

INSTRUCTION SHEET FOR #1029-53B, 1029-53C,1029ACAB, 1029ACAB2 & 1029ACAB5

"POWER GLIDETM" TAPPET BLOCK KIT

No.**1029-53B** - Polished, with gaskets fits Pan 1953-65 & Shovel Big Twins 1966-84. No.**1029-53C** - Chrome, with gaskets fits Pan 1953-65 & Shovel Big Twins 1966-84.

USE ON PAN BIG TWIN 1953-65 USE ON SHOVEL BIG TWIN 1966-84

REPLACEMENT TAPPETS

No.1029ACAB - Standard replacement tappet No.1029ACAB2 - .002" Oversize replacement tappet No.1029ACAB5 - .005" Oversize replacement tappet



Please read all instructions thoroughly before starting this job.

- 1. Remove tappets and tappet blocks per H-D® Service Manual.
- 2. Remove all old gasket material and keep all foreign material out of tappet block holes. If you were using the stock hydraulic units you can use the same pushrods. If you were using solid tappets you need hydraulic style pushrods. For Shovel motors use JIMS®

No.2369 or H-D[®] No.17904-66, or equivalent - for Panhead motors use JIMS[®] No.2404 or H-D[®] No.17905-53B or equivalent.

- 3. Wash pushrods and pushrod covers, install new seals.
- 4. *Check for correct thread pitch and style of tappet screws pertaining to year of application. Tappet blocks can be countersunk for early style screws.
- 5. **Note:** These blocks are designed to accommodate a gross valve lift of .550 at the valve, this is about .385 at the cam. You will need at least .035 roller to block clearance with any cam being used. To check for this do the following: With a tappet in rear block, no base gasket, one tappet at a time, Cam lobe for the one that you are checking at the highest point of lift. Slide the assembly into the motor. (**Note:** if the tappet block flange does not touch the motor case during this trial assembly, remove material as needed to give the necessary .035" of up and down tappet movement) With the assembly still in motor snug with JIMS® tool #33443-84 to about 30 in./lb. (**Note:** Use JIMS® tool #33443-84 only if your case has 1/4-20 threads.) Now check again for .035" free movement. Do the same for the other tappets. If more clearance is needed, remove the least amount of material from the tappet blocks as needed. (**Note:** make sure to remove any burrs after modifying the blocks, wash and air dry.) Also check tappet to tappet clearance on cams with small base circles.
- 6. Apply assembly lube to tappets and rollers. Slip tappets into blocks, you can hold tappets in place with your fingers or a rubber band works well. Install gaskets dry onto tappet blocks.
- 7. With both blocks in place on case. Install JIMS® tool #33443-84 if your case has 1/4-20 mounting holes. Lube tool and screw into the tappet screw hole nearest the oil feed hole to center block into case. Tighten to 30 in./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.
- 8. This is a good time to clean the tappet screen. See H-D® Service Manual.
- 9. Locate the front pushrod and covers first. Apply assembly lube to top and bottom ends and threads of pushrods. (**Note:** longest pushrod is for the front exhaust tappet) With the front exhaust cam at the lowest

point adjust pushrod with thumb and finger just until you eliminate all up and down movement.

10.Extend the pushrod adjuster:

7 wrench flats if your pushrods have 24 threads per inch.

10 wrench flats if your pushrods have 32 threads per inch.

13 wrench flats if your pushrods have 40 threads per inch.

This is about .050 from the snap ring down for all of the adjustments.

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 very 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 lock nut, close covers and install clips. Repeat exact procedure on other pushrods. Turn motor over several times to pump oil into the Power Glide™ Tappet or until the oil light goes out, or until oil is returning to the oil tank.

CAUTION: USE MOTORCYCLE OIL 50W, 60W, OR 20W-50 AT BEST

For detailed hydraulic lifter and trouble shooting information see JIMS catalog or website catalog at

www.jimsusa.com

Pushrod Adjustments				
Threads per inch	Wrench Flats	Total Travel Distance	Approximate Turns	
24	7	.049	1.2	
32	10	.052	1.6	
40	13	.052	1.6	

	Popular	Pushrods
Andrews	28	
Andrews	32	
Crane	24	Time Savers
Crane	32	
H-D	32	
S & S	32	
Rivera	40	Taper Lite

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.