TRAIL FORTRESS

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Rough Country 10543 Installation Instructions

Cold Air Intake for Silverado 1500 & Sierra 1500 (2009-2013)

Part number: 10543

trailfortress.com/cold-air-intake-silverado-1500-sierra-1500-rough-country-10543

Scan for fitment, price and install help

ROUGH COUNTRY
SUSPENSION SYSTEMS®

921054300

2009-13 GM1500 5.3L / 14 ESCALADE Cold Air Intake

Thank you for choosing Rough Country for all your vehicle needs.

Please read instructions before beginning installation. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go.
If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.
Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.
Periodically check all hardware for tightness.

NOTICE: NOT LEGAL FOR SALE OR USE IN CALIFORNIA OR OTHER STATES ADOPTING CARB REGULATIONS

KIT CONTENTS:
- 3/8" PVC Hose x1
- Intake Coupler x1
- Intake Tube / Filter coupler x1
- Heat Shield x1
- Heat Shield Rubber Trim x1
- Air Filter Flange x1
- Air Filter x1
- Intake Tube x1
- 90Deg. Fender Bracket x1

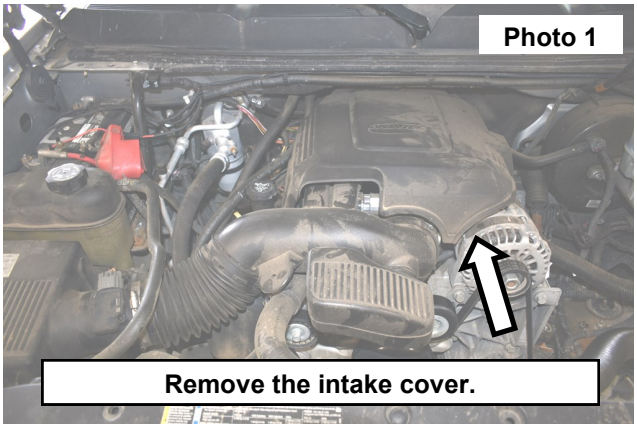
TOOLS NEEDED:
- Flat Head Screw Driver
- 10mm socket
- 1/2" Socket
- 5/8 wrench
- 5/8 Drill
- Drill Motor
- T15 Torx Bit
- Ratchet

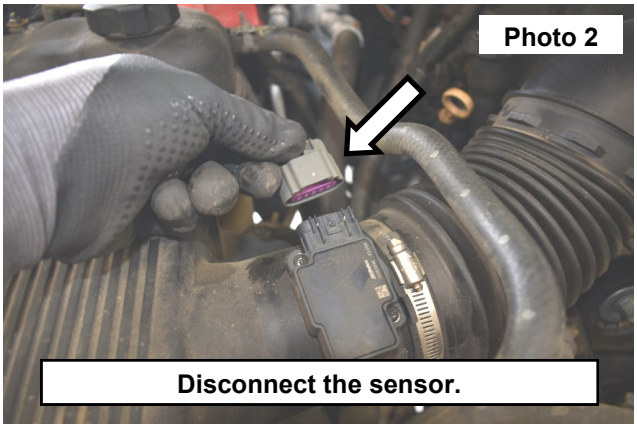
HARDWARE INCLUDED:
- Air Filter Clamp x1
- 1 1/4 Hose Clamp x2
- 3.5" Clamp x3
- 4" Clamp x1
- Barbed Fitting x1
- 6mm-1.00 x 16 hex head bolt x1
- 6mm x 25mm Hex Head Bolt x1
- 6mm Large OD Flat Washer x2
- 6mm Flat Washer x3
- 6mm Lock Nut x 2
- 5/16-18 x 1" Hex Head Bolt x2
- 5/16 Flat Washer x2
- 5/8"Rubber Insert Grommet x2
- 6mm-1.00 x 16mm Button Head x2
- 1/4" Flat Washers x2
- 1/4" Lock Washer x2
- 4mm Screws x2



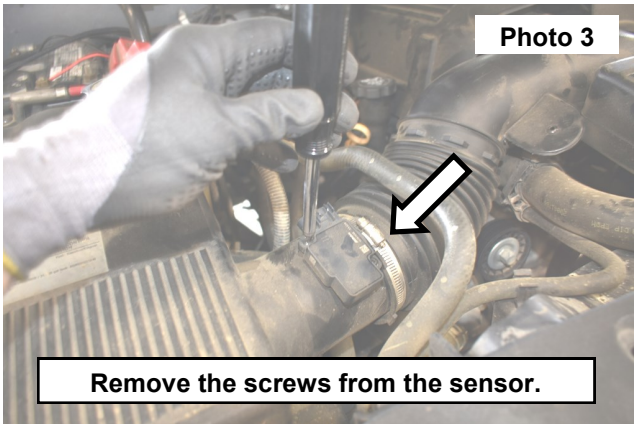
INSTALLATION INSTRUCTONS

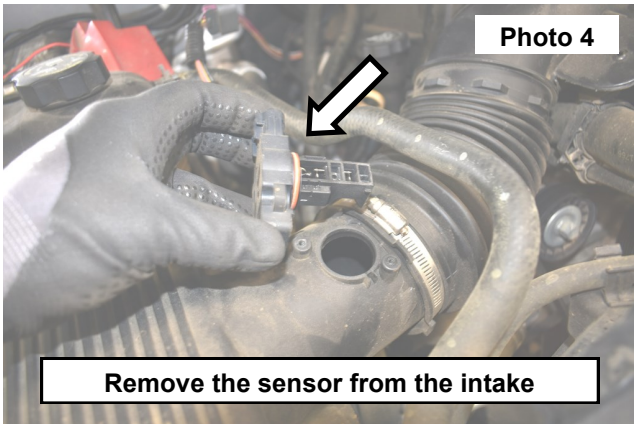
1. Turn the engine off and let the engine cool before beginning installation.
2. Remove the motor intake cover by lifting up releasing the ball sockets. Set aside in a safe place for later use. **See Photo 1.**
3. Disconnect the mass air flow sensor plug. **See Photo 2.**



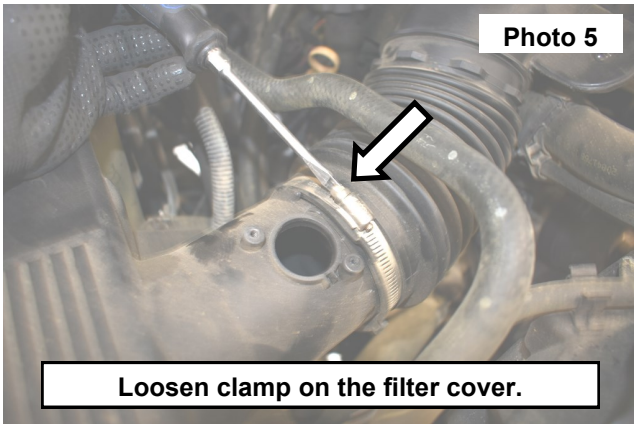


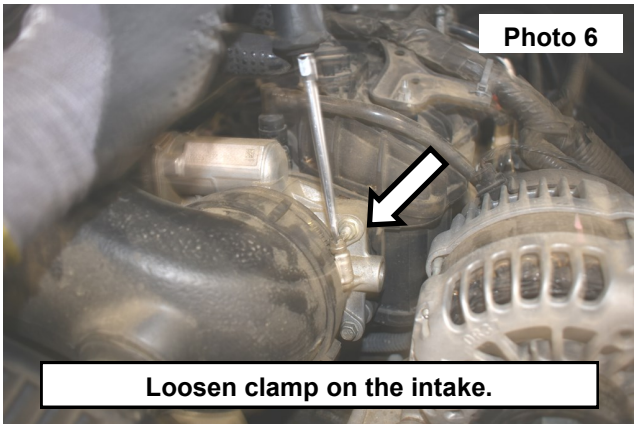
4. Using a T15 torx to remove the 2 screws in the sensor. **See Photo 3.**
5. Pull straight up to remove the sensor out of the intake. Do not damage, set aside in a safe place . This will be reused in a later step. **See Photo 4.**



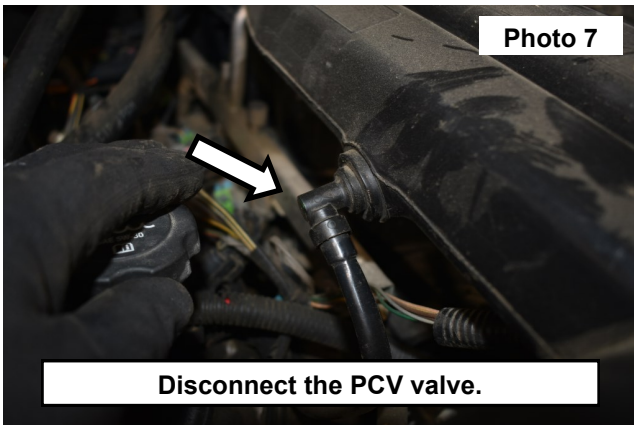


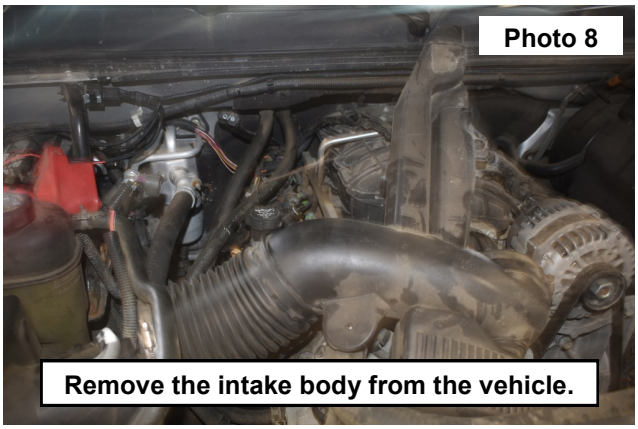
6. Loosen the clamp around the flex tube and filter cover using a flat head screw driver. **See Photo 5.**
7. Loosen the clamp around the intake body using a flat head screw driver. **See Photo 6.**



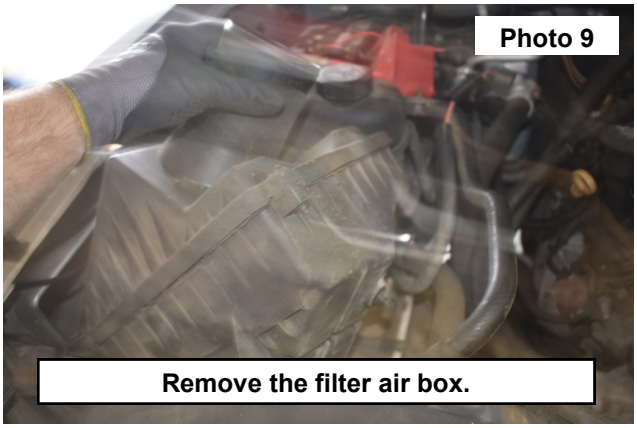


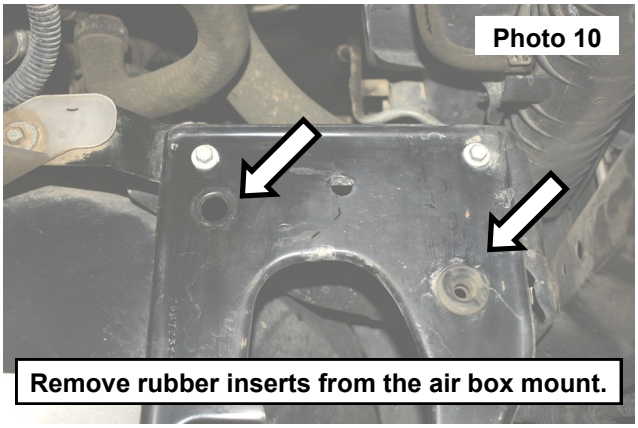
8. Remove the PCV valve connection on the side of the intake body. **See Photo 7.**
9. Remove the intake body from the vehicle. **See Photo 8.**



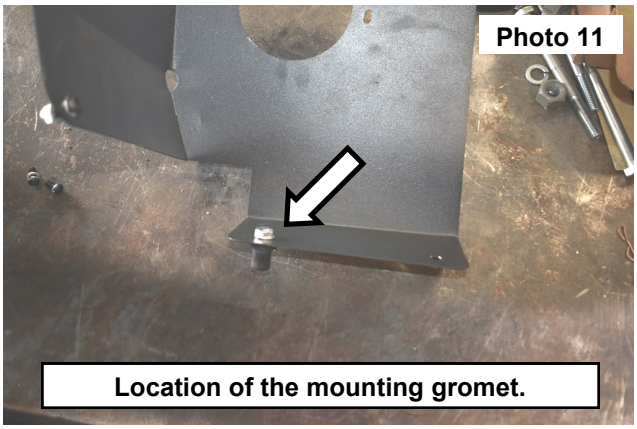


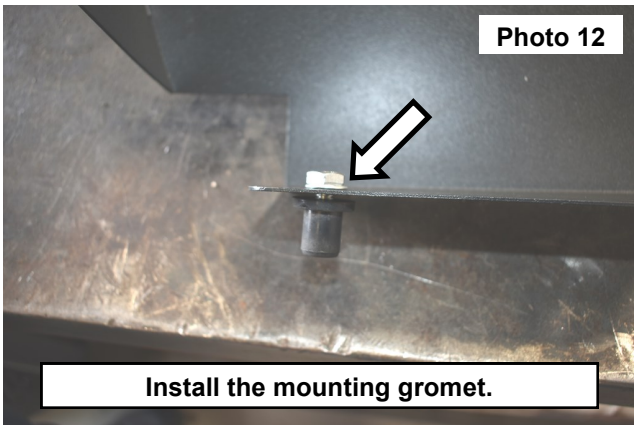
10. Lift up to release the ball studs from the rubber inserts in the bottom of the filter air box. **See Photo 9.**
11. Remove the 2 rubber inserts from the air box mount. **See Photo 10.**



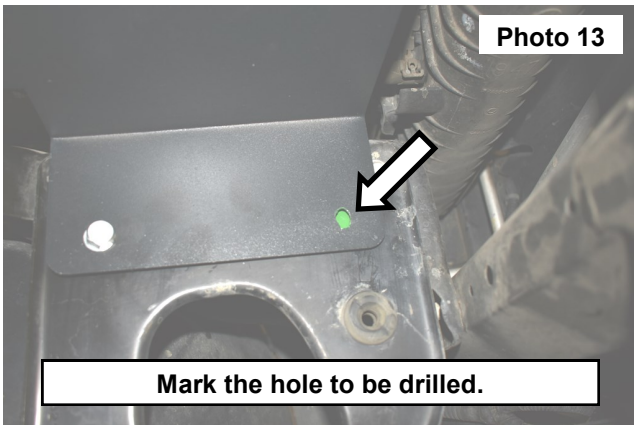


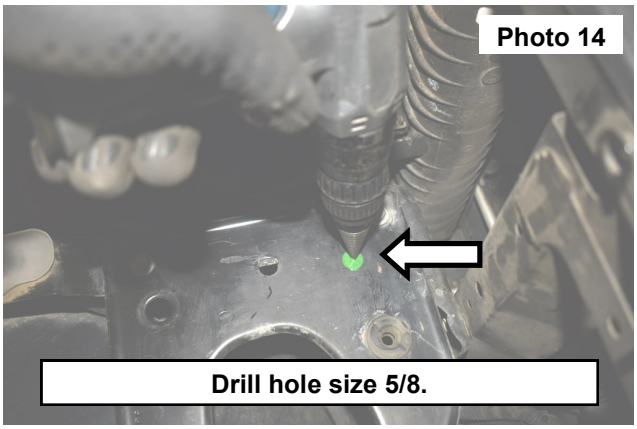
12. Install one mounting rubber gromet in the rear hole of the heat shield. **See Photo 11.**
13. Install the rubber gromet using (1) 5/16-18 x 1 hex head bolt and (1) flat washer into the rear hole in the heat shield. **See Photo 12.**



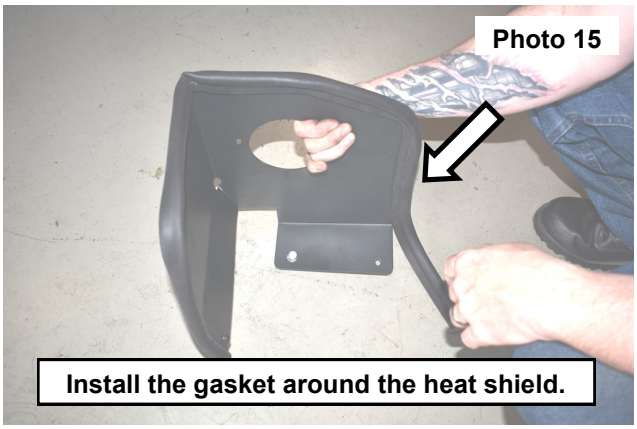


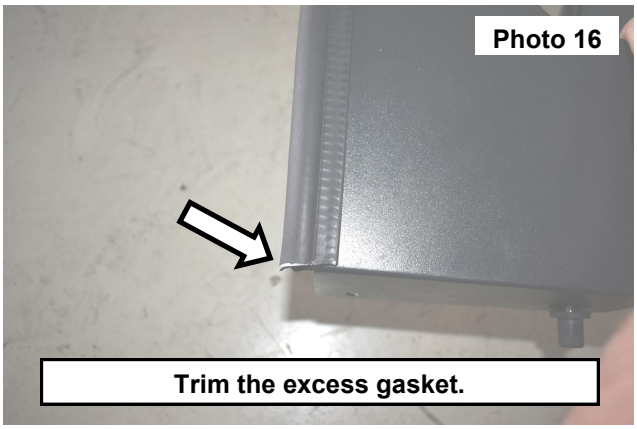
14. Snug the bolt in the rubber gromet mount down using a 1/2” socket. Make sure the heat shield is in the proper location. Then mark the other hole using a paint marker. **See Photo 13.**
15. Remove the heat shield from the vehicle. Drill a 5/8” hole in the center of the marked location. **See Photo 14.**



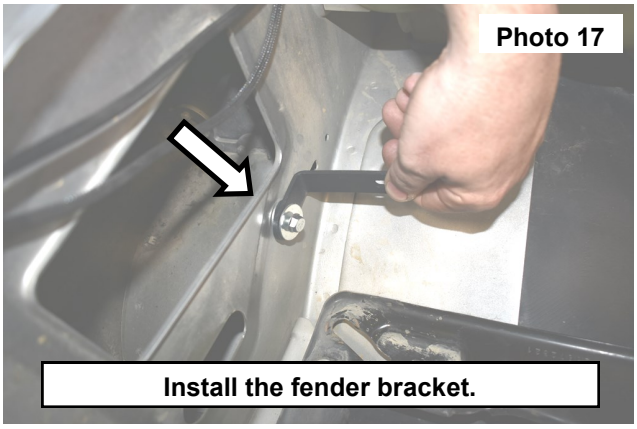


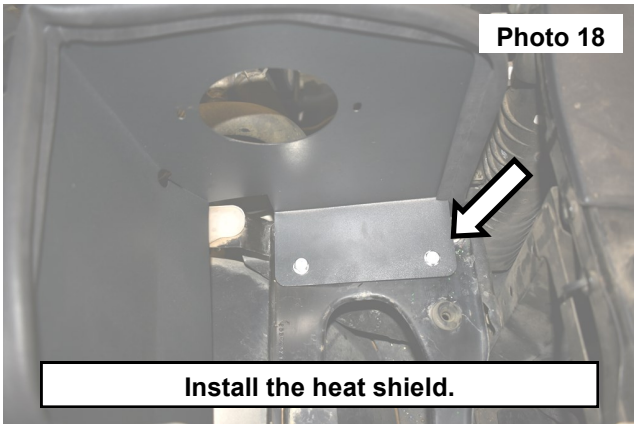
16. Install the rubber gasket around the edge of the heat shield. **See Photo 15.**
17. Trim the excess gasket off at the end of the heat shield. **See Photo 16.**



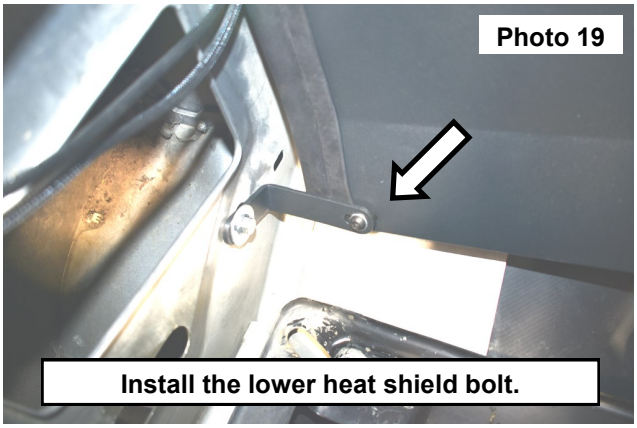


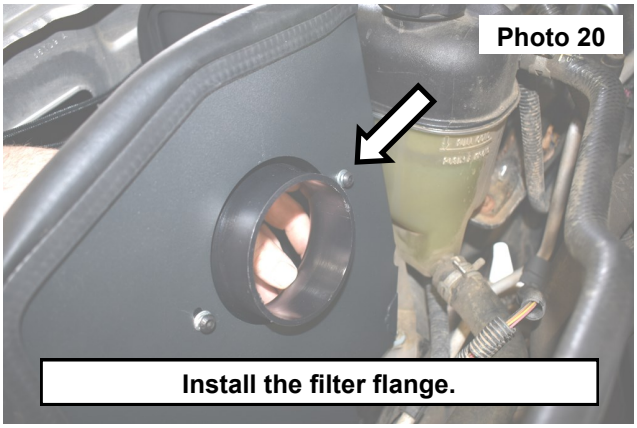
18. Install the 90 deg. fender bracket using 1 of the supplied 6mm-1.00 x 16mm hex head bolt, (2) 6mm flat washer and (1) 6mm-1.00 nylock nut. Tighten using a 10mm wrench and socket. **See Photo 17.**
19. Install the remaining rubber gromet using (1) 5/16-18 x 1 hex head bolt and (1) flat washer into the front hole of the heat shield. Then install the heat shield into the vehicle. Tighten the bolts until the rubber gromet has seated into the holes using a 1/2” socket. **See Photo 18.**



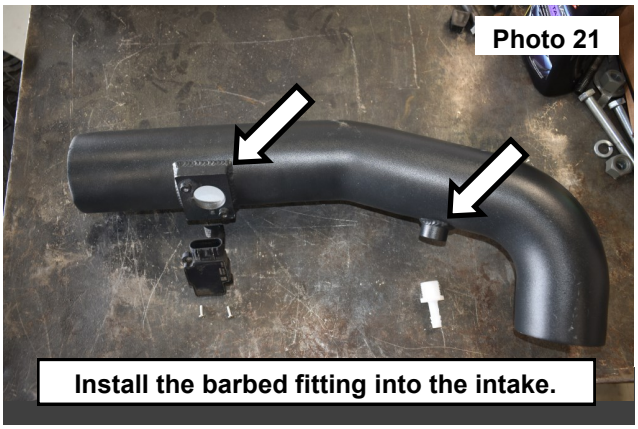


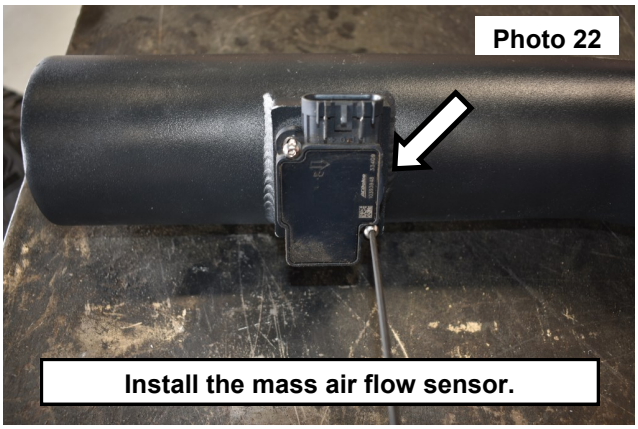
20. Secure the lower heat shield to the bracket using (1) 6mm-1.00 x 25mm hex bolt (2) 6mm flat washers and (1) 6mm-1.00 nylock nut. **See Photo 19.**
21. Install the filter flange onto the inside of the heat shield. Secure using 2 of the supplied 6mm-1.0 x 16mm button head allen bolts, (2) 6mm lock washers and (2) 6mm flat washers tighten using a 4mm allen wrench. **See Photo 20**.



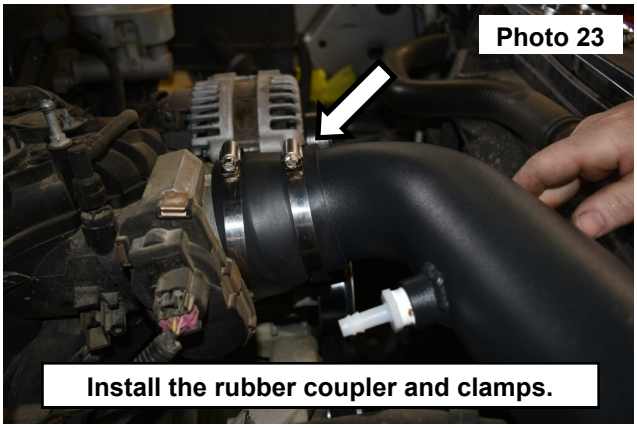


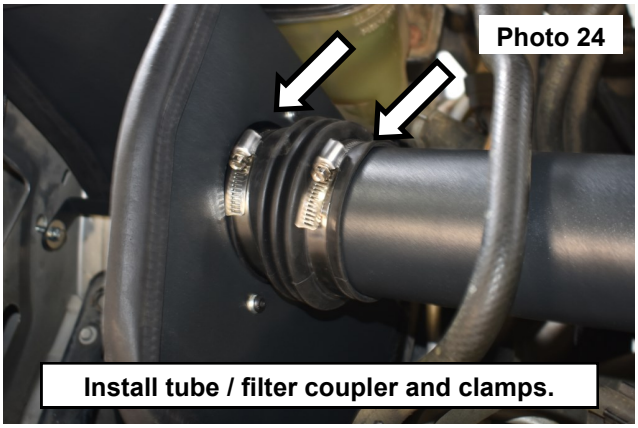
22. Install the barbed PVC hoes fitting into the intake tube, seal the fitting by using Teflon tape. Then install the OE mass air flow sensor into the intake tube using the supplied 4mm button head bolts tighten using a 2.5mm. Take care not to overtighten. **See Photo 21 and 22.**



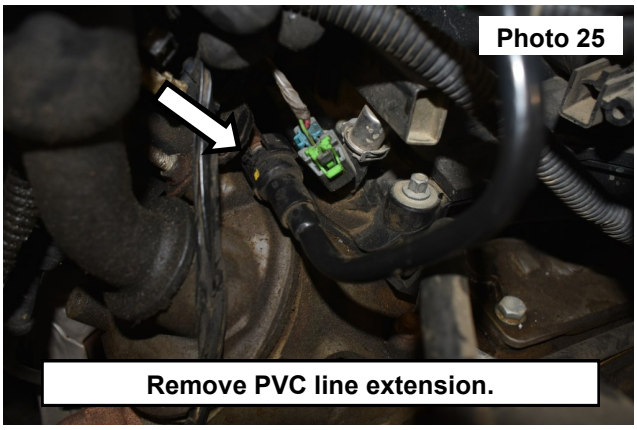


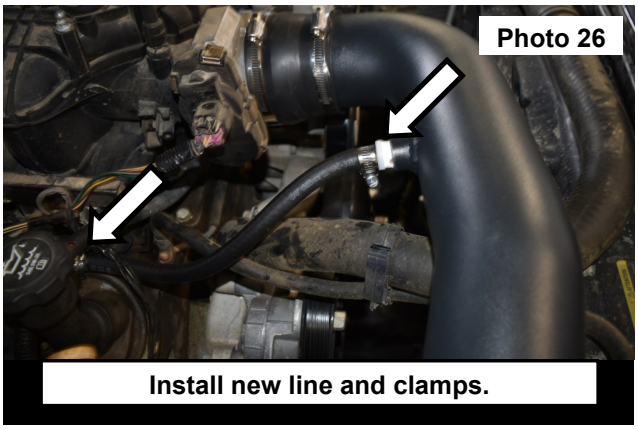
23. Install the rubber coupler onto the intake and secure with the (1) 4” clamp then tighten using a flat head screw driver. Install the intake tube and secure with the 3.5 clamp. Tighten the clamp using a flat head screw driver. **See Photo 23.**
24. Install a 3.5” clamp onto each side of the rubber flex coupler then install onto the intake tube and the filter flange. **See Photo 24.**



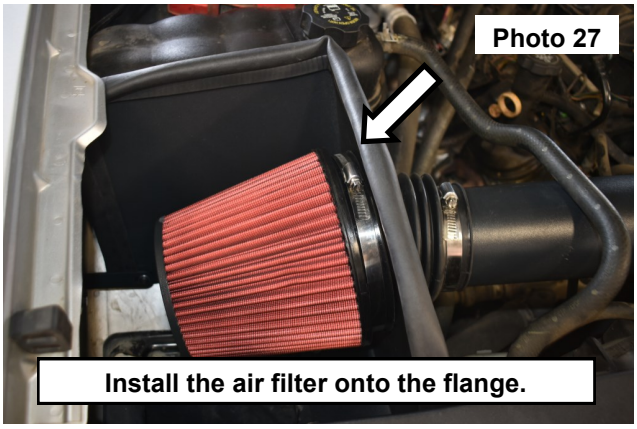


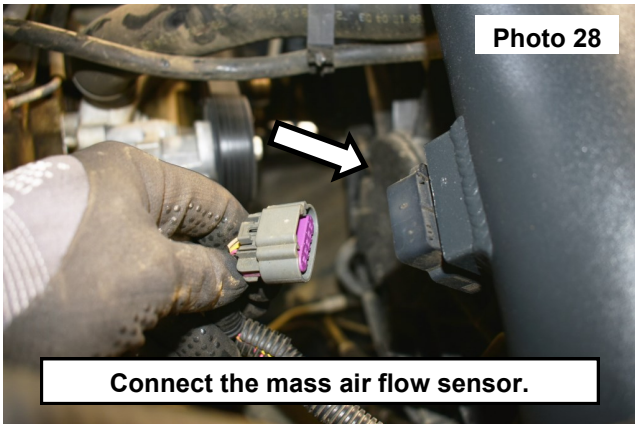
25. Remove the extension tube going to the PVC valve line. **See Photo 25.**
26. Install the supplied hoes and clamps onto the PVC line and the barbed fitting on the intake. Tighten using a flat head screw driver. **See Photo 26.**





27. Install the clamp onto the air filter then install the filter onto the flange inside of the heat shield. Tighten using a flat head screw driver. **See Photo 27.**
28. Connect the plug for the mas air flow sensor. **See Photo 28.**





29. Double check all clamps to ensure they are tight and check periodically.

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