

FASTENER TIGHTENING SPECIFICA...

FASTENER TIGHTENING SPECIFICATIONS (1.4L LUH, LUJ AND LUV) (ENGINE MECHANICAL - 1.2L Document ID# (L2Q LDC LWD) OR 1.4L (L2I L2N LDD LUH LUJ LUV)) 2366974

Fastener Tightening Specifications

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Application	Specification	
	Metric	English
Air Conditioning Compressor Bracket Bolts	22	16 lb ft
Camshaft Actuator	50 + 60 degrees	37 lb ft + 60 degrees
Camshaft Bearing Cap Bolts	8	71 lb in
Camshaft Cover Bolts	8	71 lb in
Camshaft Position Actuator Solenoid Valve	8	71 lb in
Camshaft Position Sensor Bolt	6	53 lb in
Camshaft Sprocket Bolt	50 + 60 degrees (1)	37 lb ft + 60 degrees (1)
Catalytic Converter Bracket to Cylinder Block	22	16 lb ft
Catalytic Converter to Bracket	22	16 lb ft
Catalytic Converter to Turbocharger (V-clamp)	13	115 lb in
Connecting Rod Bearing Cap	25 + 45 degrees (1)	18 lb ft + 45 degrees (1)
Crankshaft Balancer Bolt	150 + 45 degrees + 15 degrees (1)	111 lb ft + 45 degrees + 15 degrees (1)
Crankshaft Bearing Tie Plate Bolts (M6)	10 + 60 degrees + 15 degrees (1)	89 lb in + 60 degrees + 15 degrees (1)
Crankshaft Bearing Tie Plate Bolts (M8)	25 + 60 degrees + 15 degrees (1)	18 lb ft + 60 degrees + 15 degrees (1)
Crankshaft Position Sensor Bolt	8	71 lb in
Cylinder Head Bolts	35 + 180 degrees (1)	26 lb ft + 180 degrees (1)
Drive Belt Tensioner Bolt M8	22	16 lb ft
Drive Belt Tensioner Bolt M10	55	41 lb ft
Engine Cooling Thermostat Housing Bolts	8	71 lb in

Application	Specification	
	Metric	English
Engine Front Cover Bolts M10	35	26 lb ft
Engine Front Cover Bolts M6	8	71 lb in
Engine Mount Bracket Bolts	60 + 45-60 degrees (1)	44 lb ft + 45-60 degrees (1)
Engine Mount Right Side to Body	62	46 lb ft
Engine Mount Right Side to Engine Mount Bracket	50 + 60-75 degrees (1)	37 lb ft + 60-75 degrees (1)
Engine Oil Filter Cap	25	18 lb ft
Exhaust Manifold Heat Shield Bolts	8	71 lb in
Flywheel Bolts (Two-Mass)	60 + 45 degrees + 15 degrees (1)	44 lb ft + 45 degrees + 15 degrees (1)
Fuel Injection Rail to Intake Manifold	6	53 lb in
Generator to Cylinder Block and Engine Cover	35	26 lb ft
Ignition Coil Bolts	8	71 lb in
Intake Manifold Bolt	20	15 lb ft
Knock Sensor	20	15 lb ft
Oil Cooler Coolant Inlet Pipe to Oil Cooler	10	89 lb in
Oil Cooler to Engine Block	20	15 lb ft
Oil Cooler to Oil Filter Assembly (only bolts serviceable)	10	89 lb in
Oil Filler Plug to Engine Front Cover (M18)	30	22 lb ft
Oil Filter Assembly to Block	20	15 lb ft
Oil Gallery Plug in Engine Front Cover (M22)	60	44 lb ft
Oil Pan Bolt	10	89 lb in
Oil Pan Drain Plug	14	124 lb in
Oil Pressure Indicator	20	15 lb ft
Oil Pressure Relief Valve	50	37 lb ft
Oil Pump Cover Bolts	8	71 lb in

Application	Specification	
	Metric	English
Oil Pump Housing Plug (M10)	10	89 lb in
Oxygen Sensor to Exhaust Manifold	42	31 lb ft
Oxygen Sensor to Exhaust Front Pipe	42	31 lb ft
Piston Oil Nozzles to Block	25	18 lb ft
Spark Plugs	25	18 lb ft
Starter Bolts	25	18 lb ft
Throttle Body Bolts	9	80 lb in
Timing Chain Guide	8	71 lb in
Timing Chain Tensioner	8	71 lb in
Timing Chain Tensioner Plug	35	26 lb ft
Timing Chain Tensioner Shoe	20	15 lb ft
Turbocharger Coolant Feed Pipe to Engine Block	30	22 lb ft
Turbocharger Coolant Feed Pipe to Turbocharger (Quick Fitting)	20	15 lb ft
Turbocharger Coolant Return Pipe to Turbocharger (Quick Fitting)	20	15 lb ft
Turbocharger Oil Feed Pipe to Oil Cooler/Filter	8	71 lb in
Turbocharger Oil Feed Pipe to Turbocharger	30	22 lb ft
Turbocharger Oil Return Pipe to Turbocharger	8	71 lb in
Turbocharger to Cylinder Head	8 (1)	71 lb in (1)
Water Outlet	8	71 lb in
Water Pump Housing Bolts	8	71 lb in
Water Pump Drain Plug	15	11 lb ft
Water Pump Pulley Bolts	22	16 lb ft
1 = Use NEW Fastener.		

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