

Bill Weisman

FORGED HIGH PERFORMANCE PISTONS FOR

HARLEY DAVIDSON®

2009



W ■■■ HIGH PERFORMANCE PISTONS
Wossner®
RESEARCH & DEVELOPMENT
Manufacturer of forged pistons



We are the innovative specialists for high performance pistons. Our products are to be found in engines operating at the highest levels of motor sport, in competition and, of course, in everyday use – in fact, anywhere where longevity and operational noise are important factors.

Wössner pistons are the source of the superior power behind the success of well known motor sport teams at national and international race meets.

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PISTON KITS FOR HARLEY-DAVIDSON®

883 Evo Sportster to 1200cc & Overbore to 1200cc (73 cu. in.) 1986-2008

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 9.0:1 Reverse Dome



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8536DA-2	1200cc	3.501"	Std.	890XSY	CW20	WP921
K8536D025-2	1207cc	3.511"	+0.009"	892XSY	CW20	WP921
K8536D050-2	1214cc	3.521"	+0.019"	895XSY	CW20	WP921

1200 Evo Sportster (73 cu. in.) 1988-2003 & 1100 Evo Sportster 1986-87

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 9.5:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8618DA-2	1200cc	3.501"	Std.	890XSY	CW20	WP921
K8618D025-2	1207cc	3.511"	+0.009"	892XSY	CW20	WP921
K8618D050-2	1214cc	3.512"	+0.019"	895XSY	CW20	WP921
K8618D075-2	1221cc	3.531"	+0.029"	897XSY	CW20	WP921
K8618D100-2	1228cc	3.540"	+0.039"	900XSY	CW20	WP921

PISTON KITS FOR HARLEY-DAVIDSON®

1200 Sportster 2004-2007

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 10.5:1



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8619DA-2	1200cc	3.501"	Std.	890XSY	CW20	WP921
K8619D025-2	1207cc	3.511"	+0.009"	892XSY	CW20	WP921
K8619D050-2	1214cc	3.521"	+0.019"	895XSY	CW20	WP921

1200 Big Bore 3 13/16" (88 cu. in.) 2004-2007

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 10.5:1



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8620DA-2	1426cc	3.816"	Std.	970XSY	CW20	WP921

PISTON KITS FOR HARLEY-DAVIDSON®

1340 Evo Big Twin (80 cu. in.) 1984-1999

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 9.5:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8542D015-2	1340cc	3.501"	Std.	890XSY	CW20	WP921
K8542D065-2	1355cc	3.521"	+0.019"	895XSY	CW20	WP921
K8542D115-2	1370cc	3.540"	+0.039"	900XSY	CW20	WP921

1340 Big Bore Stroker Kit 1984-1999

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 9.5:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8621DA-2	1665cc	3.737"	Std.	950XSY	CW20	WP920

PISTON KITS FOR HARLEY-DAVIDSON[®]

**1340 Evo Big Twin to 1540cc
1984-1999**

Cases must be bored!

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 9.5:1 Flat Top



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8533DA-2	1540cc	3.737"	Std.	950XSY	CW20	WP920



PISTON KITS FOR HARLEY-DAVIDSON®

Buell XB9R Firebolt & XB9S Lightning

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 10:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8623DA-2	985cc	3.501"	Std.	890XSY	CW20	WP921
K8623D025-2	990cc	3.511"	+0.009"	892XSY	CW20	WP921
K8623D050-2	996cc	3.521"	+0.019"	895XSY	CW20	WP921

Buell XB9R Firebolt & XB9S Lightning

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 13:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8624DA-2	1170cc	3.816"	Std.	970XSY	CW20	WP920

PISTON KITS FOR HARLEY-DAVIDSON®

S1 White Lightning & Thunderbolt & Buell Models

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 10:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8625DA-2	1200cc	3.501"	Std.	890XSY	CW20	WP921
K8625D025-2	1207cc	3.511"	+0.009"	892XSY	CW20	WP921
K8625D050-2	1214cc	3.521"	+0.019"	895XSY	CW20	WP921
K8625D075-2	1221cc	3.531"	+0.029"	897XSY	CW20	WP921
K8625D100-2	1228cc	3.540"	+0.039"	900XSY	CW20	WP921

1200 Buell & XB12 R Firebolt & XB12S Lightning Race only

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 12:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8626DA-2	1200cc	3.501"	Std.	890XSY	CW20	WP921
K8626D025-2	1207cc	3.511"	+0.009"	892XSY	CW20	WP921
K8626D050-2	1214cc	3.521"	+0.019"	895XSY	CW20	WP921

PISTON KITS FOR HARLEY-DAVIDSON®

**1200 Buell & XB12R Firebolt
& XB12S Lightning Big Bore 3 13/16" (88 cu. in.)**

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 10.5:1 Reverse Dome



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8629DA-2	1426cc	3.816"	Std.	970XSY	CW20	WP920

**1200 Buell & XB12R Firebolt
& XB12S Lightning Big Bore
Race only**

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 14:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8628DA-2	1426cc	3.816"	Std.	970XSY	CW20	WP920

PISTON KITS FOR HARLEY-DAVIDSON®

Twin Cam 88" (88 cu. in.) 1999-2007

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 8.5:1 Flat Top



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8594D025-2	1453cc	3.757"	+0.009"	955XSY	CW23x1.6	WP956
K8594D075-2	1468cc	3.777"	+0.029"	960XSY	CW23x1.6	WP956
K8594D125-2	1483cc	3.797"	+0.049"	965XSY	CW23x1.6	WP956
K8594D175-2	1499cc	3.816"	+0.068"	970XSY	CW23x1.6	WP956
K8594D225-2	1514cc	3.836"	+0.088"	975XSY	CW23x1.6	WP956
K8594D275-2	1530cc	3.856"	+0.108"	980XSY	CW23x1.6	WP956
K8594D375-2	1561cc	3.895"	+0.147"	990XSY	CW23x1.6	WP956
K8594D425-2	1577cc	3.915"	+0.167"	995XSY	CW23x1.6	WP956
K8594D475-2	1593cc	3.935"	+0.187"	1000XSY	CW23x1.6	WP956



PISTON KITS FOR HARLEY-DAVIDSON®

Twin Cam 88" (88 cu. in.) 1999-2007

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 10:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8595D025-2	1453cc	3.757"	+0.009"	955XSX	CW23x1.6	WP956
K8595D075-2	1468cc	3.777"	+0.029"	960XSX	CW23x1.6	WP956
K8595D125-2	1483cc	3.797"	+0.049"	965XSX	CW23x1.6	WP956
K8595D175-2	1499cc	3.816"	+0.068"	970XSX	CW23x1.6	WP956
K8595D225-2	1514cc	3.836"	+0.088"	975XSX	CW23x1.6	WP956
K8595D275-2	1530cc	3.856"	+0.108"	980XSX	CW23x1.6	WP956
K8595D375-2	1561cc	3.895"	+0.147"	990XSX	CW23x1.6	WP956
K8595D425-2	1577cc	3.915"	+0.167"	995XSX	CW23x1.6	WP956
K8595D475-2	1593cc	3.935"	+0.187"	1000XSX	CW23x1.6	WP956

Twin Cam 88" Big Bore (100 cu. in.) 1999-2007

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 10:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8634DA-2	1650cc	4.000"	+0.251"	1016XSU	CW23x1.6	WP956

PISTON KITS FOR HARLEY-DAVIDSON®

Revtech 100"

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: Reverse Dome



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
8685DA-2Red	-	3.810"	Std.	-	CW20	WP921
8685DA-2Blue	-	3.810"	+0.006"	-	CW20	WP921
8685DA-2Yellow	-	3.810"	+0.017"	-	CW20	WP921

Revtech 110"

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: Flat Top



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
8684DA-2Red	-	3.996"	Std.	1016XSU	CW20	WP921
8684DA-2Blue	-	3.997"	+0.09"	1016XSU	CW20	WP921
8684DA-2Yellow	-	3.997"	+0.017"	1016XSU	CW20	WP921

PISTON KITS FOR HARLEY-DAVIDSON®

XR750 2-Ring Version all

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 12.5:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8680DA-2	-	3.156"	Std.	802XDS	CW20	WP921

XR750 3-Ring Version all

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 12.5:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8681DA-2	-	3.156"	Std.	802XDS	CW20	WP921

PISTON KITS FOR HARLEY-DAVIDSON®

1340 Shovelhead (80 cu. in.) 1978-1984

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 8.5:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
8684DA-2	1340cc	3.501"	Std.	890XSY	CW20	WP993
8684D025-2	1345cc	3.511"	+0.011"	892XSY	CW20	WP993
8684D050-2	1353cc	3.521"	+0.021"	895XSY	CW20	WP993
8684D100-2	1361cc	3.540"	+0.040"	900XSY	CW20	WP993
8684D150-2	1367cc	3.560"	+0.060"	905XSY	CW20	WP993

1200 (74 cu. in.) FL-FLH Panhead 1948-1965 & Shovelhead 1966-1977

Includes: Forged high performance pistons (skirt coated)
rings, clips, pins

Compression ratio: 8.5:1 Domed



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
8688DA-2	1200cc	3.437"	Std.	875XSY	CW20	WP993
8688D025-2	1213cc	3.444"	+0.006"	875XSY	CW20	WP993
8688D050-2	1220cc	3.464"	+0.023"	880XSY	CW20	WP993
8688D100-2	1234cc	3.484"	+0.047"	885XSY	CW20	WP993
8688D150-2	1249cc	3.503"	+0.066"	890XSY	CW20	WP993
8688D200-2	1263cc	3.523"	+0.086"	895XSY	CW20	WP993

PISTON KITS FOR HARLEY-DAVIDSON[®]

**V-Rod (VRSCA) 1130cc
 2001-2008**

Includes: Forged high performance pistons (skirt coated)
 rings, clips, pins

Compression ratio: 12:1 Reverse Dome



Piston Kit Part No.	Displ. (cc)	Piston Size (inch)	Over-sizes (inch)	Ring Set Part No.	Clip Part No.	Pin Part No.
K8698DA-2	1130cc	3.937"	Std.	1000XSY	CW22	WP909

Winner in Beulah Parc,
 Grove City OH:
 Brian Smith at
 Wössner pistons



RINGLIST



Material
Top Ring: Steel
Second Ring: Cast
Oil Ring: -

Part No.	Ø (inch)	Top Ring (inch)	Second Ring (inch)	Oil Ring (inch)
802XDS	3.159	0.039	0.047	0.079
890XSY	3.504	0.039	0.047	0.098
892XSY	3.514	0.039	0.047	0.098
895XSY	3.524	0.039	0.047	0.098
897XSY	3.533	0.039	0.047	0.098
900XSY	3.543	0.039	0.047	0.098
950XSY	3.740	0.039	0.047	0.098
955XSY	3.760	0.039	0.047	0.098
960XSY	3.780	0.039	0.047	0.098
965XSY	3.799	0.039	0.047	0.098
970XSY	3.819	0.039	0.047	0.098
975XSY	3.839	0.039	0.047	0.098
980XSY	3.858	0.039	0.047	0.098
990XSY	3.898	0.039	0.047	0.098
995XSY	3.919	0.039	0.047	0.098
1000XSY	3.937	0.039	0.047	0.098
1016XSU	4.000	0.047	0.059	0.098

Recommendation for the installation of piston ring sets

The rings are installed with suitable piston ring pliers, starting with the lowest ring. Excessive opening of the rings is to be avoided, since this could lead to deformation of the rings. If the rings are deformed, they are no longer able to provide a perfect seal.

It is of vital importance that the mark be observed.

Rings that have the mark (TE/diameter) are to be fitted with the marking facing upwards towards the piston crown. Special care is needed for the installation of steel rail rings. After the spring has been loaded, the rails are to be mounted so that rail end gaps point towards the pin hole. When the upper rail is being installed, the ends of the spring must be held together so as to prevent overlapping. After this, the lower rail is to be installed. In the case of pistons with rotation prevention in the ring grooves, care must be taken to ensure that the ring gaps are positioned alongside the securing pins.

After the rings have been installed, the ring end gaps are to be spread evenly around the circumference (for example at 120 degree intervals for a 3-ring piston).

Ring end gap: from 80.00 mm (3.150") up to 101.60 mm (4.000") 0,30 mm – 0,50 mm (0.012" – 0.020")

PINLIST



DLC (Diamond-Like Carbon) is an extremely hard, wear resistant coating with a very low friction coefficient of 0.1 – 0.15.

Our DLC coated pins offer a micro hardness between 2800 and 3000 HV.

Part No.	OD (inch)	ID (inch)	Lenght (inch)	Weight (gr.)
WP920	0.792	0.472	2.008	73
WP921	0.792	0.472	2.205	82
WP956	0.927	0.626	2.205	96
WP909	0.866	0.551	2.007	76
WP993	0.792	0.511	2.834	104

Wössner GmbH - LIMITED PISTON WARRANTY

Wössner warrants this product will be free from defects in material and workmanship for thirty (30) days following date of original purchase. If the product is found by Wössner to be defective, such products will, at Wössner's option, be replaced or repaired at cost to Wössner. All products alleged by Purchaser to be defective must be returned to Wössner, postage prepaid, within thirty (30) days warranty period. This limited warranty does not cover labor or other costs or expenses incidental to the repair and/or replacement of products or parts. This limited warranty does not apply to any product which has been used in a hi-performance application, or racing or is subject to misuse, mishandling misapplication neglect (including but not limited to improper maintenance), accident, improper installation, modification (including but not limited to use of unauthorized parts or attachments) or adjustment or repair performed by anyone other than Wössner. The parties hereto expressly agree that the purchaser's sole and exclusive remedy against Wössner shall be for the repair or replacement of the defective product as provided in this limited warranty. This exclusive remedy shall not be deemed to have failed of its essential purpose so long as Wössner is willing and able to repair or replace defective goods.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOT EXPRESSLY SET FORTH HEREIN ANY PRODUCT WHICH MAY BE SOLD BY WÖSSNER BUT WHICH IS NOT MANUFACTURED BY WÖSSNER IS NOT WARRANTED BY WÖSSNER, BUT IS SOLD ONLY WITH THE WARRANTIES, IF ANY, OF THE MANUFACTURERS THEREOF.

Wössner's liability (whether under the theories of breach of contract or warranty, negligence or strict liability) for its products shall be limited to repairing or replacing parts found by Wössner to be defective, or at Wössner's option, to refund the purchase price of such product. In no event shall Wössner be liable for incidental or consequential damages arising out of or in connection with the product. Consequential damages shall include, without limitation, loss of use, income or profit, or losses sustained as the result of injury (including death) to any person, or loss of or damage to property. Any claim by purchaser regarding this product shall be deemed waived by the purchaser unless submitted in writing to Wössner within the earlier of (i) fifteen (15) days following the date purchaser discovered, or by reasonable inspection should have discovered, any claimed breach of this limited warranty, or (ii) thirty (30) days following the date of original purchase. Any cause of action for breach of this limited warranty shall be brought within six months from the date the alleged breach was discovered or should have been discovered, whichever occurs first. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

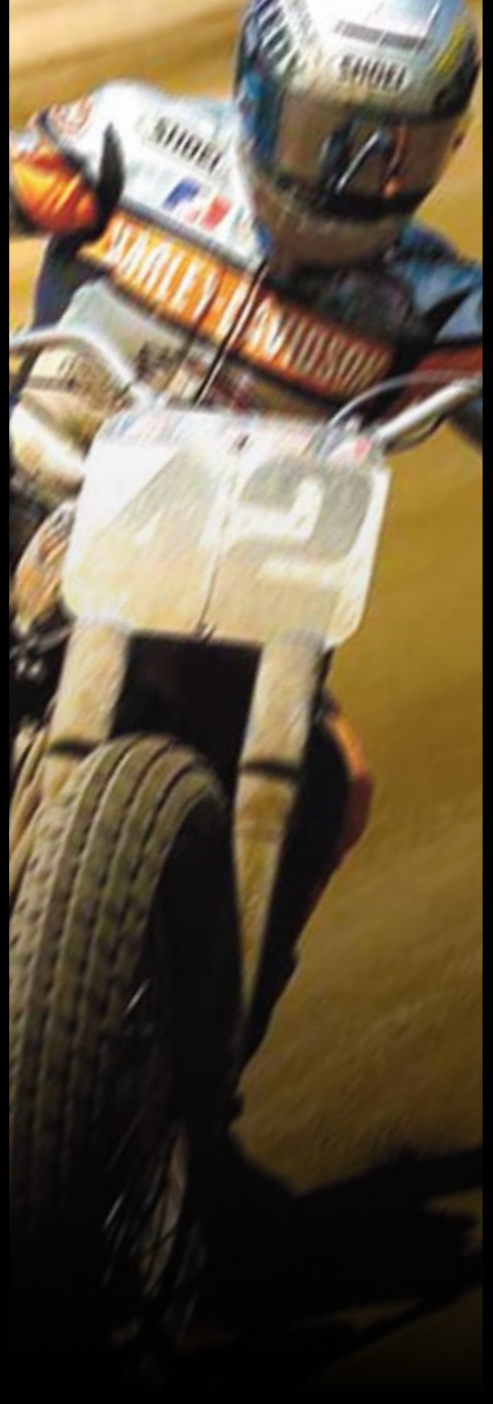
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