

# MANUAL TRANSMISSION

## SERVICE DATA

SS134-01

Counter 6th gear thrust clearance	STD	0.10 – 0.40 mm (0.0039 – 0.0157 in.)
Counter 6th gear oil clearance	STD	0.015 – 0.068 mm (0.00059 – 0.00027 in.)
Synchronizer ring No. 3 to gear spine end clearance	Min.	0.8 mm (0.031 in.)
Output shaft 1ST gear thrust clearance	STD	0.15 – 0.40 mm (0.0059 – 0.0157 in.)
Output shaft 2nd gear thrust clearance	STD	0.10 – 0.45 mm (0.0039 – 0.0177 in.)
Output shaft radial clearance	STD	0.015 – 0.066 mm (0.00059 – 0.00260 in.)
Synchronizer ring to 1ST and 2nd gear clearance	Inner STD	0.98 – 1.62 mm (0.039 – 0.064 in.)
	Middle STD	0.068 – 1.92 mm (0.027 – 0.076 in.)
	Outer STD	0.88 – 1.72 mm (0.035 – 0.068 in.)
Output shaft 1st gear journal outer diameter	Min.	31.984 – 32.000 mm (1.259 – 1.260 in.)
Output shaft 2nd gear journal outer diameter	Min.	42.984 – 43.000 mm (1.6922 – 1.693 in.)
Output shaft reverse gear journal outer diameter	Min.	40.984 – 41.000 mm (1.6135 – 1.6141 in.)
Output shaft shaft runout	Max.	0.3 mm (0.0012 in.)
1st gear bearing inner race outer diameter	Max.	40.284 – 40.300 mm (1.586 – 1.587 in.)
Hub sleeve No. 1 and No. 3 clearance	STD	7.9 – 8.0 mm (0.311 – 0.315 in.)
	Max.	0.15 – 0.35 mm (0.311 – 0.315 in.)
3rd and 4th gear thrust clearance	STD	0.10 – 0.35 mm (0.0039 – 0.0138 in.)
3rd gear radial clearance	STD	0.015 – 0.068 mm (0.00059 – 0.00268 in.)
4th gear radial clearance	STD	0.065 – 0.115 mm (0.00256 – 0.00453 in.)
Hub sleeve No. 2 clearance	Max.	0.15 – 0.35 mm (0.0059 – 0.138 in.)
Synchronizer ring No. 1 to 3rd gear clearance	STD	0.9 – 1.7 mm (0.0354 – 0.0669 in.)
Counter 3rd gear journal outer diameter	STD	39.284 – 39.300 mm (1.5466 – 1.5472 in.)
Counter 4th gear journal outer diameter	STD	37.984 – 38.000 mm (1.495 – 1.496 in.)
Counter 6th gear journal outer diameter	STD	24.987 – 25.000 mm (0.9837 – 0.9842 in.)
Counter shaft runout	Max.	0.3 mm (0.0012 in.)
3rd gear inner diameter	STD	43.015 – 43.04 mm (1.6935 – 1.6945 in.)
4th gear inner diameter	STD	46.315 – 46.34 mm (1.8234 – 1.8244 in.)
4th gear bearing inner race outer diameter	STD	46.225 – 46.250 mm (1.8199 – 1.8207 in.)
Reverse idler gear radial clearance	STD	0.040 – 0.082 mm (0.00157 – 0.00232 in.)
Reverse idler gear shaft outer diameter	STD	0.04 – 0.082 mm (0.00157 – 0.00323 in.)
Output shaft snap ring thickness Clutch hub No. 4	Mark A Mark B Mark C Mark D Mark E Mark F	2.80 mm (0.1102 in.) 2.85 mm (0.1122 in.) 2.90 mm (0.1142 in.) 2.95 mm (0.1162 in.) 3.00 mm (0.1181 in.) 3.05 mm (0.1201 in.)
Input shaft snap ring thickness Front bearing	Mark 0 Mark 1 Mark 2 Mark 3 Mark 4 Mark 5	1.95 mm (0.077 in.) 2.00 mm (0.079 in.) 2.05 mm (0.081 in.) 2.10 mm (0.083 in.) 2.15 mm (0.085 in.) 2.20 mm (0.087 in.)

Output shaft snap ring thickness Clutch hub No. 3	Mark A Mark B Mark C Mark D Mark E Mark F	1.80 mm (0.0709 in.) 1.85 mm (0.0728 in.) 1.90 mm (0.0748 in.) 1.95 mm (0.0768 in.) 2.00 mm (0.0787 in.) 2.05 mm (0.0807 in.)
Output shaft snap ring thickness Clutch hub No. 3	Mark A Mark B Mark C Mark D Mark E Mark F Mark G Mark H Mark J Mark K Mark L	2.67 mm (0.1051 in.) 2.73 mm (0.1075 in.) 2.79 mm (0.1098 in.) 2.85 mm (0.1122 in.) 2.91 mm (0.1146 in.) 2.97 mm (0.1169 in.) 3.03 mm (0.1192 in.) 3.09 mm (0.1217 in.) 3.15 mm (0.1240 in.) 3.21 mm (0.1263 in.) 3.27 mm (0.1287 in.)
Counter shaft snap ring thickness 4th washer retainer	Mark A Mark B Mark C Mark D Mark E Mark F Mark G Mark H	3.75 mm (0.1476 in.) 3.80 mm (0.1496 in.) 3.85 mm (0.1516 in.) 3.90 mm (0.1535 in.) 3.95 mm (0.1555 in.) 4.00 mm (0.1575 in.) 4.05 mm (0.1594 in.) 4.10 mm (0.1614 in.)
Counter shaft snap ring thickness Clutch hub No. 3	Mark A Mark B Mark C Mark D Mark E Mark F	1.80 mm (0.0709 in.) 1.85 mm (0.0728 in.) 1.90 mm (0.0748 in.) 1.95 mm (0.0768 in.) 2.00 mm (0.0787 in.) 2.05 mm (0.0807 in.)
Counter shaft snap ring thickness Front bearing	Mark 1 Mark 2 Mark 3 Mark 4 Mark 5 Mark 6	2.05 mm (0.081 in.) 2.10 mm (0.083 in.) 2.15 mm (0.085 in.) 2.20 mm (0.087 in.) 2.25 mm (0.886 in.) 2.30 mm (0.0906 in.)
Front bearing retainer oil seal drive in depth		11.5 ± 0.4 mm (0.453 ± 0.016 in.)