



INSTRUCTIONS

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For model fitment information, see the Zodiac Online Catalog at <https://catalog.zodiac.nl> (available in English, German, French, Spanish and Italian)

Harley-Davidson, Buell and S&S V-Twin bore, stroke and displacement

Bore, stroke and displacement is listed as Harley, Buell or S&S has indicated them. For the purists: In most instances the formula to calculate displacement for 2 cylinders ($V = \pi r^2 h * 2$) gives something different, but close. A 80CI Evolution Big Twin, for example, has a real displacement of 81.751CI or 1,339.66cc)

Displacement	Engine	Bore	Stroke
45CI 750cc	K, WL & G models	2 3/4"	3 13/16"
46CI 750cc	XG Street	3.350"	2.600"
54CI 883cc	XL Sportster	3"	3 13/16"
54CI 900cc	XL Sportster	3"	3 13/16"
54CI 900cc	KH models	3"	3 13/16"
59.5CI 975cc	Revolution Max RH975 Sportster 2022-up	3.82"	2.6"
76CI 1,246cc	2021-up	4.13"	2.83"
60CI 984cc	2003-2009 Buell XB9	3 1/2"	3 1/8"
61CI 1,000cc	XL Sportster	3 3/16"	3 13/16"
74CI 1,100cc	XL Sportster	3.350"	3 13/16"
74CI 1,200cc	XL Sportster	3 1/2"	3 13/16"
74CI 1,200cc	1994-2002 & 2003-2010 XB12 Buell	3 1/2"	3 13/16"
69CI 1,130cc	2002-2007 V-Rod	3 15/16"	2.835"
76CI 1,246cc	Revolution Max 2021-up RA1250 & RH1250	4.13"	2.83"
76CI 1,250cc	2008-2017 V-Rod	4.134"	2.835"
100CI 1,647cc	S&S X100	4"	4"

Big Twin

Displacement	Engine	Bore	Stroke
61CI 1,000cc	1936-1947 Knucklehead	3 5/16"	3 1/2"
74CI 1,200cc	1930-1948 Flathead	3 5/16"	4 9/32"
74CI 1,200cc	1948-1965 Panhead	3 7/16"	3 31/32"
74CI 1,200cc	1966-1977 Shovelhead	3 7/16"	3 31/32"
80CI 1,300cc	1940-1948 Flathead	3 27/64"	4 9/32"
80CI 1,340cc	1978-1984 Shovelhead	3 1/2"	4 1/4"
80CI 1,340cc	1984-2000 Evolution	3 1/2"	4 1/4"
80CI 1,340cc	S&S SH80	3 1/2"	4 1/4"
93CI 1,530cc	S&S KN93, P93, SH93	3 5/8"	4 1/2"
96CI 1,575cc	S&S V96	3 5/8"	4 5/8"
103CI 1,691cc	S&S P103, SH103	3 5/8"	5"
107CI 1,754cc	S&S V107	4"	4 1/4"
111CI 1,807cc	S&S V111	4 1/8"	4 1/8"
113CI 1,852cc	S&S V113	4"	4 5/8"
124CI 2,035cc	S&S V124	4 1/8"	4 5/8"

Twin Cam

Displacement	Engine	Bore	Stroke
88CI 1,450cc	1999-2006	3 3/4"	4"
95CI 1,557cc	2000-2004	3 7/8"	4"
96CI 1,573cc	2007-2017	3 3/4"	4 3/8"
103CI 1,690cc	2005-2017	3 7/8"	4 3/8"
110CI 1,803cc	2007-2017	4"	4 3/8"
111CI 1,807cc	S&S T111	4 1/8"	4 1/8"
120CI 1,967cc	2011-2017 120R	4 1/16"	4 5/8"
124CI 2,026cc	S&S T124	4 1/8"	4 5/8"
143CI 2,231cc	S&S T143	4.425"	4 5/8"

Milwaukee Eight

Displacement	Engine	Bore	Stroke
107CI 1,753cc	2017-up	3 15/16"	4 3/8"
114CI 1,868cc	2017-up	4 1/64"	4 1/2"
117CI 1,917cc	2018-up	4 5/64"	4 1/2"
121CI 1,977cc	2023-up VVT	4.075"	4 5/8"
124CI 2,035cc	107CI with S&S BigBore kit	4 1/4"	4 3/8"
128CI 2,100cc	114 or 117 with S&S BigBore kit	4 1/4"	4 1/2"