



WARNING:

Make sure that a new nut is installed.



Renew Part: [Output shaft flange nut](#) : .

Torque: **60 Nm**

Vehicles with petrol engine

1. Refer to: [Transmission Support Insulator - GTDi 2.0L Petrol/V6 N/A 3.0L Petrol/V6 S/C 3.0L Petrol /V8 N/A 5.0L Petrol/V8 S/C 5.0L Petrol](#) (307-01B Automatic Transmission/Transaxle - Vehicles With: 8HP70 8-Speed Automatic Transmission RWD, Removal and Installation).
2. Refer to: [Driveshaft - GTDi 2.0L Petrol/V6 S/C 3.0L Petrol /V8 N/A 5.0L Petrol/V8 S/C 5.0L Petrol, RWD](#) (205-01 Driveshaft, Removal and Installation).

Vehicles with diesel engine

1. Refer to: [Transmission Support Insulator - TDV6 3.0L Diesel](#) (307-01B Automatic Transmission/Transaxle - Vehicles With: 8HP70 8-Speed Automatic Transmission RWD, Removal and Installation).
2. Refer to: [Driveshaft - TDV6 3.0L Diesel , RWD](#) (205-01 Driveshaft, Removal and Installation).

All vehicles

1. Refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).

PUBLISHED: 02-AUG-2017
2015.0 XJ RANGE (X351), 307-01

AUTOMATIC TRANSMISSION/TRANSAXLE - VEHICLES WITH: 8HP70 8-SPEED AUTOMATIC
TRANSMISSION RWD

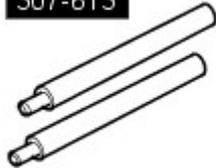
INPUT SHAFT SEAL (G1571595)

44.32.07	FRONT PUMP OIL SEAL - RENEW	3000 CC, TDV6	3.9	USED WITHINS
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SPECIAL TOOL(S)



307-613



E84067

307-613

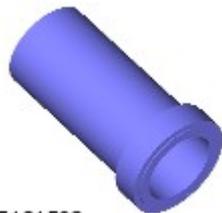
Holding Pins, Torque Converter



308-375

308-375

Remover, Input and Output Seal



E131592

JLR-308-845

Installer, Input Shaft Seal

PART(S)

STEP

REPLACE PART / RENEW PART

PART NAME

REMOVAL

 NOTE:

Removal steps in this procedure may contain installation details.

1. Refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).

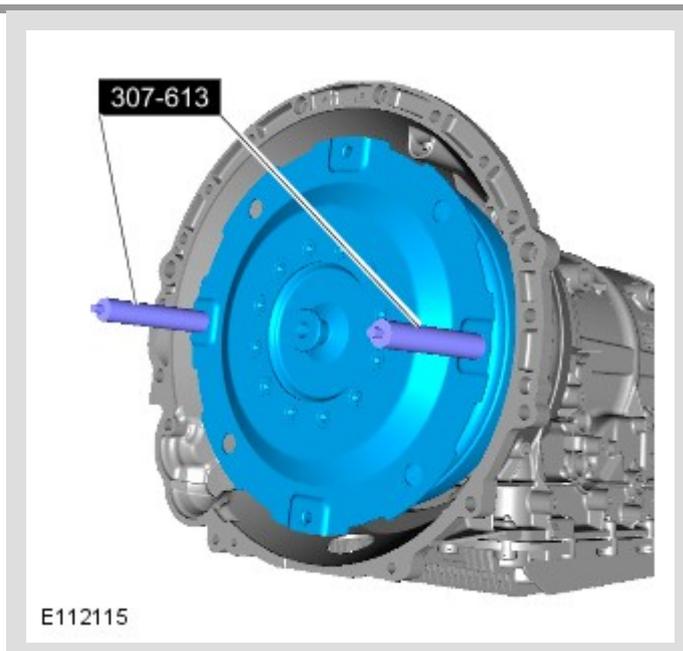
2.  WARNING:

Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

3. Refer to: [Transmission - TDV6 3.0L Diesel](#) (307-01B Automatic Transmission/Transaxle - Vehicles With: 8HP70 8-Speed Automatic Transmission RWD, Removal).
Refer to: [Transmission - V6 S/C 3.0L Petrol /V8 N/A 5.0L Petrol/V8 S/C 5.0L Petrol](#) (307-01B Automatic Transmission/Transaxle - Vehicles With: 8HP70 8-Speed Automatic Transmission RWD, Removal).
Refer to: [Transmission - GTDi 2.0L Petrol](#) (307-01B Automatic Transmission/Transaxle - Vehicles With: 8HP70 8-Speed Automatic Transmission RWD, Removal).

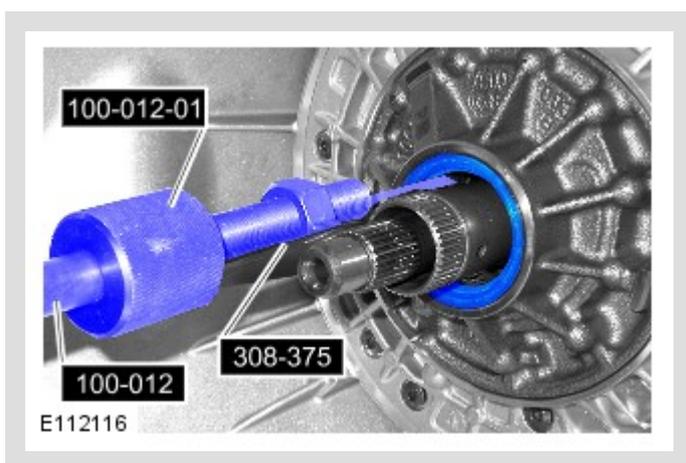
- 4.



Special Tool(s): [307-613](#)

5.  CAUTIONS:

- Take extra care not to damage the edges of the component.
- Discard the seal.



Special Tool(s): 100-012 , 100-012-01 , 308-375

INSTALLATION

1.

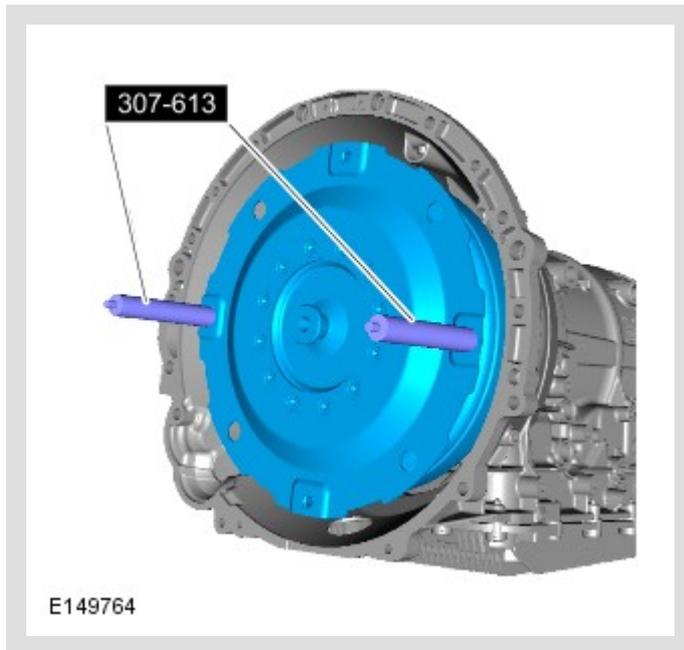
⚠ CAUTIONS:

- Install a new seal.
- Care must be taken to avoid damage to the seal register and running surface.



Special Tool(s): JLR-308-845

2.

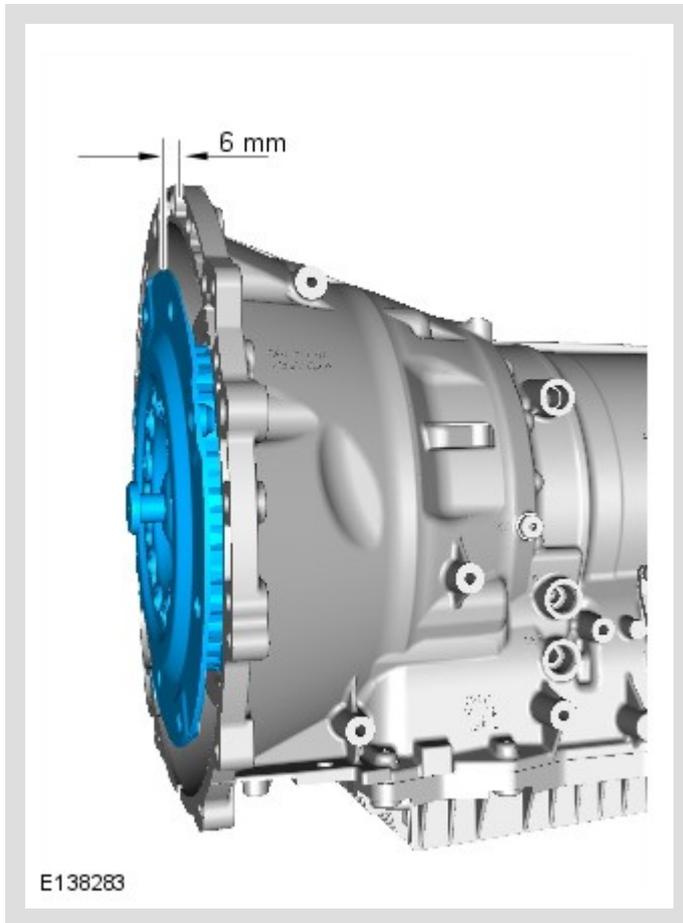


Special Tool(s): 307-613

3.

⚠ CAUTION:

Make sure the torque converter is fully located into the oil pump drive.



4. Refer to: [Transmission - TDV6 3.0L Diesel](#) (307-01B Automatic Transmission/Transaxle - Vehicles With: 8HP70 8-Speed Automatic Transmission RWD, Removal).
Refer to: [Transmission - V6 S/C 3.0L Petrol /V8 N/A 5.0L Petrol/V8 S/C 5.0L Petrol](#) (307-01B Automatic Transmission/Transaxle - Vehicles With: 8HP70 8-Speed Automatic Transmission RWD, Removal).
Refer to: [Transmission - GTDi 2.0L Petrol](#) (307-01B Automatic Transmission/Transaxle - Vehicles With: 8HP70 8-Speed Automatic Transmission RWD, Removal).
5. Refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).

PUBLISHED: 02-AUG-2017
2015.0 XJ RANGE (X351), 307-01

AUTOMATIC TRANSMISSION/TRANSAXLE - VEHICLES WITH: 8HP70 8-SPEED AUTOMATIC
TRANSMISSION RWD

SELECTOR SHAFT SEAL (G1580137)

SPECIAL TOOL(S)



E50766

307-509-1

307-509-1

Extractor,
Seal



E50767

307-509-2

307-509-2

Extractor,
Seal



E50768

307-509-3

307-509-3

Installer, Seal

PART(S)

STEP	REPLACE PART / RENEW PART	PART NAME	
Installation Step 1	Renew Part	Selector lever assembly	1

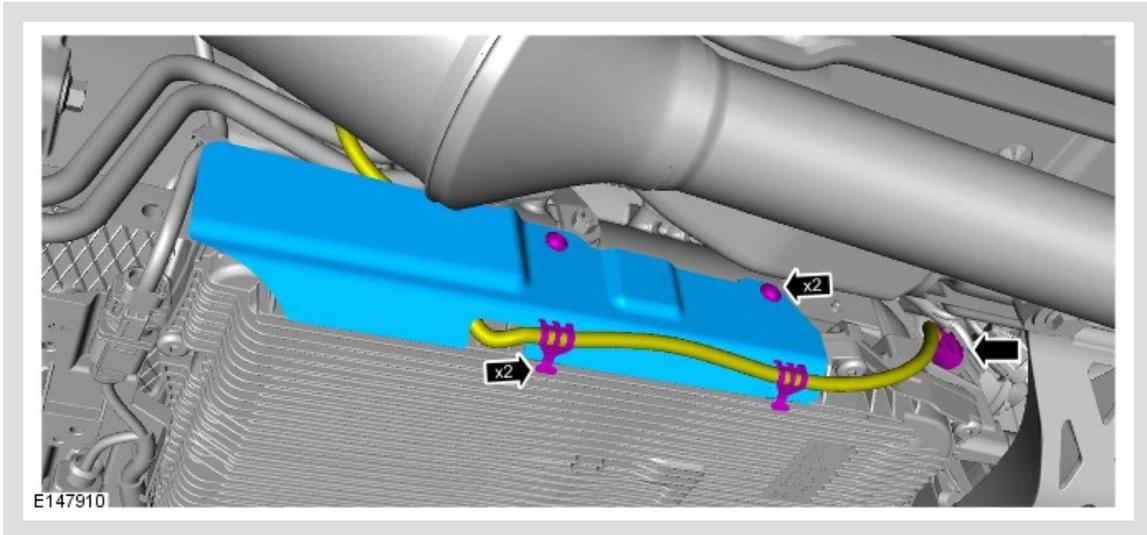
REMOVAL

NOTE:

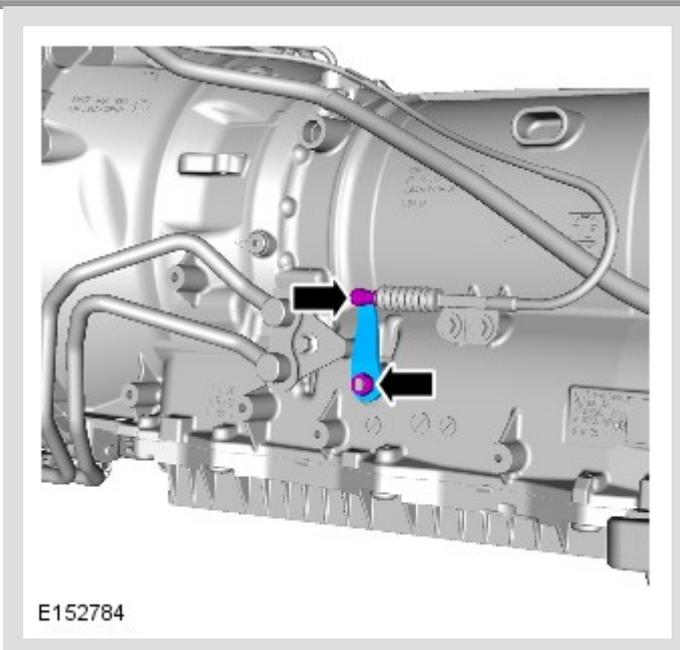
Some variation in the illustrations may occur, but the essential information is always correct.

1. Refer to: [Front Driveshaft - AWD \(205-01 Driveshaft, Removal and Installation\)](#).

2.



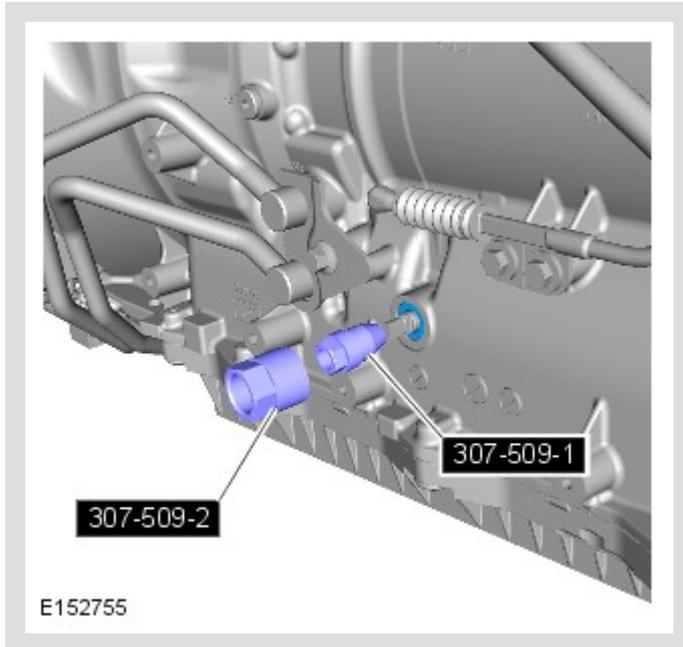
3.



4.

ⓘ CAUTIONS:

- Before the disconnection or removal of any components, make sure the area around joint faces and connections are clean. Plug any open connections to prevent contamination.
- Discard the seal.



Special Tool(s): [307-509-1](#) , [307-509-2](#)

INSTALLATION

1.

⚠ CAUTION:

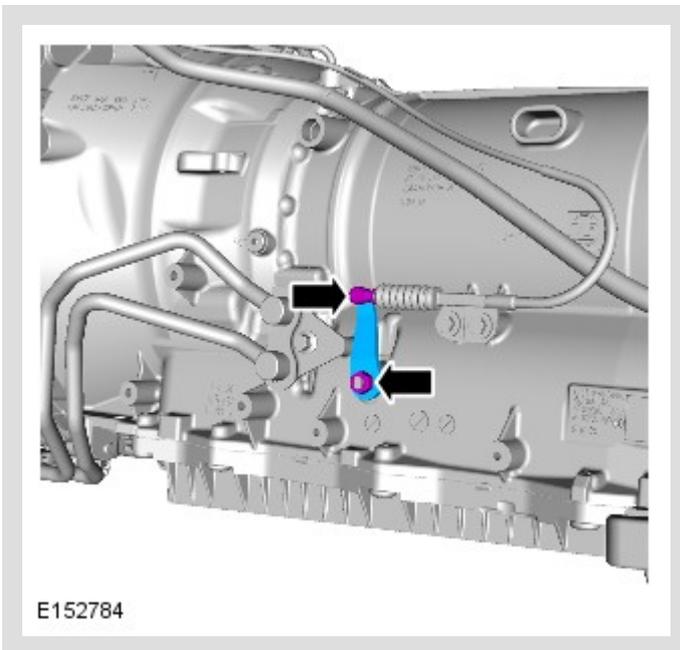
Install a new seal.



Special Tool(s): 307-509-3

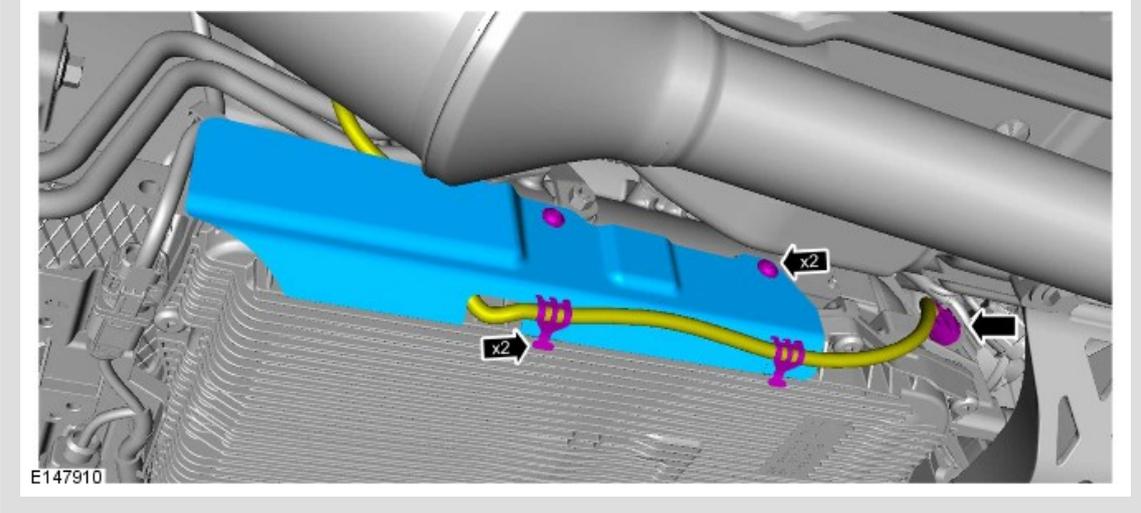
Renew Part: *Selector lever assembly* : 1 .

2.



▪ **Torque: 12 Nm**

3.



Torque: 9 Nm

4. Refer to: [Front Driveshaft - AWD \(205-01 Driveshaft, Removal and Installation\)](#).

PUBLISHED: 02-JUN-2017
2015.0 XJ RANGE (X351), 307-01

AUTOMATIC TRANSMISSION/TRANSAXLE - VEHICLES WITH: 8HP70 8-SPEED AUTOMATIC TRANSMISSION RWD

General

 CAUTION:

Use only Shell L12108 (ZF Lifeguard 8) Automatic transmission fluid. Use of any other fluids may result in a transmission malfunction or failure.

DESCRIPTION	INTERVALS
Normal maintenance	Filled for life.
Severe duty maintenance	Change the fluid at 48,000 km (30,000 miles) intervals.

Lubricants

 CAUTION:

Make sure the correct automatic transmission fluid is used as specified. Use of any other fluids may result in a transmission malfunction or failure.

DESCRIPTION	SPECIFICATION
Transmission fluid	Shell L12108 (ZF Lifeguard 8)
Sealant	WSS-M4G323-A6
Metal surface cleaner	WSW-M5B392-A
High temperature grease	Molecote FB180

Capacities

TRANSMISSION	LITERS	U.S. QUARTS
8HP70 RWD	8.5	9.0

Torque Specifications

 NOTE:

A refer to the procedure for correct torque sequence

DESCRIPTION	NM	LB-FT	LB-IN
-------------	----	-------	-------

Transmission retaining bolts	48	35	-
Transmission mount retaining bolts	45	33	-
Transmission fluid level plug	A	A	A
Transmission control module (TCM) and main control valve body retaining bolts	8	-	71
Output shaft flange retaining nut	60	44	-
Torque converter retaining bolts	63	46	-
Transmission fluid cooler tube retaining bolt	22	16	-
Transmission fluid drain plug	8	-	71
Transmission fluid pan, gasket and filter retaining bolts	10	7	-

PUBLISHED: 20-JUL-2015
2015.0 XJ RANGE (X351), 307-01

AUTOMATIC TRANSMISSION/TRANSAXLE - VEHICLES WITH: 8HP70 8-SPEED AUTOMATIC
TRANSMISSION RWD

TRANSMISSION - TDV6 3.0L DIESEL (G1271947)

REMOVAL

44.20.01	TRANSMISSION ASSEMBLY - RENEW	3000 CC, TDV6	4.5	USED WITHINS
44.20.01.90	TRANSMISSION ASSEMBLY - REMOVE FOR ACCESS, AND INSTALL	3000 CC, TDV6	3.9	USED WITHINS
86.75.50	FRONT SEAT TRACK MOTOR - RENEW	ALL DERIVATIVES	0.4	USED WITHINS

REMOVAL

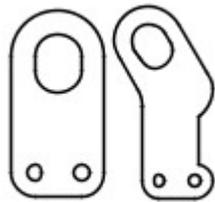
SPECIAL TOOL(S)



303-021

303-021

Engine support
bracket



E54554

303-1129

Engine Lifting
Brackets



E116925

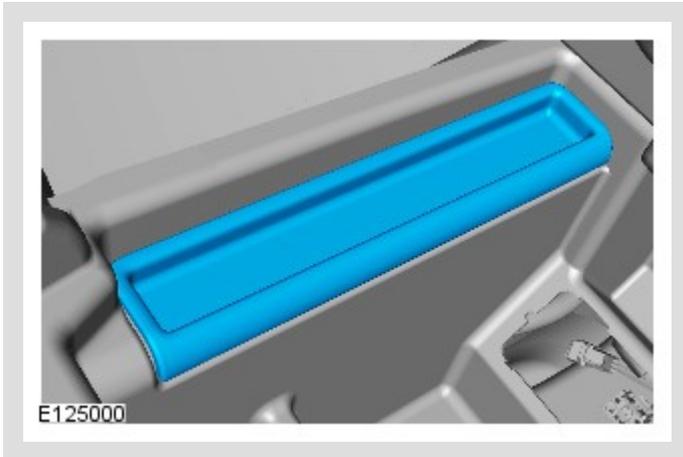
303-1497

Left-Hand Rear Engine Lifting
Bracket

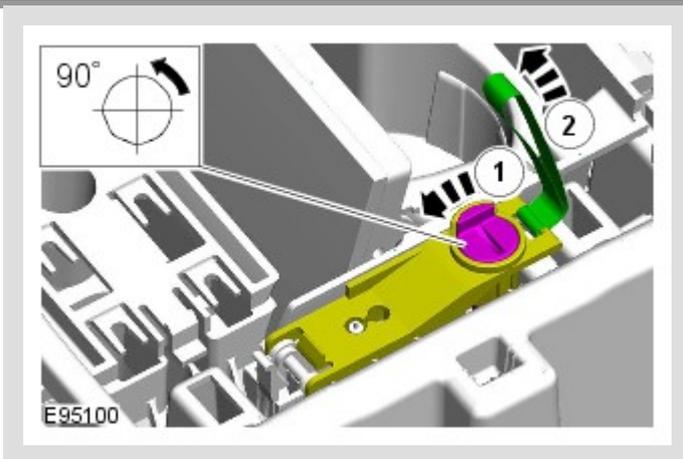


NOTE:

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



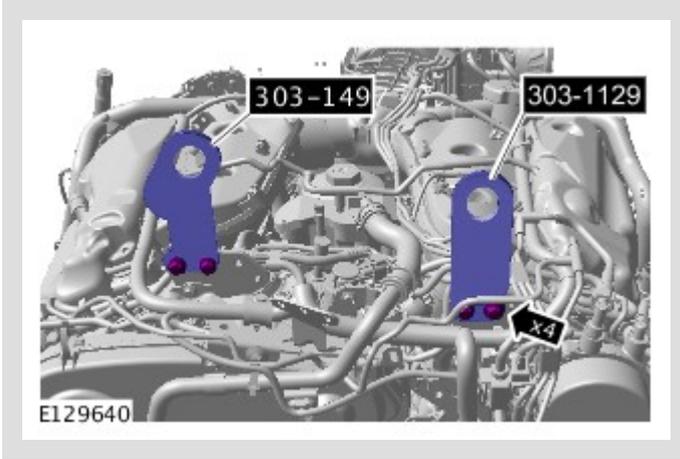
2.



3. Refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).

4. Refer to: [Engine Cover - TDV6 3.0L Diesel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

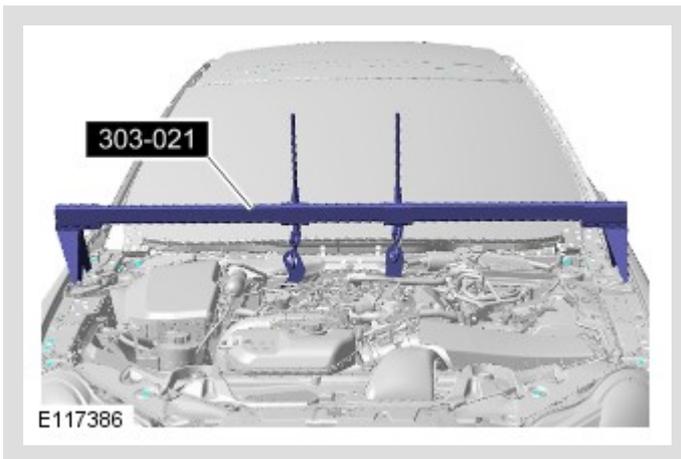
5.



Special Tool(s): 303-1129 , 303-1497

Torque: 22 Nm

6.



Special Tool(s): 303-021

7.

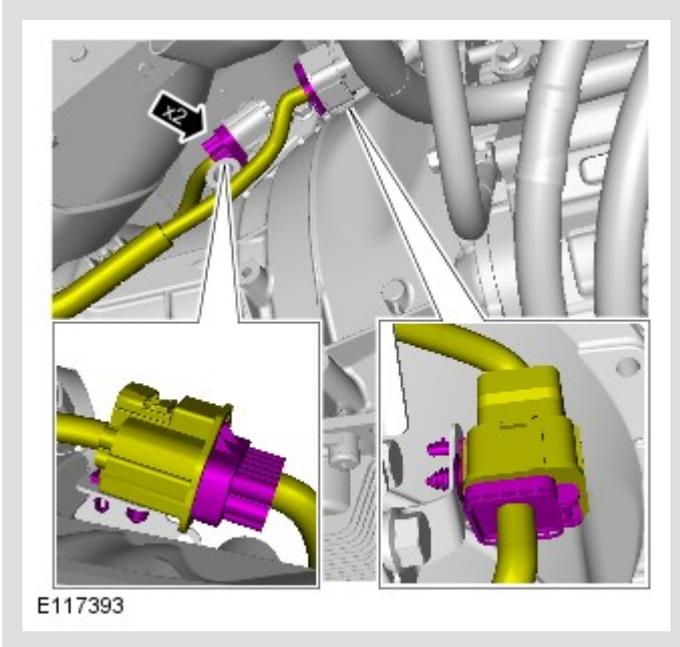


WARNING:

Make sure to support the vehicle with axle stands.

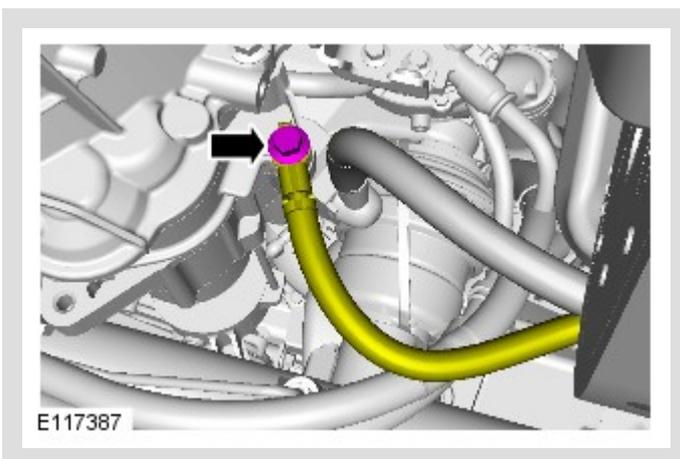
Raise and support the vehicle.

8.



9. Refer to: [Intake Air Shutoff Throttle](#) (303-04A Fuel Charging and Controls - TDV6 3.0L Diesel, Removal and Installation).
Refer to: [Exhaust Manifold Cross-over Pipe](#) (303-01A Engine - TDV6 3.0L Diesel, Removal and Installation).

10.

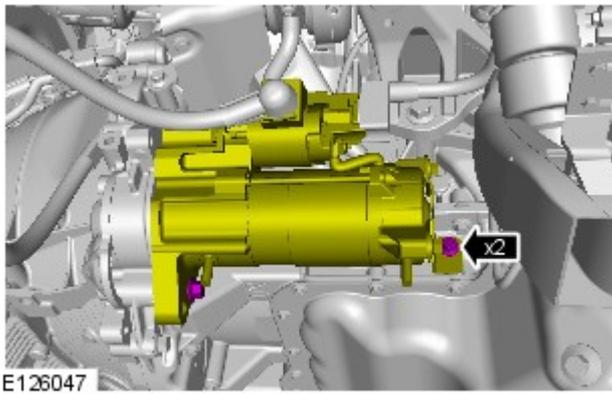


11.

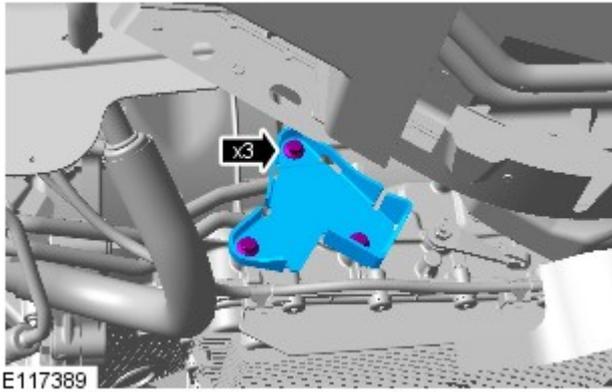


NOTE:

Secure with cable ties.



12.

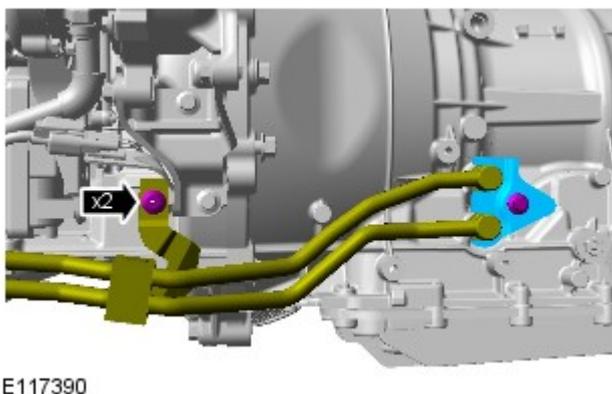


13.



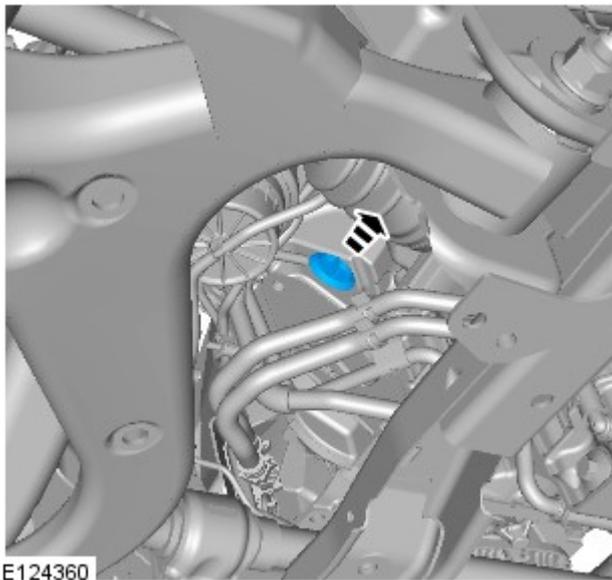
NOTE:

Remove and discard the O-ring seals.



- Install blanking caps to the exposed ports.

14.

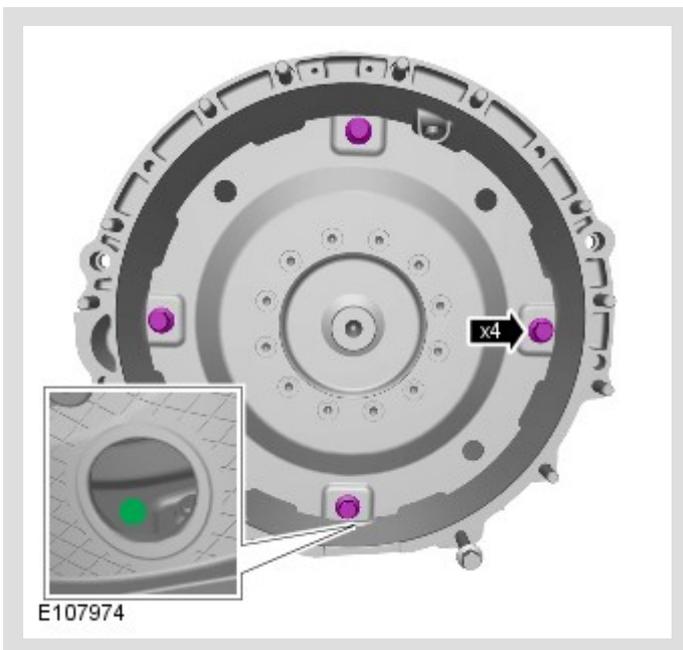


Remove the rubber access cover.

15.

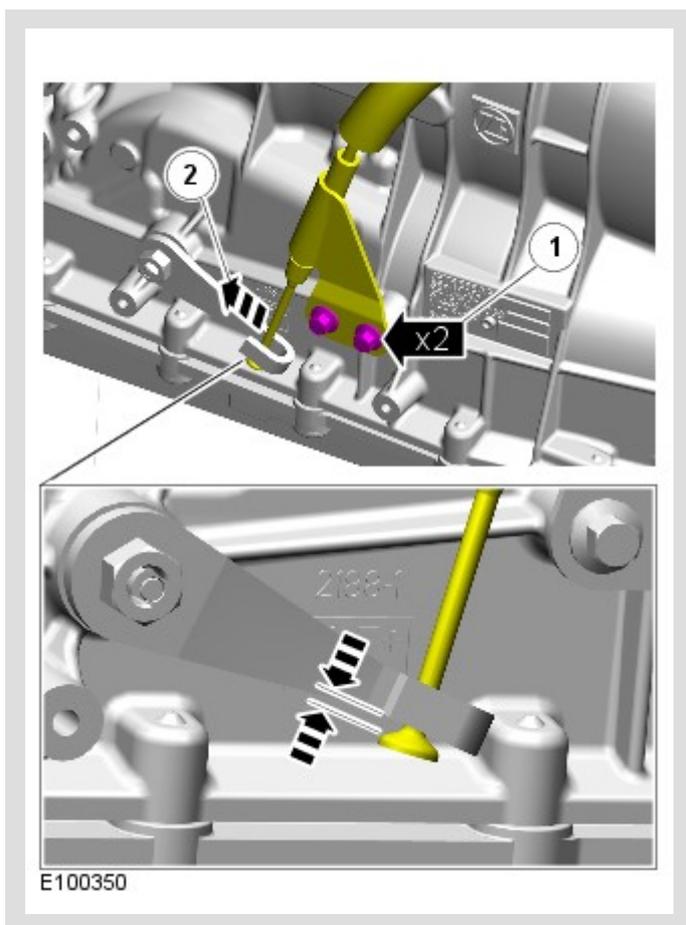
⚠ CAUTION:

Only rotate the crankshaft clockwise.



- Make sure that the alignment mark is visible through the inspection hole on removal of the last torque converter bolt.

16.

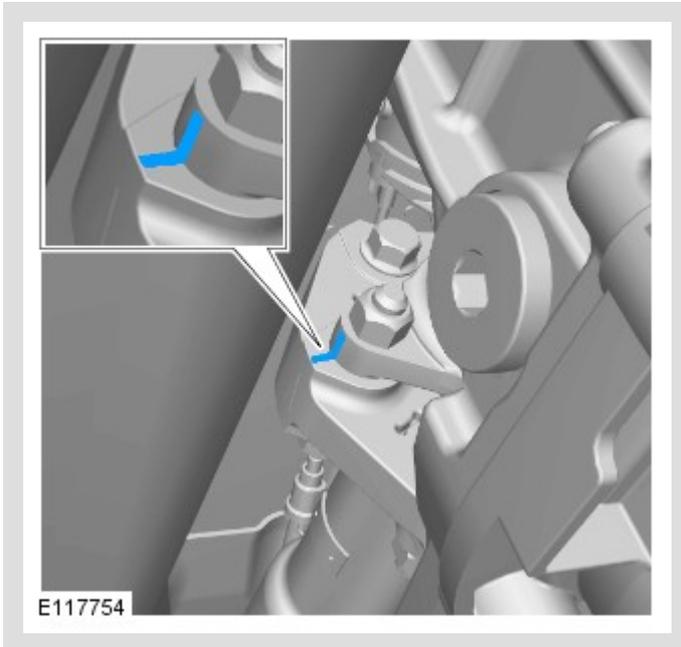


17.



NOTE:

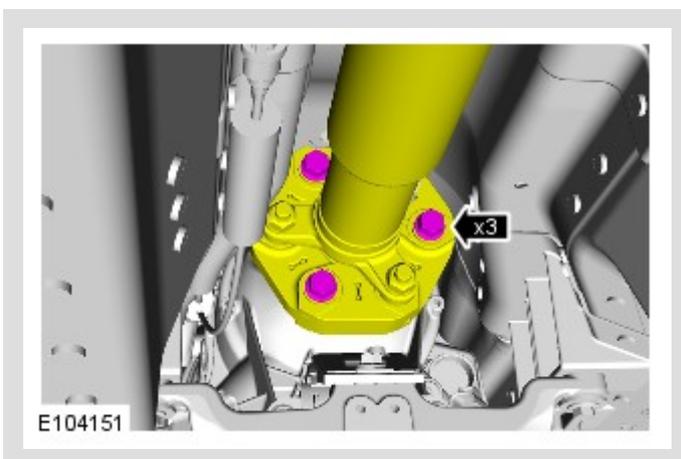
Mark the position of the driveshaft on the transmission flange.



18.

⚠ CAUTION:

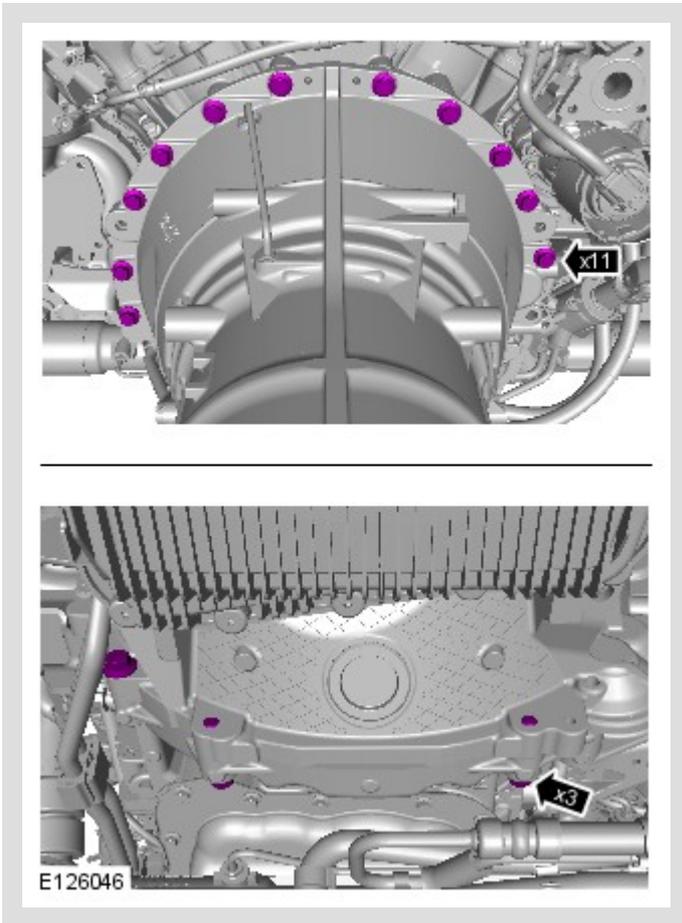
Under no circumstances must the flexible coupling (or its fixings) be loosened or removed from the driveshaft.



19.

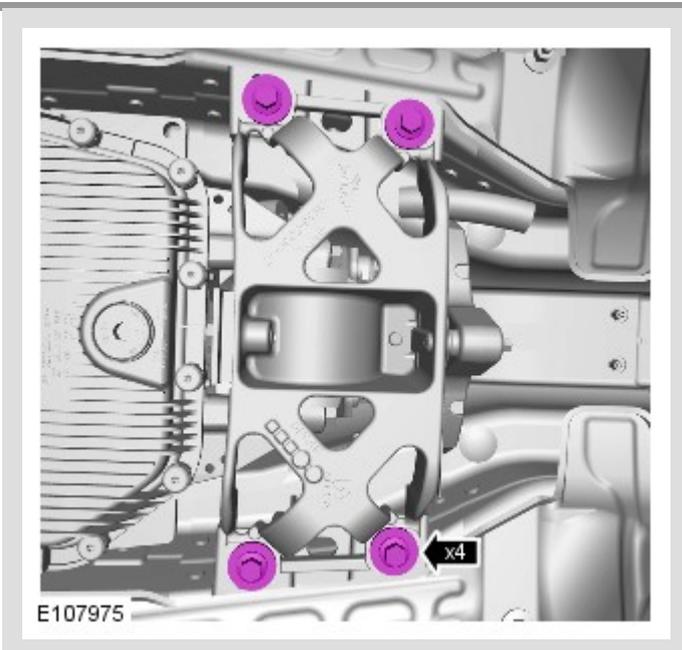
⚠ WARNING:

Make sure that the transmission is secured with suitable retaining straps.



Align the powertrain assembly jack to the transmission.

20.



⚠ CAUTION:

Make sure that the torque converter remains in the transmission.



Lower the transmission jack.

PUBLISHED: 20-JUL-2015
2015.0 XJ RANGE (X351), 307-01

AUTOMATIC TRANSMISSION/TRANSAXLE - VEHICLES WITH: 8HP70 8-SPEED AUTOMATIC
TRANSMISSION RWD

TRANSMISSION - TDV6 3.0L DIESEL (G1271949)

INSTALLATION

44.20.01	TRANSMISSION ASSEMBLY - RENEW	3000 CC, TDV6	4.5	USED WITHINS
44.20.01.90	TRANSMISSION ASSEMBLY - REMOVE FOR ACCESS, AND INSTALL	3000 CC, TDV6	3.9	USED WITHINS
86.75.50	FRONT SEAT TRACK MOTOR - RENEW	ALL DERIVATIVES	0.4	USED WITHINS

INSTALLATION

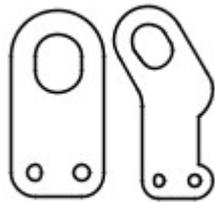
SPECIAL TOOL(S)



303-021

303-021

Engine support
bracket



E54554

303-1129

Engine Lifting
Brackets



E116925

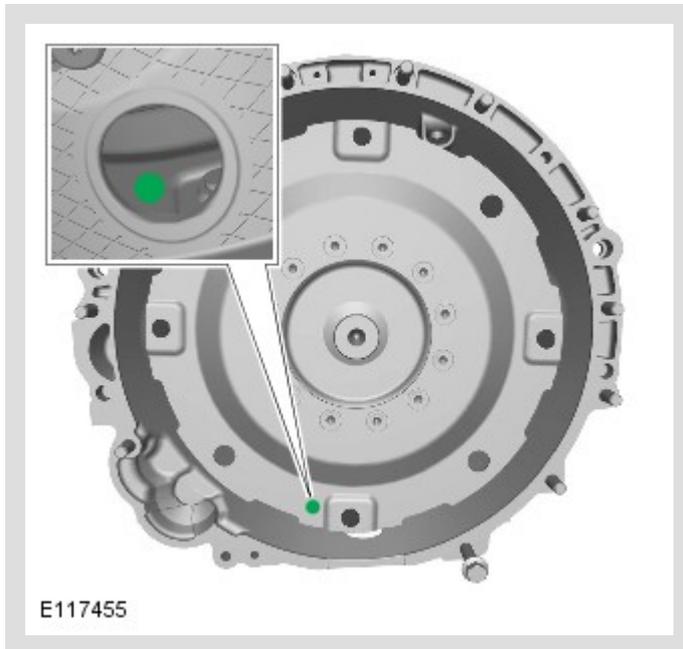
303-1497

Left-Hand Rear Engine Lifting
Bracket



NOTE:

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

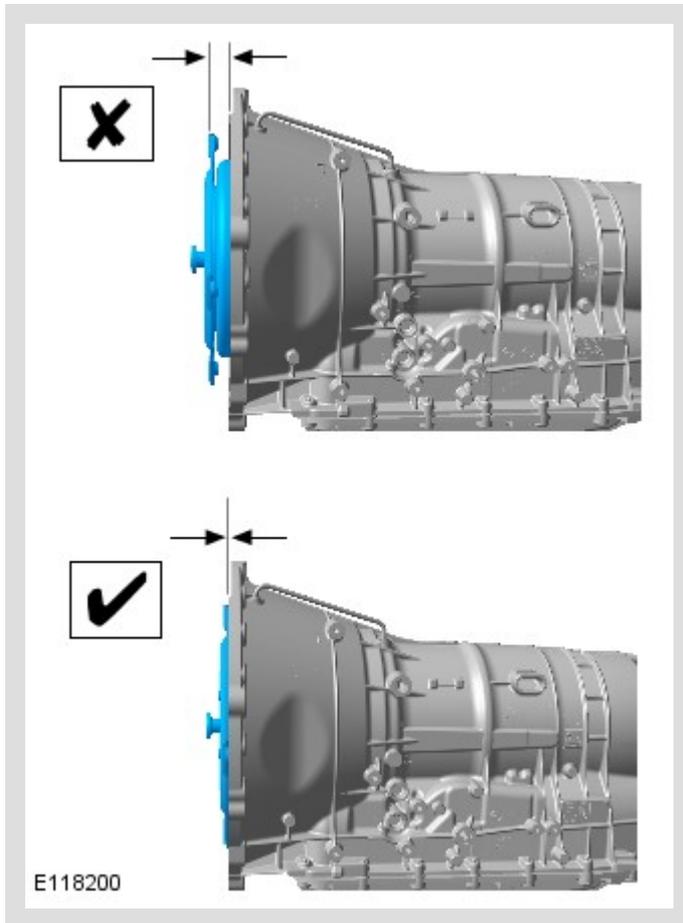


Make sure that the alignment mark is visible through the inspection hole on installation of the first torque converter bolt.

2.

⚠ CAUTION:

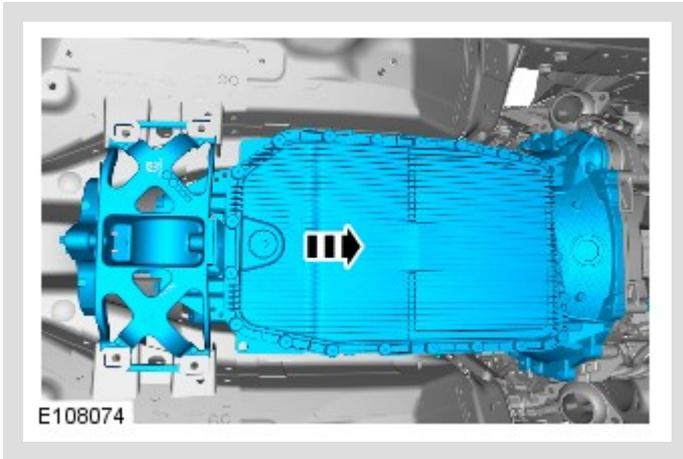
Make sure the torque converter is fully located into the oil pump drive.



3.

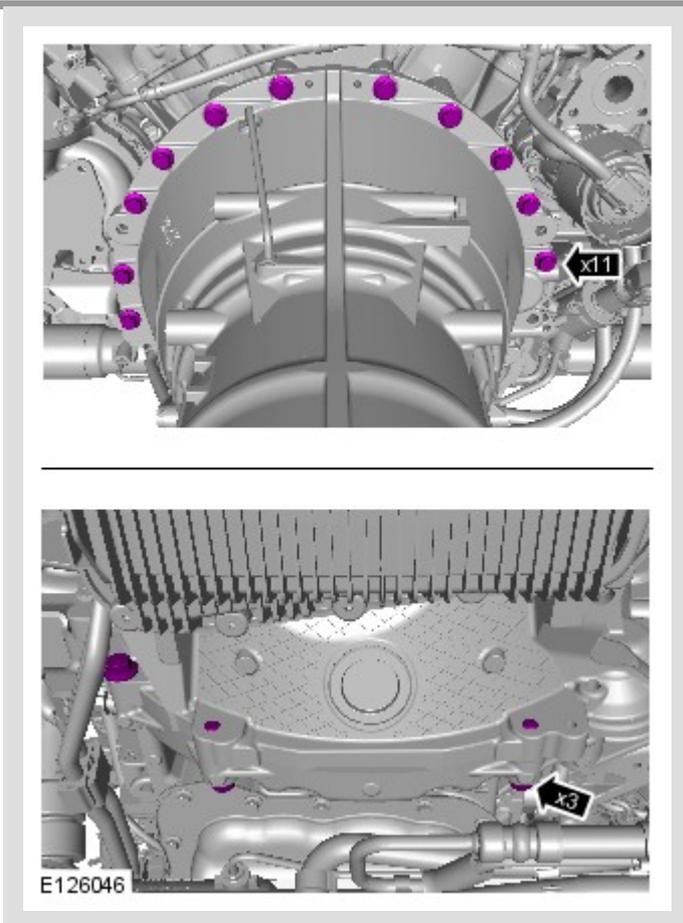
⚠ CAUTION:

Make sure that the torque converter remains in the transmission.



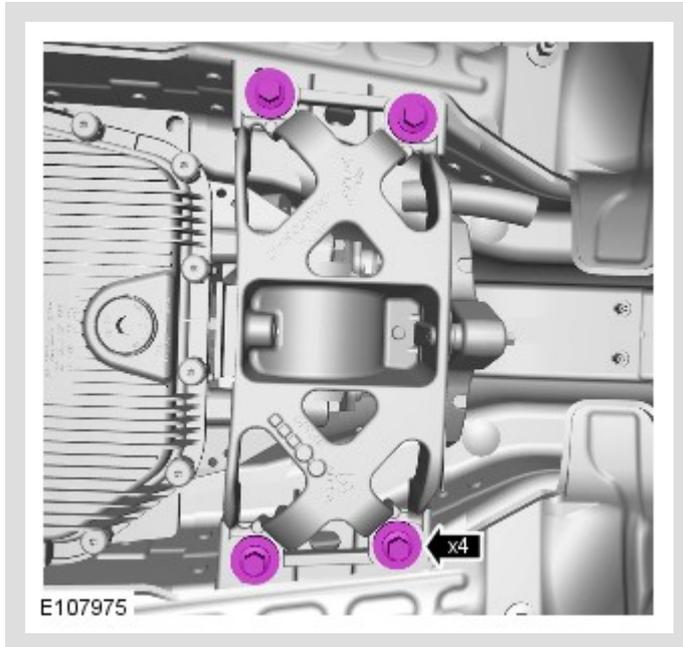
Raise the powertrain assembly jack and transmission assembly.

4.



Torque: 48 Nm

5.

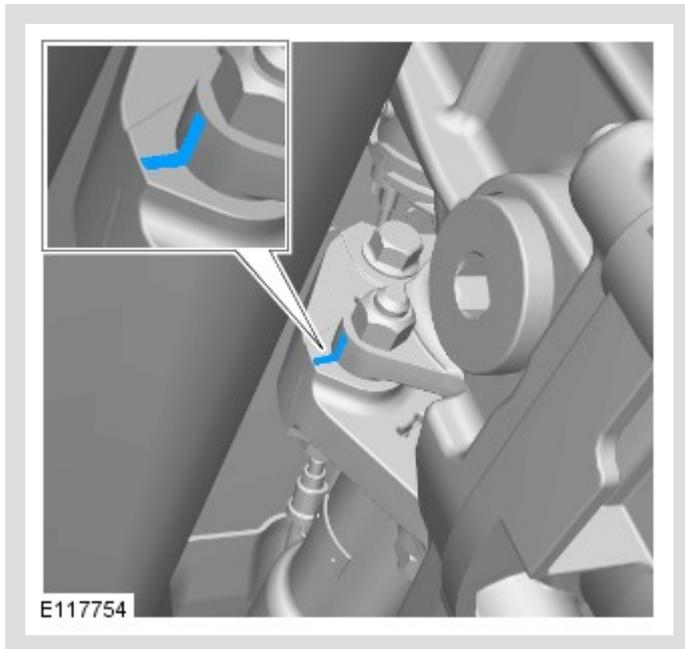


Torque: 48 Nm

6. Remove the transmission jack.

7.  **NOTE:**

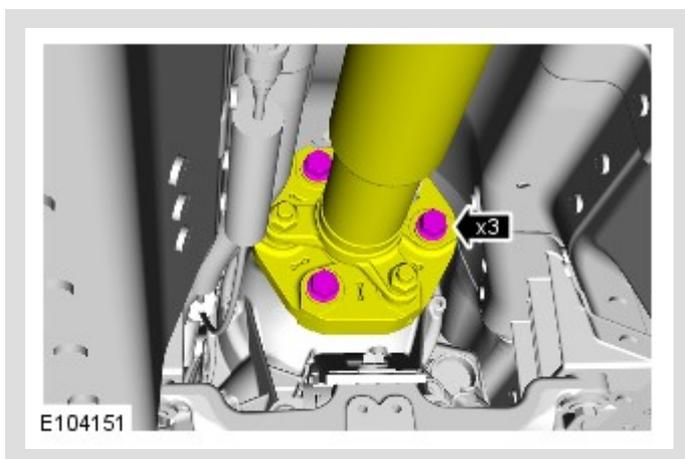
Make sure that you re-align the driveshaft to the transmission flange using the alignment mark.



8.

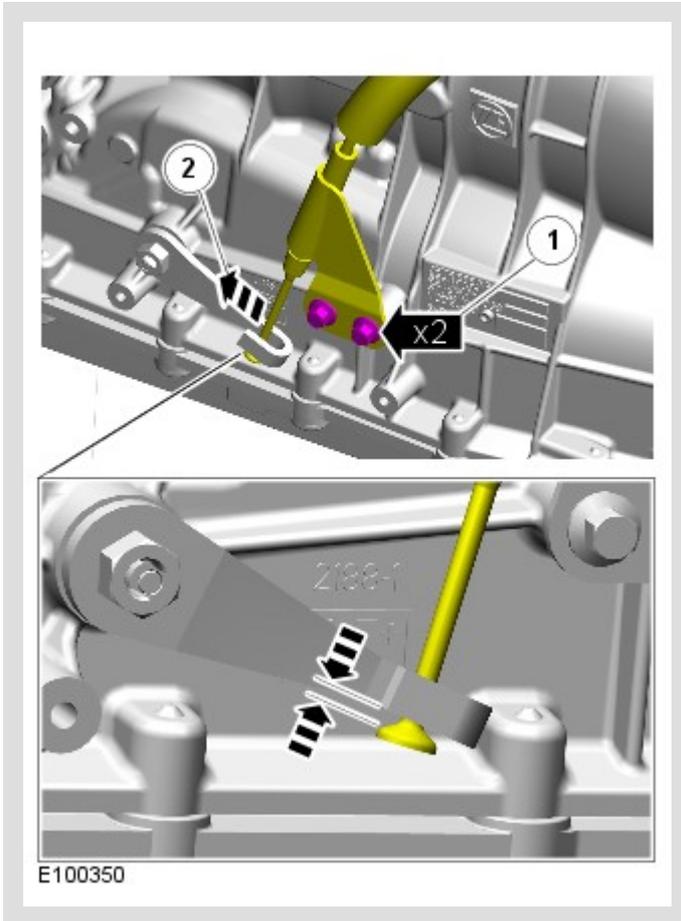
⚠ CAUTION:

Under no circumstances must the flexible coupling (or its fixings) be loosened or removed from the driveshaft.



Torque: 127 Nm

9.

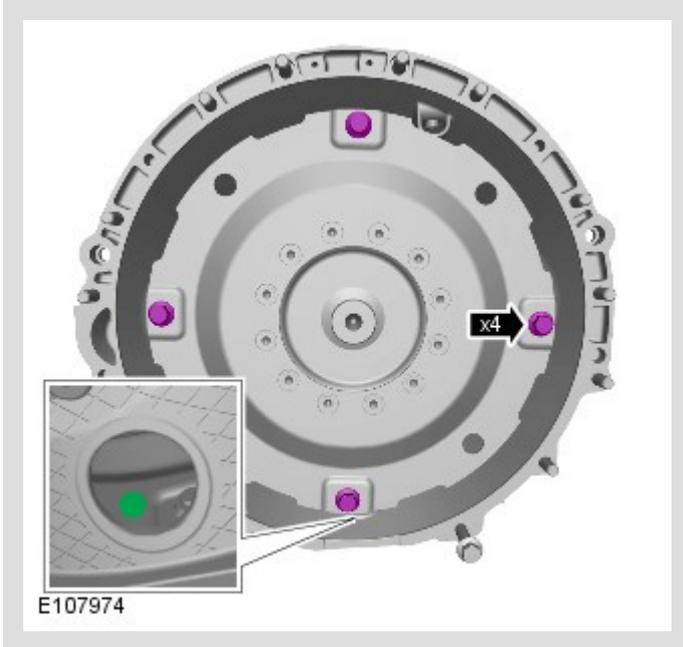


Torque: 10 Nm

10.

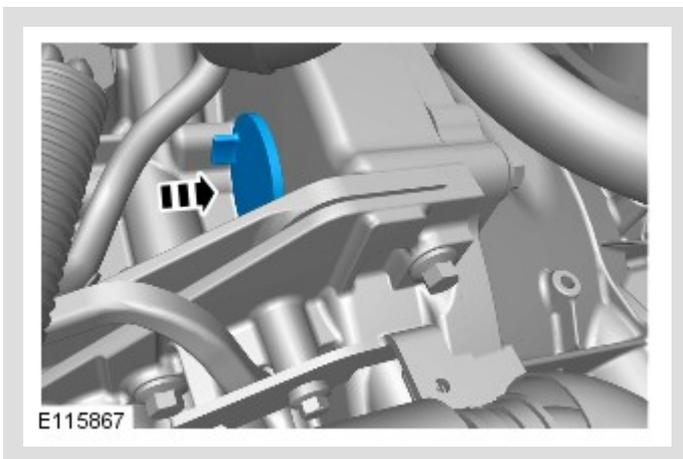
⚠ CAUTION:

Only rotate the crankshaft clockwise.



Torque: 63 Nm

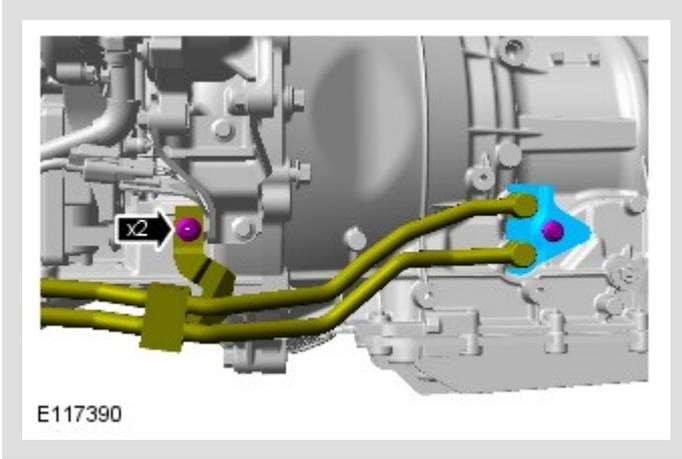
11.



12.

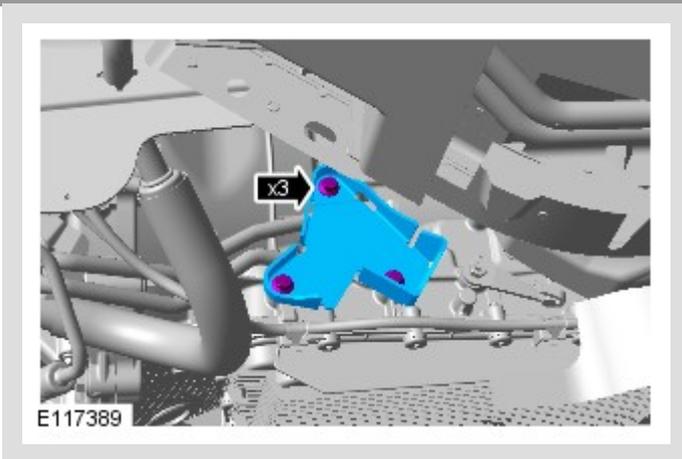
⚠ CAUTION:

Install new o-ring seals



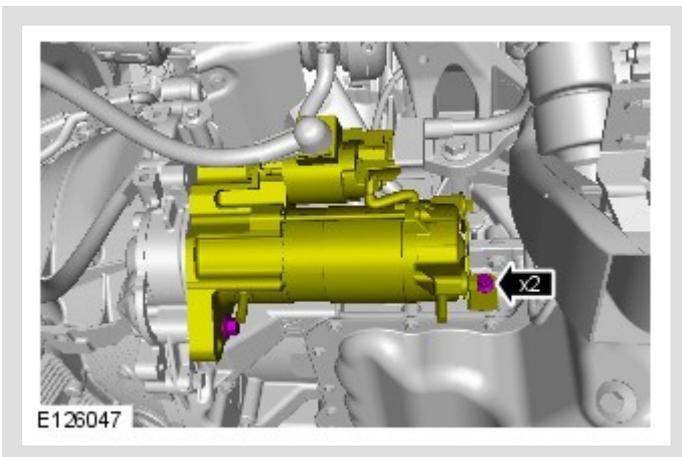
Torque: 10 Nm

13.



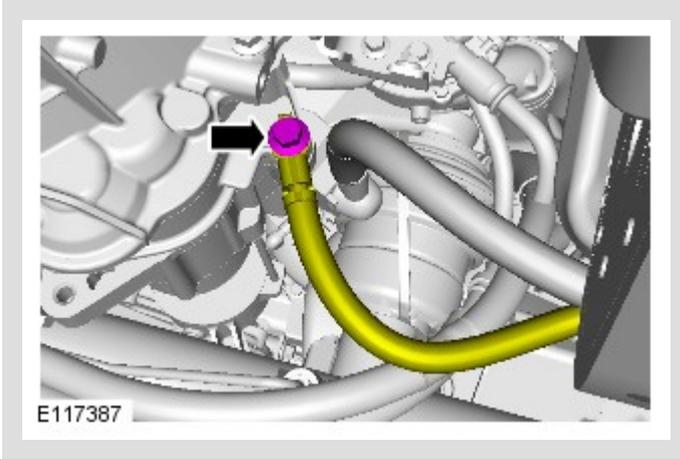
Torque: 23 Nm

14.



Torque: 48 Nm

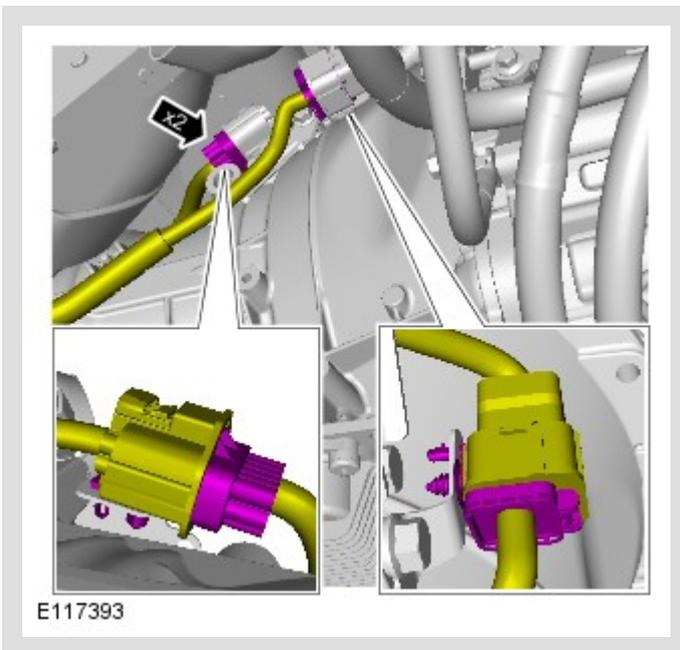
15.



Torque: 30 Nm

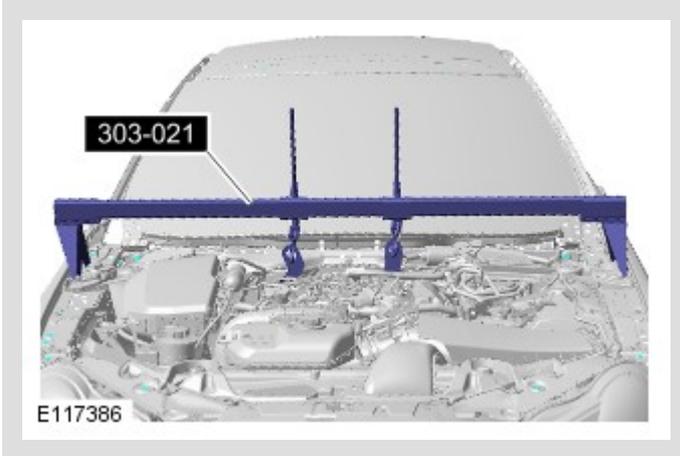
16. Refer to: [Intake Air Shutoff Throttle](#) (303-04A Fuel Charging and Controls - TDV6 3.0L Diesel, Removal and Installation).
Refer to: [Exhaust Manifold Cross-over Pipe](#) (303-01A Engine - TDV6 3.0L Diesel, Removal and Installation).

17.



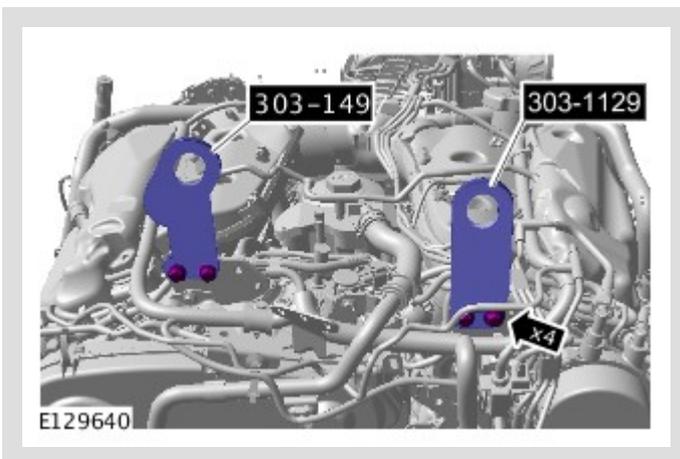
18. Lower the vehicle.

19.



- Remove the special tool supporting the engine.
- *Special Tool(s):* [303-021](#)

20.

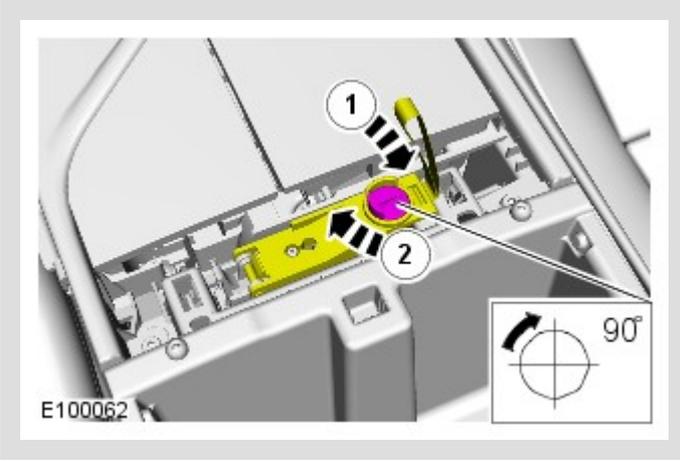


- Remove the special tools from the engine.
- *Special Tool(s):* [303-1129](#) , [303-1497](#)

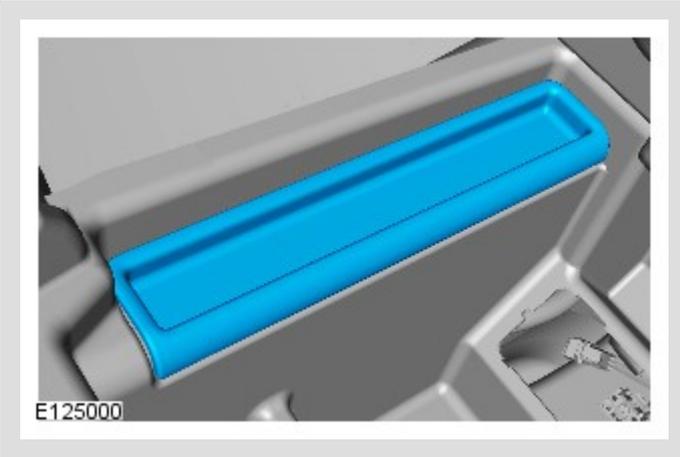
21. Refer to: [Engine Cover - TDV6 3.0L Diesel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

22. Refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).

23.



24.



PUBLISHED: 12-SEP-2011
2015.0 XJ RANGE (X351), 307-01

AUTOMATIC TRANSMISSION/TRANSAXLE - VEHICLES WITH: 8HP70 8-SPEED AUTOMATIC
TRANSMISSION RWD

**TRANSMISSION AND TRANSMISSION FLUID COOLER - TDV6 3.0L
DIESEL** (G1452832)

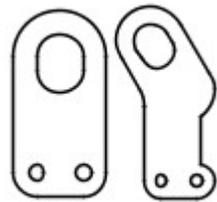
SPECIAL TOOL(S)



303-021

303-021

Engine support
bracket



E54554

303-1129

Engine Lifting
Brackets



E116925

303-1497

Left-Hand Rear Engine Lifting
Bracket

REMOVAL

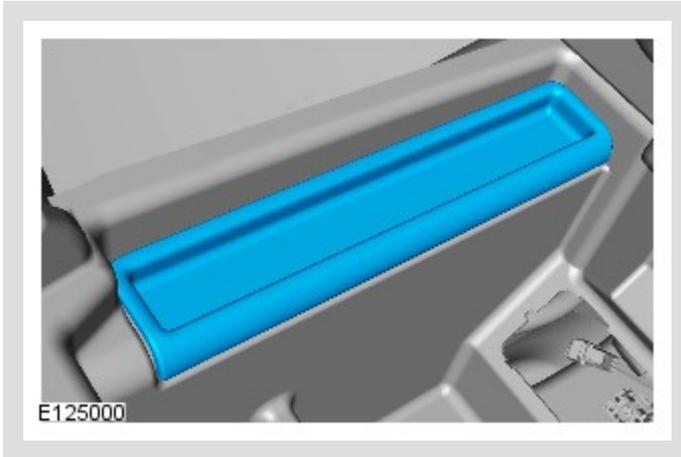
⚠ CAUTION:

Make sure that all openings are sealed. Use new blanking caps.

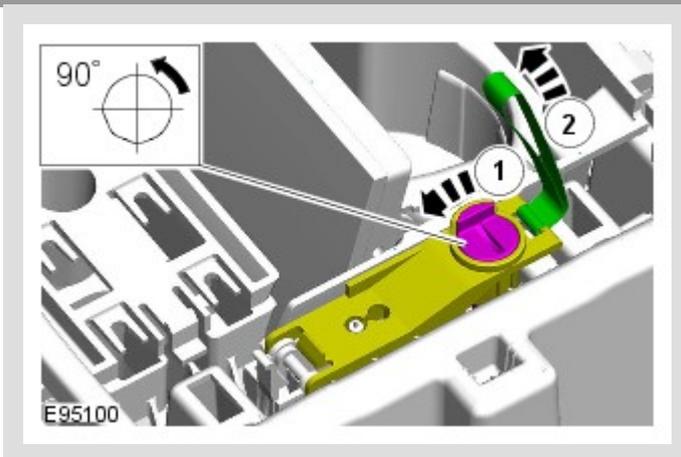
⚠ NOTE:

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

1.



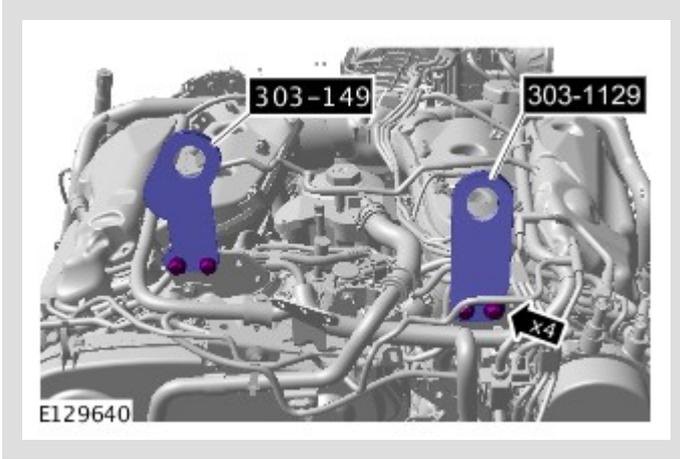
2.



3. Refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).

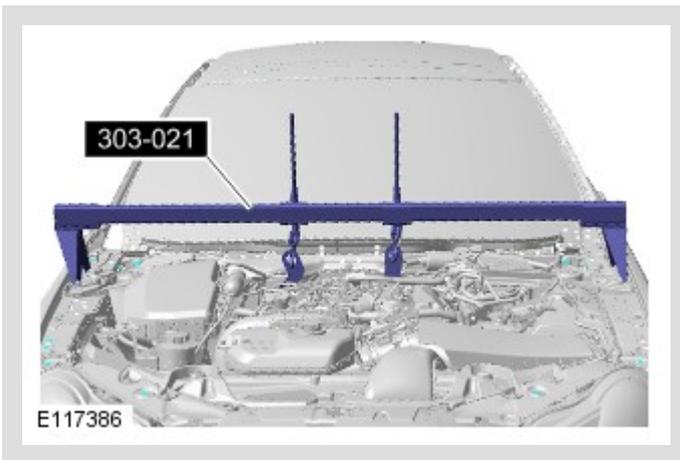
4. Refer to: [Engine Cover - TDV6 3.0L Diesel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

5.



Special Tool(s): 303-1129 , 303-1497

6.



Special Tool(s): 303-021

7.



WARNING:

Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

8.