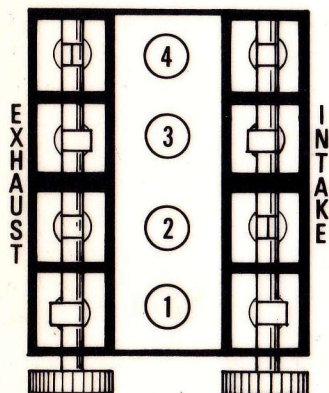


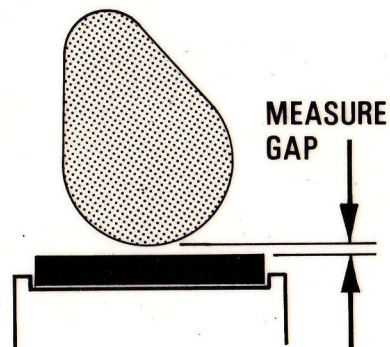
## ARRANGEMENT



## SPECIFICATIONS

INTAKE 0.016"-0.019"  
EXHAUST 0.018"-0.021"  
MUST BE CHECKED AND ADJUSTED  
WITH ENGINE COLD.

## TO CHECK CLEARANCE

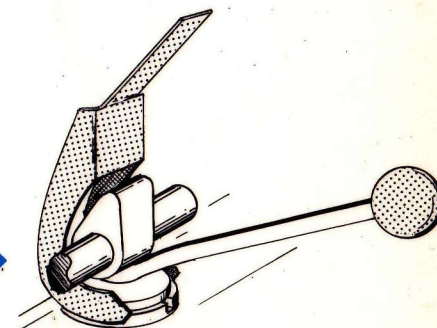


Clear top of engine for access.  
Turn engine by using a 38mm socket on  
crankshaft pulley nut.  
Turn engine so cam lobe is up.  
Using feeler gauge, measure clearance. Re-  
cord clearance reading.

## TO ADJUST CLEARANCE

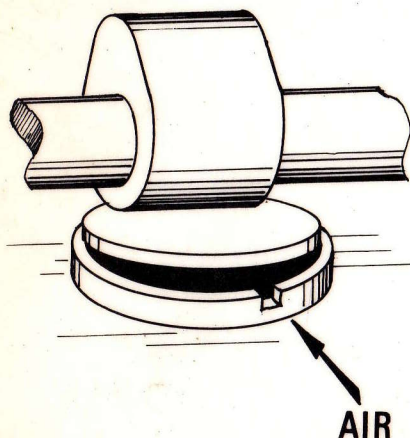


Remove excess oil thru drains.  
Position cam lobe as shown.  
Turn tappet so that shim removal notch is  
clear.



Insert tool 60443 under lobe and depress  
tappet.  
Install retainer 60477 or 60594 and remove  
60443.  
Turn cam lobe to touch retainer.

## TO REMOVE SHIM



Cover area with rag. Direct air pressure at  
notch to unseat shim. If shim binds, move it  
carefully until it becomes free.  
Remove shim with a magnet.  
Check shim thickness with a micrometer.  
Record thickness reading.

## VALVE SHIM INFORMATION

### SIZES

mm	in.	mm	in.
3.25	0.128	4.02	0.158
3.30	0.130	4.10	0.161
3.40	0.134	4.20	0.165
3.50	0.138	4.30	0.169
3.60	0.142	4.40	0.173
3.70	0.146	4.50	0.177
3.80	0.150	4.60	0.181
3.90	0.154	4.70	0.185
4.00	0.157	4.80	0.189

Select a shim which will give correct clear-  
ance according to chart at the right.  
Thinner shim = more clearance  
Thicker shim = less clearance  
If two shims are close, use thinner shim.

## TO CALCULATE SHIM SIZE

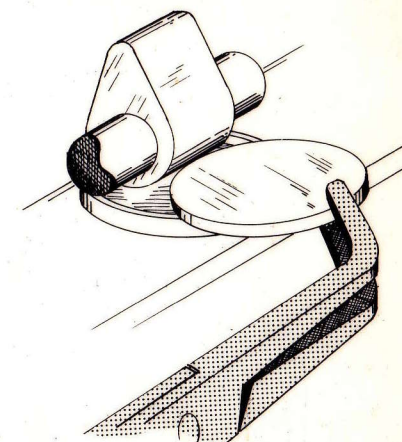
### CLEARANCE TOO TIGHT

Required clearance \_\_\_\_\_  
Measured clearance \_\_\_\_\_  
Difference \_\_\_\_\_  
Old shim thickness \_\_\_\_\_  
- Difference \_\_\_\_\_  
New shim thickness \_\_\_\_\_

### CLEARANCE TOO LOOSE

Measured clearance \_\_\_\_\_  
Required clearance \_\_\_\_\_  
Difference \_\_\_\_\_  
Old Shim thickness \_\_\_\_\_  
+ Difference \_\_\_\_\_  
New shim thickness \_\_\_\_\_

## TO REINSTALL SHIM



Position shim on tappet with pliers 87001.  
Seat shim carefully.  
Use 60443 to depress tappet.  
Remove retainer tool.  
Spin shim with finger to be sure it is seated.  
Recheck clearance.