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# R150 MANUAL TRANSMISSION

DESCRIPTION

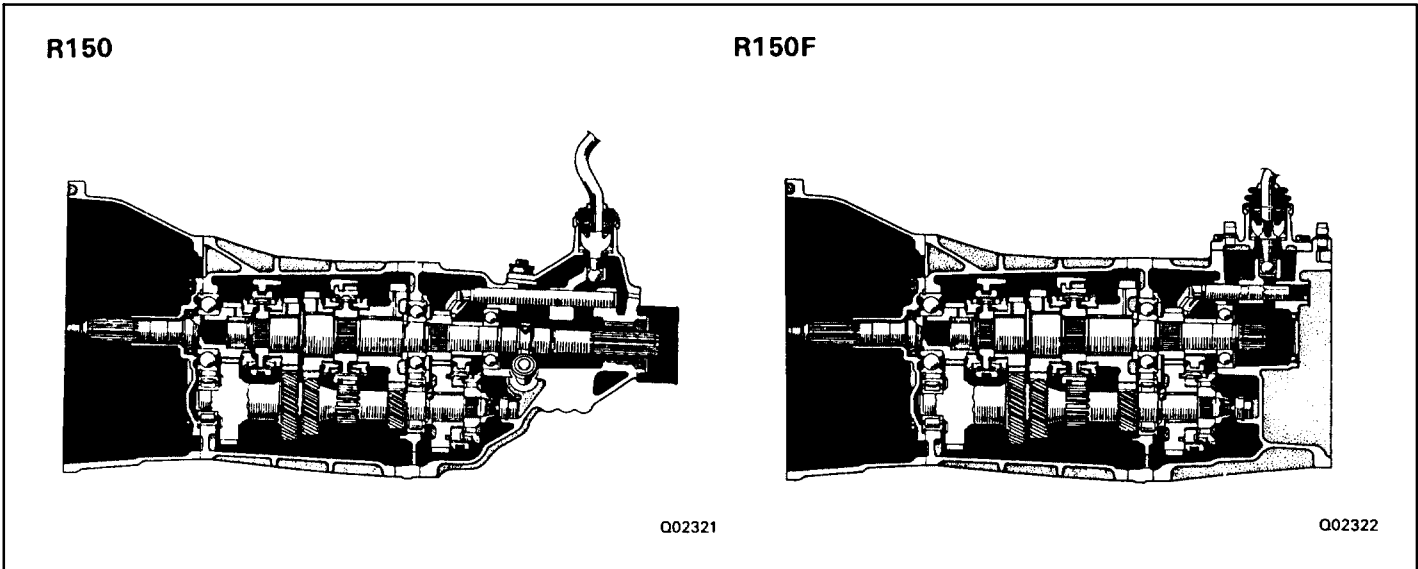
PRECAUTIONS

When working with FIPG material, you must observe the following.

- Using a razor blade and gasket scraper, remove all the old FIPG material from the gasket surfaces.
- Thoroughly clean all components to remove all the loose material.
- Clean both sealing surfaces with a non-residue solvent.
- Apply the FIPG in an approx. 1 mm (0.04 in.) wide bead a long the sealing surface.
- Parts must be assembled within 10 minutes of application. Otherwise, the sealant (FIPG) material must be removed and reapplied.

DESCRIPTION

- Transmission types, R150 (for 2WD) and R150F (for 4WD) use constant mesh synchronizers for forward gears, and a sliding mesh reverse gear.
- The input shaft is composed of the 1st and 2nd speed gears and the reverse drive gear, and the output shaft is composed of the drive gear (for use with the ring gear).



Type of Transmission		R150, R150F
Type of Engine		3VZ-E
Gear Ratio	1st	3.830
	2nd	2.062
	3rd	1.436
	4th	1.000
	5th	0.838
	Reverse	4.220
Oil Capacity		3.0 liters (3.2 US qts, 2.6 Imp.qts)
Oil Viscosity		SAE 75W-90
Oil Grade		API GL-4