

Clutch -

Lubricants, Fluids, Sealers and Adhesives

Item	Specification
Recommended hydraulic fluid	SHELL DONAX YB DOT4 ESL FLUID

General Specification

Item	Specification
Clutch make/type	LUK - Self adjusting clutch
Clutch size	250 mm (9.84 in)
Clutch plate friction material	Valeo 810 DS
Master cylinder make	FTE
Slave cylinder make/type	FTE Concentric slave cylinder

Torque Specifications

Description	Nm	lb-ft
Clutch cover to flywheel bolts - vehicles built up to 11MY* +	23	17
Clutch cover to flywheel bolts - vehicles built 11MY onwards* +	29	21

* Tighten bolts progressively by diagonal selection.

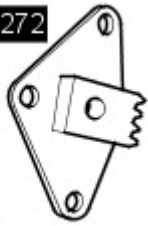
+ New bolts must be installed.

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Clutch - Clutch Disc and Pressure Plate

Removal and Installation

Special Tool(s)

 303-1272 Locking Tool, Flywheel E84830	
 308-667 Aligner, Clutch E86887	

Removal

1. Disconnect the battery ground cable.

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

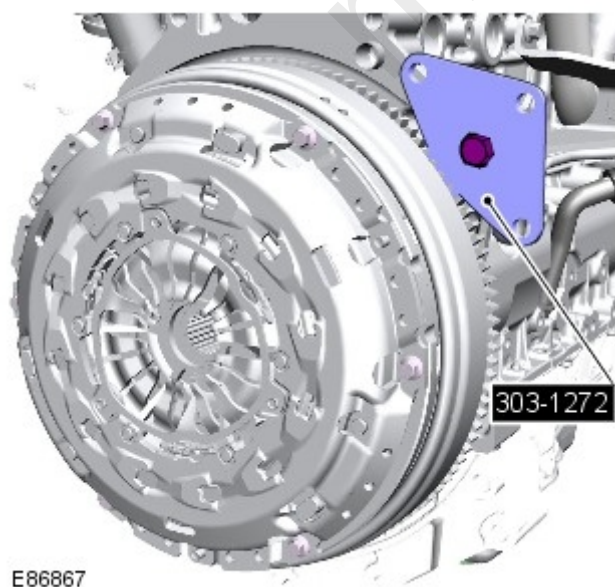
2.  **WARNING:** Make sure to support the vehicle with axle stands.

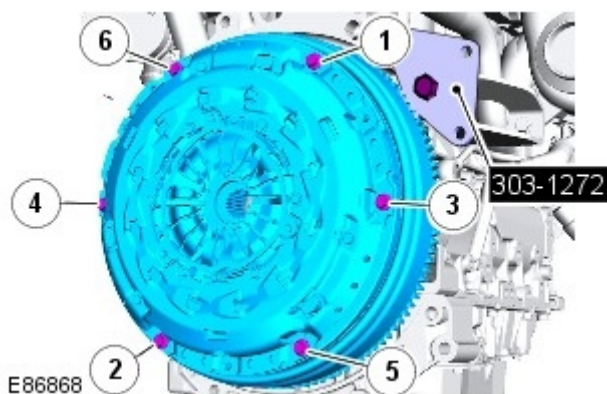
Raise and support the vehicle.

3. Remove the transmission assembly.

Refer to: [Transmission](#) (308-03 Manual Transmission/Transaxle, Removal).

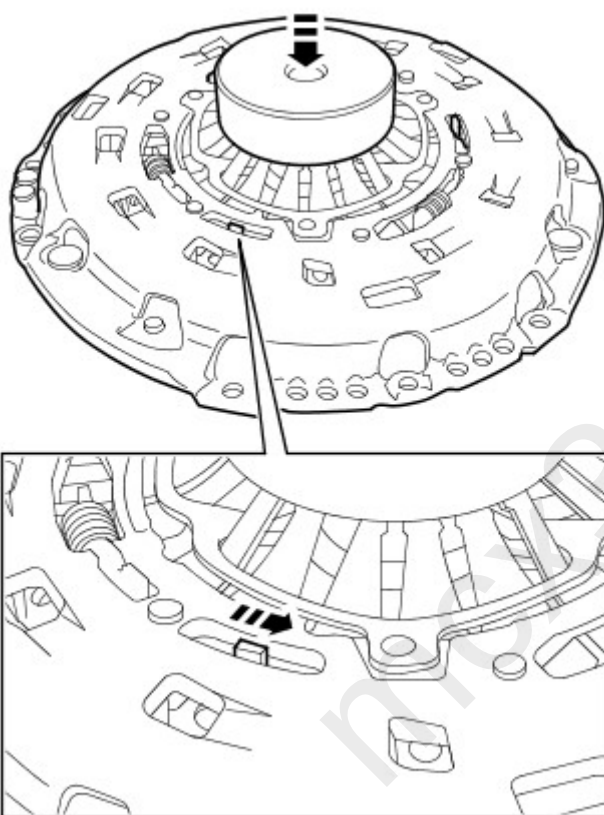
4. Special Tool(s): [303-1272](#)





5. **5.**  **CAUTION:** Discard the bolts.
 - **NOTE:** Loosen the bolts of the clutch pressure plate each two turns at a time in the sequence shown.
 - **NOTE:** Restrain the flywheel.

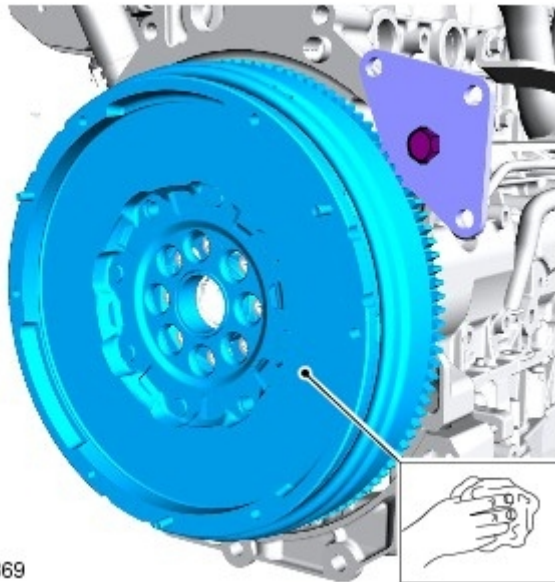
Installation



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1. **1.** **NOTE:** The clutch cover is self adjusting. It is recommended that a clutch disc and clutch cover is replaced as an assembly. If a used clutch cover is assembled with a new clutch disc, the clutch cover adjustment must be reset prior to assembly. With the clutch cover supported under its outside edge, press down evenly on the diaphragm fingers as shown, until the clutch cover adjustment ring can be rotated fully counterclockwise. With the adjustment ring held in this position, release the pressure on the diaphragm fingers. The adjustment ring will be held in this position until self adjustment on the application of the clutch pedal.

Check, and if necessary, reset the clutch pressure plate.



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2. 2. CAUTIONS:

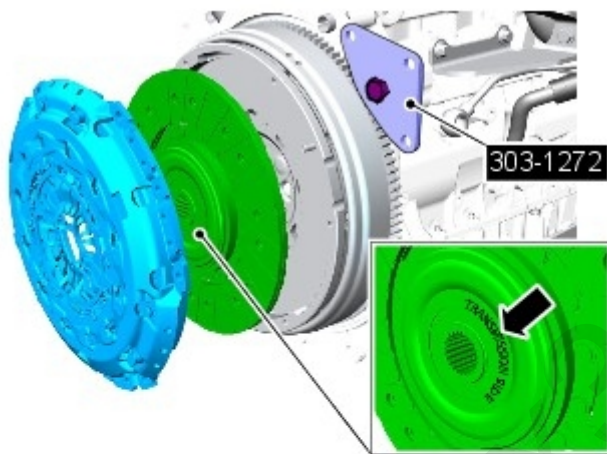


Examine the flywheel for signs of scoring or overheating. Renew if worn or damaged.



Examine the clutch release bearing for signs of wear or damage. Renew if necessary.

Clean the component mating faces.



3. 3. CAUTIONS:



Make sure that new bolts are installed.



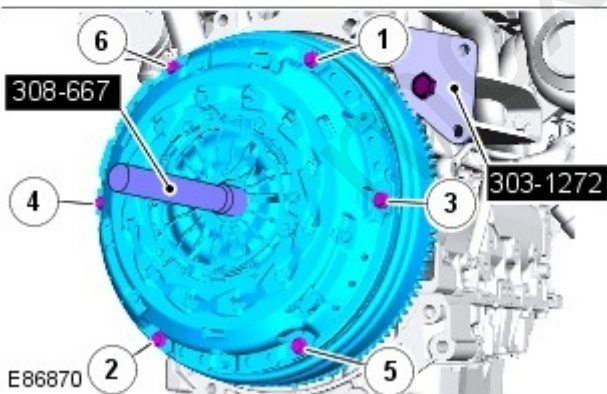
Install the clutch disc with 'TRANSMISSION SIDE' marking against the clutch cover.

• NOTE: Restrain the flywheel.

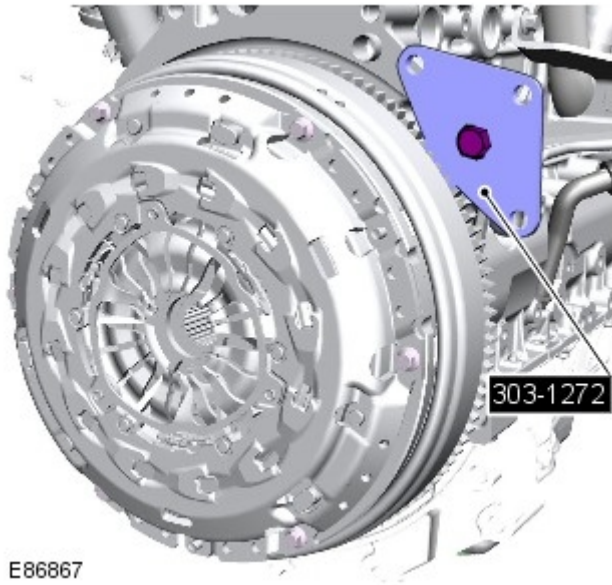
• NOTE: Follow the indicated sequence and tighten the bolts of the clutch pressure plate each two turns at a time until the specified tightening torque is achieved.

Special Tool(s): [308-667](#)

Torque: 23 Nm



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4. Remove the special tool.

Special Tool(s): [303-1272](#)

5. Install the transmission.

Refer to: [Transmission](#) (308-03 Manual Transmission/Transaxle, Installation).

6. Connect the battery ground cable.

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