



## Harley Davidson Honing Plates



Honing Plate Kits are available for the Harley Davidson Shovel Head, Evolution and Twin-Cam engines. Kits are supplied with a Base Plate, which features side clamping of the spigot area on the Jug to address the recurring problem of spigot deflection during honing. This is especially prevalent in large-bore applications and will eliminate additional clearance that would be necessary to achieve correct piston to cylinder wall clearance.

The Plate allows the user to hone straight, round bores through the full length of the Jug. The Plate also has tapped holes in the bottom surface to facilitate clamping onto most honing machines.

The Shovel/Evolution Kit is supplied with the above Base Plate machined with a dual bolt pattern to accept both Shovel Head and Evolution Jugs. Two Honing Plates are included, to accommodate each engine type. A Hardware Kit containing all the fasteners needed to simulate the assembled engine condition for both setups is also included.

The Twin-Cam Kit is supplied with the above Base Plate machined with the bolt pattern to accept the Twin-Cam Jug and one Honing Plate. A Hardware Kit containing all the fasteners needed to simulate the assembled engine condition is also included.

## Small Engine Honing Plates



Honing Plates are also available for all small engine applications including Briggs & Stratton, Honda, Kohler, Tecumseh and many others. The cylinders in these engines undergo the same distortions as other applications and require the same degree of accuracy during honing for performance applications such as racing and sled pulling.

Plates are machined from 1" thick, 6061T6 billet aluminum, and fit all specific combustion chambers exactly. Head-bolt spacer tubes are supplied as necessary to allow the use of the OEM head bolts to give proper depth of penetration into the threaded head-bolt holes.

Kits include one precision honing plate per cylinder and the appropriate number of head bolt Spacers for any given application.

## Heat Treated Steel Inserts (HTI)



For years B H J has supplied heat-treated alloy Steel Inserts (T-Washers) as an installed option in our honing plates. These high-quality, precision-machined Inserts are also available separately for installation in aluminum cylinder heads to prevent galling and deterioration of the head under the stud or head-bolt washer while increasing longevity of the seating surface.

Inserts are available for 3/8" (10mm), 7/16" (11mm), 1/2" (12mm) and 9/16" (14mm) diameter head bolts or studs in bulk quantities.

## Honing Plate & Head Bolt Washers (HPW)

The same high quality Washers that are supplied with B H J Honing Plates are also available separately for use as a head bolt or stud washer. The durability of these Washers has been proven by their daily, repeated use on honing plates by some of the largest production engine rebuilders in the country. Washers are manufactured from C1050 high carbon steel and heat-treated to HRC 45-50 making them stronger than competitive brands and an excellent choice for use in your engine assembly.

These Washers are available in sizes to suit 3/8" (10mm), 7/16" (11mm), 1/2" (12mm) and 9/16" (14mm) diameter head bolts or studs in bulk quantities.