



## INSTALLATION INSTRUCTIONS: HIGH PERFORMANCE PUSHRODS PART# 35-4552

### READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

Congratulations, you have purchased the finest quick-install pushrods available for your motorcycle. Your Vance & Hines quick-install pushrods are designed and crafted for performance, and quality. Please follow the instructions below, check quick-install pushrods for missing or damaged parts and if you need any assistance please contact our technical support line (562) 921-7461.

#### FITMENT YEARS:

- 1999-Later Harley-Davidson Twin Cam Models

#### NOTES:

- This kit can be installed without Rocker Box / Top End disassembly
- All pushrod adjustments are to be made while the engine is cold
- This kit can be used with Hydraulic or solid lifters
- For complete and accurate service procedures and fastener torque, please reference your specific year and model service manual
- Pushrods are labeled 8.256 IN (Intake) 8.376 EX (Exhaust)

#### KIT CONTENTS:

- Qty. 4 Adjustable Pushrods

#### PREPARING VEHICLE:

1. Disconnect Battery to prevent accidental engine start-up. Battery negative cable first.
2. If needed, remove air cleaner and back plate to gain access to the chrome pushrod keepers. Remove the keepers to gain access to the pushrods.
3. Pull up lower pushrod cover and use a bolt cutter to cut the pushrod for easy removal.  
**NOTE:** Cover lower lifter opening with a rag or cloth to prevent any foreign debris from entering the lifter cavities while cutting the pushrods.
4. Remove spark plugs.
5. Using a scissor lift with rear tire elevated, bike in 5th gear, rotate rear wheel to turn engine over until rear cylinder lifters are on the base circle (lowest point) on the camshaft.
6. Inspect and replace Pushrod tube O-rings as necessary.
7. Prepare pushrods for installation by loosening locknut and shortening all 4 pushrods to their shortest length.
8. Install the pushrods into the pushrod tube with tapered end up and adjusters on the bottom.
9. Follow appropriate installation instructions below for lifter type.

### ADJUSTMENT PROCEDURE FOR HYDRAULIC LIFTERS

1. Starting with the intake pushrod first, adjust the pushrod length to zero lash.  
**NOTE:** pushrods are labeled Int (intake) or Ex (Exhaust)
2. With alignment mark on pushrod tube facing you, install a 5/16" wrench on adjusting screw and prevent it from turning while using a 1/2" wrench to turn the pushrod tube 2 ½ turns counter clockwise (using alignment mark to count revolutions).
3. Tighten the locknut with a 9/16" wrench while holding the pushrod tube with a 1/2" wrench.  
**NOTE:** Engine should not be rotated for 10 minutes after the pushrod adjustment was made, this will allow sufficient time for lifters to bleed down and prevent potential engine damage.
4. Adjust exhaust pushrod following steps 2-3.
5. Rotate engine until front cylinder lifters are on the base circle (lowest point).
6. Repeat steps 1-4 per instructions noted above to adjust front cylinder pushrods.

### ADJUSTMENT PROCEDURE FOR SOLID LIFTERS

Follow steps 1-9 (Preparing vehicle) to prepare for replacement and adjustment of pushrods for solid lifters.

1. Starting with the intake pushrod first, hold the pushrod tube and install a 5/16" wrench on adjusting screw and prevent it from turning while using a ½" wrench to turn the pushrod until zero lash is noted. The pushrod should not move up or down and turn freely.  
**NOTE:** Pushrods are labeled IN (intake) or EX (exhaust).
2. Tighten the locknut with a 9/16" wrench while holding the pushrod tube with a ½" wrench.
3. Adjust exhaust pushrod following steps 1-2.
4. Rotate engine until front cylinder lifters are on the base circle ( lowest point).
5. Repeat steps 1-3 per instructions noted above to adjust front cyl pushrods.

### RETURN TO VEHICLE SERVICE

1. Reinstall pushrod tube keepers.
2. Reinstall removed spark plugs.
3. Return transmission to neutral.
4. Remove scissor lift.
5. Reconnect battery as defined in the appropriate service manual for your year and model motorcycle.

**FIGURE 1**



**FIGURE 2**



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