

## Engine Torque Specifications (ft-lb)

Counterweight / Flywheel Nut	290-360
Flex Plate to Counterweight (Auto)	32-45
Front Eccentric Shaft Bolt	80-98
Front Cover Bolts	12-17
Intake to Engine	14-19
Exhaust to Engine	23-24
Oil Metering Pump Bolts	5.8-8.0
Front Oil Pressure Regulator Cap Bolt	29-36
Oil Strainer	5.1-7.2
Oil Pan Bolts	5.8-8.0
Oil Pump to Engine Bolts	5.1-7.2
Oil Pump Sprocket Nut	23-34
Rear Oil Pressure Regulator	51-59
Oil Filter Adapter Nuts	5.8-8.0
Stationary Gear Bolts	12-17
Tension Bolts	23-29



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## Part Specifications (inches)

Cast Iron Housings	.0016
Limit of Warp	.0039
Stepped Wear Limit	
Rotor Housings	3.1485-3.15
Width	.0024
Max Variance in Width	
Corner Seal Wear Area	.003
Max Depth	
Rotor	
Width between Thrust Surfaces	3.142-3.144
Clearance of Cast Irons & Rotor	.004-.009
Apex Seals	
Apex Seal Clearance to Rotor Groove	.0024-.004
Standard	.006
Limit	
Apex Seal Springs	
Long Apex Spring (Free Height)	.246
Standard	.181
Limit	
Short Apex Spring (Free Height)	.13
Standard	.067
Limit	
Side Seal	
Thickness	.026-.027
Height	.112-.124
Corner Seal	
Outer Diameter	.4327-.4336
Height	.268-.276
Protrusion	.02
Oil Seals	
Oil Seal Lip Width	.02
Main Bearing	
Standard	.0016-.0031
Limit	.0039
Rotor Bearing Clearance	
Standard	.0016-.0031
Limit	.0039
Eccentric Shaft	
Main Journal Diameter	1.6918-1.6923
Rotor Journal Diameter	2.9122-2.9128
Max Run-Out	.0047
End Play	
Standard	.0016-.0028
Limit	.0035
Bearing Shells	
Main Bearing Inner Diameter	1.6939-1.6949
Rotor Bearing Inner Diameter	2.9144 - 2.9154



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