MANUAL TRANSMISSION / TRANSAXLE

030ZD–03

SERVICE DATA

Output shaft journal diameter		
1st gear	Min.	57.975 mm (2.2825 in.)
2nd gear	Min.	53.975 mm (2.1250 in.)
3rd gear	Min.	46.975 mm (1.8494 in.)
5th gear	Min.	36.975 mm (1.4557 in.)
Output shaft flange thickness	Max.	4.85 mm (0.1909 in.)
Output shaft runout	Max.	0.05 mm (0.0020 in.)
Reverse gear inside diameter	Max.	53.975 mm (2.1250 in.)
Counter gear roller bearing journal diameter	Min.	36.957 mm (1.4550 in.)
Gear thrust clearance		
1st & 2nd	STD	0.10 – 0.35 mm (0.0039 – 0.0138 in.)
3rd	STD	0.10 – 0.60 mm (0.0039 – 0.0238 in.)
5th	STD	0.10 – 0.50 mm (0.0039 – 0.0197 in.)
Reverse	STD	0.15 – 0.40 mm (0.0059 – 0.0157 in.)
Reverse idler	STD	0.10 – 0.50 mm (0.0038 – 0.0197 in.)
Gear oil clearance		
1st	STD	0.030 – 0.075 mm (0.0012 – 0.0030 in.)
2nd & Reverse	STD	0.030 – 0.081 mm (0.0012 – 0.0032 in.)
3rd & 5th	STD	0.015 – 0.066 mm (0.0006 – 0.0026 in.)
Reverse idler gear	STD	0.015 – 0.059 mm (0.0006 – 0.0026 in.)
Shift fork to hub sleeve clearance	Max.	0.35 mm (0.014 in.)
Synchronizer ring to gear clearance		
1st	Min.	1.1 – 1.9 mm (0.043 – 0.075 in.)
2nd and 3rd	Min.	0.82 – 1.78 mm (0.0323 – 0.0701 in.)
4th and 5th	Min.	0.8 – 1.6 mm (0.031 – 0.063 in.)
Oil seal drive in depth		
Front bearing retainer	(14B)	15.0 – 15.8 mm (0.590 – 0.622 in.)
	(W04D–J)	15.3 – 16.1 mm (0.602 – 0.634 in.)
Rear bearing retainer		0.1 – 0.9 mm (0.004 – 0.035 in.)
Speedometer driven gear		19.7 – 20.3 mm (0.776 – 0.799 in.)
Select outer lever		0 – 1.0 mm (0 – 0.039 in.)
Shift outer lever		–0.2 – 0.6 mm (–0.008 – 0.024 in.)
Interlock pin hole plug drive in depth	.	0.3 – 1.3 mm (0.012 – 0.051 in.)
No.2 shift lever tight plug drive in depth	.	1.7 – 2.5 mm (0.067 – 0.098 in.)
Input shaft snap ring thickness	Mark	
	2	2.50 – 2.55 mm (0.0984 – 0.1004 in.)
	3	2.55 – 2.60 mm (0.1004 – 0.1024 in.)
	4	2.60 – 2.65 mm (0.1024 – 0.1043 in.)
	5	2.65 – 2.70 mm (0.1043 – 0.1063 in.)
	6	2.70 – 2.75 mm (0.1063 – 0.1083 in.)
	7	2.75 – 2.80 mm (0.1083 – 0.1102 in.)
Output shaft snap ring thickness	Mark	
No.2 clutch hub	2	1.90 – 1.95 mm (0.0748 – 0.0768 in.)
	3	1.95 – 2.00 mm (0.0768 – 0.0787 in.)
	4	2.00 – 2.05 mm (0.0787 – 0.0807 in.)
	5	2.05 – 2.10 mm (0.0807 – 0.0827 in.)
	6	2.10 – 2.15 mm (0.0827 – 0.0846 in.)
	7	2.15 – 2.20 mm (0.0846 – 0.0866 in.)

3rd gear	Mark	
	A	2.90 – 2.95 mm (0.1142 – 0.1161 in.)
	B	2.95 – 3.00 mm (0.1161 – 0.1181 in.)
	C	3.00 – 3.05 mm (0.1181 – 0.1201 in.)
	D	3.05 – 3.10 mm (0.1201 – 0.1220 in.)
	E	3.10 – 3.15 mm (0.1220 – 0.1240 in.)
No.3 clutch hub	Mark	
	4	1.90 – 1.95 mm (0.0748 – 0.0768 in.)
	5	1.95 – 2.00 mm (0.0768 – 0.0787 in.)
	6	2.00 – 2.05 mm (0.0787 – 0.0807 in.)
	7	2.05 – 2.10 mm (0.0807 – 0.0827 in.)
	8	2.10 – 2.15 mm (0.0827 – 0.0846 in.)
	9	2.15 – 2.20 mm (0.0846 – 0.0866 in.)
Counter gear snap ring thickness	Mark	
	0	1.95 – 2.00 mm (0.0768 – 0.0787 in.)
	1	2.00 – 2.05 mm (0.0787 – 0.0807 in.)
	2	2.05 – 2.10 mm (0.0807 – 0.0827 in.)
	3	2.10 – 2.15 mm (0.0827 – 0.0846 in.)
	4	2.15 – 2.20 mm (0.0846 – 0.0866 in.)
	5	2.20 – 2.25 mm (0.0866 – 0.0886 in.)