MANUAL TRANSMISSION / TRANSAXLE

03141–01

SERVICE DATA

Manual transmission assy		
Counter shaft 5th gear thrust clearance	STD	0.10 – 0.35 mm (0.0039 – 0.0138 in.)
Counter shaft 5th gear radial clearance	STD	0.015 – 0.068 mm (0.0059 – 0.0027 in.)
Counter shaft 5th gear inne diameter	STD	38.015 – 38.040 mm (1.4967 – 1.4976 in.)
	Max	38.040 mm (1.4976 in.)
Counter gear rear shaft snap ring		0.1 mm (0.0039 in.) or less
Counter gear rear shaft snap ring thickness	A	2.80 – 2.85 mm (0.1102 – 0.1122 in)
	B	2.85 – 2.90 mm (0.1122 – 0.1141 in)
	C	2.90 – 2.95 mm (0.1141 – 0.1160 in)
	D	2.95 – 3.00 mm (0.1160 – 0.1181 in)
	E	3.00 – 3.05 mm (0.1181 – 0.1200 in)
	F	3.05 – 3.10 mm (0.1200 – 0.1220 in)
	G	3.10 – 3.15 mm (0.1220 – 0.1240 in)
Reverse idler gear radial clearance	STD	0.040 – 0.082 mm (0.0016 – 0.0032 in.)
Reverse idler gear clearance	STD	0.05 – 0.35 mm (0.0020 – 0.0138 in.)
Reverse idler gear diameter	STD	24.040 – 24.061 mm (0.9465 – 0.9473 in.)
	Max	24.061 mm (0.9473 in.)
Reverse idler gear shaft outer diameter	STD	23.979 – 24.000 mm (0.9441 – 0.9449 in.)
	Max	23.979 mm (0.9441 in.)
Synchronizer ring No.3 clearance		0.68 – 1.32 mm (0.0268 – 0.0520 in.)
Transmission hub sleeve clearance		0.26 – 0.84 mm (0.0102 – 0.0331 in.)
Output shaft bearing shaft snap ring thickness	A	2.65 – 2.70 mm (0.1043 – 0.1063 in)
	B	2.70 – 2.75 mm (0.1063 – 0.1083 in)
	C	2.75 – 2.80 mm (0.1083 – 0.1102 in)
	D	2.80 – 2.85 mm (0.1102 – 0.1122 in)
	E	2.85 – 2.90 mm (0.1122 – 0.1141 in)
	F	2.90 – 2.95 mm (0.1141 – 0.1160 in)
	G	2.95 – 3.00 mm (0.1160 – 0.1181 in)
	H	3.00 – 3.05 mm (0.1181 – 0.1200 in)
	J	3.05 – 3.10 mm (0.1200 – 0.1220 in)
	K	3.10 – 3.15 mm (0.1220 – 0.1240 in)
	L	3.15 – 3.20 mm (0.1240 – 0.1260 in)
	M	3.20 – 3.25 mm (0.1260 – 0.1280 in)
	N	3.25 – 3.30 mm (0.1280 – 0.1299 in)
	P	3.30 – 3.35 mm (0.1299 – 0.1319 in)
	Q	3.35 – 3.40 mm (0.1319 – 0.1339 in)
	R	3.40 – 3.45 mm (0.1339 – 0.1358 in)
	S	3.45 – 3.50 mm (0.1358 – 0.1378 in)
Transmission front bearing retainer oil seal depth		11.2 – 12.2 mm (0.4409 – 0.4803 in.)
Transfer adapter oil seal depth		45.4 – 46.4 mm (1.787 – 1.827 in.)

Input shaft assy		
Synchronizer ring No.2 clearance		0.70 – 1.70 mm (0.0276 – 0.0669 in.)
Input shaft shim clearance		0.1 mm (0.0039 in.) or less
Front bearing shaft snap ring thickness	A	2.10 – 2.15 mm (0.0827 – 0.0846 in)
	B	2.15 – 2.20 mm (0.0847 – 0.0866 in)
	C	2.20 – 2.25 mm (0.0866 – 0.0886 in)
	D	2.25 – 2.30 mm (0.0886 – 0.0906 in)
	E	2.30 – 2.35 mm (0.0906 – 0.0925 in)
	F	2.35 – 2.40 mm (0.0925 – 0.0945 in)
	G	2.40 – 2.45 mm (0.0945 – 0.0965 in)

Output shaft assy	
1st gear thrust clearance	0.20 – 0.45 mm (0.0079 – 0.0177 in.)
2nd gear thrust clearance	0.10 – 0.25 mm (0.0039 – 0.0098 in.)
3rd gear thrust clearance	0.10 – 0.25 mm (0.0039 – 0.0098 in.)

1st gear radial clearance		0.020 – 0.073 mm (0.0008 – 0.0029 in.)
2nd gear radial clearance		0.015 – 0.068 mm (0.0006 – 0.0027 in.)
3rd gear radial clearance		0.015 – 0.068 mm (0.0006 – 0.0027 in.)
Output shaft outer diameter	STD: Part A	38.979 – 38.995 mm (1.5334 – 1.5352 in.)
	Part B	46.984 – 47.000 mm (1.8498 – 1.8504 in.)
	Part C	37.984 – 38.000 mm (1.4954 – 1.4961 in.)
	Min: Part A	38.979 mm (1.5334 in.)
	Part B	46.984 mm (1.8498 in.)
	Part C	37.984 mm (1.4954 in.)
Output shaft flange thickness	STD	4.80 – 5.20 mm (0.1890 – 0.2047 in.)
Output shaft run out	Max	0.03 mm (0.0012 in.)
3rd gear inner diameter	STD	44.015 – 44.040 mm (1.7329 – 1.7339 in.)
	Max	44.040 mm (1.7339 in.)
2nd gear inner diameter	STD	53.015 – 53.040 mm (2.0872 – 2.0881 in.)
	Max	53.040 (2.0881 in.)
Synchronizer ring No.1 (For 1st synchronizer ring) clearance		0.65 – 1.75 mm (0.0256 – 0.0689 in.)
Synchronizer ring No.1 (For 2nd synchronizer ring) clearance		0.65 – 1.75 mm (0.0256 – 0.0689 in.)
Synchronizer ring No.1 clearance		0.65 – 1.75 mm (0.0256 – 0.0689 in.)
Reverse gear clearance	STD	0.15 – 0.41 mm (0.0059 – 0.0161 in.)
Transmission hub sleeve No.2		0.15 – 0.35 mm (0.0059 – 0.0138 in.)
1st gear inside diameter	STD	46.015 – 46.040 mm (1.812 – 1.8126 in.)
	Max	46.040 mm (1.8126 in.)
Clutch hub shaft snap ring thickness	A	1.80 – 1.85 mm (0.0709 – 0.0728 in.)
	B	1.85 – 1.90 mm (0.0728 – 0.0748 in.)
	C	1.90 – 1.95 mm (0.0748 – 0.0768 in.)
	D	1.95 – 2.00 mm (0.0768 – 0.0787 in.)
	E	2.00 – 2.05 mm (0.0787 – 0.0807 in.)
	F	2.05 – 2.10 mm (0.0807 – 0.0827 in.)
	G	2.10 – 2.15 mm (0.0827 – 0.0846 in.)
Transmission clutch hub No.1		0.1 mm (0.039 in.) or less
Output shaft bearing shaft snap ring	A	2.30 – 2.35 mm (0.0906 – 0.0925 in.)
	B	2.35 – 2.40 mm (0.0925 – 0.0945 in.)
	C	2.40 – 2.45 mm (0.0945 – 0.0965 in.)
	D	2.45 – 2.50 mm (0.0965 – 0.0984 in.)
	E	2.50 – 2.55 mm (0.0984 – 0.1004 in.)
	F	2.55 – 2.60 mm (0.1004 – 0.1024 in.)
	G	2.60 – 2.65 mm (0.1024 – 0.1043 in.)
Transmission clutch hub No.2		0.1 mm (0.039 in.) or less

Counter gear assy		
Counter gear journal outer diameter	STD	29.984 – 30.000 mm (1.1805 – 1.1811 in.)
	Min	29.984 mm (1.1805 in.)
Counter gear front bearing snap ring No.2		0.1 mm (0.0039 in.) or less
Counter gear front bearing snap ring No.2 thickness	A	2.05 – 2.10 mm (0.0807 – 0.0827 in.)
	B	2.10 – 2.15 mm (0.0827 – 0.0846 in.)
	C	2.15 – 2.20 mm (0.0846 – 0.0866 in.)
	D	2.20 – 2.25 mm (0.0866 – 0.0886 in.)
	E	2.25 – 2.30 mm (0.0886 – 0.0906 in.)
	F	2.30 – 2.35 mm (0.0906 – 0.0925 in.)