

# JESEL<sup>®</sup>

VALVETRAIN INNOVATION

## INS-29425

## Pushrod Length Checker Instructions

**TOL-29400** 6" - 12" Pushrod Checker / Cup Adj

**TOL-29425** 6" - 12" Pushrod Checker / Ball Adj

**TOL-29450** 6" - 9" Pushrod Checker / Cup Adj



CUP ADJUSTER

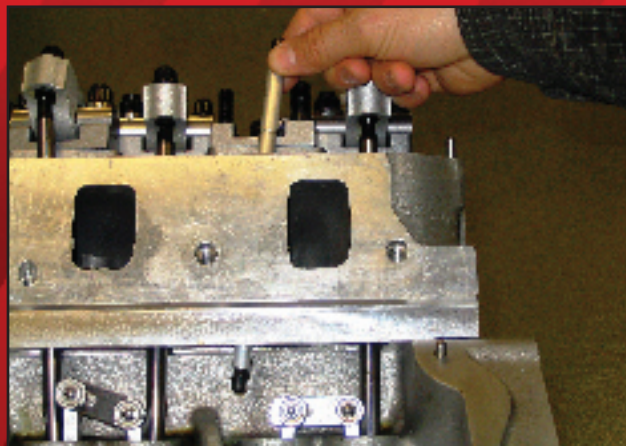


BALL ADJUSTER

SET THE LASH ADJUSTER TO THE PROPER STARTING POSITION.

**CUP STYLE ADJUSTER:**  
SET THE ADJUSTER ONE FULL TURN DOWN FROM SEATED POSITION.

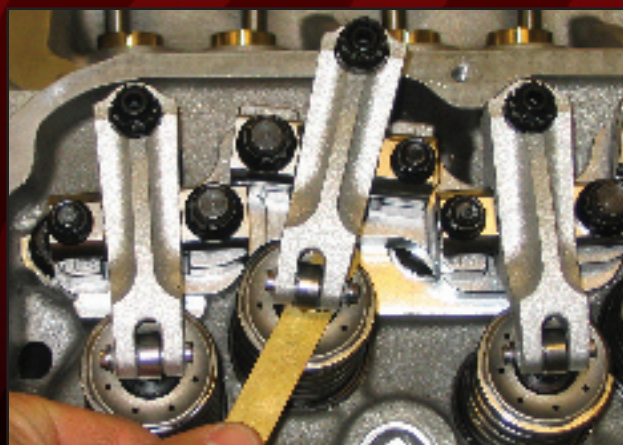
**BALL STYLE ADJUSTER:**  
SET THE TOP OF THE ADJUSTER FLUSH WITH THE TOP OF ADJUSTER NUT.



**STEP 1:** STARTING WITH CYLINDER NUMBER ONE, ROTATE THE ENGINE UNTIL INTAKE LIFTER IS ON THE CAMS BASE CIRCLE (OPPOSITE FROM FULL LIFT). ASSEMBLE THE ADJUSTABLE PUSHROD TO THE APPROXIMATE LENGTH, PLACE ONTO THE INTAKE LIFTER AND BOLT THE ROCKER ARM TO STAND. CHECK FOR PUSHROD TO CYLINDER HEAD INTERFERENCE AND CORRECT IF ANY OBSTRUCTION IS PRESENT.



**STEP 2:** BE SURE THAT THE ADJUSTER STARTING POSITION IS SET AS DESCRIBED ABOVE. SCREW OUT THE ENDS OF THE ADJUSTABLE PUSHROD UNTIL THEY CONTACT THE ADJUSTER.



**STEP 3:** ADJUST PUSHROD ENDS UNTIL DESIRED LASH IS OBTAINED. REMOVE ROCKER AND MEASURE PUSHROD. REPEAT PROCEDURE FOR THE EXHAUST ROCKER.

**NEVER** ROTATE THE VALVETRAIN USING THE PUSHROD CHECKING TOOL.

**BEFORE ORDERING PUSHRODS:** DUE TO VARIANCES IN ENGINE MACHINING PROCESSES AND CAMSHAFT GRINDS, IT IS NOT UNCOMMON FOR PUSHROD LENGTHS TO VARY IN LENGTH FROM ONE BANK OR EVEN FROM ONE CYLINDER TO ANOTHER. BEFORE ORDERING NEW PUSHRODS, CHECK THE PUSHROD LENGTH ON SEVERAL DIFFERENT CYLINDERS AND ON BOTH SIDES OF THE ENGINE.



JESEL OFFERS 5/16", 3/8" AND CUSTOM MODULAR TAPERED PUSHRODS TO TAILOR TO ALL RACING APPLICATIONS.

## VALVE ADJUSTMENT:

1. ROTATE ENGINE UNTIL EXHAUST ROCKER BEGINS TO OPEN EXHAUST VALVE. SET INTAKE LASH TO DESIRED SPEC.
2. ROTATE ENGINE UNTIL INTAKE ROCKER BEGINS TO RETURN FROM ITS FULL LIFT POSITION. SET EXHAUST LASH TO SPEC.
3. REPEAT FOR THE REMAINING CYLINDERS FOLLOWING THE CORRECT FIRING ORDER OF YOUR ENGINE.

## NOTES:

1. NEVER ROTATE THE VALVETRAIN USING THE CHECKER PUSHROD.
2. MAKE SURE PUSHRODS ARE CLEAN AND PROPERLY LUBRICATED BEFORE FINAL INSTALLATION.
3. MAKE SURE THERE IS NO INTERFERENCE BETWEEN PUSHROD AND ENGINE BLOCK OR CYLINDER HEAD.
4. NEVER MODIFY THE COUNTERBORE FOR THE LASH ADJUSTER TO TRY TO FIT A LONGER PUSHROD.

Maintain your valvetrain properly with Logan-Smith's Spring Pressure Tester and Torque Wrench Valve Lash tool.



## TORQUE SPECS:

ADJUSTER NUT - 1/8" HEX	25 LBS-FT
ADJUSTER NUT - 5/32" HEX	30 LBS-FT
5/16-18 T45 SHAFT BOLT	26-28 LBS-FT
5/16-18 ARP 12pt SHAFT BOLT	35 LBS-FT
3/8-16 STAND BOLT	45-50 LBS-FT
7/16-14 STAND BOLT	60-65 LBS-FT

Torque specs listed above are the recommended torque specs when using 30wt engine oil as a lubricant. Torque specs will be lower if using a Moly based lubricant. To convert to Newton/meters, multiply lbs-ft by 1.356. The torque values listed are intended to be for general information. Actual torque values may vary depending upon your application.

## WARNING - DO NOT:

- MODIFY THE ADJUSTER CUP COUNTERBORE
- LOOSEN SHAFT BOLTS UNDER SPRING LOADS
- RUN PUSHROD ADJUSTER MORE THAN TWO TURN OUT FROM FULLY SEATED POSITION
- RUN WITH ROUGH OR DAMAGED PUSHROD TIPS
- ALLOW PUSHRODS TO INTERFERE WITH BLOCK OR CYLINDER HEADS
- DEGREASE ROCKER AND RUN WITHOUT LUBE
- OVERTIGHTEN ADJUSTER NUTS

**www.jesel.com**

1985 Cedarbridge Ave · Lakewood, NJ 08701 · Phone: 732-901-1800 · Fax: 732-901-6777

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