

C. Inspection

1. Main shaft to main shaft gear clearance (Fig. 3. 99)

Item	Standard value	Serviceable limit
Second gear ①	0.016~0.052 mm (0.0006~0.0020 in)	Replace if over 0.1 mm (0.004 in)
Top gear ②	0.016~0.052 mm (0.0006~0.0020 in)	Replace if over 0.1 mm (0.004 in)

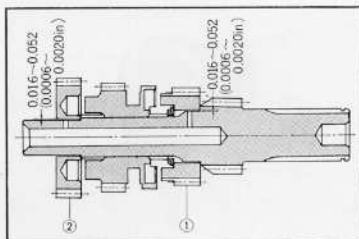


Fig. 3. 99 Main shaft to gear clearance
① Main shaft second gear
② Main shaft top gear

2. Counter shaft to counter shaft gear clearance (Fig. 3. 100)

Item	Standard value	Serviceable limit
Low gear ①	0.016~0.052 mm (0.0006~0.0020 in)	Replace if over 0.1 mm (0.004 in)
Third gear ②	0.016~0.052 mm (0.0006~0.0020 in)	Replace if over 0.1 mm (0.004 in)

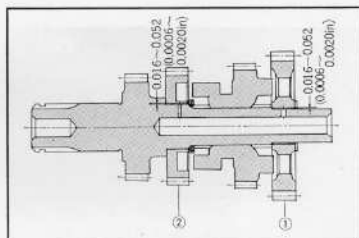


Fig. 3. 100 Counter shaft to gear clearance
① Counter shaft low gear
② Counter shaft third gear

3. Transmission gear backlash

Standard value: 0.084~0.170

0.0034~0.0068 in

Serviceable limit: Replace if over 0.2 mm (0.008 in)

4. Shaft to bearing clearance

Item	Standard value	Serviceable limit
Main shaft to left crankcase	0.016~0.052 mm (0.0006~0.0020 in)	Replace if over 0.13 mm (0.0052 in)
Counter shaft to right crankcase	0.016~0.052 mm (0.0006~0.0020 in)	Replace if over 0.13 mm (0.0052 in)

5. Shift fork to shift drum clearance

Standard value: 0.025~0.075 mm

(0.0010~0.0030 in)

Serviceable limit: 0.15 mm (0.0060 in), replace

6. Bend in shift fork

Standard value: 0.05 mm (0.0020 in)

Serviceable limit: 0.2 mm (0.008 in), replace

7. Shift drum groove (Fig. 3. 101)

Standard value: 6.1~6.2 mm

(0.2401~0.2441 in)

Serviceable limit: Replace if over 6.4 mm (0.256 in)

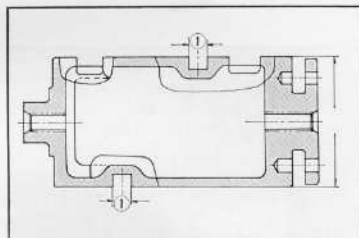


Fig. 3. 101 Shift drum groove
① Shift drum groove