oftracing.com

email scott moto

2006-2011 Yamaha Apex
Moto-R Kill w/Jacobson Roll-over valve
Installation Instructions

Included Parts:

1 – Moto-r Kill wiring harness including Pro Armor tether switch, Jacobsen Roll-over valve, crankcase breather filter, and necessary mounting hardware.

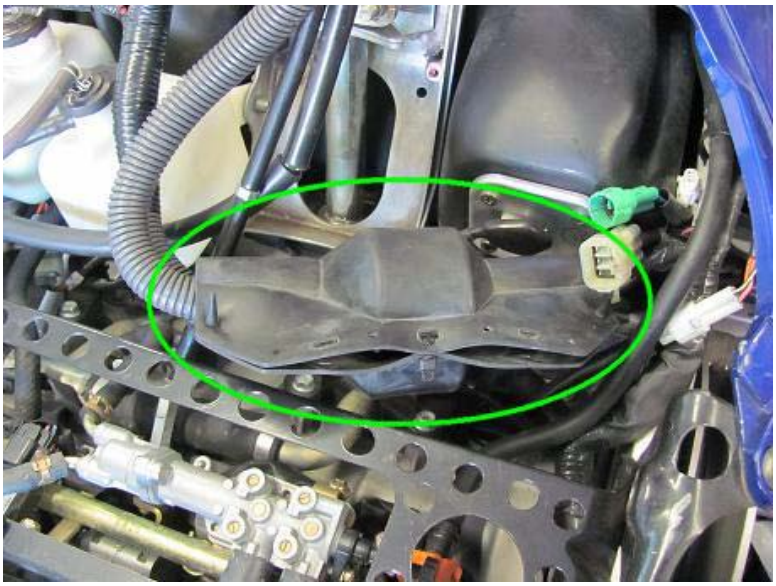
Step 1

Remove hood, side panels, chrome riser bezel, and headlight assembly as per service manual.

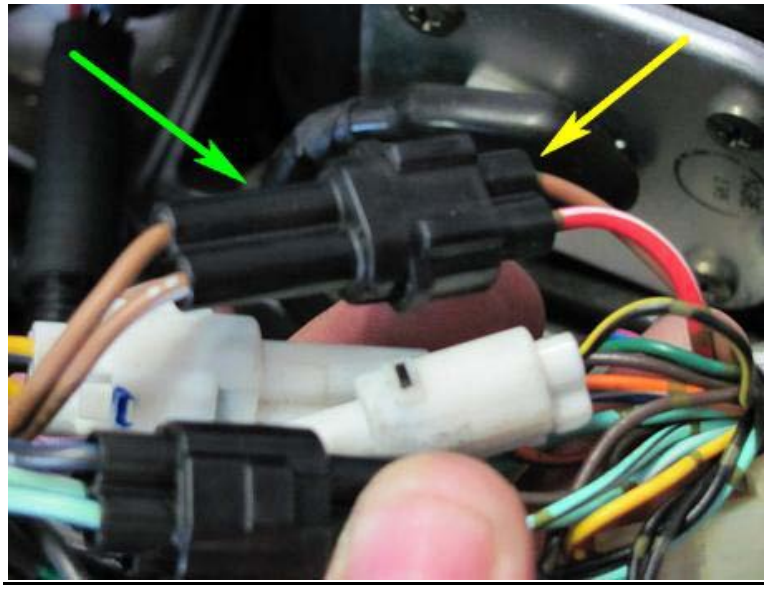
Step 2

Locate and remove the plastic shroud that covers the upper steering bushing and steering stop. Discard.

Step 3
Locate and open the wiring cover located just forward of the fuel tank on the clutch side of the sled.



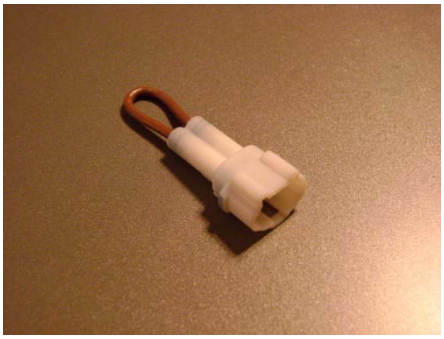
Step 4
Unplug the black two lead plug that has a red & a brown wire on the sled side of the plug (yellow arrow) and a brown-brown/white on the handlebar side of the plug (green arrow).

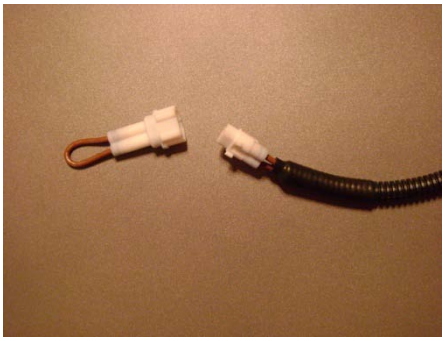


Step 5
OEM **Kill switch enabled**
(See pictures below)
Plug in the *female* OFT Moto-r Kill's white OEM style connector to the harness coming in from sled (red /brown wires – yellow circle). Plug the remaining *male* Moto-r Kill harness connector into the OEM connector that goes to the handlebar kill switch (brown-brown/white – green circle)

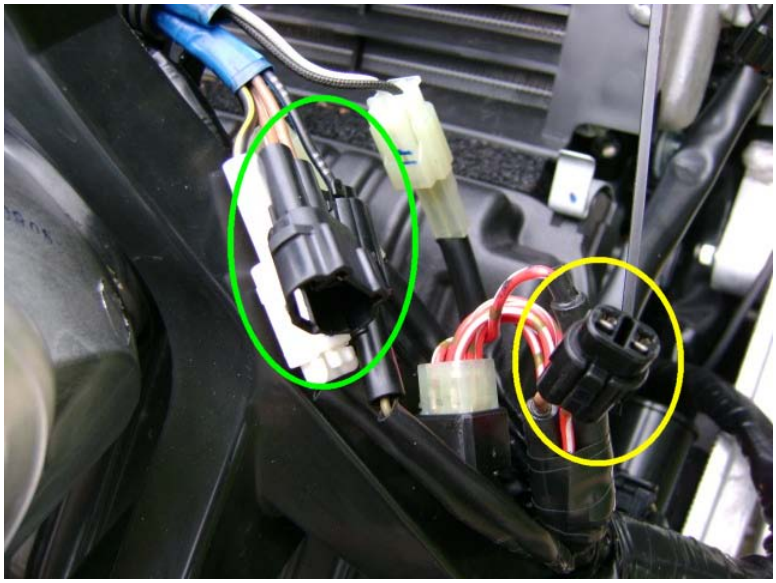
OEM **Kill Switch delete TEST PLUG**

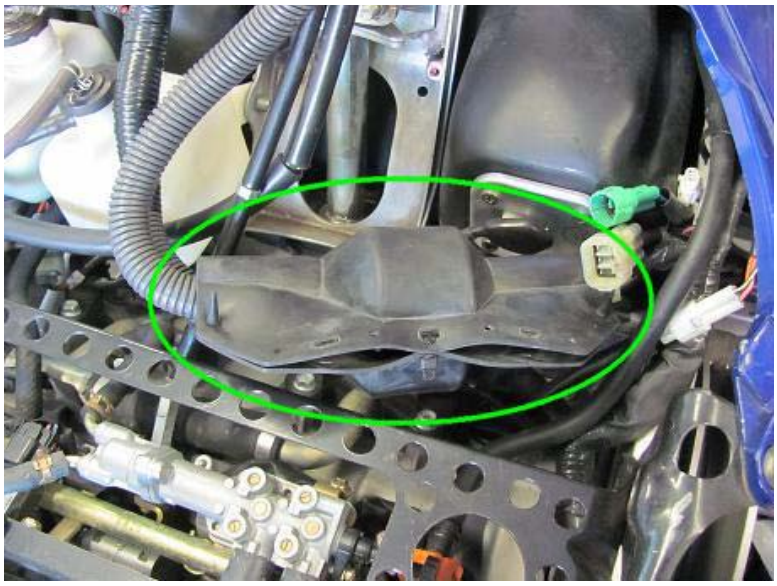
NOTE: Test plug is for circuit testing only – OFT Racing does not condone circumventing OEM safety devices such as the kill switch, which is exactly what the test plug does… nicely ;-)





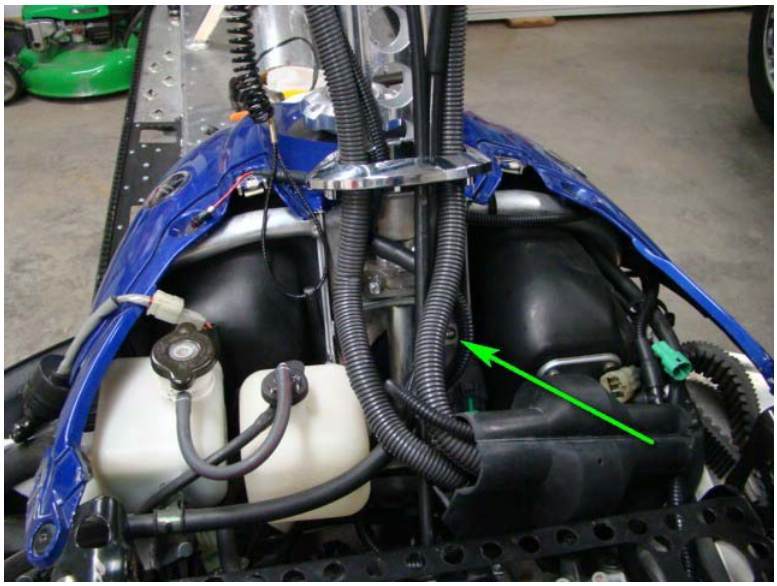
Plug in the OFT Moto-r Kill's *female* white OEM style connector to the harness coming in from sled (red /brown wires – yellow circle).Insert "test plug" into the remaining *male* Moto-r Kill harness connector. Leave OEM connector that goes to handlebar kill switch (green circle) disconnected and tucked in wiring cover. Insert any remaining wiring into wiring cover, and close up with zip ties.





Step 6

Mount Moto-R Kill relay to the clutch side hole that held the wiring cover, (removed in step #2) using supplied 5/16” x1/2” self tapping washer head self tapping bolt. Ensure proper location and clearances of ALL wiring to avoid any future harness damage.



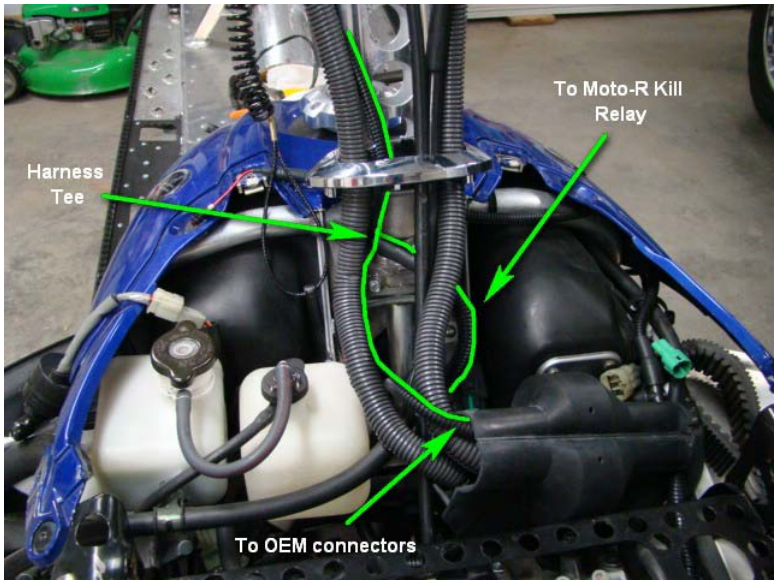
BE CERTAIN THERE IS NOWHERE WIRING WILL BE PINCHED, RUBBED, OR OTHERWISE DAMAGED DURING RIDING!

Step 7

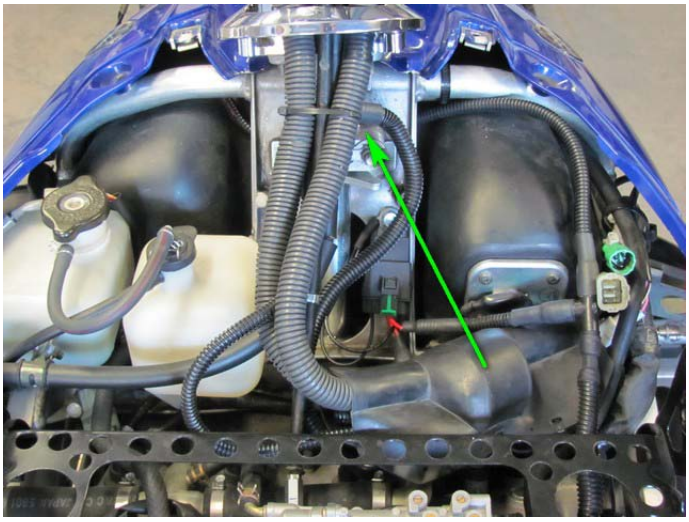
Mount Pro Armor kill switch on handlebars. For OEM bar applications, use included bar spacers (spacers to be removed for use with 1-1/8" bars).

Step 8

Route harness as shown below:

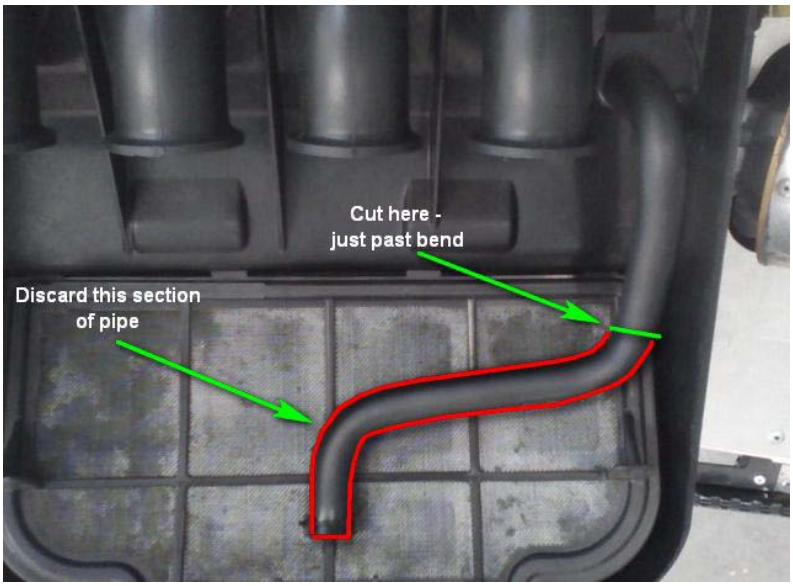


Zip tie harnesses as shown directly below Moto-R Kill harness tee.



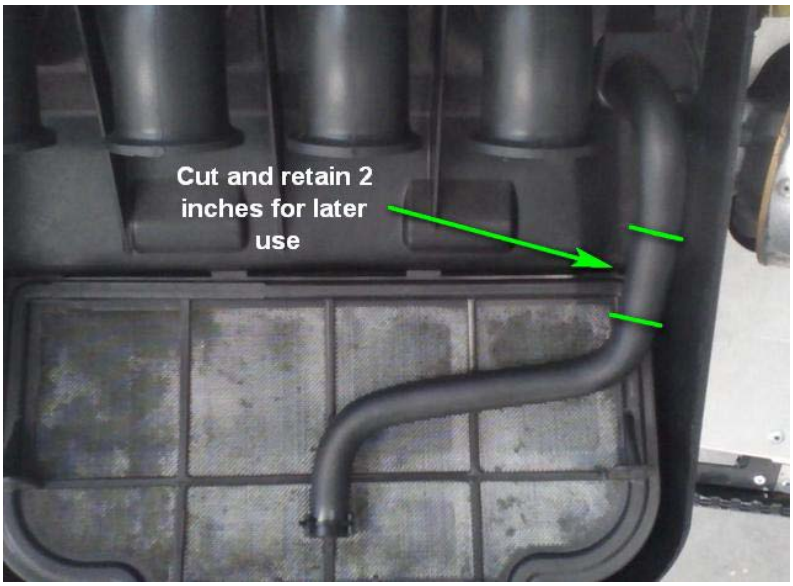
Step 9
Remove airbox as per service manual. Inside the airbox, locate the breather pipe, and remove pipe from air box.

Step 10
One end of the airbox breather pipe has holes in it. Cut this end of the pipe off as shown below.



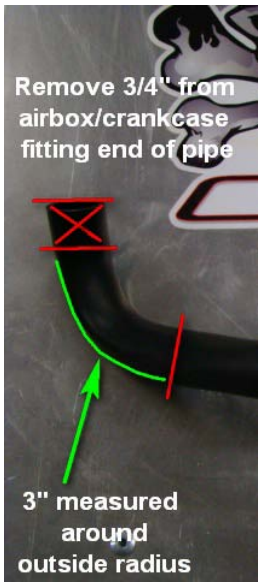
Step 11

Cut and retain the next 2” of the pipe for later attachment to the Jake valve.



Step 12

You will be left with approximately what you see below. Remove 3/4” from the end that attaches to the crankcase pipe fitting in the air box, then measure 3” around the OUTSIDE of the pipe radius. Cut the pipe, and retain this 90 for later attachment to the Jake valve.

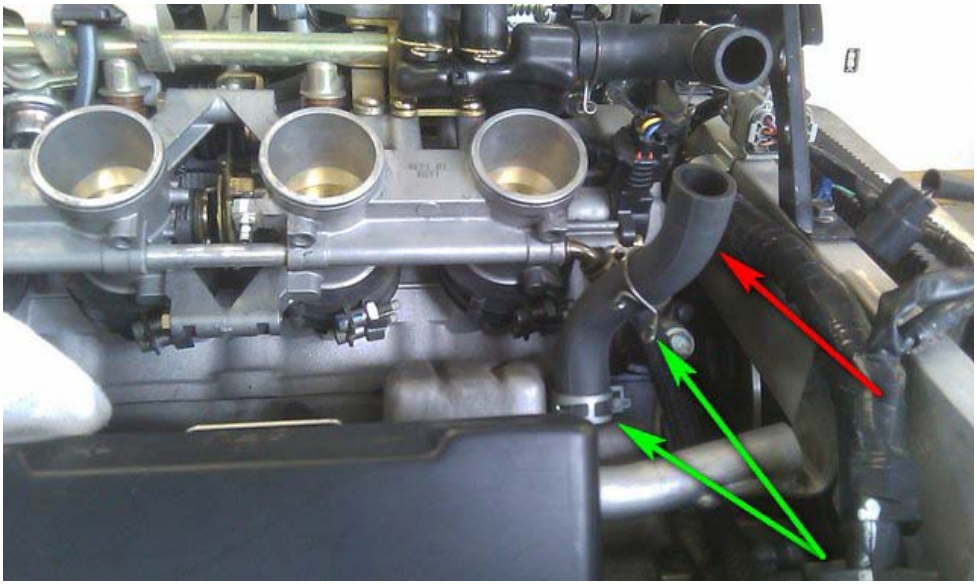


Step 13

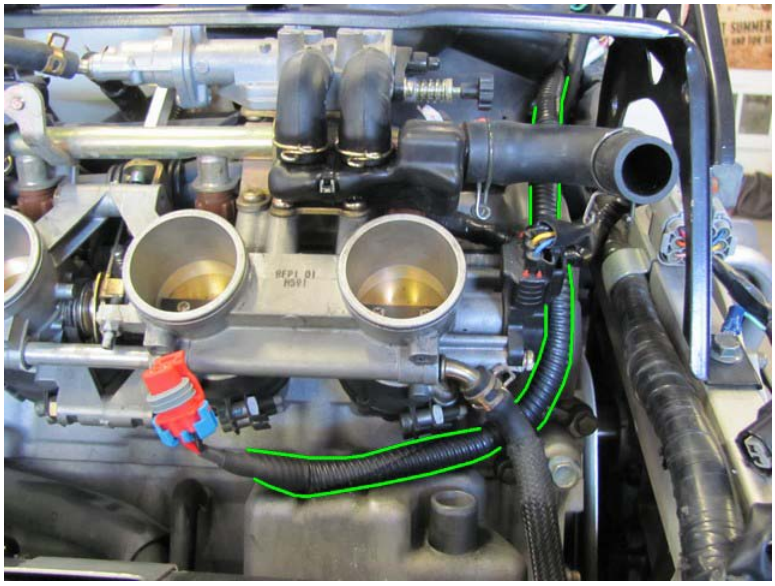
Attach the pipes you cut in the last few steps, and the supplied breather filter to the Jake valve as shown below using supplied hose clamps:

NOTE: Ensure hoses are attached exactly as shown above so inlet and outlet of valve is plumbed correctly.

Step 14
Remove breather pipe and squeeze clamps from crankcase fitting. Discard pipe, and retain both clamps for later use.

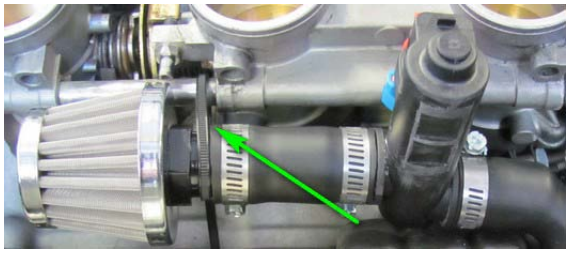


Step 15
Route Moto-R kill wiring harness under headlight mount, OEM wiring, and fuel rail return line, from wiring cover to Jake valve mounting location under throttle bodies. Plug in Jake valve.

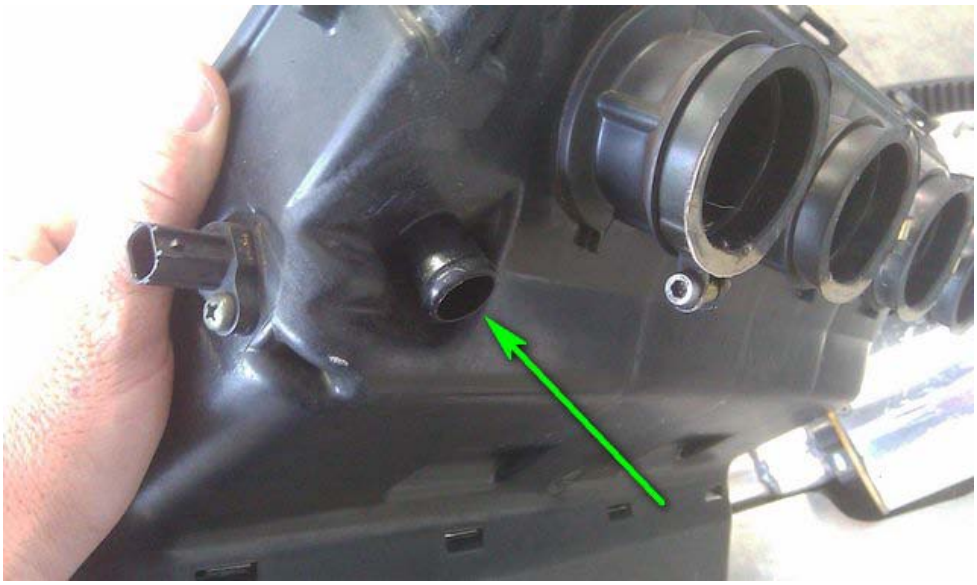


Step 16
Install 90 degree bend breather tube of Jake valve to crankcase fitting and parallel to the throttle bodies using OEM squeeze clamp as shown:

Step 17
Ensure Jake valve is as vertical as possible, tighten hose clamps, and then GENTLY secure the valve assembly to the fuel return rail with a zip tie. **DO NOT OVERTIGHTEN ZIP TIE.**



Step 18
For normally aspirated sleds that will be retaining the OEM airbox, install provided vinyl cap to underside of airbox where OEM crankcase breather pipe used to attach to airbox with remaining wire squeeze clamp.

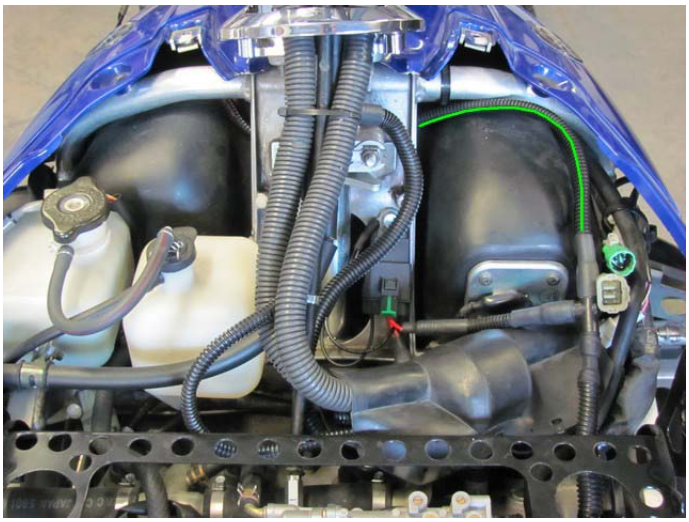


Step 19

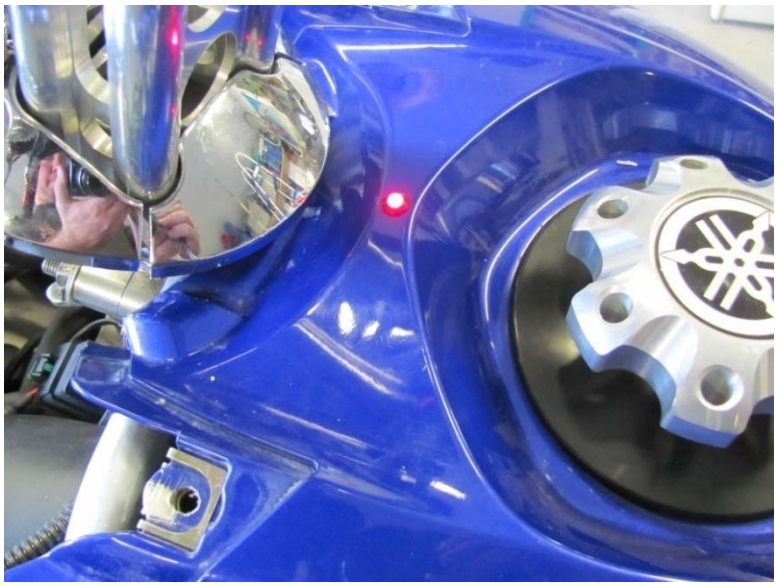
Route LED indicator light leg of harness as shown below, and Find a suitable location to mount the LED warning light. You'll want to be able to see the LED light from your normal riding positions. Ensure there is enough clearance underneath selected installation point and drill a 5/16" hole to mount the LED in. Install the black LED mounting sleeve. Align the LED bulb alignment tabs with the mounting sleeve slots, and push the LED bulb into the back of the mounting sleeve. You should feel it "click" when the bulb is fully seated in the mounting sleeve.

Note: The LED light will unplug from the black mounting sleeve. There is no need to cut the wiring harness to the LED, when removing any panel it may be mounted in. Simply unplug the LED from the back of the mounting sleeve. To reconnect the LED bulb, align the tabs with the slots in the mounting sleeve and snap into place.

The flashing red LED indicator light is to give you a visual indication when power is being supplied to the valve. (i.e. the roll-over valve is closed) To reopen the valve, re-insert the tether clip into the tether switch.
For proper valve operation, KEY SWITCH MUST BE IN "ON" POSITION.



Below is a suggested mounting position, however it can be mounted wherever you prefer:



Step 20
Test tether and ROV for proper operation. Reinstall airbox and all items removed prior to kit installation.

Thank you for purchasing another innovative "Over the Top" part from OFT Racing!


OFT
racing