



Jackshaft (12.65.38)

Special Service Tools



Sprocket holding tool RH rear cassette
303-643

Removal

- 1 . Disconnect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)
- 2 . Remove the torque converter flexplate. For additional information, refer to [Flexplate \(12.53.13\)](#) (Section 303-01)
- 3 . Remove the cylinder block jackshaft plug.
▶ Drift to release.



- 4 . Using the special tool, remove the RH cassette jackshaft drive, sprocket bolt.
▶ Remove and discard the Torx bolt.



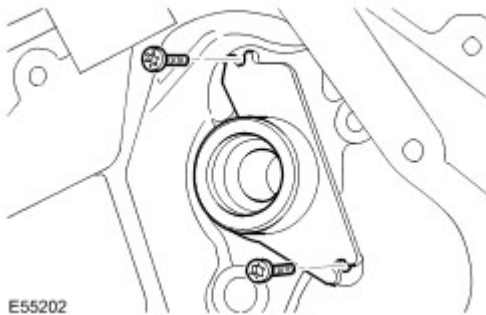
- 5 . Remove the camshaft drive cassette LH assembly. For additional information, refer to [Camshaft](#)

Drive Cassette LH (12.65.36) (Section 303-01)

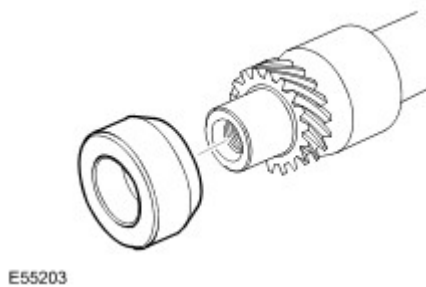
- 6 . Remove the oil pump drive gear.
- Remove the bolt.
 - Remove the clamp.
 - Remove and discard the O-ring seal.



- 7 . Remove the jackshaft thrust plate.
- Remove the 2 Torx bolts.



- 8 . Remove the jackshaft.
- Collect the spacer.

**Installation**

- 1 . Install the jackshaft.
- Clean the component mating faces.
 - Install the jackshaft spacer.

- ▶ Lubricate the components with clean engine oil.

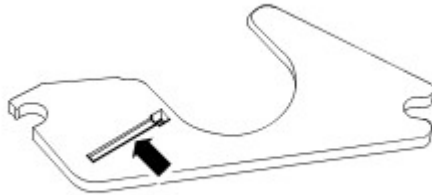
2 .

NOTE :

The groove in the thrust plate must face the cylinder block.

Install the jackshaft thrust plate.

- ▶ Clean the component mating faces.
- ▶ Lubricate the components with clean engine oil.
- ▶ Tighten the Torx bolts to 10 Nm (7 lb.ft).



E55204

3 .

Install the oil pump drive gear.

- ▶ Clean the components.
- ▶ Lubricate the components with clean engine oil.
- ▶ Install a new O-ring seal.
- ▶ Install the clamp.
- ▶ Tighten the bolt to 20 Nm (15 lb.ft).

4 .

Install the camshaft drive cassette LH assembly. For additional information, refer to [Camshaft Drive Cassette LH \(12.65.36\)](#) (Section 303-01)

5 .

Using the special tool, install the RH cassette jackshaft drive, sprocket bolt.

- ▶ Clean the component mating faces.
- ▶ Using the special tool, tighten the new jackshaft sprocket bolt to 40 Nm (30 lb.ft), then a further 45 degrees.



6 .

Install the cylinder block jackshaft plug.

- ▶ Clean the component mating faces.

- 7 . Install the torque converter flexplate. For additional information, refer to [Flexplate \(12.53.13\)](#) (Section 303-01)
- 8 . Connect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)