

SERVICE SPECIFICATIONS

SERVICE DATA

Output shaft 1st gear journal diameter		
	Limit	38.860 mm (1.5299 in.)
Output shaft 2nd gear journal diameter		
	Limit	46.860 mm (1.8449 in.)
Output shaft 3rd gear journal diameter		
	Limit	37.860 mm (1.4905 in.)
Output shaft flange thickness		
	Limit	4.70 mm (0.1850 in.)
Output shaft runout		
	Limit	0.06 mm (0.0024 in.)
Gear thrust clearance 1st		
	STD	0.10 – 0.45 mm (0.0039 – 0.0177 in.)
	Limit	0.50 mm (0.0197 in.)
Gear thrust clearance 2nd		
	STD	0.10 – 0.25 mm (0.0039 – 0.0098 in.)
	Limit	0.30 mm (0.0118 in.)
Gear thrust clearance 3rd		
	STD	0.10 – 0.25 mm (0.0039 – 0.0098 in.)
	Limit	0.30 mm (0.0118 in.)
Gear radial clearance 1st		
	STD	0.020 – 0.073 mm (0.0008–0.0029 in.)
	Limit	0.16 mm (0.0063 in.)
Gear radial clearance 2nd		
	STD	0.015 – 0.068 mm(0.0006–0.0027 in.)
	Limit	0.16 mm (0.0063 in.)
Gear radial clearance 3rd		
	STD	0.015 – 0.068 mm (0.0006–0.0027 in.)
	Limit	0.16 mm (0.0063 in.)
Shift fork to hub sleeve clearance		
	Limit	1.0 mm (0.039 in.)
Synchronizer ring to gear clearance		
	Limit	0.6 mm (0.024 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.)
Clutch hub No.1	Mark B	2.35 – 2.40 mm (0.0925 – 0.0945 in.)
Clutch hub No.1	Mark C	2.40 – 2.45 mm (0.0945 – 0.0965 in.)
Clutch hub No.1	Mark D	2.45 – 2.50 mm (0.0965 – 0.0984 in.)
Clutch hub No.1	Mark E	2.50 – 2.55 mm (0.0984 – 0.1004 in.)

Clutch hub No.1	Mark F	2.55 – 2.60 mm (0.1004 – 0.1024 in.)
Clutch hub No.1	Mark G	2.60 – 2.65 mm (0.1024 – 0.1043 in.)
Clutch hub No.2	Mark A	1.80 – 1.85 mm (0.0709 – 0.0728 in.)
Clutch hub No.2	Mark B	1.85 – 1.90 mm (0.0728 – 0.0748 in.)
Clutch hub No.2	Mark C	1.90 – 1.95 mm (0.0748 – 0.0768 in.)
Clutch hub No.2	Mark D	1.95 – 2.00 mm (0.0768 – 0.0787 in.)
Clutch hub No.2	Mark E	2.00 – 2.05 mm (0.0787 – 0.0807 in.)
Clutch hub No.2	Mark F	2.05 – 2.10 mm (0.0807 – 0.0827 in.)
Clutch hub No.1	Mark G	2.10 – 2.15 mm (0.0827 – 0.0846 in.)
Rear	Mark A	2.65 – 2.70 mm (0.1043 – 0.1063 in.)
Rear	Mark B	2.70 – 2.75 mm (0.1063 – 0.1083 in.)
Rear	Mark C	2.75 – 2.80 mm (0.1083 – 0.1102 in.)
Rear	Mark D	2.80 – 2.85 mm (0.1102 – 0.1122 in.)
Rear	Mark E	2.85 – 2.90 mm (0.1122 – 0.1142 in.)
Rear	Mark F	2.90 – 2.95 mm (0.1142 – 0.1161 in.)
Rear	Mark G	2.95 – 3.00 mm (0.1161 – 0.1181 in.)
Rear	Mark H	3.00 – 3.05 mm (0.1181 – 0.1201 in.)
Rear	Mark J	3.05 – 3.10 mm (0.1201 – 0.1220 in.)
Rear	Mark K	3.10 – 3.15 mm (0.1220 – 0.1240 in.)
Rear	Mark L	3.15 – 3.20 mm (0.1240 – 0.1260 in.)
Rear	Mark M	3.20 – 3.25 mm (0.1260 – 0.1280 in.)
Rear	Mark N	3.25 – 3.30 mm (0.1280 – 0.1299 in.)
Rear	Mark P	3.30 – 3.35 mm (0.1299 – 0.1319 in.)
Rear	Mark Q	3.35 – 3.40 mm (0.1319 – 0.1339 in.)
Rear	Mark R	3.40 – 3.45 mm (0.1339 – 0.1358 in.)
Rear	Mark S	3.45 – 3.50 mm (0.1358 – 0.1378 in.)
Counter gear roller bearing journal diameter		
	Limit	27.860 mm (1.0968 in.)
Counter 5th gear thrust clearance		
	STD	0.10 – 0.35 mm (0.0039 – 0.0138 in.)
	Limit	0.40 mm (0.0157 in.)
Counter 5th radial clearance		
	STD	0.015 – 0.068 mm (0.0006 – 0.0027 in.)
	Limit	0.16 mm (0.0063 in.)
Reverse idler gear radial clearance		
	STD	0.040 – 0.082 mm (0.0016 – 0.0032 in.)
	Limit	0.13 mm (0.0051 in.)
Reverse idler gear to shift arm shoe clearance		
	STD	0.05 – 0.25 mm (0.0020 – 0.0098 in.)
	Limit	0.5 mm (0.0197 in.)
Counter gear snap ring thickness		
	Mark A	2.00 – 2.05 mm (0.0787 – 0.0807 in.)
	Mark B	2.05 – 2.10 mm (0.0807 – 0.0827 in.)
	Mark C	2.10 – 2.15 mm (0.0827 – 0.0846 in.)
	Mark D	2.15 – 2.20 mm (0.0846 – 0.0866 in.)
	Mark E	2.20 – 2.25 mm (0.0866 – 0.0886 in.)
Front bearing retainer oil seal drive in depth		11.2 – 12.2 mm (0.441 – 0.480 in.)

TORQUE SPECIFICATIONS

Part tightened		N·m	kgf·cm	ft·lbf
Reverse shift arm set bolt		18	185	13
Rear bearing retainer x Intermediate plate		18	185	13
Counter gear rear lock nut		127	1,300	94
Shift fork x Shift fork shaft		20	200	14
Straight screw plug		19	190	14
Front bearing retainer x Transmission case		17	170	12
Transmission case x Extension housing (2WD)		37	380	27
Transmission case x Transfer adaptor (4WD)		37	380	27
Shift lever housing set bolt		38	390	28
Clutch housing x Transmission case		36	370	27
Oil receive x Extension housing		11	115	8
Back-up light switch		37	380	27
Restrict pin		37	380	27
Shift lever retainer x Extension housing (2WD)		16	160	12
Shift lever retainer x Transfer adaptor (4WD)		18	185	13
Vehicle speed sensor set bolt		11	115	8
Transmission x Engine		72	730	53
Engine rear mounting x Transmission		25	260	19
Engine rear mounting bracket x Support member (2WD)		59	590	43
Engine rear mounting bracket x Engine rear mounting (2WD)		29	300	22
Propeller shaft upper dust cover set bolt (4WD)		37	380	27
Propeller shaft upper dust cover x Bracket (4WD)		23	230	17
Dynamic damper set bolt (4WD)		37	380	27
Frame auxiliary crossmember x body		95	970	70
Engine rear mounting x Crossmember		13	130	9
Stabilizer bracket set bolt		29	300	22
Differential carrier cover set bolt (4WD)	To frame	147	1,500	108
	Others	167	1,700	123
Stiffener plate x Transmission		37	380	27
Front exhaust pipe x Exhaust manifold		62	630	46
Front exhaust pipe x Rear exhaust pipe		39	400	29
Exhaust pipe bracket x Transmission		39	400	29
Exhaust pipe clamp bolt		19	195	14
Starter x Transmission		39	400	29
Clutch release cylinder x Transmission		12	120	9
Propeller shaft dust cover (4WD)	Bolt A	36	370	27
	Bolt B	23	230	17