MANUAL TRANSMISSION (G40 and G52)

Specifications

Output shaft			
2nd gear journal diameter	Limit	37.984 mm	1.4954 in.
3rd gear journal diameter	Limit	34.984 mm	1.3773 in.
Flange thickness	Limit	4.80 mm	0.1890 in.
Runout	Limit	0.05 mm	0.0020 in.
Inner race flange thickness	Limit	3.99 mm	0.1571 in.
Inner race outer diameter	Limit	38.985 mm	1.5348 in.
Gear thrust clearance			
1st, 2nd & 3rd	STD	0.10 — 0.25 mm	0.0039 — 0.0098 in.
	Limit	0.25 mm	0.0098 in.
Counter 5th	STD	0.10 — 0.30 mm	0.0039 — 0.0118 in.
	Limit	0.30 mm	0.0118 in.
Gear oil clearance			
1st	STD	0.009 — 0.032 mm	0.0004 — 0.0013 in.
	Limit	0.032 mm	0.0013 in.
2nd & 3rd	STD	0.009 — 0.033 mm	0.0004 — 0.0013 in.
	Limit	0.33 mm	0.0013 in.
5th	STD	0.009 — 0.032 mm	0.0004 — 0.0013 in.
	Limit	0.032 mm	0.0013 in.
Reverse	STD	0.04 — 0.08 mm	0.0016 — 0.0031 in.
	Limit	0.13 mm	0.0051 in.
Shift fork to hub sleeve clearance	Limit	1.0 mm	0.039 in.
Synchronizer ring to gear clearance	STD	1.0 — 2.0 mm	0.039 — 0.079 in.
	Limit	0.8 mm	0.031 in.
Front bearing retainer oil seal			
Drive in depth		12.2 — 13.2 mm	0.480 — 0.520 in.
Input shaft synchronizer ring to gear clearance	STD	1.0 — 2.0 mm	0.040 — 0.079 in.
	Limit	0.8 mm	0.031 in.
Counter gear outer diameter of needle roller bearing race			
	STD	25.98 — 26.00 mm	1.0228 — 1.0236 in.
	Limit	25.86 mm	1.0181 in.
Reverse idler gear to shift arm shoe clearance	STD	0.05 — 0.27 mm	0.0020 — 0.0106 in.
	Limit	0.5 mm	0.197 in.
Input shaft snap ring thickness	Mark		
	0	2.05 — 2.10 mm	0.0807 — 0.0827 in.
	1	2.10 — 2.15 mm	0.0827 — 0.0846 in.
	2	2.15 — 2.20 mm	0.0846 — 0.0866 in.
	3	2.20 — 2.25 mm	0.0866 — 0.0886 in.
	4	2.25 — 2.30 mm	0.0886 — 0.0906 in.
	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.
	D	1.80 — 1.85 mm	0.0709 — 0.0728 in.
	D-1	1.85 — 1.90 mm	0.0728 — 0.0748 in.
	E	1.90 — 1.95 mm	0.0748 — 0.0768 in.
	E-1	1.95 — 2.00 mm	0.0768 — 0.0787 in.
	F	2.00 — 2.05 mm	0.0787 — 0.0807 in.
	F-1	2.05 — 2.10 mm	0.0807 — 0.0827 in.

Specifications (Cont'd)

Output shaft snap ring thickness (cont'd)			
Rear	Mark		
	A	2.67 – 2.72 mm	0.1051 – 0.1071 in.
	B	2.73 – 2.78 mm	0.1075 – 0.1094 in.
	C	2.79 – 2.84 mm	0.1098 – 0.1118 in.
	D	2.85 – 2.90 mm	0.1122 – 0.1142 in.
	E	2.91 – 2.96 mm	0.1146 – 0.1165 in.
	F	2.97 – 3.02 mm	0.1169 – 0.1189 in.
	G	3.03 – 3.08 mm	0.1193 – 0.1213 in.
	H	3.09 – 3.14 mm	0.1217 – 0.1236 in.
	J	3.15 – 3.20 mm	0.1240 – 0.1260 in.
	K	3.21 – 3.26 mm	0.1264 – 0.1283 in.
	L	3.27 – 3.32 mm	0.1287 – 0.1307 in.
Counter gear snap ring			
Front bearing	Mark		
	1	2.05 – 2.10 mm	0.0807 – 0.0827 in.
	2	2.10 – 2.15 mm	0.0827 – 0.0846 in.
	3	2.15 – 2.20 mm	0.0846 – 0.0866 in.
	4	2.20 – 2.25 mm	0.0866 – 0.0886 in.
	5	2.25 – 2.30 mm	0.0886 – 0.0906 in.
	6	2.30 – 2.35 mm	0.0906 – 0.0925 in.
Gear spline piece No.5	Mark		
	A	2.80 – 2.85 mm	0.1102 – 0.1122 in.
	B	2.85 – 2.90 mm	0.1122 – 0.1142 in.
	C	2.90 – 2.95 mm	0.1142 – 0.1161 in.
	D	2.95 – 3.00 mm	0.1161 – 0.1181 in.
	E	3.00 – 3.05 mm	0.1181 – 0.1201 in.
	F	3.05 – 3.10 mm	0.1201 – 0.1220 in.
	G	3.10 – 3.15 mm	0.1220 – 0.1240 in.

Torque Specifications

Part tightened	kg-cm	ft-lb	N·m
Straight screw plug	190	14	19
Transfer adaptor × Transmission case	380	27	37
Restrict pin	280	20	27
Shift lever retainer × Extension housing	185	13	18
Back-up light switch	380	27	37
Front bearing retainer × Transmission case	170	12	17
Rear bearing retainer × Intermediate plate	185	13	18
Reverse shift arm bracket	185	13	18
Reverse idler gear shaft stopper bolt	175	13	17
Clutch housing × Transmission case	380	27	37
Shift lever housing bolt	390	28	38
Shift fork × Fork shaft	200	14	20
Oil receiver × Extension housing	115	8	11
Oil receiver × Transfer adaptor	130	9	13