

Transmission, General

Transmission spinning gears should have from .003" to .005" side play. Less than that and they may bind on the shaft; more and the gear may not engage with the sliding gear. Normally, the only shaft that needs shimming is the drive gear shaft. The clutch shaft sideplay is mostly removed when the clutch is tightened on the shaft.

These gears should have 50 to 75 percent of engagement of the dogs in the gear slots/holes. Less than that may cause damage to the mating surfaces or break the dogs.

The clutch shaft bearing circlip should be 1.6mm thick, not 1.4mm. The thinner circlip increases sideplay which will cause a loss of clutch free play and a tendency to jump out of fourth or fifth gear. Check clutch free play on the rode with the engine pulling. If clutch free play diminishes when the engine is under load, a thicker circlip is required.

Shim part number and sizes:

156-17417-00-01 (02, etc)	25mm ID, 31mm OD, .02 thick
137-23145-01	Identical to above shim
328-17427-00-03	20 ID, 31 OD, .03 thick