



REMOVAL & INSTALLATION

CAUTION

The clutch driven disc contains asbestos, which has been determined to be a cancer causing agent. Never clean clutch surfaces with compressed air! Avoid inhaling any dust from any clutch surface! When cleaning clutch surfaces, use a commercially available brake cleaning fluid.

1. Raise the vehicle and support it with jackstands.
2. Remove the transmission.
3. Mark the clutch assembly-to-flywheel relationship with paint or a center punch so that the clutch assembly can be reassembled in the same position from which it is removed. Insert a clutch aligning tool (dummy shaft) into the hub. This tool is available from your local Nissan dealer or an auto parts store. It is important to support the weight of the clutch while the retaining bolts are being removed.
4. Loosen the clutch cover-to-flywheel attaching bolts, one turn at a time in an alternating sequence, until the spring tension is relieved to avoid distorting or bending the clutch cover. Remove the clutch assembly.

To install:

5. Inspect the flywheel for scoring, roughness, or signs of overheating. Light scoring may be cleaned up with emery cloth, but any deep grooves or scoring warrant replacement or refacing (if possible) of the flywheel. If the clutch facings or flywheel are oily, inspect the transmission front cover oil seal, the pilot bushing, and engine rear seals, etc. for leakage, and correct before replacing the clutch. If the pilot bushing in the crankshaft is worn, replace it. Install it using a soft hammer. The factory supplied part does not have to be oiled, but check the part manufacturer's instructions if you are using an aftermarket part. Inspect the clutch cover for wear or scoring, and replace as necessary. The pressure plate and spring cannot be disassembled; you must replace the clutch cover as an assembly.
6. Inspect the clutch release bearing. If it is rough or noisy, it should be replaced. The bearing can be removed from the sleeve with a puller; this requires a press to install the new bearing. After installation, coat the groove in the sleeve, the contact surfaces of the release lever, pivot pin and sleeve, and the release bearing contact surfaces on the transmission front cover with a light coat of grease. Be careful not to use too much grease, which will run at high temperatures and get onto the clutch facings. Reinstall the release bearing on the lever.

Fig. 1: Clutch installation tool

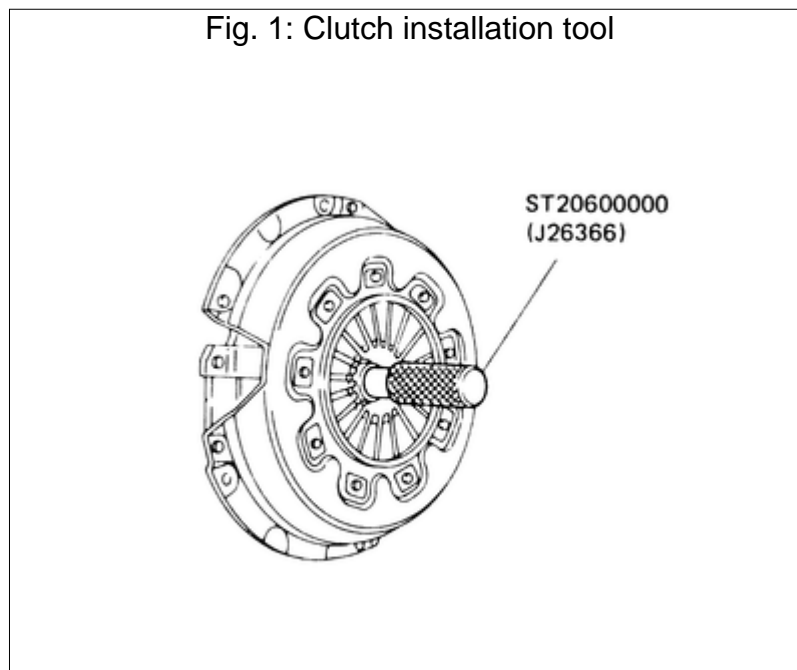


Fig. 2: Tighten the clutch housing bolts in this order

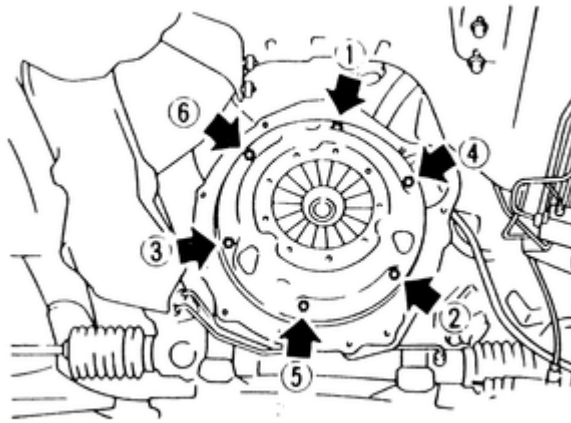


Fig. 3: Exploded view of the clutch assembly

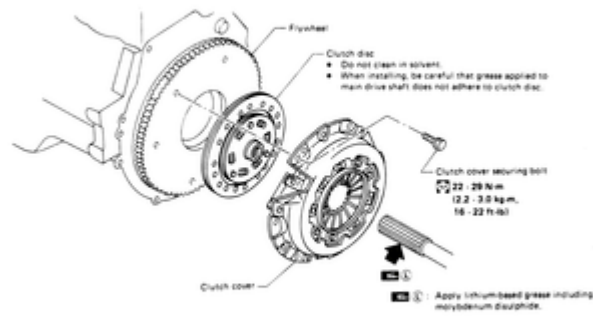


Fig. 4: Exploded view of the clutch release mechanism

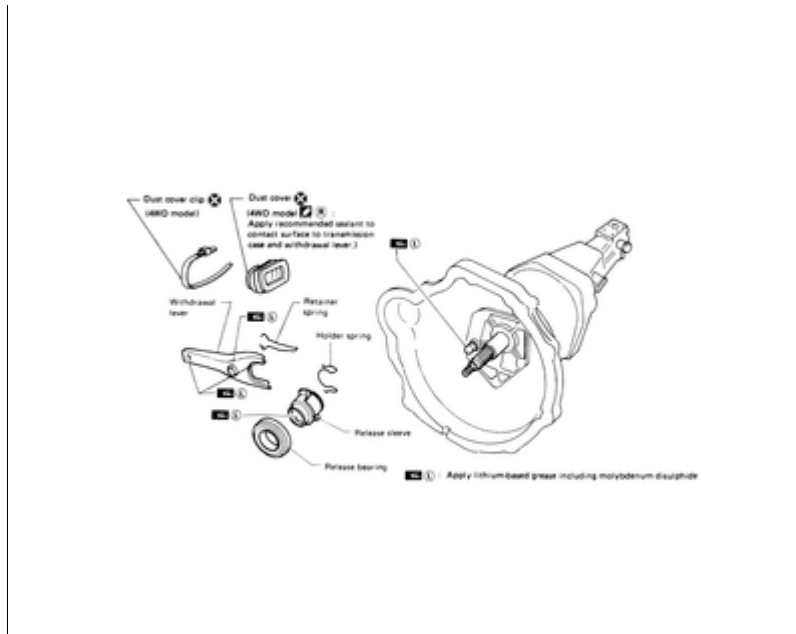


Fig. 5: View of the clutch assembly after the transmission is removed



Fig. 6: Install a special aligning tool before removing the clutch assembly

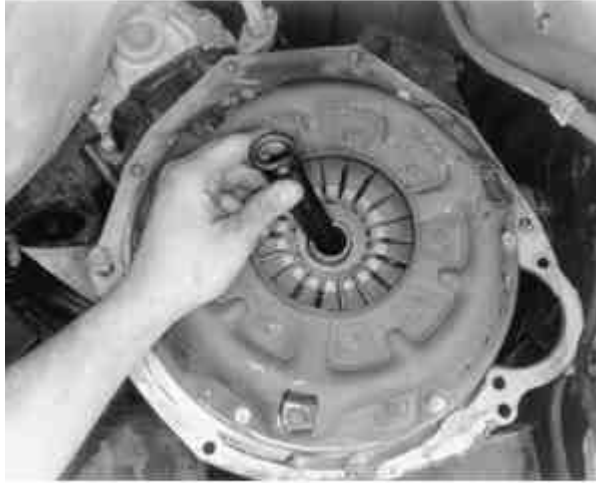


Fig. 7: When removing the clutch assembly lock the flywheel from turning



Fig. 8: View of the clutch pressure plate and disc assembly after the retaining bolts are removed



Fig. 9: When removing the flywheel assembly lock the flywheel from turning to aid in removal

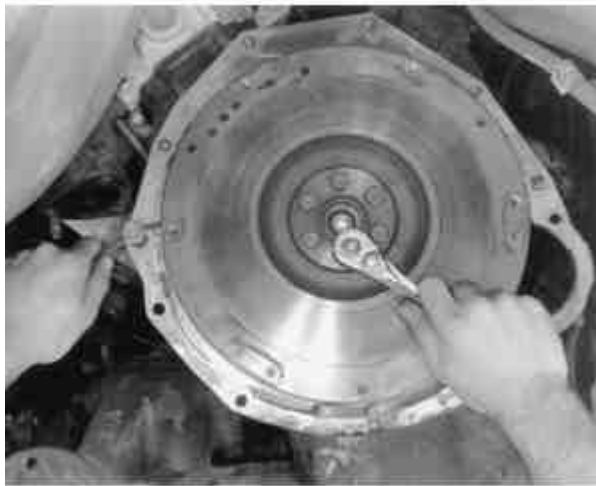


Fig. 10: Remove the flywheel, do not forget to check the pilot bushing



Fig. 11: Install the flywheel, make sure to tighten the retaining bolts in a crisscross pattern



Fig. 12: Install the clutch assembly, make sure to tighten the retaining bolts in a crisscross pattern and lock the flywheel from turning

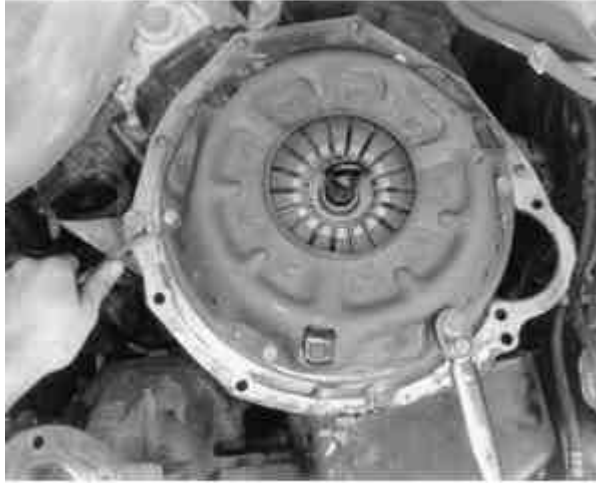


Fig. 13: View of the transmission removed — note the clutch release bearing in position

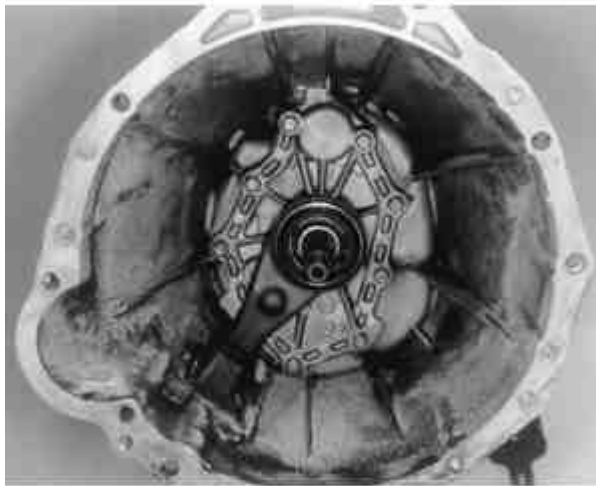


Fig. 14: Remove the release bearing from the transmission mainshaft



7. Apply a thin coat of grease to the pressure plate wire ring, diaphragm spring, clutch cover grooves and the drive bosses on the pressure plate.
8. Apply a thin coat of Lubriplate® to the splines in the driven plate. Slide the clutch disc onto the splines, and move it back and forth several times. Remove the disc and wipe off the excess lubricant. Be very careful not to get any grease on the clutch facings.
9. Assemble the clutch cover and the clutch plate on the clutch alignment arbor.
10. Align the marks made on the clutch cover and the flywheel (if the old cover is being used) and install the clutch cover-to-flywheel attaching bolts. Three dowels are used to locate the clutch cover on the flywheel properly. Tighten the bolts in an alternating sequence one turn at a time to 16–22 ft. lbs. (22–29 Nm). Remove the aligning arbor (dummy shaft).
11. Install the transmission.

