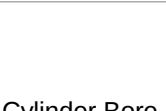
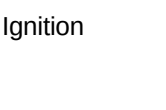


Kohler K-Series - Single Cylinder Engine Specifications & Tolerances

All dimensions in inches.

Model (Horsepower)			K91 (4)	K161 (7)	K181 (8)	K241 (10)	K301 (12)	K321 (14)	K341 (16)
General	Bore x Stroke		2.375 x 2.000	2.938 x 2.500	2.938 x 2.750	3.251 x 2.875	3.375 x 3.250	3.500 x 3.250	3.750 x 3.250
	Displacement Cu. In.		8.86	16.94	18.64	23.85	29.07	31.27	35.90
	Max. Operating RPM		4000	3600	3600	3600	3600	3600	3600
Balance Gear	Shaft O.D.	New	-	-	-	.4998/.5001	.4998/.5001	.4998/.5001	.4998/.5001
		Max Wear Limit	-	-	-	.4996	.4996	.4996	.4996
	End Play		-	-	-	.002/.010	.002/.010	.002/.010	.002/.010
Camshaft	End Play		.005/.020	.005/.010	.005/.010	.005/.010	.005/.010	.005/.010	.005/.010
Connecting Rod	Running Clearance	Rod to Crankpin (New)	.001/.0025	.001/.002	.001/.002	.001/.002	.001/.002	.001/.002	.001/.002
		Rod to Crankpin Wear Limit	.003	.0025	.0025	.0025	.0025	.0025	.0025
		Rod to Piston Pin (New)	.0007/.0008	.0006/.0011	.0006/.0011	.0003/.0008	.0003/.0008	.0003/.0008	.0003/.0008
	Small End I.D. (New)		.5630/.5633	.6255/.6258	.6255/.6258	.8596/.8599	.8757/.8760	.8757/.8760	.8757/.8760
Crankshaft	Main PTO & Flywheel End O.D.	New	.9841/.9844	1.1811/1.1814	1.1811/1.1814	1.5745/1.5749	1.5745/1.5749	1.5745/1.5749	1.5745/1.5749
		Max. Wear Limit	.9841	1.1811	1.1811	1.5745	1.5745	1.5745	1.5745
		New	.9360/.9355	1.1860/1.1855	1.1860/1.1855	1.5000/1.4995	1.5000/1.4995	1.5000/1.4995	1.5000/1.4995
		Max. Wear	.9350	1.1850	1.1850	1.4990	1.4990	1.4990	1.4990

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	Crankpin	Limit							
		Max. Out of Round	.0005	.0005	.0005	.0005	.0005	.0005	.0005
		Max. Taper	.001	.001	.001	.001	.001	.001	.001
	End Play		.004/.023	.002/.023	.002/.023	.003/.020	.003/.020	.003/.020	.003/.020
	Inside Diameter	New	2.3755/2.3745	2.9380/2.9370	2.9380/2.9370	3.2515/3.2505	3.3755/3.3745	3.5005/3.4995	3.7505/3.7495
		Max. Wear Limit	2.378	2.941	2.941	3.254	3.378	3.503	3.753
	Max. Out of Round		.003	.003	.003	.003	.003	.003	.003
	Max. Taper		.003	.003	.003	.002	.002	.002	.002
	Max. Out of Flatness		.003	.003	.003	.003	.003	.003	.003
	Spark Plug Type & Gap	Type ²	RCJ-8	RCJ-8	RCJ-8	RH-10	RH-10	RH-10	RH-10
		Battery	.025	.025	.025	.035	.035	.035	.035
		Magneto	.025	.025	.025	.025	.025	.025	.025
		Gaseous Fuels	.018	.018	.018	.018	.018	.018	.018
	Nominal Point Gap		.020	.020	.020	.020	.020	.020	.020
Model (Horsepower)			K91 (4)	K161 (7)	K181 (8)	K241 (10)	K301 (12)	K321 (14)	K341 (16)
	Service Replacement Sizes		.003 - .010 - .020 - .030						
	Thrust Face O.D. ³	New	2.371/2.369	2.9297/2.9281	2.9297/2.9281	3.2432/3.2413	3.368/3.365	3.4941/3.4925	3.7425/3.7410
		Max. Wear Limits	2.366	2.925	2.925	3.238	3.363	3.491	3.738
	Thrust Face to Bore Clearance (New) ¹		.0035/.006	.007/.010	.007/.010	.007/.010	.007/.010	.007/.010	.007/.010
	Ring End Gap	New Bore	.007/.017	.007/.017	.007/.017	.010/.020	.010/.020	.010/.020	.010/.020
		Used Bore	.027	.027	.027	.030	.030	.030	.030

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		(Max.)							
	Max. Ring side Clearance		.006	.006	.006	.006	.006	.006	.006
 Piston	Thrust Face O.D. ⁵	New	-	-	-	-	-	-	3.7465/3.7455
		Max. Wear Limits	-	-	-	-	-	-	3.744
	Thrust Face to Bore Clearance (New) ¹		-	-	-	-	-	-	.0030/.0050
	Ring End Gap	New Bore ⁶	-	-	-	-	-	-	.010/.020
		Used Bore (Max.) ⁶	-	-	-	-	-	-	.030
	Max. Ring Side Clearance		-	-	-	-	-	-	.004
 Piston	Thrust Face O.D. ⁵	New	-	-	2.9329/2.9336	-	3.3700/3.3693	3.4945/3.4938	3.7433/3.7426
		Max. Wear Limits	-	-	2.931	-	3.367	3.492	3.7406
	Thrust Face to Bore Clearance (New) ¹		-	-	.0034/.0051	-	.0045/.0062	.0050/.0067	.0062/.0079
	Ring End Gap	New Bore ⁶	-	-	.010/.023	-	.010/.020	.010/.020	.013/.025
		Used Bore (Max.) ⁶	-	-	.032	-	.030	.030	.033
	Max. Ring Side Clearance		-	-	.006	-	.006	.006	.004
Model (Horsepower)			K91 (4)	K161 (7)	K181 (8)	K241 (10)	K301 (12)	K321 (14)	K341 (16)
Piston Pin	Outside Diameter		.5623/.5625	.6247/.6249	.6247/.6249	.8591/.8593	.8752/.8754	.8752/.8754	.8752/.8754
	Guide Reamer Size		.250	.3125	.3125	.3125	.3125	.3125	.3125
	Tappet Clearance (Cold)	Intake	.005/.009	.006/.008	.006/.008	.008/.010	.008/.010	.008/.010	.008/.010 ⁴
		Exhaust	.011/.015	.017/.019	.017/.019	.017/.019	.017/.019	.017/.019	.017/.019

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Valves	Minimum Lift (Zero Lash)	Intake	.2035	.2718	.2718	.318	.318	.318	.318
		Exhaust	.1768	.2482	.2482	.318	.318	.318	.318
	Minimum Valve Stem O.D.	Intake	.2478	.3103	.3103	.3103	.3103	.3103	.3103
		Exhaust	.2458	.3088	.3088	.3074	.3074	.3074	.3074
	Nominal Angle Valve seat		45°	45°	45°	45°	45°	45°	45°
	Guide I.D. Max. Wear Limit ¹	Intake	.005	.005	.005	.006	.006	.006	.006
		Exhaust	.007	.007	.007	.008	.008	.008	.008

¹Subtract O.D. of inner part from I.D. of outer part.

²Champion spark plugs or equivalent

³Measure just below oil ring groove and at right angles to piston pin

⁴1800 RPM generator sets .005/ .007.

⁵Measure 1/2" above the bottom of the piston skirt

⁶Top and center compression rings