

Valkyrie 1500 Desmog Kit

This kit is based on the Shoptalk article found on the Valkyrie Riders Cruisers Club (VRCC) entitled “(De) -Smog Your Valkyrie.” The article was submitted by QueXpress (Normand in Quebec).
<http://www.valkyrieriders.com/shoptalk/desmog.htm>

A wealth of other information and recommendations is available by searching the VRCC site for “desmog.” Use this kit in conjunction with the above mentioned Shoptalk article, and recommendations from others on the forum.

I assume no liability for any damages, direct or otherwise, resulting from the use of this information. If you choose to use these parts, you do so **AT YOUR OWN RISK**.

NOTE: If you have a California bike, additional actions are needed for smog equipment on your bike. **This kit does NOT provide everything you need for a California bike desmog.** Refer to the VRCC 1500 Tech Forum for discussions on performing desmog of California models.

Desmog Kit contents



Air Box Seal Secondary Air Intake Port for the PAIR Control Valve

- 1-Bolt
- 1-SS Washer
- 1-Neoprene Rubber Seal washer
- 1-SS Washer
- 1-Locknut



Notes:

There are many ways to plug the Secondary Air Intake Port for the PAIR Control Valve. I have supplied these parts. Others use sealants and/or other hardware. Overtightening this bolt could crack the Airbox tube. It only needs to be tight enough for the Neoprene washer to seal against a few inches of vacuum.

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Top of Heads Air Pipe Hole

- 4-14mm Brass Freeze Plugs
- 4-Nickel Plated Metal Snap-in Panel Plugs

Notes:

I recommend you clean the surface with some cleaner and wipe dry. Then prep the plug with some Permatex Form-A-Gasket #1 sealant. It is designed for freeze plugs and other press-fit applications, as well as gaskets. Just a thin coating is all you need. Seat them far enough in to allow room for the prongs of the chrome cap. If the chrome caps pop up put some sealant on the prongs.



brake

Intake Manifold Seal to replace Vacuum Nipple

- 6-Bolts
- 6-Copper seal (crush) washers

Notes:

Bolts and washers instead of rubber caps are to seal all 6 intake ports. All 6 are supplied for who do not use a vacuum operated petcock. If a stock petcock, leave one nipple to supply the vacuum operated petcock. Store the removed nipples for when a carb sync is needed. I use the back slot of the battery box to store them.



supplied those you have



Bolt and washer

Original bolt from airpipe bracket

Chrome Cap

This is # 6 on my bike the way Attic Rat did it.

Bottom of Heads Air Pipe Hole Seal

- 2-Bottom Plate Gaskets
- 2-Bottom Plates
- 4-Bottom Plate Screws

Notes:

Once again there are many options for sealing off the Air Feed Pipes. I made aluminum plates with metal reinforced graphite gaskets for this kit. New Allen head screws are supplied. You can use your original ones, but I find it easier to install the Allen head screws using a ball head Allen wrench, especially if you are doing so without removing the exhaust.

