

VACUUM-SPRING ASSORTMENT KIT # 120083

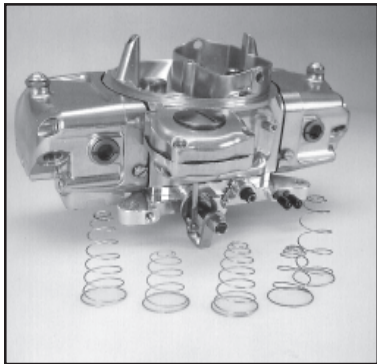


INSTALLATION AND TUNING INSTRUCTIONS

This kit contains a variety of secondary diaphragm springs to help you custom tune your vacuum secondary Demon™ or Holley® 4150 or 4160 model carburetor to its specific application.

Prior to making any changes, it is recommended to obtain some time-slips from the local drag strip or race facility. Minor improvements in acceleration that cannot be "felt" by the driver or "heard" in the engine can show up at the track.

If this kit is for a standard Holley® vacuum pod, follow the standard vacuum pod instruction. If this kit is for a Quick-Change Holley®, follow the Quick-Change vacuum pod instructions. Also, Demon carburetors feature an o-ring between the vacuum pod and the main body, whereas the Holley® uses a cork gasket. Finally, the Holley® Quick-Change cap is secured with two phillips screws as opposed to the threaded cap on the Demon pod.



Standard Vacuum Pod (#42137, Road Demon)

In order to change the spring on this style of pod, it is necessary to remove the pod from the carburetor main body. This is accomplished by first removing the E-clip that attaches the pod diaphragm to the secondary shaft end plate. Once the clip is off, remove the three socket-head cap screws that attach the pod to the main body (SEE FIGURE ONE). The pod is now free from the carburetor.

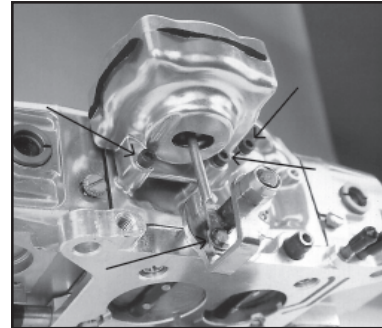


Figure 1

It is important to take note of the small O-ring that is located between the pod and the main body (figure 2). This O-ring functions as a seal for the vacuum signal from the carburetor to the vacuum pod. Please be sure not to misplace this part or the pod will not work. It needs to be in place upon re-installation of the pod.

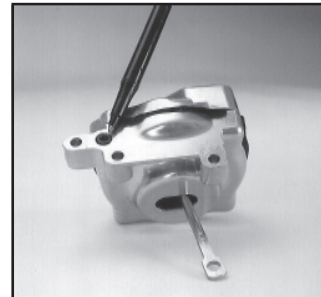


Figure 2

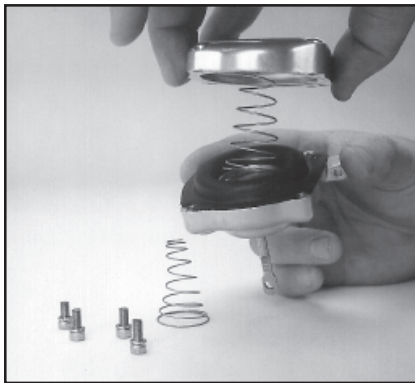
Remove the four socket-head cap screws that secure the top of the pod to the body and lift the top. This will expose the spring. Using the chart on back, select the proper spring for your application.



Once the proper spring has been selected, secure it to the boss in the pod lid and replace the lid on the pod body. Then, re-install the pod to the side of the carburetor main body.

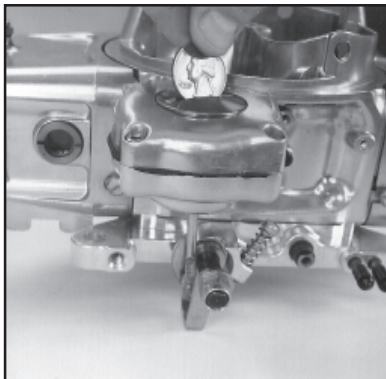
350 CID Engine		402 CID Engine		
Spring color	RPM to Open	RPM at Full Open	RPM to Open	RPM at Full Open
White	—	—	—	—
Yellow (short spring)	1620	5680	1410	4960
Yellow	1635	5750	1420	5020
Purple	1915	6950	1680	6050
Plain (std. spring)	2240	8160	1960	7130
Brown	2710	8750	2380	7650
Black	2720	Not fully open at max air flow	2390	Not fully open at max air flow

Remember to replace the O-ring prior to pod re-attachment. Connect the diaphragm stem to the throttle shaft end plate using the E-clip.

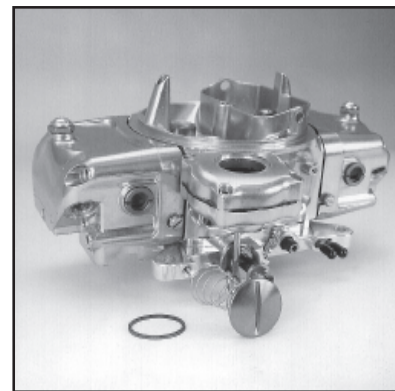


Quick-Change Vacuum Pod (#42138, Speed Demon)

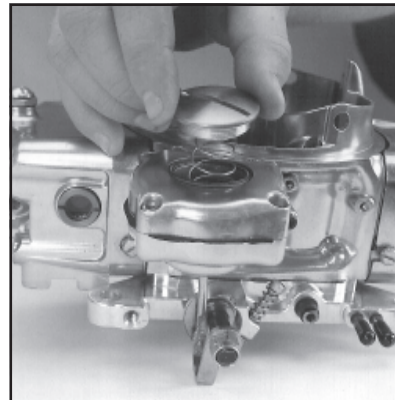
The Quick-Change Pod allows for tuning with different springs without the need to remove the pod body from the carburetor main body.



Using a wide-bladed screwdriver or a coin, remove the billet disk from the center of the pod lid. Once the disk is loose, lift the disk from the pod lid and remove the spring.



Please note the O-ring that seals the disk to the pod top.



Replace with a spring selected from the chart above and re-install the disk.

For further questions, please contact our technical department at (706) 864-8544.