

FRONT SUSPENSION			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Shock Absorber Upper Nut	27	20	—
Shock Absorber Lower Nut	76	56	—
Suspension Arm Lower Axle Bracket Nut	169	125	—
Suspension Arm Lower Frame Bracket Nut	169	125	—
Suspension Arm Upper Axle Bracket Nut/Bolt	102	75	—
Suspension Arm Upper Frame Bracket Bolt	102	75	—
Stabilizer Bar Retainer Bolts	61	45	—
Stabilizer Bar Link Upper Nut	102	75	—
Stabilizer Bar Link Lower Bolt	102	75	—
Track Bar Frame Bracket Nut	169	125	—
Track Bar Axle Bracket Bolt	169	125	—
Hub/Bearing Bolts	102	75	—
Hub/Bearing Axle Nut	136	100	—
Jounce Cup Bolt	42	31	—
Drag link to Knuckle (Right Side)	74	55	—
Drag link to Knuckle	74	55	—
Axle Shaft Nut	136	100	—
Wheel speed sensor	4-6	—	34-50

REAR SUSPENSION			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Shock Absorber Upper Bolts	50	37	—
Shock Absorber Lower Nut	76	56	—
Suspension Arm Lower Axle Bracket Nut	169	125	—
Suspension Arm Lower Frame Bracket Bolt	169	125	—
Suspension Arm Upper Axle Bracket Bolt	169	125	—
Suspension Arm Upper Frame Bracket Bolt	169	125	—
Stabilizer Bar Retainer Bolts	61	45	—
Stabilizer Bar Link Nut/Bolt	102	75	—

Stabilizer Bar to Link Nut	90	66	—
Track Bar Frame Bracket Nut	169	125	—
Track Bar Axle Bracket Bolt	169	125	—

PROPELLER SHAFT			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Front Shaft - Axle Flange Bolts	110	81	-
Front Shaft - Transfer Case Flange Bolts	20	15	-
Rear Shaft - Axle Flange Bolts	20	15	-
Rear Shaft - Transfer Case Flange Bolts	20	15	-

FRONT AXLE - 186FBI	
DESCRIPTION	SPECIFICATION
Axle Ratio	3.21, 4.10
Ring Gear Backlash	0.12 - 0.20 mm (0.005 - 0.008 in.)
Pinion Torque To Rotate - Original Bearings	1.13 - 2.26 N·m (10 - 20 in. lbs.)
Pinion Torque To Rotate - New Bearings	2 - 3.4 N·m (15 - 30 in. lbs.)
Differential Total Torque To Rotate: Pinion Torque To Rotate Plus	0.79 - 1.24 N·m (7 - 11 in. lbs.)

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Fill Hole Plug	34	25	-
Differential Cover Bolts	41	30	-
Bearing Cap Bolts	61	45	-
Ring Gear Bolts	108	80	-
Pinion Bearing Nut Min - Max	217 - 542	160 - 400	-
Axle Nut	136	100	-
Hub Bearing Bolts	102	75	-

FRONT AXLE - 216FBI	
DESCRIPTION	SPECIFICATION
Axle Ratio	4.1
Ring Gear Backlash	0.12 - 0.20 mm (0.005 - 0.008 in.)
Pinion Torque To Rotate - Original Bearing	1 - 2 N·m (10 - 20 in. lbs.)
Pinion Torque To Rotate - New Bearing	2 - 4.5 N·m (20 - 40 in. lbs.)
Total Torque To Rotate: Pinion Torque To Rotate plus	0.79 - 1.24 N·m (7 - 11 in lbs)

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Fill Plug	34	25	-
Differential Cover Bolts	41	30	-
Bearing Cap Bolts	108	80	-
Pinion Nut	217-271	160-200	-
Ring Gear Bolts	136	100	-
Axle Nut	136	100	-
Hub Bearing Bolts	102	75	-

REAR AXLE - 198RBI	
DESCRIPTION	SPECIFICATION
Axle Ratio	4.1
Ring Gear Backlash	0.12 - 0.20 mm (0.005 - 0.008 in.)
Pinion Torque To Rotate - Original Bearings	1 - 2 N·m (10 - 20 in. lbs.)
Pinion Torque To Rotate - New Bearings	2 - 4 N·m (20 - 35 in. lbs.)
Total Torque To Rotate: Pinion Torque To Rotate plus	0.79 - 1.24 N·m (7 - 11 in. lbs.)

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Differential Cover Bolts	41	30	-
Bearing Cap Bolts	77	57	-
Ring Gear Bolts	136	100	-
Pinion Nut	271 - 475	200 - 350	-
Axle Retainer Nuts	61	45	-

REAR AXLE - 226RBI	
DESCRIPTION	SPECIFICATION
Axle Ratio	3.21, 4.10
Ring Gear Backlash	0.12 - 0.20 mm (0.005 - 0.008 in.)
Pinion Torque To Rotate - Original Bearings	1 - 2 N·m (10 - 20 in. lbs.)
Pinion Torque To Rotate - New Bearings	2 - 4.5 N·m (20 - 40 in. lbs.)
Total Torque To Rotate: Pinion Torque To Rotate plus	0.79 - 1.24 N·m (7 - 11 in. lbs.)

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Fill Hole Plug	34	25	-
Differential Cover Bolts	41	30	-
Bearing Cap Bolts	108	80	-
Ring Gear Bolts	136	100	-
Pinion Nut	217 - 271	160 - 200	-
Axle Retainer Nuts	61	45	-

BRAKE COMPONENTS	
DESCRIPTION	SPECIFICATION
Disc Brake Caliper Type	Sliding
Front Disc Brake Rotor Type	Ventilated
Rear Disc Brake Rotor Type	Solid

Front Disc Brake Rotor Diameter	302 x 28 mm (11.89 x 1.10 in.)
Rear Disc Brake Rotor Diameter	312 x 12 mm (12.28 x 0.472 in.)
Front Ventilated Disc Brake Rotor	Max. Runout 0.10 mm (0.0039 in.)
Rear Solid Disc Brake Rotor	Max. Runout 0.102 mm (0.004 in)
Front Ventilated Disc Brake Rotor	Max. Thickness Variation 0.009 mm (0.00035 in.)
Rear Solid Disc Brake Rotor	Max Thickness Variation 0.018 mm (0.0007 in)
Front Ventilated Disc Brake Rotor	Min. Thickness 22.7 mm (0.8937 in.)
Rear Solid Disc Brake Rotor	Min. Thickness 11.00 mm (0.433 in.)
Brake Booster Type	Tandem Diaphragm

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Brake Booster Mounting Nuts	25	18	—
Master Cylinder Mounting Nuts	17	13	151
Booster Mounting Plate	18	—	159
Master Cylinder Brake Lines	19	14	168
Front Caliper Adapter Mounting Bolts	35	26	—
Rear Caliper Adapter Mounting Bolts	35	26	220
Front Caliper Brake Hose Banjo Bolt	31	23	—
Rear Caliper Brake Hose Banjo Bolt	31	23	—
Front Caliper adapter	163	120	—
Rear Caliper adapter	75	55	—
Parking Brake Lever Bracket Bolts	12	9	—

CLUTCH			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.

Pressure Plate Bolts - 2.8L	31	23	-
Pressure Plate Bolts - 3.8L	50	37	-
Flywheel Bolts - 2.8L	95	70	-
Flywheel Bolts - 3.8L	81	60	-
Slave Cylinder Nuts	23	17	-
Dust Shield Bolts	50	37	-
Crossmember Frame Bolts	41	30	-

COOLING SYSTEM			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Bolt, Block Heater	2	-	17
Bolts, Condenser to Radiator			
Electric Fan to Fan Shroud bolts	6		53
Bolts, Fan Blade Assembly to Viscous Drive - Diesel	23	-	210
Viscous Fan Drive - Diesel	50	37	-
Bolts, Fan Shroud to Radiator Mounting	8	-	70
Bolts, Radiator Upper Isolator to Crossmember	9	-	80
Bolts, Thermostat Housing-	28	-	250
Bolts, Water Pump			
3.8L	12	-	105
2.8L	23	-	200

3.8L ENGINE		
DESCRIPTION	METRIC	STANDARD
Engine Type	60° V-6 Engine	
Number of Cylinders	6	
Displacement 3.8L	3.8 Liters	231 cu. in.
Bore 3.8L	96.0 mm	3.779 cu.in.

Stroke	87 mm	3.425 in.
Compression Ratio 3.8L	-	9.6:1
Firing Order	-	1-2-3-4-5-6
Compression Pressure-Minimum	689.5 kPa	100 psi.
Cylinder Compression (Max. Difference Between Cylinders)	-	0.25

CYLINDER BLOCK		
DESCRIPTION	METRIC	STANDARD
Cylinder Bore Diameter (Standard) 3.8L	95.993-96.007 mm	3.7792-3.780 in.
Out of Round (Service Limits)	0.076 mm	0.003 in.
Taper (Service Limits)	0.051 mm	0.002 in.
Lifter Bore Diameter	22.980-23.010 mm	0.905-0.906 in.
Deck Surface Flatness (Max.)	0.1 mm	0.004 in.

CRANKSHAFT		
DESCRIPTION	METRIC	STANDARD
Connecting Rod Journal Diameter	57.979-58.005 mm	2.2827-2.2837 in.
Main Bearing Journal Diameter	63.993-64.013 mm	2.5194-2.5202 in.
Journal Out-of-Round (Max.)	0.025 mm	0.001 in.
Journal Taper (Max.)	0.025 mm	0.001 in.
End Play	0.09-0.24 mm	0.0036-0.0095 in.
Wear Limit	0.381 mm	0.015 in.
Main Bearing Diametrical Clearance 1-2-3-4	0.011-0.055 mm	0.0005-0.0022 in.
Wear Limit	0.076 mm	0.003 in.

CONNECTING RODS		
DESCRIPTION	METRIC	STANDARD
Bearing Clearance	0.019-0.065 mm.	0.017-0.020 in.
Wear Limit	0.074 mm	0.003 in.
Side Clearance	0.13-0.32 mm	0.005-0.013 in.
Wear Limit	0.38 mm	0.015 in.

PISTONS		
DESCRIPTION	METRIC	STANDARD
Piston Diameter 3.8L-Measured 33.01 mm (1.30 in) From Piston Top	95.968-95.998 mm.	3.778-3.779 in.
Clearance in Bore @ Size Location (New)	-0.005-0.039 mm	-0.0002–0.0015 in.
Weight 3.8L	426 ± 5 grams	15.03 ± 0.1764 oz.

PISTON PINS		
DESCRIPTION	METRIC	STANDARD
Type	Press Fit in Rod (Serviced as a Assembly)	
Clearance in Piston @ 21C (70°F)	0.006-0.019 mm	0.0002-0.0007 in.
Clearance in Connecting Rod	Interference Fit	
Diameter	22.87-22.88 mm	0.9007-0.9009 in.
Length 3.8L	71.25-71.75 mm	2.805-2.824 in.

PISTON RINGS		
DESCRIPTION	METRIC	STANDARD
Ring End Gap		
Top Compression Ring	0.18-0.38 mm	0.007-0.015 in.
Second Compression Ring	0.28-0.57 mm	0.011-0.022 in.
Oil Control (Steel Rails)	0.23-0.78 mm	0.009-0.030 in.
Wear Limit-Compression Rings	1.0 mm	0.039 in.
Wear Limit-Oil Control Steel Rails	1.88 mm	0.074 in.
Ring Side Clearance		
Top Compression Ring 3.8L	0.030-0.069 mm	0.0012-0.0027 in.
Second Compression Ring 3.8L	0.041-0.085 mm	0.0016-0.0033 in.
Oil Ring (Steel Ring)	0.039-0.200 mm	0.0015-0.0078 in.
Wear Limit- Top Ring	0.10 mm	0.004 in.
Wear Limit-2nd Ring	0.13 mm	0.005
Wear Limit Oil Ring Pack	0.266 mm	0.009
Ring Width-Top Compression Ring 3.8L	1.175-1.190 mm	0.0462-0.0468
Ring Width-2nd Compression Ring 3.8L	1.46-1.49 mm	0.0575-0.058 in.
Ring Width-Oil Ring (Steel Rails) 3.8L	0.435-0.510 mm	0.017-0.020

CAMSHAFT		
DESCRIPTION	METRIC	STANDARD
Journal Diameter		
#1	50.724-50.775 mm	1.997-1.999 in.
#2	50.317-50.368 mm	1.9809-1.9829 in.
#3	49.936-49.987 mm	1.9659-1.9679 in.
#4	49.530-49.581 mm	1.9499-1.9520 in.
Bearing Clearance-Diametrical	0.025-0.101 mm	0.001-0.004 in.
Bearing Clearance (Max.Allowable)	0.127 mm	0.005 in.
End Play	0.254-0.508 mm	0.010-0.020 in.

Camshaft Bearing Diameter		
#1	50.800-50.825	1.9999-2.0009 in.
#2	50.393-50.419 mm	1.9839-1.9849 in.
#3	50.013-50.038 mm	1.9690-1.9699 in.
#4	49.606-49.632 mm	1.9529-1.954 in.
Exhaust Valve Timing		
Closes-3.8L (ATDC)	-	18°
Opens-3.8L (BBDC)	-	46°
Duration-3.8L	-	244°
Intake Valve Timing		
Closes-3.8L (ABDC)	-	63°
Opens-3.8L (ATDC)	-	1°
Duration-3.8L	-	242°
Valve Overlap-3.8L	-	17°

HYDRAULIC LIFTER		
DESCRIPTION	METRIC	STANDARD
Type	Hydraulic Roller	
Outside Diameter	22.949-22.962 mm	0.903-0.904 in.
Clearance in Block	0.020-0.061 mm	0.0007-0.0024 in.

CYLINDER HEAD		
DESCRIPTION	METRIC	STANDARD
Gasket Thickness (Compressed)	0.65-0.75 mm	0.0007-0.0024 in.

VALVES		
DESCRIPTION	METRIC	STANDARD
Face Angle-Intake	-	45-45.5°
Face Angle-Exhaust	-	45-45.5°

Head Diameter-Intake	47.87-48.13 mm	1.88-1.89 in.
Head Diameter-Exhaust	35.37-35.63 mm	1.39-1.40 in.
Valve Lift (Zero Lash)-Intake and Exhaust-3.8L	11.0 mm	0.433 in.
Valve Length-Intake	125.84-126.6 mm	4.95-4.98 in.
Valve Length-Exhaust	127.20-127.96	5.00-5.04 in.
Valve Stem to Tip Height (valve tip to spring seat washer)-Intake	48.1-49.7 mm	1.89-1.95 in.
Valve Stem to Tip Height (valve tip to spring seat washer)-Exhaust	48.53-50.09 mm	1.91-1.97 in.

VALVE SEAT		
DESCRIPTION	METRIC	STANDARD
Angle	-	44.5-45°
Run Out (Service Limits)	0.0762 mm	0.003 in.
Width-Intake and Exhaust	1.50-2.00 mm	0.057-0.078 in.

VALVE GUIDE		
DESCRIPTION	METRIC	STANDARD
Guide Bore Diameter (Std.)	6.975-7.00 mm	0.274-0.275 in.

VALVE MARGIN		
DESCRIPTION	METRIC	STANDARD
Intake	0.825-0.973 mm	0.032-0.038 in.
Exhaust	1.565-1.713 mm	0.061-0.067 in.

VALVE STEM DIAMETER		
DESCRIPTION	METRIC	STANDARD
Intake (Standard)	6.935-6.953 mm	0.2718-0.2725 in.
Exhaust (Standard)	6.906-6.924 mm	0.2718-0.2725 in.

VALVE STEM TO GUIDE CLEARANCE		
DESCRIPTION	METRIC	STANDARD

Intake	0.025-0.065 mm	0.001-0.0025 in.
Exhaust	0.059-0.094 mm	0.002-0.0037 in.
Max Allowable-Intake (Rocking Method)	0.247 mm	0.010 in.
Max Allowable-Exhaust (Rocking Method)	0.414 mm	0.016 in.

PUSH RODS		
DESCRIPTION	METRIC	STANDARD
Length	135.438 mm	5.33 in.

VALVE SPRING		
DESCRIPTION	METRIC	STANDARD
Free Length-Type A	51.4 mm	2.02 in.
Free Length-Type B	53.4 mm	2.10 in.
Wire Diameter Type A	3.95-4.77 mm	0.15-0.19 in.
Wire Diameter Type B	4.19-4.29 mm	0.16-0.17 in.
Number of Coils Type A	7.52	
Number of Coils Type B	7.25	
Spring Tension (Valve Closed) Type A	376.4-424.4 N @ 41.9 mm	84.6-95.6 lbs. @ 1.65 in.
Spring Tension (Valve Open) Type A	863.9-959.9 N @ 41.9 mm	194.2-215.8 lbs. @ 1.65 in.
Spring Tension (Valve Closed) Type B	377-423 N @ 41.9 mm	84.8-95.2 lbs. @ 1.65 in.
Spring Tension (Valve Open) Type B	880-962 N @ 30.91 mm	197.9-216.3 lbs. @ 1.22 in.
Installed Height	41.1-42.7 mm	1.61-1.68 in

LUBRICATION		
DESCRIPTION	METRIC	STANDARD
At Curb Idle Speed* (Minimum with engine at operating temperature)	34.47 kPa	5 psi
At 3000 RPM	205-551 kPa	30-80 psi
Oil Filter By-Pass Valve Setting	62-103 kPa	9-15 psi
Oil Pressure Switch Actuating Pressure	14-28 Kpa	2-4 psi

CAUTION: *If pressure is ZERO at curb idle, DO NOT run engine at 3000 rpm.

OIL PUMP		
DESCRIPTION	METRIC	STANDARD
Clearance Over rotors-Inner and Outer	0.10 mm	0.004 in.
Cover Out-Of-Flat (Max.)	0.025 mm	0.001 in.
Inner Rotor Thickness	7.64 mm	0.301 in.
Outer Rotor Thickness (Min)	7.64 mm	0.301 in.
Outer Rotor Clearance (Max)	0.039 mm	0.015 in.
Outer Rotor Diameter (Min)	79.95 mm	3.148 in.
Tip Clearance Between Rotors (Max)	0.20 mm	0.008 in.

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Camshaft Sprocket—Bolt	54	40	—
Camshaft Thrust Plate—Bolts	12	—	105
Forged Connecting Rod Cap-Nuts	54 +¼ turn	40 +¼ turn	—
Cracked Connecting Rod Cap-Bolts			
Crankshaft Main Bearing Cap-Bolts	41 +¼ turn	30 +¼ turn	—
Crankshaft Main Bearing Cap Cross Bolts (3.8L)	61	45	—
Crankshaft Oil Seal Retainer Rear-Bolts	12	—	105
Crankshaft Damper-Bolt	54	40	—
Cylinder Block Drain Plugs	20	15	—
Cylinder Head-Bolts			
Cylinder Head Cover-Bolts	12	—	105
Flex Plate to Crankshaft	88	65	—
Engine Mounting			
Exhaust Manifold-Bolts	23	—	200
Intake Manifold - Lower-Bolts	23	—	200
Intake Manifold - Lower Gasket Retainer-Bolts	12	—	105
Intake Manifold Upper-Bolts	12	—	105

Lifter Yoke Retainer-Bolts	12	—	105
Oil Filter Attaching Fitting	54	40	—
Oil Cooler Attaching Fitting	27	20	—
Oil Filter	20	15	—
Oil Filter Adapter-Bolts	28	—	250
Oil Gallery Plug	27	20	—
Oil Pan—Bolts	12	—	105
Oil Pan Drain-Plug	27	20	—
Oil Pressure Switch	23	—	200
Oil Pump Cover Plate-Screws	12	—	105
Oil Pump Pick-up Tube-Bolt	28	—	250
Oil Dipstick Housing-Bolts	48	35	—
Rocker Arm Shaft-Bolts	23	—	200
Spark Plug	16	12	—
Thermostat Housing	12	—	105
Timing Chain Case Cover			
—M8 Bolt	27	20	—
—M10 Bolt	54	40	—
Water Pump-Bolts	12	—	105
Water Pump Pulley-Bolts	28	—	250

2.8L Panther Engine	
Engine	2.8L PANTHER JK
Engine Type	2.8L — 16 Valves
Displacement	2777 cc
Bore	94
Stroke	100.05
Power (VGT)	130 kW (177CV)@3800 RPM
Torque (ATX)	400 Nm @ 2000 RPM

Torque (MTX)	410 Nm @ 2000 RPM
Cylinders	4 In line
Injection Order	1–3–4–2
Compression Ratio	17.0:1
Maximum compression pressure variation between two cylinders.	5 bar
Vacuum at idle	680 mm/HG (27.5 In/HG)
Idle Speed (ATX)	760 +/- 50 RPM
Idle Speed (MTX)	875 +/- 50 RPM
Maximum RPM in Gear	4500 RPM
Maximum RPM in neutral	ATX 2800 MTX 3500
Belt tension	Automatic Belt Tensioner
Thermostat opening	80°C +/- 2°C
Generator Rating	Denso 12V-180A
Emissions Level	EU4
Block configuration/Material	Open/Cast Iron
Cylinder Head	Dual Overhead Cam
Timing System	Belt
Fuel System	CP3.2+ 1,600 bar Fuel Pump, Piezo Injectors
Electronic Control Unit	EDC 16
Timing System	Belt Driven DOHC Overhead Camshaft
Air Intake	Dry Filter With turbocharger and Charge Air Cooler
Fuel System	Direct Fuel Injection Common Rail System
Emission devices	Cooled EGR (pneumatic)
	Electric Intake Throttle

	Fast Metallic Glow plugs
Combustion Cycle	4 Stroke
Cylinder Compression Difference Between Cylinders	5 bar (72.5 psi)
Cooling System	Water Cooling
Turbocharging:	Single VGT with REA
Intake Ports	Aluminum heads with traditional dual side intake and exhaust ports. One intake port is helical and the other has a directed entry.
Crankshaft	8 Counterweights with an incorporated balance shaft gear.
Camshafts	2 overhead camshafts with axial front bearings and identical camshaft caps, finger followers, and hydraulic lifters.
Intake & Exhaust Valves	Flat with fire deck face.
Intake Manifold	Aluminum, with Cast-in EGR passages, intake mixer, vacuum actuated EGR valve, electric intake throttle and a U-type EGR cooler
Lubrication	Pressure Lubricated By Rotary Pump
Engine Rotation	Clockwise Viewed From Front Cover

2.8L Panther Engine Specifications	
Cylinder Head	
Cylinder head height	135.5 mm (5.334 in.)
Cylinder head flatness deformation tolerance	0.075 mm (0.003 in.)

Cylinder head gasket thickness	
0 Hole	1.10 mm (0.043 in)
1 Hole	1.20 mm (0.047 in)
2 Holes	1.30 mm (0.051 in)
Intake Manifold	
Intake manifold flatness deformation tolerance	0.075 mm (0.003 in.)
Exhaust Manifold	
Exhaust manifold flatness deformation tolerance	0.075 mm (0.003 in.)
Tappets	
Hydraulic tappet outside diameters	11.994 mm +/- 0.06 mm (0.472 in +/- 0.002)
Valves	
Intake valve face angle	45°30'
Exhaust valve face angle	45°30'
Intake Valve Head Diameter	32 mm (1.25 in.)
Exhaust Valve Head Diameter	29.4 mm (1.15 in.)
Intake Valve Stem Diameter	5.97 mm (0.235 in.)
Exhaust Valve Stem Diameter	5.96 mm (0.235 in.)
Intake Valve Guide Stem Clearance	
Min	0.030 mm (0.0012 in.)
Max	0.060 mm (0.0024 in.)
Exhaust Valve Guide Stem Clearance	
Min	0.040 mm (0.0016 in.)
Max	0.070 mm (0.0028 in.)

Valve Springs	
Free Length	50.8 mm (2 in.)
Closed Valve	38 mm (1.49 in.)
Opened Valve	29 mm (1.14 in.)
Camshafts	
Camshaft End Play	
Max	0.350 mm (0.013 in.)
Min	0.150 mm (0.006 in.)
Outer Journal Diameter (at crankshaft)	25.95 mm +/- 0.01 mm (1.021 mm +/- .0004 in)
Inner Journal Diameter (at cylinder head)	26.00 mm +/- 0.015 mm (1.027 mm +/- .0006 in)
Crankshaft Journal Clearance.	
Max	0.075 mm (0.003 in.)
Min	0.030 mm (0.0012 in)
Connecting Rods	
Connecting Rod Diameter (Small End)	32 mm (1.26 in.)
Connecting Rod Diameter (Large End)	57.563 mm (2.266 in.)
Piston Pin	
Diameter	32 mm (1.26 in.)
Length	70.7 mm - 71.00 mm (2.78 in — 2.79 in.)
Crankshaft	
End Play	0.1 mm — 0.33 mm (0.004 in. — 0.013 in.)
Bearing Selection	
Engine Block	

Cylinder Bore Internal Diameter	94 mm (3.700 in.)
Cylinder Bore Taper	TBD
Cylinder Bore Out-Of-Round	0.007 mm (0.0003 in.)
Fuel System	
Injection Pressure	CRS 3.0 — 1600 Bar
High Pressure Pump	CP3.2+
ECU	EDC16CP31
Injectors	Piezo CRI 3.0
Glow Plugs	
Make/Type	Bosch / GLP2
Voltage	4.4V
Lubrication System	
Oil Pump Outer Rotor End Play	
Min	0.01 (0.0004 in.)
Max	0.09 (0.0036 in.)
Oil Pump Inner Rotor End Play	
Max	0.01 mm (0.0004 in.)
Min	0.09 mm (0.0036 in.)
Oil Pump Outer Rotor to Body Diameter Clearance	
Max	0.130 mm (0.052 in.)
Min	0.230 mm (0.0091 in)
Oil Pressure Relief Valve	
Opening Pressure	5 Bar
Oil Pressure Valve Spring Free Length	46.8 mm (1.84 in)

Minimum Oil Pressure (Warm)	
at Idle	0.7 Bar
at 3800 RPM	2.5 Bar
Cooling System	
Thermostat Opening Temperature	80°C (176°F)
Engine Oil	
Coolant	

ENGINE BLOCK			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Lower Oil Pan	15	12	133
Upper Oil Pan (m6 bolt)	15	12	133
Upper Oil Pan (m8 bolt)	32	23	283
Oil Pickup Tube	15	12	133
Oil Drain Plug	54	40	478
Balance Shaft	32	23	283
Main Bearing Caps			
Connecting Rod Caps			
Dipstick Tube (sump)	11	8	97
Dipstick Tube (block)	33	24	292
Oil Cooler Coolant Line	15	12	133
Transmission adapter bolts (hex head)	15	12	133
Transmission adapter bolts (Allen Head)	78	57	690
Oil Jet	11	8	97
Engine Mount Bolts	12	9	106

Oil Filter Cap	25	18.4	221
Oil Pressure Sensor	14	10	124
Air Temp/Pressure sensor	12	9	106

CYLINDER HEAD			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Cylinder Head Bolt			
Cylinder Head Cover	11	8	97
Vacuum Tube	11	8	97
Fuel Rail	24	18	18
Fuel Injector Lines at the injector	28	20	247
Fuel injector lines at the fuel rail	20	15	177
High Pressure Fuel Feed Line at the Fuel Rail	20	15	177
High Pressure Fuel Feed Line at the High Pressure Pump	28	20	247
High Pressure Fuel Line Bracket bolt	15	11	133
Fuel injector	33	24	292
Glow Plugs	14	10	124
EGR Throttle Assembly	11	8	97
Exhaust Manifold	35	29	309
Camshaft Sprocket	64	47	566
Camshaft Cap	11	8	97
Front Camshaft Journal	11	8	97
Intake Manifold	25	19	221

FRONT ENGINE			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Outer Front Cover (upper)	11	8	97
Outer Front Cover (lower)	11	8	97
Inner Front Cover	11	8	97
Front Cover	15	12	133
Crankshaft Sprocket	100 + 75°	74+ 75°	885+ 75°

Crankshaft Pulley	32	23	283
Front Engine Lifting Bracket	45	33	398
Accessory Drive Idler Pulley	45	33	398
CMP sensor	11	8	97
Water Pump	32	23	283
Timing Belt Tensioner	20	15	177

REAR ENGINE			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Rear Cover	15	10	133
Rear Lifting Bracket	45	33	398
Crankshaft Sensor	11	8	97
CKP Cover Plate	15	11	133
Trans Adapter Plate (allen bolts)	79	58	699
Trans Adapter Plate (hex bolt)	45	33	398

ACCESSORY DRIVE			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Power Steering Pump Pulley	33	24	283
Power Steering Pump	33	24	283
Generator	33	24	283
Generator Bracket	45	33	398
A/C Compressor	32	23	283
A/C Compressor Bracket	45	33	33
Turbocharger	32	23	283
Turbocharger Oil Feed Line at the Turbocharger	24	18	212
Turbocharger Oil Feed Line at the Engine Block	32	23	283
Turbocharger Oil Return Line	15	11	133
Turbocharger Brace	32	23	283
Turbocharger Adapter (oil feed line to engine block connection)	54	40	478

EGR Valve	15	11	133
EGR Cooler	15	11	133
High Pressure Fuel Pump	24	18	212
High Pressure Fuel Pump Sprocket.	88	65	779
Oil Cooler Housing	32	23	283
Oil Cooler Feed Line	11	8	97

EXHAUST			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Bolts, Crossmember to Sill	42	31	-
Nuts, Crossmember to Transmission Mount	22	16	-
Nuts/Bolt, Exhaust Manifold to Engine			
#6&7	31	23	-
#1,2,3,4,5,8,9,10&11	33	24	-
Nuts, Exhaust Pipe to Catalytic Converter Flange	27	-	19
Nuts, Catalytic Converter to Turbocharger	27	19	-
Bolt, DPF to Catalytic Converter	32	24	-
Bolts, DPF to Muffler	32	24	-
Clamp, Tailpipe to Rear Tailpipe Hanger	27	20	-
Oxygen Sensors	27	20	-
Heat Shields	45	33	-

FRAME AND BUMPER			
DESCRIPTION	N·m	Ft. Lbs	In. Lbs.
Front bumper support bolts	90	66.5	—
Fuel tank skid plate to crossmember bolts	99	73	—
Rear bumper support bolts	25	18.5	—
Rear bumper support bracket to frame bolts	55	40.5	—
Trailer hitch/rear tow hook bolts	81	60	—

Transfer case skid plate crossmember bolts	65	48	—
Transfer case skid plate support bracket bolts	65	48	—
Transmission crossmember bolts	122	90	—
Transmission skid plate support crossmember bolts	65	48	—
Transmission skid plate to crossmember bolt	65	48	—

TORQUE - 3.8L GAS			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Accelerator Pedal Bracket Mounting	12	-	105
Crankshaft Position Sensor - 3.8L	28	21	-
Camshaft Position Sensor - 3.8L	-	-	106
Fuel Filler Hose Clamp at Tank	3	-	30
Fuel Filler Housing-to-Body Screws	2	-	17
Fuel Rail Mounting Bolts - 3.8L	22	17	200
Fuel Tank Mounting Straps	41	30	-
Throttle Body Mounting Bolts - 3.8L	7.5	5.5	65
Oxygen Sensors	41	30	-

STEERING COLUMN			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Steering Wheel Nut	54	40	—
Steering Column Mounting Nuts	17	—	150
Intermediate Shafts Coupler Pinch Bolts Upper & Lower	49	36	—
Upper Intermediate Shaft Mounting Nuts	13	—	115

POWER STEERING GEAR	
DESCRIPTION	SPECIFICATION

Steering Gear Type	Recirculating Ball
Steering Gear Overall Ratio	14:1 LWB or 16:1 SWB

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Pitman Shaft Overcenter Drag	0.45-0.80 + Worm Shaft Preload	—	4-7 + Worm Shaft Preload
Power Steering Gear Adjustment Screw Locknut	65	48	—
Power Steering Gear to Frame Bolts	108	870	—
Power Steering Gear Pitman Shaft Nut	251	185	—
Power Steering Gear Pressure Line	36	27	—
Power Steering Gear Return Line	36	27	—

STEERING LINKAGE			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Pitman Arm Shaft	251	185	—
Drag Link Ball Stud to Pitman Arm	105	77	—
Drag Link Ball Stud to Knuckle	85	63	—
Drag Link Clamp	35	26	—
Tie Rod Ends Ball Studs	85	63	—
Tie Rod Ends Clamp	61	45	—
Steering Damper to Frame	68	50	—
Steering Damper Tie Rod nut	68	50	—
Track Bar Frame Bracket Nut	169	125	—
Track Bar Axle Bracket Bolt	169	125	—

STEERING PUMP			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Power Steering Pump to engine	26	19	—
Diesel Power Steering Pump Pulley	28	21	—

Power Steering Pump Pressure Line	31	23	—
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MANUAL TRANSMISSION - NSG370			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Drain Plug	30	22	-
Fill Plug	30	22	-
Shift Tower Bolts	14	10	-
Shift Lever Bolt	4	-	33
Housing Bolts	28	20	-
Input Shaft Retainer Bolts	9	-	80
Bearing Retainer Bolts	10	-	88
Shift Rail Support Bolts	8	-	71
Idler Gear Shaft Bolt	20	15	-
Countershaft Bolt	100	74	-
Transmission - Top Four Bolts	40	30	-
Transmission - Side Two Bolts	68	50	-
Transmission - Bottom Four Bolts	54	40	-
Crossmember Bolts	47	35	-
Transmission Mount Bolts	47	35	-

GEAR RATIOS	
GEAR	RATIO
FIRST	4.46
SECOND	2.61
THIRD	1.72
FOURTH	1.24
FIFTH	1
SIXTH	0.84
REVERSE	4.06

42RLE AUTOMATIC TRANSMISSION	
GENERAL SPECIFICATIONS	
Transmission Type	Four-Speed Automatic, Electronically Controlled, Fully Adaptive, Electronically Modulated Torque Converter
Lubrication Method	Pump (internal - external gear-type)
Cooling Method	Water Heat Exchanger / Air-to-Oil Heat Exchanger

GEAR RATIOS	
GEAR	RATIO
1st Gear	2.84:1
2nd Gear	1.57:1
3rd Gear (Direct)	1.00:1
4th Gear (Overdrive)	0.69:1
Reverse Gear	2.21:1

BEARING PRELOAD (Drag Torque)		
DESCRIPTION	METRIC	STANDARD
Output Shaft	0.22-0.903 N·m	1-8 in. lbs.

CLUTCH PACK		
DESCRIPTION	METRIC	STANDARD
Low/Reverse Clutch (Select Reaction Plate)	0.84-1.60 mm	0.033-0.063 in.
Two/Four Clutch (No Select)	0.76-2.64 mm	0.030-0.104 in.
Reverse Clutch (Select Snap Ring)	0.89-1.37 mm	0.035-0.054 in.
Overdrive Clutch (No Select)	1.07-3.25 mm	0.042-0.128 in.
Underdrive Clutch (Select Reaction Plate)	0.94-1.50 mm	0.037-0.059 in.

INPUT SHAFT		
DESCRIPTION	METRIC	STANDARD
End Play	0.127-0.635 mm	0.005-0.025 in.

OIL PUMP CLEARANCES		
DESCRIPTION	METRIC	STANDARD
Outer Gear-to-Crescent	0.060-0.298 mm	0.0023-0.0117 in.
Inner Gear-to-Crescent	0.093-0.385 mm	0.0036-0.0151 in.
Outer Gear-to-Pocket	0.089-0.202 mm	0.0035-0.0079 in.
Outer Gear Side Clearance	0.020-0.046 mm	0.0008-0.0018 in.
Inner Gear Side Clearance	0.020-0.046 mm	0.0008-0.0018 in.

TORQUE SPECIFICATIONS			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Bolt, Converter-to-Driveplate	88	65	-
Bolt, Fluid Filter-to-Valve Body	5	-	45
Bolt, L/R Clutch Retainer-to-Case	5	-	45
Bolt, Adapter/Extension Housing	54	40	-
Bolt, Manual Valve Lever-to-Manual Valve	5	-	45
Bolt, Oil Pan-to-Case	20	14.5	-
Bolt, Oil Pump-to-Case	30	-	265
Bolt, Park Sprag Retainer	4.5	-	40
Bolt, Reaction Shaft Support Halves	28	-	250
Bolt, Solenoid/Pressure Switch Assy-to-Valve Body	5.5	-	50
Bolt, Torque Converter Housing to Engine Block	129	95	
Bolt, Valve Body-to-Case	12	-	105
Bolt, Valve Body-to-Transfer Plate	5	-	45
Fitting, Cooler Line	47.5	35	-
Nut, Output Shaft	271	200	-
Plug, Pressure Tap	5	-	45
Bolt, Input Speed-to-Case Sensor	9	-	80
Bolt, Output Speed-to-Case Sensor	9	-	80

545RFE Transmission		
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COMPONENT	METRIC	STANDARD
Output Shaft End Play	0.22-0.55 mm	0.009-0.021 in.
Input Shaft End Play	0.46-0.89 mm	0.018-0.035 in.
2C Clutch Pack Clearance	0.455-1.335 mm	0.018-0.053 in.
4C Clutch Pack Clearance	0.770-1.390 mm	0.030-0.055 in.
L/R Clutch Pack Clearance	1.00-1.74 mm	0.039-0.069 in.
OD Clutch Pack Clearance	1.103-1.856 mm	0.043-0.073 in.
UD Clutch Pack Clearance	0.84-1.54 mm	0.033-0.061 in.
Reverse Clutch Pack Clearance	0.81-1.24 mm	0.032-0.049 in.
Recommended fluid	Mopar® ATF +4	

GEAR RATIOS	
1ST	3.00:1
2ND	1.67:1
2ND PRIME	1.50:1
3RD	1.00:1
4TH	0.75:1
5TH	0.67:1
REVERSE	3.00:1

TORQUE SPECIFICATIONS			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Fitting, cooler line at trans	17.5	-	155
Bolt, torque converter housing to engine upper four	41	30	
Bolt, torque converter housing to engine lower four	54	40	
Bolts, transmission collar	68	50	
Bolt, torque converter to driveplate	31	23	270
Bolt/nut, crossmember	68	50	-
Bolt, driveplate to crankshaft	75	55	-
Bolts, clevis bracket / rear support	47	35	

Bolt , converter housing	68	50	
Bolt, oil pan	12	-	105
Screw, primary fluid filter	4.5	-	40
Nuts, transfer case	35	26	
Oil Filter, Cooler Return	9.5		84
Bolt, oil pump	28	-	250
Bolt, oil pump body to cover	4.5	-	40
Screw, plate to oil pump body	4.5	-	40
Bolt, valve body to case	12	-	105
Plug, pressure test port	5	-	45
Bolt, reaction shaft support	12	-	105
Screw, valve body to transfer plate	5.5	-	50
Screw, solenoid module to transfer plate	6	-	50
Screw, accumulator cover	7	-	60
Screw, detent spring	4.5	-	40
Bolt, input speed sensor	12	-	105
Bolt, output speed sensor	12	-	105
Bolt, line pressure sensor	12	-	105
Bolt, extension housing	54	40	-
Screw, manual valve cam retaining	4.5	-	40
Screw, manual selector shaft retaining	28	-	250
Cross-bolt, manual selector shaft	16	-	140

TRANSFER CASE - NV241 GENII			
DESCRIPTION	N-m	Ft. Lbs.	In. Lbs.
Plug, Detent	16-24	39434	-
Plug, Drain/Fill	20-34	15-25	-
Bolt, Extension Housing	16-24	39434	-
Bolt, Case Half	20-27	15-24	-
Screw, Oil Pump	39432	39306	-
Nut, Front Companion Flange	122-176	90-130	-

Nut, Range Lever	27-34	20-25	-
Sector Support	27-42	20-30	-
Nuts, Mounting	30-41	20-30	-
Position Sensor	20-34	16-25	-

TRANSFER CASE - NV241OR			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Plug, Detent	16-25	39434	-
Plug, Drain/Fill	20-34	15-25	-
Bolt, Rear Extension	16-24	39434	-
Bolt, Front Input Retainer	21	16	-
Bolt, Case Half	20-27	15-20	-
Nut, Front Yoke	122-176	90-130	-
Nut, Rear Companion Flange	258-312	190-230	-
Bolt, Shift Lever	20-34	15-25	-
Nuts, Mounting	30-41	20-30	-
Bolts, U-Joint	19	17	-
Support, Sector	27-42	20-30	-
Sensor, Transfer Case Position	20-34	16-25	-

WHEELS			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Lug Nut 1/2 X 20 with 60° Cone	115-170	85-125	—
Spare Wheel Lug Nut	54-108	40-80	—

TIRE PRESSURE MONITOR			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Tire Pressure Sensor/Transmitter Mounting Nut	8	—	71

BODY			
DESCRIPTION	N·m	Ft. Lbs	In. Lbs.
A/c expansion valve nut	23	17	—
Backlite hinge bolts	10	—	90
Body isolator mounting bolts	108	80	—
Body isolator to body nuts	54	40	—
Brake booster bracket nuts	18	13.5	—
Center OCS strain gauge stud nut	45	33	—
Door carrier plate screws	10	—	90
Door hinge pin nut	8.5	—	75
Door hinge to body bolts	28	21	—
Door hinge to hinge bolts	26	19	—
Door latch adjustment screw	3	—	26.5
Door latch mounting screws	8	—	71
Door latch striker bolts	26	19	—
Four door rear seat 40% inner seat back pivot nut	25	18.5	—
Four door rear seat center belt buckle bolt	61	45	—
Four door rear seat cushion pivot bolts	25	18.5	—
Four door rear seat front mounting fasteners	61	45	—
Four door rear seat headrest bolts	8	—	71
Four door rear seat inner latch floor bolts	25	18.5	—
Four door rear seat latch to back frame bolts	45	33	—
Four door rear seat outboard latch floor bolts	25	18.5	—
Four door rear seat rear mounting bolt	61	45	—
Four door rear seat rear mounting nuts	85	62.5	—
Four door rear seat seat cushion pivot bolt	25	18.5	—
Four door retractor screw	55	41	—
Four door seat cushion pivot bolt	25	18.5	—
Front door exterior handle nut	4.5	—	40
Front door glass run nut	10	—	90
Front door interior handle screw	8.5	—	75
Front seat back assembly bolts	47	34.5	—

Front seat belt anchor bolt	40	29.5	—
Front seat belt buckle bolt	50	37	—
Front seat belt turning loop screw	40	29.5	—
Front seat mounting bolts	61	45	—
Front seat riser nuts	28	21	—
Half door latch nut	4.5	—	40
Hard top front bolts	10.5	—	93
Hard top side bolts	18	13	—
Hood catch bracket nuts	7	—	62
Hood catch nuts	15	11	—
Hood hinge to body bolts	24	18	—
Hood hinge to hood bolts	26	19	—
Hood safety catch bolt	11	8	97
Instrument panel center support bracket fasteners	8	6	71
Instrument panel fence line nuts	12	9	—
Instrument panel side support bolts	11	8	—
Lower fender to sill bolts	12	9	—
Manual sifter bolt	33	24.5	—
OCS riser nuts	28	21	—
Outside rearview mirror bolts	13	10	—
Rear door exterior handle nut	4.5	—	40
Rear door glass run bolt	12	9	—
Rear door glass run nut	10	—	90
Rear door interior handle screw	8.5	—	75
Rear view mirror set screw	2	—	18
Seat side airbag nuts	7	—	62
Side step bracket bolts	24	18	—
Side step sill nuts	12	9	—
Soft top pivot knuckle bolts	14	10	—
Speaker pod screws	10	—	90
Sport bar cross bar bracket bolts	19	14	—
Sport bar front cross bar bracket bolts	19	14	—

Sport bar rear bolts	19	14	—
Sport bar rear cross bar bracket bolts	19	14	—
Sport bar side bar bolts	19	14	—
Sport bar side bar to windshield frame bolts	23	17	—
Sport bar to b-pillar bolts	19	14	—
Steering column opening reinforcement plate bolts	11	8	—
Tailgate exterior handle nuts	4.5	—	40
Tailgate hinge to body bolts	26	19	—
Tailgate hinge to tailgate bolts	20	15	—
Tailgate latch screws	8	—	71
Tailgate stabilizer insert and cup bolts	10	—	90
Tailgate striker bolts	28	21	—
Two door rear seat back frame to cushion bolts	50	37	—
Two door rear seat back latch bolts	45	33	—
Two door rear seat center belt buckle bolt	55	41	—
Two door rear seat cushion to back bolts	50	37	—
Two door rear seat front latch cushion frame bolts	45	33	—
Two door rear seat rear latch nuts	10	—	90
Upper fender fasteners	5	—	44
Windshield frame hinge to body bolts	20	15	—
Windshield frame reinforcement bracket bolts	20	15	—

<i>A/C SYSTEM</i>		
ITEM	DESCRIPTION	NOTES
A/C Compressor	Zexel DKS-17DS	ZXL-100 PAG Oil
Freeze-up Control	Evaporator Temperature Sensor	HVAC housing mounted - input to powertrain control module (PCM) or engine control module (ECM), depending on engine application
Low PSI Control	A/C Pressure Transducer	A/C discharge line mounted - input to powertrain control module (PCM) or engine control module (ECM), depending on engine application - PCM/ECM disengages compressor clutch below 0.451 volts

High PSI Control	A/C Pressure Transducer	A/C discharge line mounted - input to powertrain control module (PCM) or engine control module (ECM), depending on engine application - PCM/ECM disengages compressor clutch above 4.519 volts
	High Pressure Relief Valve	A/C Compressor mounted - opens at a discharge pressure over 3430 - 3930 kPa (497 - 570 psi)
R-134a Refrigerant Charge Capacity	0.51 kg (1.125 lbs).	Also see A/C Underhood Specification Label located in the engine compartment
A/C Clutch Coil Draw	3.3 amps	@ 12V \pm 0.5V @ 25° C (77° F)
A/C Clutch Coil Resistance	4.2 \pm 0.2 ohms	When measured across coil lead connector @ 25° C (77° F)
A/C Clutch Air Gap	0.30 - 0.60 mm (0.012 - 0.024 in.)	

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
All Screws NOT Listed Below	1.2	–	10
A/C Compressor Bolts	28	21	–
A/C Compressor Clutch Field Coil Screws	5	–	44
A/C Compressor Shaft Bolt	20	–	177
A/C Compressor Field Coil Connector Bracket Screw	4.3	–	38
A/C Condenser to Radiator Bolts	5	–	45
A/C Heater Control Screws	2	–	17
Air Inlet Housing to Instrument Panel Support Bolts	4	–	35
Blend Door Lever Screw	0.6	–	5
Discharge Line to Condenser Nut	23	17	–
Discharge Line to Compressor Nut	23	17	–
Expansion Valve Bolts	11	–	97
HVAC Housing to Instrument Panel Support Bolts	4	–	35
Liquid Line to Condenser Nut	23	17	–
Mode Door Cam Screw	0.6	–	5
Receiver/Drier to Condenser Bolt	22	16	–
Suction Line to Compressor Nut	23	17	–
Suction and Liquid Lines to Expansion Valve Nut	8	–	70

LAMPS			
DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Center High Mounted Stop Lamp (CHMSL) Mounting Screws	2	-	20
Front Fog Lamp Mounting Screws	2	-	18
Left Multi-Function Switch Mounting Screw	1	-	10
License Plate Bracket Mounting Screws	1.5	-	15
Park Brake Switch Mounting Screw	2.5	-	24
Rear Fog Lamp Mounting Screws	3	-	27
Rear Lamp Unit Mounting Screws	1.5	-	15