



Vance & Hines VO2 Air Cleaner

(Will not fit 90 Degree VO2)

Example shown is a 2015 Electra Glide Ultra Limited

Note: All parts supplied in kit may not be used in your specific application.

Parts List

- (1) Air Oil Separator
- (1) Air Oil Separator Bracket
- (1) Length of 3/16" I.D. Hose
- (1) Length of 1/4" I.D. Hose
- (2) 1/4" Barbed x 1/8" NPT Fittings
- (1) 3/16" to 1/4" Couplings
- (1) 3/16" "Y"
- (1) 1/4" "Y"
- (2) 1/4-20x1/2" Pan Head Bolts
- (2) 1/4-20x1/2" Locking bolts

Torque Values

Head Vent Bolts 22-24 ft-lbs

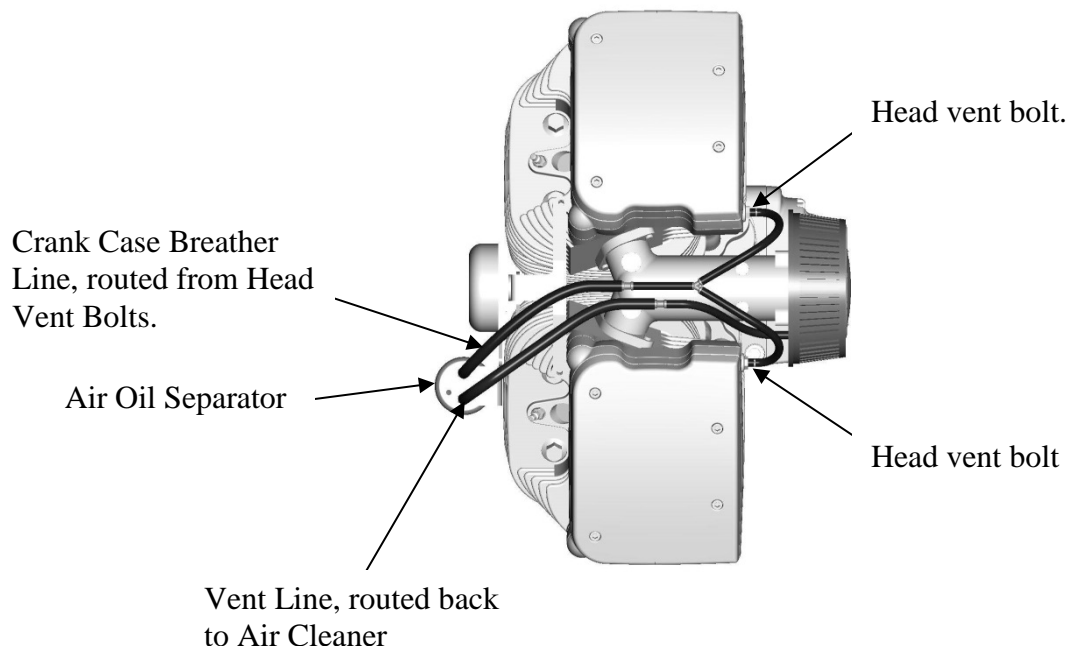
Air Filter Bolts 108-132 in-lbs

1/4-20x1/2" Pan Head Bolts 108-132 in-lbs

1/4-20x1/2" Locking Bolts 33-55 in-lbs

Illustration below is a general overview of the routing of lines and assembly of Moroso Air Oil Separator System.

This instruction manual contains model specific examples. Follow your model specific instructions or use generic illustration for installation. In some applications it will be easier to install this kit with fuel tank removed but is not necessary. If fuel tank is going to be removed follow service manual instructions for removal and installation.



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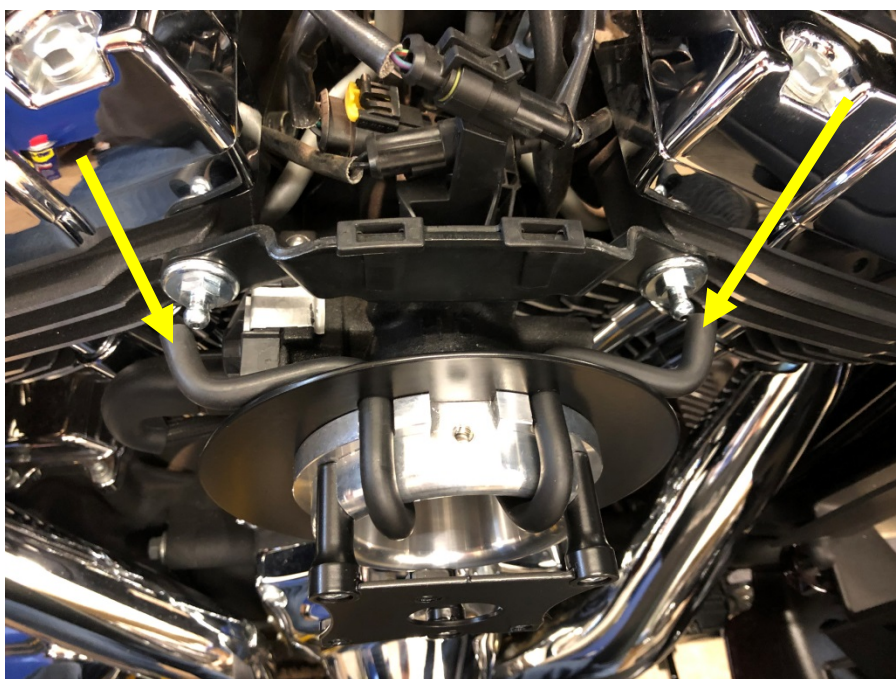


Step 1: Remove air filter cover.

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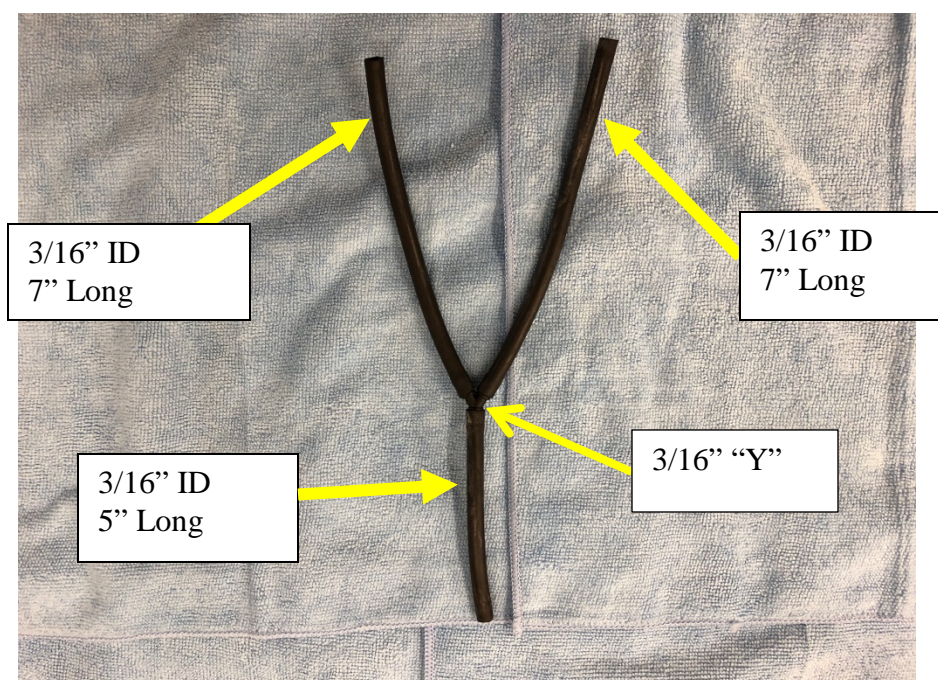


Step 2: Remove air filter.



Step 3: Remove breather vent tubes from head bolts and from air pan.

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Step 4: Using 3/16" I.D. line provided in kit cut (1) pc. 5" long, and (2) pcs. 7" long.
Connect line as shown using 3/16" "Y" provided in kit.

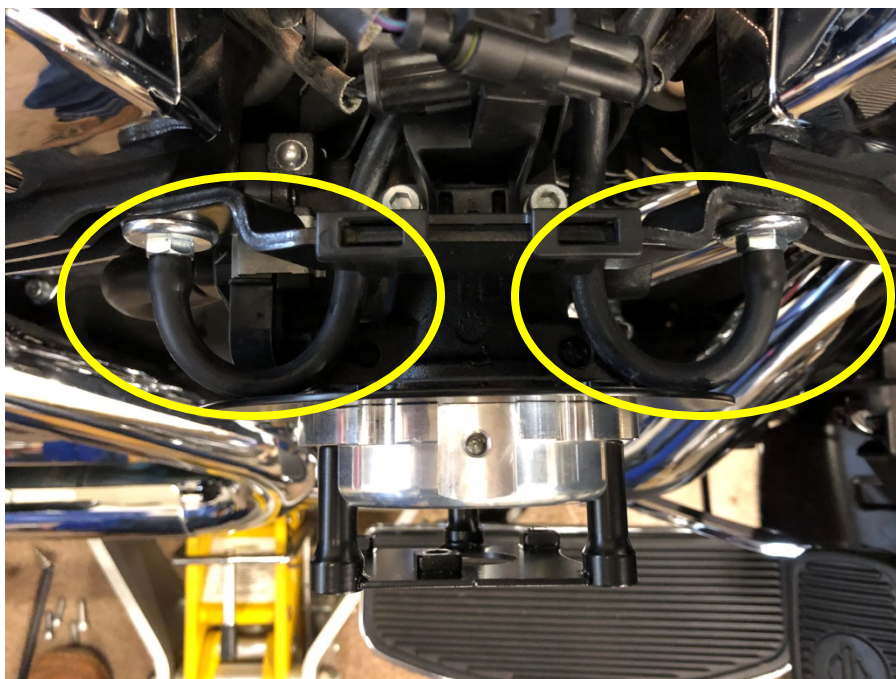
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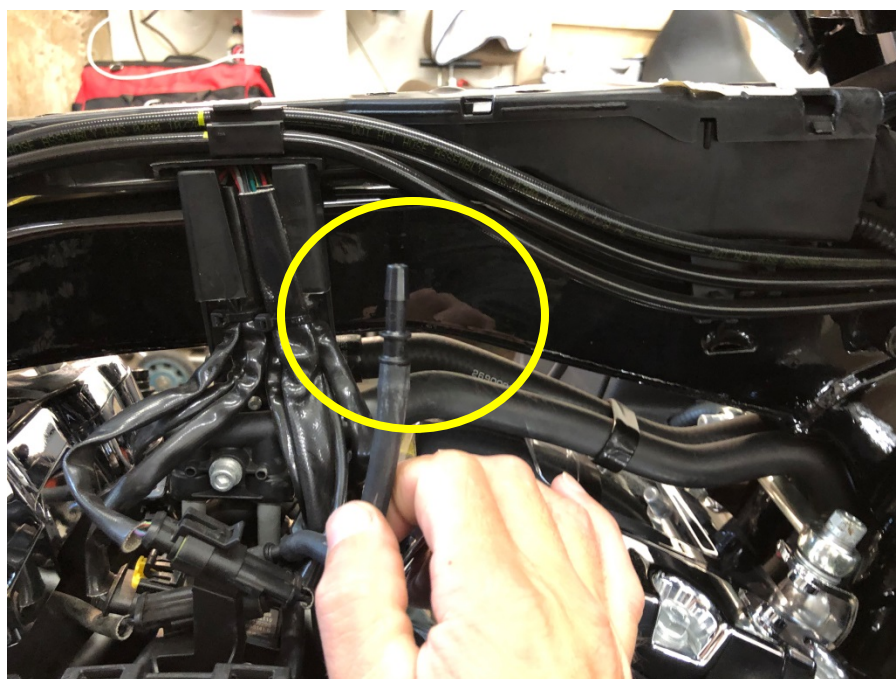
Step 5: Using lines assembled in previous step, route lines behind connectors shown and under throttle body bracket as shown.



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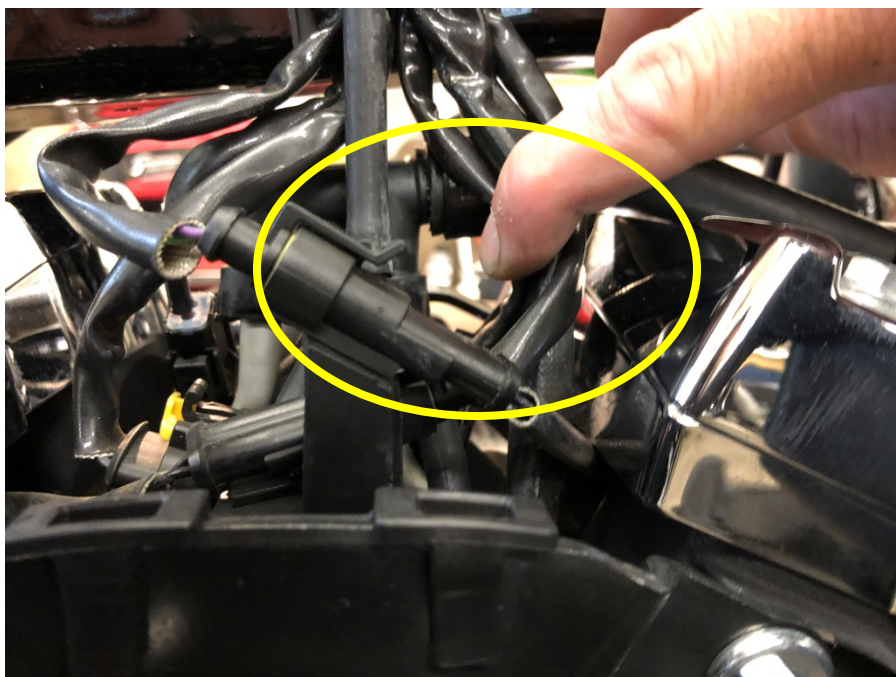


Step 6: Connect vent lines to head vent bolts.

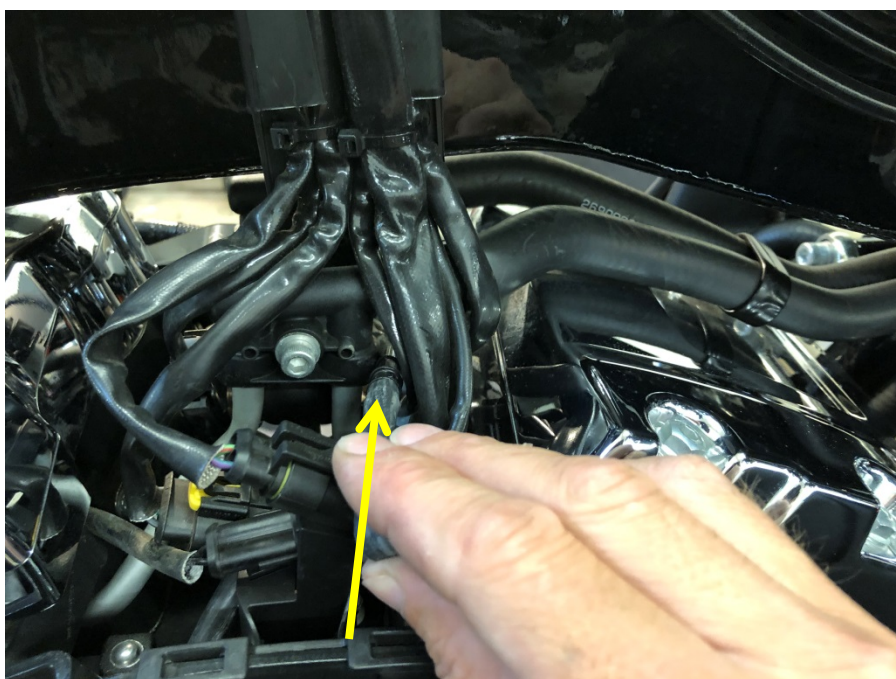


Step 7: Insert 3/16" x 1/4" coupling provided in kit into line as shown.

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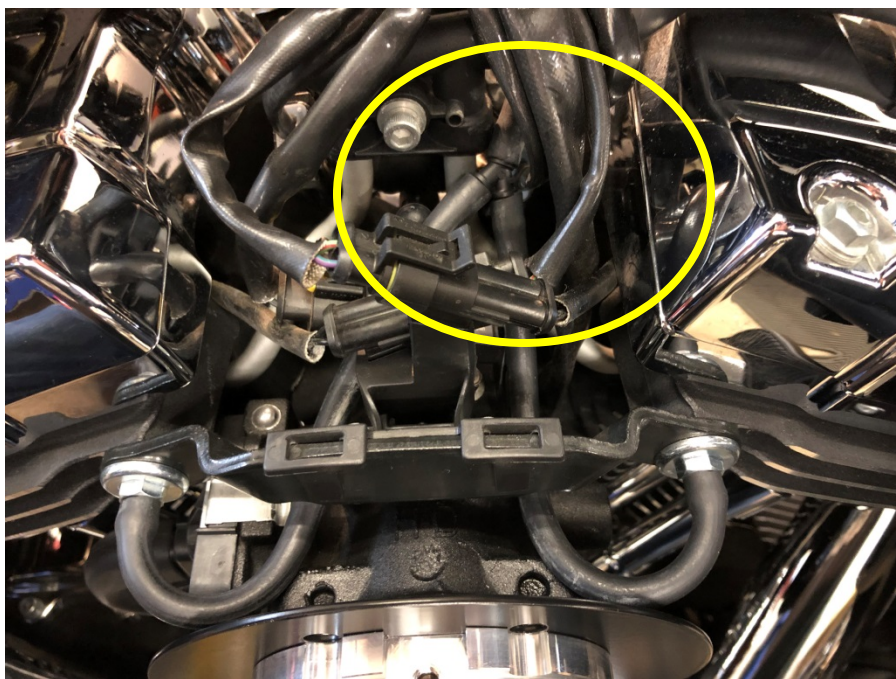
Step 8: Route line to left side of motorcycle as shown.



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(Left side of motorcycle shown)



(Right side of motorcycle shown)

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Step 9: Remove horn from motorcycle.



Step 10: Remove horn bracket from horn.

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Step 11: Using (2) 1/4-20x1/2 locking bolts provided in kit re-assemble horn bracket to horn with Air oil Separator bracket sandwiched between as shown.



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Step 12: Re-install horn to motorcycle.



Step 13: Install (2) 1/8" NPT x 1/4" hose barbs in Air Oil Separator.

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Step 14: Assemble Air Oil Separator to bracket using (2) $\frac{1}{4}$ -20 x $\frac{1}{2}$ pan head bolts provided in kit.



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10" Long 1/4" I.D.

Step 15: Using 1/4" I.D. line provided in kit cut (1) pc 10" long and install to 1/4" coupling previously routed to left side of motorcycle.

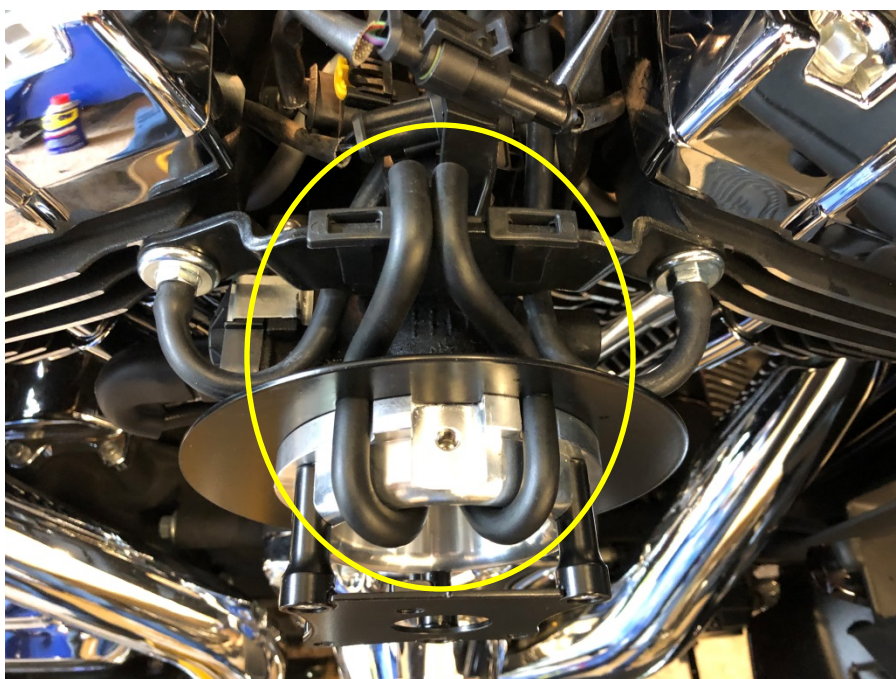


Step 16: Re-install head vent lines as shown that were removed in previous steps. You will want to apply / spray some type of lubricant on lines to make installation easier (Windex works well)

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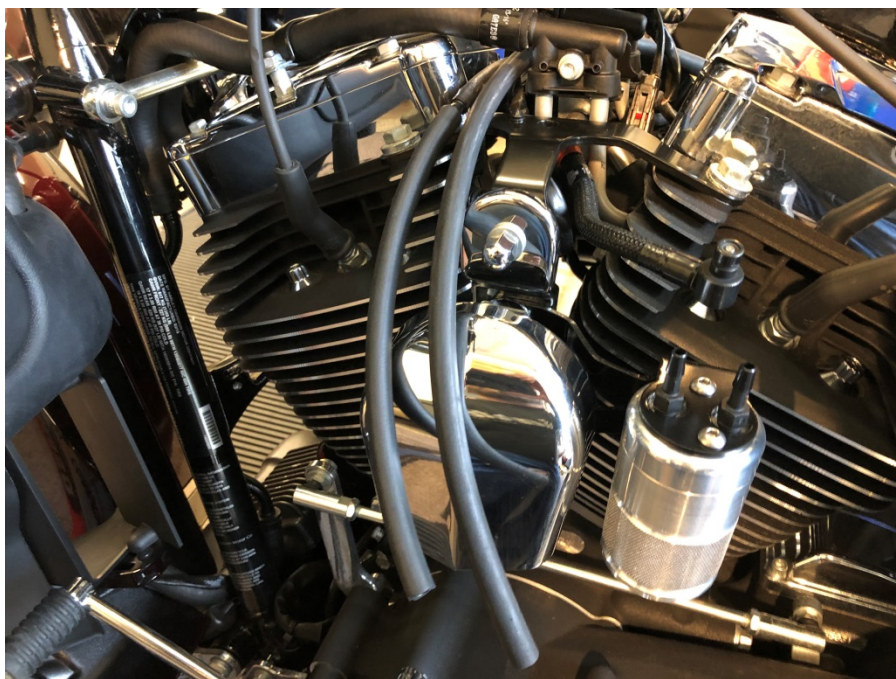


Step 17: Using 1/4" I.D. line provided in kit cut a 20" long pc and install 1/4" "Y".



Step 18: Route 20" Line under connector as shown and route over to left side of motorcycle using same routing as previous line.

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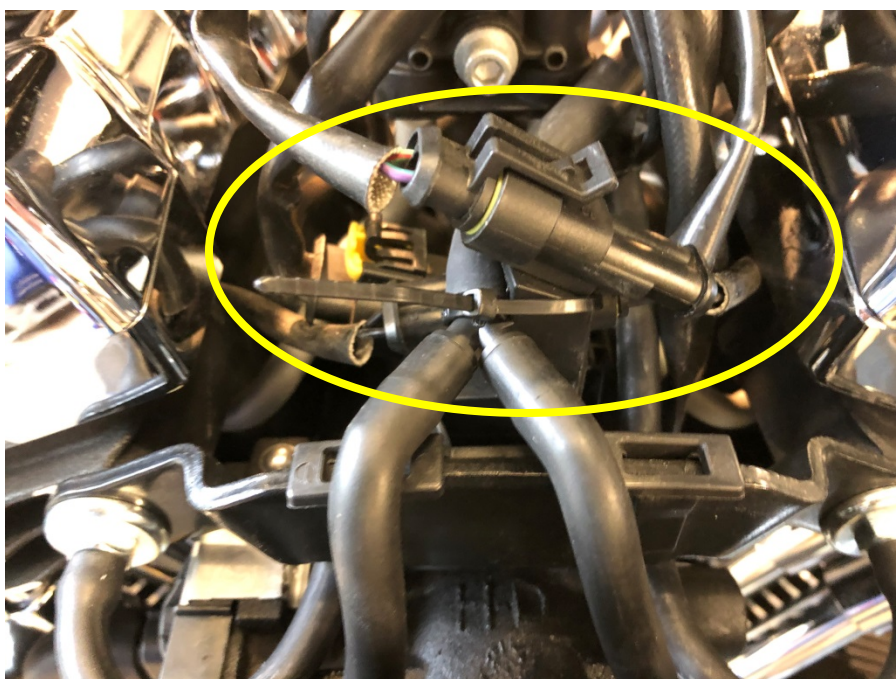
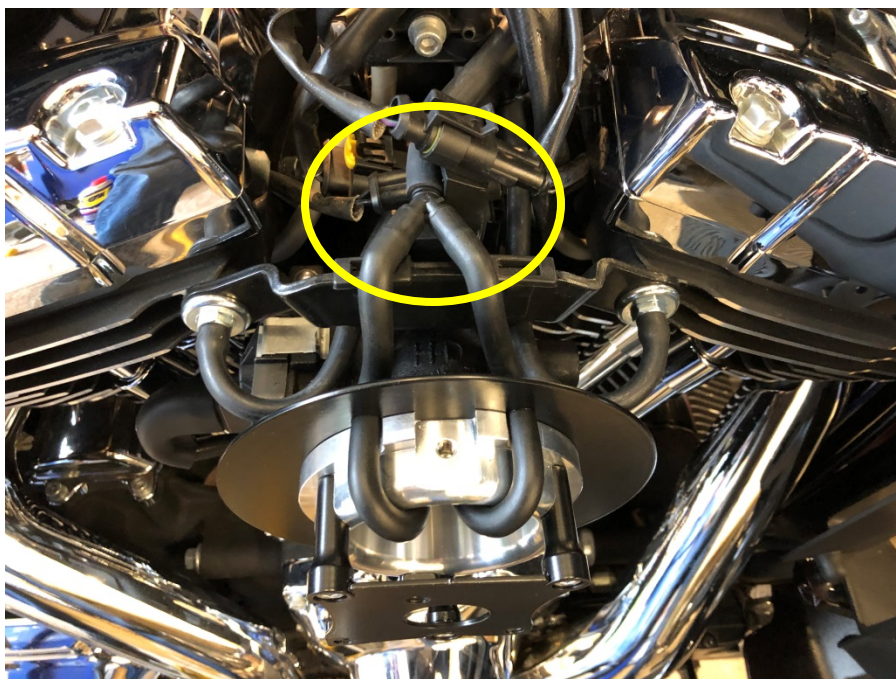


(Step 18: routing of Air Oil Separator line shown)



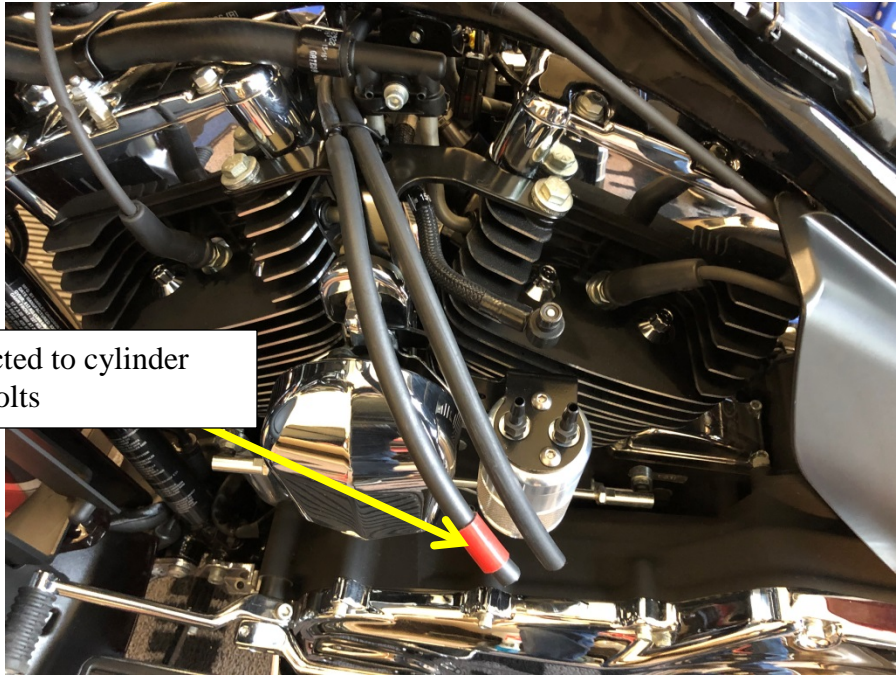
Step 19: Connect "Y" to return lines as shown.

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Step 20: Wire tie "Y" to connector bracket as shown.

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Line connected to cylinder head vent bolts

(Re-install fuel tank at this time if tank had been removed)

Step 21: Crank case vent line that connects to (2) cylinder head vent bolts (threaded into cylinder head) must be installed to forward barbed fitting on Air Oil Separator.



Step 22: Trim line as needed and install to forward barbed fitting on Air Oil Separator.

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Step 23: Trim return line as need and install to rear barbed fitting on Air Oil Separator.



Step 24: Re-install air cleaner and air cleaner cover.

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To drain Air Oil Separator unscrew bottom of Air Oil Separator

Draining of Air Oil Separator is needed; this will depend on riding conditions (i.e.) normal day to day riding check every 200 miles until a baseline is established. A good baseline is to drain the Air Oil Separator when it is about HALF full. This will vary with temperatures (cold days vs. hot days). For track usage Air Oil Separator will need to be drained after every outing.

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