

installation instructions for **TAPERLITE** adjustable pushrods

Thank you for purchasing Rivera Engineering's ALL AMERICAN MADE TAPER-LITE adjustable pushrods, the logical choice for replacing OEM non-adjustable pushrods for years of trouble free high performance service. TAPER-LITE pushrods are designed to be installed and uninstalled without removing the gas tank, rocker box assemblies, or cam-cover. Taper-Lite pushrods can be quickly & easily installed by following these instructions. Taper-Lite pushrods are manufactured from 4130 steel alloy with hardened ball-ends & a 3/8"X40 aircraft quality adjuster screw. One complete turn of the adjuster screw gives .025" of linear travel. The tapered pushrod shape eliminates "flexing" under extreme valve spring loads. To obtain 100% perfect valve-train geometry use Rivera Engineering's "Rocker-Arm Geometry Kit" available from your local dealer.

- 1) Remove battery ground cable, tape & insulate the connector end ensuring no contact with the battery is possible.
- 2) Remove both spark plugs.
- 3) When using a lift, make sure the bike is securely fastened in place. Lift frame with a jack allowing rear wheel to be rotated.
- 4) Remove the push rod clip lift the tubes up to access the pushrods.
- 5) Shift the transmission into high gear. Rotate the rear wheel until the 2 front cylinder pushrods are at their lowest position, and spin freely.
- 6) Shorten two Taper-Lite pushrods for installation. Install into the front cylinder pushrod locations. Extend both adjusters until the pushrods are just snug. Ensure that the pushrods ends are located correctly in the lifter (bottom) and rocker-arm (top). Turn the lock-nut until it touches the bottom of the pushrod body. Using a

7/16" end wrench, hold the adjuster nut, & use a 5/16" end wrench to spin the pushrod tube exactly 4 revolutions. Each COMPLETE (360 degrees) revolution gives .025" of movement.

After adjusting both pushrods, spin the lock nut up against the tube and lock in place. Allow 10-15 minutes for the lifters to bleed off (if they are in a pumped up condition) or wait until the pushrod can be spun with the fingers.

DO NOT ROTATE THE MOTOR UNTIL THE LIFTERS HAVE BLED OFF OR EXPENSIVE MOTOR DAMAGE MAY OCCUR!!

REPEAT THE PRECEEDING PROCEDURE FOR THE REAR CYLINDER

7) When all 4 pushrods have been installed, check the 4 locking nuts for tightness. Close the pushrod covers and re-install the locking clips. Install the spark plugs, & attach the battery cable. Start the motorcycle and check for oil leaks.

