



## INSTRUCTION SHEET FOR TOOL #2428

### PERFORMANCE "POWERGLIDE™" KIT (SHOVELHEAD) USE ON BIG TWIN 1966-84



1. Please read all instructions before starting the job. Refer to H.D.® Service Manual for specifications.
2. Remove tappets and tappet blocks per H.D.® Service Manual.
3. Remove all old gasket material and keep all foreign material out of tappet block holes.
4. Wash pushrod cover; install new seals.
5. These tappets will work best in JIMS® tappet block #1095, 1095C or stock H-D with a running clearance of .0007-.0012.
6. Install tappets in blocks with oil holes facing each other in the blocks.
7. JIMS® Power Glide tappets are assembled with a small amount of oil to ease in the adjustment. This way you will not have to bleed down the tappet at the time of final adjustment.
8. Apply assembly lube to tappets and rollers. Slip tappets into blocks and install blocks.
9. With both blocks in place on case, use JIMS® Tool #33443-84 to align blocks in case if your case has 1/4-20 mounting holes. Lube tool and screw into the tappet screw hole to center block into case. Tighten to 30in/lb. Apply lube to the other three screws and torque to 30 in/lb. Install the other block the same way. Remove tool and install last lubed screw and finish torquing to 120 in/lb in a criss-cross pattern at 30 in/lb increments.
10. This is a good time to clean the tappet screen.
11. Locate the front pushrod (laser indicated front or rear on part) and covers first. Apply assembly lube to top and bottom ends and threads of pushrods. (Note: Front and rear exhaust pushrods are the longest.) With the front intake tappet at the lowest point on cam, adjust pushrod with thumb and finger just until you eliminate all up-and-down movement.
12. Extend pushrod adjuster 9 wrench flats or 1 1/2 full turns. Tighten lock nut.
13. Recheck lock nut, close covers and install clips.
14. Repeat exact procedure on the other 3 (Note: make sure tappets are at the lowest point for adjustments.)
15. Turn motor over several times until oil pumps into the powerglide tappets, or until the oil light goes out, or until oil is returning to the oil tank.

#### **IMPORTANT NOTE:**

*This adjustment will make the pushrod tight, which will bleed the hydraulic lifter. It will take 10-15 minutes or longer to bleed off. It is important that the engine is not rotated while pushrods are tight. The pushrod will spin with your fingers after it has bled off properly. Tighten lock nut, recheck, close cover and install clips. Repeat exact procedure on other pushrods. Turn motor over several times to pump oil into the power glide tappet until the oil light goes out, or until oil is returning to the oil tank.*

**CAUTION: WEAR SAFETY GLASSES. EXCESSIVE FORCE MAY DAMAGE PARTS AND TOOL. SEE JIMS® CATALOG FOR OVER 100 OTHER TOP QUALITY PROFESSIONAL TOOLS. THE LAST TOOLS YOU WILL EVER NEED TO BUY.**

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### WARRANTY

All JIMS parts are guaranteed to the original purchaser to be free of manufacturing defects in materials and workmanship for a period of six (6) months from the date of purchase. Merchandise that fails to conform to these conditions will be repaired or replaced at JIMS option if the parts are returned to us by the dealer (purchaser) within the six (6) month warranty period or within ten (10) days thereafter.

In the event warranty service is required, the original purchaser must call or write JIMS immediately with the problem. Some problems can be rectified by a telephone call and need no further course of action. A part suspected of being defective must not be replaced by a dealer without prior authorization from JIMS. If it is deemed necessary for JIMS to make an evaluation to determine whether the part is defective, it must be packaged properly to prevent further damage and be returned prepaid to JIMS with a copy of the original invoice of purchase and a detailed letter outlining the nature of the problem, how the part was used and the circumstances at the time of failure. If after an evaluation has been made by JIMS and the part was found to be defective, repair, replacement or credit will be granted.

### ADDITIONAL WARRANTY PROVISIONS

- 1.) JIMS shall have no obligation in the event a JIMS part is modified by any other person or organization.
- 2.) JIMS shall have no obligation if a JIMS part becomes defective in whole or in part as a result of improper installation, improper maintenance, improper use, abnormal operation, or any other misuse or mistreatment of the part.
- 3.) JIMS shall not be liable for any consequential or incidental damages resulting from the failure of a JIMS part, the breach of any warranties, the failure to deliver, delay in delivery, delivery in non-conforming condition, or for any other breach of contract or duty between JIMS and a customer.
- 4.) JIMS parts are designed exclusively for use in Harley-Davidson® Motorcycles. JIMS shall have no warranty or liability obligation if a JIMS part is used in any other application.
- 5.) If it has been determined that one or more of the tappets needs to be returned to JIMS for inspection the following must be carried out before returning.
  - A.) As each tappet (one at a time) is removed from the engine it must be cleaned so it can be marked with grease pencil or a similar marker that will not come off during shipping.

**Caution:** Do not use a scribe, electric pencil or any other type of marking that will damage the tappets surfaces, all warrants will be void if any permanent marking is used.

- B) Mark each tappet for its location i.e. front or rear, intake or exhaust; all marked for the side that was facing the cylinders.

Example: Rear Intake with a "C" on the side of tappet that had faced the cylinders, R/I/C

Note: If tappets have been revised and marked as above they will be repaired or replaced as required. If repaired and returned they must be installed in the same location they were removed from. If any are replaced they will be marked for there location.

Example: F/I, for front intake.

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