



A Division of Thiessen Products, Inc.

# INSTRUCTION SHEET FOR JIMS No.1827, 1828, AND 1829 STEADY ROLL TAPPETS

JIMS® Steady Roll Tappet is designed with a special bronze alloy bushing instead of needle bearings in the tappet's roller and uses our proven Powerglide II hydraulic unit and fitments.

*Standard O.D. is .8420" and fits Twin Cam 1999 to present, Sportster 2000 to present, and Buell 2000 to 2010 except 1125R.*

No. **1827** STD

No. **1828** +.002"

No. **1829** +.010" (Use with JIMS No. **789** case saver reamer)

**Note:** JIMS Steady Roll tappets must use adjustable pushrods, in a cold motor only.

Otherwise, serious valve train damage can result. If you are unfamiliar with lifter adjustment, seek technical help.

**Note:** The JIMS Steady Roll tappet includes design parameters that may or may not affect your oil pressure. These performance tappets incorporate an oil hole to feed the tappet roller, axle, and cam assembly. In tests, JIMS has seen a slight drop in oil pressure ranging from 0-3 lbs. psi. It is up to you, the mechanic, to confirm adequate oil pressure before and after installing these tappets. Install lifters with oiling holes facing away from cylinders or toward the right.

**Note:** JIMS Steady Roll Tappets are assembled with a small amount of oil to ease in the tappet adjustment process. If the pushrods you are using are adjustable, proceed as follows:

**READ ALL INSTRUCTIONS BEFORE STARTING JOB**

**Caution:** *Disconnect the ground cable at the battery.*

1. Refer to H-D® Service Manual for tappet installation. If installing a cam at the same time, follow those instructions.
2. **Note:** As you are preparing the engine for the installation of the new JIMS Steady Roll tappets, place all 4 tappets in a clean container filled with H-D 20W/50 oil to cover tappets, let them soak for 20 minutes.
3. Install JIMS Steady Roll tappets with the oil holes facing away from the cylinders.
4. Install the anti-rotation pins, new gaskets, lifter covers, and torque as specified in the service manual.
5. Place the front piston at TDC compression position.
6. With all four Steady Roll tappets installed, start with the front intake pushrod, making sure tappet is at the lowest point on the cam.
7. Extend the pushrod adjuster screw to zero lash, you will be making the pushrod longer, (no up and down movement, removing all free play without pushing the hydraulic unit down.) See pushrod adjustment chart for your particular pushrod.



<b>PUSHROD ADJUSTMENTS-FOR REFERENCE ONLY!</b>				
<b>NOTE:</b> Use the instructions that came with your tappets				
Threads per inch	Wrench flats	Total travel distance	Distance per turn	Distance per flats
24	15	.1042"	.0417"	.0069"
28	17	.1011"	.0357"	.0059"
32	18	.0937"	.0313"	.0052"
36	21	.0965"	.0275"	.0045"
40	24	.100"	.025"	.0042"
52	30	.0962"	.0192"	.0032"

<b>POPULAR PUSHRODS</b>		
<b>MANUFACTURES THREADS PER INCH</b>		
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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**Example:** If your pushrods have 24 threads per inch, extend the pushrod 15 hex wrench flats or 2 1/2 turns, tighten lock nut to 15 ft/lbs of torque.

**Note:** This will move the adjusting screw down, pushing the hydraulic unit down its bore about .100". This will make the pushrod tight which will bleed the hydraulic tappet.

**Note:** It may take 5 to 15 minutes to bleed off completely.

**Caution:** *Do not rotate the engine until you can spin the pushrod or pushrods with your thumb and forefinger freely by hand.*

8. Repeat exact procedure for the next three pushrods, making sure to be on the lowest position of cam lobe for the tappet you're adjusting.
9. Tighten lock nut to 15 ft/lbs of torque for all 4 pushrods.
10. Recheck lock nuts, close covers, and install your pushrod clips. Use JIMS No. 917 pushrod cover clip removal and installation tool.
11. Turn engine over several times to pump oil into the Steady Roll tappets. You should turn the engine over until the oil light goes out, or until oil is returning to the oil tank.

**Note:** On first startup, do not be alarmed if the engine makes excessive tappet noise. This should quiet down after a minute or so of running as the tappets get oil into the hydraulic unit. If the tappets do not quiet down after a few minutes, re-check tappet adjustment.

**Caution:** *Use 20W/50 motorcycle oil with your new tappets. New engines, after the first 50 miles change oil, oil filter, and run the new tappets for 500 miles using 20W/50 motorcycle oil.*

For detailed hydraulic lifter and troubleshooting information see "Powerglide Tappet Information". Refer to JIMS catalog tappet section, or website catalog at [www.jimsusa.com](http://www.jimsusa.com)

### 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 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 or electric pencil or any other type of marking that will damage the tappet's surfaces, all warranties 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 their location.

**Example:** F/I, for front intake.

**CAUTION: WEAR SAFETY GLASSES OVER YOUR EYES.**  
**SEE JIMS® CATALOG FOR HUNDREDS OF TOP QUALITY PROFESSIONAL TOOLS.**  
**THE LAST TOOLS YOU WILL EVER NEED TO BUY.**

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