

Carb Air Cut Valve Testing

Air Cut Valve (ACV) Testing.

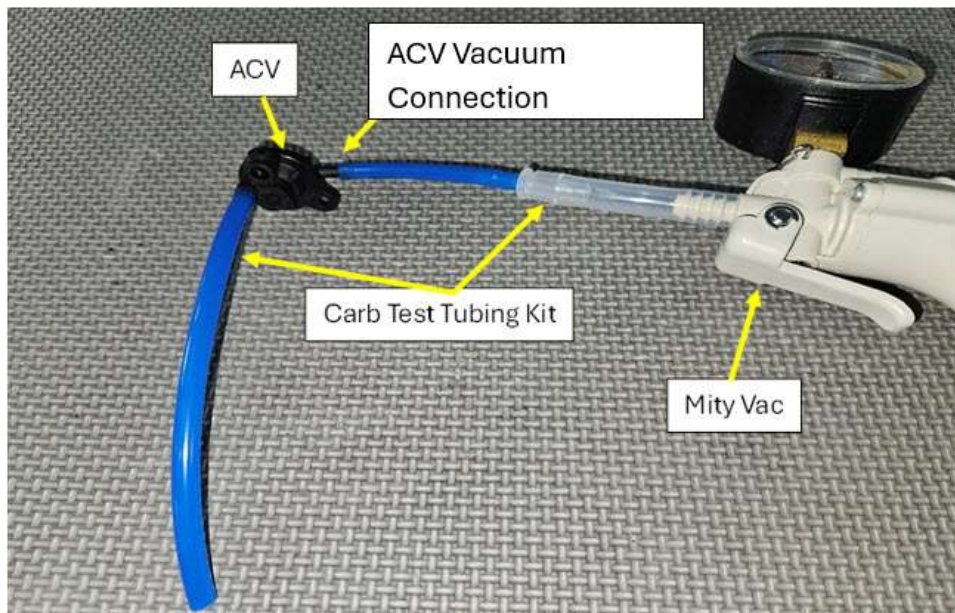
The nose of the ACV is connected to an air inlet under the Air Horn. Air injection is provided from the nose through the ACV and into the carb through a 120 jet. When you let off the throttle it creates a vacuum spike. The ACV uses the vacuum spike to close the air injection path and reduce the backfiring in the exhaust that would otherwise occur.

Items Needed:

- Test Tubing Kit from Valkyrie Carbs and Custom
- A Mityvac tool
- Air Cut Valves from your carbs

Leak Test of Test tubing and Mityvac

1. Connect the clear Test Tubing tube to your Mityvac.
2. Cover the end of the tubing and draw a vacuum greater than 16 in HG.
3. Verify the Mityvac & tubing will hold a vacuum.

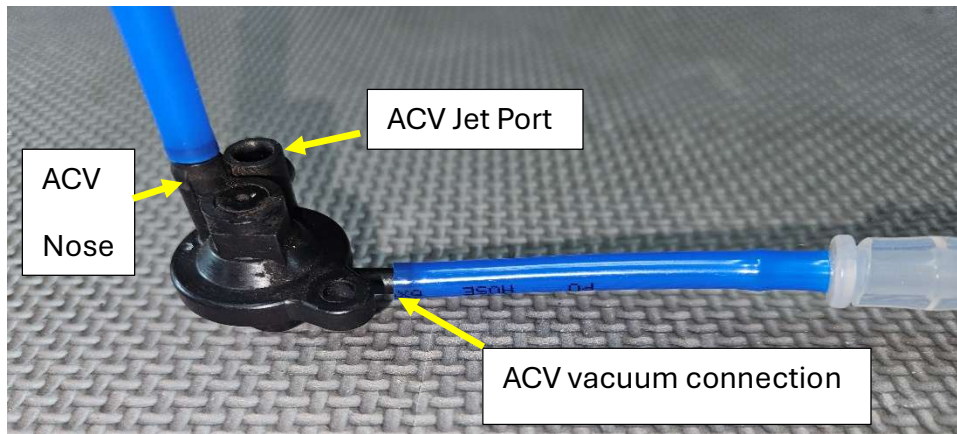


Test Setup

4. Attach Mityvac to the vacuum connection of ACV.

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5. Connect blue tube to the ACV Nose.



The Test

6. Blow through the nose tube and verify flow out of the ACV Jet port.
7. Draw greater than 16 in HG vacuum.

- a. Verify vacuum will hold steady.

NOTE: If vacuum will not hold, the diaphragm is bad. Replace the ACV.

8. Blow into the nose tube and verify the path is closed. (NO FLOW)

- a. If vacuum holds but you cannot blow through, the diaphragm or valve is stuck.

NOTE: If the diaphragm or valve is stuck, replace the ACV.

9. Release vacuum.
10. Blow through the nose tube and verify flow out of the ACV Jet port again.
11. If the ACV passes the tests, it is good.
12. If the ACV fails any of the tests, it is bad. Replace the ACV.

END OF PROCEDURE

Dave

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