



# POWER VALVE CHECK BALL KIT P/N 125-500

## INSTALLATION INSTRUCTIONS

### INTRODUCTION

Congratulations on your purchase of this quality product. Holley Performance Products has written this instruction sheet for the installation of the **power valve check ball kit**. It is our intent to provide the best possible products for our customer; products that perform properly and satisfy your expectations. Should you need information or parts assistance, please do not return the unit to the store without first contacting our technical service department at 1-270-781-9741, Monday through Friday, 7 a.m. to 5 p.m. CST. By using this number, you may obtain any information and/or parts assistance that you may require. Please have the part number on hand of the product you purchased when you call technical service.

**WARNING: To preserve warranty, these instructions must be read and followed completely before and during installation.**

This kit is designed to protect the power valve(s) during severe engine backfires. It should only be installed in Holley Model 2300, 4150, 4160, 4165, and 4175 carburetors.

**NOTE: Since the proper installation of this kit will require disassembly of the carburetor, you will need to purchase the proper Renew Kit® for your particular carburetor.**

1. Disassemble the carburetor according to the instructions supplied with the rebuild kit. Disassembly is required for both the proper location of the check ball and to prevent drill chips from entering passages of the fuel bowls and metering block(s).
2. Insert the drill bit and stop collar into your drill press. Place the carburetor throttle body in a fixture or on a carburetor stand with the top facing up.

**NOTE: It is recommended that the drilling be done using a drill press, however, this operation can be done on a bench top using a hand drill, if done carefully. Also, use extreme care not to damage the throttle body, if clamping in a vise.**

3. Locate the power valve passage on the top face, primary side of the carburetor throttle body. Drill the passage larger, until the collar stop contacts the throttle body. See Figure 1.

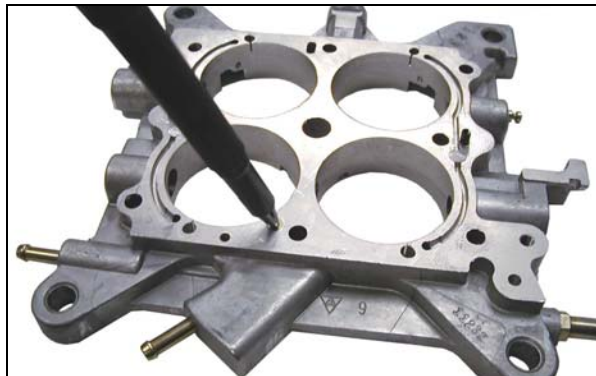


Figure 1



Figure 2 (Kit Components)

**NOTE: The drill collar is pre-set, but if it should come loose, it must be set .300" from the drill tip.**

4. After drilling, be sure to blow out all passages with compressed air to remove any drill chips.
5. Install the spring (tapered side facing up) into the power valve passage, followed by the check ball. Next, tap the spring retainer into place, flush with the surface of the throttle body.

**NOTE: Some carburetors have primary and secondary power valves. On these carburetors, the second check ball will need to be installed on the secondary side, following steps 2-5 above.**

6. Use a top quality carburetor cleaner to clean all parts. Make sure all old gasket material has been removed.
7. Reassemble the carburetor, according to the Renew Kit® instructions.