Instruction Sheet For Part No.1800



BIG TWIN HYDROSOLID TAPPET

This tappet replaces and surpasses H.D.® No.18523-86 and S & S® No.33-5341.

No.**1800** - *Use on Big Twin 1984-99, Sportster 1986-90 and Buell® 1987-90. Standard O.D. .8425.*

Safely add more horse power to your higher RPM levels with a simple installation of Hydrosolids, use on any cam, be it a solid or hydraulic cam, and receive 3 to 6 more usable horsepower after about 5600 RPM. To the safest RPM level possible for your valve train. Hydrosolids have a built in anti pump-up device. So at the time your springs start to surge and go into a harmonized distortion causing the tappet rollers to through a lofting off the back side of your cam, the hydro-solids will not pump-up to allow your valves to hit each other.

NOTE: Hydrosolids will be adjusted as a solid lifter in a cool motor only. If you are unfamiliar with solid lifter adjustment, seek professional help. Otherwise serious valve train motor damage will result.

READ ALL INSTRUCTIONS BEFORE STARTING JOB

1. Refer to H.D.® Service Manual for tappet installation. If installing a cam and tappet blocks at the same time follow those 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. See pushrod adjustment chart and follow adjustments for your particular pushrod. Example: If your pushrods 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 pushrods with your fingers and the Hydrosolids are at the lowest point on the cam, then they have been adjusted properly.
5. CAUTION: If you cannot turn pushrod with your fingers DO NOT rotate engine.
6. Repeat exact procedure for the next three pushrods, 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 (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, readjust 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 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″

Popular Pushrods

JIMS® Pro-lite	*24*	*No.s 2380, 2400*
Slim Jims	*32*	*No.s 2404, 2369*
Andrews	28	
Andrews	32	
Crane	28	New Time Savers
Crane	24	Old Time Savers
Crane	32	
H.D.	32	
S & S	32	
Screamin Egl.	32	
Rivera	40	Taper Lite
Rev Tech	36	

CAUTION: Wear safety glasses. Excessive force may damage parts and tool. See JIMS® catalog for over 200 other top quality professional tools. The last tools you will ever need to buy.