

Valkyrie Belly Tank Information Packet

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Contents of kit:

Fuel tank with fuel pump and fuel lines all attached
(fuel pump model – Facet/Purolator #40178; fuel filter Wix 33049)
(2)- stainless steel brackets (ss brackets)
(2) 5/16 x 3/4 bolts, nuts and washers
Weld in bung with 1/2” adaptor
(2) 12mm nuts
Box with 5/16” fuel filter with 3 hose clamps
(Fuel filter – Wix 33027)
Foam block
Warning sticker

Special Tools required for installation

3/4” wobbly socket 3/8” drive
drill motor
5/16th drill bit
3/4” Sheet metal drill



You need a professional to purge, drill, and silver solder bung in tank as per directions.

WARNING: an experienced welder should do this portion of the job. Please don't learn on YOUR fuel tank.

- Drain and remove fuel tank.
- Remove fuel petcock valve.
- Purge fuel from tank.
- Clean paint from area as shown below.
- Locate and center punch fuel tank as per following pictures.



With tank upside down measure from center of petcock $\frac{3}{4}$ " to the left and mark.



From center of petcock measure to rear of tank $1 \frac{1}{4}$ " and mark

- Drill $\frac{3}{4}$ " hole at located point, DO NOT OVERSIZE!!
- Install bung with siphon tube pointing forward. Mark fitting so tube points forward.



Tube marking

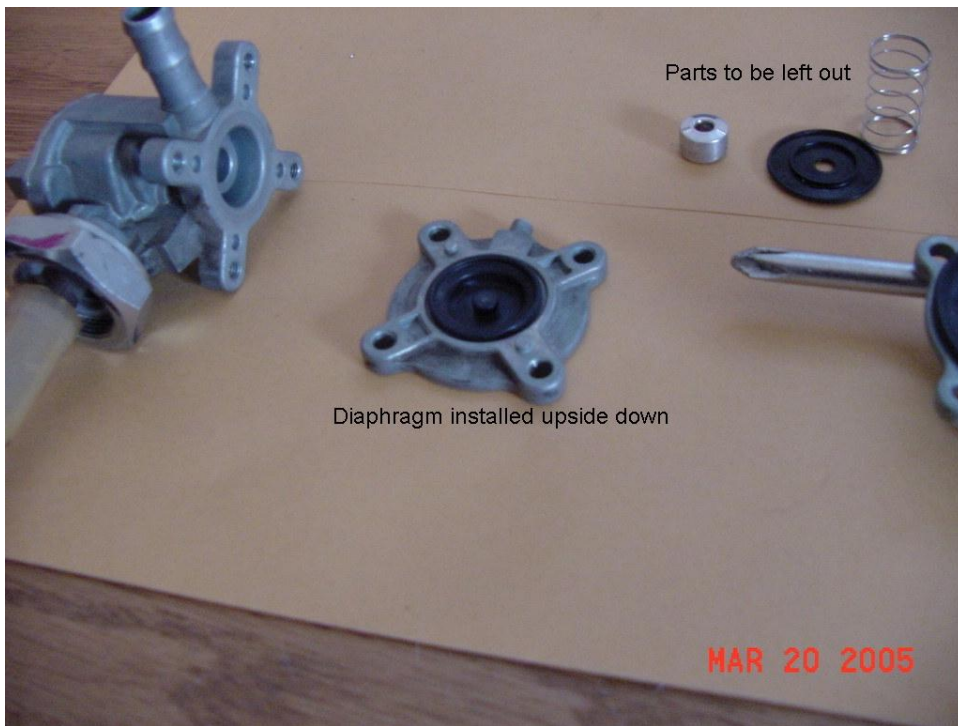




- Silver solder bung with hex, flush against tank. (Silver brazing / hard brazing, not low temperature solder)
- Locktight 3/8" x 1/2" adapter into bung.

Petcock:

1. Disassemble petcock valve by removing 4 screws.
2. Remove diaphragms from center slug.
3. Reinstall fuel diaphragm backwards (upside down) from original position.
4. Reassemble petcock valve without spring, spring seat and slug. (should only have 2 diaphragms).
5. Replace petcock valve back into tank in original position.



- Place motorcycle liftjack under engine, raise motorcycle off of kickstand.
- Engine jack should be under engine so as to lift front of motorcycle.



- Remove kickstand switch and remove kickstand.
- Remove muffler-mounting nuts on both sides.
- Place ss brackets on muffler studs and reinstall nuts loose. (brackets go on with steps toward the interior of motorcycle)



- Place fuel tank upside down on table and set kickstand bracket into notch and align bolt holes, making sure bracket fits flat on surface without interfering with tank itself.

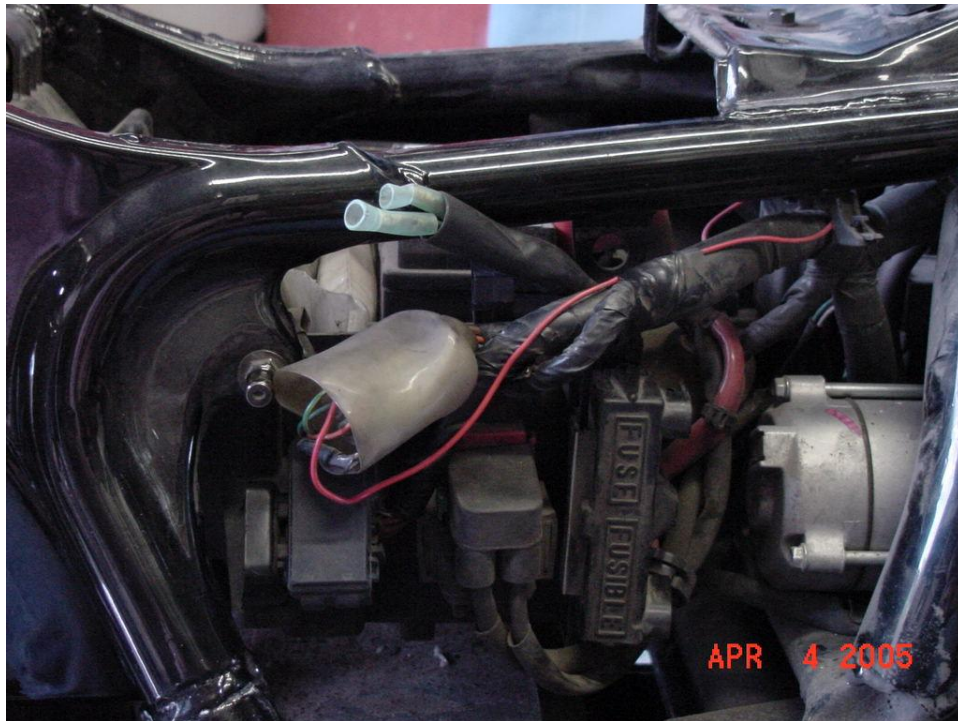


Some kickstand castings may require slight grinding on rear edge as shown above

- Cut 5/16th inch fuel line at white mark, you should have 16 inches of hose from pump, which connects to carburetor fuel line with supplied filter and the remainder will loop forward towards the carburetors & roll 180 degrees back to the petcock on the fuel tank (this is your vent line). When connecting to the Honda fuel line use smaller hose clamp that is supplied with filter marked with white.
- Set belly tank on floor and push fuel lines up between frame cross member & clutch cover.
- Feed electrical wire up the right hand side in front of the cross member and to the inside of the driveline and into the right side cover.
- Raise belly tank into position with kickstand bolts going thru front holes of tank. Hold tank in place with foam block that is enclosed.



- Place kickstand back into position; use new 12mm nuts to re-attach.
- Place 1/8th inch shim between back corner of tank & swing arm on right hand side with rear suspension at full travel. (slot screw driver works great)
- Drill 5/16th holes in aluminum arms on tank in line with ss brackets.
- Insert bolts and tighten muffler nuts.
- Plug electric wires into Accessory plug located behind right side panel. (Fuse with 5 amp max)



- Black wire from pump connects to green, which is the ground.
- White wire from pump connects to light green with red strip which is accessory circuit.

Finally:

- Put main fuel tank in place.
- Tank vent line should be 22" long and connects to the petcock valve using enclosed clamp.
- With back of fuel tank raised slightly connect ½ inch swivel fitting to main fuel tank.
- Place yellow sticker on cross member behind tank.



- Re-connect vacuum line to petcock or plug vacuum line and place below carbs
- Re install fuel tank bolts.
- Put fuel in tank & check for leaks!!
- Turn key on (not starting it) to MAKE SURE PUMP RUNS AND TO CHECK FOR LEAKS!!

This should function just like before only with more fuel capacity & a fuel pump.

In case of fuel pump failure: First turn petcock to off position. Using the pair of pliers that are in your tool kit, we disconnect oem carb hose from the fuel filter and reconnect it to the petcock. Using the fuel filter reconnect both hoses from the belly tank to prevent any fuel lose. You now have by passed the belly tank and continue running off what is left in the main tank/reserve on a manual petcock.