


Kohler K-Series - Twin Cylinder Engine Specifications & Tolerances


All dimensions in inches.

Model (Horsepower)		KT17 (17)	KT19 (19)	K582 (23)		
General	Bore x Stroke	3.125 x 2.750	3.125 x 3.063	3.500 x 3.000		
	Displacement Cu. In.	42.18	47.0	57.73		
	Max. Operating RPM	3600	3600	3600		
Camshaft	Sleeve I.D. Installed	-	-	Rear 1.251/1.252 Front 1.876/1.877		
	End Play	.003/.013	.003/.013	.003/.024		
Connecting Rod	Running Clearance	Rod to Crankpin (New)	.0012/.0024	.0012/.0024	.001/.002	
		Rod to Crankpin Wear Limit	.0029	.0029	.0025	
		Rod to Piston Pin (New)	.0006/.0011	.0006/.0011	.0003/.0008	
	Small End I.D. (New)	.6255/.6258	.7507/.7510	.8757/.8760		
Crankshaft	Main	Sleeve Bearing Journal	New	1.7412/1.7422	1.7412/1.7422	1.7495/1.7500
			Wear Limit	1.7407	1.7407	1.7490
		Ball/Roller Bearing Journal	New	-	-	1.7716/1.7721
			Wear Limit	-	-	1.7711
		Max. Out of Round (Sleeve)	.0005	.0005	.0005	
		Max. Taper (Sleeve)	.001	.001	.001	
		Running Clearance (Sleeve)	New (Max.)	.0049	.0049	.004
			Wear Limit ¹	.0059	.0059	.005

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		New Sleeve Bearing I.D. Installed	1.7439/1.7461	1.7439/1.7461	1.7515/1.7535
	Crankpin	New	1.3738/1.3733	1.4998/1.4993 ²	1.6250/1.6245
		Max. Wear Limit	1.3728	1.4988 ²	1.6240
		Max. Out of Round	.0005	.0005	.0005
		Max. Taper	.001	.001	.001
		End Play	.002/.014	.002/.014	.004/.010
Cylinder Bore	Inside New Diameter Max. Wear Limit		3.1255/3.1245	3.1255/3.1245	3.5005/3.4995
			3.128	3.128	3.503
	Max. Out of Round		.002	.002	.005
	Max. Taper		.0015	.0015	.002
Cylinder Head	Max. Out of Flatness		.003	.003	.003
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Ignition	Spark Plug Type & Gap	Type ³	RY17YC	RV17YC	RH-10
		Battery	.025	.025	.025
		Gaseous Fuels	.018	.018	.018
	Nominal Point Gap		.020	.020	.020
	Service Replacement Sizes		.003 - .010 - .020 - .030		
 Piston	Thrust Face O.D. ⁴	New	3.118/3.117	3.121/3.120	3.4941/3.4925
		Max. Wear Limits	3.113	3.113	3.491
	Thrust Face to Bore Clearance (New) ¹			.0065/.0085	.0035/.0055
	Ring End Gap	New Bore	.010/.020	.010/.020	.010/.020
		Used Bore (Max.)	.030	.030	.030

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		Max. Ring Side Clearance	.004	.004	.006
 Piston	Service Replacement Sizes		.003 - .010 - .020 - .030		
	Thrust Face O.D. ⁵	New	3.1210/3.1203	3.1215/3.1208	-
		Max. Wear Limits	3.118	3.119	-
	Thrust Face to Bore Clearance (New) ^{1,5}		.0035/.0052	.0030/.0047	-
	Ring End Gap	New Bore ⁶	.010/.020	.010/.023	-
		Used Bore (Max.) ⁶	.032	.032	-
	Max. Ring Side Clearance		.006	.006	
Piston Pin	Outside Diameter	.6247/.6249	.7499/.7501	.8752/1.8754	
Valves	Guide Reamer Size		.3125	.3125	.3125
	Tappet Clearance(Cold)	Intake	.003/.006	.003/.006	.008/.010
		Exhaust	.011/.014	.011/.014	.017/.020
	Minimum Lift (Zero Lash)	Intake	.280	.280	.318
		Exhaust	.280	.280	.318
	Minimum Valve Stem O.D.	Intake	.3103	.3103	.3103
		Exhaust	.3088	.3088	.3074
	Nominal Angle Valve Seat		45o	45o	45o
Guide I.D. Max. Wear Limit ¹	Intake	.005	.005	.006	
	Exhaust	.007	.007	.008	

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

²Pre Series II 1.3733/1.3738, Maximum Wear 1.3728.

³Champion spark plugs or equivalent.

⁴Measure just below oil ring groove and at right angles to piston pin.

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⁵Measure 1/2' above the bottom of the piston skirt.

⁶Top and center compression rings.