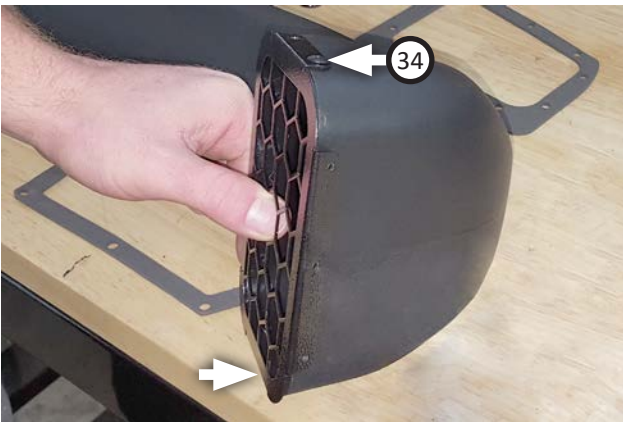
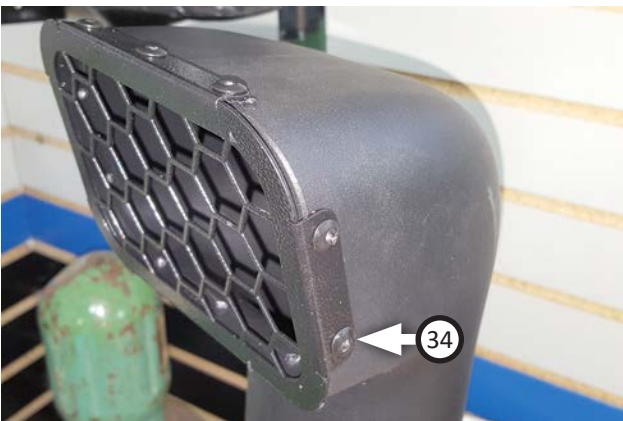


12. Place **snorkel intake grate (7)** flush against face of **molded snorkel tube (4)** then drill a hole into each side using grid holes as a guide. Deburr and blow debris off of parts.



13. Install (x2) **blind rivets (34)** into holes to secure intake grate to snorkel tube, then drill remaining (x8) holes.



14. Deburr and blow off components then install remaining (x8) **blind rivets (34)** securing intake grate to snorkel tube.



NOTE: Hold parts together with (x2) screws, then install remaining screws.

15. Connect airbox and **snorkel gasket (11)** to snorkel tube with (x10 ea.) **screws (31)**, **lock washers (32)** and **flat washers (33)**.



16. Insert **grommet (28)** into **intake tube (3)**. If necessary, moisten grommet with soapy water to ease install.

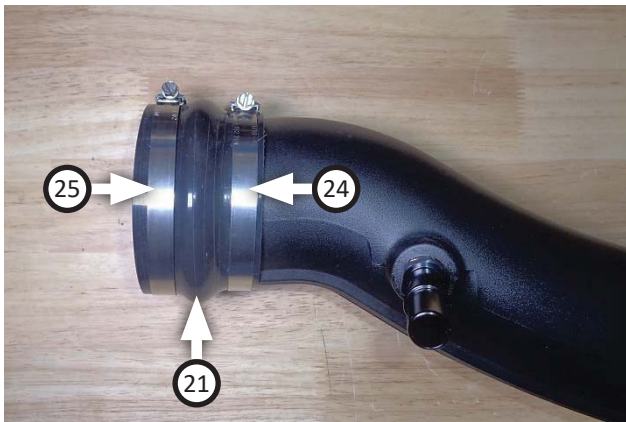


17. Carefully push air temp sensor into grommet, orienting tab toward tube's filter end.

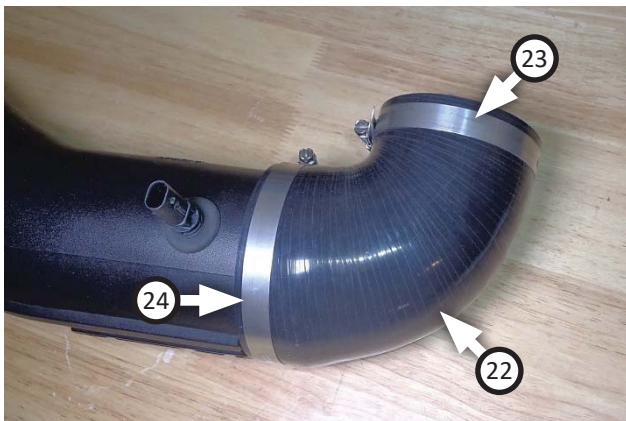
NOTE: The sensor boss does not sit flush against grommet; there will be a slight gap.



18. Apply 2 wraps of PTFE tape to **quick connect fitting (29)** threads then install it into intake tube.

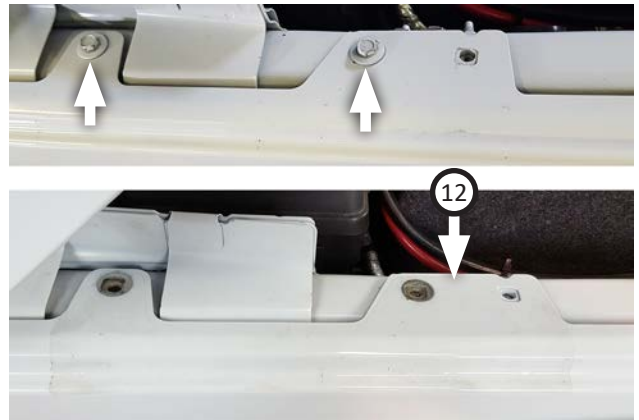


19. Place **#56 screw clamp (24)** onto small end of **transition coupler (21)** and connect it to filter end of intake tube. Slip **#64 screw clamp (25)** onto its other end. Do not tighten clamps at this time.

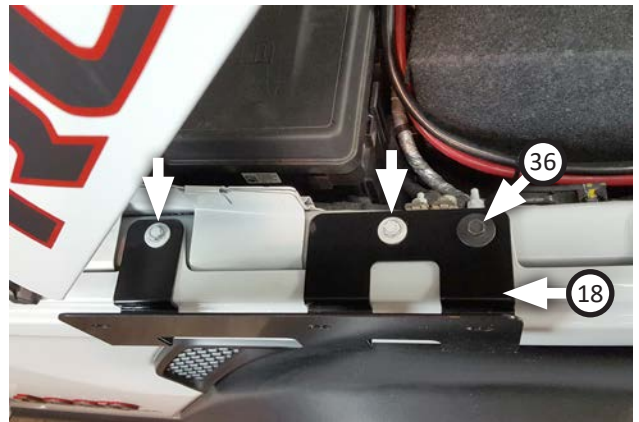


20. Fit **#56 screw clamp (24)** onto large end of **95° coupler (22)** then connect it to throttle body end of intake tube. Fit **#52 screw clamp (23)** onto other coupler end. Do not tighten clamps at this time.

PREPARE VEHICLE FOR SNORKEL INTAKE:



21. Remove bolts (x2) from fender beside fuse box. Then align **hood gasket (12)** with bolt holes (x3) on fender and press it on, working out air bubbles.



22. Place **bracket 2 (18)** over hood gasket, then using (x2) bolts (from previous step) and provided **bolt (36)**, fasten bracket and gasket to vehicle frame.



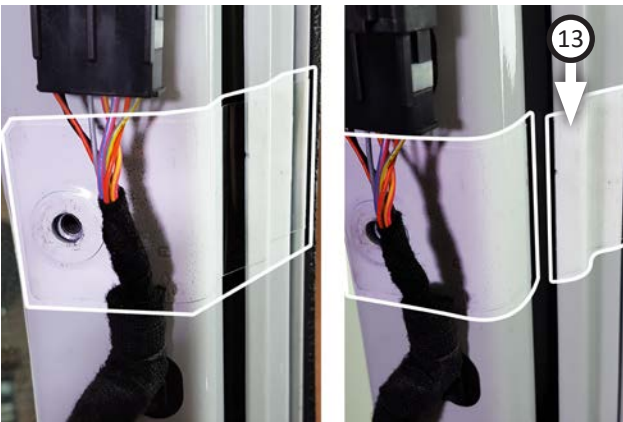
23. Release cover from base of A pillar then remove bolt covers from passenger grab handle on A pillar.



24. Remove bolts (x2) securing grab handle to A pillar, and set parts aside for later use.



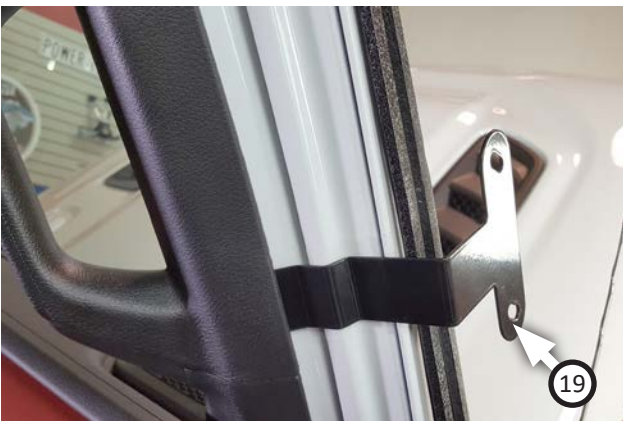
27. Carefully close passenger door, align **door gasket (14)** on outside so it protects door from rubbing against bracket 3 then apply it to front/inside.



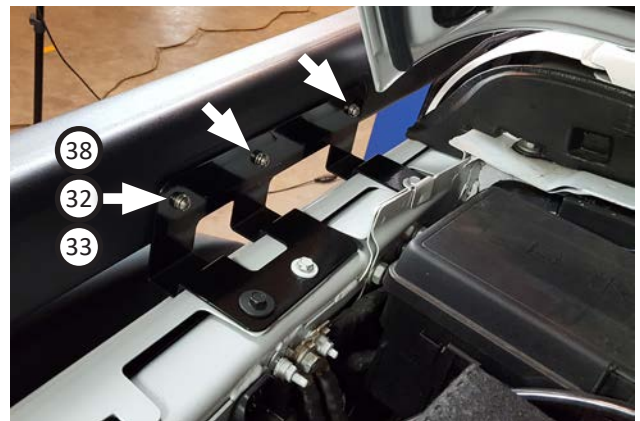
25. Place **A pillar gasket (13)** around A pillar and window frame, aligned with bottom grab handle hole. Slit gasket between A pillar and window then press it on fully.



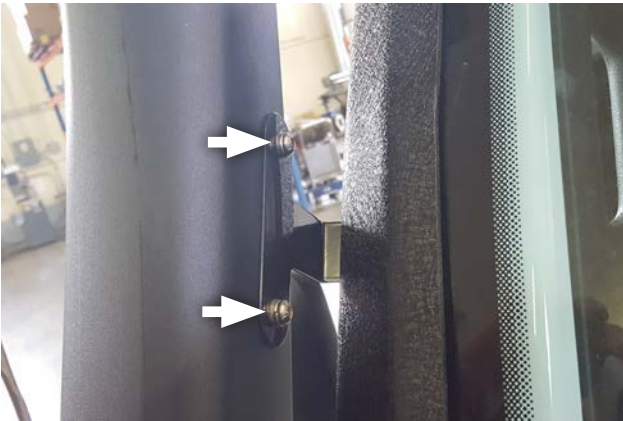
28. Place assembled airbox snorkel unit onto vehicle. Align air box into factory rubber grommets so it sets down in place.



26. Place **bracket 3 (19)** over gasket and reinstall all grab handle components (removed step 23).



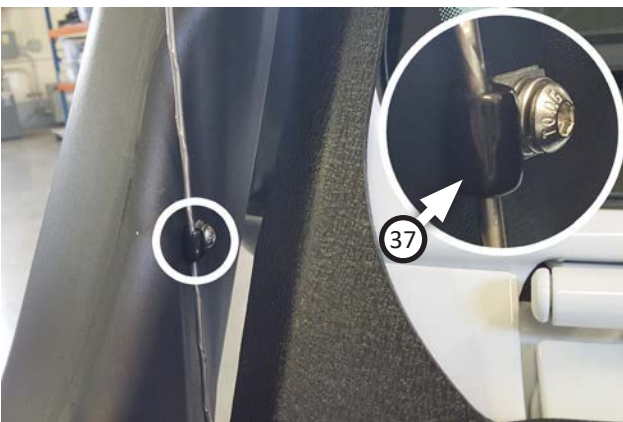
29. Secure snorkel to bracket 2 by inserting (x3 ea.) **screws (38)**, **lock washers (32)** and **flat washers (33)**. Leave screws finger tight for now.



30. Secure bracket 3 to snorkel tube using (x2 ea.) screws (38), lock washers (32) and flat washers (33).



33. Connect PCV line to quick connect fitting, then make sure all connections are secure.



31. Place loom clamp (37) onto antennae, pinch it closed then secure it to snorkel using screw (38), lock washer (32) and flat washer (33).



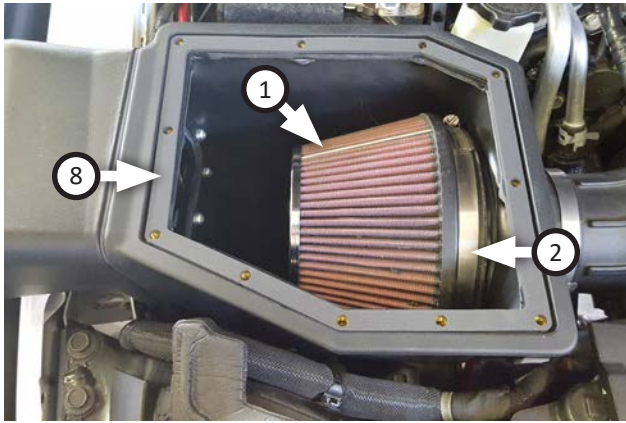
34. Connect air temp sensor extension harness (35) to vehicle's temp sensor plug. Route lead under coupler, connect other end to air temp sensor, then make sure all connections are secure.



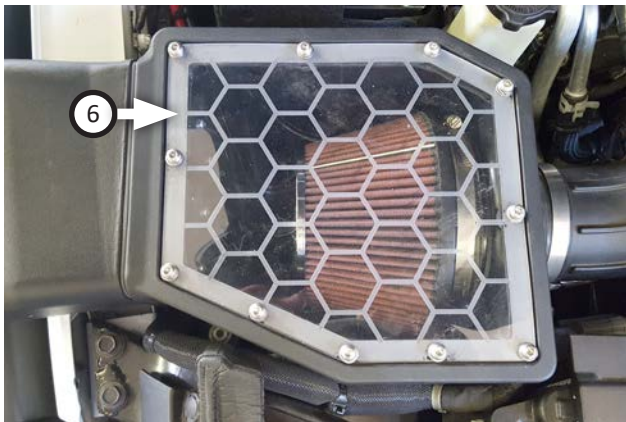
32. Set assembled intake tube into place in engine compartment and connect couplers to airbox and throttle body. Center intake tube between couplers before tightening all clamps.



35. Use zip ties to secure temp sensor lead to nearby wiring or plumbing. Tighten all fasteners in bracket 2, 3 and snorkel completely.



36. Place air filter (1) into air box, securing it over air filter adapter with #104 screw clamp (2). Then place air box lid gasket (8) onto air box.



37. Place air box cover (6) onto air box using (x11 ea.) screws (31), lock washers (32) and flat washers (33). Adjust and secure all installed components.

MODIFY HOOD FOR SNORKEL FITMENT:



38. Carefully cut out paper hood cut template from kit. Be as precise as possible.



39. Open hood and set template onto it, aligning rear and side edges. Secure bottom edge with tape.



40. Fold template down off of hood then tape cutout as shown.



41. Fold template back onto hood and after re-aligning it, tape it down. Tape front portion down one piece at a time as shown.



42. Lower hood onto snorkel tube and make sure template hood cutout is located correctly.



44. Make a cut well within marks through both layers of hood, then lower your hood so you can inspect location of cutout. That way you can adjust it front or rearward so it fits better.



43. Mark hood (tape) around edge of template cutout then remove template from vehicle.



45. Make another cut closer to marks on cutout. If you have to move your cutout one way or another, this is the best time to do it.

HOOD MODIFICATION CUTTING PROCEDURE:

As you cut your hood, you will notice it has two layers; make sure that you keep your saw perpendicular to your cutting plane so that it won't cut too big of an outline in bottom layer.

Making cuts little by little will create a more precise edge fitted exactly to your snorkel.

Precision requires time and attention, allow yourself both to avoid being too aggressive with your cuts.



46. Make another cut up to your marks through top layer. Use a file to smooth your cutout so you can more accurately compare its location to tube.



47. Cut bottom hood layer using top layer cutout as a guide. Keep your blade perpendicular to keep your cutout from getting too enlarged, particularly on hood corners.



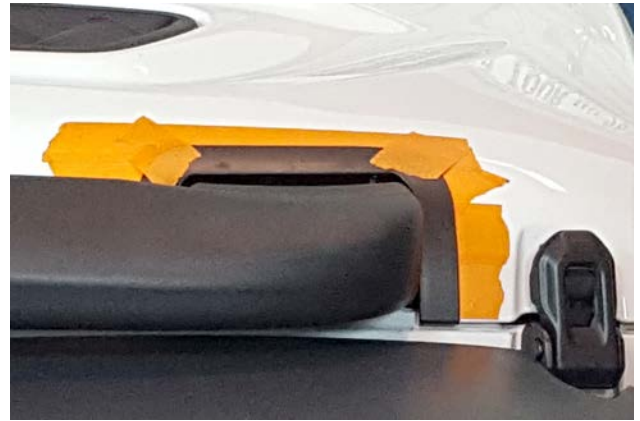
48. Once hood is cutout to marks, lower hood and inspect it against snorkel tube. Use **hood adapter gasket (10)** to mark where cutout should be aligned to center tube.



49. This is your last chance to adjust position of your intake system. Gauge your parts to ensure there are no kinks or odd angles and if necessary, you can loosen brackets to adjust them slightly.



50. At this point, it may be better to work with a file to prevent cutting out too much material. The intent is to make adapter gasket fit your hood top layer as closely as possible, while centering it to snorkel tube (sides first then top).



51. Once you are satisfied with cutout and gasket fitment, close hood and tape gasket into place.



52. Open hood and set **inner hood gasket (15)** into bottom layer of cutout, then mark points that need additional cutting.



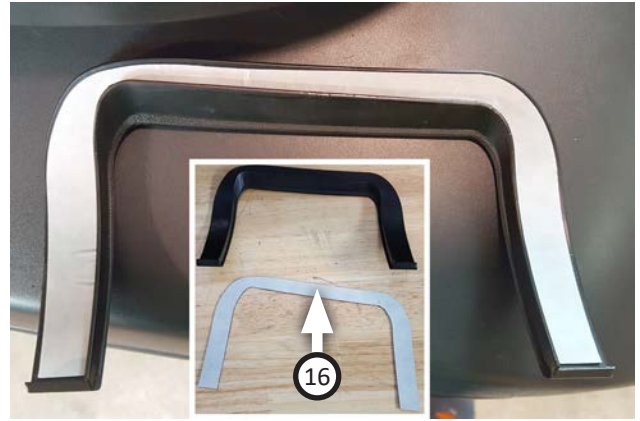
53. Cut out marked inner hood as necessary. Work slowly and carefully, checking cutout often until gasket fits exactly in place. Again, as you get close to fitment, work with a file to avoid excessive cuts.



54. Once complete, your gaskets should fit together snugly without sliding around in cutout as shown.



55. Remove gaskets and tape from hood. Blow all debris off vehicle and engine then wipe cutout with microfibre cloth, to remove any residue.



NOTE: Mounting tape has very strong adhesive which only allows for one placement attempt. Work carefully.

56. Mounting tape (16) and hood adapter gasket are assymetrical. Align them then peel backing off of mounting tape and carefully stick it to gasket.



57. Peel remaining paper off of mounting tape, open hood partially and install gasket into cutout, hooking bottom portion on first then carefully pressing it down.



NOTE: Be careful not to drill through top layer of hood as you drill through inner gasket and hood.

58. Open hood fully, then set inner hood gasket into place. Drill (x4) holes through inner gasket and inner hood then deburr parts and blow off parts.



59. Fasten inner hood gasket to hood using (x4) **blind rivets (34)** through holes drilled in previous step.



60. Apply **foam strip (27)** to inside edge of hood adapter gasket. Work from one end, pressing it on fully then cut strip to length so it works as a seal.



61. Make sure your snorkel airbox is properly sealed, then check all clamps at connections and ensure brackets are properly tightened.

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62. Affix CARB Exemption Order label to a clean, readily-visible location under your hood where an inspector can easily see it at emissions testing.



Congratulations, the installation of your Flowmaster Delta Force Performance Snorkel is now complete!

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