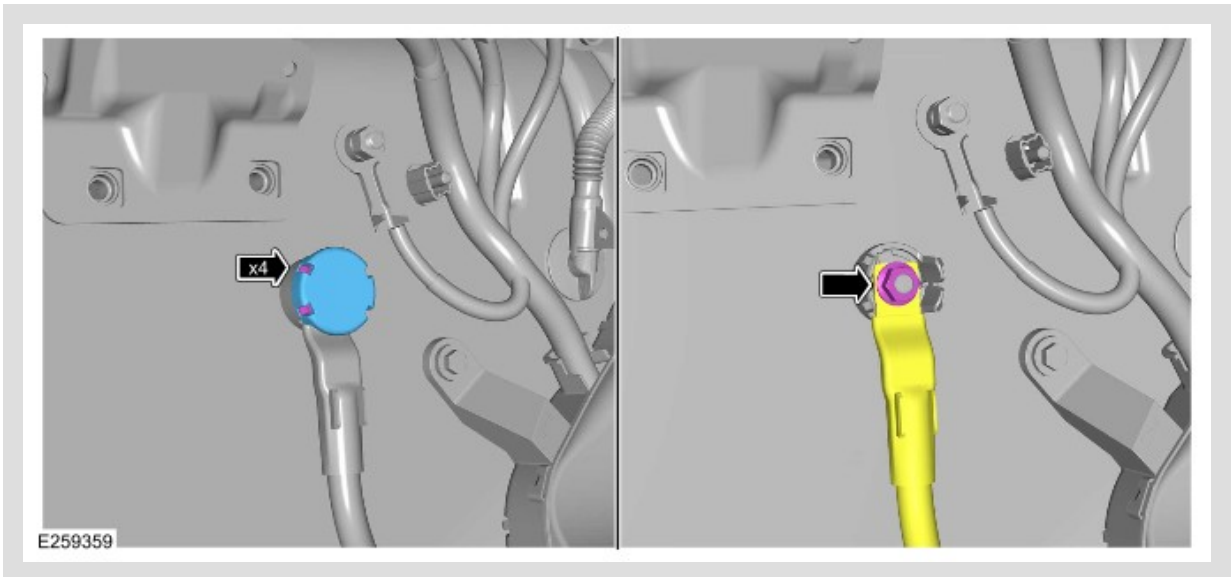


- Remove the 4 clips.
- Feed the 2 wiring harnesses through the floor carpet.
- Remove the front floor carpet.

The following step(s) applies to:

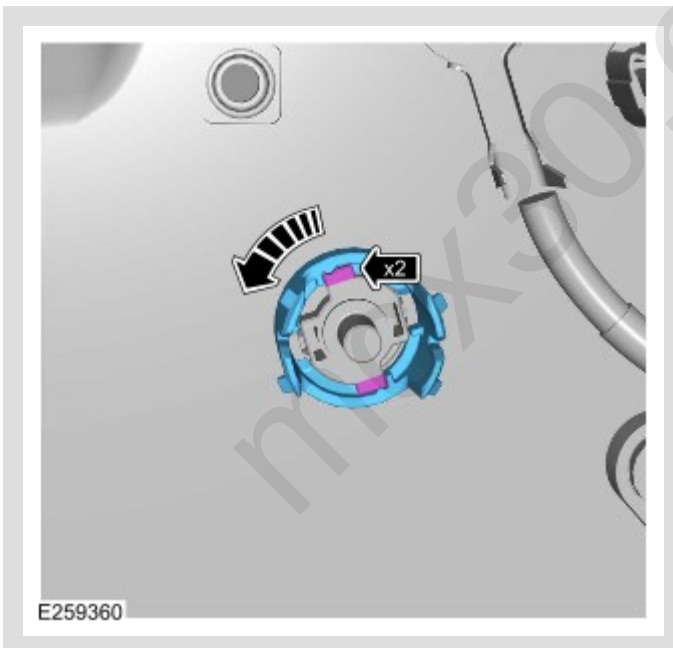
All vehicles

24.



- Remove the nut cover at the 4 clips.
- Remove the nut.
- Release the cable.

25.



Remove the battery cable lock as illustrated.

26.

Raise and support the vehicle on a suitable 2-post lift.

Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).

27.

Remove the engine.

Refer to: Engine Assembly Remove for Access (303-01A, Removal).

Refer to: [Engine - INGENIUM I4 2.0L Petrol](#) (303-01B Engine - INGENIUM I4 2.0L Petrol/INGENIUM I4 2.0 L Petrol - PHEV, Removal).

Refer to: [Engine Assembly Remove for Access](#) (303-01C Engine - INGENIUM I6 3.0L Petrol, Removal).

28. Remove the secondary bulkhead left panel.

Refer to: [Secondary Bulkhead Left Panel](#) (501-02 Front End Body Panels, Removal and Installation).

The following step(s) applies to:

Vehicles with fuel fired booster heater

29. Remove the Fuel Fired Booster Heater (FFBH).

Refer to: [Fuel Fired Booster Heater](#) (412-02 Auxiliary Climate Control, Removal and Installation).

The following step(s) applies to:

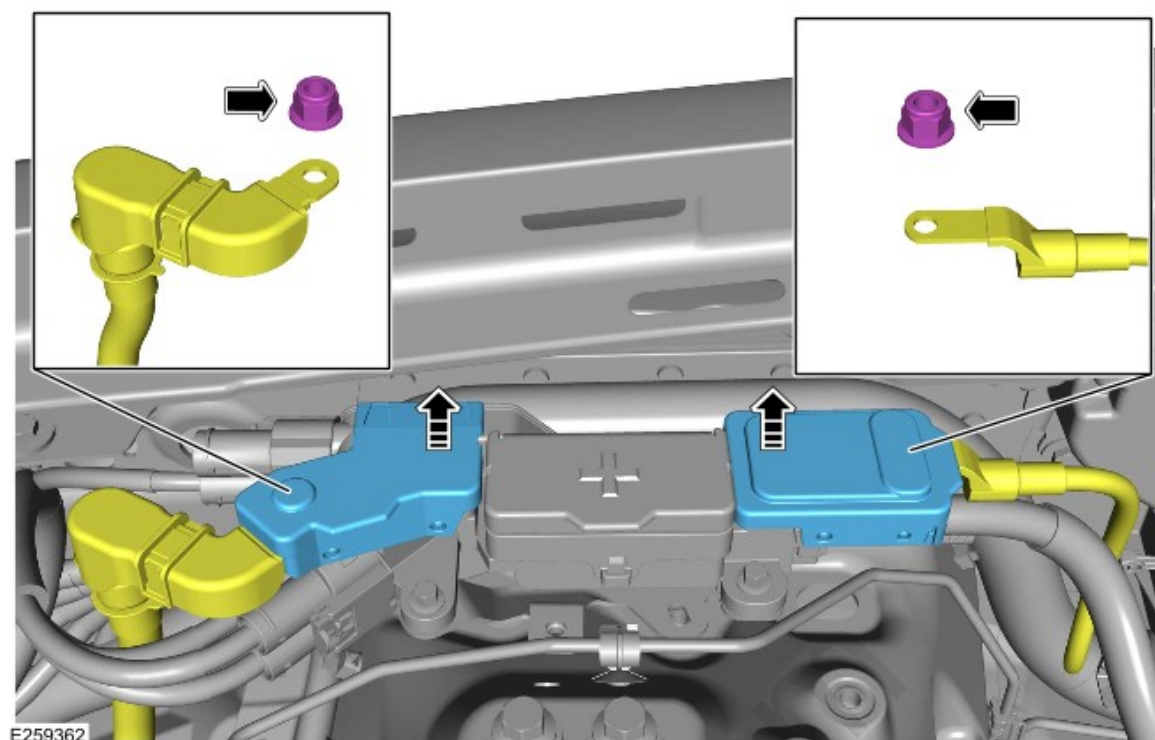
Vehicles without fuel fired booster heater

30. Remove the secondary bulkhead right panel.

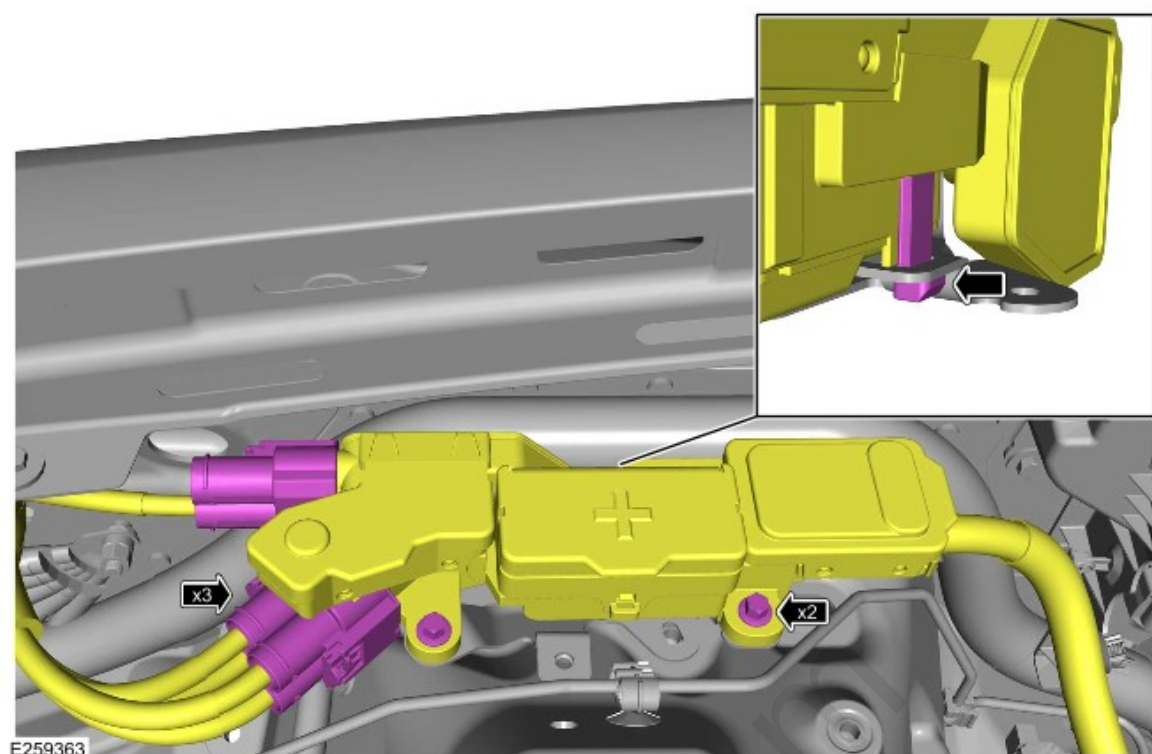
Refer to: [Secondary Bulkhead Right Panel](#) (501-02 Front End Body Panels, Removal and Installation).

The following step(s) applies to:

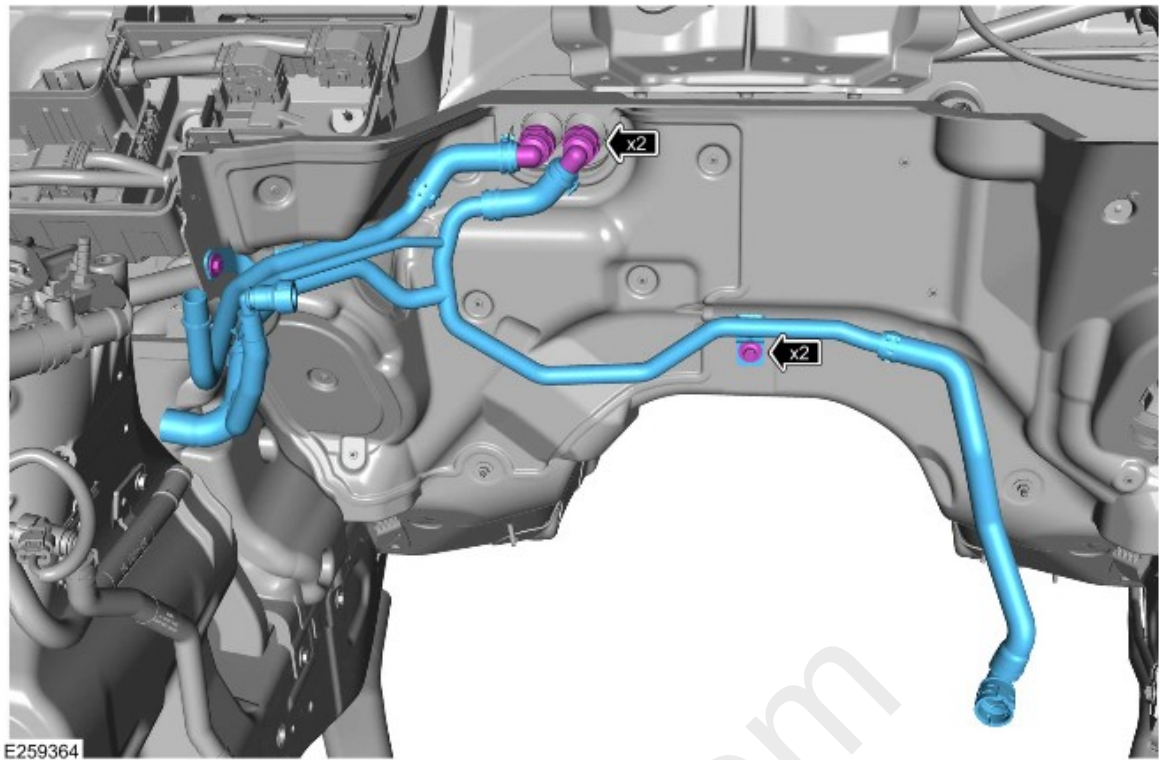
All vehicles



- Remove the 2 covers.
- Remove the 2 nuts.
- Release the 2 cables.

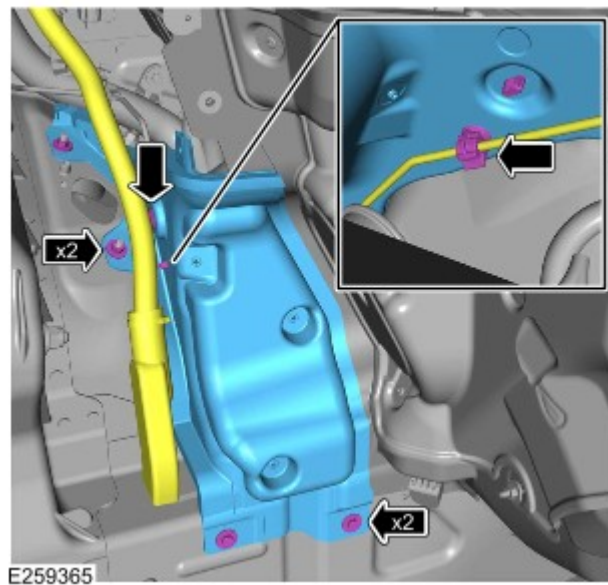


- Disconnect the 3 electrical connectors from the jump start terminal.
- Remove the 2 bolts.
- Release the jump start terminal at the clip.



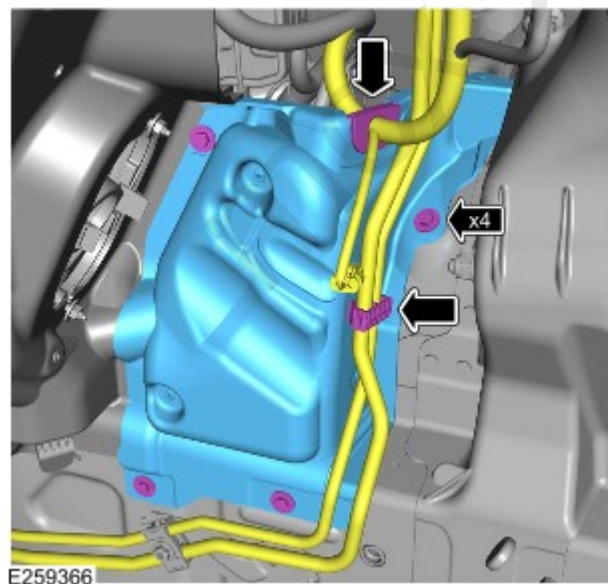
- Disconnect the 2 coolant hose connectors from the climate control assembly.
- Remove the 2 bolts.
- Remove the coolant pipe assembly.

34.



- Release the brake pipe from the clip.
- Release the startup battery positive cable clip.
- Remove the 2 nuts.
- Remove the 2 bolts.
- Remove the right lower secondary bulkhead panel.

35.

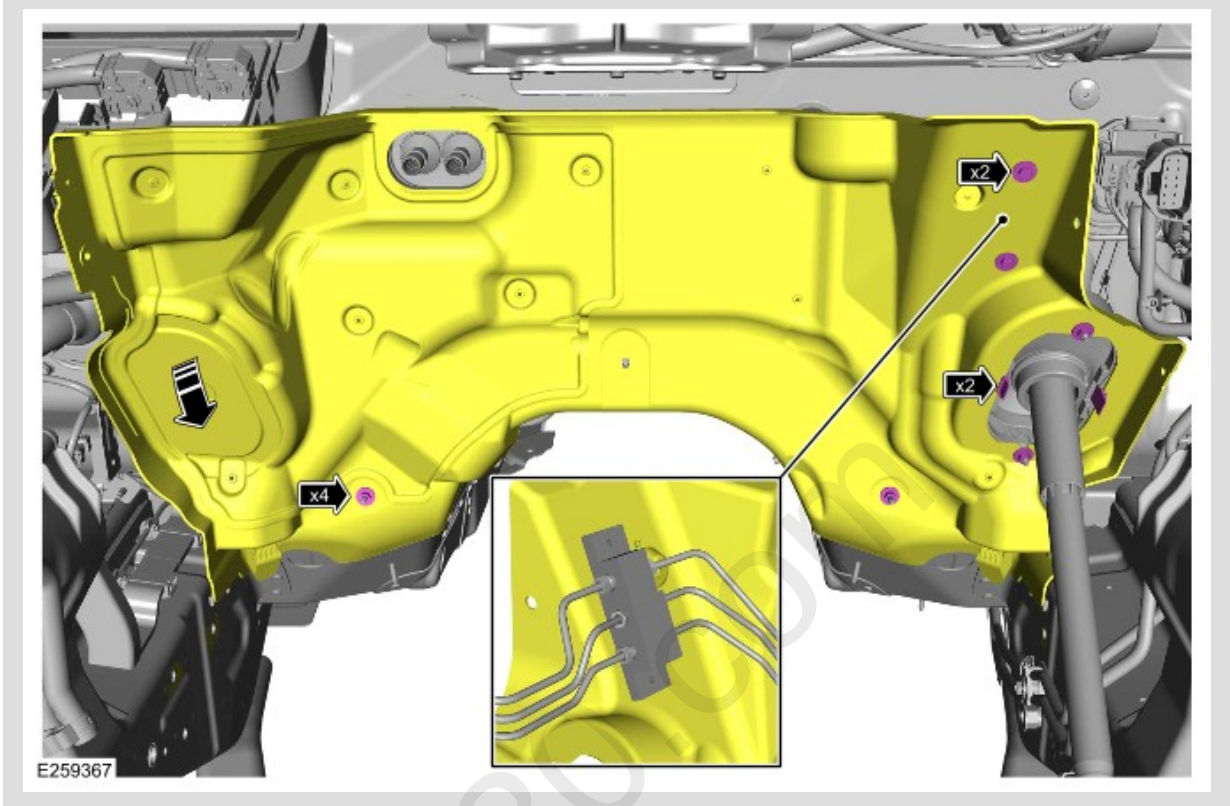


- Release the wiring harness grommet.
- Release the clip.
- Remove the 4 bolts.
- Remove the left lower secondary bulkhead panel.

The following step(s) applies to:

Left hand drive vehicles

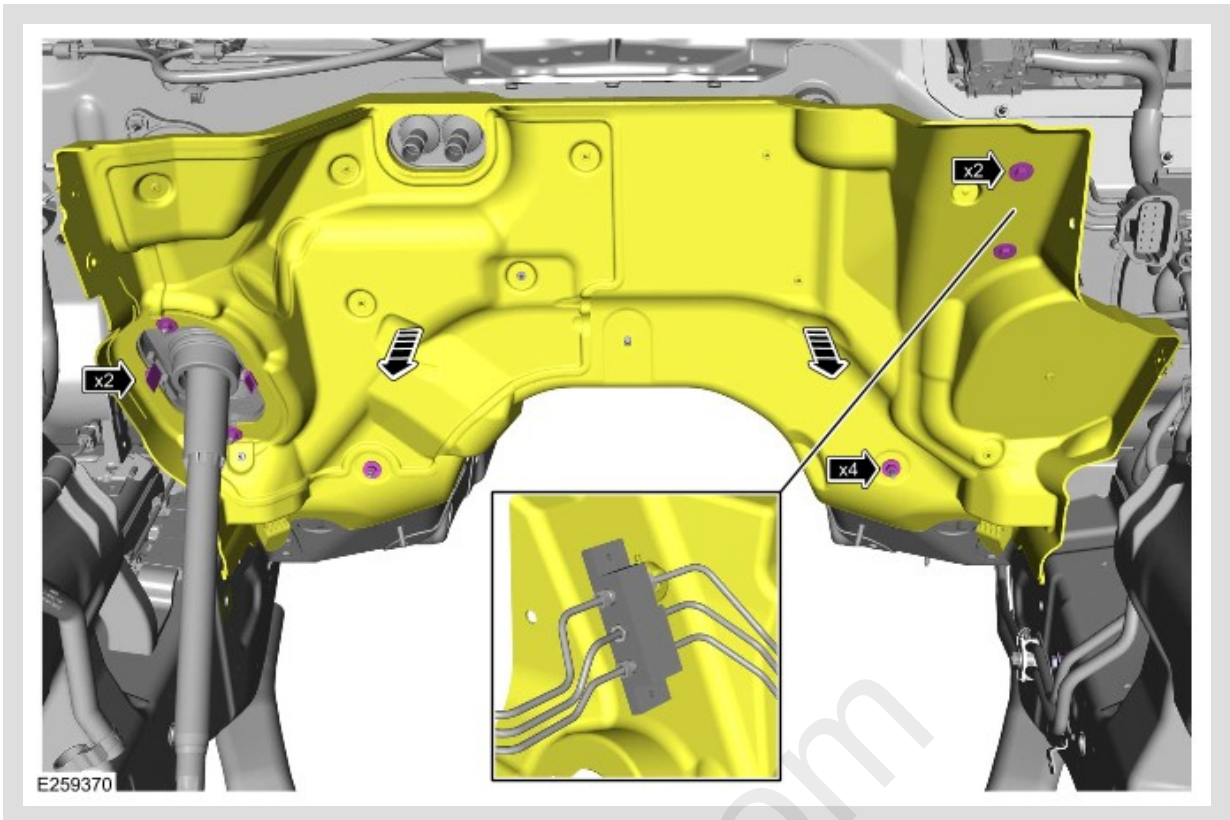
36.



- Remove the 2 bolts.
- Remove the 4 nuts.
- Release the 2 clips.
- Move aside the lower secondary bulkhead panel.

The following step(s) applies to:

Right hand drive vehicles

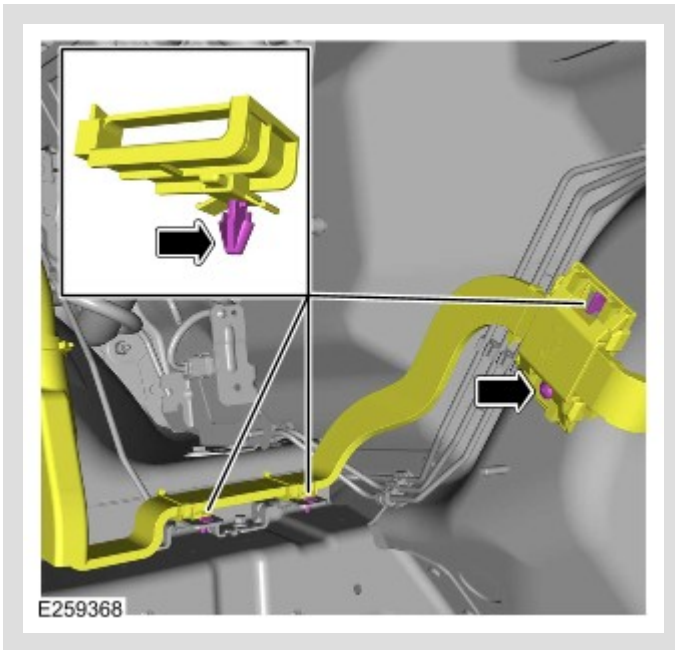


- Remove the 2 bolts.
- Remove the 4 nuts.
- Release the 2 clips.
- Move aside the lower secondary bulkhead panel.

The following step(s) applies to:

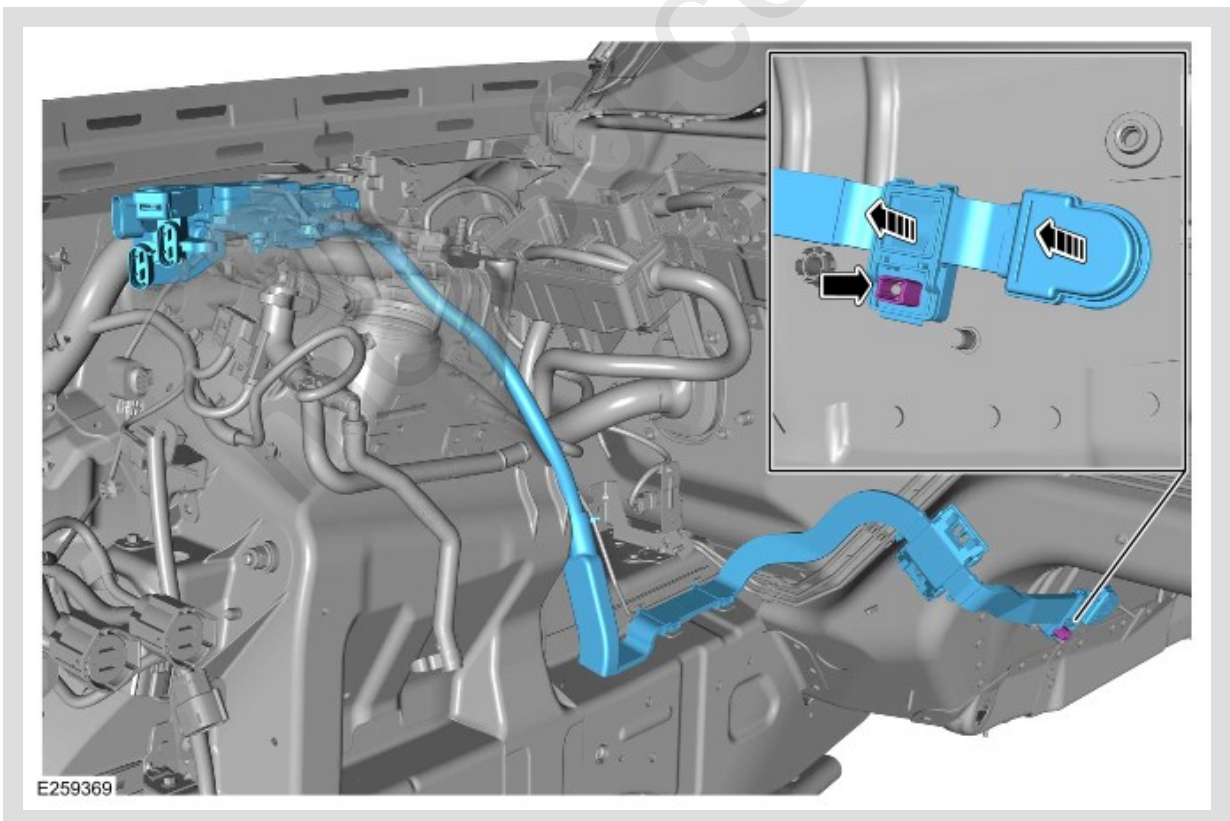
All vehicles

38.



- Remove the screw.
- Release the startup battery positive cable at the 3 clips.

39.



- Release the startup battery positive cable clip.
- Remove the startup battery positive cable.

INSTALLATION

The following step(s) applies to:

All vehicles

1.

- Install the startup battery positive cable at the 4 clips.
- Install and tighten the screw.
Torque: 12Nm

2.

- Reposition the lower secondary bulkhead panel.
- Install and tighten the 4 nuts.
Torque: 6Nm
- Install and tighten the 2 bolts.
Torque: 6Nm
- Secure the 2 clips.

3.

- Install the left lower secondary bulkhead panel.
- Install and tighten the 4 bolts.
Torque: 6Nm
- Install the wiring harness grommet.
- Secure the clip.

4.

- Install the right lower secondary bulkhead panel.
- Install and tighten the 2 bolts.
Torque: 6Nm
- Install and tighten the 2 nuts.
Torque: 6Nm
- Secure the startup battery positive cable clip.
- Install the brake pipe to the clip.

5.

- Install the coolant pipe assembly.
- Install and tighten the 2 bolts.
Torque: 6Nm
- Connect the 2 coolant hose connectors to the climate control assembly.

6.

- Install the jump start terminal to the clip.
- Install and tighten the 2 bolts.
Torque: 10Nm
- Connect the 3 electrical connectors to the jump start terminal.

7.

- Install the 2 cables to the jump start terminal.
- Install and tighten the 2 nuts.
Torque: 12Nm
- Install the 2 covers.

The following step(s) applies to:

Vehicles with fuel fired booster heater

8.

Install the FFBH.

Refer to: [Fuel Fired Booster Heater](#) (412-02 Auxiliary Climate Control, Removal and Installation).

The following step(s) applies to:

Vehicles without fuel fired booster heater

9.

Install the secondary bulkhead right panel.

Refer to: [Secondary Bulkhead Right Panel](#) (501-02 Front End Body Panels, Removal and Installation).

The following step(s) applies to:

All vehicles

10.

Install the secondary bulkhead left panel.

Refer to: [Secondary Bulkhead Left Panel](#) (501-02 Front End Body Panels, Removal and Installation).

11.

Install the engine.

Refer to: Engine Assembly Remove for Access (303-01A, Removal).

Refer to: [Engine - INGENIUM I4 2.0L Petrol](#) (303-01B Engine - INGENIUM I4 2.0L Petrol - PHEV, Removal).

Refer to: [Engine Assembly Remove for Access](#) (303-01C Engine - INGENIUM I6 3.0L Petrol, Removal).

12.

Install and secure the startup battery positive cable lock.

13.

- Install the cable.
- Install and tighten the nut.
Torque: 12Nm
- Install the nut cover at the 4 clips.

The following step(s) applies to:

Vehicles without stowage compartment

14.

- Install the front floor carpet.
- Feed the 2 wiring harnesses through the floor carpet.
- Install the 4 clips.

15.



NOTE:

Repeat this step for the other side.

- Install the front floor mat.
- Install the 2 clips.

16.

Install the front treadplate on both side.

Refer to: [Front Treadplate](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

17.

Install the A-pillar lower trim panel on both side.

Refer to: [A-Pillar Lower Trim Panel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

18.

- Install the access cover.
- Secure the 2 clips.

19.

- Connect the 3 electrical connectors.
- Install the instrument panel center trim at the 6 clips.

20.

Install the floor console.

Refer to: [Floor Console - Vehicles Without: Stowage Compartment](#) (501-12 Instrument Panel and Console, Removal and Installation).

21.

- Install the left side footwell trim panel.
- Install and tighten the 3 screws.
Torque: 5Nm
- Connect the electrical connector to the left side footwell lamp.
- Install the left side footwell lamp to the 2 clips.

22.

- Install the right side footwell trim panel.
- Install and tighten the 3 screws.
Torque: 5Nm
- Connect the electrical connector to the right side footwell lamp.
- Install the right side footwell lamp to the 2 clips.

23.

Connect the startup battery ground cable.

Refer to: [Startup Battery Disconnect and Connect](#) (414-00 Battery and Charging System - General Information, General Procedures).

24.

Install the front row seat on both side.

Refer to: [Front Row Seat - Vehicles With: Power Seats](#) (501-10 Seating, Removal and Installation).

Refer to: [Front Row Seat - Vehicles Without: Power Seats](#) (501-10 Seating, Removal and Installation).

The following step(s) applies to:
Vehicles with stowage compartment

25.

- Install the front right side floor carpet.
- Feed the wiring harness through the floor carpet.
- Install the 2 clips.

26.

- Install the front floor mat.
- Install the 2 clips.

27.

Install the front right side treadplate.

Refer to: [Front Treadplate](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

28.

Install the right A-pillar lower trim panel.

Refer to: [A-Pillar Lower Trim Panel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

29.

- Install the right side footwell trim panel.
- Install and tighten the 3 screws.
Torque: 5Nm
- Connect the electrical connector to the right side footwell lamp.
- Install the right side footwell lamp to the 2 clips.

30.

 NOTE:

Make sure that the bolts are centered in the bolt hole.

- Install the floor console side trim panel at the 15 clips.
- Install and tighten the 4 bolts.
Torque: 2.2Nm

31.

Connect the startup battery ground cable.

Refer to: [Startup Battery Disconnect and Connect](#) (414-00 Battery and Charging System - General Information, General Procedures).

32.

Install the front row right seat.

Refer to: [Front Row Seat - Vehicles With: Power Seats](#) (501-10 Seating, Removal and Installation).

Refer to: [Front Row Seat - Vehicles Without: Power Seats](#) (501-10 Seating, Removal and Installation).