

# Torque Specifications

## On Type 2



Below are the torque specs for 1968 - 1979 Type 2. If you know of any prior to 1967, please let me [know](#). For 2.0 Liter engine see [Torque Specs Type 4](#)

**These charts are in Foot-pounds (LB FT), Newton Meter (Nm) and Meter Kilograms (mkg)**

### 1968 - 1979

#### Engine (Single Carb 1600cc)

Torque Wrench settings	LB FT	Nm	mkg
Connecting rod screws	24	32.5	3.3
Crankcase screws M8 (halves)	14	19.0	2.0
Crankcase screws M12 (halves)	25	33.8	3.5
Cylinder head nuts	23	31.2	3.2
Rocker shaft to Cylinder head nuts	18	24.4	2.5
Heat Exchangers on cylinder head	14	19.0	2.0
Muffler clamps	7	9.5	1.0
Intake manifold to cylinder head (M6)	14	19.0	2.0
Intake manifold to cylinder head (M8)	14	19.0	2.0
Preheating pipe flange bolts	7	9.5	1.0
Oil pump nuts	14	19.0	2.0
Oil drain plug	25	33.8	3.5
Oil strainer cover nuts	5	6.7	0.7

Oil cooler to crankcase	5	6.7	0.7
Oil filler and breather to generator stand	40	54.2	5.5
Flywheel gland nuts	253	343.0	35.0
Clutch to Flywheel bolt	18	24.4	2.5
Spark Plugs	25	33.8	3.5
Engine to Transmission nut	22	29.8	3.0
Engine bearer to crankcase (M8)	18	24.4	2.5
Engine bearer to crankcase (M10)	29	39.3	4.0
Engine bearer to Engine bearer mounting (M10)	29	39.3	4.0
Generator Pulley	43	58.3	6.0
Special nut for Fan (M12)	43	58.3	6.0
Crankshaft Pulley bolt	32	43.4	4.5
Engine bearer mounting to Body nut	18	24.4	2.5

### Engine

(Dual Carburetor and Fuel injection 1700,1800, and 2000cc)

Torque Wrench settings	LB FT	Nm	mkg
Connecting rod screws	24	32.5	3.3
Crankcase nut M8 (halves)	14	19.0	2.0
Crankcase nut M10 (halves)	25	33.8	3.5
Cylinder head nuts	23	31.2	3.2
Rocker shaft to Cylinder head nuts	10	13.6	1.4
Heat Exchangers on cylinder head	16	21.7	2.2
Muffler to Heat Exchangers nut	14	19.0	2.0
Oil drain plug	16	21.7	2.2
Oil strainer cover nuts	5	6.7	0.7
Oil pan cover to crankcase	9	12.2	1.3
Drive plate to crankshaft screw	65	88.1	9.0
Hub to crankshaft bolt	23		3.2
Fan to hub screw	14	19.0	2.0
Oil filler and breather to generator stand	40	54.2	5.5

Extension shaft with pulley to fan bolt	14	19.0	2.0
Spark Plugs	22	29.8	3.0
Engine to Transmission nut	22	29.8	3.0
Engine bearer support to crankcase (M8)	22	29.8	3.0
Boned rubber mounting to support / Engine bearer nut	14	19.0	2.0
Engine bearer to Engine bearer mounting nut	14	19.0	2.0
Engine bearer mounting to Body nut	14	19.0	2.0
Oil pump to crankcase nut	14	19.0	2.0
Oil cooler to crankcase nut	5	6.7	0.7
Flywheel to crankshaft bolt	80	108.5	11.0
Clutch to Flywheel bolt	18	24.4	2.5
Torque converter to drive plate bolt	14	19.0	2.0

### Front Axle

<b>Torque Wrench settings</b>	<b>LB FT</b>	<b>Nm</b>	<b>mkg</b>
Front Axle to frame bolt	65 - 90	88.1 - 122.0	9.0 - 12.5
Upper Shock absorber mounting nut	36	48.8	5.0
Lower Shock absorber mounting nut	18 - 25	24.4 - 33.8	2.5 - 3.5
Ball joints to steering knuckle (use new nuts in place of the ones that were removed)	72	97.6	10
Clamp screw for wheel bearing clamp nut	11 - 14 MAX	14.9 - 19.0 MAX	1.5 - 2.0 MAX
Tie rods and drag link M10 (castellated) nut	18	24.4	2.5
Tie rods and drag link M12 (castellated) nut	22	29.8	3.0
Clamps for tie rods and drag link (nut/bolt)	11	14.9	1.5
Steering damper to relay lever bolt	29 - 32	39.3 - 43.4	4.0 - 4.5
Steering damper to axle tube bolt	29 - 32	39.3 - 43.4	4.0 - 4.5

Setscrew for torsion bar	29	39.3	4.0
Locknut for setscrew	29	39.3	4.0
Stabilizer bar to torsion bar nut (M8)	18	24.4	2.5
Stabilizer bar to torsion bar nut (M10)	25 - 36	33.8 - 48.8	3.5 - 5.0
<b>Steering (up to July 1972)</b>			
Steering gear to side member bolt	25 - 36	33.8 - 48.8	3.5 - 5.0
Drop arm to shaft nut	58 - 80	78.6 - 108.5	8.0 - 11.0
Relay lever to shaft bolt	43	58.3	6.0
Steering wheel to column nut	18 - 22	24.4 - 29.8	2.5 - 3.0
Flange to steering worm nut	14	19.0	2.0
Coupling disc to flange (castellated) nut	11	14.9	1.5
Steering column to floor plate screw	3.5	4.7	0.5
Steering gear case cover bolt	18	24.4	2.5
Steering gear end cover bolt	11	14.9	1.5
<b>Steering (from August 1973)</b>			
Drop arm to shaft nut	101	136.9	14.0
Locknut for adjuster	36 - 43	48.8 - 58.3	5.0 - 6.0
Steering wheel to column nut (1973 and 1974 models)	18 - 22	24.4 - 29.8	2.5 - 3.0
Steering wheel to column nut (1975 and later models)	36	48.8	5.0

### Transmission and Rear Axle

<b>Torque Wrench settings</b>	<b>LB FT</b>	<b>Nm</b>	<b>mkg</b>
Gears/housing nut	160	216.9	22.0
Round nut/pinion	145	196.6	20.0
Union nut/sleeve	22	29.8	3.0
Bracket/reverse shifter shaft on gear carrier bolt	18	24.4	2.5
Support/rocket lever on	18	24.4	2.5

gear carrier bolt			
Selector shaft/fork bolt	18	24.4	2.5
Locking screw with dog point bolt	11	14.9	1.5
Clamp sleeve on gear carrier	32	43.4	4.5
Shift housing to gear carrier	11	14.9	1.5
Nuts for gear carrier, side cover, transmission, and clutch housing	14	19.0	2.0
Ring Gear to differential housing bolt	36	48.8	5.0
Lockplate/adjusting ring screw	7	9.5	1.0
Diagonal arm to rear wheel bearing housing bolt	94	127.4	13.0
Diagonal arm to frame bolt	58	78.6	8.0
Shock absorber to frame and rear wheel bearing housing bolt	43	58.3	6.0
Drive shaft/flange screw	25	33.8	3.5
Cover/spring plate bushing bolt	32	43.4	4.5
Backing plate to housing (M8) bolt	18	24.4	2.5
Backing plate to housing (M10) bolt	25	33.8	3.5
Rear wheel hub to rear wheel shaft (castellated) nut	253	343.0	35
Gearshift lever bracket to floor bolt	14	19.0	2.0
Transmission to transmission carrier bolt	25	33.8	3.5
Engine bearer to bearer brackets bolt	18	24.4	2.5
Clutch cable guide tube bracket to transmission case nut	14	19.0	2.0
Front transmission mount support to transmission nut	18	24.4	2.5
Engine bearer bracket to frame bolt	25	33.8	3.5
Front transmission mount	25	33.8	3.5

support to mount support bolt			
Clutch release bearing guide sleeve to bell housing nut	11	14.9	1.5
Pinion bearing retainer to transmission case (special) nut	22	29.8	3.0
Limiting stop on cross tube bolt	33	44.7	4.5
Relay Shaft bracket on gear carrier (special) bolt	14	19.0	2.0

### Automatic Transmission

<b>Torque Wrench settings</b>	<b>LB FT</b>	<b>Nm</b>	<b>mkg</b>
ATF pump to transmission case bolt	2.8	3.8	0.4
Transfer plate on valve body screw	2.1	2.8	0.3
Valve body to transmission case bolt	2.8	3.8	0.4
Valve body to transmission case screw	2.5	3.4	0.35
Pan to transmission case bolt	7.0	9.5	1.0
ATF strainer to valve body screw	2.1	2.8	0.3
Manual valve lever/cable lever nut	4.3	5.8	0.6
Cable lever to transmission case screw	3.5	4.7	0.5
Operating lever on transmission case threaded pin	4.3	5.8	0.6
Cable bracket on transmission case bolt	11.0	14.9	1.5
Filler tube on transmission case bolt	3.5	4.7	0.5
Plug for pressure connection/ transmission case	7.0	9.5	1.0
Vacuum unit/ transmission case	18	24.4	2.5
Lock nut for band adjusting	14	19.0	2.0

screw			
Air deflector on final drive housing bolt	7.0	9.5	1.0
Differential carrier on final drive housing nut	6.0	8.1	0.8
Side Cover/ final drive housing	6.0	8.1	0.8
Starter/ final drive housing nut	18	24.4	2.5
Bearing cap/ differential carrier bolt	43	58.3	6.0
Ring gear/ differential housing bolt	36	48.8	5.0
Transmission case/ final drive housing nut	14	19.0	2.0
Torque converter to drive plate bolts	18	24.4	2.5
Drive shaft/ flange screw	25	33.8	3.5
Engine/ transmission mounting nuts and bolts	22	29.8	3.0
Transmission/ transmission carrier bolt	25	33.8	3.5
Front transmission mount limiting stop to bonded rubber mounting bolt	33	44.7	4.5
Bonded rubber mounting to transmission case nut	18	24.4	2.5
Selector lever cable clamp nut	7.0	9.5	1.0

### Brakes

Torque Wrench settings	LB FT	Nm	mkg
<b>Master Cylinder</b>			
Stop screw in housing	3.5 - 7.0	4.7 - 9.5	0.5 - 1.0
Residual pressure valve on housing	14	19.0	2.0
Brake light switch to housing	14	19.0	2.0
Master Cylinder to frame bolts	18	24.4	2.5
Brake line to master cylinder union nut	11 - 14	14.9 - 19.0	1.5 - 2.0
Push rod (locknut for	11 - 14	14.9 - 19.0	1.5 -

clevis)			2.0
Master Cylinder on frame bolts (1968 - 1970)	18	24.4	2.5
Master cylinder to servo nut (1971 on)	9.4 Max	12.7 MAX	1.3 Max
<b>Front Wheel Brakes</b>			
Wheel cylinder and backing plate on steering knuckle bolt (1968 - 1970)	40 - 43	54.2 - 58.3	5.5 - 6.0
Caliper to steering knuckle (M12) (1971 - 1972) bolt	72	97.6	10.0
Caliper to steering knuckle (M14) (1973 on) bolt	116	157.3	16.0
Bleeder Valve in cylinder/ caliper	3.5 Max	4.7 MAX	0.5 Max
Hose to cylinder/ caliper	11 - 14	14.9 - 19.0	1.5 - 2.0
Screw for clamp nut	11 - 14 Max	14.9 - 19.0 MAX	1.5 - 2.0 Max
Brake Disc to wheel hub	14 - 18	19.0 - 24.4	2.0 - 2.5
Splash shield to steering knuckle bolt	7	9.5	1.0
Brake caliper halves bolt	25	33.8	3.5
<b>Rear Wheel Brakes</b>			
Backing plate on bearing housing/ wheel cylinder bolt (M8)	14 - 22	19.0 - 29.8	2.0 - 3.0
Backing plate on bearing housing/ wheel cylinder bolt (M10)	22 - 29	29.8 - 39.3	3.0 - 4.0
Cover to bearing housing bolt	43	58.3	6.0
Brake drum/ rear wheel hub to shaft (castellated) nut	253	343.0	35.0
Brake drum to wheel hub bolt	7 - 13	9.5 - 17.6	1.0 - 1.8
<b>Wheels</b>			
Wheel to drum/disc (1968 - 1970) bolt	94	127.4	13.0
Wheel to drum/disc (1971 and later) Nut	94	127.4	13.0
<b>Pedals</b>			

Brake pedal on pin bolt	22 - 29	29.8 - 39.3	3.0 - 4.0
Brake pedal to pushrod bolt	14	19.0	2.0
Clutch pedal on pin nut	18	24.4	2.5
Support/ Clutch pedal on frame bolt	14	19.0	2.0
<b>Brake servo</b>			
Brake servo on front axle nut	9.4 Max	12.7 MAX	1.3 Max
<b>Brake proportioning valve</b>			
Proportioning valve on side member bolt	11	14.9	1.5
Output adaptor in regulator	14 - 16	19.0 - 21.7	2.0 - 2.2

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