

V-Twin Mfg.
BOBBED GAS TANK KIT, 3.2 GAL, LSP
For use on 1995-2003 XL
VT No. 38-0033

This is a custom application and rider safety depends on proper installation. This product should only be installed by a knowledgeable and trained motorcycle technician. V-Twin Mfg. accepts no responsibility for improper installation.

This kit Includes tank, mount hardware, chrome dash which accepts electronic speedometer for 1995-up models. Dash does not accept bobbed type key switch.

Installation Instructions:

1. Remove the speedometer and tachometer (if necessary) Remove existing fuel tank. Retain the petcock. Remove the back riser cover on Custom models.
2. Remove ignition switch and housing from coil bracket and remove coil mounting bracket. Cut the cable tie around the main wiring harness just above the coil to get more slack in the wires going to the ignition switch.
3. Mount front bracket (6) onto frame using nuts, bolts and washers (9), (7) and (8). Pass bolt through unthreaded hole closet to the front of bracket, then through the frame mounting hole. This bolt should be trimmed flush to the nut to prevent rubbing on the inside of the tank.
4. For 883 models, attach horn bracket (15) to front bracket (6) using nuts, bolts, star and flat washers (9, 17, 14, 8, and 2).
5. Route main wiring between the legs of the new coil mounting bracket (5) and attach it to the front bracket using the button head bolts, star washers and nuts (13, 8 and 9) Use the holes that are farthest back on the front bracket. Make sure that no wires are pinched or rubbing against sharp edges.
6. Remount the coil replacing the OEM threaded back plate with the provided "L" shaped threaded back plate. The "L" should hang down on the right side of the bike. Attach the ignition switch housing to the front side of the bike. Attach the ignition switch housing to the front side of this bracket using original button head screw.
7. Install rubber grommets (3) into holes in the front mounting tabs and push in metal inserts (4).
8. Push metal shoulder inserts (10) into rubber shoulder spacers (11).
9. Pass the new longer double threaded stud (16) through rear tank mounting hole in frame tube, then assemble provided spacers, washer and rubber shoulder spacers (26, 2, 10 and 11) onto each end of stud. Tighten securely.
10. Attach petcock to tank using thread sealer and adapter (27), if necessary.
11. Carefully slide tank onto rear mount until front grommets align with threaded holes in front mount. Install screws and washers (1 and 2). Tighten securely.
12. Cut new fuel line (25) to appropriate length and install with hose clamps (18).
13. On Custom models, unplug enough connector wires (exposed between the risers) to be able to untangle and route the 2 bundles of wires going to the speedometer so they can exit out under bottom of the back cover.
14. Remove the back cover of the speedometer housing. Remove the rubber boot that covers the trip reset button and remove the button.
15. One bundle of 3 wires on Customs (1 White/orange, 1 orange/white and black) can be disconnected from the terminals on the back of the speedometer body. Carefully note where each goes, disconnect and pull these 3 wires out through the hole in the back cover. For all other models, unplug under the seat to be able to pull the wires through the OEM mounting bracket.
16. The other bundle of 3 wires (1 orange/white and 1 black) are connected to a multi pin connector. On Customs this is between risers. These wires cannot be disconnected in the speedometer so they must be removed from the multi pin connector or cut and re spliced.

Note: An alternative to disconnecting the wires from the back of the speedometer and cutting and splicing the other individual wires, is to cut all 6 wires approximately 3" from the back of the speedometer and install a new 6 pin block connector that can be hidden in the bottom of the dash. This will greatly simplify the installation and removal process. Such connectors are available from any electronics supply house, a well-stocked auto supply store or Radio Shack. It is necessary to cut or disconnect these wires to be able to remove the speedometer back cover on customs and the mounting bracket on all models. (An alternative, though is to use tin snips to carefully cut a slot in the hole in the back cover on Customs, and cut down the side of the mounting bracket to free the 2 wires bundles. Remove the bottom rubber gasket.

17. Cut the dash mounting plate (21) from the original hardware kit at the bend line, just below the speedometer hole, debur and mount to the gas tank with the 2 provided screws and washers (22, 23 and 24).
18. If you choose to splice the wires (or install bullet style male/female connectors) or you can reinstall the wires back into the multi pin connector. Mount the speedometer with the original rubber gasket into the dash from the top using the original screw through the mounting tube in the dash and then make your splices. Any splices or crimped connections should be carefully soldered, spaced and insulated so as not to cause a short.
19. Reconnect the other 3 wires to their terminals on the back of speedometer or plug back in under the seat.
20. Reroute the wires from the reset and install the reset button and install the reset button in the hole provided on the left side of the new dash. Reinstall the rubber boot on the outside.
21. Route the 2 bundles of wires under the front edge of the dash.
22. Install the rubber trim to the edge of the dash and secure to the tank with the domed screw and washer (19 and 20). Be sure to take the appropriate measures to waterproof the back of the speedometer.

Warning: Check all mounts and fuel line fittings before filling with fuel and riding the motorcycle.

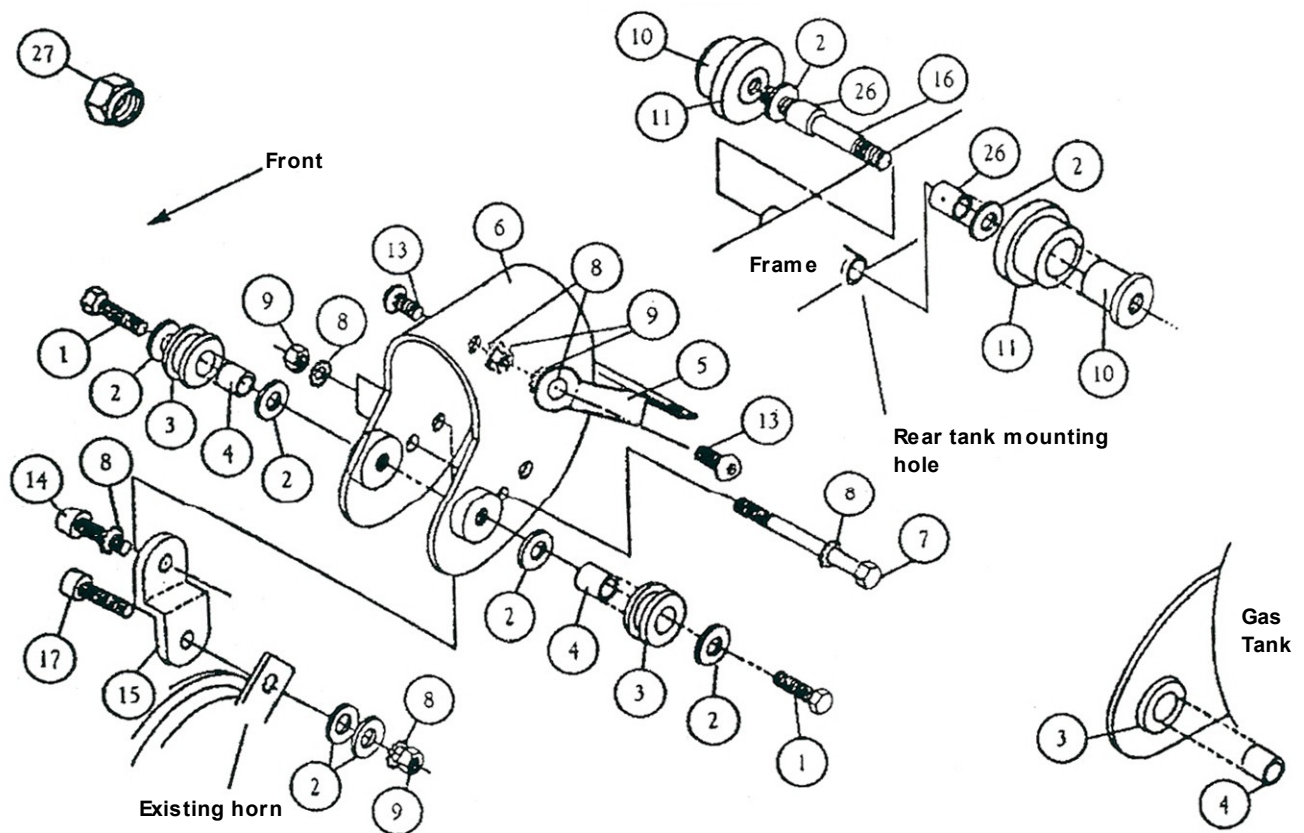
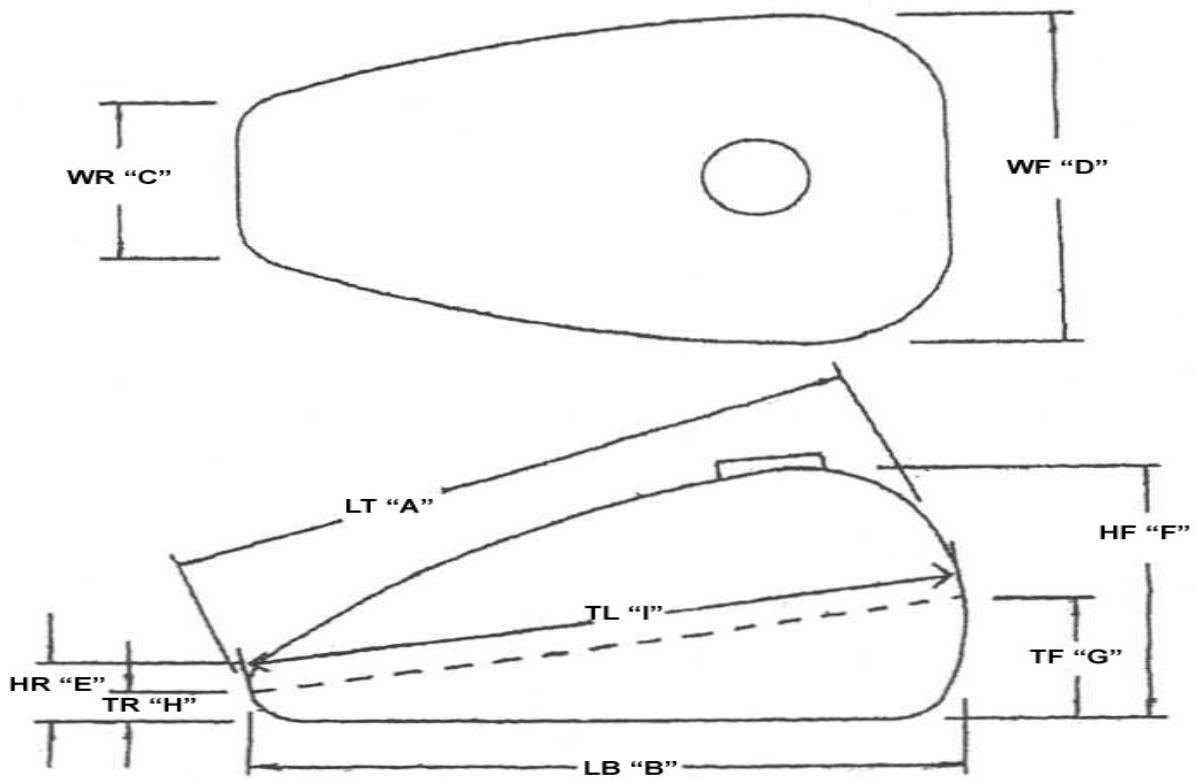
23. Turn signals mounted under the handlebars may need to be relocated to the top triple tree.

Gas Tank Measurement Chart

Item	Description	Measurement
A	Length of tank	19.5"
B	Length of bottom	17"
C	Width of Rear	7"
D	Width of Front	14"
E	Height of Rear	3"

Item	Description	Measurement
F	Height of front	8.5"
G	Tunnel height in front	7.5"
H	Tunnel height in rear	2"
I	Tunnel Length	18.5"

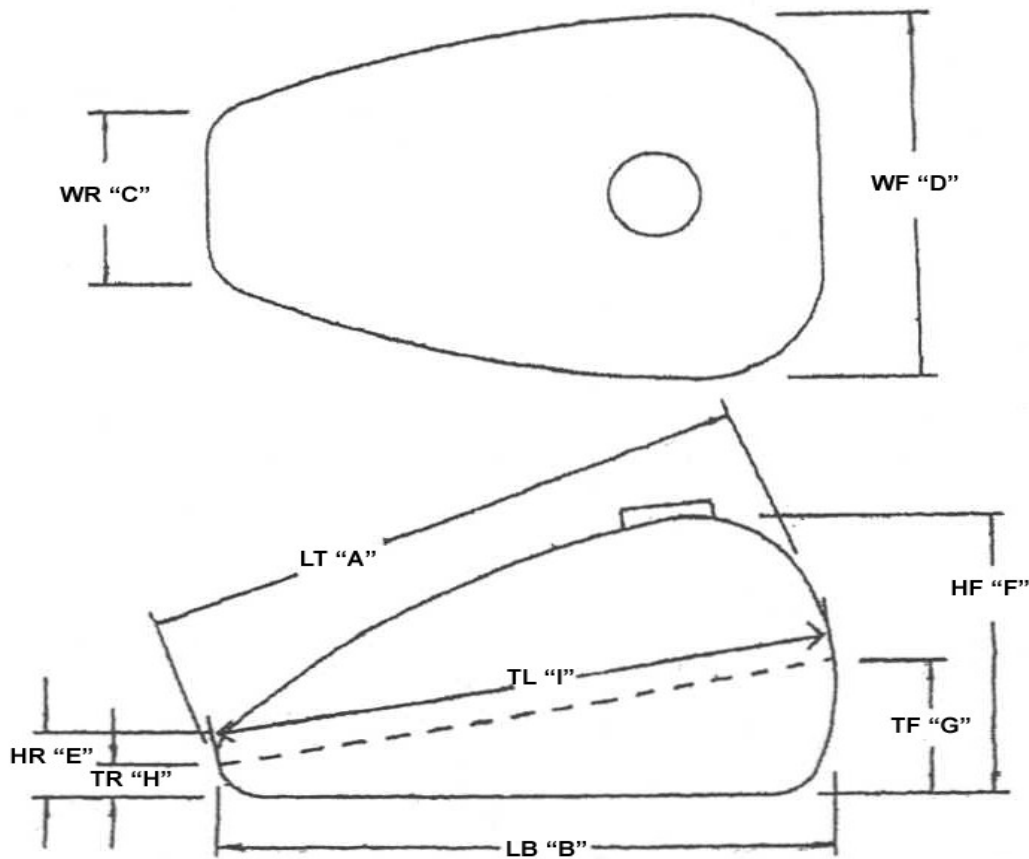
Left side petcock	X
Right side petcock	



**V-Twin Mfg.
AERO BOB TANK
VT No. 38-0033
Fits 82-03 XL**

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Gas Tank Measurement Chart



Item	Description	Measurement
A	Length of tank	19'
B	Length of bottom	18"
C	Width of Rear	7"
D	Width of Front	13"
E	Height of Rear	2"

Item	Description	Measurement
F	Height of front	5"
G	Tunnel height in front	6.5"
H	Tunnel height in rear	.5"
I	Tunnel Length	19"

Left side petcock	x
Right side petcock	