MANUAL TRANSMISSION / TRANSAXLE

030OO–01

SERVICE DATA

Oil pump driven rotor to pump cover clearance	STD	0.02 – 0.17 mm (0.0008 – 0.0067 in.)
	Max.	0.17 mm (0.0067 in.)
Oil pump drive to driven rotor tip clearance	STD	0.05 – 0.15 mm (0.0020 – 0.0059 in.)
	Max.	0.15 mm (0.0059 in.)
Reverse gear thrust clearance	STD	0.10 – 0.25 mm (0.0039 – 0.0098 in.)
	Max.	0.25 mm (0.0098 in.)
Reverse gear radial clearance	STD	0.015 – 0.067 mm (0.0006 – 0.0026 in.)
	Max.	0.067 mm (0.0026 in.)
1st gear thrust clearance	STD	0.10 – 0.47 mm (0.0039 – 0.0185 in.)
	Max.	0.47 mm (0.0185 in.)
1st gear gear radial clearance	STD	0.015 – 0.068 mm (0.0006 – 0.0027 in.)
	Max.	0.068 mm (0.0027 in.)
Reverse gear inside diameter	STD	54.015 – 54.040 mm (2.1266 – 2.1276 in.)
	Max.	54.040 mm (2.1276 in.)
1st gear inside diameter	STD	51.515 – 51.540 mm (2.0281 – 2.0291 in.)
	Max.	51.540 mm (2.0291 in.)
Reverse idler gear inside diameter	STD	35.015 – 35.036 mm (1.3785 – 1.3793 in.)
	Max.	35.036 mm (1.3793 in.)
Reverse idler gear shaft outside diameter	STD	27.987 – 28.000 mm (1.1018 – 1.1.23 in.)
	Min.	27.987 mm (1.1018 in.)
Reverse idler gear thrust clearance	STD	0.10 – 0.55 mm (0.0039 – 0.0217 in.)
	Max.	0.55 mm (0.0217 in.)
Reverse idler gear radial clearance	STD	0.015 – 0.059 mm (0.0006 – 0.0023 in.)
	Max.	0.059 mm (0.0023 in.)
Synchronizer ring No. 1 clearance	STD	1.15 – 2.05 mm (0.0452 – 0.0807 in.)
	Min.	1.15 mm (0.0452 in.)
Gear shift fork claw thickness	STD	11.75 – 11.85 mm (0.4625 – 0.4665 in.)
	Min.	11.75 mm (0.4625 in.)
Transmission hub sleeve clearance	STD	12.0 – 12.1 mm (0.4724 – 0.4763 in.)
	Max.	12.1 mm (0.4763 in.)
Output shaft center bearing shaft snap ring thickness	Mark A	2.40 – 2.45 mm (0.0945 – 0.0965 in.)
	Mark B	2.45 – 2.50 mm (0.0965 – 0.0984 in.)
	Mark C	2.50 – 2.55 mm (0.0984 – 0.1004 in.)
	Mark D	2.55 – 2.60 mm (0.1004 – 0.1024 in.)
	Mark E	2.60 – 2.65 mm (0.1024 – 0.1044 in.)
	Mark F	2.65 – 2.70 mm (0.1044 – 0.1063 in.)
	Mark G	2.70 – 2.75 mm (0.1063 – 0.1083 in.)
	Mark H	2.75 – 2.80 mm (0.1083 – 0.1102 in.)
Counter gear snap ring thickness	Mark A	2.40 – 2.45 mm (0.0945 – 0.0965 in.)
	Mark B	2.45 – 2.50 mm (0.0965 – 0.0984 in.)
	Mark C	2.50 – 2.55 mm (0.0984 – 0.1004 in.)
	Mark D	2.55 – 2.60 mm (0.1004 – 0.1024 in.)
	Mark E	2.60 – 2.65 mm (0.1024 – 0.1043 in.)
	Mark F	2.65 – 2.70 mm (0.1043 – 0.1063 in.)
	Mark G	2.70 – 2.75 mm (0.1063 – 0.1083 in.)
Oil seal tap in depth		
Output shaft rear bearing retainer		0 – 0.5 mm (0 – 0.020 in.)
Transmission front bearing retainer		15.4 – 16.2 mm (0.606 – 0.638 in.)
Shift lever shaft		–0.2 – 0.6 mm (–0.008 – 0.024 in.)
Shift lever No. 2 shaft		0 – 1.0 mm (0 – 0.039 in.)
5th gear synchronizer ring clearance	STD	0.80 – 1.60 mm (0.0315 – 0.0630 in.)
	Min.	0.80 mm (0.0315 in.)

Input shaft snap ring thickness	Mark A	2.50 – 2.55 mm (0.0984 – 0.1004 in.)
	Mark B	2.55 – 2.60 mm (0.1004 – 0.1024 in.)
	Mark C	2.60 – 2.65 mm (0.1024 – 0.1044 in.)
	Mark D	2.65 – 2.70 mm (0.1044 – 0.1063 in.)
	Mark E	2.70 – 2.75 mm (0.1063 – 0.1083 in.)
	Mark F	2.75 – 2.80 mm (0.1083 – 0.1102 in.)
Gear thrust clearance		
2nd	STD	0.10 – 0.55 mm (0.0039 – 0.0217 in.)
3rd and 5th	STD	0.10 – 0.35 mm (0.0039 – 0.0138 in.)
Gear radial clearance		
3rd	STD	0.015 – 0.068 mm (0.0006 – 0.0027 in.)
2nd and 5th	STD	0.020 – 0.073 mm (0.0008 – 0.0029 in.)
Output shaft gear journal diameter		
1st gear	Min.	44.484 mm (1.7513 in.)
2nd gear	Min.	49.979 mm (1.9677 in.)
3rd gear	Min.	57.984 mm (2.2828 in.)
5th gear	Min.	37.979 mm (1.4952 in.)
Synchronizer ring No. 2 clearance	STD	1.25 – 2.15 mm (0.0492 – 0.0846 in.)
Synchronizer ring No. 3 clearance	STD	1.23 – 2.13 mm (0.0484 – 0.0839 in.)
2nd gear inside diameter	STD	57.015 – 57.040 mm (2.2447 – 2.2457 in.)
	Max.	57.040 mm (2.2457 in.)
3rd gear inside diameter	STD	65.015 – 65.040 mm (2.5596 – 2.5606 in.)
	Max.	65.040 mm (2.5606 in.)
5th gear inside diameter	STD	44.015 – 44.040 mm (1.7329 – 1.7339 in.)
	Max.	44.040 mm (1.7339 in.)
Output shaft snap ring thickness for clutch hub No. 2	Mark 4	1.90 – 1.95 mm (0.0748 – 0.0768 in.)
	Mark 5	1.95 – 2.00 mm (0.0768 – 0.0787 in.)
	Mark 6	2.00 – 2.05 mm (0.0787 – 0.0807 in.)
	Mark 7	2.05 – 2.10 mm (0.0807 – 0.0827 in.)
	Mark 8	2.10 – 2.15 mm (0.0827 – 0.0847 in.)
	Mark 9	2.15 – 2.20 mm (0.0847 – 0.0866 in.)
Output shaft snap ring thickness for clutch hub No. 1	Mark A	2.90 – 2.95 mm (0.1142 – 0.1161 in.)
	Mark B	2.95 – 3.00 mm (0.1161 – 0.1181 in.)
	Mark C	3.00 – 3.05 mm (0.1181 – 0.1201 in.)
	Mark D	3.05 – 3.10 mm (0.1201 – 0.1220 in.)
	Mark E	3.10 – 3.15 mm (0.1220 – 0.1240 in.)
	Mark F	3.15 – 3.20 mm (0.1240 – 0.1260 in.)
Output shaft snap ring thickness	Mark A	2.40 – 2.45 mm (0.0945 – 0.0965 in.)
	Mark B	2.45 – 2.50 mm (0.0965 – 0.0984 in.)
	Mark C	2.50 – 2.55 mm (0.0984 – 0.1004 in.)
	Mark D	2.55 – 2.60 mm (0.1004 – 0.1024 in.)
	Mark E	2.60 – 2.65 mm (0.1024 – 0.1044 in.)
	Mark F	2.65 – 2.70 mm (0.1044 – 0.1063 in.)
	Mark G	2.70 – 2.75 mm (0.1063 – 0.1083 in.)
	Mark H	2.75 – 2.80 mm (0.1083 – 0.1102 in.)
Counter gear roller bearing journal diameter	STD	35.957 – 35.970 mm (1.4156 – 1.4161 in.)
	Min.	35.957 mm (1.4156 in.)
Counter gear front bearing snap ring thickness	Mark A	2.45 – 2.50 mm (0.0970 – 0.0984 in.)
	Mark B	2.50 – 2.55 mm (0.0984 – 0.1004 in.)
	Mark C	2.55 – 2.60 mm (0.1004 – 0.1024 in.)
	Mark D	2.60 – 2.65 mm (0.1024 – 0.1044 in.)
	Mark E	2.65 – 2.70 mm (0.1044 – 0.1063 in.)
	Mark F	2.70 – 2.75 mm (0.1063 – 0.1083 in.)
Shift lever shaft plug tap in depth		1.7 – 2.5 mm (0.067 – 0.098 in.)