

**V-Twin Mfg.**  
**Crane Adjustable Pushrod 4 Piece Set**  
**VT Part No. 7132-89**

This is a custom application and rider safety depends on proper installation. This product should only be installed by a knowledgeable and trained motorcycle technician. V-Twin Mfg. accepts no responsibility for improper installation.

Installation of these pushrods requires mechanical work on your engine, therefore it is necessary to have a copy of a service manual to perform the work properly. We highly recommend that you read these instructions completely before you start the installation. If you do not understand them, or have any questions, please contact a technical consultant at the numbers below.

**Installation Instructions:**

1. With a cold engine, remove the original pushrods by following the procedure in your manual. DO NOT remove the lower rocker arm cover.
2. Adjust the Crane pushrods so they are in their shortest position before the installation, by turning the lower lock nut and pushrod end until no thread shows.
3. Rotate the engine until both front cylinder tappets are at their lowest point (top of compression stroke, see manual). Install the front exhaust pushrod, adjuster end down, through the rocker cover with the pushrod tube and O-rings held in position.
4. With the lower ball end of the pushrod in the tappet socket, place the rocker arm socket on the upper ball end of pushrod. Hold in place and insert the rocker arm shaft. Adjust the lifter as follows:

**Hydraulic Type:**

1. Turn the adjustable lower end of pushrod outward, lengthening the pushrod until all slack is taken out, with no up and down movement.
2. Turn the adjuster 3 complete turns, outward (18 flats on hex), while holding the upper hex with another 3/8" wrench.
3. Using 3 wrenches, tighten the lock nut against the bottom portion of the 3. pushrod. (DO NOT OVER TIGHTEN).
4. Repeat procedure on the front cylinder intake pushrod. Let tappets bleed down at least ten minutes before rotating the engine so as not to bend a valve or pushrod.
5. Now repeat the complete procedure on the rear cylinder pushrods with the tappets in their lowest position. Following directions in your service manual, reassemble the pushrod cover tubes and rocker covers.

**Solid Converted Tappets**

1. Turn the adjustable lower end of the pushrod outward, lengthening the pushrod, until all slack is taken out. The pushrod should have slight drag while rotating, but no up and down movement.
2. Use three 3/8" open end wrenches and tighten the lock nut against the lower portion of the pushrod. Check again to make sure the pushrods just spin with slight drag and no shake. Do not over tighten the lock nut.
3. Repeat on the rear cylinder pushrods with the tappets in their lowest position. Following directions in your service manual, reassemble the pushrod cover tubes and rocker covers.