

Component Procedures: Clutch Disc

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Component Procedures: Clutch Disc

Parts and Labor (itype_189)

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Clutch & Flywheel > Clutch, R&R > Aisin Ay6	B	6.3	4.4
Remove & Replace	Clutch & Flywheel > Clutch, R&R > Aisin Ay6 >?		0.2	
Remove & Replace	Clutch & Flywheel > Clutch, R&R > Aisin Ay6 >?		0.2	0.2
Remove & Replace	Clutch & Flywheel > Clutch, R&R > Tremec	B	4.9	3.3
Remove & Replace	Clutch & Flywheel > Clutch, R&R > Tremec > NO?		0.2	
Remove & Replace	Clutch & Flywheel > Clutch, R&R > Tremec > NO?		0.2	0.2

Clutch Assembly Replacement (AISIN) (Article 14027)

Special Tools

- DT-50194 - Clutch Alignment Tool
- J 42386-A - Flywheel Holding Tool

Removal Procedure

- Transmission Replacement » Remove
- If reusing the pressure plate assembly, place an alignment mark on the pressure plate and flywheel for proper alignment during installation.
- Loosen the clutch pressure plate bolts using the following sequence: [Click for full-size image](#)
- Loosen bolts 1 and 2 one full turn, then stop.
- Loosen bolts 3 and 4 one full turn, then stop.
- Loosen bolts 5 and 6 one full turn, then stop.
- Repeat steps 3.1 through 3.3 until all the bolts are loose.
- Remove the clutch pressure plate bolts from the flywheel.
- Remove the clutch pressure plate and the clutch driven plate s.

Installation Procedure

- Inspect the clutch pressure plate and the clutch driven plate for wear or damage. Repair or replace as necessary. [Click for full-size image](#)
- Inspect the engine flywheel. Refer to [Flywheel Replacement](#) .
- Using the DT-50194 - tool , align the clutch driven plates .
- Use NEW clutch pressure plate bolts in order to maintain proper torque. Apply LOCTITE 272 to the threads to make certain the bolts do not come loose.
- Do Not use air tools to install the clutch pressure plate bolts.
- The clutch driven plate must be installed so that side marked “flywheel” on the plate is orientated toward the engine.
- Install the clutch driven plate and clutch pressure plate to the engine flywheel with the clutch alignment tool still installed in the clutch assembly. [Click for full-size image](#)
- If reusing the clutch pressure plate, align the previously created mark on the flywheel with the alignment mark on the pressure plate.
- Install the NEW clutch pressure plate bolts finger tight.
- Install J 42386-A - tool and bolts. Use one M10 1.5 X 25 mm and one M10 1.5 X 45 mm bolt for proper tool operation. Tighten the J 42386-A - tool bolts to 50 Nm (37 lb ft).
- Tighten the clutch pressure plate bolts using the following sequence: [Click for full-size image](#)
- Finger tighten bolts 1 and 2.
- Using a socket wrench, turn bolts 1 and 2 360 degrees.
- Finger tighten bolts 3 and 4.
- Using a socket wrench, turn bolts 3 and 4 360 degrees.
- Finger tighten bolts 5 and 6.
- Using a socket wrench, turn bolts 5 and 6 360 degrees.
- Return to bolts 1 and 2 and rotate 360 degrees.
- Return to bolts 3 and 4 and rotate 360 degrees.
- Return to bolts 5 and 6 and rotate 360 degrees.
- Repeat steps 9.7–9.9 until the clutch pressure plate is flat against the flywheel
- Remove the clutch alignment tool.
- Torque the bolts to 30 Nm (22 lb ft) plus 20 degrees in the numbered sequence shown.
- Transmission Replacement » Install

Clutch Assembly Replacement (Tremec) (Article 14029)

Special Tools

- DT-49267 - Dual Clutch Alignment Tool
- DT-50194 - Clutch Disc Alignment Tool

For equivalent regional tools, refer to Special Tools .

Removal Procedure

- Remove the manual transmission . Refer to Transmission Replacement for the Aisin AY6 transmission or Transmission Replacement for the Tremec 6-Speed transmission. Click for full-size image
- Remove and discard the clutch pressure plate bolts.
- Remove the clutch pressure plate and driven disc from the dowel pins on the flywheel .

Installation Procedure

- Inspect the engine flywheel. Replace if necessary. Refer to Flywheel Replacement for 6 cylinder engines or Flywheel Replacement for V8 engines.
- The splined portion of the driven plate protrudes out of the plate more on one side than the other. The side that protrudes out more is the transmission side. The arrow in the graphic indicates the front of the vehicle, or flywheel side of the driven plate. Click for full-size image
- Install the clutch pressure plate and driven plate to the dowel pins on the flywheel. Click for full-size image
- Install the NEW clutch pressure plate bolts finger tight.
- Ensure all three dowel pins (1) are visibly seated through the clutch cover dowel pin alignment holes as shown. Click for full-size image
- On V6 models, use DT-50194 - tool or a commercially available universal clutch alignment tool to align the clutch driven plate to the clutch pilot bearing . On V8 models, use DT-49267 - tool or a commercially available universal clutch alignment tool to align the clutch driven plate to the clutch pilot bearing .
- On V6 models, tighten the clutch pressure plate bolts in the sequence shown, starting with the number one and following in numerical order. Click for full-size image
- Tighten all the clutch pressure plate bolts in sequence and evenly to 15 Nm (11 lb ft) .
- Tighten all the clutch pressure plate bolts in sequence and evenly to 30 Nm (22 lb ft) .
- Loosen bolts (1, 2, 3) 180 degrees. Re-torque bolts (1, 2, 3) in sequence and evenly to 30 Nm (22 lb ft) plus 20 degrees .
- Loosen bolts (4, 5, 6) 180 degrees. Re-torque bolts (4, 5, 6) in sequence and evenly to 30 Nm (22 lb ft) plus 20 degrees .
- On V8 models, tighten the clutch pressure plate bolts in the sequence shown, starting with the number one and following in numerical order.
- Tighten all the clutch pressure plate bolts in sequence and evenly to 35 Nm (26 lb ft) .
- Tighten all the clutch pressure plate bolts in sequence and evenly to 70 Nm (52 lb ft) .
- Install the manual transmission. Refer to Transmission Replacement for the Aisin AY6 transmission or Transmission Replacement for the Tremec 6-Speed transmission.