

Mercedes Sprinter VS30 19+ Rear Air Spring

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.

Check and retighten wheels at 50 miles and again at 500 miles. Periodically check all hardware for tightness.

KIT CONTENTS:

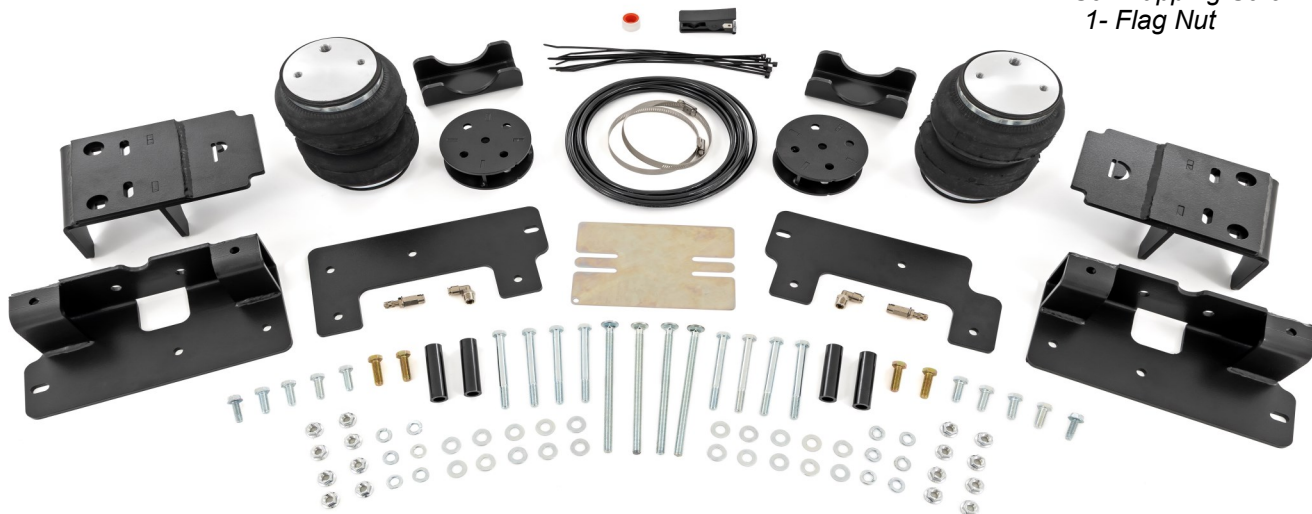
- 2- Air Springs
- 2- 1-1/2 Spacer
- 2- Bottom Axle Clamp
- 1- Dr Top Mount Bracket
- 1- Dr Top Inside Mount Plate
- 1- Dr Bottom Mount Bracket
- 1- Pass Top Mount Bracket
- 1- Pass Top Inside Mount Plate
- 1- Pass Bottom Mount Bracket
- 1- Inflation Valve Plate

TOOLS NEEDED:

- Jack and Jack Stands
- Pry Tool
- Paint Pen
- T-55 Torx
- 13mm socket/extension
- 14mm
- 9/16
- 3/4 Drill and Motor
- 17/32 Drill and Motor
- 1/2 Socket / Impact Drill

HARDWARE INCLUDED:

- 2- 90 DEG Elbow
- 4- Sleeve
- 4- .375-16 x 6.5" Carriage Bolt
- 20- .375 Flat Washer
- 8- .375-16 x 3.75" Bolt
- 16- .375-16 Flange Nut
- 12- .375 Lock Washer
- 8- .375-16 x 1" Bolt
- 4- .375-16 x 1.25" Bolt
- 1- 1/4" Air Line (20')
- 2- Inflation Valve
- 2- Hose Clamp
- 1- Air Line Cutter
- 1- Heat Shield
- 8- 11" Cable Tie
- 1- Teflon Tape
- 2- 1/2 Self Tapping Screw
- 1- Flag Nut



Torque Specs:

| Size | Grade 5 | Grade 8 | Size | Class 8.8 | Class 10.9 |
|-------|-----------|-----------|------|-----------|------------|
| 5/16" | 15 ft/lbs | 20ft/lbs | 6MM | 5ft/lbs | 9ft/lbs |
| 3/8" | 30 ft/lbs | 35ft/lbs | 8MM | 18ft/lbs | 23ft/lbs |
| 7/16" | 45 ft/lbs | 60ft/lbs | 10MM | 32ft/lbs | 45ft/lbs |
| 1/2" | 65 ft/lbs | 90ft/lbs | 12MM | 55ft/lbs | 75ft/lbs |
| 9/16" | 95 ft/lbs | 130ft/lbs | 14MM | 85ft/lbs | 120ft/lbs |
| 5/8" | 135ft/lbs | 175ft/lbs | 16MM | 130ft/lbs | 165ft/lbs |
| 3/4" | 185ft/lbs | 280ft/lbs | 18MM | 170ft/lbs | 240ft/lbs |

INSTALLATION INSTRUCTIONS

1. Raise vehicle and place frame on jack stands.
2. Using a pry tool, remove upper bump stop. **See Photo 1.**
3. With a T-55, loosen sway bar bolts and remove lower bump stop. **See Photo 2.**



Photo 1

Remove upper bump stop.

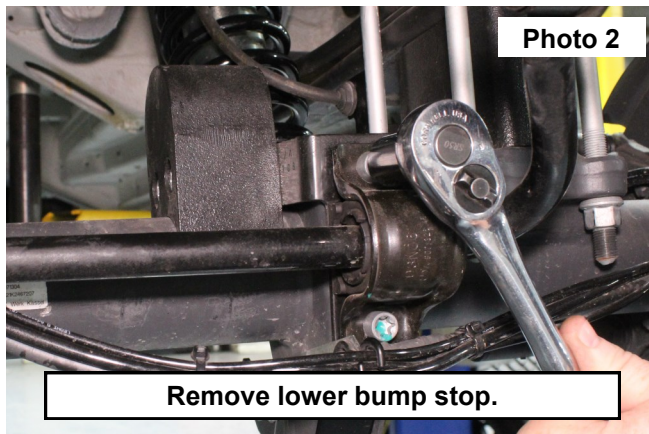


Photo 2

Remove lower bump stop.

4. Once the lower bump stop is removed, replace the sway bar bolts. **See Photo 3.**
5. Using a 14mm wrench, install 90 DEG air fitting on air bag. **See Photo 4.**

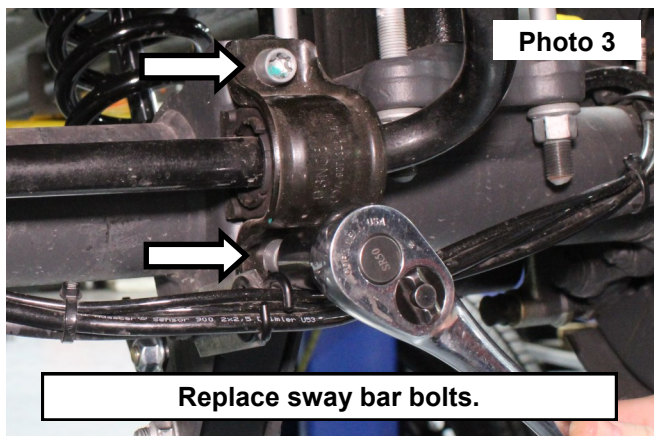


Photo 3

Replace sway bar bolts.

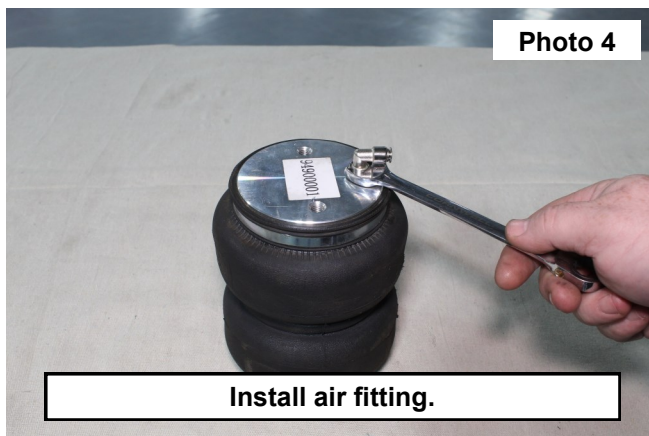


Photo 4

Install air fitting.

6. Using the 9/16 wrench, install spacer on air bag. **See Photo 5.**
7. Install the inner top mount to outer top mount using the supplied 3/8 bolts. Do not tighten at this time. NOTE: (Pass. side pictured). **See Photo 6.**

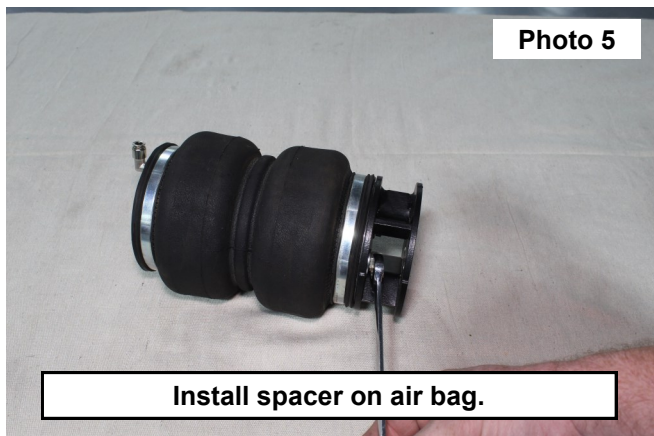


Photo 5

Install spacer on air bag.

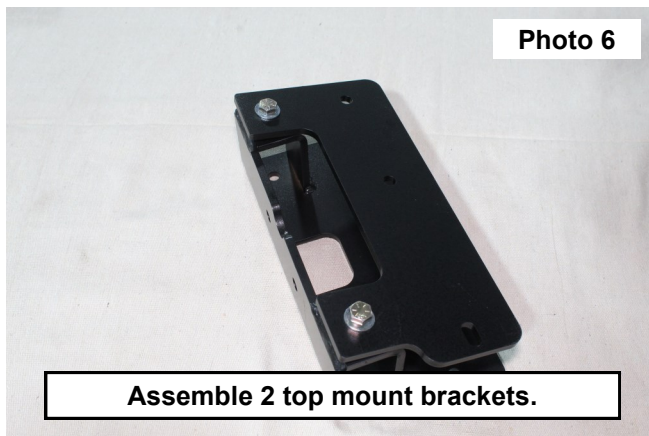
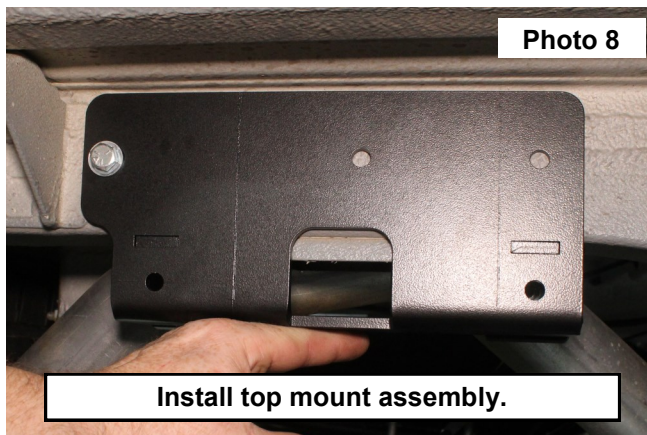


Photo 6

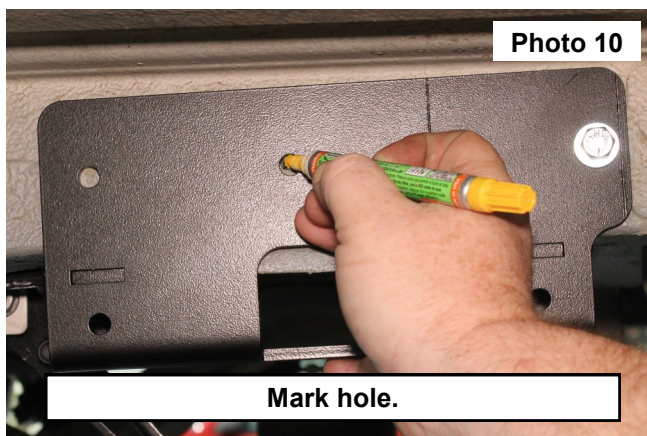
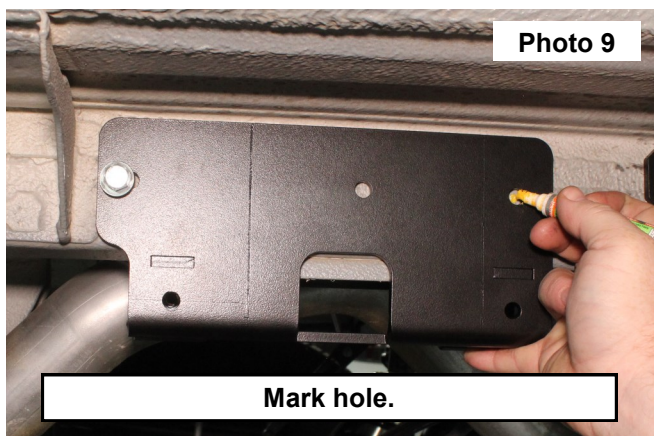
Assemble 2 top mount brackets.

INSTALLATION INSTRUCTIONS

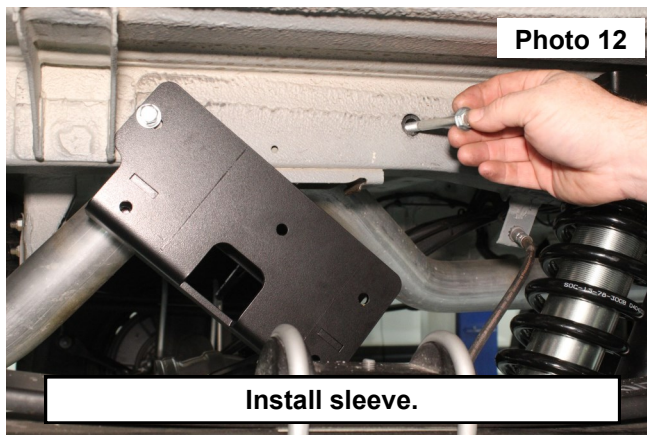
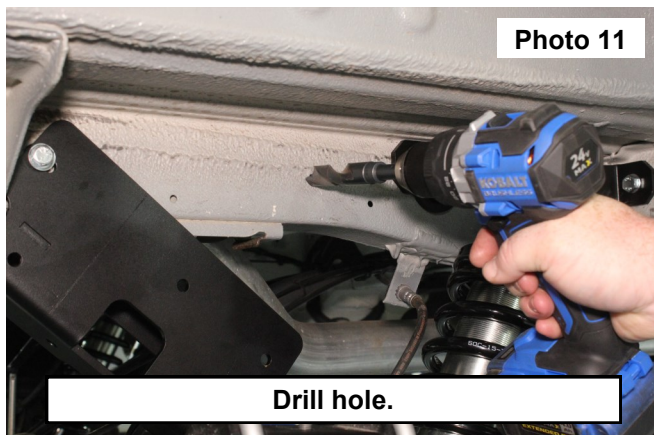
8. Place sleeve on 6.5" bolt and install sleeve in hole on frame. See **Photo 7**.
9. With sleeve installed, mount the top mount assembly on frame. Make sure the bracket is flat over the factory bump-stop mount. See **Photo 8**.



10. Using a paint pen, mark frame. See **Photo 9**. NOTE: Photo 9 is Pass Side.
11. Using a paint pen, mark frame. See **Photo 10**. NOTE: Photo 10 is DR Side.

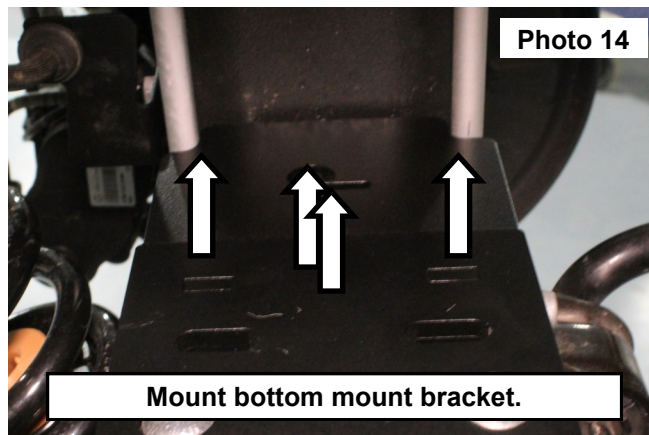
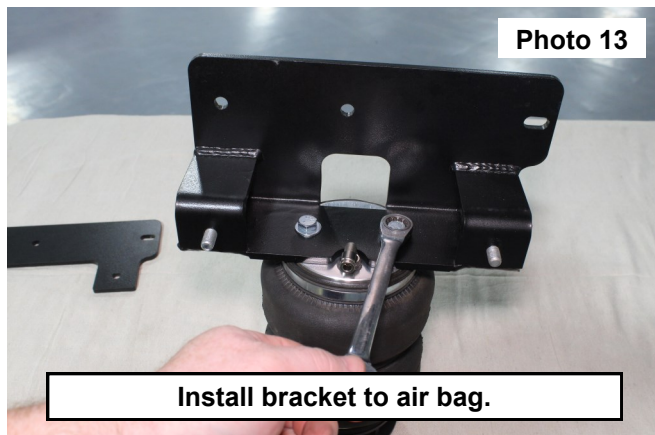


12. Using a 3/4 bit and motor, drill marked hole. See **Photo 11**.
13. Place sleeve on 6.5 bolt and install sleeve in drilled hole. See **Photo 12**.

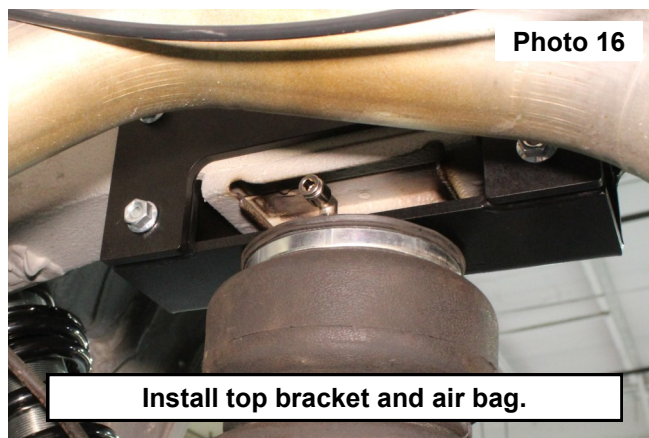
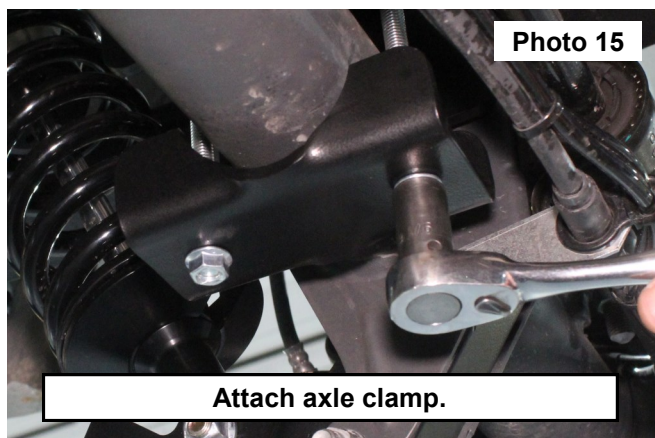


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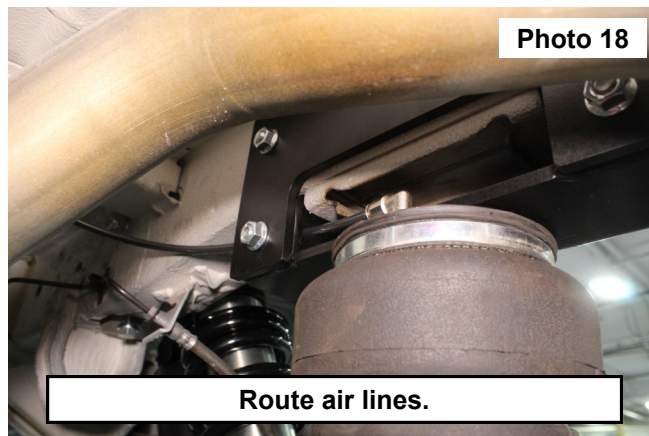
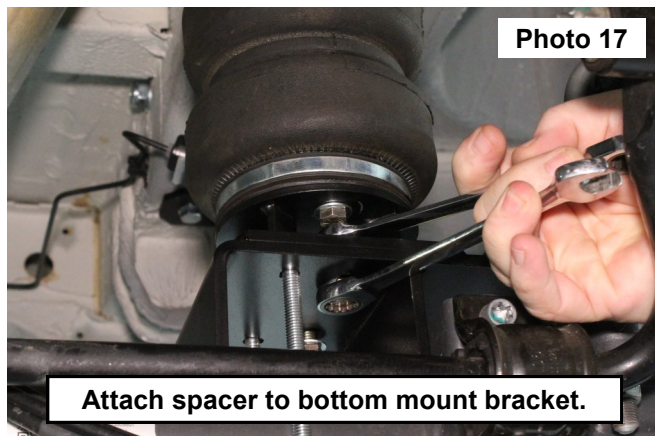
14. Remove upper mount assembly from frame. Using supplied 3/8 x 1.25 bolts, attach the air bag to upper mounting assembly. (Inner plate has been removed for photo.). **See Photo 13.**
15. Place the bottom mount on top of axle and slide up to factory block, ensuring plate is between the factory U-bolts. **See Photo 14.**



16. Thread carriage bolts thru bottom mount bracket and secure to axle clamp using 9/16 socket or wrench. **See Photo 15.**
17. Attach top mount bracket assembly to frame and tighten with 9/16 socket or wrench. **See Photo 16.**

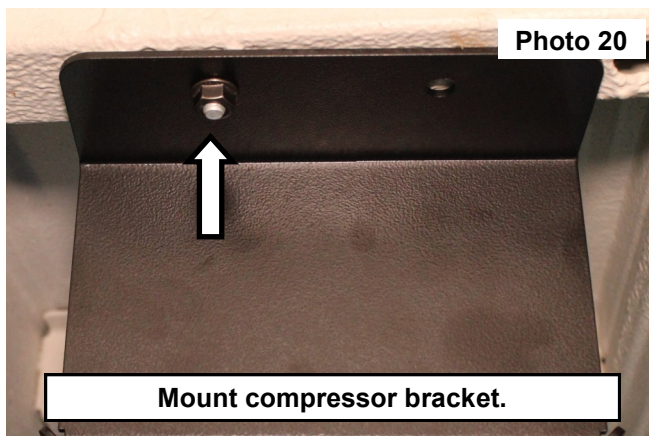
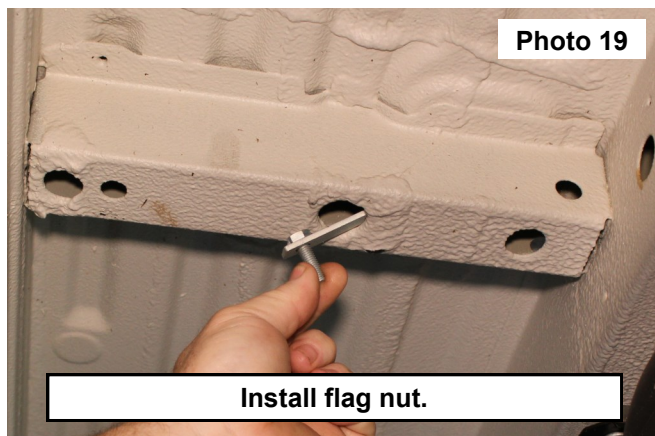


18. Using 9/16 wrench and the 3/8 x 1" bolts, attach the spacer to the bottom mount bracket. **See Photo 17.**
19. Ensure to route air lines away from exhaust system. **See Photo 18.**

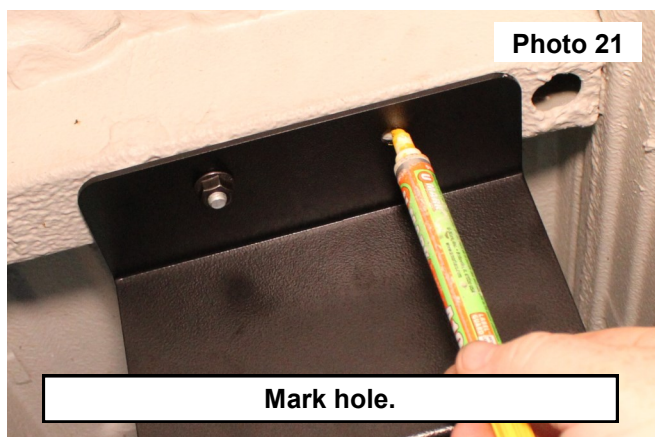


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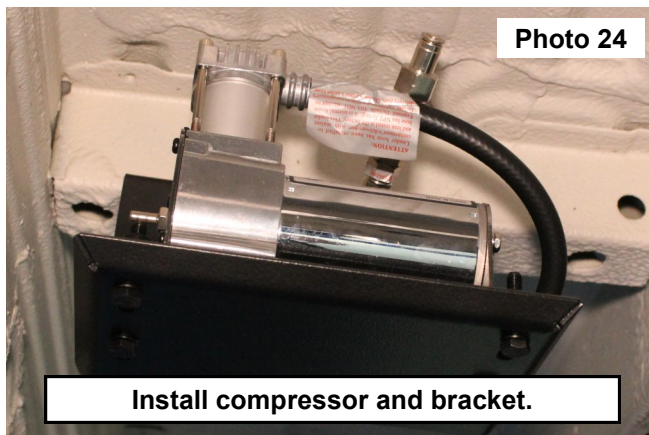
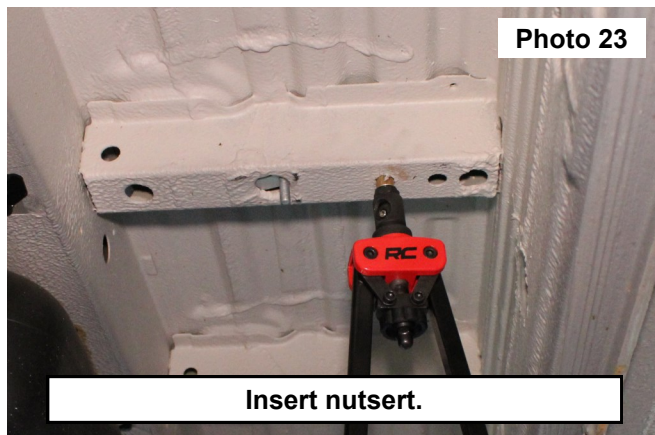
20. Insert flag nut in baffle. See **Photo 19**.
21. Loosely attach the compressor bracket on the flag nut. See **Photo 20**.



22. Using a paint pen, mark location for mounting hole. See **Photo 21**.
23. Using 17/32 drill and motor, drill marked hole. See **Photo 22**.

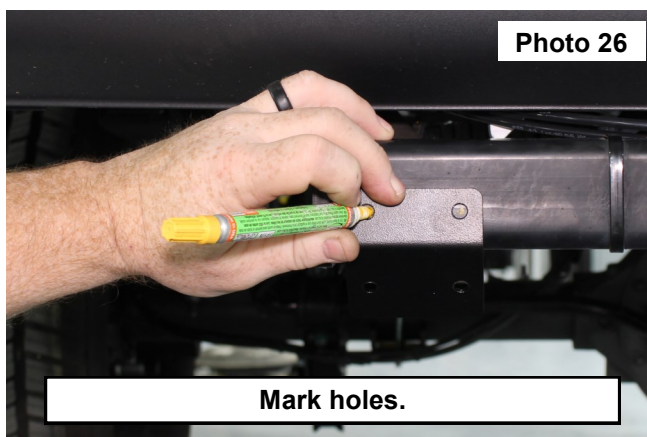
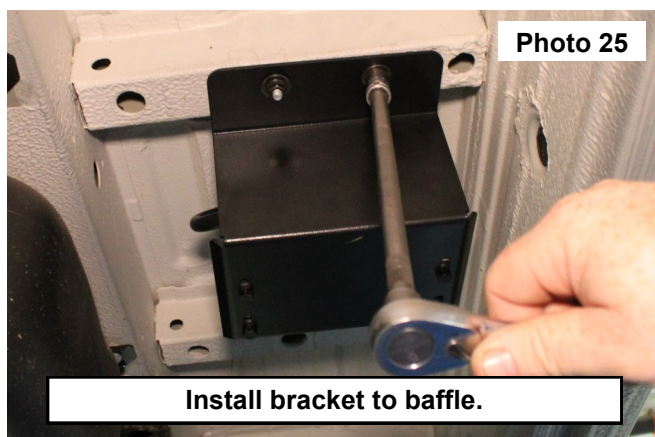


24. Using Nutsert tool, insert 9/16 nutsert into baffle. See **Photo 23**. NOTE: Nutsert tool can be purchased on RC website. www.roughcountry.com/product/nutsert-tool-10583.
25. Install compressor to bracket prior to mounting bracket and mount bracket to baffle. Run electrical wires according to manufacturer directions. See **Photo 24**.

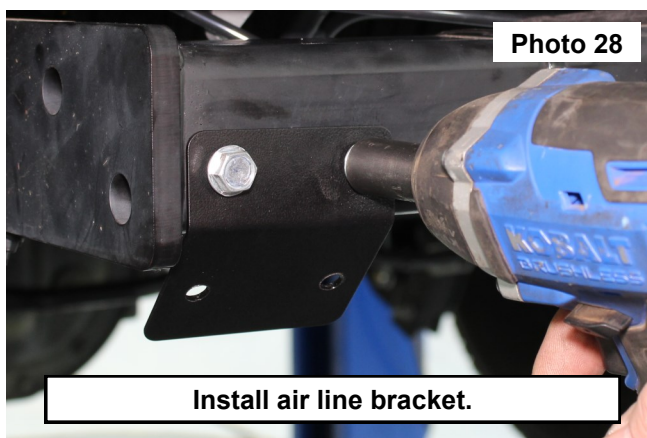
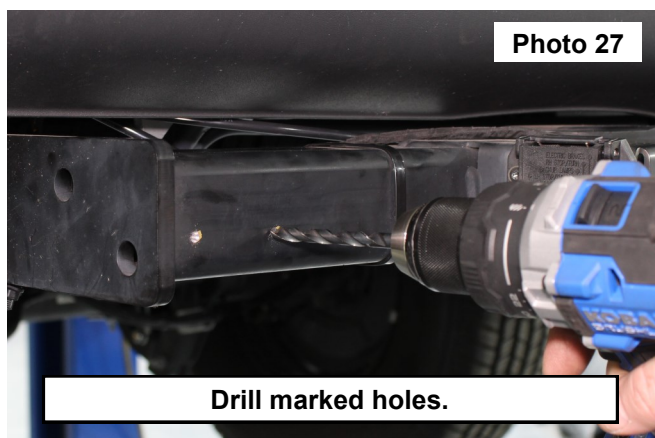


INSTALLATION INSTRUCTIONS

26. Use 13mm socket and extension, tighten compressor bracket to baffle. **See Photo 25.**
27. Place air line mount bracket in desired location and using paint pen, mark holes. **See Photo 26.**



28. Using 9/32 drill and motor, drill marked holes. **See Photo 27.**
29. Using 1/2 socket, attach the air line bracket. **See Photo 28.**
30. Run air lines to desired route ensuring lines are not close to exhaust system



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