

ZPN 741177

STANDARD OUTER DIAMETER (.8425")BIG TWIN HYDROSOLID TAPPET

Fits 1984 thru 1999 Evolution *Big Twin* and 1986-thru 1990 *Sportster*, and 1987 thru 1990 *Buell*. **MUST BE INSTALLED AND USED WITH ADJUSTABLE PUSH RODS**

Hydrosolids will be adjusted as a solid lifter in a cold engine. Have them installed by a professional mechanic when you are not familiar solid lifter adjustment. Serious valve train motor damage will result when not installed properly.

1. Refer to the related OEM Harley-Davidson Service Manual for tappet installation. When you install a cam and/or tappet blocks at the same time you should follow cam and/or tappet block instructions.
2. Place the front piston at TDC compression.
3. With all four Hydrosolids installed start with the front intake pushrod making sure tappet is at the lowest point on the cam.
4. Extend the pushrod adjuster to zero lash (no up and down free play. Example: If your push rods have 24 threads per inch extend pushrod 5 hex wrench flats) this adjustment will bleed the Hydrosolid tappet, which may take 5-15 minutes or longer to bleed off oil pressure. What we're looking for is a pushrod that just barely turns with your fingers. If after 15 minutes the pushrod is still turning easily, extend the pushrod until you can just barely turn pushrod with your fingers. If you can barely turn the push rods with your fingers and the Hydrosolids are at the lowest point on the cam, then they have been adjusted properly.
5. CAUTION: DO NOT rotate engine if you cannot turn pushrod with your fingers.
6. Repeat exact procedure for the next three push rods, making sure to be on the lowest position of cam for the tappet you're adjusting.

MAINTENANCE FOR HYDROSOLIDS IS AS FOLLOWS:

1. New motors, after the first 50 miles (80 km) (at time of first oil change), check adjustment of pushrods. You should still be able to turn them with your fingers.
2. After 200 miles (320 km), re-adjust if needed and as needed until all your motor parts are seated.
3. Recheck as you would for solid tappets, at about 2,000 mile (3,200 km) intervals.

PUSHROD ADJUSTMENTS FOR HYDROSOLIDS - A STARTING POINT ONLY				
Threads Distance per Inch	Hex Wrench Flats	Total Travel Distance	Distance Per Turn	Per One Hex Flat
24	5	.0345"	.0414"	.0069"
28	6	.0354"	.0354"	.0059"
32	7	.0364"	.0312"	.0052"
36	8	.0360"	.0270"	.0045"
40	8	.0336"	.0252"	.0042"
52	11	.0352"	.0192"	.0032"