

To set valve geometry and achieve the correct pushrod length -

- Measure the total pushrod lift on one pushrod on one cylinder. Use a dial indicator or calipers to measure it.
- Divide by two then rotate the crank until you have exactly the calculated amount of lift at the pushrod (exactly half lift). Lock the crankshaft or flywheel at this point so it can't move.
- Fit a adjustable Pushrod Measuring Tool #16-9600, to the cam follower that's at half lift, fit the rocker shaft then adjust the length of the pushrod so that the rocker makes equal angles to both the valve stem and the pushrod. Use the locknut to lock the pushrod at this length. Unlock the flywheel and rotate the engine and double check that you can get the correct valve clearance.
- Check to see that the valve fully closes and it opens all the way without catching or hitting anything. You may have to shim the rocker shaft, but if you do then you'll need to re-check your pushrod length.
- Check that your valve springs aren't binding when at full lift (slide a .020 feeler gauge between the coils) and that there's enough movement left in the valve adjusters for future valve adjustments.
- Then cut all your pushrods to that length.
- A lathe is best, but a hacksaw will do if you cut straight. De-bur the end of the pushrod and install the pushrod tip.