MANUAL TRANSMISSION (H151F)

SS0RH–01

SERVICE DATA

Output shaft 1st gear journal diameter	Min.	49.979 mm (1.9677 in.)
Output shaft 2nd gear journal diameter	Min.	57.984 mm (2.2828 in.)
Output shaft 3rd gear journal diameter	Min.	37.979 mm (1.4952 in.)
Output shaft 5th gear journal diameter	Min.	45.984 mm (1.8104 in.)
Output shaft flange thickness	Min.	4.725 mm (0.1860 in.)
Output shaft runout	Max.	0.03 mm (0.0012 in.)
Gear thrust clearance 1st and 3rd	STD	0.10 – 0.45 mm (0.0039 – 0.0177 in.)
	Max.	0.45 mm (0.0177 in.)
Gear thrust clearance 2nd and 5th	STD	0.10 – 0.35 mm (0.0039 – 0.0138 in.)
	Max.	0.35 mm (0.0138 in.)
Gear radial clearance 1st and 3rd	STD	0.020 – 0.073 mm (0.0008 – 0.0029 in.)
	Max.	0.073 mm (0.0029 in.)
Gear radial clearance 2nd and 5th	STD	0.015 – 0.068 mm (0.0006 – 0.0027 in.)
	Max.	0.068 mm (0.0027 in.)
Shift fork to hub sleeve clearance	Max.	0.35 mm (0.0138 in.)
Synchronizer ring to gear clearance (Input Shaft)	Min.	0.8 mm (0.0315 in.)
Synchronizer ring to gear clearance (Output Shaft)		
1st gear	Min.	1.25 mm (0.0492 in.)
2nd gear	Min.	1.23 mm (0.0484 in.)
3rd gear	Min.	1.15 mm (0.0453 in.)
5th gear	Min.	0.8 mm (0.0315 in.)
Reverse gear	Min.	0.9 mm (0.0354 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.)
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.)
Output shaft snap ring thickness		
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 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 Clutch hub No.3 and No.4	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.)
Counter gear roller bearing journal diameter	STD	35.959 – 35.970 mm (1.4156 – 1.4161 in.)
	Max.	35.970 mm (1.4161 in.)
Reverse gear thrust clearance	STD	0.15 – 0.52 mm (0.005 – 0.020 in.)
	Max.	0.52 mm (0.020 in.)
Counter gear snap ring thickness		
	Mark A	2.45 – 2.50 mm (0.0965 – 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.)
Reverse idler gear radial clearance	STD	0.015 – 0.059 mm (0.0006 – 0.0023 in.)
	Max.	0.059 mm (0.0023 in.)
Oil seal drive in depth Front bearing retainer		15.4 – 16.2 mm (0.606 – 0.638 in.)
Oil pump driven rotor to pump cover clearance	STD	0.075 – 0.170 mm (0.0030 – 0.0067 in.)
	Max.	0.170 mm (0.0067 in.)
Oil pump drive to driven rotor tip clearance	STD	0.10 – 0.22 mm (0.0039 – 0.0087 in.)
	Max.	0.22 mm (0.0087 in.)