

# SERVICE SPECIFICATIONS

## SERVICE DATA

Output shaft 2nd gear journal diameter	Min	37.984 mm (1.4954 in.)
Output shaft 3rd gear journal diameter	Min	34.984 mm (1.3773 in.)
Output shaft flange thickness	Min	4.80 mm (0.1890 in.)
Output shaft runout	Max	0.05 mm (0.0020 in.)
Inner race flange thickness	Min	3.99 mm (0.1571 in.)
Inner race outer diameter	Min	38.985 mm (1.5348 in.)
Gear thrust clearance 1st	STD	0.10–0.25 mm (0.0039–0.0098 in.)
	Max	0.25 mm (0.0098 in.)
Gear thrust clearance 2nd	STD	0.10–0.25 mm (0.0039–0.0098 in.)
	Max	0.25 mm (0.0098 in.)
Gear thrust clearance 3rd	STD	0.10–0.25 mm (0.0039–0.0098 in.)
	Max	0.25 mm (0.0098 in.)
Gear radial clearance 1st	STD	0.009–0.032 mm (0.0004–0.0013 in.)
	Max	0.032 mm (0.0013 in.)
Gear radial clearance 2nd	STD	0.009–0.032 mm (0.0004–0.0013 in.)
	Max	0.032 mm (0.0013 in.)
Gear radial clearance 3rd	STD	0.009–0.032 mm (0.0004–0.0013 in.)
	Max	0.032 mm (0.0013 in.)
Shift fork to hub sleeve clearance	Max	1.0 mm (0.039 in.)
Synchronizer ring to gear clearance	Min	0.8 mm (0.031 in.)
Input shaft snap ring thickness	Mark 0	2.05–2.10 mm (0.0807–0.0827 in.)
	Mark 1	2.10–2.15 mm (0.0827–0.0846 in.)
	Mark 2	2.15–2.20 mm (0.0846–0.0866 in.)
	Mark 3	2.20–2.25 mm (0.0866–0.0886 in.)
	Mark 4	2.25–2.30 mm (0.0886–0.0906 in.)
	Mark 5	2.30–2.35 mm (0.0906–0.0925 in.)
Output shaft snap ring thickness Front	Mark C–1	1.75–1.80 mm (0.0689–0.0709 in.)
	Mark D	1.80–1.85 mm (0.0709–0.0728 in.)
	Mark D–1	1.85–1.90 mm (0.0728–0.0748 in.)
	Mark E	1.90–1.95 mm (0.0748–0.0768 in.)
	Mark E–1	1.95–2.00 mm (0.0768–0.0787 in.)
	Mark F	2.00–2.05 mm (0.0787–0.0807 in.)
	Mark F–1	2.05–2.10 mm (0.0807–0.0827 in.)
	Mark A	2.67–2.72 mm (0.1051–0.1071 in.)
	Mark B	2.73–2.78 mm (0.1075–0.1094 in.)
	Mark C	2.79–2.84 mm (0.1098–0.1118 in.)
	Mark D	2.85–2.90 mm (0.1122–0.1142 in.)
	Mark E	2.91–2.96 mm (0.1146–0.1165 in.)
	Mark F	2.97–3.02 mm (0.1169–0.1189 in.)
	Mark G	3.03–3.08 mm (0.1193–0.1213 in.)
	Mark H	3.09–3.14 mm (0.1217–0.1236 in.)
	Mark J	3.15–3.20 mm (0.1240–0.1260 in.)
	Mark K	3.21–3.26 mm (0.1264–0.1283 in.)
	Mark L	3.27–3.32 mm (0.1287–0.1307 in.)
Rear		

Counter gear needle roller bearing race diameter	<b>STD</b>	<b>25.98–26.00 mm (1.0228–1.0236 in.)</b>
	<b>Min</b>	<b>25.86 mm (1.0181 in.)</b>
Counter 5th gear thrust clearance	<b>STD</b>	<b>0.10–0.30 mm (0.0039–0.0118 in.)</b>
	<b>Max</b>	<b>0.30 mm (0.0118 in.)</b>
Counter 5th gear radial clearance	<b>STD</b>	<b>0.009–0.032 mm (0.0004–0.0013 in.)</b>
	<b>Max</b>	<b>0.032 mm (0.0013 in.)</b>
Reverse idler gear radial clearance	<b>STD</b>	<b>0.04–0.08 mm (0.0016–0.0031 in.)</b>
	<b>Max</b>	<b>0.13 mm (0.0051 in.)</b>
Reverse idler gear to shift arm shoe clearance	<b>STD</b>	<b>0.05–0.27 mm (0.0020–0.0106 in.)</b>
	<b>Max</b>	<b>0.50 mm (0.0197 in.)</b>
Counter gear snap ring thickness Front bearing           Gear spline piece No.5	<b>Mark 1</b>	<b>2.05–2.10 mm (0.0807–0.0827 in.)</b>
	<b>Mark 2</b>	<b>2.10–2.15 mm (0.0827–0.0846 in.)</b>
	<b>Mark 3</b>	<b>2.15–2.20 mm (0.0846–0.0866 in.)</b>
	<b>Mark 4</b>	<b>2.20–2.25 mm (0.0866–0.0886 in.)</b>
	<b>Mark 5</b>	<b>2.25–2.30 mm (0.0886–0.0906 in.)</b>
	<b>Mark 6</b>	<b>2.30–2.35 mm (0.0906–0.0925 in.)</b>
	<b>Mark A</b>	<b>2.80–2.85 mm (0.110–0.112 in.)</b>
	<b>Mark B</b>	<b>2.85–2.90 mm (0.112–0.114 in.)</b>
	<b>Mark C</b>	<b>2.90–2.95 mm (0.114–0.116 in.)</b>
	<b>Mark D</b>	<b>2.95–3.00 mm (0.116–0.118 in.)</b>
	<b>Mark E</b>	<b>3.00–3.05 mm (0.118–0.120 in.)</b>
	<b>Mark F</b>	<b>3.05–3.10 mm (0.120–0.122 in.)</b>
	<b>Mark G</b>	<b>3.10–3.15 mm (0.122–0.124 in.)</b>
Front bearing retainer oil seal drive in depth		<b>12.2–13.2 mm (0.480–0.520 in.)</b>
Breather hose depth		<b>13 mm (0.51 in.)</b>

## TORQUE SPECIFICATIONS

Part tightened	N·m	kgf·cm	ft·lbf	
Straight screw plug	19	190	14	
Front bearing retainer x Transmission case	17	170	12	
Rear bearing retainer x Intermediate plate	18	185	13	
Reverse shift arm bracket	18	185	13	
Shift fork x Shift fork shaft	20	200	14	
Back-up light switch	37	380	27	
Reverse idler gear shaft stopper bolt	17	175	13	
Clutch housing x Transmission case	37	380	27	
Transfer adaptor x Intermediate plate	37	380	27	
Shift lever housing bolt	38	390	28	
Transfer adaptor plug	37	380	27	
Restrict pin	27	280	20	
Transmission shift lever control retainer x Transfer adaptor	18	185	13	
Transfer shift lever control retainer x Transfer adaptor	18	185	13	
Oil receiver x Transfer adaptor	13	130	9	
Filler and drain plugs	37	380	27	
Propeller shaft upper dust cover set bolt	37	380	27	
Propeller shaft upper dust cover x Bracket	23	230	17	
Engine rear mounting x Transmission	25	260	19	
Dynamic damper set bolt	37	380	27	
Transmission x Engine	72	730	53	
Stiffener plate x Transmission	37	380	27	
Starter x Transmission	39	400	29	
Frame crossmember x Body	95	970	70	
Engine rear mounting x Crossmember	13	130	9	
Stabilizer bracket set bolt	29	300	22	
Front exhaust pipe x Exhaust manifold	62	630	46	
Exhaust pipe bracket x Clutch housing	Upper Bolt Rear Bolt	19 69	195 700	14 51
Exhaust pipe clamp bolt	19	195	14	
Clutch line bracket x Starter lower mounting bolt	39	400	29	
Clutch release cylinder x Transmission	12	120	9	
Propeller shaft dust cover	Bolt A Bolt B	36 23	370 230	27 17