

Torque Specifications

On Type 1

Below are the torque specs for 1966 - 1979 Type 1. If you know of any prior to 1965, please let me [know](#)

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

1966 - 1969

Engine (1300cc and 1500cc)

Transmission and Rear Axle

Brakes

1970 - 1979

Engine

Fuel injection

Transmission and Rear Axle

Front Axle

Front Strut Suspension

Automatic Transmission

1966 - 1969

Engine (1300cc and 1500cc)

Torque Wrench settings	LB FT	Nm	mkg
Spark Plugs	25	33.8	3.5
Special nut for Fan	43	58.3	6.0
Nut for Small pulley	43	58.3	6.0
Bolt for Large pulley	33	44.7	4.5
Oil pump nuts	14		2.0
Oil drain plug	33	44.7	4.5
Sealing nut for Oil strainer cover	5	6.7	0.7
Rocker shaft standard nuts	18	24.4	2.5

Cylinder head nuts	23	31.2	3.2
Flywheel Bolts	217	294.2	30.0
Crankcase nuts and M8 bolts	14	19.0	2.0
Crankcase nuts and M12 or M10 bolts	25	33.8	3.5
Connecting rod nuts or bolts	24	32.5	3.3
Bolts for Clutch	18	24.4	2.5
Engine mounting nuts	22	29.8	3.0
Bolts for Torque converter	22	29.8	3.0

Transmission and Rear Axle

Torque Wrench settings	LB FT	Nm	mkg
Transmission and Rear Axle (fully synchronized) all Types			
Drive pinion round nut (Double Ball bearing)	87	118.0	12.0
Drive pinion round nut (Double tamper roller bearing)	144	195.2	20.0
Pinion bearing retainer bolt	36	48.8	5.0
Pinion nut	43*	58.3*	6.0*
Drive shaft nut	43*	58.3*	6.0*
Reverse lever guide bolt	14	19.0	2.0
Selector fork bolt	18	24.4	2.5
Nuts for gearshift housing	11	14.9	1.5
Ring gear bolt	43	58.3	6.0
Final drive cover nuts	22	29.8	3.0
Axle tube retainer nuts	14	19.0	2.0
Rear wheel Bearing retainer bolts	43	58.3	6.0
Oil drain plugs	14	19.0	2.0
Oil filler plug	14	19.0	2.0
Rear axle shaft nut	217	294.2	30.0
Transmission carrier on frame	166	225.1	23.0
Additional torques for transmission and rear axle (Automatic Stick Shift)			
Temperature switch/ Slector Switch, Starter	18	24.4	2.5

Safety switch			
Torque converter to drive plate screws	18	24.4	2.5
Retaining nut for tapered roller bearing	115	155.9	15
Nut for converter housing	14	19.0	2.0
Bolt for one-way clutch support (use new bolts)	11	14.9	1.5
Bolt for clutch carrier plate	11	14.9	1.5
Bearing lock bolt	7	9.5	1.0
Clamp bolt for clutch lever	18	24.4	2.5
Screw for transmission oil pan and lock plate	7	9.5	1.0
Union for oil pressure line	25	33.8	3.5
Union for oil return line	25	33.8	3.5
Screw for drive shaft	25	33.8	3.5
Bolt in Diagonal arm	87	118.0	12.0

**Tighten first to 12 mkg (87ft. lbs) then back off and finally tighten to 6 mkg (43ft. lbs)*

Brakes

Torque Wrench settings	LB FT	Nm	mkg
Master Cylinder			
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
Front Wheel Brakes			
Backing plate to steering knuckle bolt	36	48.8	5.0
Splash shield to steering knuckle bolt	7	9.5	1.0
Caliper housing screw	14 - 18	19.0 - 24.4	2.0 - 2.5
Cylinder to backing plate bolt	18	24.4	2.5
Caliper to steering knuckle	29	39.3	4.0

bolt			
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	7 - 9 Max	9.5 - 12.2 MAX	1.0 - 1.3 Max
Rear Wheel Brakes			
Cylinder to backing plate bolt (M8)	14 - 22	19.0 - 29.8	2.0 - 3.0
Cover to bearing housing bolt	43	58.3	6.0
Brake drum/ rear wheel hub to shaft (slotted) nut	253	343.0	35.0
Wheels			
Wheel to drum/disc bolt (M14)	87 - 94	118.0 - 127.4	12.0 - 13.0
Wheel to drum/disc bolt (M12)	72	97.6	10.0
Pedals			
Brake pedal bracket to frame bolt	28 - 32	38.0 - 43.4	4.0 - 4.5
Pedal stop plate to frame bolt	14 - 18	19.0 - 24.4	2.0 - 2.5

**Good for all brake line connections*

1970 - 1979

Engine

Torque Wrench settings	LB FT	Nm	mkg
Connecting rod nut	22 - 25	29.8 - 33.8	3.0 - 3.3
Crankcase screws M8 (halves)	14	19.0	2.0
Crankcase nuts M12 (halves)	18	24.4	2.5
Cylinder head nuts (M10)	23	31.2	3.2
Cylinder head nuts (M8)	18	24.4	2.5
Rocker shaft to Cylinder head nuts	14 - 18	19.0 - 24.4	2.0 - 2.5
Oil Pump to crankcase nut	14	19.0	2.0

Oil drain plug	25	33.8	3.5
Oil strainer cover nuts	5	6.7	0.7
Flywheel to crankcase bolt	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	29.8 - 39.3	3.0 - 4.0
Converter to Drive plate bolt	81	109.8	2.5
Generator Pulley	40 - 47	54.2 - 63.7	5.5 - 6.5
Special nut for Fan (M12)	40 - 47	54.2 - 63.7	5.5 - 6.5
Crankshaft Pulley bolt	29 - 36	39.3 - 48.8	4.0 - 5.0

Fuel injection

Torque Wrench settings	LB FT	Nm	mkg
Injector/Manifold bolts to cylinder head	4	5.4	0.6

Transmission and Rear Axle

Torque Wrench settings	LB FT	Nm	mkg
Engine to Transmission nut	22	29.8	3.0
Round nut/pinion	160*	216.9*	22.0*
Gear carrier/housing nut	14	19.0	2.0
Final drive carrier nut	22	29.8	3.0
Transmission to bonded rubber mounting nut	14	19.0	2.0
Shift housing to gear carrier	11	14.9	1.5
Drive pinion round nut (Double taper roller bearing)	145	196.6	20.0
Ring Gear to differential housing bolt	43	58.3	6.0
Selector shaft/fork bolt	18	24.4	2.5
Support/reverse lever nut	25	33.8	3.5
Bushing/Clutch operating shaft bolt	7	9.5	1.0
Oil filter and drain plugs	14	19.0	2.0
Rear wheel shaft (castellated) nut	217	294.2	30.0

Spring plate bolt	80	108.5	11.0
Drive shaft/flange screw	25	33.8	3.5
Control arm fitted bolt	87	118.0	12.0
Cover/spring plate bushing bolt	25	33.8	3.5
Transmission carrier to frame bolt	166	225.1	23.0
Front mounting/ frame/ sub frame nut	25	33.8	3.5
Engine carrier nut	18	24.4	2.5
Shock absorber to control arm nut	50	67.8	7.0
Shock absorber to frame nut	50	67.8	7.0
Bearing cover to wheel bearing bolt	43	58.3	6.0

** Tighten to 22.0 mkg (216.9 Nm)(160 ft. lb.), loosen, and tighten finally to 22.0 mkg (216.9 Nm)(160 ft. lb.)*

Front Axle

Torque Wrench settings	LB FT	Nm	mkg
Front Axle to frame bolt	36	48.8	5.0
Shock absorber to side plate nut	14	19.0	2.0
Shock absorber to Lower torsion arm nut	22 - 25	29.8 - 33.8	3.0 - 3.5
Steering Ball joints nut (M12)	36 - 50	48.8 - 67.8	5.0 - 7.0
Steering Ball joints nut (M10)	29 - 36	39.3 - 48.8	4.0 - 5.0
Wheel bearing clamp nut (prior to adjusting axial play)	7 - 9.5 MAX (While turning wheel)	9.5 - 12.9 MAX (While turning wheel)	1.0 - 1.3 MAX (While turning wheel)
Tie rods (slotted) nut	22	29.8	3.0
Steering damper to tie rod nut	18	24.4	2.5
Steering damper to axle tube bolt	29 - 32	39.3 - 43.4	4.0 - 4.5
Setscrew for torsion bar	29 - 36	39.3 - 48.8	4.0 -

			5.0
Locknut for setscrew	29 - 36	39.3 - 48.8	4.0 - 5.0
Brake Caliper to steering knuckle bolt	29	39.3	4.0
Body mounting on front axle beam bolt	11 - 14	14.9 - 19.0	1.5 - 2.0
Steering column on worm spindle bolt	14 - 18	19.0 - 24.4	2.0 - 2.5
Steering column tube on dashboard bolt	3.6 - 7	4.9 - 9.5	0.5 - 1.0
Brake hose in brake wheel cylinder	11 - 14	14.9 - 19.0	1.5 - 2.0
Steering gearbox cover bolt	14 - 18	19.0 - 24.4	2.0 - 2.5
Steering gearbox worm adjuster nut	36 - 43	48.8 - 58.3	5.0 - 6.0
Roller shaft adjusting screw locknut	18	24.4	2.5
Tie rod end retaining clamp nut	11	14.9	1.5
Steering wheel to column nut	36	48.8	5.0
Steering gearbox on axle beam bolt	18 - 22	24.4 - 29.8	2.5 - 3.0
Drop arm to roller shaft clamp bolt	50	67.8	7.0

Front Strut Suspension

Torque Wrench settings	LB FT	Nm	mkg
Track control arm to frame head nut	29	39.3	4.0
Track control arm to ball joint nut	29	39.3	4.0
Ball joint stud in steering knuckle (1974)	25	33.8	3.5
Stabilizer to track control arm nut	22 (turn onto cotter pin hole)	29.8 (turn onto cotter pin hole)	3.0 (turn onto cotter pin hole)
Stabilizer clamp to frame head bolt (1971-1973)	14	19.0	2.0

Stabilizer clamp to frame head bolt (1974)	29	39.3	4.0
Strut mounting to shock absorber (1971-1973) nut	50 - 61	67.8 - 82.7	7.0 - 8.5
Strut mounting to shock absorber (1974) nut	43	58.3	6.0
Steering knuckle axle ball joint to strut bolt	29	39.3	4.0
Steering knuckle to strut (1974) bolt	61	82.7	8.5
Strut to Body nut	14	19.0	2.0
Backing plate to steering knuckle bolt	36	48.8	5.0
Wheel bearing nut	7 (9 MAX) (while turning wheel)	9.5 (12.2 Max) (while turning wheel)	1.0 (1.3 MAX) (while turning wheel)
Clamp nut screw	7 -9	9.5 - 12.2	1.0 - 1.3
Idler arm bracket to body bolt	22	29.8	3.0
Idler arm to bracket nut	29	39.3	4.0
Adjusting bolt in idler arm bracket nut	14	19.0	2.0
Center tie rod to drop arm and idler arm nut	22 (turn onto cotter pin hole)	29.8 (turn onto cotter pin hole)	3.0 (turn onto cotter pin hole)
Side tie rods to center tie rod and steering knuckle nut	22 (turn onto cotter pin hole)	29.8 (turn onto cotter pin hole)	3.0 (turn onto cotter pin hole)
Clamps on tie rods nut	11	14.9	1.5
Locknut on tie rod	18	24.4	2.5
Steering damper to frame head bolt	43	58.3	6.0
Steering damper to drop arm bolt	29 - 32	39.3 - 43.4	4.0 - 4.5
Steering gearbox to body bolt	29	39.3	4.0

Tie rod end (M12 Castellated) nut	22	29.8	3.0
Tie rod end (M10 Castellated) nut	18	24.4	2.5
Drop arm on roller shaft nut	72 (peen after torquing)	97.6 (peen after torquing)	10.0 (peen after torquing)
Universal joint shaft to worm spindle and steering column bolt and nut	18	24.4	2.5
Cover on steering gearbox bolt	14 - 18	19.0 - 24.4	2.0 - 2.5
Roller shaft adjusting screw locknut	18	24.4	2.5
Worm adjuster locknut	47	63.7	6.5
Column tube to instrument panel bolt	11	14.9	1.5
Column switch to column tube bolt	4 - 7	5.4 - 9.5	0.5 - 1.0
Tie rod inner end to steering rack bolt	40	54.2	5.5
Tie rod mounting bracket to steering rack nut and bolt	14	19.0	2.0
Rack and pinion steering to steering mounting brackets nut and bolt	18	24.4	2.5
Rack and pinion steering mounting brackets to side members bolt	32	43.4	4.5

Automatic Transmission

Torque Wrench settings	LB FT	Nm	mkg
Automatic Stick Shift Clutch housing switch	18	24.4	2.5
Transmission case selector switch	18	24.4	2.5
Gearshift housing neutral safety switch	18	24.4	2.5
Torque converter to drive plate screw	18	24.4	2.5

Lock plate to retaining ring screw	7	9.5	1.0
Gears to transmission nut	160	216.9	22.0
Lock plate to adjusting ring screw	7	9.5	1.0
Gear carrier to transmission case nut	11	14.9	1.5
Torque converter housing to transmission case nut	14	19.0	2.0
Cover to transmission case screw	7	9.5	1.0
Bonded rubber mounting to converter housing nut	14	19.0	2.0
Transmission mounting to bonded rubber mounting nut	14	19.0	2.0
Selector shaft to fork bolt	18	24.4	2.5
Bearing lock bolt	7	9.5	1.0
Pinion nut	145	196.6	20.0
Ring gear bolt	32	43.4	4.5
Gearshift housing to bonded rubber mounting nut	25	33.8	3.5
One-way clutch support tube to converter screw	11	14.9	1.5
Clutch to clutch carrier plate	11	14.9	1.5
Oil feed line to transmission union	25	33.8	3.5
Oil return line to transmission union	25	33.8	3.5
Oil suction line to tank union	25	33.8	3.5
Clamp blot to clutch lever bolt	22	29.8	3.0
Joint to Flange screw	25	33.8	3.5