

PUBLISHED: 08-NOV-2013
2005.0 DISCOVERY 3, 308-07B


TRANSFER CASE

TRANSFER CASE REAR OUTPUT SEAL

[G1706991]


REMOVAL AND INSTALLATION

SPECIAL TOOL(S)



204-525-1
Replacer, Drive Flange

E159758



205-726

205-726
Remover/Installer, Wheel Hub Bearing

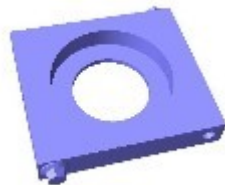
E87692

308-637

E55697

308-637

Installer



E158795

JLR-308-927

Support Tool, Transfer Case



E158797

JLR-308-931

Remover, Transfer Case Flange

REMOVAL

NOTE:

Some variation in the illustrations may occur, but the essential information is always correct.

1.

WARNING:

Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

2.

Refer to: Transfer Case Draining and Filling (308-07 Transfer Case, General Procedures).

3.

Refer to: Transfer Case - TDV6 2.7L Diesel (308-07 Transfer Case, Removal).

Refer to: Transfer Case - V6 4.0L Petrol (308-07 Transfer Case, Removal).

Refer to: Transfer Case - V8 4.4L Petrol (308-07B, Removal).

4.

With assistance, secure the transfer case with its transmission mating face down a flat surface.

5.



E159189

6.

WARNING:

Eye protection must be worn.

CAUTION:

Make sure the bolt holes are clean and free of swarf.



7.

WARNING:

Eye protection must be worn.

CAUTION:

Make sure the bolt holes are clean and free of swarf.

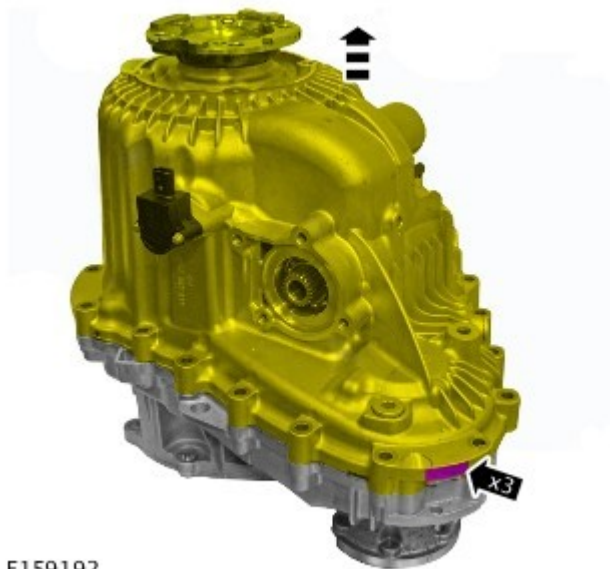


E159191

8.

CAUTION:

Care must be taken to avoid damage to the mating surfaces.



E159192

Using a soft faced mallet, release the rear casing.

9.



E159215

10.



E159213

Locate the magnetic filter. The filter may have dropped into the front housing in the previous step.

11.

CAUTION:

Make sure that the mating faces are clean and free of foreign material.

Remove the sealant from the transfer case mating faces.

12.



Remove the spacer.

13.



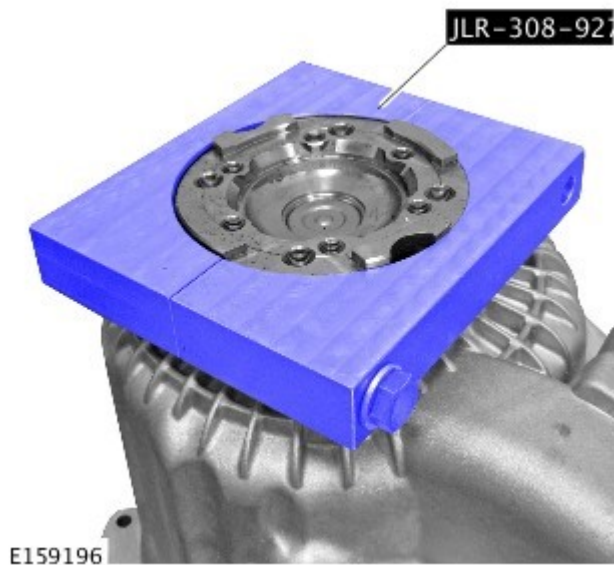
14.

NOTE:

Remove as an assembly.



15.

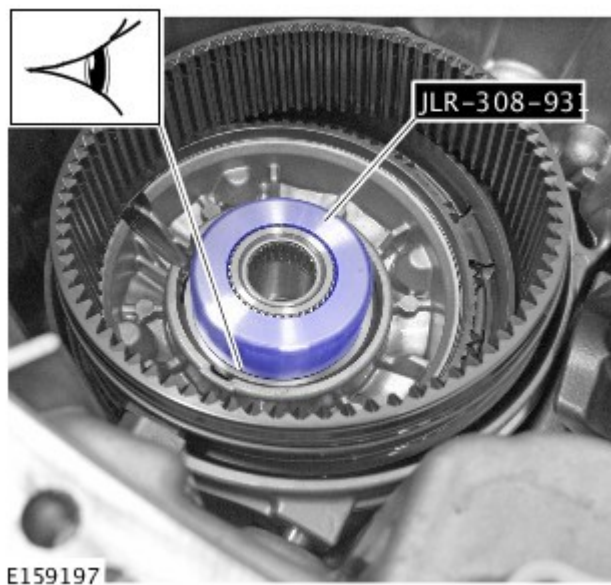


Special Tool(s): [JLR-308-927](#)

16.

CAUTION:

Make sure that the special tool is correctly located. This will make sure that the snap ring is fully compressed during the next step.



Special Tool(s): [JLR-308-931](#)

17.

CAUTIONS:

- Do not use excessive force whilst removing the flange assembly.
- Discard the snap ring.

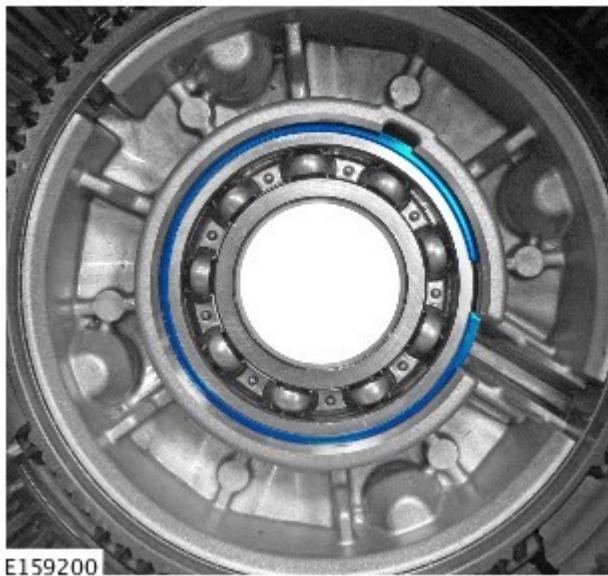


Special Tool(s): [JLR-308-931](#)

18.



19.



20.



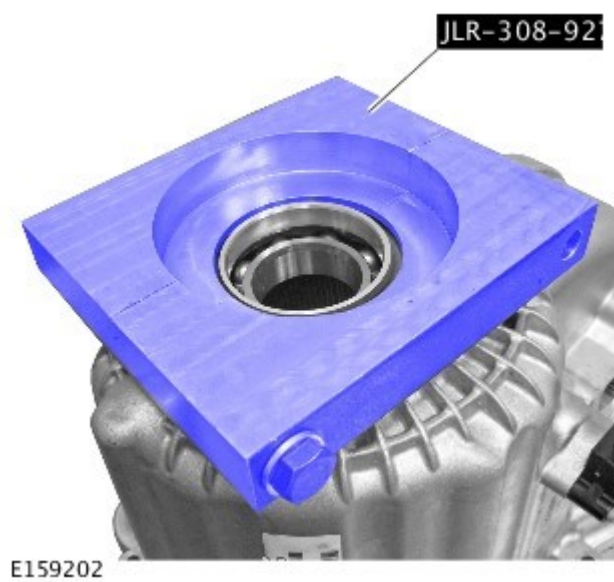
21. With assistance, release the transfer case from the flat surface.

INSTALLATION

CAUTION:

During the installation, make sure that all components are clean and free from foreign material.

1.



Position the special tool as shown, to support the transfer case during the next step.

Special Tool(s): [JLR-308-927](#)

2.

CAUTION:

The chamfer on the bearing inner track must face the seal.

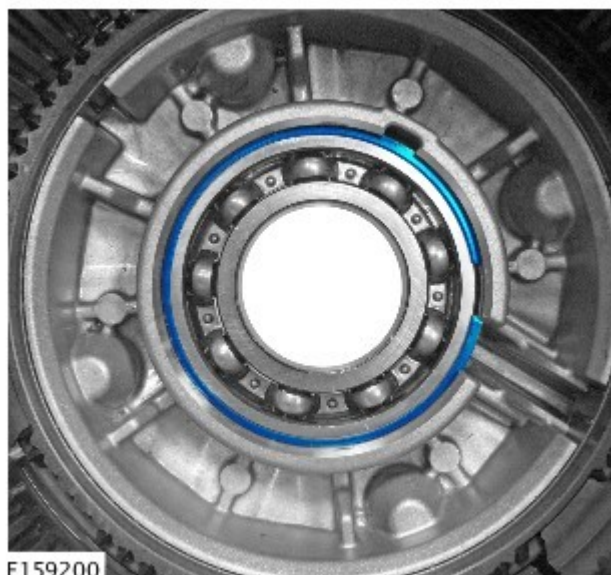


E159203

Install the bearing.

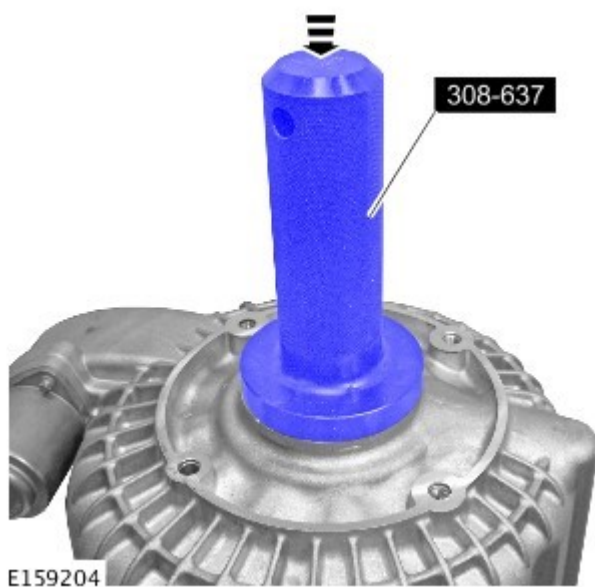
Special Tool(s): [205-726](#)

3.



E159200

4.



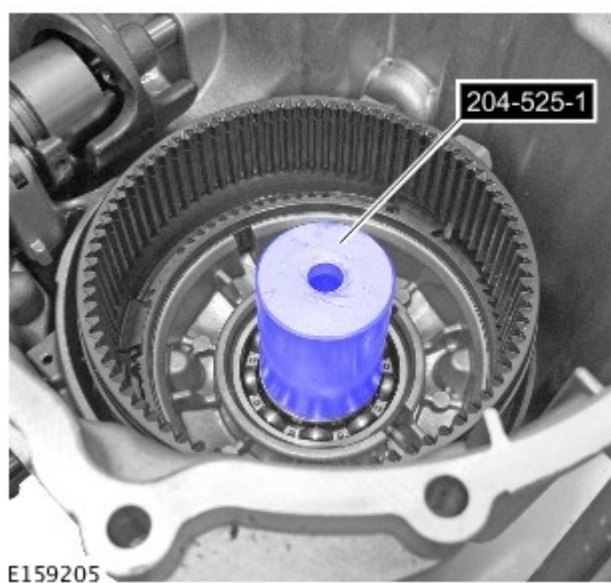
Install the seal.

Special Tool(s): [308-637](#)

5.

CAUTIONS:

- Centralise the snap ring in the snap ring groove before installing the output flange.
- Extreme care is necessary to make sure the snap ring enters the bearing squarely.
- Install a new snap ring.



Using the special tool and with assistance, install the drive flange.

Special Tool(s): [204-525-1](#)

6. With assistance, secure the rear half of the transfer case with it's rear face down on a flat surface.

7.



Install the spacer.

8.

NOTE:

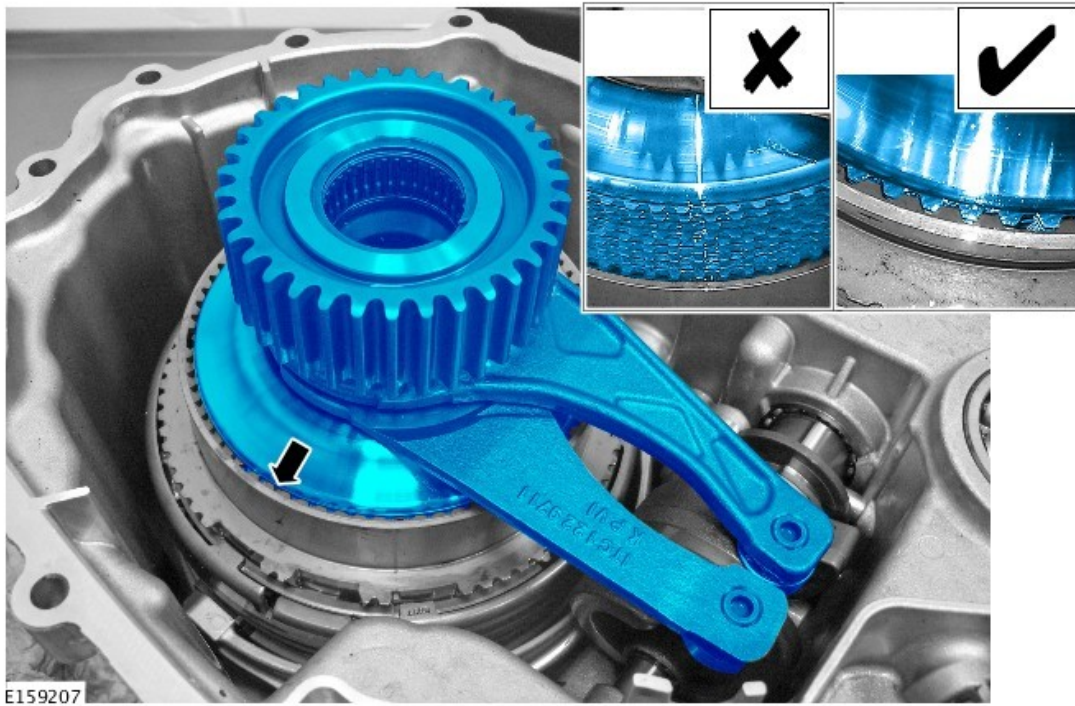
Rotate the differential to engage the splines.



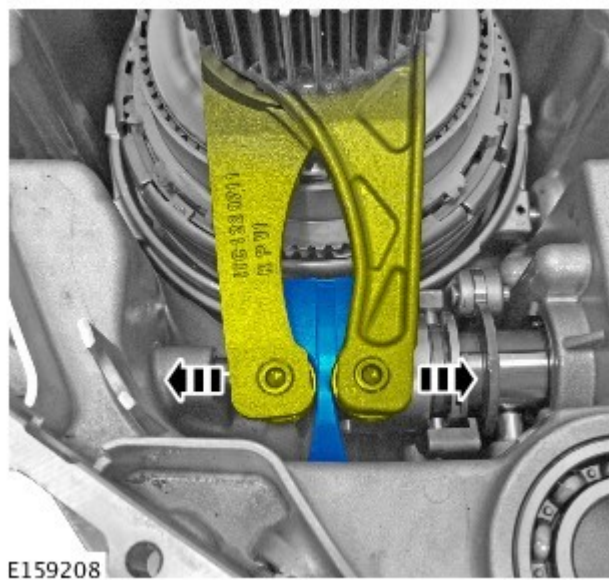
9.

NOTE:

Rotate the assembly to engage the clutch plates.



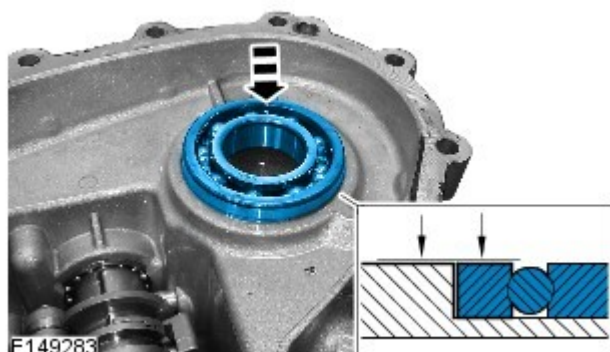
10.



11.

CAUTION:

Make sure that the front driveshaft gear bearing is fully seated before installing the chain and gear.



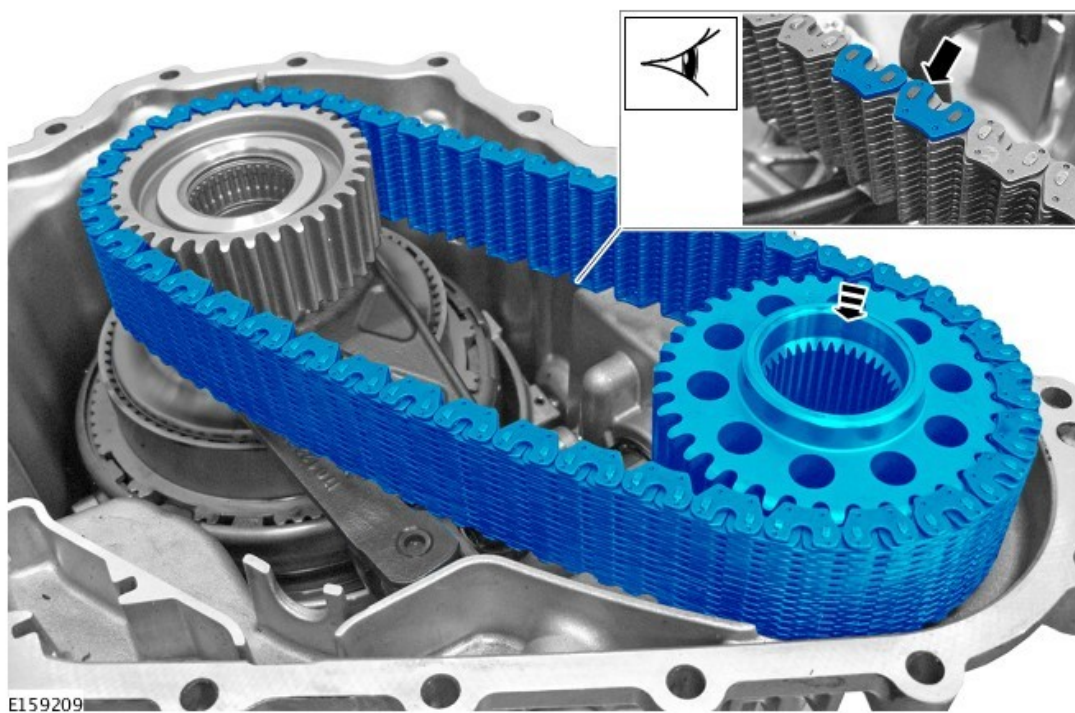
12.

CAUTION:

Make sure that the chain is installed with the dark links facing down.

NOTE:

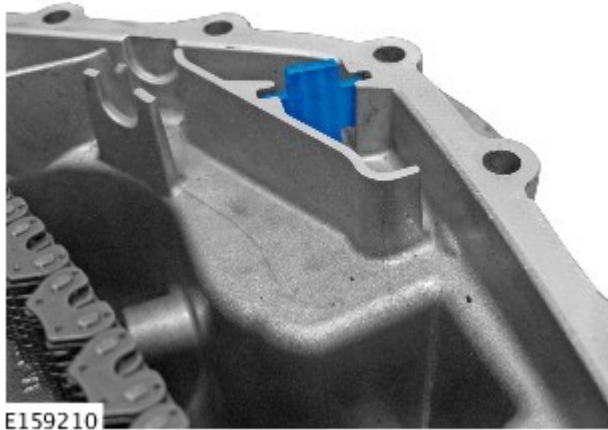
The relieved splined inner diameter of the sprocket must face up as shown.



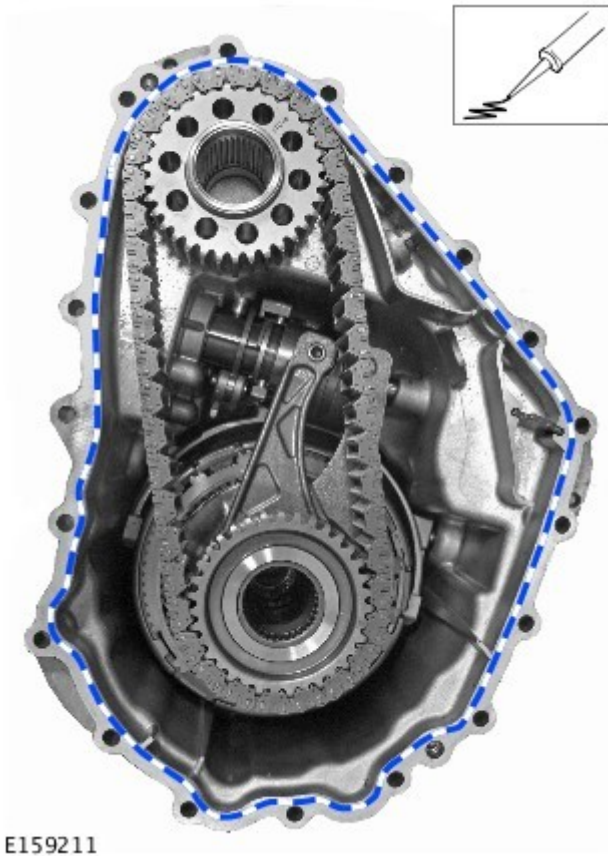
13.

CAUTION:

Make sure that the component is clean and free of foreign material .



14.

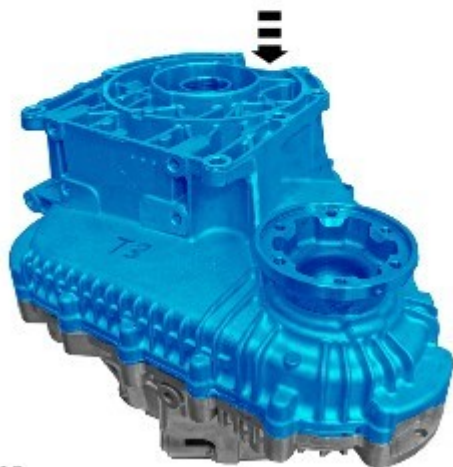
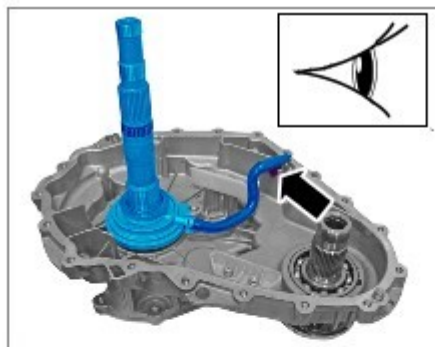


Apply a 2 mm bead of sealant to one surface of the transfer case mating face, as shown.

15.

CAUTIONS:

- Make sure that the input shaft spacer is located correctly.
- The input shaft and fluid pump assembly must be supported and held in place by hand, until it is located securely into the clutch assembly.



E159212

Install the front half of the transfer case.

16.

CAUTION:

Care must be taken when turning the transfer case over. The transfer case halves must not be allowed to separate.

With assistance, release the transfer case and secure with its transmission mating face down on a flat surface.

17.

CAUTION:

Only tighten the bolts finger-tight at this stage.



E159191

18.



E159409

Torque: 10Nm

19.



E159191

Torque: 35Nm

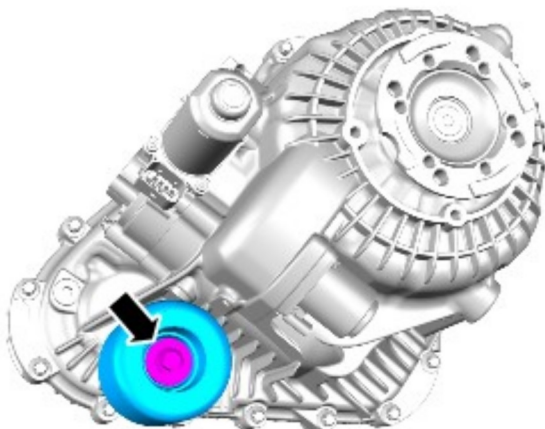
20.



E159190

Torque: 35Nm

21.

**E159189***Torque: 75Nm*

22. With assistance, release the transfer case from the flat surface.

23. Refer to: Transfer Case - TDV6 2.7L Diesel (308-07 Transfer Case, Installation).
Refer to: Transfer Case - V6 4.0L Petrol (308-07 Transfer Case, Installation).
Refer to: Transfer Case - V8 4.4L Petrol (308-07B, Installation).

24. Refer to: Transfer Case Draining and Filling (308-07 Transfer Case, General Procedures).

ZZF6ymF0MT8yMDZLTAxL7E0VDE40JM40JE1LjM1M1e7OTAuMjQxLj5LjE6MDITQxMQUFBMTG4QTQ4ODYxOA==