

BRAKES

BPMV Brake Pipe Fittings	16 N·m	12 lb ft	Flywh Bolts - Fin Pass	40 deg
Brake Fluid Pressure Sensor	22 N·m	16 lb ft	Front Cover Bolts	25 N·m 18 lb ft
EBCM/BPMV Bracket Bolts	27 N·m	20 lb ft	Fuel Injection Fuel Rail Bolts	10 N·m 89 lb in
EBCM/BPMV Insulator Nuts	12 N·m	106 lb in	Ignition Coil Bracket-to-Valve Cover Studs	12 N·m 106 lb in
EBCM/ BPMV Insulator Bolt	14 N·m	10 lb ft	Ignition Coil-to-Bracket Bolts	10 N·m 89 lb in
EBCM to BPMV Bolts in Order 1st pass	3 Nm	27 lbin	Intake Manifold Bolts - 1st Pass in Order	5 N·m 44 lb in
2nd pass	6 Nm	53 lbin	Intake Manifold Bolts - Fin Pass in Order	10 N·m 89 lb in
Lateral Accelerometer Nuts	3 N·m	24 lb in	J 41798 M8 Bolt	25 N·m 18 lb ft
Steering Gear Nut	100 N·m	74 lb ft	J 41798 M10 Bolts	50 N·m 37 lb ft
Yaw Rate Sensor Nuts	7 N·m	62 lb in	Knock Sensor Bolts	25 N·m 18 lb ft
Brake Caliper Bleed Screw	12 N·m	106 lb in	Oil Filter	30 N·m 22 lb ft
Brake Caliper Guide Pin Bolt (JL9, J55)	31 N·m	23 lb ft	Oil Filter Fitting	55 N·m 40 lb ft
Brake Caliper Inlet Fitting Bolt	45 N·m	33 lb ft	Oil Pan Closeout Cover Bolt - Left Side	9 N·m 80 lb in
Disc Brake Pad Pin (J56)	40 N·m	30 lb ft	Oil Pan Closeout Cover Bolt - Right Side	9 N·m 80 lb in
Front Brake Caliper Bolt (J56)	175 N·m	129 lb ft	Oil Pan Drain Plugs	25 N·m 18 lb ft
Front Brake Caliper Bracket Bolt (JL9, J55)	175 N·m	129 lb ft	Oil Pan M6 Bolts Oil Pan-to-Rear Oil Seal Hous	12 N·m 106 lb in
Rear Brake Caliper Bolt (J56)	175 N·m	129 lb ft	Oil Pan M8 Bolts -to pan & front cover	25 N·m 18 lb ft
Rear Brake Caliper Bracket Bolt (JL9, J55)	175 N·m	129 lb ft	Oil Pressure Sensor	35 N·m 26 lb ft
Brake Booster Mounting Nuts	27 N·m	20 lb ft	Oil Pump Cover Bolts	12 N·m 106 lb in
Brake Caliper Inlet Fitting Bolt	45 N·m	33 lb ft	Oil Pump Relief Valve Plug	12 N·m 106 lb in
Brake Pedal Pivot Nut	29 N·m	21 lb ft	Oil Pump Suction Pipe Bolts	12 N·m 106 lb in
Brake Pipe to Flexible Brake Hose Tube Nut	18 N·m	13 lb ft	Oil Pump-to-Eng Block Bolts	25 N·m 18 lb ft
Brake Pipe to Master Cylinder Tube Nut	24 N·m	18 lb ft	Spark Plugs	15 N·m 11 lb ft
Master Cylinder Mounting Nuts	29 N·m	21 lb ft	Throttle Body Bolts	10 N·m 89 lb in
Teles Column Motor Mounting Bracket Screw	7 N·m	62 lb in	Timing Chain Dampener Bolts	25 N·m 18 lb ft
Washer Solvent Container Retaining Nuts	7.5 N·m	66 lb in	Valley Cover Bolts	25 N·m 18 lb ft

ENGINE

Camshaft Position (CMP) Sensor Bolt	12 N·m	106 lb in	Valve Lifter Guide Bolts	12 N·m 106 lb in
Camshaft Retainer Bolts - Hex Head Bolts	25 N·m	18 lb ft	Valve Rocker Arm Bolts	30 N·m 22 lb ft
Camshaft Retainer Bolts - TORX® Head Bolts	15 N·m	11 lb ft	Valve Rocker Arm Cover Bolts	12 N·m 106 lb in
Camshaft Sprocket Bolts	25 N·m	18 lb ft	Water Inlet Housing Bolts	15 N·m 11 lb ft
Clutch Pressure Plate Bolts	70 N·m	52 lb ft	Water Pump Bolts - 1st Pass	15 N·m 11 lb ft
Connecting Rod Bolts - 1st Pass	20 N·m	15 lb ft	Water Pump Bolts - Fin Pass	30 N·m 22 lb ft
Connecting Rod Bolts - Fin Pass	110 deg		SUSPENSION-REAR	
Coolant Air Bleed Pipe and Cover Bolts	12 N·m	106 lb in	Lower Control Arm Ball Joint Stud Nut	
Coolant Temperature Sensor	20 N·m	15 lb ft	1st Pass	30 N·m 22 lb ft
Crank blncr Bolt - Installation Pass with old bolt	330 N·m	240 lb ft	Fin Pass	180 deg
Crank blncr Bolt - 1st Pass - Install a NEW Bolt	50 N·m	37 lb ft	Lower Control Arm Cam Bolt Nut - Front	145 N·m 107 lb ft
Crank blncr Bolt - Fin Pass	140 deg		Lower Control Arm Cam Bolt Nut - Rear	95 N·m 70 lb ft
Crank Bearing Cap M8 Bolts	25 N·m	18 lb ft	Outer Tie Rod End Stud Nut	
Crank Bearing Cap M10 Bolts - 1st Pass in Order	20 N·m	15 lb ft	1st Pass	20 N·m 15 lb ft
Crank Bearing Cap M10 Bolts - Fin Pass in Order	80 deg		Second Pass	160 deg
Crank Bearing Cap M10 Studs - 1st Pass in Order	20 N·m	15 lb ft	Fin Pass	60 N·m 45 lb ft
Crank Bearing Cap M10 Studs - Fin Pass in Order	51 deg		Rear Crossmember Mounting Nuts	110 N·m 81 lb ft
Crank Oil Deflector Nuts	25 N·m	18 lb ft	Rear Susp Adjust Link to Xmember Nut	60 N·m 44 lb ft
Crank Position (CKP) Sensor Bolt	25 N·m	18 lb ft	Rear Tie Rod Jam Nut	65 N·m 48 lb ft
Crank Rear Oil Seal Housing Bolts	30 N·m	22 lb ft	Shock Absorber Lower Mounting Nut	145 N·m 107 lb ft
Cylinder Head Coolant Plug	20 N·m	15 lb ft	Shock Absorber Upper Mounting Bolts	30 N·m 22 lb ft
Cylinder Head M8 Bolts - in Order	30 N·m	22 lb ft	Stabilizer Shaft Insulator Clamp Bolt	100 N·m 74 lb ft
Cylinder Head M11 Bolts - 1st Pass in Order	30 N·m	22 lb ft	Stabilizer Shaft Insulator Clamp Nut	95 N·m 70 lb ft
Cylinder Head M11 Bolts - Second Pass in Order	90 deg		Stabilizer Shaft Link Nuts	72 N·m 53 lb ft
Cylinder Head M11 Bolts - Fin Pass in Order	70 deg		Transverse Spring Mounting Bracket Bolts	62 N·m 46 lb ft
Eng Block Coolant Drain Hole Plug	60 N·m	44 lb ft	Upper Control Arm Ball Joint Stud Nut	
Eng Block Coolant Heater	50 N·m	37 lb ft	1st Pass	20 N·m 15 lb ft
Eng Block Oil Gallery Plugs	60 N·m	44 lb ft	Fin Pass	195 deg
Eng Mount Bracket Bolts	50 N·m	37 lb ft	Upper Control Arm Mounting Bolts	65 N·m 48 lb ft
Eng Oil Tank Baffle Bolts	10 N·m	89 lb in	Wheel Hub Mounting Bolts	130 N·m 96 lb ft
Eng Oil Tank Bolts	25 N·m	18 lb ft	SUSPENSION-FRONT	
EVAP Emiss Can Purge Sol Valve Bracket Bolt	50 N·m	37 lb ft	Crossmember Mounting Nuts (Use New Nuts)	110 N·m 81 lb ft
Exhaust Manifold Bolts - 1st Pass	15 N·m	11 lb ft	Lower Control Arm Ball Joint Stud Nut	
Exhaust Manifold Bolts - Fin Pass	20 N·m	15 lb ft	1st Pass	30 N·m 20 lb ft
Exhaust Manifold Heat Shield Bolts	9 N·m	80 lb in	Fin Pass	180 deg
Exhaust Manifold Studs	20 N·m	15 lb ft	Power Steering Gear Mounting Bolts	100 N·m 74 lb ft
Flywh Bolts - 1st Pass	30 N·m	22 lb ft	Shock Absorber Lower Mounting Nuts	28 N·m 21 lb ft
			Shock Absorber Upper Mounting Nut	26 N·m 19 lb ft

Stabilizer Shaft Insulator Clamp Bolts	58 N·m	43 lb ft	Differential Cooler Fitting 3/8 Inch	18 N·m	13 lb ft
Stabilizer Shaft Link Nuts	76 N·m	56 lb ft	Differential Cooler Mounting Bolts	10 N·m	89 lb in
Transverse Spring Retainer Bolts (Use New Bolts)	62 N·m	46 lb ft	Differential Cooler Pump Inlet Hose Retaining Bolt	10 N·m	89 lb in
Upper Control Arm Ball Joint Stud Nut			Drain Plug	35 N·m	26 lb ft
1st Pass	30 N·m	22 lb ft	Driveline Support Assembly-to-Eng Flywh Housing Bolts	50 N·m	37 lb ft
Fin Pass	225 deg		EBTCM LH Mounting Bracket Bolts	50 N·m	37 lb ft
Upper Control Arm Mounting Bolts	65 N·m	48 lb ft	Fill Plug	35 N·m	26 lb ft
Wheel Hub/Bearing Mounting Bolts	130 N·m	96 lb ft	Left Side Cover Bolts	30 N·m	22 lb ft
STEERING			Negative Battery Cable Bolt	15 N·m	11 lb ft
Adjuster Plug Lock Nut	68 N·m	50 lb ft	Pinion Housing/Cage Bolts	30 N·m	22 lb ft
Crossmember Mounting Nuts	110 N·m	81 lb ft	Pinion Nut	500 N·m	370 lb ft
Cylinder Line End Fittings	27 N·m	20 lb ft	Propeller Input Shaft Bearing Positioning Bolts	35 N·m	26 lb ft
Cylinder Line Valve End Fittings	17 N·m	13 lb in	Propeller Shaft Hub Clamp Bolt	130 N·m	96 lb ft
Inner Tie Rod	100 N·m	74 lb ft	Quick Connect - Left Cover - Some Models	18 N·m	13 lb ft
Intermediate Shaft to Steering Gear Pinch Bolt	27 N·m	20 lb ft	Rear Cover Bolts - Pump Bolts - Some Models	10 N·m	89 lb in
Outer Tie Rod End Stud Nut to Knuckle			Rear Suspension Crossmember Mounting Nuts	110 N·m	81 lb ft
1st Pass	20 N·m	15 lb ft	Right Side Cover Bolts	30 N·m	22 lb ft
Second Pass	160 deg		Ring Gear Bolts - 1st Design - No Serrations	145 N·m	107 lb ft
Fin Pass	45 N·m	33 lb ft	Ring Gear Bolts - 2nd Design - Serrations	195 N·m	144 lb ft
Power Steering Gear Mounting Bolt Nuts to Xmember	100 N·m	74 lb ft	Shift Control Closeout Boot Retaining Nuts	12 N·m	106 lb in
Power Steering Hose Fittings	27 N·m	20 lb ft	Shift Control Mounting Bolts	30 N·m	22 lb ft
Power Steering Pump Mounting Bolts	25 N·m	18 lb ft	Transaxle Mount Bracket-to-Differential Bolts	50 N·m	37 lb ft
Power Steering Reservoir Bracket Bolts to Eng	50 N·m	37 lb ft	Transaxle Mount-to-Bracket Nuts	59 N·m	43 lb ft
Power Steering Return Hose Mounting Bolts	11 N·m	97 lb in	Transaxle Mount-to-Rear Susp Crossmember Nuts	50 N·m	37 lb ft
Actuator Retaining Screws	9 N·m	80 lb in	Trans Cooler Rear Pipe Fitting-to-Junct Fittings at Flywh	27 N·m	20 lb ft
ColumnBracket Bolts Lower (Tighten in Order)	24 N·m	18 lb ft	Trans Shift Rod Clamp Bolt	30 N·m	22 lb ft
ColumnBracket Bolts Upper (Tighten in Order)	24 N·m	18 lb ft	Trans Stud Mount Bolts	10 N·m	89 lb in
Intermediate Shaft to the Steering Column Pinch Bolt	48 N·m	35 lb ft	Trans Stud-to-Mount	42 N·m	31 lb ft
Intermed Shaft to the Steering Gear Pinch Bolt	27 N·m	20 lb ft	Trans Wiring Harness-to-LH Trans Case Retaining Bolt	2.5 N·m	22 lb in
Intermed Shaft-Steer Gear Pinch Bolt Shield Screw	3.5 N·m	31 lb in	Vehicle Speed Sensor Bolt	10 N·m	89 lb in
Steering Column Support Screws	18 N·m	13 lb ft	Rear Drive Shaft Spindle Nut	160 N·m	118 lb ft
Steering Wheel Nut	41 N·m	30 lb ft	TRANSMISSION		
Telescope Drive Screw	7 N·m	62 lb in	Adapter Plate Plug	27 N·m	20 lb ft
Telescope Drive Bracket Screw	7 N·m	62 lb in	Adapter Plate to Trans Case Bolts	48 N·m	36 lb ft
Turn Signal Multifunction Sw Screws ECL Columns	7 N·m	62 lb in	Backup Lamp Switch	27 N·m	20 lb ft
Turn Signal Multi Sw Screws Non ECL Columns	1 N·m	9 lb in	Computer Aided Gear Select Sol	40 N·m	30 lb ft
DRIVETRAIN			Cover Plate Bolts	20 N·m	15 lb ft
Bearing Housing Assembly-to-Coupling Bolts	90 N·m	66 lb ft	Extension Housing Plug	27 N·m	20 lb ft
Clutch Actuator Cylinder Mounting Bolts	12 N·m	106 lb in	Extension Housing to Trans Case Bolts	48 N·m	36 lb ft
Coupling-to-Propeller Shaft Bolts - Manual Trans	90 N·m	66 lb ft	Neutral Return Cam Spring Retaining Bolt	25 N·m	18 lb ft
Driveline Tunnel Closeout Panel Bolts	10 N·m	89 lb in	Reverse Idler Shaft Bracket Bolts	25 N·m	18 lb ft
EBTCM LH Mounting Bracket Mounting Bolts	50 N·m	37 lb ft	Reverse Lockout Assembly Bolt	18 N·m	13 lb ft
Input Shaft Bearing Positioning Bolts	35 N·m	26 lb ft	Reverse Lockout Sol	40 N·m	30 lb ft
Input Shaft-to-Coupling Bolts - Manual Trans	90 N·m	66 lb ft	Shift Detent Assembly	40 N·m	30 lb ft
Negative Battery Cable Bolt	15 N·m	11 lb ft	Shift Guide Plate Bolts	22 N·m	16 lb ft
Propeller Shaft Balance Specification @ 3,500 RPM	6.0 G-CM	--	Shift Lever Guide Bolts	27 N·m	20 lb ft
Propeller Shaft Hub Clamp Bolt - Automatic Trans	125 N·m	93 lb ft	Temperature Switch (MZ6/MM6 Z06)	41 N·m	30 lb ft
Rear Exhaust Hanger Mounting Bolts	50 N·m	37 lb ft	Trans Case Drain Plug	18 N·m	13 lb ft
Rear Suspension Crossmember Mounting Nuts	110 N·m	81 lb ft	Trans Case Fill Plug	18 N·m	13 lb ft
Shift Control Closeout Boot Retaining Nuts	12 N·m	106 lb in	Trans Pump to Front Adapter Bolt	18 N·m	13 lb ft
Shift Control Mounting Bolts	30 N·m	22 lb ft			
Transaxle Mount Bracket-to-Differential Bolts	50 N·m	37 lb ft			
Transaxle Mount-to-Rear Suspension Xmember Nuts	50 N·m	37 lb ft			
TransCool Rear Pipe Front Fittings-Junct Fittings-Flywh	27 N·m	20 lb ft			
TransCooler Rear Pipe Rear Fittings-to-Trans Fittings	40 N·m	30 lb ft			
Trans Oil Cooler Rear Pipe Retaining Clamp Bolts	12 N·m	106 lb in			
Trans Shift Control Cable Bracket Retaining Nuts	20 N·m	15 lb ft			
Trans Shift Rod Clamp Bolt	30 N·m	22 lb ft			
Trans-to-Driveline Support Assembly Bolts/Studs	50 N·m	37 lb ft			
Trans Wiring Harness-to-LH Trans Case Retaining Bolt	2.5 N·m	22 lb in			
Carrier Assembly - Differential-to-Trans Bolts and Nuts	50 N·m	37 lb ft			
Cooler Bolts - Some Models	10 N·m	89 lb in			
Differential Case Bolts	55 N·m	41 lb ft			
Differential Cooler Lower Adapter Nut	25 N·m	19 lb ft			
Differential Cooler Fitting 1/2 Inch	28 N·m	21 lb ft			