



Milwaukee 8 Screaming Eagle Air Cleaner, Touring Models Only

Example shown is a 2019 Electra Glide Ultra Limited

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

Parts List

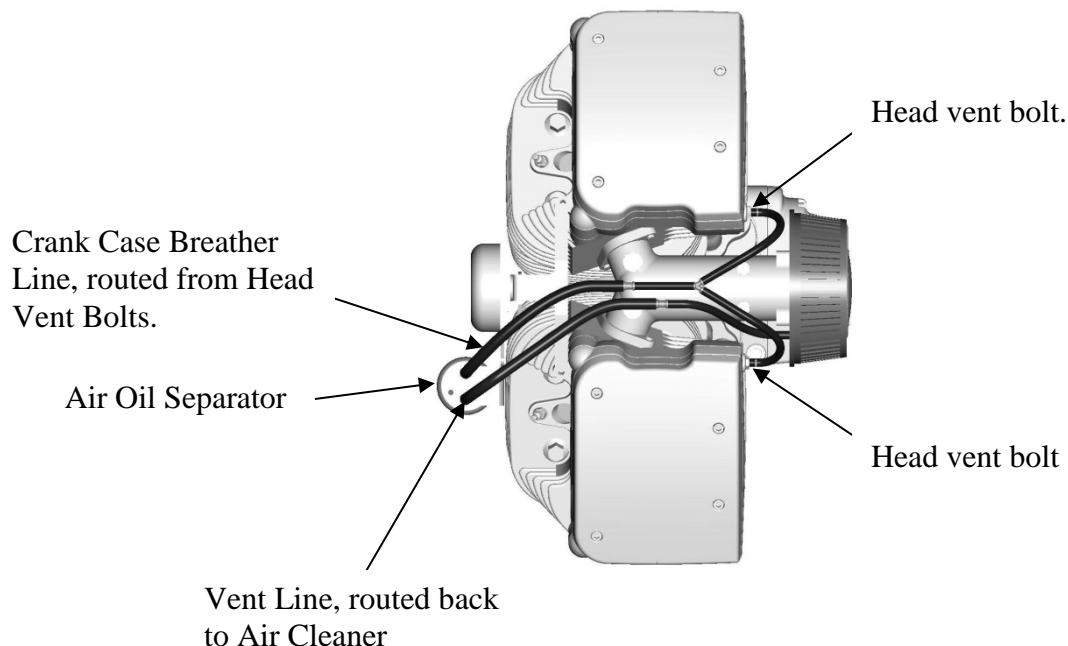
- (1) Air Oil Separator
- (1) Air Oil Separator Bracket
- (1) Length of 3/16" I.D. Hose
- (1) Length of 1/4" I.D. Hose
- (2) 1/4" Barbed x 1/8" NPT Fittings
- (2) 3/16" to 1/4" Couplings
- (1) 3/16" "Y"
- (1) 1/4" 90 Degree Fitting
- (1) 3/16" to 3/16" Coupling
- (2) 1/4-20x1/2" Pan Head Bolts
- (2) 1/4-20x1/2" Locking bolts
- (1) Marking-Drill Template

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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85723
85724
10-31-19
Rev A

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Step 1: Remove air cleaner cover and air cleaner.



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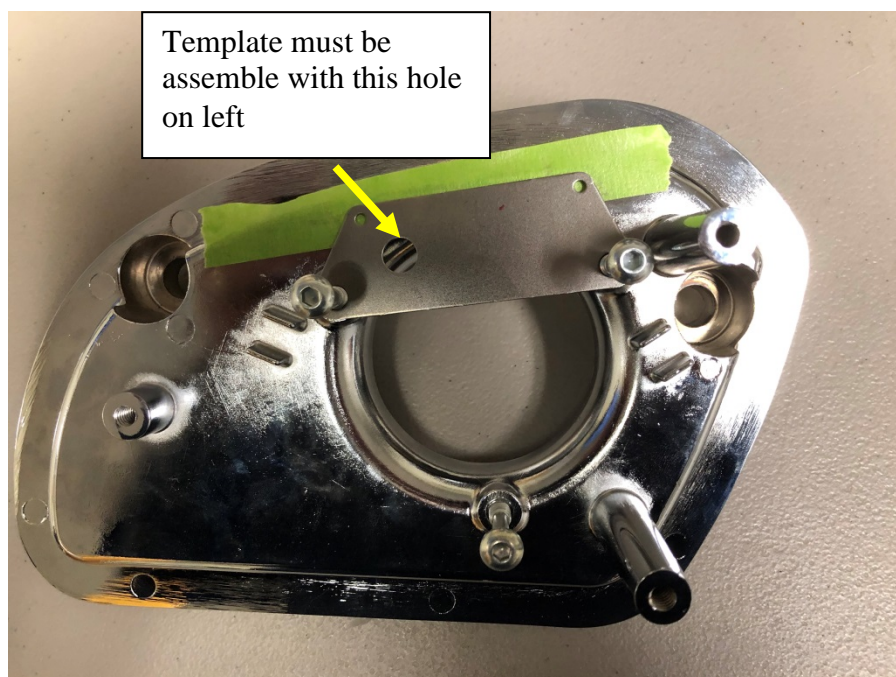


Step 2: Remove breather tubes and air pan.



Step 3: Apply masking tape to top of air pan as shown.

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Step 4: Using marking/drill template provided in kit, assemble to air pan as shown using air pan mounting bolts.



Step 5: Mark center line of holes using pencil / pen or center punch.

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Step 6: Drill .406" dia. hole on left and .359" dia. hole on right, remove masking tape and de-burr holes as needed.

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Step 7: Remove horn from motorcycle.



Step 8: Remove horn bracket from horn as shown.

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Step 9: Assemble Air Oil Separator to bracket using (2) 1/4-20x1/2" pan head bolts provided in kit. Install (2) 1/8" NPT x 1/4" hose barbs in Air Oil separator.



Step 10: Using (2) 1/4-20x1/2" locking bolts provided in kit re-assemble horn and Air Oil Separator as shown.

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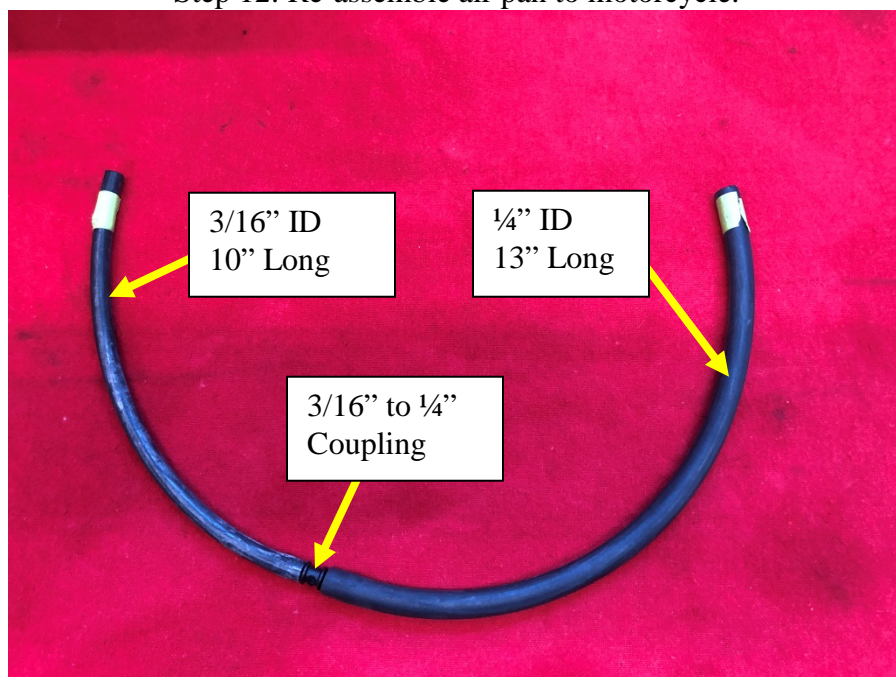


Step 11: Re-assemble horn assembly to motorcycle

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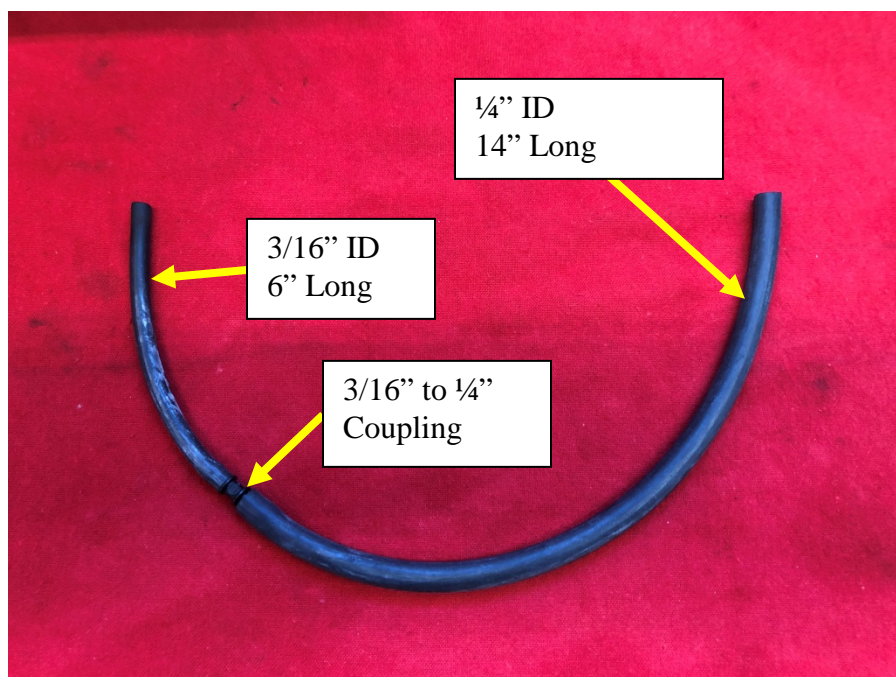


Step 12: Re-assemble air pan to motorcycle.

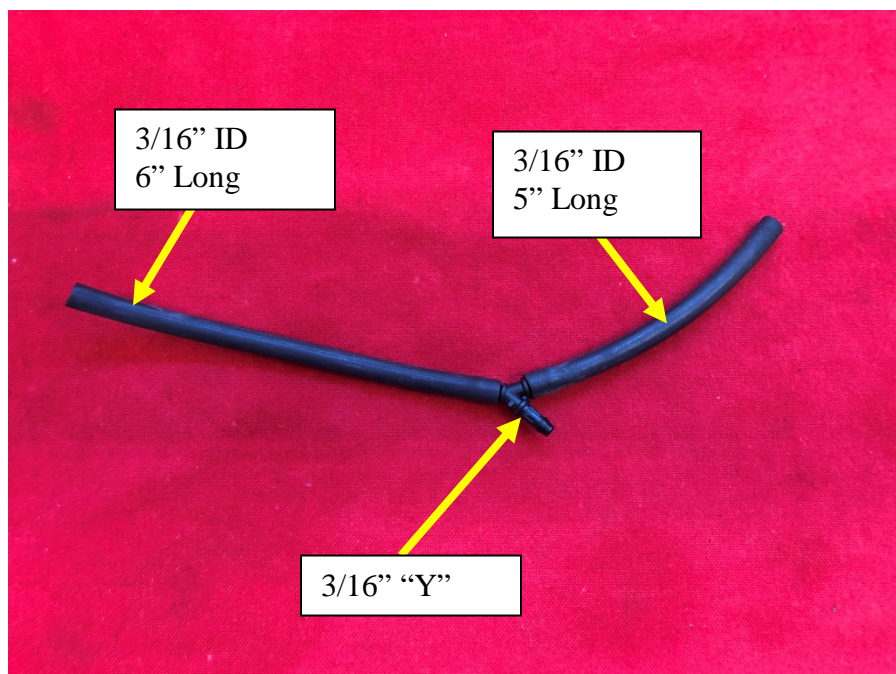


Step 13: Using 3/16" I.D. line from kit cut (1) pc 10" long. Using 1/4" I.D. line cut (1) pc 13" long and join together using 3/16" to 1/4" coupling, then apply masking tape to both ends for future identification.

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Step 14: Using 3/16" I.D. line from kit cut (1) pc 6" long. Using 1/4" I.D. line cut (1) pc 14" long and join together using 3/16"to1/4" coupling.



Step 15: Using 3/16" I.D. line cut (1) pc 6" long and (1) pc 5" long. Connect lines using 3/16" "Y".

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Step 16: Route ¼" end of line with masking tape from right side of motorcycle to left side as shown.



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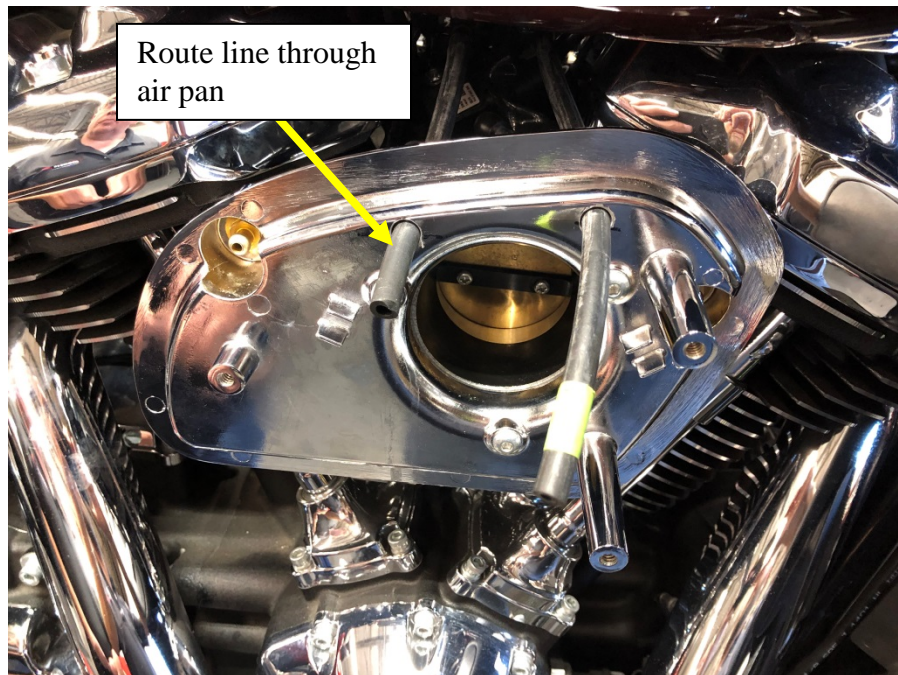


1st line routed in Step 16,
route through air pan.

Step 17: Route first line through hole drilled in air pan as shown. Route second line created in step 14 from right side of motorcycle to left side.



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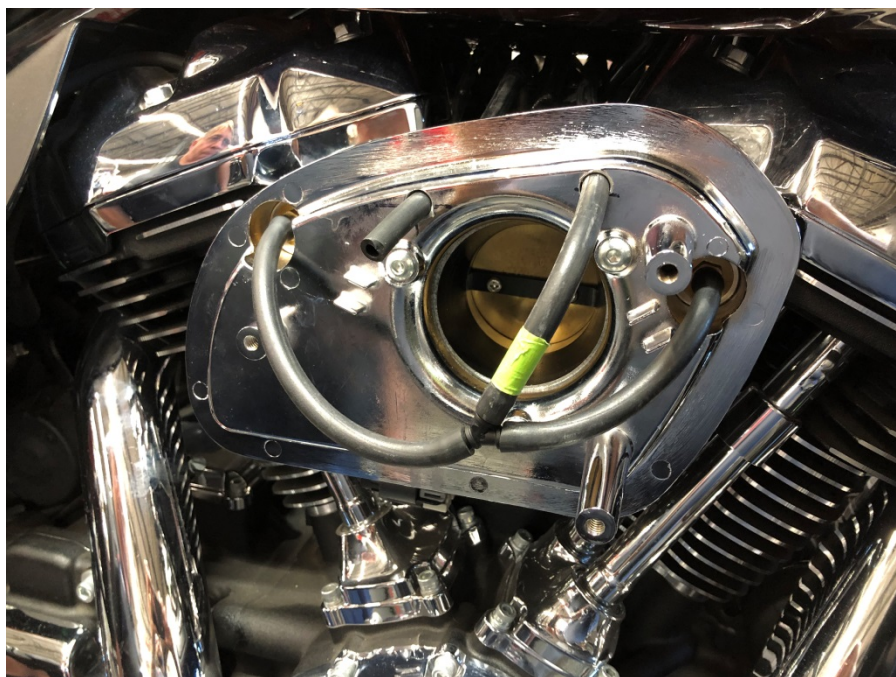
Route line through
air pan

Step 18: Route line through air pan as shown.

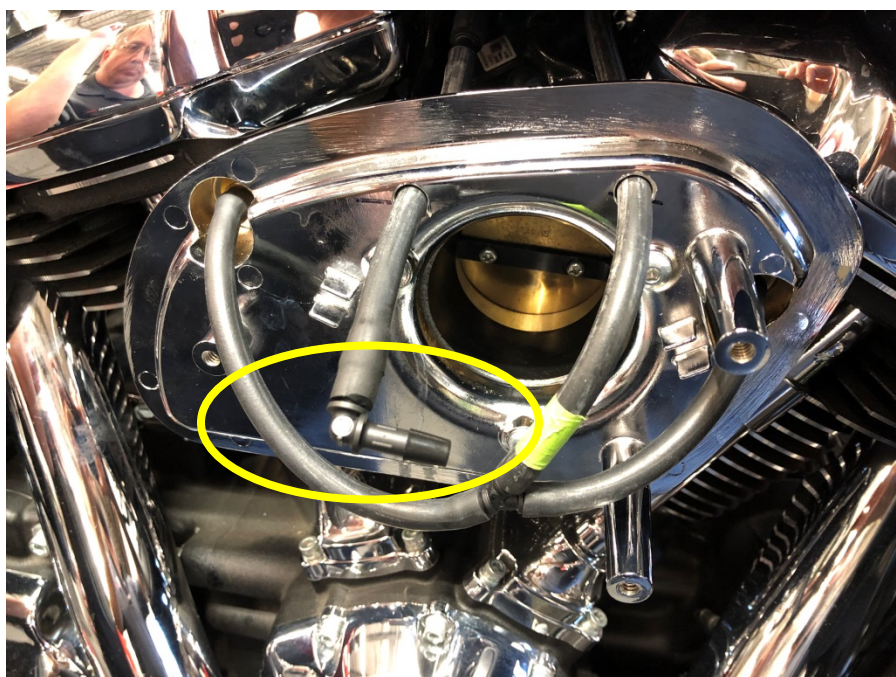


Step 19: Connect line assembled in step 15 to head vent bolts.

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Step 20: Connect "Y" to line with masking tape identifier.



Step 21: Using 1/4" 90 degree barb insert into 3/16" line as shown.

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Step 22: Push line into air pan as far as possible and point open end to throttle body opening.



Step 23: Re-install air filter.

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Step 24: Re-install air filter cover.



Step 25: Install breather line with masking tape to forward barbed fitting and install return line to rear barbed fitting.

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To drain Air Oil Separator unscrew bottom of Air Oil Separator

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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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Milwaukee 8 Stock Air Cleaner, Touring models only

Example shown is a 2019 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
- (2) 3/16" to 1/4" Couplings
- (1) 3/16" "Y"
- (1) 1/4" 90 Degree Fitting
- (1) 3/16" to 3/16" Coupling
- (2) 1/4-20x1/2" Pan Head Bolts
- (2) 1/4-20x1/2" Locking bolts
- (1) Marking-Drill Template

Torque Values

Head Vent Bolts 22-24 ft-lbs

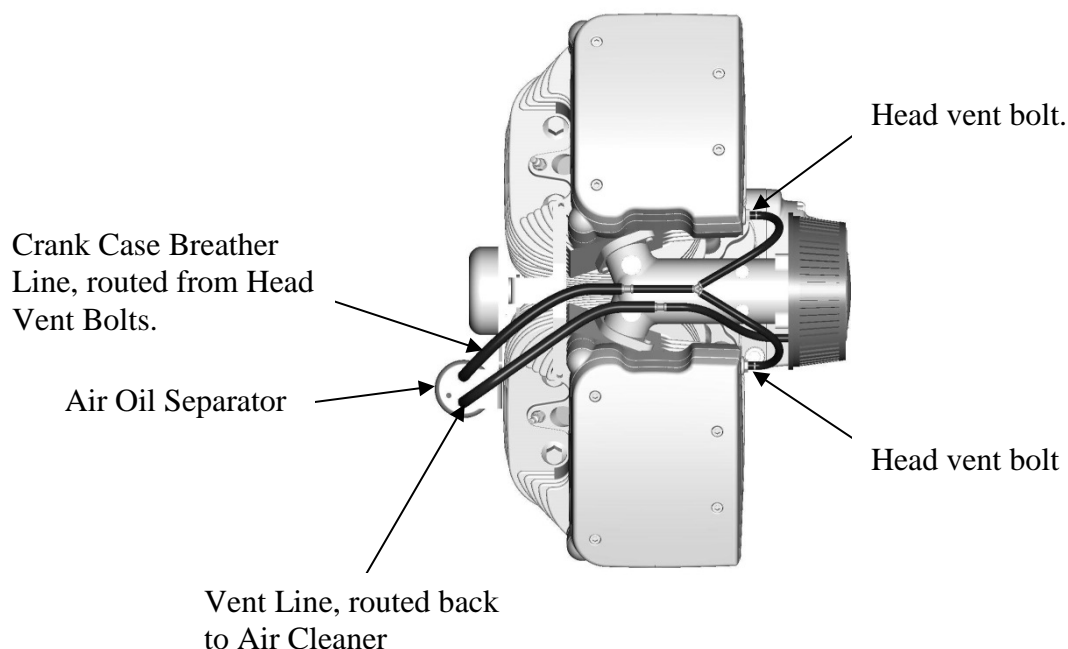
Air Filter Bolts 108-132 in-lbs

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.



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Step 1: Remove air cleaner cover and air cleaner.



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Step 2: Remove breather lines from air cleaner and set aside for future steps.



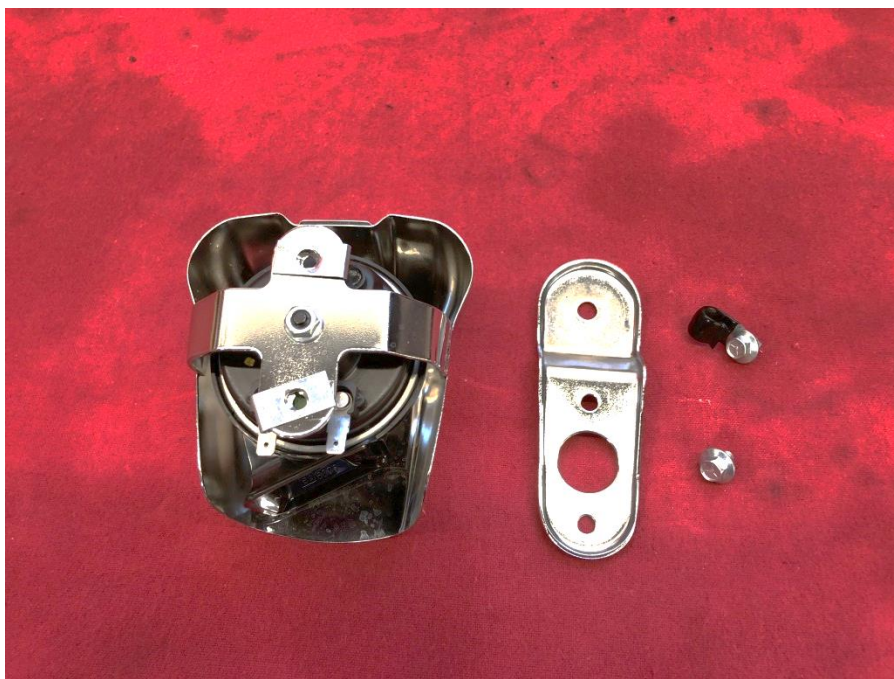
Step 3: Remove air pan.

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Step 4: Remove horn from motorcycle.

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Step 5: Remove horn bracket from horn as shown.



Step 6: Assemble Air oil separator to bracket using (2) $\frac{1}{4}$ -20x.1/2 pan head bolts provided in kit, Install (2) 1/8" NPT x $\frac{1}{4}$ " hose barbs in Air Oil Separator.

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Step 7: Using (2) 1/4-20x1/2" locking bolts provided in kit re-assemble horn and Air Oil Separator as shown.



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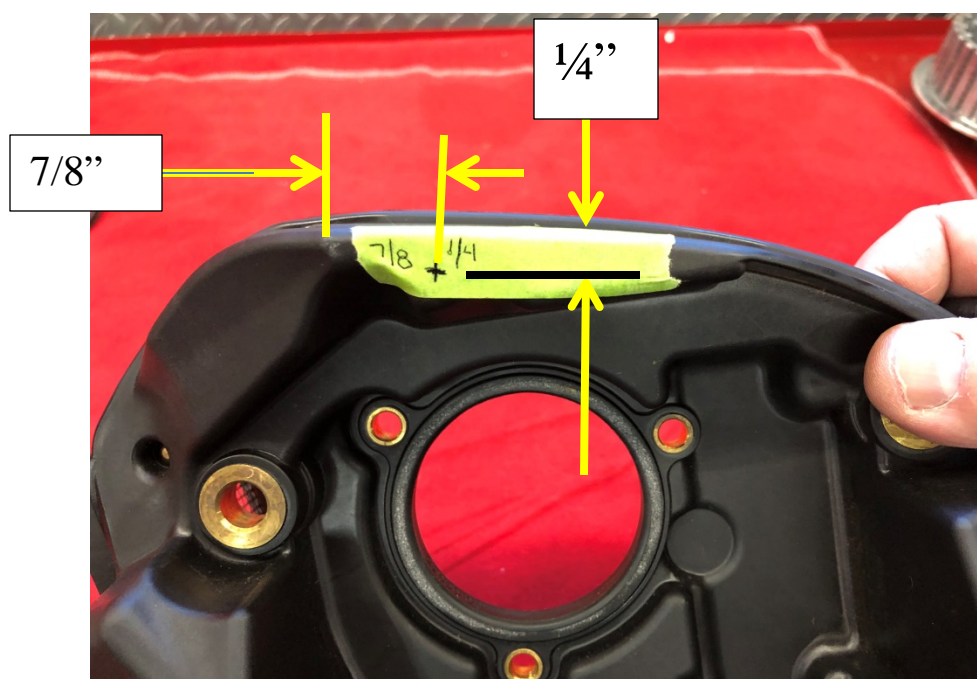


Step 8: Re-assemble horn assembly to motorcycle.



Step 9: Apply masking tape as shown to back side of air pan.

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Step 10: From edges shown measure over 7/8" and down a 1/4", mark center lines.

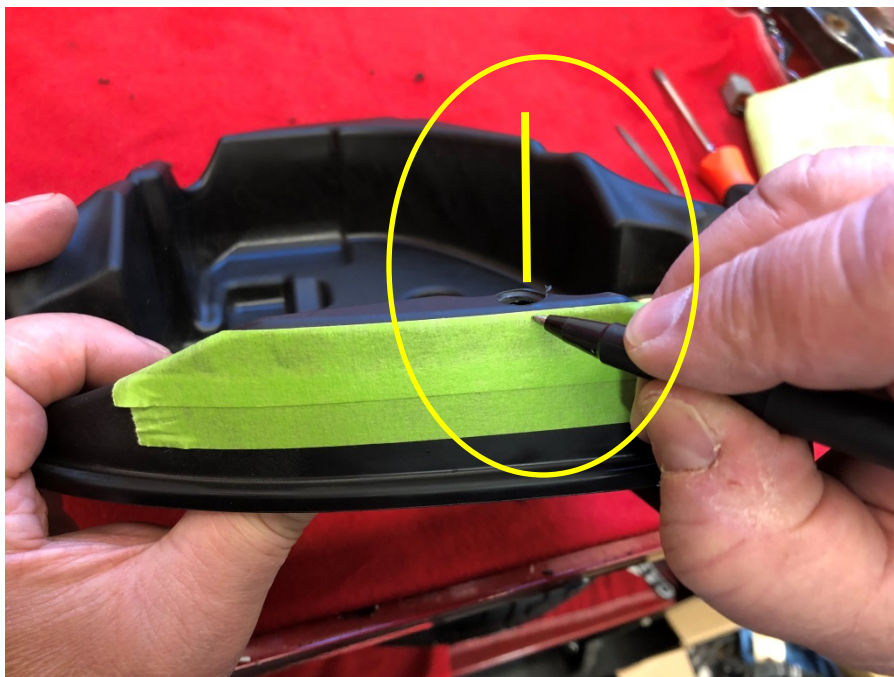


Step 11: Drill centering hole as needed using 1/8" drill bit.

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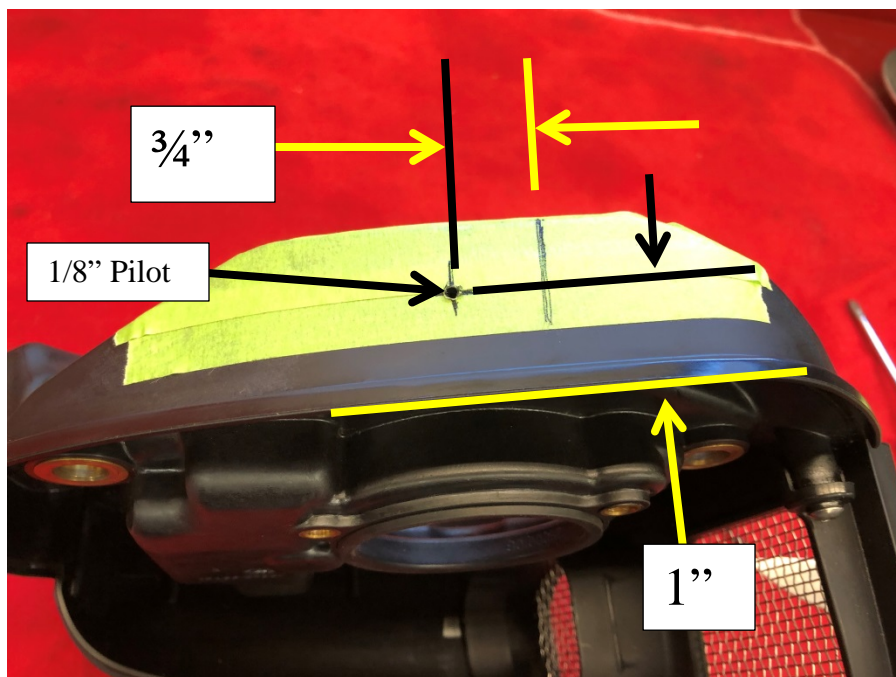
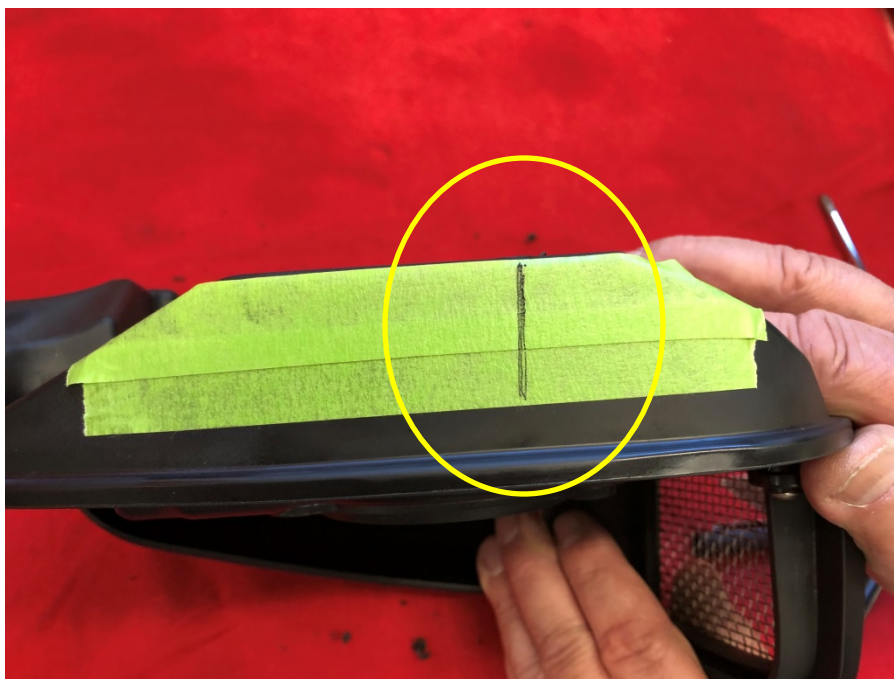


Step 12: Open up 1/8" pilot hole previously drilled with 3/8" drill bit.



Step 13: Apply masking tape to top side off air pan as shown and using center line of hole previously drill mark a reference line as shown.

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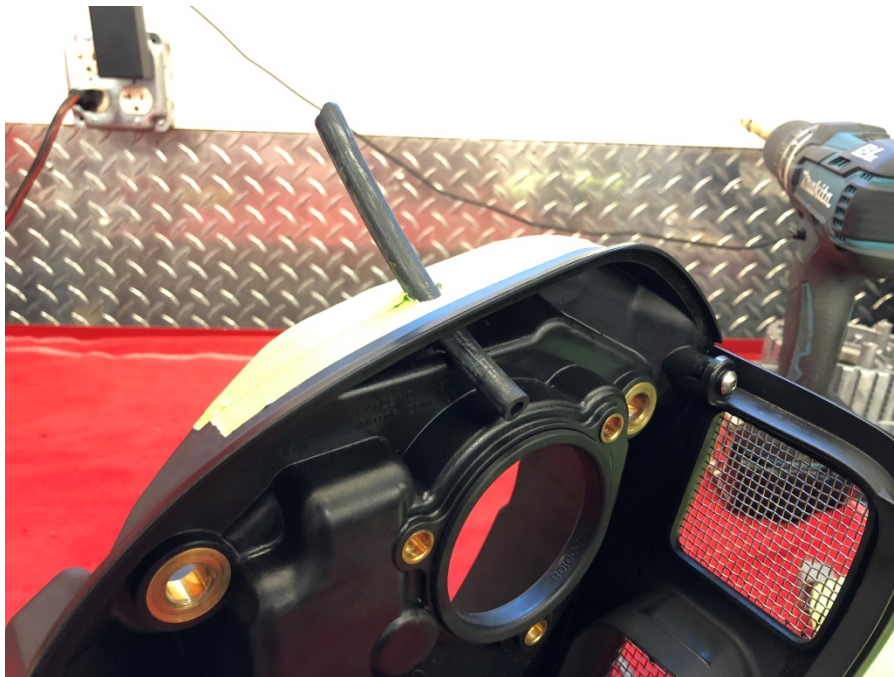


Step 14: Measuring over $\frac{3}{4}$ " from reference line and 1" up from inside lip mark center lines, then drill $\frac{1}{8}$ " pilot hole.

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Step 15: Enlarge 1/8" pilot hole previously drilled with 3/8" drill bit, then walk hole on angle as shown.

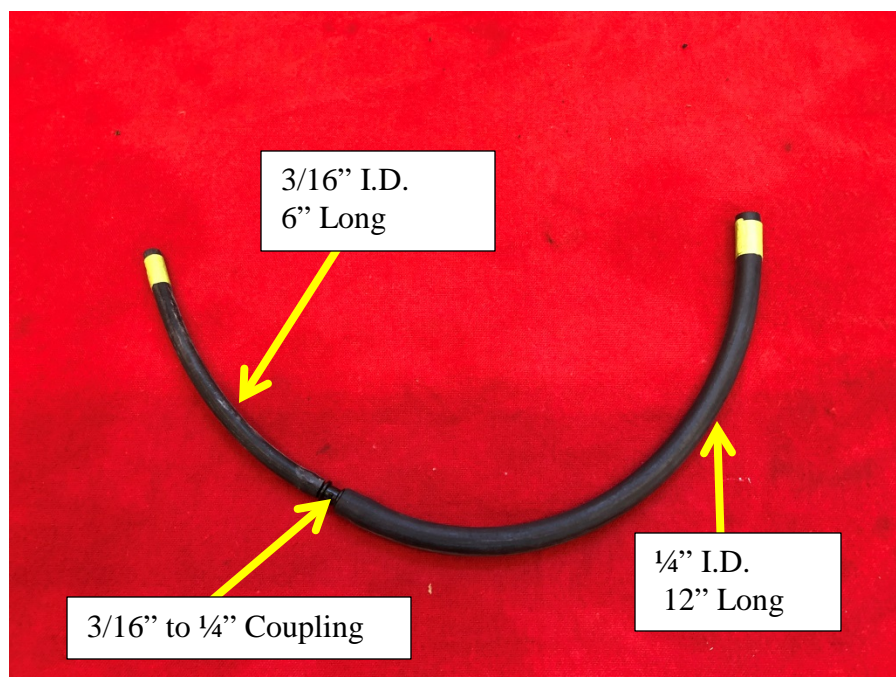


Step 16: Be sure that a 3/16 I.D. hose can pass through hole as shown.

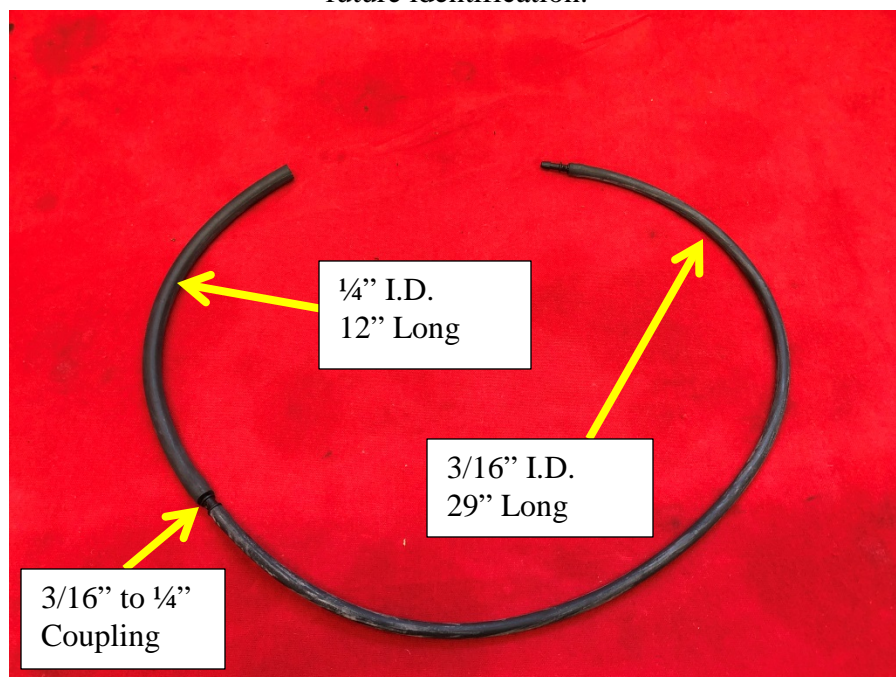
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Step 17: Using 3/16" I.D. line cut (1) pc 6" long. Using 1/4" I.D. line cut (1) pc 12" long and join together using 3/16" to 1/4" coupling. Then apply masking tape to both ends for future identification.



Step 18: Using 1/4" I.D. line cut (1) pc 12" long. Using 3/16" I.D. line cut (1) pc 29" long and join together using 3/16" to 1/4" coupling.

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Step 19: Route ¼" end of line with masking tape identifier from right side of motorcycle to left side as shown.



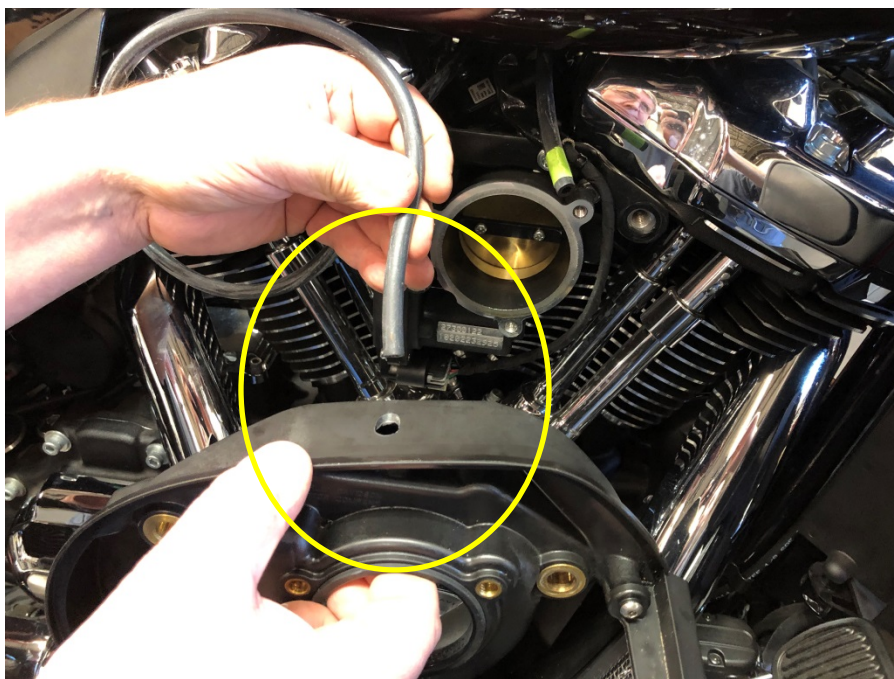
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Step 20: Route 1/4" I.D. end of second line from right to left side of motorcycle as shown.



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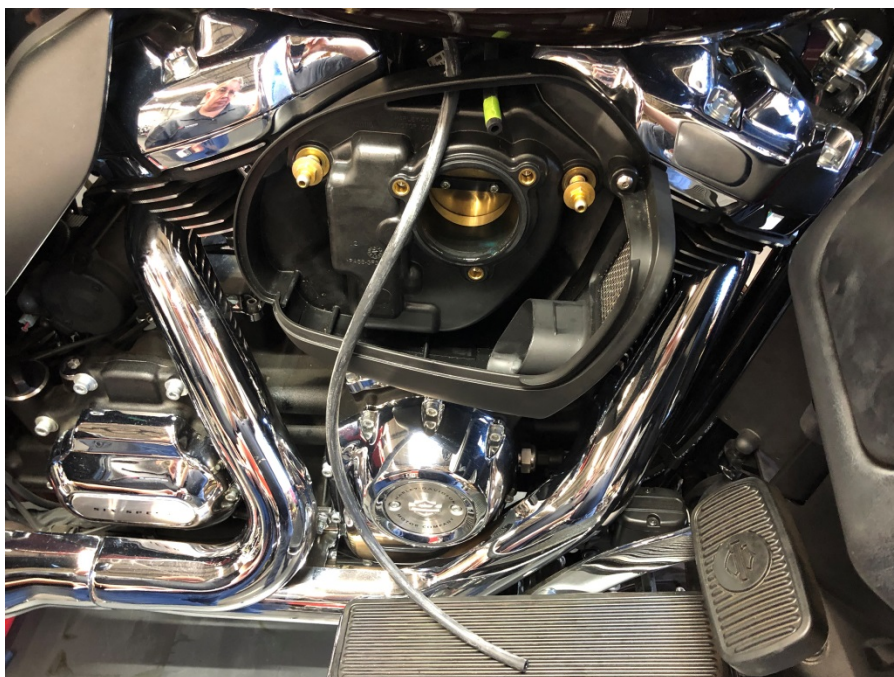


Step 21: Insert line without masking tape through top hole in air pan.



Step 22: Insert line with masking tape through back hole in air pan.

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Step 23: Install air pan with head vent bolts and adjust lines as needed before tightening.



Step 24: Remove air cleaner line from breather assembly previously removed from motorcycle.

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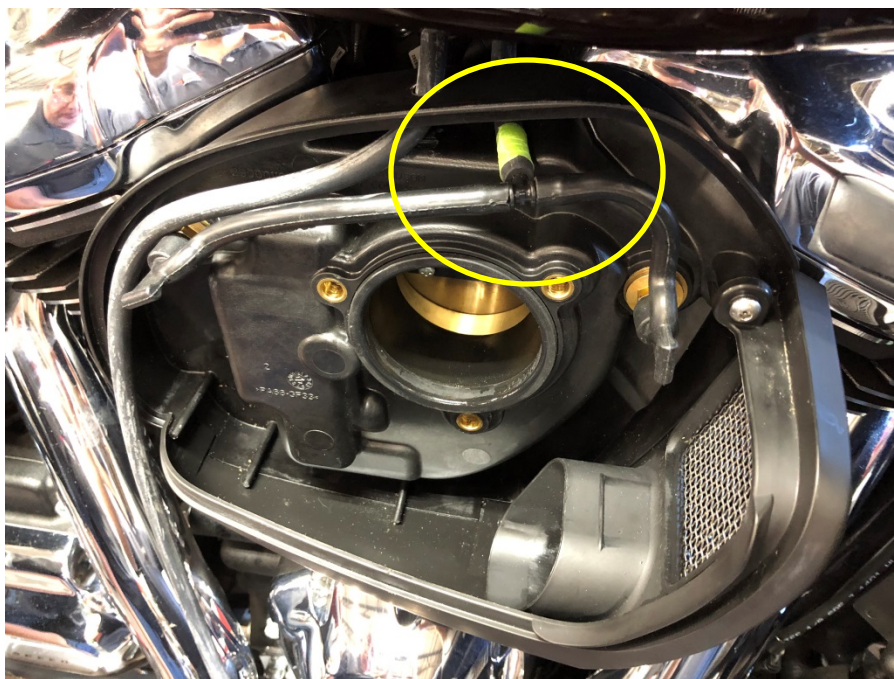


Step 25: Turn “T” as shown so that “T” is facing upward.



Step 26: Re-install breather tube assembly to head vent bolts.

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Step 27: Connect Air Oil Separator breather line (line with masking tape) to breather tube assembly.



Step 28: Install 3/16" to 3/16" coupling in return line.

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Step 29: Route return line as shown in air pan ensuring no interference with air filter when installed.



Step 30: Install air cleaner line that was removed in step 24 into back of air cleaner. Connect air cleaner line to return line with coupling.

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Step 31: Re-install air cleaner cover.



Step 32: Install breather line with masking tape to forward barbed fitting and install return line to rear barbed fitting.

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To drain Air Oil Separator unscrew bottom of Air Oil Separator

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