

Published: 11-May-2011

Instrument Panel and Console -

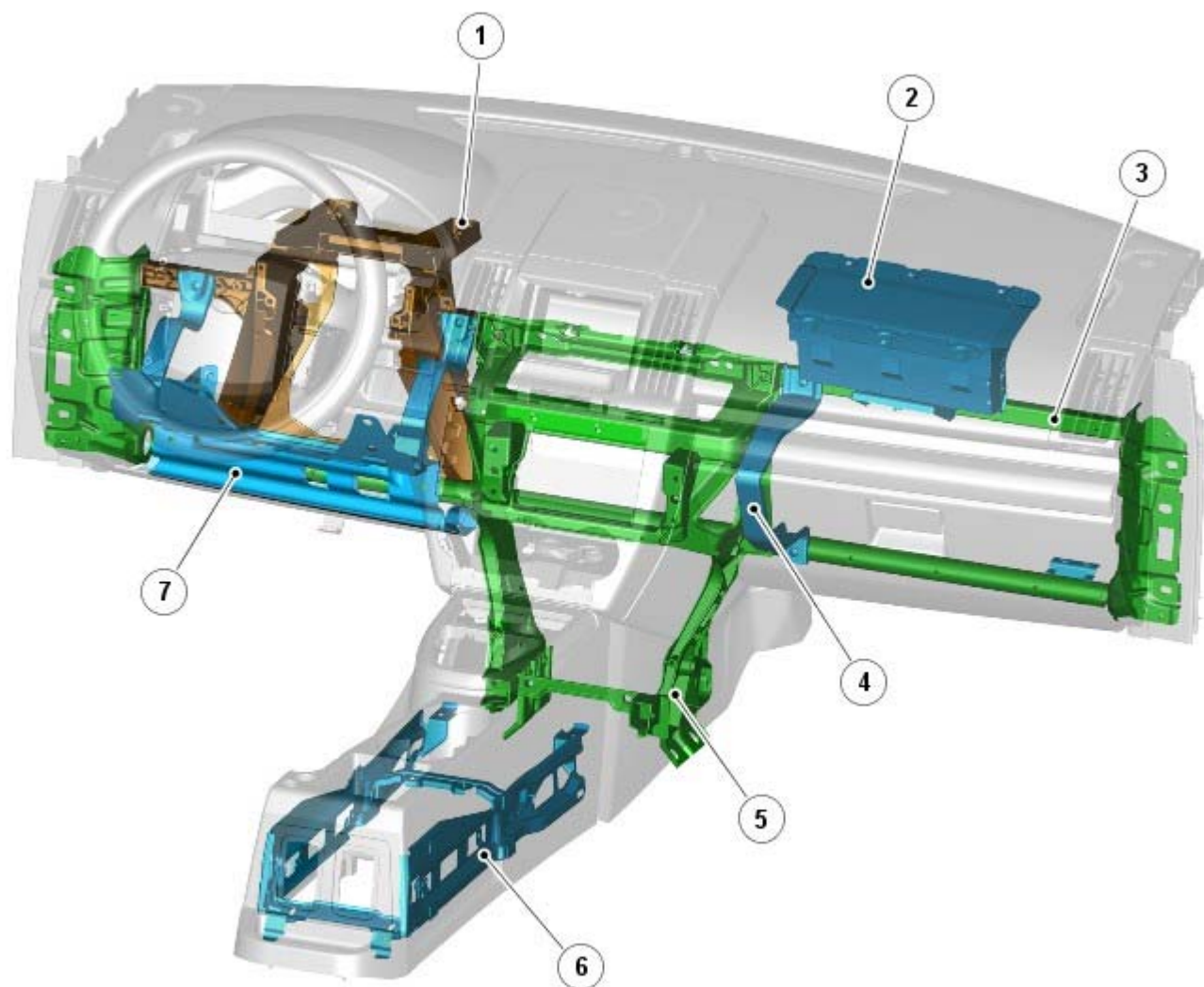
Torque Specifications

Description	Nm	lb-ft
Instrument panel:		
M8 Bolts	24	18
M12 Bolts	40	30
Instrument panel console switch	3	2
Instrument panel Torx bolts	3	2
ECM Bracket	10	7

Instrument Panel and Console - Instrument Panel

Description and Operation

COMPONENT LOCATION



E76414

Item	Part Number	Description
1	-	Steering column mounting
2	-	Passenger air bag
3	-	Cross car beam
4	-	Passenger side energy absorbing bracket - North American Specification (NAS) vehicles only
5	-	Center console mounting
6	-	Floor console support
7	-	Driver side energy absorbing assembly

OVERVIEW

The instrument panel incorporates a tubular steel cross car beam. An energy absorbing assembly is bolted to the drivers side of the cross car beam. The energy absorbing assembly comprises 2 deformable brackets welded to a cross brace. NAS vehicles also feature a single energy absorbing bracket bolted to the passenger side of the cross car beam.

Secured to the center of the cross car beam is a cast magnesium structure which provides support and mounting points for the center console. Mounted on the driver side of the cross car beam is the steering column support, which is also manufactured from magnesium. The cross car beam also provides a mounting point for the dual stage passenger air bag. For additional information, refer to: [Air Bag and Safety Belt Pretensioner Supplemental Restraint System \(SRS\)](#) (501-20B Supplemental Restraint System, Description and Operation).

The instrument panel consists of 2 plastic moldings (upper and lower) which are welded together to provide a single assembly. The instrument panel provides mounting points for various driver and passenger interfaces. Also contained within the instrument panel are the air distribution ducts, vents and registers. For additional information, refer to: [Air Distribution and Filtering](#) (412-01 Climate Control, Description and Operation).

Instrument Panel and Console - Instrument PanelTD4 2.2L Diesel

Removal and Installation

Removal

1. Make the SRS system safe.

Refer to: Supplemental Restraint System (SRS) Depowering and Repowering (501-20, General Procedures).

2. Remove the windshield wiper motor.

Refer to: [Windshield Wiper Motor](#) (501-16 Wipers and Washers, Removal and Installation).

3. Evacuate the A/C system.

Refer to: [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging](#) (412-00 Climate Control System - General Information, General Procedures).

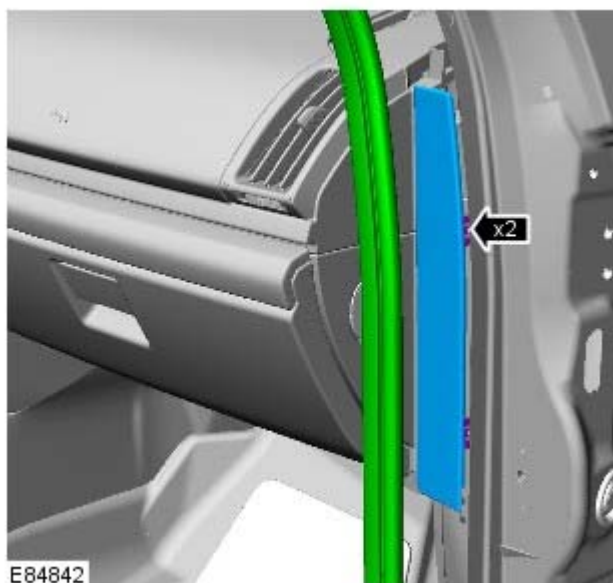
4. Remove both front door assemblies.

Refer to: [Front Door](#) (501-03 Body Closures, Removal and Installation).

5. Remove both A-pillar upper trim panels.

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

6. Remove the A-pillar center trim panels.





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7. Release the forward edge of both scuff plate trim panels.

8. Remove both cowl side trim panels.

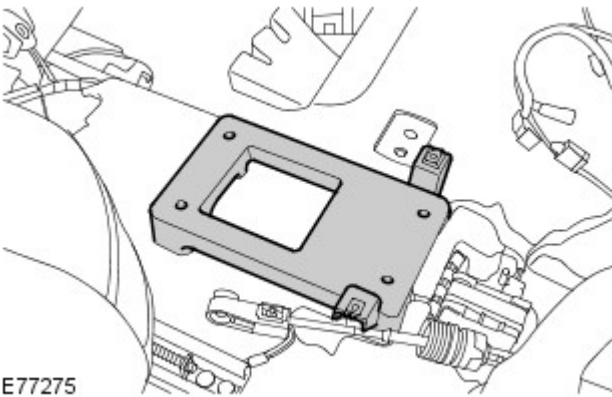
Refer to: [Cowl Side Trim Panel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

9. Remove the LH front seat.

Refer to: [Front Seat](#) (501-10 Seating, Removal and Installation).

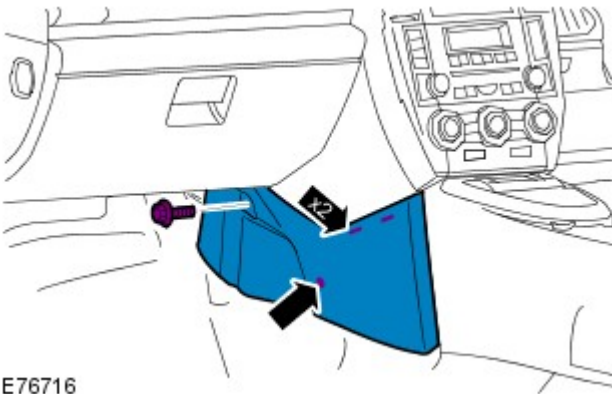
10. Remove the transmission selector lever.

Refer to: [Selector Lever Assembly](#) (307-05 Automatic Transmission/Transaxle External Controls, Removal and Installation).



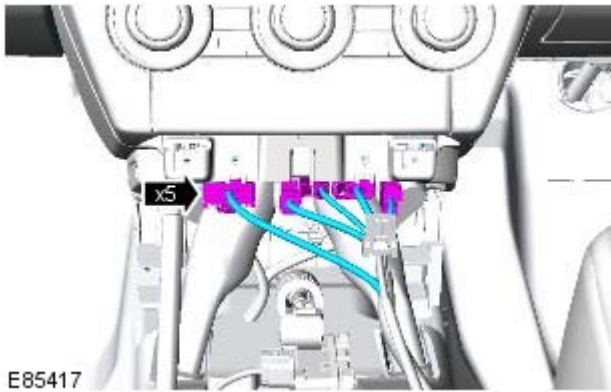
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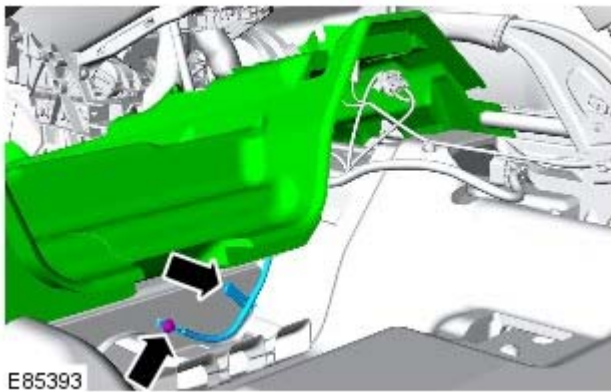


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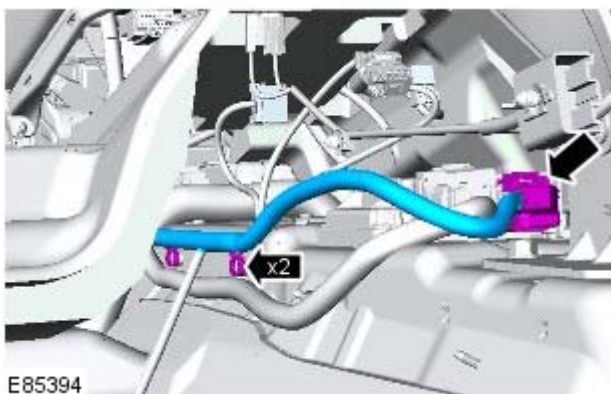
12. Remove both floor console extensions.



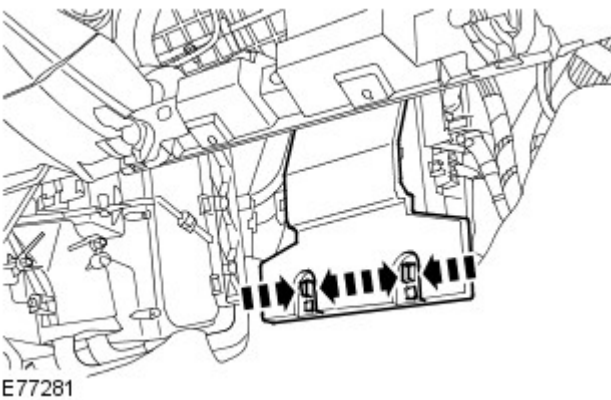
13.  **CAUTION:** Cover fiber optic cable connectors to minimize dust ingress and avoid bending the cables in a radius of more than 30 mm.



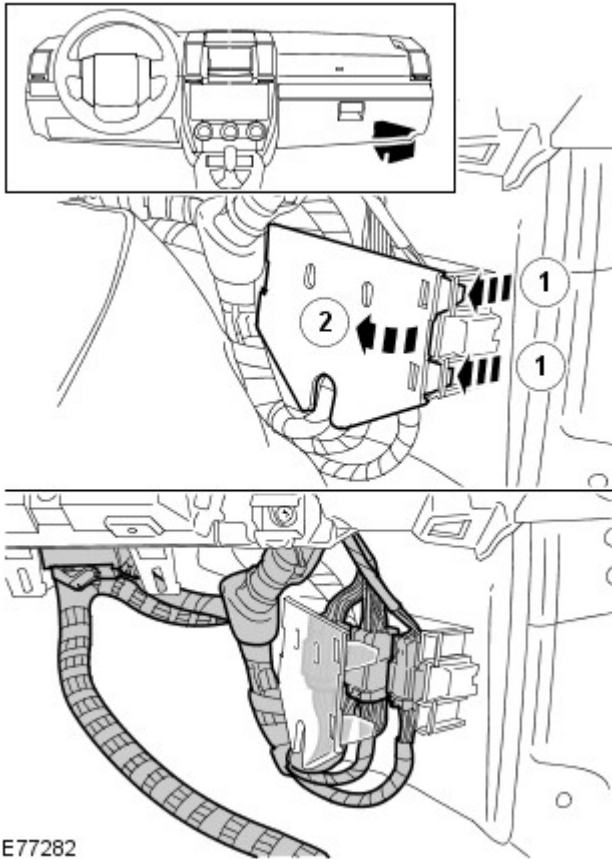
14. Release the earth lead.



15. Release the instrument panel harness from the transmission tunnel.

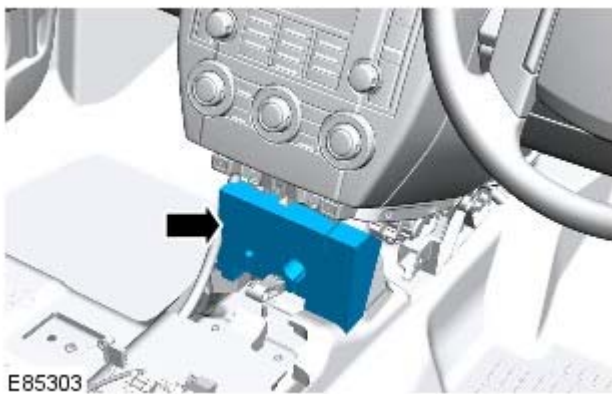


16. Remove the auxiliary junction box access cover.

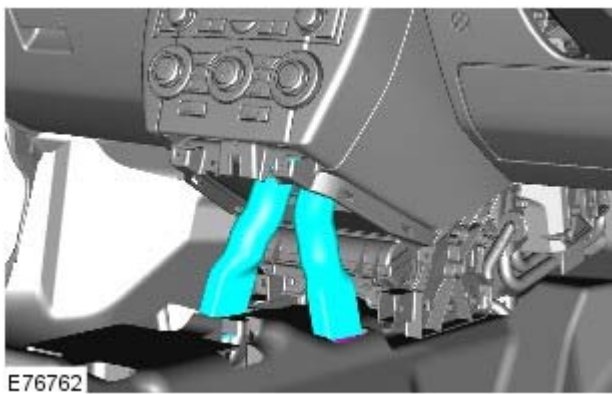


17. **NOTE:** LHD illustration shown, RHD is similar.

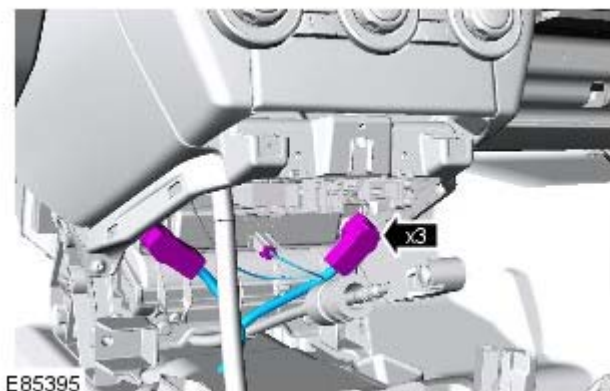
Release the instrument panel wiring harness.



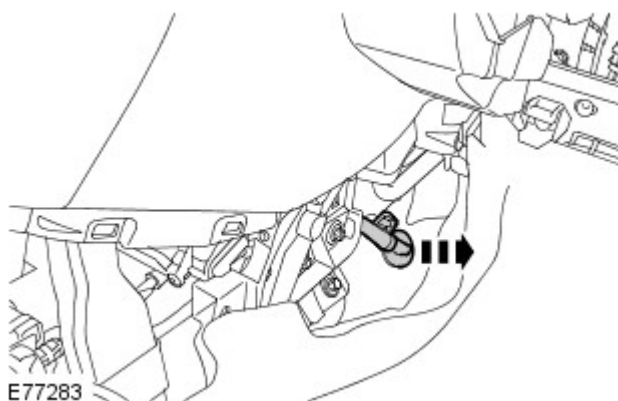
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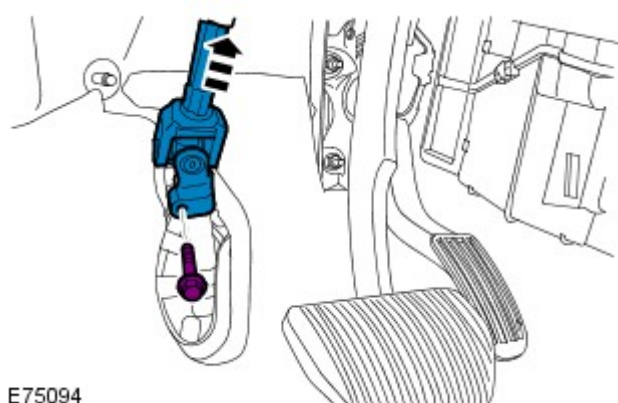
19. Remove both of the center, lower ducts from the heater housing.



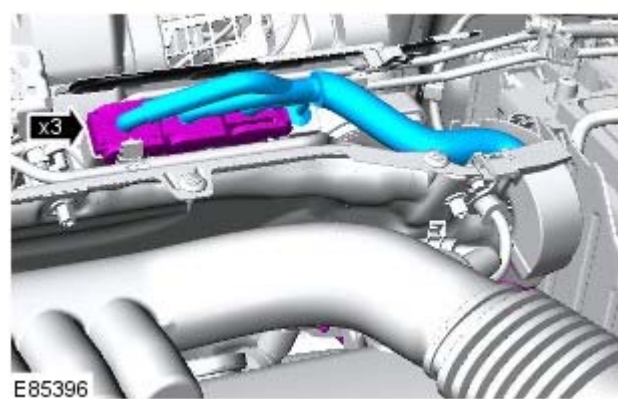
20. Disconnect the electric booster heater core.



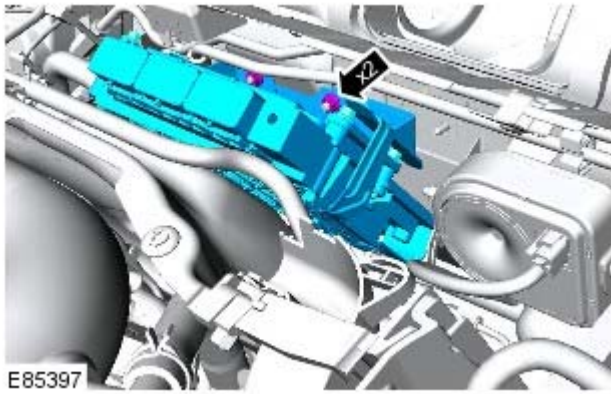
21. Disconnect the drain tube from the heater housing.



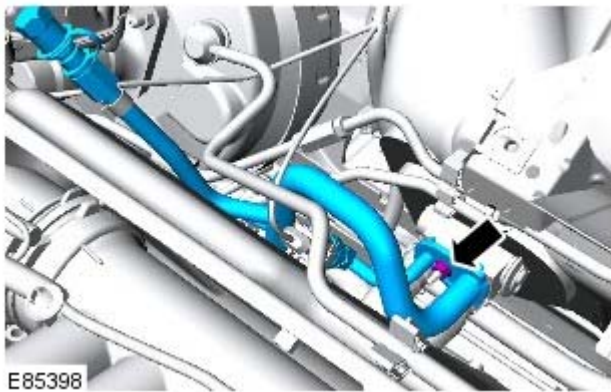
22. Disconnect the steering column lower shaft from the steering column.



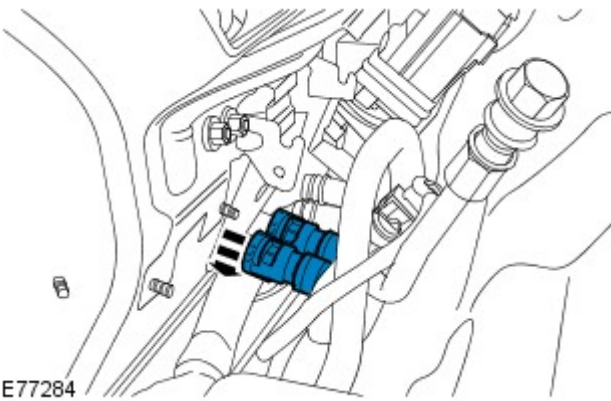
23. Disconnect the ECM electrical connectors.



24. Remove the ECM bracket assembly.

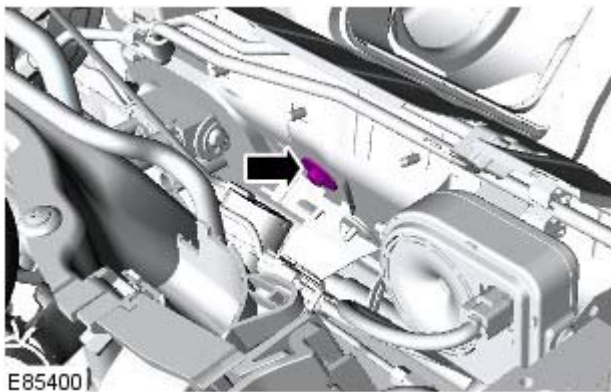


25. Disconnect the A/C pipes from the TXV.

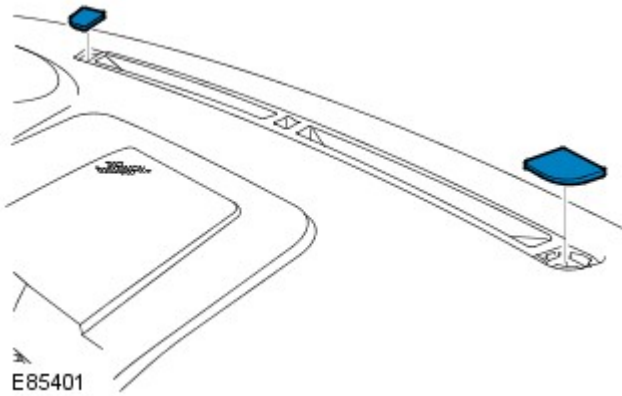


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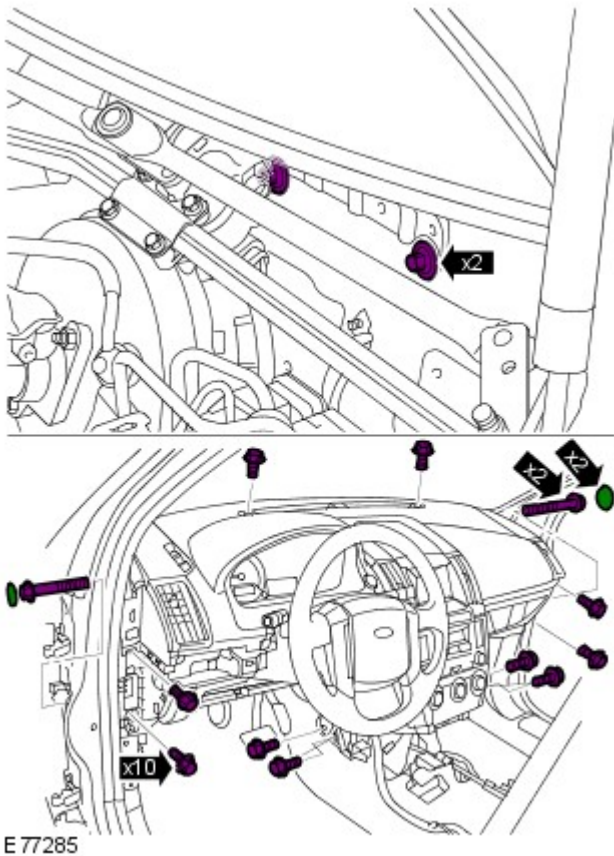
- Clamp the hoses to minimize coolant loss.
- Rotate the outer ring counter-clockwise and disconnect the hose.



27.



28. Remove the windshield defroster outer finishers.



29.

- Remove the A-pillar bolt covers.
- Protect the surrounding bodywork and remove the 2 side fixing bolts.
- Remove the 10 bolts.
- Remove the 2 screws.
- Install protective covers to interior trim.
- With assistance, remove the instrument panel.

Installation

1.

- Install and tighten the M8 bolts.

Torque: 24 Nm

- Install and tighten the M12 bolts.

Torque: 40 Nm

- Install the 2 screws.
- Remove protective tape and covers.
- Install the bolt covers.

2. Install the windshield defroster outer finishers.

3. Install the heater housing bolt.

4. Install the heater core inlet and outlet hoses.
5. Remove the coolant hose clamps.
6. Connect the A/C pipes to the TXV and tighten the M6 nut.

Torque: 10 Nm

7. Install the ECM bracket assembly and tighten the nuts.

Torque: 10 Nm

8. Connect the ECM electrical connectors.

9.  **WARNING:** Make sure that a new bolt is installed.

Connect the steering column lower shaft and tighten the bolt.

Torque: 25 Nm

10. Connect the drain tube to the heater housing.
11. Connect the electric booster heater core.
12. Install the center, lower ducts to the heater housing.
13. Install the NVH pad.
14. Install the instrument panel wiring harness.
15. Install the auxiliary junction box access cover.
16. Secure the instrument panel harness to the transmission tunnel.
17. Secure and tighten the earth lead.

Torque: 10 Nm

18. Connect the body harness to the instrument panel.
19. Install the floor console extensions.
20. Install the selector lever mounting bracket.
21. Install the transmission selector lever.

Refer to: [Selector Lever Assembly](#) (307-05 Automatic Transmission/Transaxle External Controls, Removal and Installation).

22. Install the LH front seat.

Refer to: [Front Seat](#) (501-10 Seating, Removal and Installation).

23. Install both cowl side trim panels.

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

24. Secure both scuff plate trim panels.

25. Install the A-pillar center trim panels.

26. Install both A-pillar upper trim panels.

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

27. Install both front door assemblies.

Refer to: [Front Door](#) (501-03 Body Closures, Removal and Installation).

28. Recharge the A/C system.

Refer to: [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging](#) (412-00 Climate Control System - General Information, General Procedures).

29. Install the windshield wiper motor.

Refer to: [Windshield Wiper Motor](#) (501-16 Wipers and Washers, Removal and Installation).

30. Connect the battery ground cable.

Refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).

31. Check and top-up the coolant.

Instrument Panel and Console - Instrument Panel Upper Section

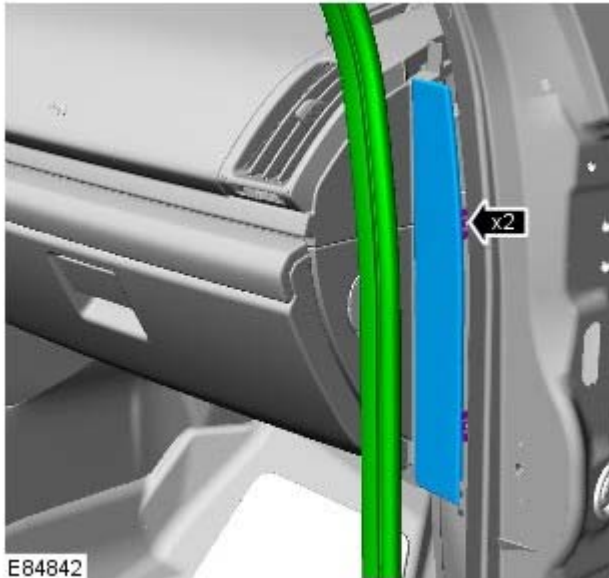
Removal and Installation

Removal

1. Make the SRS system safe.
2. Remove both A-pillar upper trim panels.

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

3. Remove the A-pillar center trim panels.



4. Release the forward edge of both scuff plate trim panels.



5. Remove both cowl side trim panels.

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

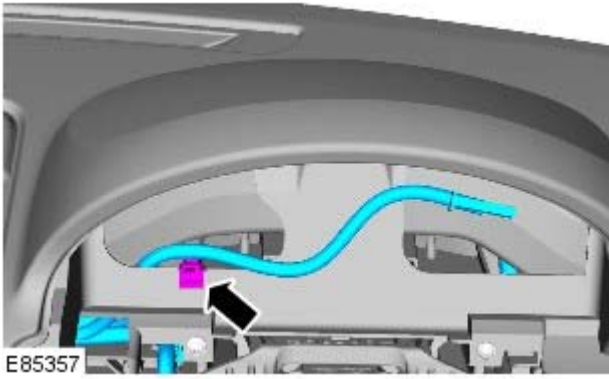
6. Remove the clockspring.

Refer to: [Clockspring](#) (501-20B Supplemental Restraint System, Removal and Installation).

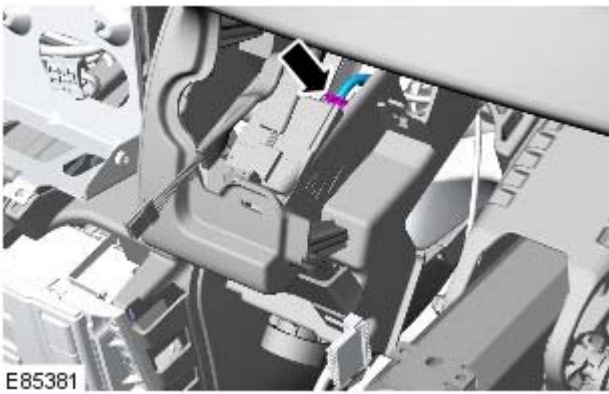
7. Remove the instrument cluster.

Refer to: [Instrument Cluster](#) (413-01 Instrument Cluster, Removal and Installation).

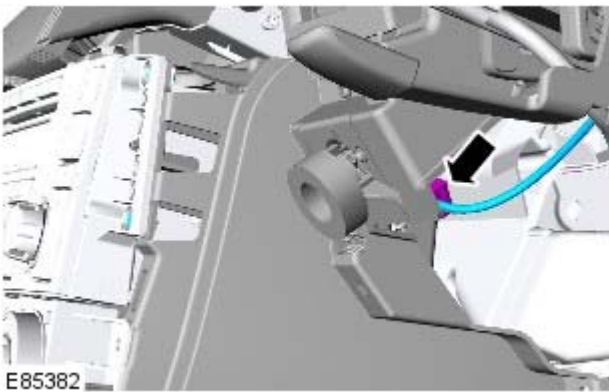
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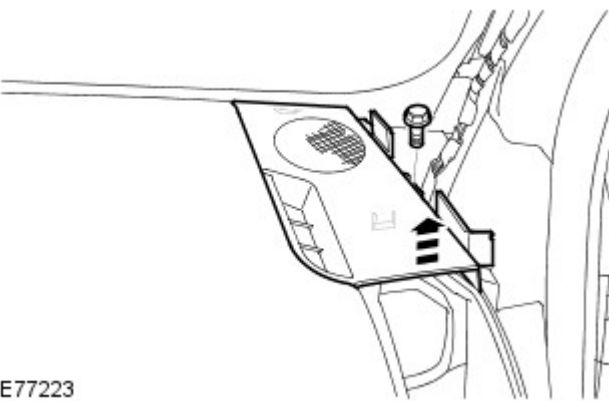
9. Disconnect the keyless start module electrical connector.



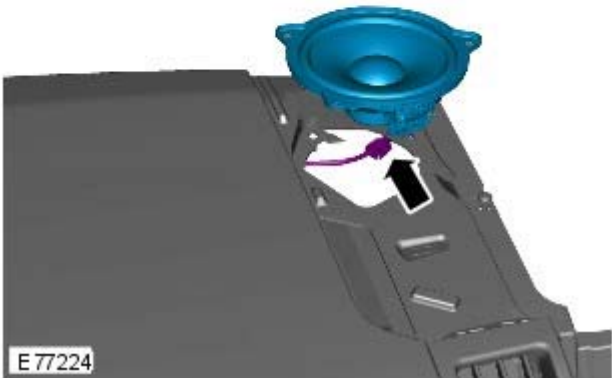
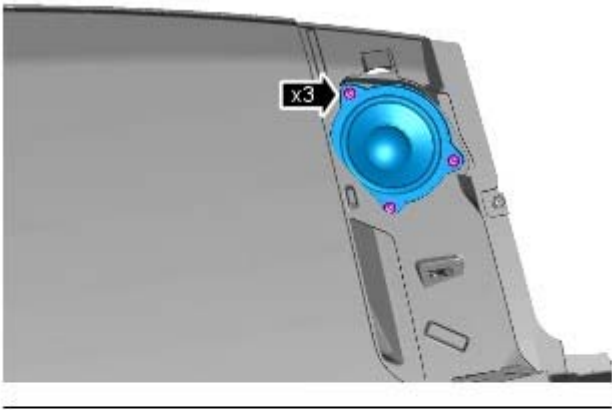
10. Disconnect the in-vehicle temperature sensor.



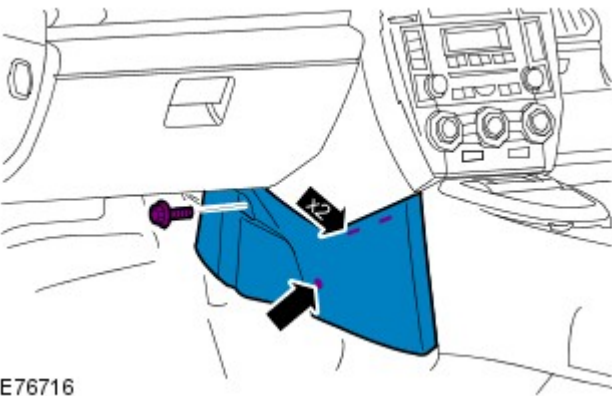
11. Remove both upper trim panels.



12. Remove both instrument panel speakers.



13. Remove both floor console extensions.



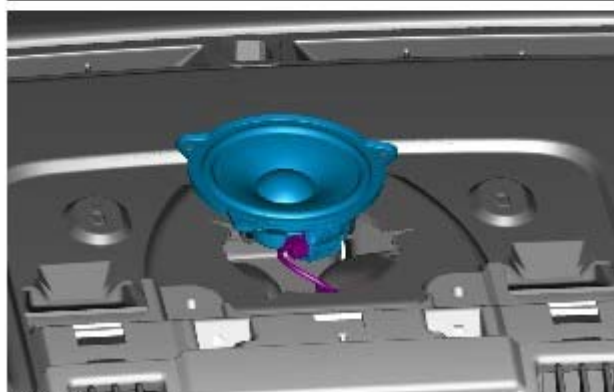
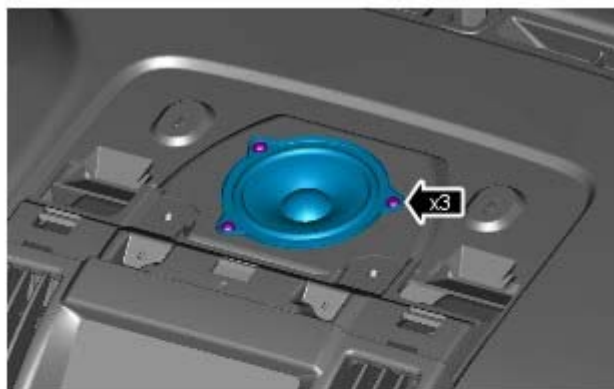
14. Remove the floor console.

Refer to: [Floor Console](#) (501-12 Instrument Panel and Console, Removal and Installation).

15. Remove the video display.

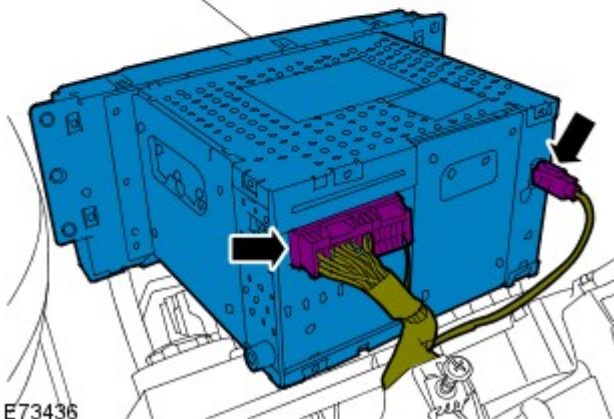
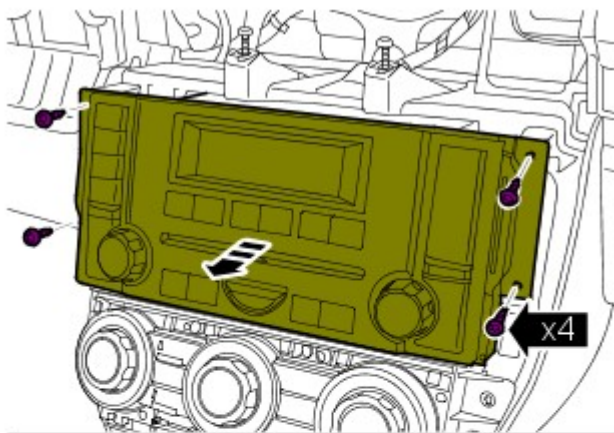
Refer to: [Video Display](#) (415-01 Information and Entertainment System, Removal and Installation).

16. Remove the center speaker.

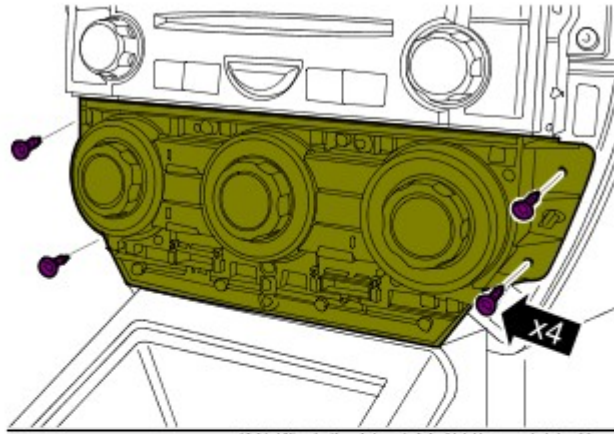


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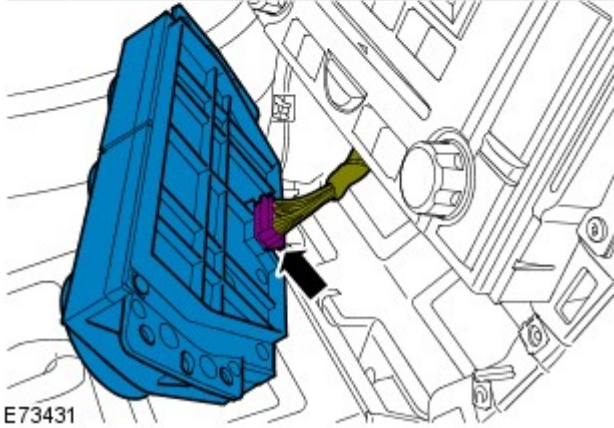
17. Remove the audio unit.



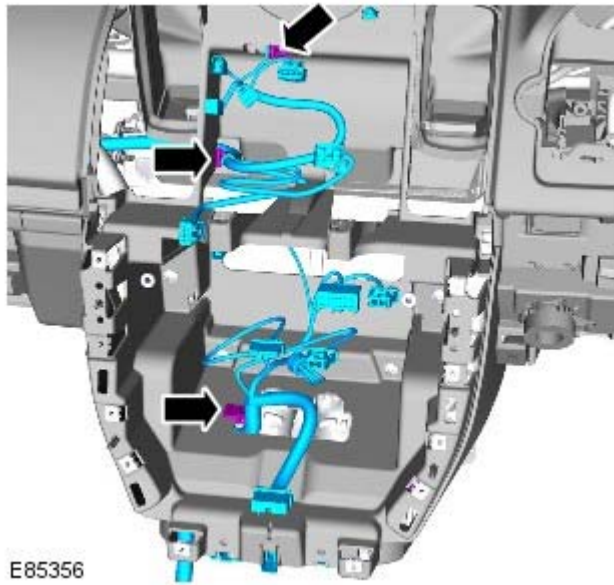
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18. Remove the climate control assembly.

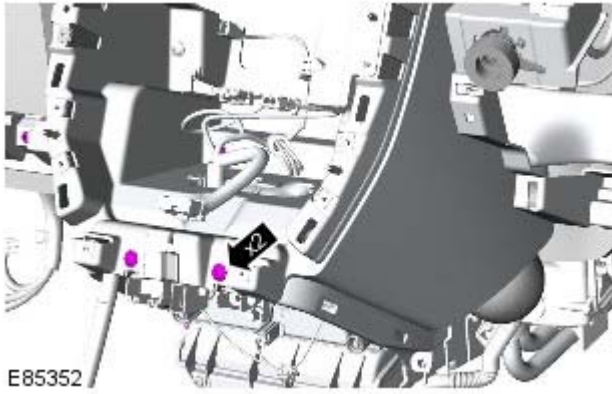


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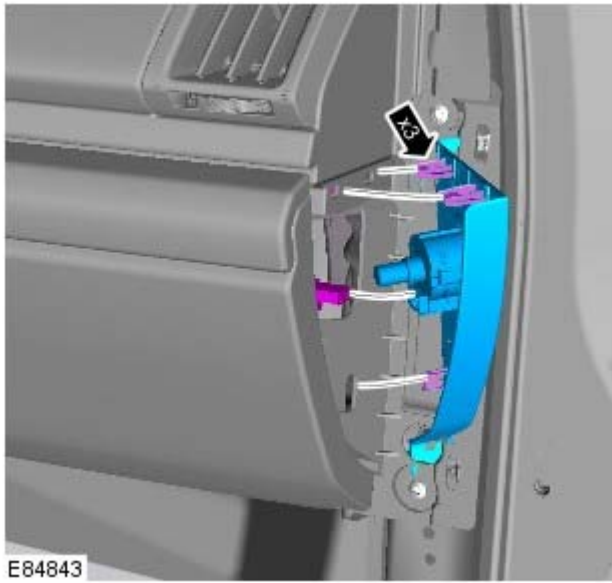


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19.



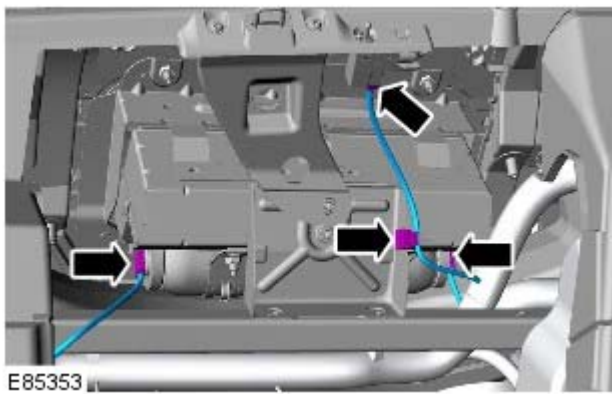
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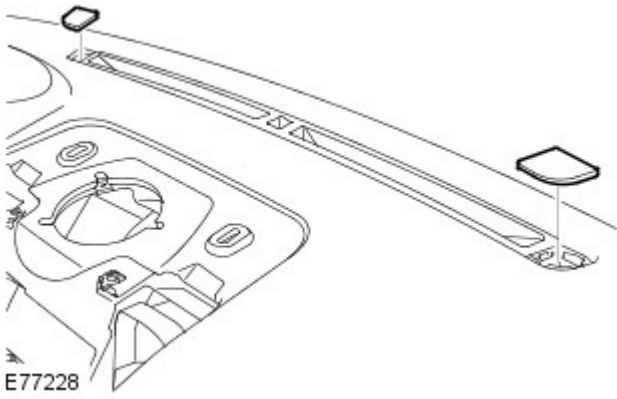
21. Remove the passenger side instrument panel end trim panel.

22. Remove the glove compartment.

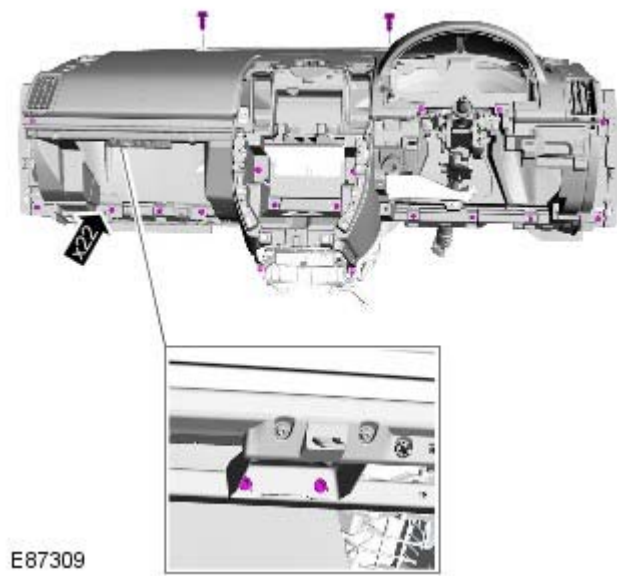
Refer to: [Glove Compartment](#) (501-12 Instrument Panel and Console, Removal and Installation).




23.

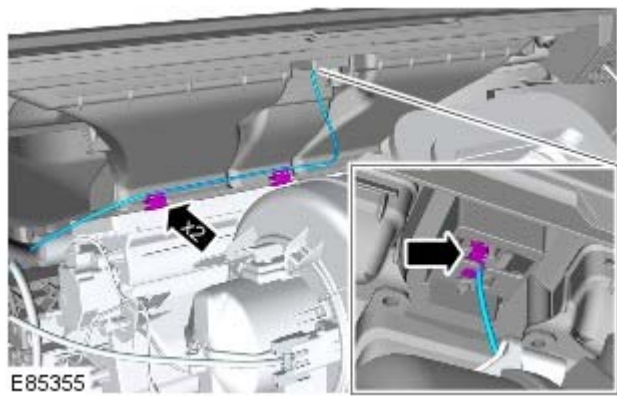


24. Remove the windshield defroster outer finishers.

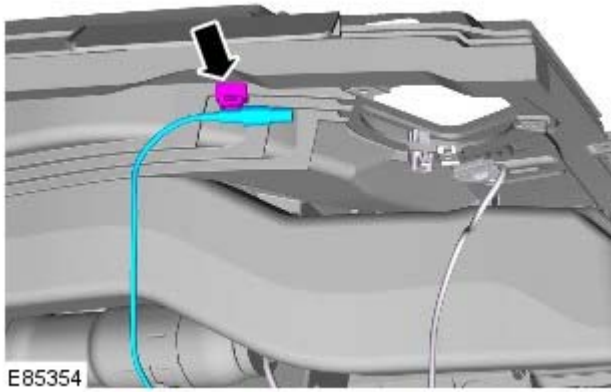


25.  **CAUTION:** Protect the surrounding trim to avoid damage.

With assistance, carefully release the instrument panel upper section.

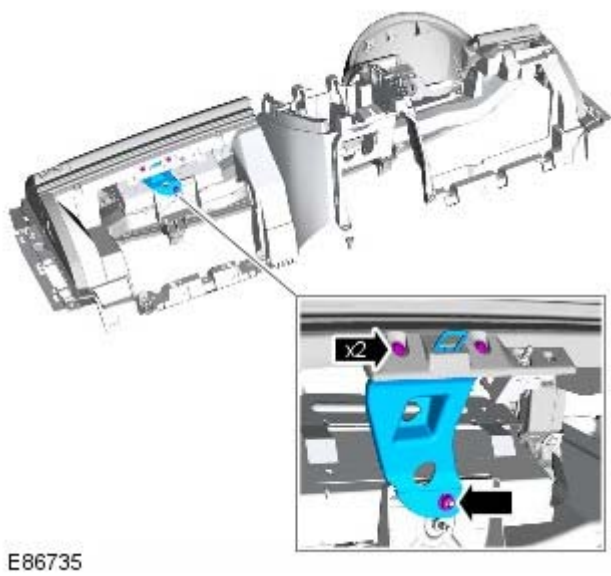


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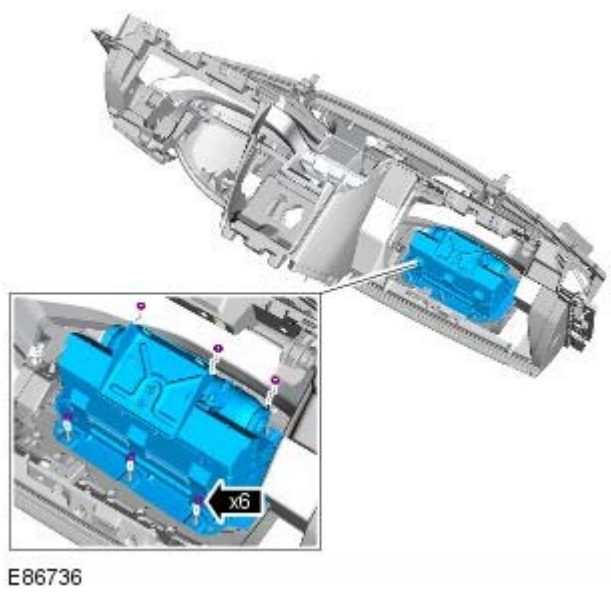


27.

28. With assistance, remove the instrument panel upper section.

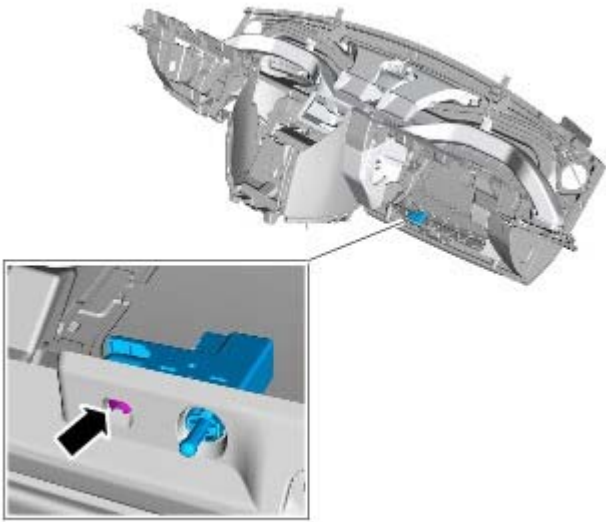


29. **NOTE:** Do not disassemble further if the component is removed for access only.



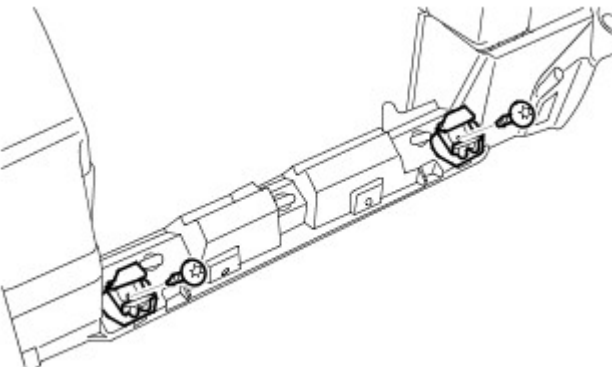
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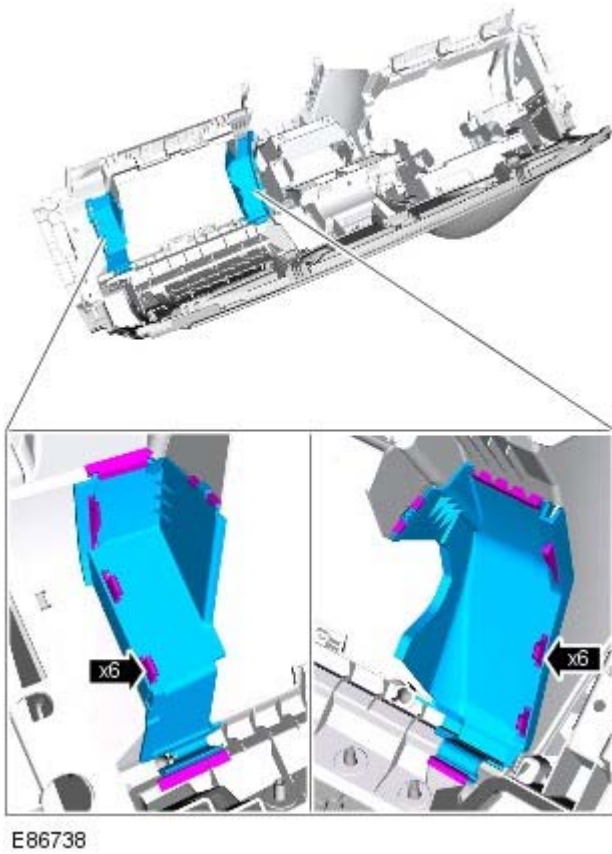
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32. Remove the glove compartment lid hinges.

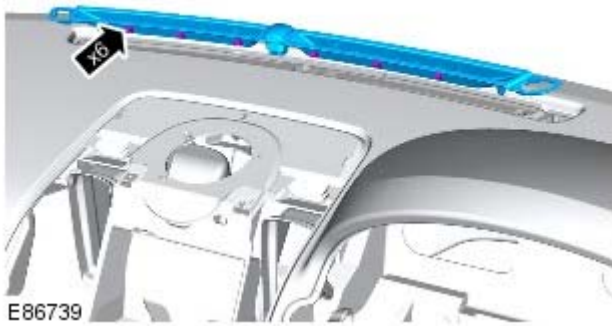


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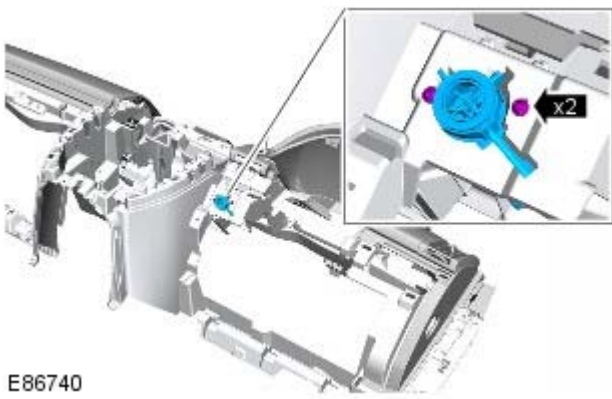
33. Remove the glove compartment support panels.

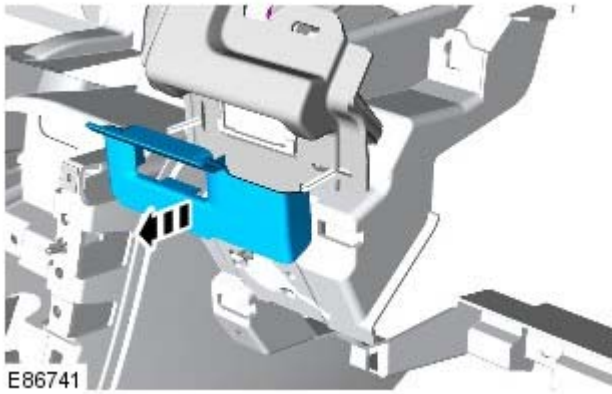


34. Remove the windshield defroster trim panel.

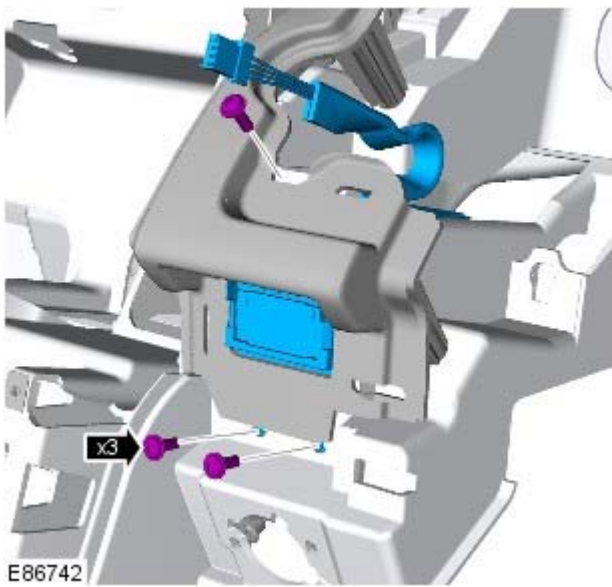


35. Remove the in-vehicle temperature sensor.

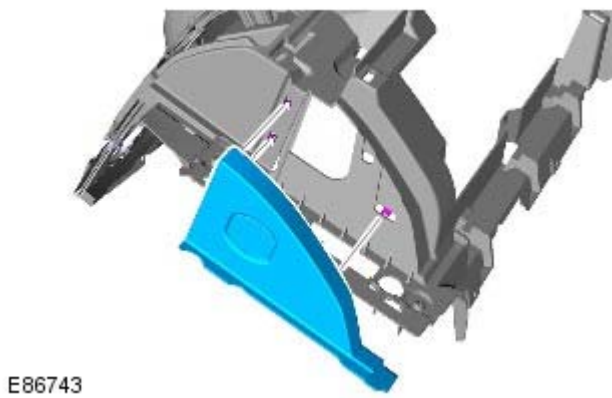




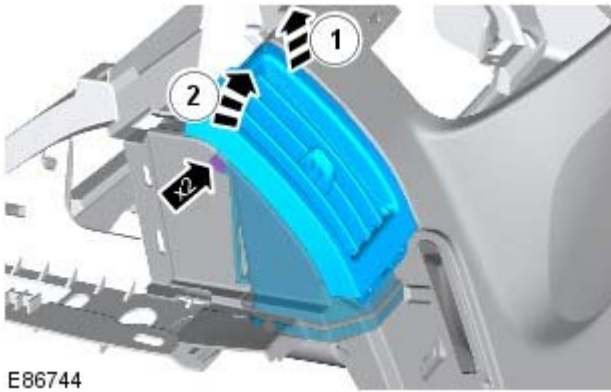
36. Remove the keyless start control module trim cover.



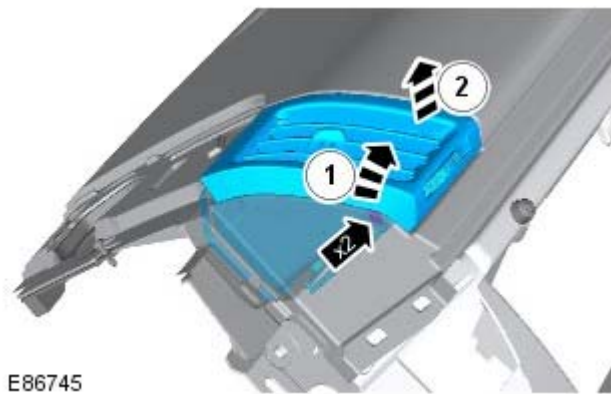
37. Remove the keyless start control module.



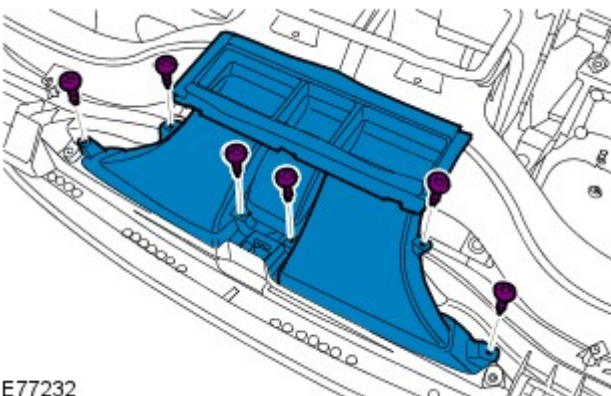
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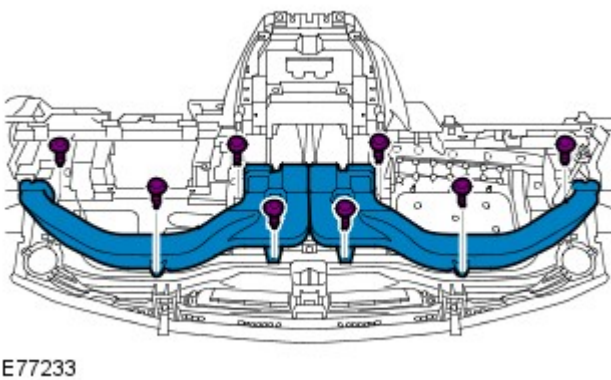
39. Remove the driver side register.



40. Remove the passenger side register.



41. Remove the windshield defroster duct.



42. Remove the register ducting.

43. Remove the remaining clips.

Installation

1. Install the clips.
2. Install the register ducting.
3. Install the windshield defroster duct.
4. Install the passenger side register.
5. Install the driver side register.
6. Install the driver side instrument panel end trim panel.
7. Install the keyless start control module.
8. Install the keyless start control module trim cover.
9. Install the in-vehicle temperature sensor.
10. Install the windshield defroster trim panel.
11. Install the glove compartment support panels.
12. Install the glove compartment lid hinges.
13. Install the glove compartment lamp.
14. Install the passenger air bag module.

Torque: 10 Nm

15. Install the glove compartment striker reinforcement panel.
16. With assistance, install the instrument panel upper section.
17. Secure the wiring harness clip to the passenger side of the instrument panel upper section.
18. Secure the 2 wiring harness clips to the windshield defroster duct and connect the sunload sensor.
19. With assistance, secure the instrument panel upper section.
20. Install the windshield defroster outer finishers.
21. Connect the passenger air bag module electrical connectors.
22. Connect the glove compartment lamp electrical connector.
23. Secure the passenger air bag module and glove compartment lamp wiring harness.

24. Install the glove compartment.

Refer to: [Glove Compartment](#) (501-12 Instrument Panel and Console, Removal and Installation).

25. Install the passenger side instrument panel end trim panel.

26. Secure the wiring harness support bracket.

27. Secure the wiring harness to the center of the instrument panel upper section.

28. Install the climate control assembly.

29. Install the audio unit.

30. Install the center speaker.

31. Install the video display.

Refer to: [Video Display](#) (415-01 Information and Entertainment System, Removal and Installation).

32. Install the floor console.

Refer to: [Floor Console](#) (501-12 Instrument Panel and Console, Removal and Installation).

33. Install the floor console extensions.

34. Install both instrument panel speakers.

35. Install both upper trim panels.

36. Connect the in-vehicle temperature sensor electrical connector.

37. Connect the keyless start module electrical connector.

38. Secure the instrument cluster wiring harness clip.

39. Install the instrument cluster.

Refer to: [Instrument Cluster](#) (413-01 Instrument Cluster, Removal and Installation).

40. Install the clockspring.

Refer to: [Clockspring](#) (501-20B Supplemental Restraint System, Removal and Installation).

41. Install both cowl side trim panels.

Refer to: [Cowl Side Trim Panel](#) (501-05 Interior Trim and

Ornamentation, Removal and Installation).

42. Secure both scuff plate trim panels.

43. Install the A-pillar center trim panels.

44. Install both A-pillar upper trim panels.

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

45. Connect the battery ground cable.

Refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).

46. Return the steering column to its original position.

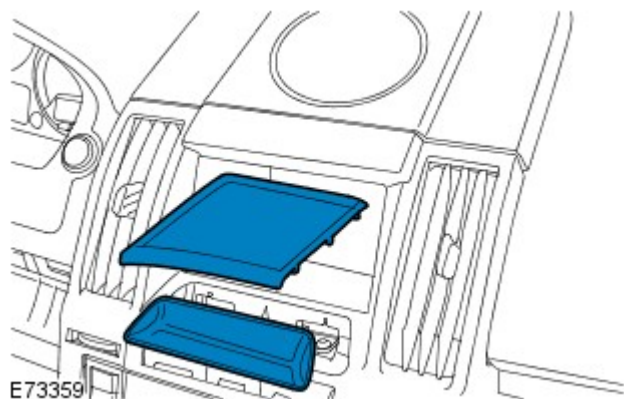
Instrument Panel and Console - Instrument Panel Console

Removal and Installation

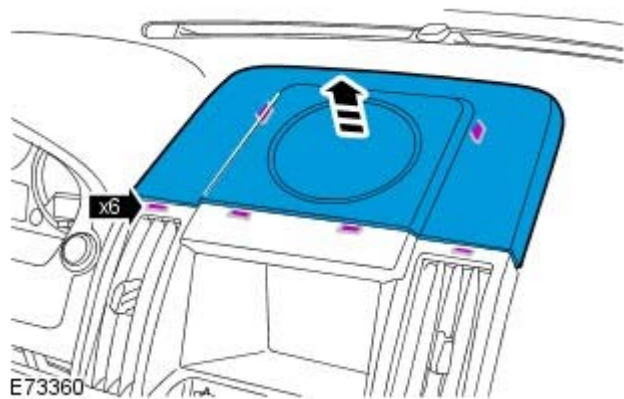
Removal

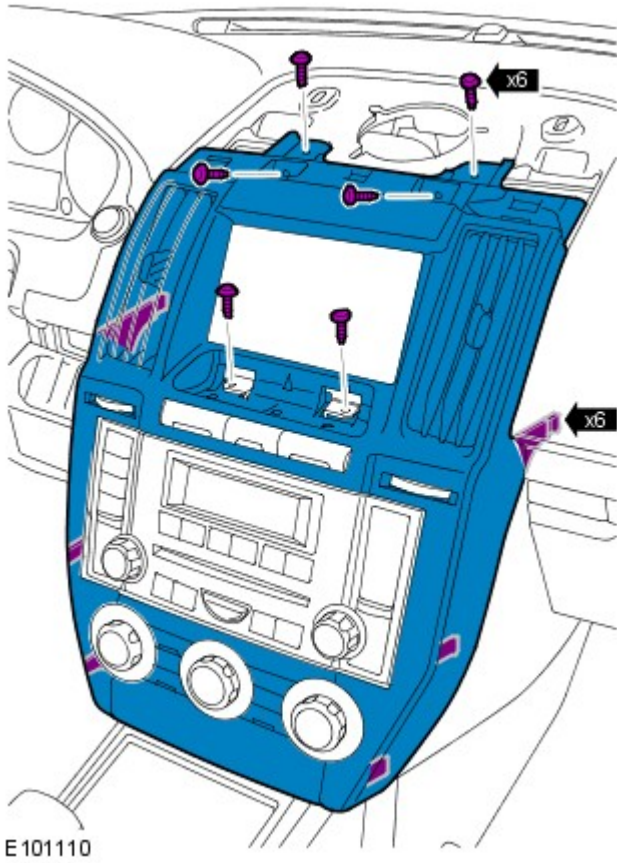
NOTE: Removal steps in this procedure may contain installation details.


1. If equipped.



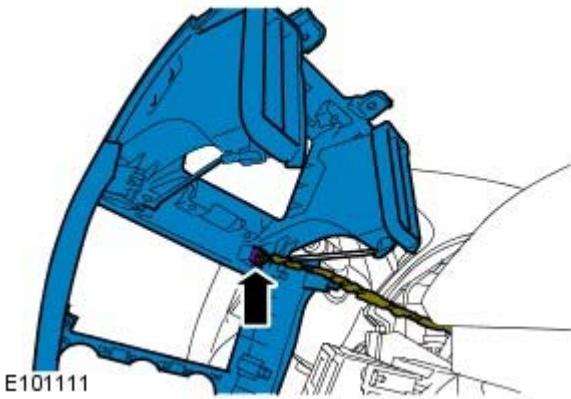
- 2.





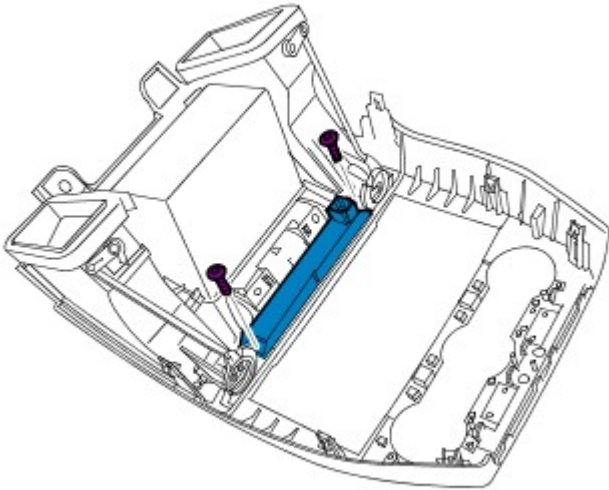
3.  **CAUTION:** Protect the surrounding trim from damage when changing the component.

Torque: 3 Nm



- 4.

5. NOTE: Do not disassemble further if the component is removed for access only.



E73363

Installation

1. To install, reverse the removal procedure.

Instrument Panel and Console - Floor Console

Removal and Installation

Removal

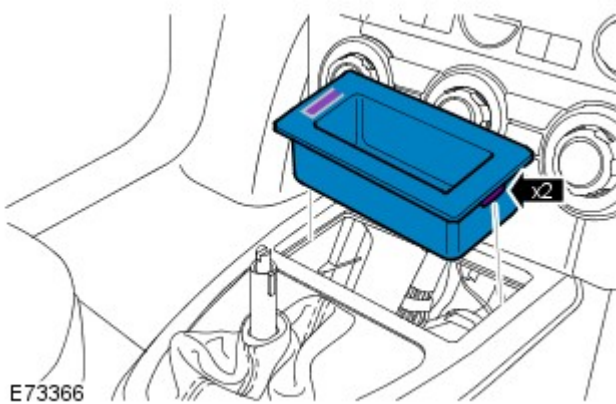
1. Remove the audio control switches.

Refer to: [Rear Auxiliary Audio Controls](#) (415-01 Information and Entertainment System, Removal and Installation).

2. Remove the gear selector knob.

Refer to: Selector Lever Knob (307-05 Automatic Transmission/Transaxle External Controls, Removal and Installation).

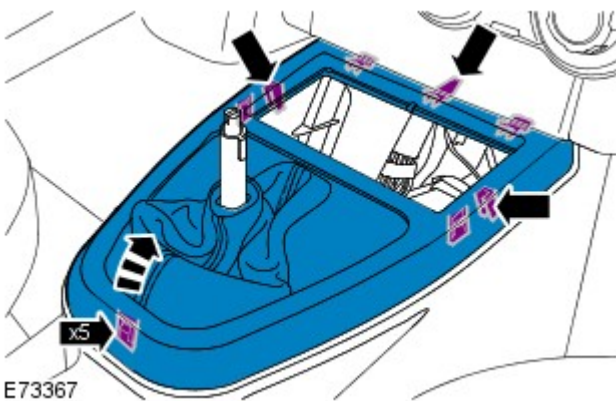
Refer to: [Gearshift Lever Knob](#) (308-06 Manual Transmission/Transaxle External Controls, Removal and Installation).



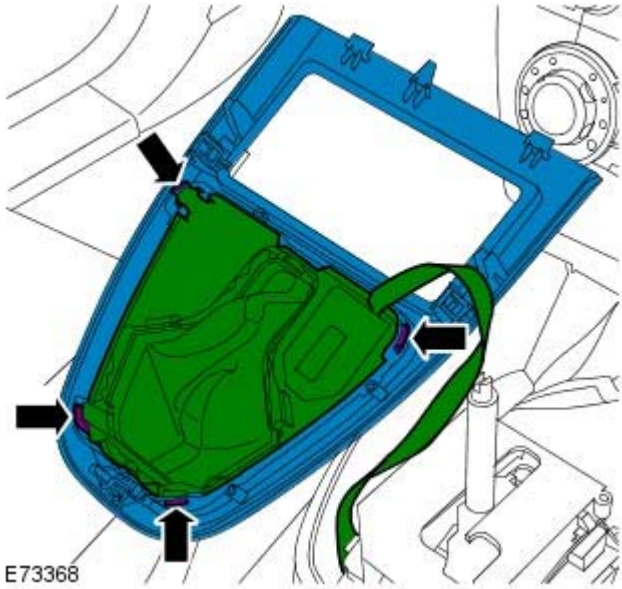
3. **Vehicles without terrain response:** Remove the stowage compartment tray.

4. **Vehicles with terrain response:** Remove the ride and handling optimization switch.

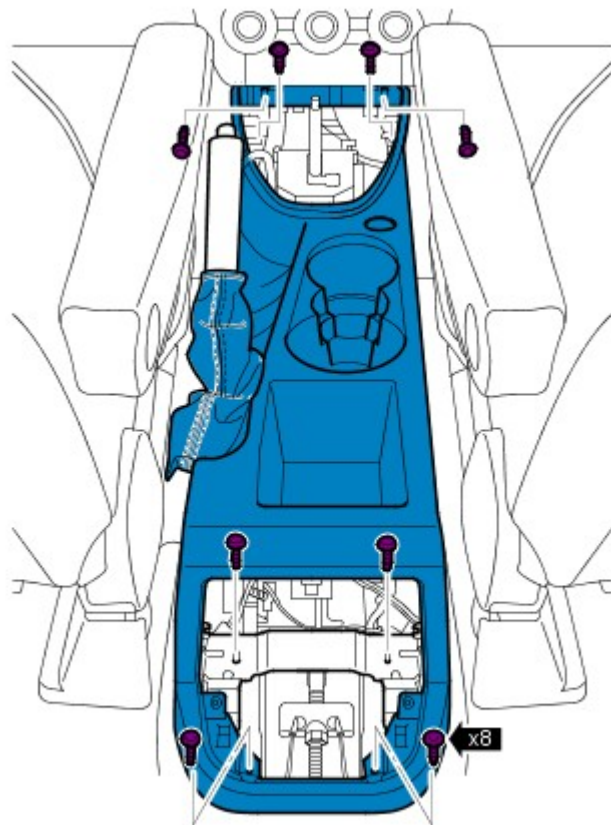
Refer to: [Ride and Handling Optimization Switch](#) (204-06 Ride and Handling Optimization, Removal and Installation).



5. Release the gear selector cover.

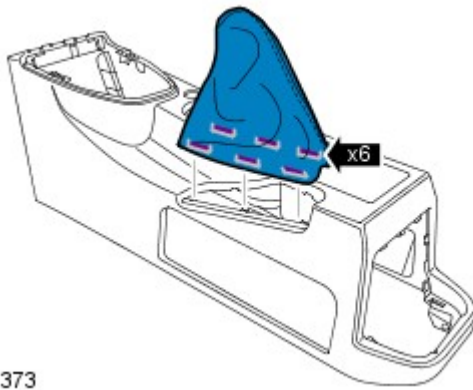


6. Remove the gear selector cover.



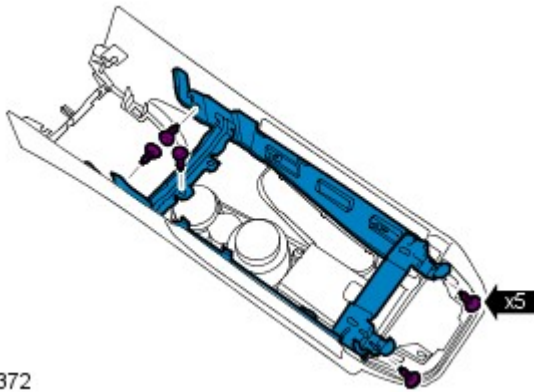
7.  **CAUTION:** Protect the surrounding trim to avoid damage.

- Apply the parking brake control to it's highest possible position.
- Disconnect the auxiliary input socket electrical connector.
- Remove the 8 screws.
- Remove the floor console.



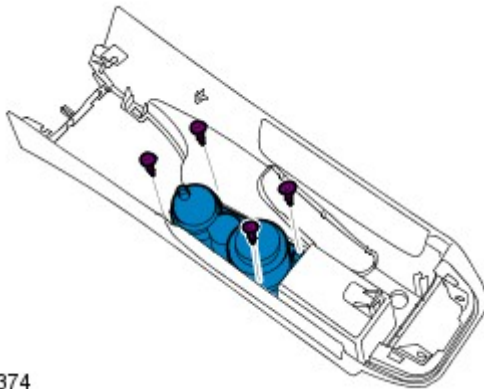
E73373

8. NOTE: Do not disassemble further if the component is removed for access only.



E73372

- 9.



E73374

- 10.

Installation

1. Install the cup holder.
2. Install the floor console bracket.
3. Install the parking brake control gaiter.
4. Install the floor console.
5. Install the gear selector cover.
6. Secure the gear selector cover.

7. **Vehicles with terrain response:** Install the ride and handling optimization switch.

Refer to: [Ride and Handling Optimization Switch](#) (204-06 Ride and Handling Optimization, Removal and Installation).

8. **Vehicles without terrain response:** Install the stowage compartment tray.

9. Install the gear selector knob.

Refer to: Selector Lever Knob (307-05 Automatic Transmission/Transaxle External Controls, Removal and Installation).

Refer to: [Gearshift Lever Knob](#) (308-06 Manual Transmission/Transaxle External Controls, Removal and Installation).

10. Install the audio control switches

Refer to: [Rear Auxiliary Audio Controls](#) (415-01 Information and Entertainment System, Removal and Installation).

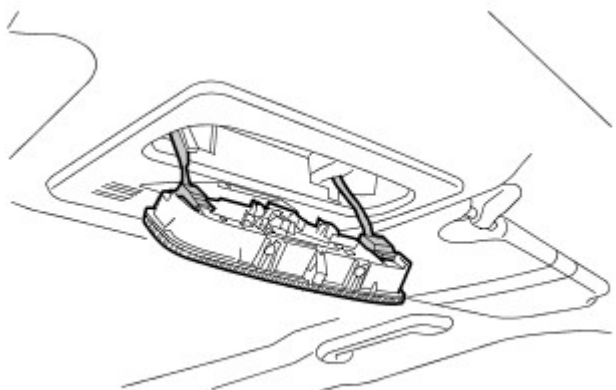
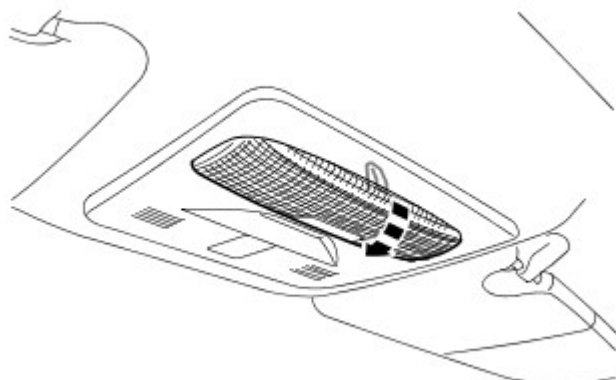
Published: 11-May-2011

Instrument Panel and Console - Overhead Console

Removal and Installation

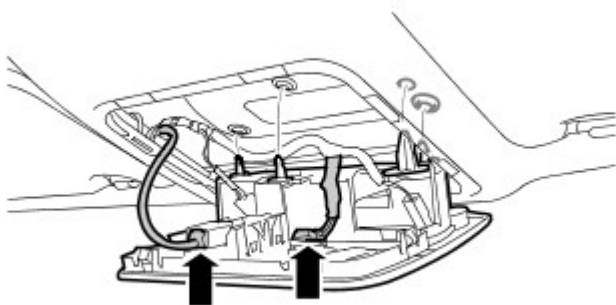
Removal

1.

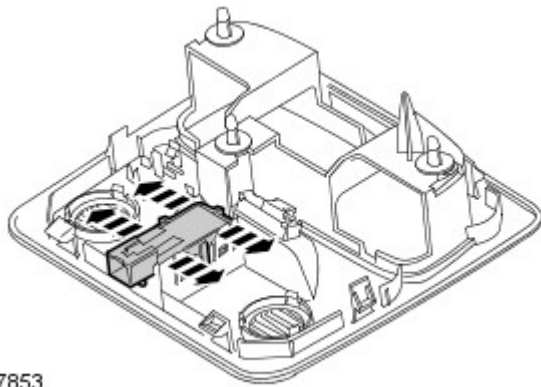


E77851

2.

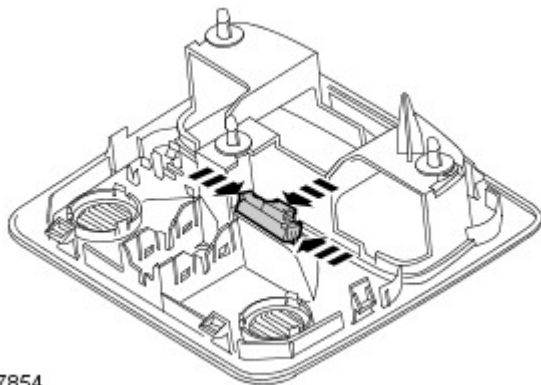


E77852



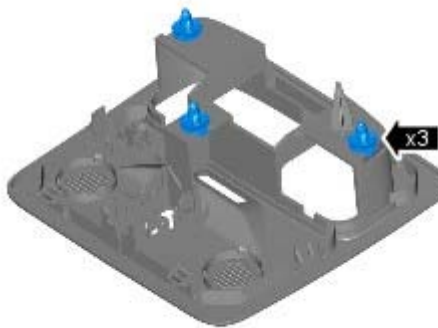
E77853

3. NOTE: Do not disassemble further if the component is removed for access only.



E77854

4. Remove the passenger air bag deactivation warning lamp.



E77855

- 5.

Installation

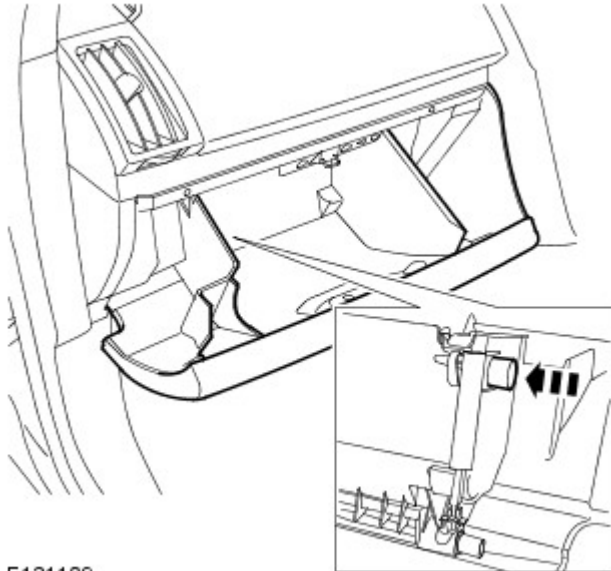
1. To install, reverse the removal procedure.

Instrument Panel and Console - Glove Compartment


Removal and Installation

Removal

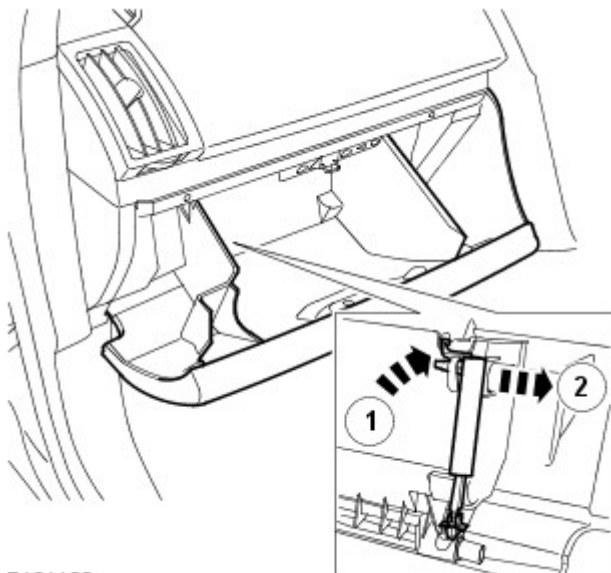
1. Position the front seat fully rearwards.
2. Open the glove compartment to the service condition.




E121109

3.  **CAUTION:** Make sure that excessive force is not used to release the glove compartment. Failure to follow these instructions may result in damage to the vehicle.

Release the glove compartment.



E121108

4.  **CAUTION:** Make sure that excessive force is not used to release the glove compartment. Failure to follow these instructions may result in damage to the vehicle.

Release the glove compartment damper.

5. Remove the glove compartment.

Installation

1. To install, reverse the removal procedure.