



## TWS PRE LOAD SETUP

When installing any new cam, lifters or valve springs it is a good idea to check your lifter preload.

Parts used in this document:

- TWS Performance Cam Kit
- TWS Heavy Duty Push Rods
- TWS Shim Kit

### Step 1

Put your number 1 cylinder push rods in and lay your rocker shaft on the head without shims. It is also helpful to put the 2nd to the last push rod in to keep the rocker assembly straight.



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## Step 2

Begin to tighten down the rocker assembly on the number 1 cylinder until there is zero play (up and down) on both number 1 push rods.



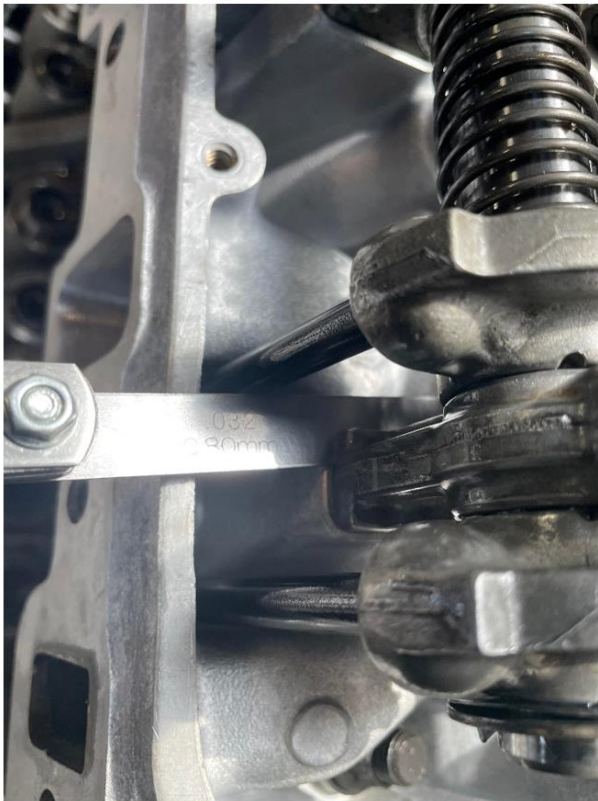


### Step 3

Now you will measure the gap (in thousandths) between the rocker stanchion and the head with a feeler gauge. Take the number you get and multiply this by 1.6 (rocker ratio). You want the final number to be between .040 and .060 thousandths of an inch. If you're not within this range and are above that range, you will need to use shims under the rocker stanchions to correct this.

Example. First measurement is .060, then you multiply by 1.6, which gives you .096 preload, which means you are not within spec. To correct this, you could put in .030 thousandths shims which gets you to .048 pre load.

Now with the .030 shims our first measurement is under the stanchion is .030, multiply that by 1.6, gets you .048, which is within spec.







## Step 4

When you install the shims, be sure to line up the oil feed hole or the rockers will not get oil. The feed hole is towards the front of the motor.

Place your shims under the rest of the stanchions. Unless you feel your heads have been shaved unevenly, you can use the same measurements for the passenger side.

