LT1 Engine Torque Specs

1994 Camaro 5.7L 350Cid LT1 Torque Specifications				
Fastener Specifications	**Torque/N.M**	**Torque/Ft.Lbs**	**Torque/In. Lbs**	**Specifications**
Accelerator Control Cable Bracket Bolt	10	7.5	90	N/A
A/C Compressor Rear brace to engine block	33	24	288	N/A
Camshaft Retainer Bolt	12	8.75	105	N/A
Camshaft Sprocket Bolt	28	12	144	N/A
Catalytic Converter to Exhaust Manifold	21	15	180	N/A
Connecting Rod Nut	61	45	540	N/A
Crankshaft Balancer Bolt	81	60	720	N/A
Crankshaft Balancer Hub Bolt	102	75	900	N/A
Crankshaft Bearing Cap	105	77	924	N/A
Crankshaft Rear Oil Seal Housing Nut	15	11	132	N/A
Cylinder Head Bolt	88	65	780	Tighten in 3 passes
Distributor Bolt	11	8.3	100	N/A
Drive Belt Idler Pulley	50	37	444	N/A
Drive Belt Tensioner	33	24	288	N/A
EGR Control Valve Relay Nut	22	16	192	N/A
EGR Valve Nut	22	16	192	N/A
Engine Block Oil Galley Plug	24	18	216	N/A
Engine Bracket Bolt	58	43	516	N/A
Engine Coolant Air Bleed Pipe Bolt	41	30	360	N/A
Engine Front Cover Bolt	11	8.3	100	N/A
Engine Mount Through Bolt Nut	80	59	708	N/A
Engine Mount Through Bolt Screw	95	70	840	N/A
Engine Mount to Frame	58	43	516	N/A
Engine Oil Cooler Bolt	33	24	288	N/A
Engine Oil Cooler Fitting	23	17	204	N/A
Fastener Specifications	**Torque/N.M**	**Torque/Ft.Lbs**	**Torque/In. Lbs**	**Specifications**
Engine Oil Cooler Hose Bracket Nut	17	13	156	N/A
Engine Oil Level Sensor Assembly	22	16	192	N/A

Evaporator Canister Valve Bracket	6	4.42	53	N/A
Exhaust Manifold Bolt	35	26	312	N/A
Flywheel Bolt	100	74	888	N/A
Fuel Injection Rail Bolts	20	15	180	N/A
Fuel Pump Switch/Oil Pressure Gage	12	8.75	105	N/A
Generator Bracket	42	31	372	N/A
Ignition Coil Bolt	33	24	288	N/A
Intake Manifold Bolt/Stud FIRST PASS	8	5.92	71	First Pass
Intake Manifold Bolt/Stud SECOND PASS	48	35	420	Second/Final Pass
Knock Sensor Assembly	19	14	168	N/A
Map Sensor	6	4.42	53	N/A
Oil Filter Adapter	25	18	216	N/A
Oil Level Indicator Tube Nut	34	25	300	N/A
Oil Pan Corner Bolt	20	15	180	N/A
Oil Pan Side Rail Bolt	11	8.3	100	N/A
Oil Pan Baffle Nut	34	25	300	N/A
Oil Pan Drain Plug	22	16	192	N/A
Oil Pump Cover Bolt	9	6.7	80	N/A
Oil Pump Driveshaft Bolt	18	13	156	N/A
Oil Pump to Rear Crankshaft Bearing	88	65	780	N/A
Oil Temperature Sensor	12	9	108	N/A
Secondary Air Injection Pipe Bracket	34	25	300	N/A
Secondary Air Injection Pipe to Exhaust	34	25	300	N/A
Secondary Air Injection Pipe Flange Nut	25	19	228	N/A
Secondary Air Injection Pipe Flange Stud	10	7.42	89	N/A
Spark Plug Bracket	12	8.75	105	N/A
Starter Motor Bolt	46	34	408	N/A
Fastener Specifications	**Torque/N.M**	**Torque/Ft.Lbs**	**Torque/In. Lbs**	**Specifications**
Throttle Body Bolt	26	19	228	N/A
Valve Rocker Arm Cover Bolt	11	8.3	100	N/A
Valve Rocker Arm Stud	68	50	600	N/A
Water Pump Bearing Retainer	12	8.75	105	N/A
Water pump Bolt	41	30	360	N/A

Water Pump Driveshaft Bearing Retainer	12	9	108	N/A
Spark Plug	15	11	132	Don't Forget The Anti-Seize
Oil Filter	19	14	168	N/A

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Ignition Specific)			
Fastener Specifications	**Torque /N.M**	**Torque/ Ft.Lbs**	**Torque/ In. Lbs**
Distributor Bolt/Screw	1.9	1.42	17
Ignition Coil Assembly Bolt/Screw	25	18	216
Ignition Coil Assembly Stud	25	18	216
Ignition Coil Bolt/Screw	2.8	2.08	25
Ignition Coil Module Bolt/Screw	1.7	1.25	15

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Charging System Specific)			
Fastener Specifications	**Torque/N.M**	**Torque/ Ft.Lbs**	**Torque/ In. Lbs**
Battery Negative cable to Terminal	15	11	132
Battery Positive Cable to Terminal	14	10.3	124
Battery Positive Cable to Generator Nut	20	15	180
Generator Outer Brace Mounting Nut	33	24	288
Generator Rotor Shaft Drive End Nut	100	75	900
Generator-to-Accessory Mounting Brackt Lower	50	37	444
Generator-to-Accessory Mounting Brackt Upper	50	37	444
Generator-to-Generator Lower Brace Bolt	25	18	216
Generator-to-Generator Upper Brace Bolt	50	37	444

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Cranking System Specific)			
Fastener Specifications	**Torque/N.M**	**Torque /Ft.Lbs**	**Torque/ In. Lbs**
Battery Negative Cable Assembly	15	11	132
Starter Motor Assembly Heat Shield Nut	8	0.9	11
Starter Motor Bolt/Screw	47	35	420

Starter Motor Brush Holder Bolt/Screw (PG-250)	6.5	4.8	58
Starter Motor Commutator End Frame Bolt	8.5	6.25	75
Started Selenoid Switch “BAT” Terminal Inner Nut	9	6.7	80
Started Selenoid Switch “BAT” Terminal Outer Nut	9	6.7	80
Starter Selenoid Switch Clamo Bolt/Screw	11	8.1	97
Starter Selenoid Switch Inner Nut	9	6.7	80
Starter Selenoid Switch Outer Nut (SD210)	10	7.4	89
Starter Selenoid Switch Outer Nut (PG-250)	8	5.9	71
Starter Selenoid Switch “S” Terminal Nut	2.5	1.8	22
Started Through-Bolt /Screw	8.5	6.25	75

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Battery System Specific)			
Fastener Specifications	**Torque/N.M**	**Torque/ Ft.Lbs**	**Torque/ In. Lbs**
Battery Hold-Down Retainer Bolt/Screw	18	13	156
Battery Negative Cable Assembly-to-Battery	15	11	132
Battery Negative Cable Ground Body-to-Nut	5.5	4.1	49
Battery Negatyive Cable-to-Engine Block Nut	22	16	192
Battery Negatyive Cable-to-Engine Block Stud	33	24	288
Battery Positive and Negative Cable Retainer Nut	10	7.4	89
Battery Positive Cable Assembly-to-Battery Assembly	15	11	132
Battery Positive Cable-to-Generator Bolt/Screw	15	11	132
Battery Positive Cable-to-Generator Nut	10	7.4	89
Battery Positive Cable-to-Junction Block Nut	2	1.5	18
Battery Positive Cable-to-Starter Selenoid Switch Nut	9.5	7	84

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Fuel System Specific)			
Fastener Specifications	**Torque/N.M**	**Torque/ Ft.Lbs**	**Torque/ In. Lbs**
In-Line Fuel Filter Fitting	27	20	240
Fuel Tank Strap Attaching Bolts	34	25	300
Fuel Sender Assembly Retaining Nut	7	5.3	63

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Cooling System Specific)			
Fastener Specifications	**Torque/N.M**	**Torque/ Ft.Lbs**	**Torque/ In. Lbs**
Air Bleed Pipe Mounting Bolt/Screw	42	31	372
Air Bleed Pipe Mounting Nut	21	15	180

Battery Tray and Coolant Recovery Bolt/Screw	12	8.8	106
Engine Block Coolant Drain Hole Plug	21	15	180
Engine Front Cover Bolt Screw	21	16	192
Knock Sensor	19	14	168
Oil Cooler Pipe Connections	20	15	180
Power Steering Bracket Bolt/Screw	31	23	276
Radiator Air Lower Deflector Bolt/Screw	1.5	1.1	13
Radiator Drain Cock Assembly	1.5	1.1	13
Radiator Upper Mounting Panle Bolt/Screw	12	8.3	106
Water Outlet Bolt/Screw	28	12	106
Water Pump Bolt/Screw	42	31	372
Water Pump Cover Bolt/Screw	45	33	396

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Brake System Specific)			
Fastener Specifications	**Torque/N.M**	**Torque/Ft.Lbs**	**Torque/ In. Lbs**
ABS Hydraulic Modulator Bleeder Valves	9	6.67	80
ABS Hydraulic Modulator Selenoid TorX Head Bolt	4.5	3.33	40
Electronic Brake Control Module (EBCM) Nut	25	1.54	18.5
ABS Hydraulic Modulator Mounting Bolt	9	6.67	80
(3) Hydraulic Modulator Brake Pipe Tube Nuts	32	2.00	24
(2) Brake Combination Valve Brake Pipe Tube Nuts	18	1.08	13
(2) Master Cylinder Brake Pipe Tube Nuts	32	2.00	24
Modulator Drive Gear Nuts	8.5	6.25	75
Torx Head Screws Attaching Gear Cover	7	2.92	35
(4) Torx Head Srews Attaching Motor Pack	4.5	3.33	40
(2) Banjo Bolts Attaching Brake Combination Valve			
to ABS Modulator	16	12.00	144
Parking Brake Indicator Switch Bolt/Screw	2.8	2.08	25
Parking Brake Lever Bolt/Scerw	12	8.83	106
Lower Caliper Guide Pin Bolt/ Screw	37	27.00	324
Rear Brake Caliper Bleeder Valve	11	8.08	97
Rear Brake Caliper Mounting Plate Bolt/Screw	100	74.00	888
Rear Brake Hose Fitting Bolt/Screw	30	22.00	264
Rear Brake Vibration Dampner Nut	50	37.00	444
Rear Parking Brake Lever Pivot Pin Nut	29	16.00	192

Upper Caliper Guide Pin Bolt/Screw	37	27.00	324
Front Brake Caliper Bleeder valve	13	9.58	115
Front Brake Caliper Bolt/Screw with Sleeve	51	38.00	456
Front Brake Hose Fitting	44	32.00	384
Wheel Nut	140	100.00	1200
Fastener Specifications	**Torque/N.M**	**Torque/Ft.Lbs**	**Torque/ In. Lbs**
Brake Master Cylinder Nut	32	24.00	288
Front Brake Combination Valve Pipe Assembly	32	24.00	288
Rear Brake Combination Valve Pipe Assembly	32	24.00	288
Brake Combination Valve Bolt/Screw	16	12.00	144
Brake Pedel Bracket Bolt/Screw	25	18.00	216
Brake Pedel Brackel Bracket Nut	25	18.00	216
Brake Pedel Nut	25	18.00	216
Brake Pedel Pivot Nut	54	40.00	480
Brake Pipe Clip Bolt/Screw	6	4.42	53
Clutch Master Cylinder Nut	27	20.00	240
Front Brake Combination Valve Pipe Ass.to Brake CVA	18	13.00	156
Front Brake Combination Valve Pipe Ass.to Brake Master Cyl.	32	24.00	288
Front Brake Hose Fitting	44	32.00	384
Front Brake Pipe Assy. To Front Brake Pressure Modulator	32	24.00	288
Front Brake Assy.to Front Brake Hose Assy.	15	11.00	132
Front Brake Front Pipe Clip Bolt/Screw	6	4.42	53
Rear Brake (Center) Hose Fitting Bolt/Screw	21	15.00	180
Rear Brake Combo Valve Assy to Brake Combo Valve Assy	18	13.00	156
Rear Brake Combo Valve Assy to Brake Master Cyl. Assy.	32	24.00	288
Rear Brake Front Pipe Assy to Brake Press. Modulator Valve Assy.	32	24.00	288
Rear Brake Front Pipe Assy to Rear Brake Ctr. Hose Assembly	15	11.00	132
Rear Brake Hose Fitting	44	32.00	384
Rear Brake Hose Retainer Bolt/Screw	10	7.42	89
Rear Brake Pipe Assy to Rear Brake Center Hose	24	18.00	216

Assembly			
Rear Brake Pipe Assy to Rear Brake Hose Assembly	15	11.00	132
Rear Brake Pipe Assy to Rear Wheel Cylinder	17	13.00	156
Rear Vrake Pipe Assy to Traction Control Brake Press Modulator	32	24.00	288
Traction Control Modulator Valve Pipe Assembly	32	24.00	288

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Rear Axle System Specific)			
Fastener Specifications	**Torque/N.M**	**Torque/ Ft.Lbs**	**Torque/ In. Lbs**
Differential Bearing Cap Bolt/Screw	75	55	660
Differential Drive pinion Gear Setting Gage Nut	2.3	1.7	20
Differential Pinion Gear Shaft Lock Bolt/Screw	36	27	324
Differential Ring Gear (Left Hand Thread) Bolt/Screw	120	89	1068
Rear Axle Housing Bolt/Screw	30	22	264
Rear Axle Housing Drain (Fill) Plug	35	26	312
Sensor Plug Mounting Bolt/Screw	10	7.42	89
Wheen Nut	140	100	1200

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Propeller Shaft Specific)			
Fastener Specifications	**Torque/N.M**	**Torque/ Ft.Lbs**	**Torque/ In. Lbs**
Propeller Shaft to Center Support Bearing Bolt/Screw	50	37	444
Propeller Shaft To Differential Yoke Bolt/Screw	22	16	192

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Steering System Specific)			
Fastener Specifications	**Torque/N.M**	**Torque/ Ft.Lbs**	**Torque/ In. Lbs**
Steering Wheel to Shaft Nut	41	30	360
Turn Signal Switch Connecting Screws	3.4	2.5	30
Turn Signal Switch Actuator Assembly Screw	2.3	1.67	20
Lock Housing Cover Screws	9	6.67	80
Lock Retaining Screw	2.5	1.83	22
Lock Bolt Spring Screw	4	2.92	35
Support to Jacket Screws	8.8	6.42	77
Ignition Switch Mounting Screw	3.7	2.75	33
Lower Dimmer Switch Mounting Screw	2.5	1.83	22

Upper Dimmer Switch Mounting Screw	4	2.92	35
Dimmer and Ignition Switch Bolt/Screw	4	2.92	35
Hazard Warning Switch Knob Bolt/Screw	0.6	0.5	6
Ignition Switch Bolt/Screw	2.5	1.8	22
Intermediate Steering Shaft to Steering Column Assy Bolt/Screw	47	35	420
Intermediate Steering Shaft to Steering Gear Assy Bolt/Screw	47	35	420
Steering Column Bolt/Screw	10	7.42	89
Steering Colmun Guide Bolt/Screw	25	18	216
Steering Column Upper Support Nut	25	18	216
Steering Wheel Nut	43	32	384
Steering Wheel to Inflatable Restraint Steering Wheel Module Bolt/Screw	2.8	2.08	25
Steering Linkage Tie Rod Adjust Nut	47	35.0	420
Steering Wheel to Steering Wheel Horn Switch Assembly Bolt/Screw	1.9	1.42	17

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Suspension System Specific)			
Fastener Specifications	**Torque/ N.M**	**Torque/Ft.Lbs**	**Torque/ In. Lbs**
Rear Axle Bumper Bolt/Screw	27	20	240
Rear Axle Lower Control Arm Bolt/Screw	108	80	960
Rear Axle Lower Control Arm Nut	82	60	720
Rear Axle Tie Rod Bracket to Left Hand Brace Bracket Bolt/Screw	47	35	420
Rear Axle Tie Rod to Left Hand Brace Bracket Nut	102	75	900
Rear Axle Tie Rod to Right Hand Brace Bracket Nut	102	75	900
Rear Axle Toruque Arm Bolt/Screw	130	96	1152
Rear Axle Toruque Arm Bracket Nut	41	30	360
Rear Axle Torque Arm Inner Bracket Bolt/Screw	50	37	444
Rear Axle Torque Arm Nut	132	97	1164
Rear Axle Torque Arm Outer Bracket Bolt/Screw	27	20	240
Rear Shock Absorber Nut Lower	90	66	792
Rear Shock Absorber Nut Upper	17	13	156
Rear Stabilizer Shaft Insulator Clamp Nut	24	18	216
Rear Stabilizer Shaft Link Bolt/Screw	23	17	204

Rear StabilizerShaft Link Nut	22	16	192
Front Crossmember to Drivetrain & Front Suspension Frame Nut Plug Bolt	100	74	888
Front Crossmember to Side Rail Bolt/Screw	125	92	1104
Front Lower Control Arm to Front Crossmember Assy. Nut (Vertical)	115	85	1020
Front Lower Control Arm to Front Crossmember Assy. Nut (Horizontal)	95	70	840
Front Lower Control Arm to Front Lower Control Arm Ball Stud Assy. Nut	110	81	972
Front Shock Absorber Bolt/Screw	65	48	576
Front Shock Absorber Lower Bracket Nut	65	48	576
Front Shock Absorber Upper Mount Bolt/Screw	50	37	444
Front Shock Absorber Upper Mount Nut	43	32	384
Fastener Specifications	**Torque/ N.M**	**Torque/Ft.Lbs**	**Torque/ In. Lbs**
Front Stabilizer Shaft Bracket Bolt/Screw	55	41	492
Front Stabilizer Shaft Insulator Clamp Bolt/Screw	55	41	492
Front Stabilizer Shaft Link Assembly	23	17	204
Front Stabilizer Shaft Link Assembly Nut	23	17	204
Front Upper Control Arm to Front Upper Control Arm Ball Stud Assy Nut	53	39	468
Front Upper Control Arm to Front Upper Control Arm Support Nut	98	72	864
Front Wheel Bolt/Screw	86	63	756

1994 Camaro 5.7L 350Cid LT1 Torque Specifications (Power Steering Pump System Specific)			
Fastener Specifications	**Torque/N.M**	**Torque/ Ft.Lbs**	**Torque/ In. Lbs**
Connector and Fitting Assembly	75	55	660
Pump Mounting Bolt	58	43.0	516
Power Steering Fluid Reservoir Bolt/Screw	75	55.0	660
PowerSteering Pump Bolt/Screw	25	18.0	216
Power Steering Pump Rear Bracket Bolt/Screw	50	37.0	444
Poer Steering Pump Suport Nut	50	37.0	444
Steering Gear Bolt Screw	85	a 63.0	756

O-Ring Union Fitting	75	55	660