

V-Twin Mfg.
3.2 Gallon Bobbed Gas Tank Kit
With Left side Petcock
Fits 1979-1981 XL Models
VT No. 38-0094

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 will require the rewiring of your stock ignition switch. Therefore knowledge of basic wiring is essential to the successful installation of this product. You must refer to the service manual for the ignition switch wiring diagram of your specific model motorcycle.

Installation Instructions - Refer to Illustration Diagram listed on page two of this instruction sheet:

1. Disconnect the battery ground terminal. Drain gas from the existing tank. Remove the existing gas tank petcock and retain for installation in the new tank. Remove the existing gas tank, and speedometer.
2. Install the rear gas tank mount #02 using screw #05, lock washer #06, and hex nut #07. Install the rubber bushings #04 and rear mount spools #03.
3. Install the left and right front gas tank mounts # 12 & 13 with screws # 14 & 15, spacers #16 and nuts #17.
4. Install rubber grommets #08 and spacers #09 through the front tabs on the gas tank.
5. Mount the gas tank #01 by placing the rear U brackets over the rubber bushings #04, and align the front tabs with the hex nuts on the front tank mounts # 12 and 13.
6. Install screw #11 through washers #10 and front tank tabs into the left and right front gas tank mounts # 12 and 13.
7. Connect a 1/4 ID rubber fuel hose between the two cross over tubes on the lower forward portion of the gas tank. Secure the hose using hose clamps. Rubber fuel hose and hose clamps sold separately.
8. Install the dash panel mounting stud #31 through the dash base #27, and secure using lock washer #32 and hex nut #33.
9. Install the speedometer #21 on the dash base #27 using rubber bushings #24, speedometer mounting pins #25 and mounting pin clips #26.
10. Feed the speedometer cable #37 behind the gas tank forward loop and connect to the speedometer #21.
11. Install the dash base #27 onto the tank using screws #34 and washers #35.
12. Install the ignition switch #28 to the dash base #27 using screws #29 and lock washers #30.
13. Install the instrument lamp #36 into the speedometer base #21.
14. Connect the stock instrument lamp wire removed in step 1 to the new speedometer #21. Refer to your OEM service manual for wiring diagram.

Note: The ignitions switch used in this kit is a stock 5 post switch used on a 1936-1967 FL and must be wired accordingly. The switch is a combination ignition-light switch. It has three positions plus a center-off position. One notch counterclockwise illuminates parking lights only. The first notch or click clockwise from the center-off position is ignition only while the second click is running lights and ignition.

- A. Post 1 Power supply in.
- B. Post 2 Headlamp
- C. Post 3 Not used with standard wiring
- D. Post 4 Tail lamp
- E. Post 5 Ignition coil

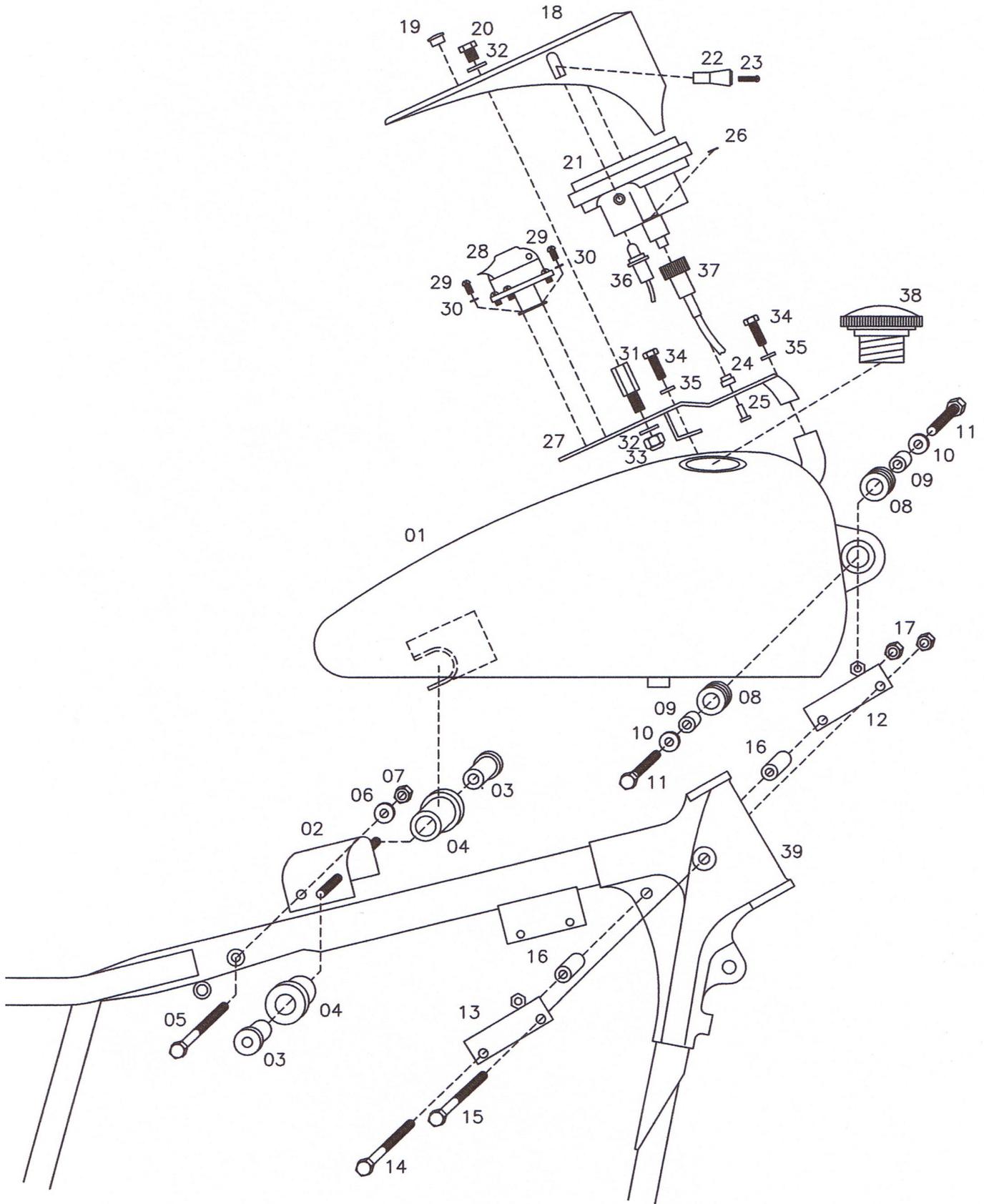
15. Install indicator lamp lenses # 19 into the dash panel # 18.
16. Install the dash panel # 18 over the speedometer #21, and the ignition switch #28.
17. Secure dash panel # 18 in place with dash panel screw #20 and lock washer #32.
18. Install the speedometer reset knob #22 with screw #23 onto the speedometer #21.
19. Install the gas caps #38 into the gas tank #01.
20. Install the fuel petcock in the gas tank #01 petcock fitting.
21. Reconnect the battery ground terminal.

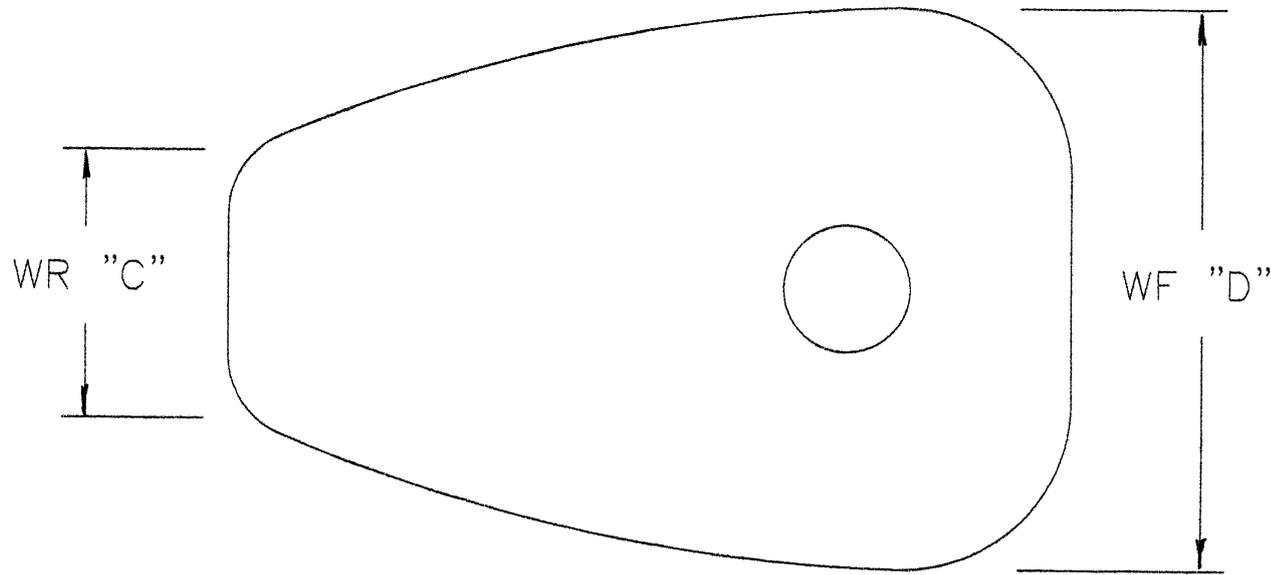
Note: Be sure to test fit gas tank prior to painting.

Parts List:

Item #	Qty	Description
1	1	Gas Tank
2	1	Rear Gas Tank Mount
3	2	Rear Mount Spool
4	2	Rubber Bushing
5	1	5/16-18 UNC x 2-1/4 Hex Head Screw
6	1	5/16 Split Lock Washer
7	1	5/16-18 UNC Hex Nut
8	2	Rubber Grommet
9	2	Spacer 5/16" ID x 1/2" OD x 1/2"
10	2	5/16 Flat Washer
11	2	5/16-18 UNC x 1 Hex Head Screw
12	1	Left Front Gas Tank Mount
13	1	Right Front Gas Tank Mount
14	1	5/16-18 UNC x 3 Hex Head Screw
15	1	5/16-18 UNC x 3-1/4 Hex Head Screw
16	2	Spacer 5/16" ID X 3/4" OD X 1"
17	2	5/16-18 UNC Nyloc Hex Nut
18	1	Dash Panel
19	3	Indicator Lamp Lens
20	1	Dash Panel Screw

Item #	Qty	Description
21	1	Speedometer
22	1	Speedometer Reset Knob
23	1	#4-40 UNC Round Head Screw
24	2	Rubber Bushing
25	2	Speedometer Mounting Pin
26	2	Speedometer Mounting Pin Clip
27	1	Dash Panel Base
28	1	Ignition Switch
29	4	#8-32 UNC x 1/4 Slotted Round Head Screw
30	4	#8 Split Lock Washer
31	1	Dash Panel Mounting Stud
32	2	7/16 Internal Tooth Lock Washer
33	1	7/16-20 UNF Nyloc Hex Nut
34	3	5/16-18 UNC x 1 Hex Head Screw
35	3	5/16 Split Lock Washer
36	1	Instrument Lamp
37	1	Speedometer Cable
38	2	Gas Tank Cap
39	1	Motorcycle Frame (not included)





- A Lenth Top
- B Length Bottom
- C Width Rear
- D Width Front
- E Height Rear
- F Height Front
- G Height Tunnel, Front
- H Height Tunnel, Rear
- I Tunnel Length

