

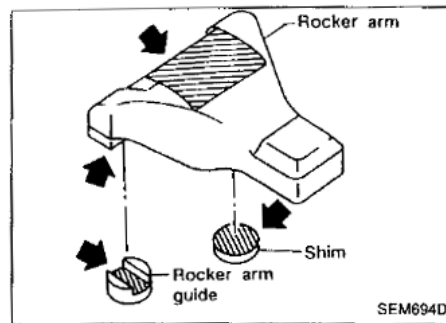


SR20 Valve Shim Height Tool

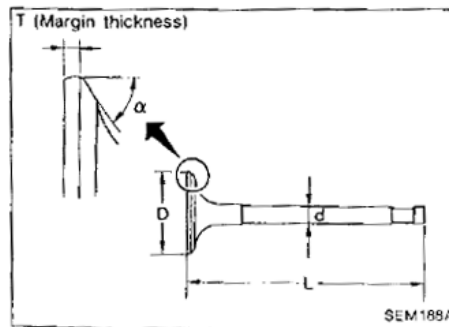
P/N RPS-000002

This Tool is designed to be easy to use requiring fast and simple setup.

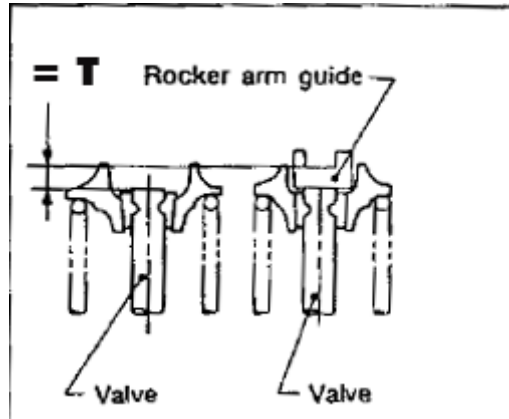
In the SR20 engine, one rocker arm strikes two valves at once.



Nissan used a guide and a shim on-top of each pair of valves to account for inaccuracy in valve manufacturing and valve seat cutting.



It is imperative that the total height of each pair of valves be equal. Uneven height is the root cause of ticking from the cylinder head, rocker arms that break off, damaging cylinder head parts, and polluting engine block oiling systems with broken metal. At times, it can be impossible to completely clean a metal polluted block, because small metal fragments lodge themselves into oil passages, causing oil starvation, or fragmental contact after a rebuild.



The RPSport SR20 Valve Shim Height tool was made to take exact measurements of the valve heights, as well as auto calculate the needed shim size for fast and accurate placement of shims. The value needed is represented as T above.



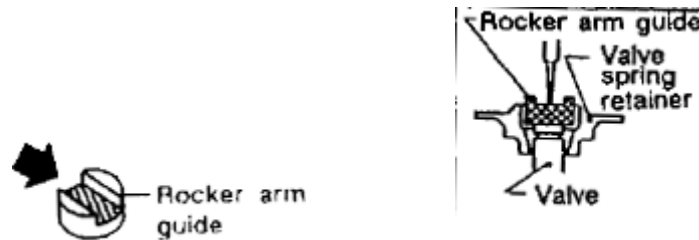
Use this tool:

- With the cylinder head at its finished torque position with the engine block
- With the cams and rocker arms removed
- With a set of brand new rocker arm guides
- With the hydraulic lifters removed
- With valves at final installation with valve springs and retainers installed

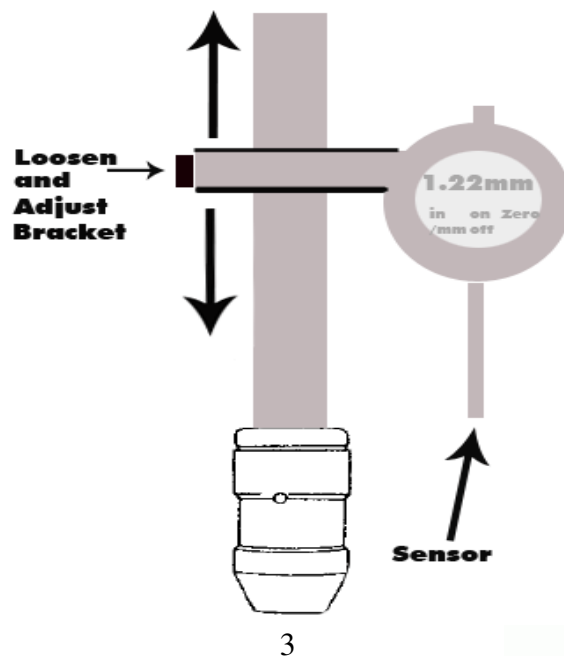
Instructions:

Place tool in Hydraulic Lifter Assembly (HLA) slot.

Measure Left valve with new rocker arm guide in place. When measuring, lightly pull dial indicator rod toward you to eliminate play in tool.



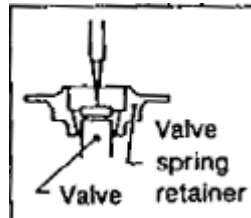
Adjust gauge down on mounting rod so that sensor is slightly depressed.
(+/- 5mm's)



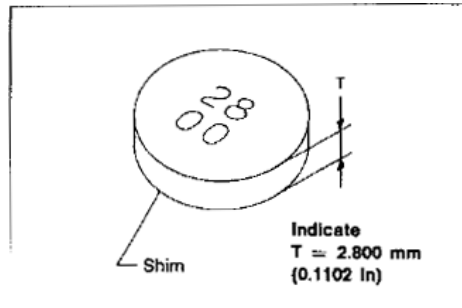
Press the Zero Button on the gauge to Zero the gauge out.



Pickup sensor rod and rotate gauge to right valve with NO shim in place. When measuring, lightly pull dial indicator rod toward you to eliminate play in tool.



The gauge should now display a negative value, the positive value of this number (EXAMPLE: -2.60mm is to 2.60mm) is the size of shim that needs to be used on this valve. The tolerance is +/- .02mm



Write down needed shim sizes on the sheet included.

Repeat this process on all 8 HLA and valve pairs.

Nissan Part Numbers for Rocker Arm Guides and Shims

Rocker Arm Guides:

13218-53J00

Ordered as singles, you need to purchase eight rocker arm guides before ordering shims.

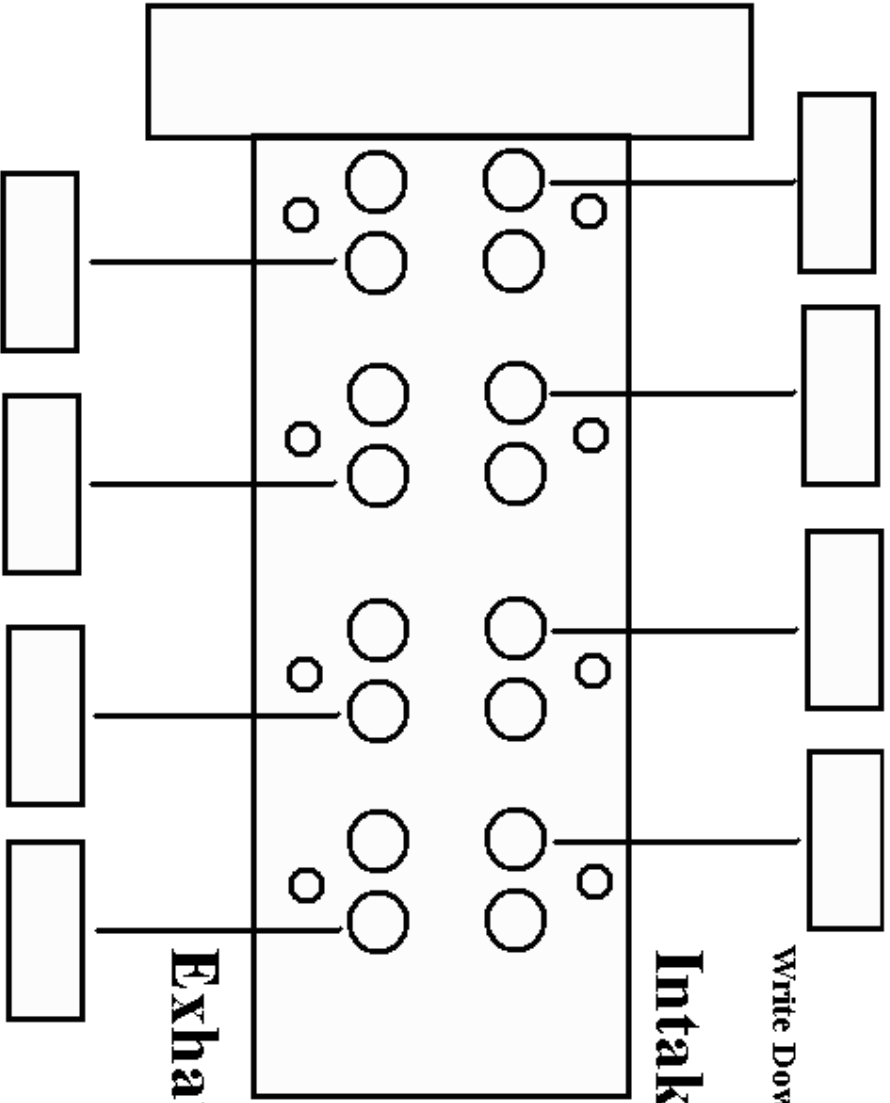
Shims:

Sizes	Nissan Part Number
2.800mm	13229-53J00
2.825mm	13229-53J01
2.850mm	13229-53J02
2.875mm	13229-53J03
2.900mm	13229-53J04
2.925mm	13229-53J05
2.950mm	13229-53J06
2.975mm	13229-53J07
3.000mm	13229-53J08
3.025mm	13229-53J09
3.050mm	13229-53J10
3.075mm	13229-53J11
3.100mm	13229-53J12
3.125mm	13229-53J13
3.150mm	13229-53J14
3.175mm	13229-53J15
3.200mm	13229-53J16

West Covina Nissan Houses “The Nismo Shop” They are one of the ONLY dealerships specializing in SR20 parts. Shims are listed on their website or call and ask for Ray.

West Covina Nissan
<http://www.TheNismoShop.com>
866-750-4379
205 North Citrus St
West Covina, CA 91791





Write Down Needed Shim Sizes

Intake

Exhaust

Downloadable PDF file of this sheet at <http://www.RPSPort.net/support>

