



## Camshaft Drive Cassette RH (12.65.37)

### 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 RH cylinder head assembly. For additional information, refer to [Cylinder Head RH \(12.29.05\)](#) (Section 303-01)
3. Remove the torque converter flexplate. For additional information, refer to [Flexplate \(12.53.13\)](#) (Section 303-01)
4. Remove the cylinder block jackshaft plug.

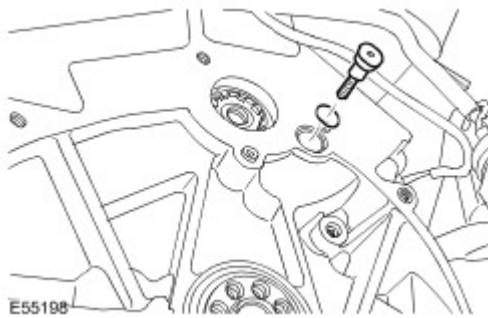
▶ Drift to release.



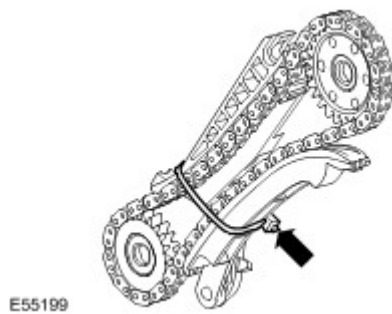
5. Using the special tool, remove the RH cassette jackshaft drive, sprocket bolt.  
▶ Remove and discard the Torx bolt.



6. Remove the camshaft drive cassette assembly.
- ▶ Remove the bolt retaining the chain guide.
  - ▶ Remove and discard the O-ring seal.



7. **NOTE :**  
Do not disassemble further if the component is removed for access only.  
Disassemble the cassette assembly.
- ▶ Release the cable tie.
  - ▶ Remove the sprockets and the chain.
  - ▶ Clean and inspect the components for deterioration.



## Installation

1. Assemble the cassette assembly.
- ▶ Install the chain and the sprockets.
  - ▶ Secure with a cable tie.
- 2.

Install the camshaft drive cassette assembly.

- ▶ Install a new O-ring seal.
- ▶ Tighten the bolt to 12 Nm (9 lb.ft).

3. Using the special tool, tighten the new jackshaft sprocket bolt to 40 Nm (30 lb.ft), then a further 45 degrees.



4. Install the cylinder block jackshaft plug.
- ▶ Clean the component mating faces.
5. Install the torque converter flexplate. For additional information, refer to [Flexplate \(12.53.13\)](#) (Section 303-01)
6. Install the cylinder head RH assembly. For additional information, refer to [Cylinder Head RH \(12.29.05\)](#) (Section 303-01)
7. Connect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)