MANUAL TRANSMISSION (R151F)

SS0RJ–02

SERVICE DATA

Output shaft 1st gear journal diameter	Min.	38.979 mm (1.5346 in.)
Output shaft 2nd gear journal diameter	Min.	46.984 mm (1.8498 in.)
Output shaft 3rd gear journal diameter	Min.	37.984 mm (1.4954 in.)
Output shaft flange thickness	Min.	4.80 mm (0.1890 in.)
Output shaft runout	Max.	0.03 mm (0.0012 in.)
Gear thrust clearance 1st	STD	0.20 – 0.45 mm (0.0078 – 0.0177 in.)
	Max.	0.45 mm (0.0177 in.)
Gear thrust clearance 2nd	STD	0.10 – 0.25 mm (0.0039 – 0.0098 in.)
	Max.	0.25 mm (0.0098 in.)
Gear thrust clearance 3rd	STD	0.10 – 0.25 mm (0.0039 – 0.0098 in.)
	Max.	0.25 mm (0.0098 in.)
Gear radial clearance 1st	STD	0.020 – 0.073 mm (0.0008 – 0.0029 in.)
	Max.	0.073 mm (0.0029 in.)
Gear radial clearance 2nd	STD	0.015 – 0.068 mm (0.0006 – 0.0027 in.)
	Max.	0.068 mm (0.0027 in.)
Gear radial clearance 3rd	STD	0.015 – 0.068 mm (0.0006 – 0.0027 in.)
	Max.	0.068 mm (0.0027 in.)
Shift fork No. 1 to reverse gear clearance	Max.	0.41 mm (0.016 in.)
Shift fork No. 2 to hub sleeve No. 2 clearance	Max.	0.35 mm (0.014 in.)
Shift fork No. 3 to hub sleeve No. 3 clearance	Max.	0.84 mm (0.033 in.)
Synchronizer ring to gear clearance		
Input shaft	Min.	0.70 mm (0.028 in.)
3rd gear	Min.	0.75 mm (0.030 in.)
1st and 2nd gear	Min.	0.65 mm (0.026 in.)
Input shaft snap ring thickness		
	Mark A	2.10 – 2.15 mm (0.0827 – 0.0846 in.)
	Mark B	2.15 – 2.20 mm (0.0846 – 0.0866 in.)
	Mark C	2.20 – 2.25 mm (0.0866 – 0.0886 in.)
	Mark D	2.25 – 2.30 mm (0.0886 – 0.0906 in.)
	Mark E	2.30 – 2.35 mm (0.0906 – 0.0925 in.)
	Mark F	2.35 – 2.40 mm (0.0925 – 0.0945 in.)
	Mark G	2.40 – 2.45 mm (0.0945 – 0.0965 in.)
Output shaft snap ring thickness		
Clutch hub No.1	Mark A	2.30 – 2.35 mm (0.0906 – 0.0925 in.)
	Mark B	2.35 – 2.40 mm (0.0925 – 0.0945 in.)
	Mark C	2.40 – 2.45 mm (0.0945 – 0.0965 in.)
	Mark D	2.45 – 2.50 mm (0.0965 – 0.0984 in.)
	Mark E	2.50 – 2.55 mm (0.0984 – 0.1004 in.)
	Mark F	2.55 – 2.60 mm (0.1004 – 0.1024 in.)
	Mark G	2.60 – 2.65 mm (0.1024 – 0.1043 in.)

Output shaft snap ring thickness		
Clutch hub No.2	Mark A	1.80 – 1.85 mm (0.0709 – 0.0728 in.)
	Mark B	1.85 – 1.90 mm (0.0728 – 0.0748 in.)
	Mark C	1.90 – 1.95 mm (0.0748 – 0.0768 in.)
	Mark D	1.95 – 2.00 mm (0.0768 – 0.0787 in.)
	Mark E	2.00 – 2.05 mm (0.0787 – 0.0807 in.)
	Mark F	2.05 – 2.10 mm (0.0807 – 0.0827 in.)
	Mark G	2.10 – 2.15 mm (0.0827 – 0.0846 in.)
Output shaft snap ring thickness		
Rear	Mark A	2.65 – 2.70 mm (0.1043 – 0.1063 in.)
	Mark B	2.70 – 2.75 mm (0.1063 – 0.1083 in.)
	Mark C	2.75 – 2.80 mm (0.1083 – 0.1102 in.)
	Mark D	2.80 – 2.85 mm (0.1102 – 0.1122 in.)
	Mark E	2.85 – 2.90 mm (0.1122 – 0.1142 in.)
	Mark F	2.90 – 2.95 mm (0.1142 – 0.1161 in.)
	Mark G	2.95 – 3.00 mm (0.1161 – 0.1181 in.)
	Mark H	3.00 – 3.05 mm (0.1181 – 0.1201 in.)
	Mark J	3.05 – 3.10 mm (0.1201 – 0.1220 in.)
	Mark K	3.10 – 3.15 mm (0.1220 – 0.1240 in.)
	Mark L	3.15 – 3.20 mm (0.1240 – 0.1260 in.)
	Mark M	3.20 – 3.25 mm (0.1260 – 0.1280 in.)
	Mark N	3.25 – 3.30 mm (0.1280 – 0.1299 in.)
	Mark P	3.30 – 3.35 mm (0.1299 – 0.1319 in.)
	Mark Q	3.35 – 3.40 mm (0.1319 – 0.1339 in.)
	Mark R	3.40 – 3.45 mm (0.1339 – 0.1358 in.)
	Mark S	3.45 – 3.50 mm (0.1358 – 0.1378 in.)
Counter gear roller bearing journal diameter	Min.	29.984 mm (1.1805 in.)
Counter 5th gear thrust clearance	STD	0.10 – 0.35 mm (0.0039 – 0.0138 in.)
	Max.	0.35 mm (0.0138 in.)
Counter 5th radial clearance	STD	0.015 – 0.068 mm (0.0006 – 0.0027 in.)
	Max.	0.068 mm (0.0027 in.)
Reverse idler gear radial clearance	STD	0.040 – 0.082 mm (0.0016 – 0.0032 in.)
	Max.	0.082 mm (0.0032 in.)
Reverse idler gear to shift arm clearance	STD	0.05 – 0.35 mm (0.0020 – 0.0138 in.)
	Max.	0.35 mm (0.0138 in.)
Counter gear snap ring thickness		
Front	Mark A	2.05 – 2.10 mm (0.0807 – 0.0827 in.)
	Mark B	2.10 – 2.15 mm (0.0827 – 0.0846 in.)
	Mark C	2.15 – 2.20 mm (0.0846 – 0.0866 in.)
	Mark D	2.20 – 2.25 mm (0.0866 – 0.0886 in.)
	Mark E	2.25 – 2.30 mm (0.0886 – 0.0906 in.)
	Mark F	2.30 – 2.35 mm (0.0906 – 0.0925 in.)
Counter gear snap ring thickness		
Rear	Mark A	2.80 – 2.85 mm (0.1102 – 0.1122 in.)
	Mark B	2.85 – 2.90 mm (0.1122 – 0.1142 in.)
	Mark C	2.90 – 2.95 mm (0.1142 – 0.1161 in.)
	Mark D	2.95 – 3.00 mm (0.1161 – 0.1181 in.)
	Mark E	3.00 – 3.05 mm (0.1181 – 0.1201 in.)
	Mark F	3.05 – 3.10 mm (0.1201 – 0.1220 in.)
	Mark G	3.10 – 3.15 mm (0.1220 – 0.1240 in.)
Oil seal drive in depth		
Front bearing retainer (from retainer end)		11.7 ± 0.5 mm (0.461 ± 0.020 in.)