

VIPER, COBRA &

COBRA XL BY



Auxiliary Fuel Tank **Installation Instructions**

- 1 – AFT-54653 Fuel Tank, 3.4 gal
 - 2 – FST-95499 6-32 x 3/8 truss Phillips machine screw
 - 2 – FST-30682 #6 SAE flat washer zinc
- 1 – AFT-0003 Fuel Tank Mount (installed)
 - 3 – AFT-0020 1/4 -20 x 1/2 flanged BHCS (installed)
 - 4 – FRM-0089 Tank Mount Frame Clamp, rubber cushioned
 - 5 – FST-96899 1/4-20 x 5/8 BHCS
 - 4 – FST-41492 1/4-20 Nyloc nut
 - 8 – FST-18288 1/4 flat washer
 - 1 – AFT-0004 1-3/4" x 1-3/4" neoprene strip, adhesive backed
- 1 – AFT-0022 Driveshaft Loop
 - 2 – FST-18288 1/4 flat washer
 - 2 – FST-41492 1/4-20 Nyloc nut
- 1 – AFT-0007 Relay Box Clamp Bracket
 - 1 – FST-83104 10-32 x 5/8 truss Phillips machine screw
 - 1 – FST-58837 10-32 Nyloc nut
 - 1 – AFT-0008 Relay Box Clamp Vinyl Coated Strap
 - 1 – AFT-0020 1/4 -20 x 5/8 BHCS
 - 1 – FST-41492 1/4-20 Nyloc nut
- 1 – AFT-31611 Fuel Line, Braided Teflon -10"
 - 2 – AFT-57988 5/8" 90° Fitting
 - 2 – FST-27918 Oetiker clamps
- 2 – AFT-57152 5/8" Grommets
- 1 – AFT-53052 Vapor Return Line Hose - 48"
 - 2 – AFT-90712 1/4" 90° Fittings
 - 2 – FST-33601 Oetiker clamps
- 2 – FST-82486 1/4" Grommets
- 1 – AFT-0021 Hole Locating Pattern, fiberglass

For installation assistance, call Parts & Service @ 434.263.8866

Warnings and considerations:

1. **Disclaimer** - These instructions assume a level of understanding of motorcycle repair and maintenance beyond that of a “beginner” and/or “novice” and California Sidecar cannot be liable for an installer’s failure to understand or follow these instructions as written. Likewise, California Sidecar cannot be responsible if any of the steps are omitted or shortcuts are taken, or parts other than those supplied by California Sidecar are used.
2. **“WARNINGS”** are all printed in bold type and capitalized. They mean to use extreme care in a given step so as not to damage the part, motorcycle, and/or yourself.
3. **Always** wear safety glasses when using hand and/or power tools.
4. All directional references to the “right side” and the “left side” are as you were seated on the motorcycle.
5. All directional references to “forward” mean to the front of the motorcycle while “back” means the rear of the motorcycle unless otherwise stated.

When working in and around the fuel system, always work in a well-ventilated area, free from sparks and open flames.

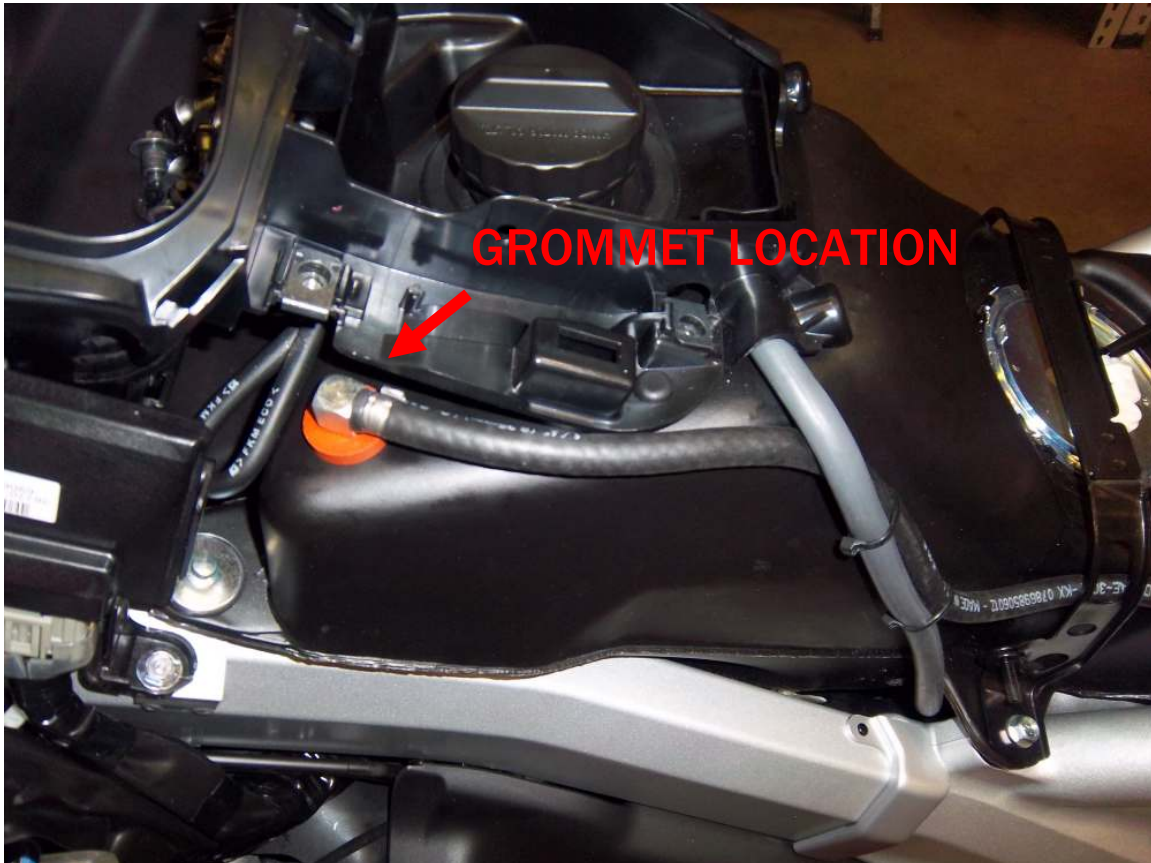
1. Remove two mounting screws that connect relay box to the inner fender. (top)
2. Remove three relays and two solenoids from plastic holder on left side of inner fender.
3. Remove three rivets from the mounting bracket that holds the power control relays on the left side of the inner fender. Removed in Step 2.
4. Remove two bolts that hold inner fender. Cut zip tie on left side and remove inner fender.
5. Remove the top shelter per Honda Service Manual.
6. Drain all fuel from tank.
7. Remove locking ring of fuel pump using Honda tool #07ZMA-MCAA201. Remove base ring and remove fuel pump.

TIP: Wipe the green o-ring dry from the fuel pump and place it into the freezer while you install the Aux Tank. This will reduce the amount of swelling to the o-ring.

Warning: Use caution when drilling in steps 9-11. Ensure that the drill is perpendicular to the bottom of the tank.

8. Wipe any excess fuel from tank. Place the supplied fiberglass Hole Locating Pattern into position on the OEM fuel tank. The template will conform to the lower right forward bulge on the tank.
9. Locate hole in template and drill 1/8" pilot hole in OEM fuel tank. Remove template and discard.
10. Using a 3/8" drill bit enlarge 1/8" pilot hole to 3/8".
11. Using a 3/4" knock out punch, enlarge the 3/8" hole. Deburr the hole.

- 12. Using the grommet as a guide place it on the top left side of the OEM fuel tank. Approximately 1/8" from vent and from splash tray. Drill 1/8" hole then enlarge it to 33/64". Refer to picture.**



- 13. Wipe out tank with a clean cloth to eliminate drilling chips and dirt.**
- 13. Place two tank mount frame clamps on the left and right side of the motorcycle frame just above saddlebag crash guard mounts.**
- 14. Apply 1-3/4" x 1-3/4" neoprene strip to front tab of tank mount. Slide auxiliary tank mount into position by inserting front tab of auxiliary fuel tank mount into slot where inner fender was removed. The slot is located on the back of the battery box or main tank strap.**

- 15. Install four 1/4-20 x 5/8 BHCS through rubber insulated strap mounts and through fuel tank mounting bracket. Make sure the auxiliary fuel tank is all the way forward. Then tighten all four fasteners.**
- 16. Install the two 5/8" grommets into the bottoms of both tanks.**
- 17. Lubricate the fittings with dish soap.**
- 18. Install the assembled 5/8" fuel line into the two tanks by pushing the 90° fittings into the grommets.**
- 19. Install the two 1/4" grommets in the tops of both tanks.**
- 20. Install the assembled 1/4" vapor return line into the two tanks by pushing the 90° fittings into the grommets. Refer to pictures for routing.**





- 21. Refer to picture above. Place relay box, right side down with tab between OEM fuel tank and auxiliary fuel tank.**
- 22. Install relay box clamp bracket to frame cross over tube and fasten to upper relay block and tighten all fasteners.**
- 23. Wipe out tank with a clean cloth to eliminate drilling chips and dirt before filling tank.**
- 24. Add fuel to OEM tank and check all fittings thoroughly for any leaks.**
- 25. Reinstall fuel pump in reverse order as it was removed in Steps 6-7. Don't forget the green o-ring.**
- 26. Install two rubber bumpers taken from the saddlebag sub frame and install on cross over tube between auxiliary fuel tank and frame cross over tube.**
- 27. Install solenoid and plastic relay holder to left side of auxiliary fuel tank with two 6-32 x 3/8 truss head Phillips machine screws with washers and**

- tighten screws.
28. Install top shelter in reverse order it was removed. Make sure the vapor return line is not pinched after installing top shelter.
 29. Install driveshaft loop when installing driveshaft and tighten the two $\frac{1}{4}$ - 20 nyloc nuts with $\frac{1}{4}$ flat washers.

NOTE: The Auxiliary Fuel Tank will fill and drain directly off the OEM fuel tank. When filling the tanks, there may be a slight delay in the transfer of fuel from the OEM tank to the Auxiliary tank. Allow the fuel to migrate to ensure a complete fill-up.

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