# Instruction Sheet For Part No.1802

## TWIN CAM 88™ HYDROSOLID TAPPET

This tappet replaces and surpasses H.D® No.18538-99.

No.**1802** - *Use on Twin Cam 88™, standard O.D. is .8425", Sportster 2000-present, and Buell® 2000-present.*

***NOTE: FOR USE ON ADJUSTABLE PUSH RODS ONLY***

JIMS® Twin Cam 88™ Hydrosolid™ tappets are designed to be used in high performance engines where power is the bottom line. This tappet performs like a hydraulic tappet from start-up to about 5500 RPM where it then behaves as a solid tappet from 5600 RPM on. At the same time it becomes a solid, it also adds 3-6 more usable horsepower. JIMS® Hydrosolid™ tappets are simply the best tappet you can buy for high output engines. Call JIMS® for other Hydroslid™ applications available.

Use with JIMS® new No.1043 Twin Cam Tappet Cover when using any stock to mild lift cams.

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. *Continued on back -->*

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.



No.1802-IS

Rev B
11/04

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*"From The Track... To The Street!"*

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*<-- Continued from front*

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 figers.
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 | |



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