

SERVICE SPECIFICATIONS

SERVICE DATA

MX000-04

Input shaft		
Roller bearing journal diameter		
	Limit	29.970 mm (1.1799 in.)
3rd gear journal diameter		
	Limit	33.090 mm (1.3028 in.)
4th gear journal diameter		
	Limit	32.470 mm (1.2783 in.)
5th gear journal diameter		
	Limit	26.970 mm (1.0618 in.)
Runout		
	Limit	0.05 mm (0.0020 in.)
Output shaft		
Roller bearing journal diameter		
	Limit	31.970 mm (1.2587 in.)
1 st gear journal diameter		
	Limit	37.970 mm (1.4949 in.)
2nd gear journal diameter		
	Limit	31.990 mm (1.2594 in.)
Runout		
	Limit	0.05 mm (0.0020 in.)
Gear thrust clearance 1 st		
	STD	0.10–0.29 mm (0.0039–0.0114 in.)
	Limit	0.35 mm (0.0138 in.)
Gear thrust clearance 2nd		
	STD	0.20–0.44 mm (0.0079–0.0173 in.)
	Limit	0.50 mm (0.0197 in.)
Gear thrust clearance 3rd		
	STD	0.10–0.25 mm (0.0039–0.0098 in.)
	Limit	0.30 mm (0.0118 in.)
Gear thrust clearance 4th		
	STD	0.20–0.45 mm (0.0079–0.0177 in.)
	Limit	0.50 mm (0.0197 in.)
Gear thrust clearance 5th		
	STD	0.20–0.40 mm (0.0079–0.0157 in.)
	Limit	0.45 mm (0.0177 in.)
Gear oil clearance 1 st, 2nd, 3rd and 4th		
	STD	0.009–0.053 mm (0.0004–0.0021 in.)
	Limit	0.070 mm (0.0028 in.)
Gear oil clearance 5th		
	STD	0.009–0.050 mm (0.0004–0.0020 in.)
	Limit	0.070 mm (0.0028 in.)
Shift fork to hub sleeve clearance		
	Limit	1.0 mm (0.039 in.)
Synchronizer ring to gear clearance 1 st, 3rd and 4th		
	Limit	0.6 mm (0.024 in.)

Synchronizer ring to gear clearance 2nd		
	Limit	0.7 mm (0.028 in.)
Input shaft snap ring thickness		
No.2 clutch hub	Mark 1	1.95–2.00 mm (0.0768–0.0787 in.)
No.2 clutch hub	Mark 2	2.00–2.05 mm (0.0787–0.0807 in.)
No.2 clutch hub	Mark 3	2.05–2.10 mm (0.0807–0.0827 in.)
No.2 clutch hub	Mark 4	2.10–2.15 mm (0.0827–0.0846 in.)
No.2 clutch hub	Mark 5	2.15–2.20 mm (0.0846–0.0866 in.)
No.2 clutch hub	Mark 6	2.20–2.25 mm (0.0866–0.0886 in.)
No.3 clutch hub	Mark 13	2.20–2.25 mm (0.0886–0.0886 in.)
No.3 clutch hub	Mark 14	2.25–2.30 mm (0.0886–0.0906 in.)
No.3 clutch hub	Mark 15	2.30–2.35 mm (0.0906–0.0925 in.)
No.3 clutch hub	Mark 16	2.35–2.40 mm (0.0925–0.0945 in.)
No.3 clutch hub	Mark 17	2.40–2.45 mm (0.0945–0.0965 in.)
No.3 clutch hub	Mark 18	2.45–2.50 mm (0.0965–0.0984 in.)
No.3 clutch hub	Mark 19	2.50–2.55 mm (0.0984–0.1004 in.)
No.3 clutch hub	Mark 20	2.55–2.60 mm (0.1004–0.1024 in.)
No.3 clutch hub	Mark 21	2.60–2.65 mm (0.1024–0.1043 in.)
No.3 clutch hub	Mark 22	2.65–2.70 mm (0.1043–0.1063 in.)
No.3 clutch hub	Mark 23	2.70–2.75 mm (0.1063–0.1083 in.)
No.3 clutch hub	Mark 24	2.75–2.80 mm (0.1083–0.1102 in.)
No.3 clutch hub	Mark 25	2.80–2.85 mm (0.1102–0.1122 in.)
No.3 clutch hub	Mark 26	2.85–2.90 mm (0.1122–0.1142 in.)
No.3 clutch hub	Mark 27	2.90 – 2.95 mm (0.1142 – 0.1161 in.)
Rear bearing		
	Mark A	2.15–2.20 mm (0.0846–0.0866 in.)
	Mark B	2.20–2.25 mm (0.0866–0.0886 in.)
	Mark C	2.25–2.30 mm (0.0886–0.0906 in.)
	Mark D	2.30–2.35 mm (0.0906–0.0925 in.)
	Mark E	2.35–2.40 mm (0.0925–0.0945 in.)
Differential side bearing adjusting shim thickness		
	Mark 1	1.90 mm (0.0748 in.)
	Mark 2	1.95 mm (0.0768 in.)
	Mark 3	2.00 mm (0.0787 in.)
	Mark 4	2.05 mm (0.0807 in.)
	Mark 5	2.10 mm (0.0827 in.)
	Mark 6	2.15 mm (0.0846 in.)
	Mark 7	2.20 mm (0.0866 in.)
	Mark 8	2.25 mm (0.0886 in.)
	Mark 9	2.30 mm (0.0906 in.)
	Mark 10	2.35 mm (0.0925 in.)
	Mark 11	2.40 mm (0.0945 in.)
	Mark 12	2.45 mm (0.0965 in.)
	Mark 13	2.50 mm (0.0984 in.)
	Mark 14	2.55 mm (0.1004 in.)
	Mark 15	2.60 mm (0.1024 in.)
	Mark 16	2.65 mm (0.1043 in.)
	Mark 17	2.70 mm (0.1063 in.)

Mark 18	2.75 mm (0.1083 in.)
Mark 19	2.80 mm (0.1102 in.)
Shift lever preload adjusting shim thickness	
Mark A	0.5 mm (0.020 in.)
Mark B	0.6 mm (0.024 in.)
Mark C	0.7 mm (0.028 in.)
Mark D	0.8 mm (0.031 in.)
Mark E	0.9 mm (0.035 in.)
Mark F	1.0 mm (0.039 in.)
Mark G	1.1 mm (0.043 in.)
Mark H	1.2 mm (0.047 in.)
Mark J	1.3 mm (0.051 in.)
Mark K	1.4 mm (0.055 in.)
Mark L	1.5 mm (0.059 in.)
Mark M	1.6 mm (0.063 in.)
Mark N	1.7 mm (0.067 in.)
Differential case side bearing preload (at starting)	0.8–1.6 N·m (8–16 kgf·cm, 6.9–13.9 in.-lbf)
Differential pinion to side gear backlash	0.05–0.20 mm (0.0020–0.0079 in.)
Differential side gear thrust washer thickness	
None Mark	0.95 mm (0.0374 in.)
None Mark	1.00 mm (0.0394 in.)
None Mark	1.05 mm (0.0413 in.)
None Mark	1.10 mm (0.0433 in.)
None Mark	1.15 mm (0.0453 in.)
None Mark	1.20 mm (0.0472 in.)

TORQUE SPECIFICATIONS

Part tightened	N·m	kgf-cm	ft-lbf
Transmission case x Transaxle case	29	300	22
Transmission case x Case cover	29	300	22
Transmission case protector	18	185	13
Rear bearing retainer	42	430	31
Output shaft front bearing lock plate	18	185	13
Input shaft oil receiver	7.4	75	65 in.-lbf
5th driven gear lock nut	123	1,250	90
Reverse idler shaft lock bolt	29	300	22
Control shaft cover	37	375	27.
Control shift lever x lever shaft	6.4	65	543 in.-lbf
Ring gear x Differential case	90	920	67
Selecting bellcrank x Transmission case	37	380	27
Reverse shift arm bracket	18	185	13
No.3 shift fork x Shift fork shaft	18	185	13
No. 1 lock ball assembly	37	375	27
No.2 lock ball assembly	23	230	17
Filler plug	49	500	36
Drain plug	49	500	38
Back-up light switch	44	450	33
Side bearing retainer	18	185	13
Clutch release bearing retainer	7.4	75	65 in.-lbf
Straight screw plug (Shift fork shaft)	13	130	9
Straight screw plug (Reverse restrict pin)	13	130	9
Transaxle x Engine (12mm bolt)	64	650	47
Transaxle x Engine (10mm bolt)	46	470	34
Center crossmember x Body	52	530	38
Center crossmember x Engine Mounting	73	740	54
Engine left mounting set bolt	63	650	47
Front exhaust pipe (Bolt)	43	440	32
Front exhaust pipe (Nut)	62	630	46
Lower crossmember x Body	152	1,550	112
Earth cable set bolt	21	210	15
Engine mounting left stay set bolt	21	210	15