SERVICE SPECIFICATIONS

SERVICE DATA

MT052-02

Output shaft			
1st gear journal diameter	Limit	57.975 mm	2.2825 in.
2nd gear journal diameter	Limit	53.975 mm	2.1250 in.
3rd gear journal diameter	Limit	46.975 mm	1.8494 in.
5th gear journal diameter	Limit	36.975 mm	1.4557 in.
Reverse gear inner race diameter	Limit	53.975 mm	2.1250 in.
Flange thickness	Limit	4.825 mm	0.1900 in.
Runout	Limit	0.05 mm	0.0020 in.
Counter gear			
Roller bearing journal diameter	Limit	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 — 0.0236 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	0.0039 — 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	Limit	0.35 mm	0.014 in.
Synchronizer ring to gear clearance			
1st	Limit	1.1 mm	0.043 in.
2nd and 3rd	Limit	0.82 mm	0.0323 in.
5th	Limit	0.8 mm	0.031 in.
Oil seal drive in depth	Front bearing retainer	15.0 — 15.8 mm	0.591 — 0.622 in.
	Rear bearing retainer	0.1 — 0.9 mm	0.004 — 0.035 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			
No.2 clutch hub	Mark		
	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.
	F	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.

MT030–02

TORQUE SPECIFICATIONS

Part tightened	N·m	kgf·cm	ft·lbf
Shift outer lever set nut	20	200	15
Select outer lever set nut	7.8	80	69 in.·lbf
Magnet x Front case	12	120	9
Oil receiver x Rear case	25	260	19
Shift fork x Shift fork shaft	34	350	25
Rear bearing retainer x Rear case	34	350	25
Front case x Rear case	37	380	27
Front bearing retainer x Front case	17	170	12
Shift lever shaft housing x Front case	17	170	12
Power take–off cover x Front case	14	145	11
Clutch housing x Front case	37	380	27
Speed sensor x Rear bearing retainer	8	115	11
Back–up light switch	44	450	33
Neutral switch	39	400	29
Parking brake x Rear bearing retainer	47	475	34
Parking brake lock nut	127	1,300	94
Transmission x Engine	72	730	53
Engine rear mounting x Transmission	42	430	31
Crossmember x Body	50	510	37
Engine rear mounting x Crossmember	13	130	9
Stiffener plate x Engine (1HZ Engine)	69	700	51
Stiffener plate x Engine (3B and 14B Engine)	69	700	51
Stiffener plate x Transmission (1HZ Engine)	69	700	51
Stiffener plate x Transmission (3B and 14B Engine)	37	380	27
Front exhaust pipe x Exhaust manifold	62	630	46
Exhaust retarder x Exhaust pipe	39	400	29
Exhaust pipe bracket x Transmission	39	400	29
Exhaust pipe clamp bolt	19	195	14
Cross shaft x Body	18	185	13
Cross shaft x Transmission	36	370	27
Control link x Outer lever	15	150	11
Starter x Transmission	39	400	29
Clutch release cylinder x Transmission	12	120	9
Air guide x Transmission	24	240	17