

advanced FLOW engineering

Instruction Manual P/N: 46-71440A / 46-71440B

Make: Chevrolet/GMC	Model: Silverado/Sierra 1500	Year: 2020-2026	Engine: I6-3.0L (td)
Make: Chevrolet/GMC	Model: Tahoe/Yukon	Year: 2021-2026	Engine: I6-3.0L (td)
Make: Chevrolet/GMC	Model: Suburban/Yukon XL	Year: 2021-2026	Engine: I6-3.0L (td)
Make: Cadillac	Model: Escalade/Escalade ESV	Year: 2021-2024	Engine: I6-3.0L (td)



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- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- For technical support please call 951-493-7185.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A1	1	Oil Pan – Raw, Machined Fins (46-71440A)	05-61639A
A2	1	Oil Pan – Black, Machined Fins (46-71440B)	05-61639B
B	1	RTV Silicone	05-60096
C	23	Screw, Socket Head Cap: M5x0.8x25, S/S	03-50844
D	23	Washer, Flat: M5 AN S/S	03-50845
E	1	Plug, M12 x 1.25	03-50385
F	1	Washer, Aluminum: M12, 15.85MM OD	03-50384

Tools Needed:

<ul style="list-style-type: none"> • 8mm Socket • 10mm Socket • 13mm Socket • 14mm Socket • 15mm Socket • 18mm Socket • 21mm Socket • 23mm Socket • 36mm Socket • 4mm Hex-Bit Socket • Ratchet & Extension • Prying Bar 	<ul style="list-style-type: none"> • 18mm Wrench • 21mm Wrench • Razor Blade Scraper • Oil filter wrench • Torque Wrench • Hammer • Specialty Tools for Ball Joints and Tie Rod Ends • Trim Removal tool
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Warranty Information available at <https://afepower.com/contact#warranty>

Emissions Disclaimer: This product does not require a CARB EO#.



A1



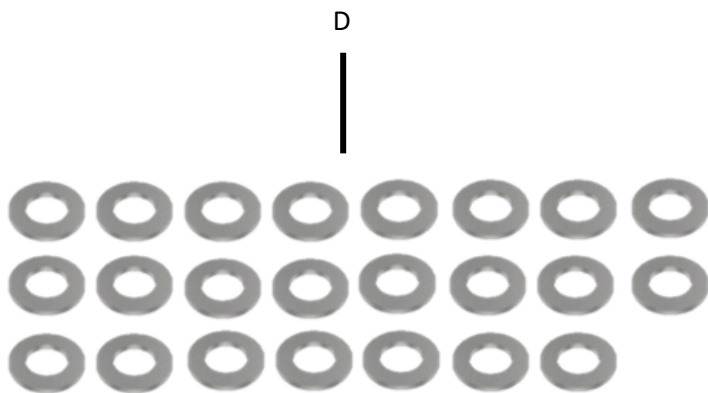
A2



B



C



D



E



F



Figure A

Refer to Figure A for Steps 1-4

Step 1: Park the vehicle on a level ground and engage the parking brake. Allow the vehicle to cool down before beginning installation.

Step 2: You will need to jack up the front of the vehicle so that the front tires are off the ground. Use wheel chocks (not supplied) for safety.

Step 3: Remove the skid plate (if applicable).

Note: For two-wheel drive application please proceed to Step 26

Step 4: Remove the front-driver and front passenger-side wheels from the truck.



Figure B

Refer to Figure B for Steps 5-7

Driver's Side of the vehicle:

Step 5: Remove the nut from the tie rod end. Save all hardware for reinstallation.

Step 6: Disconnect the tie rod end from the knuckle.

Note: Factory specifications recommend replacing the axle nut after it has been removed.

Step 7: Remove the axle nut from the axle.

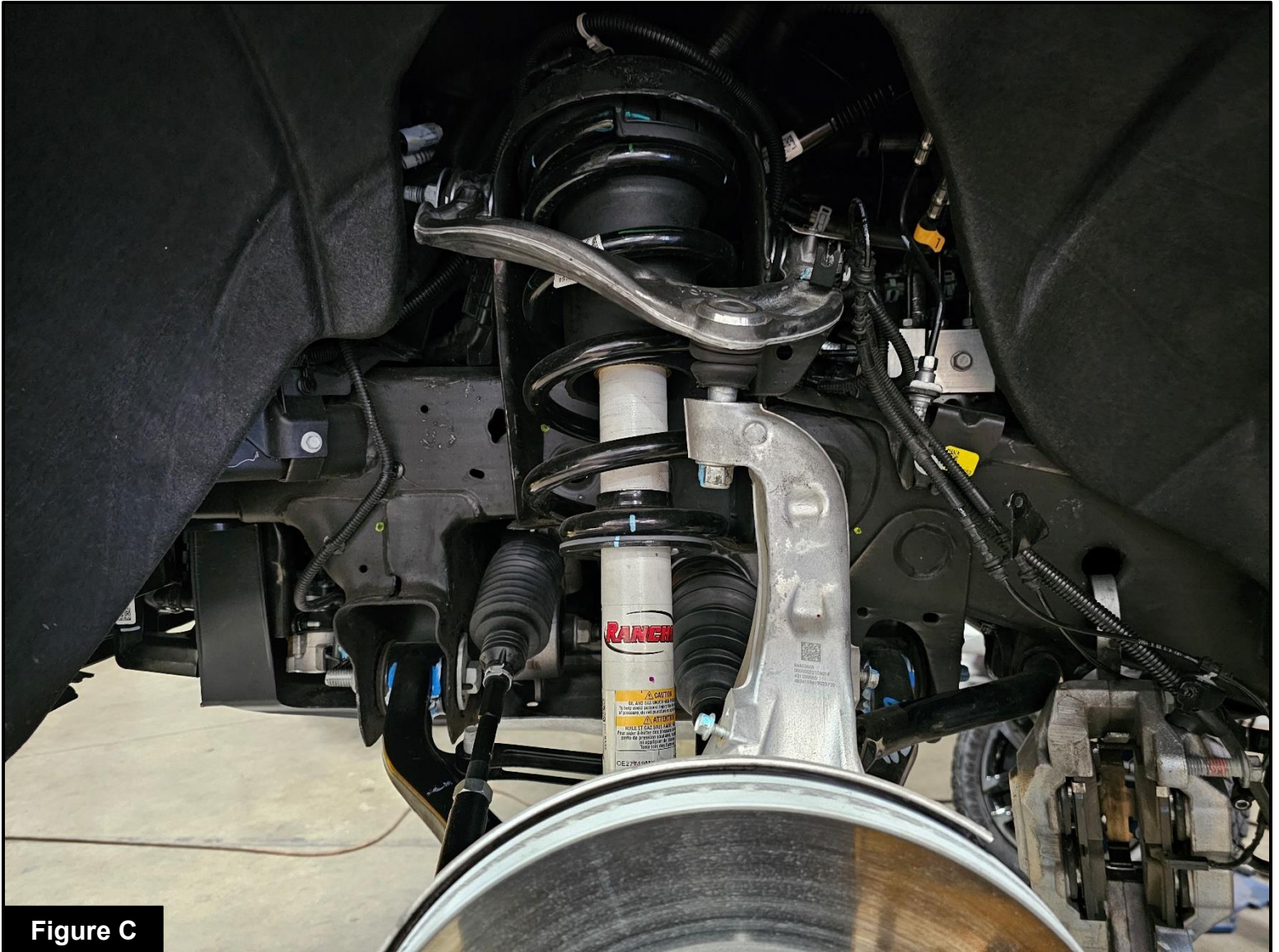


Figure C

Refer to Figure C for Steps 8-12

Step 8: Disconnect and remove the screw securing the ABS wire from the knuckle. Save all hardware for reinstallation.

Step 9: Disconnect and remove the screw securing the brake pad wear sensor wire from the knuckle. Save all hardware for reinstallation.

Step 10: Remove the screws securing the brake caliper, then securely hang the caliper from the frame. **Do not allow it to hang freely from the brake line.** Save all hardware for reinstallation.

Step 11: Loosen the upper ball joint from the knuckle.

Step 12: Disconnect the upper control arm from the knuckle. Save all hardware for reinstallation.



Figure D

Refer to Figure D for Steps 13-15

Step 13: Loosen the lower ball joint nut. Save all hardware for reinstallation.

Step 14: Remove the knuckle from the lower control arm.

Step 15: Repeat the procedure on the passenger side.



Figure E

Refer to Figure E for Steps 16-17

Step 16: Remove the coilover assembly from the front driver's side only. Save all hardware for reinstallation.

Step 17: Remove the axles from the front differential by using a prybar and gently pry out the half shafts on both sides. Save all hardware for reinstallation.



Figure F

Refer to Figure F for Step 18

Step 18: Remove the sway bar end links from the lower control arms. Save all hardware for reinstallation.



Figure G

Refer to Figure G for Steps 19-22

Step 19: Remove the sway bar. Save hardware for reinstallation

Step 20: Remove the six (6) driveshaft screws at the front differential. **Do not remove the drive shaft from the vehicle.** Save all hardware for reinstallation.

Step 21: Remove the bolt and nut from the rear mount of the front differential. Save all hardware for reinstallation.

Step 22: Remove the four (4) bolts securing the cross member, then remove the crossmember. Save all hardware for reinstallation.



Figure H

Refer to Figure H for Steps 23-25

Step 23: Disconnect the electrical connector from to the front differential. Pull the wire loose from the differential cover as needed.

Step 24: Remove the breather hose attached to the top of the front differential.

Step 25: Remove the front differential from the vehicle by removing the two (2) bolts securing it in place. Save all hardware for reinstallation.

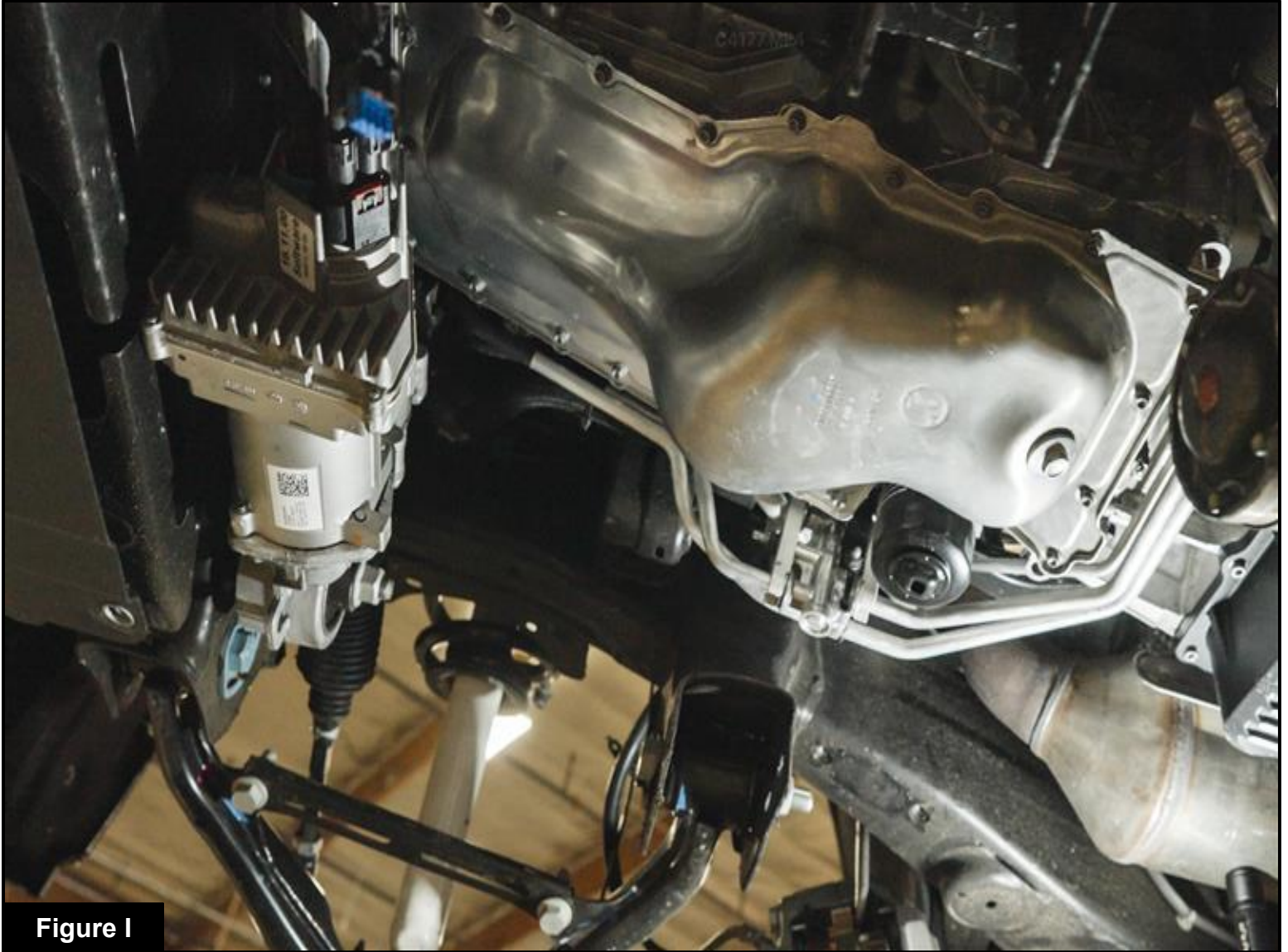


Figure I

Refer to Figure I for Steps 26-27

Step 26: Remove the twenty-three (23) stock screws securing the stock oil pan.

Step 27: Carefully pry the stock oil pan away from the upper oil pan. Use caution when removing the oil pan.

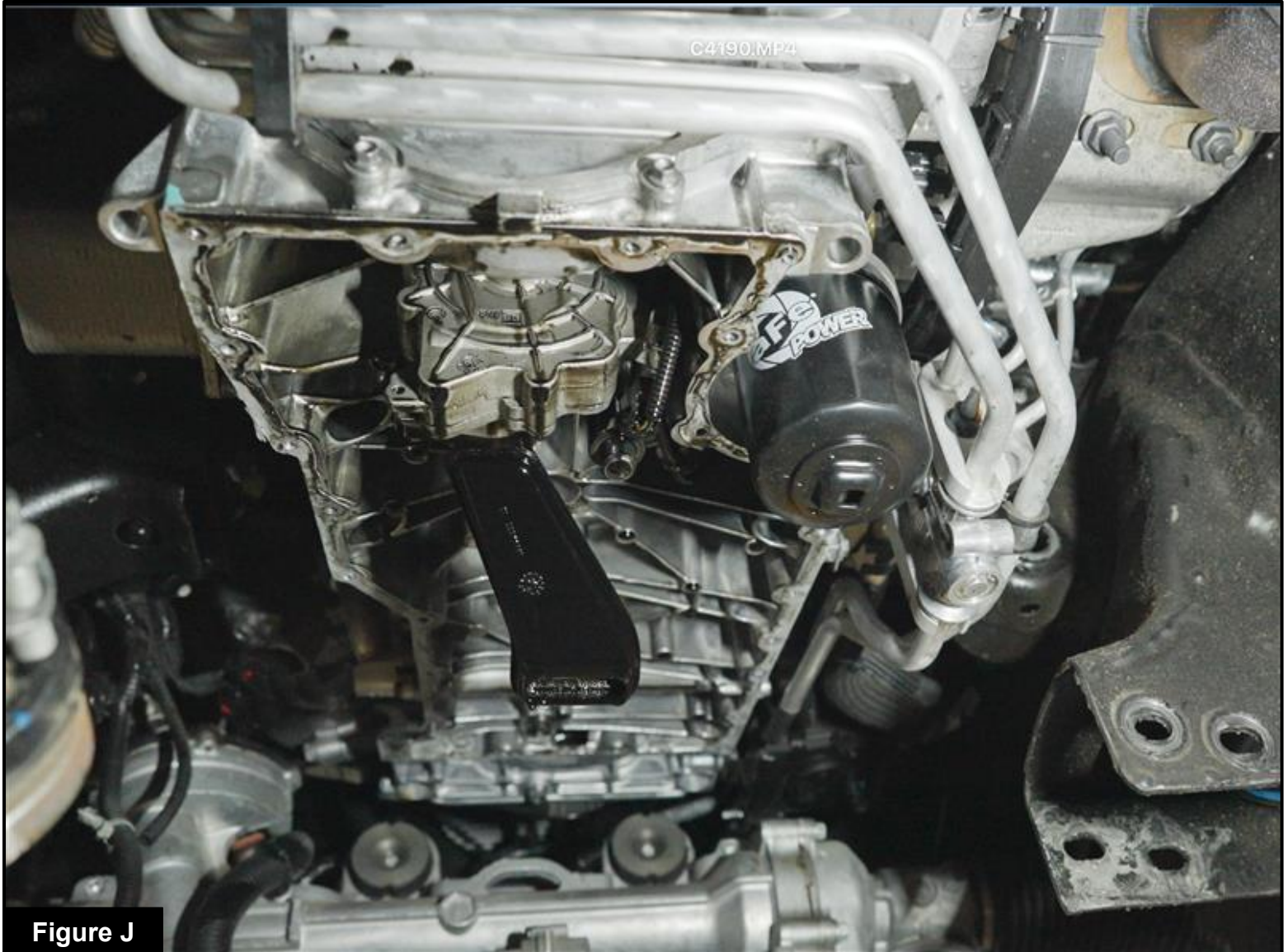


Figure J

Refer to Figure J for Step 28

Step 28: Thoroughly clean the mating surface.

Note: Clean the oil off the oil pickup and surrounding area.



Figure K

Refer to Figure K for Step 29

Step 29: Apply a continuous bead of RTV silicone in the machined groove and around the screw holes.



Figure L

Refer to Figure L for Steps 30-33

Step 30: Carefully install the aFe oil pan until it contacts the upper oil pan.

Step 31: Install the supplied twenty-three (23) socket head cap screws and the supplied twenty-three (23) washers to secure the aFe oil pan. **Do not fully tighten yet.**

Step 32: Torque the screws to **61 in-lb (7 Nm)** in an X-pattern. Begin at the center and work outward diagonally to ensure even pressure.

Step 33: Install the supplied M12 x 1.25 drain plug and crush washer into the bottom of the aFe oil pan. Torque to **25 ft-lb (33 Nm)**.

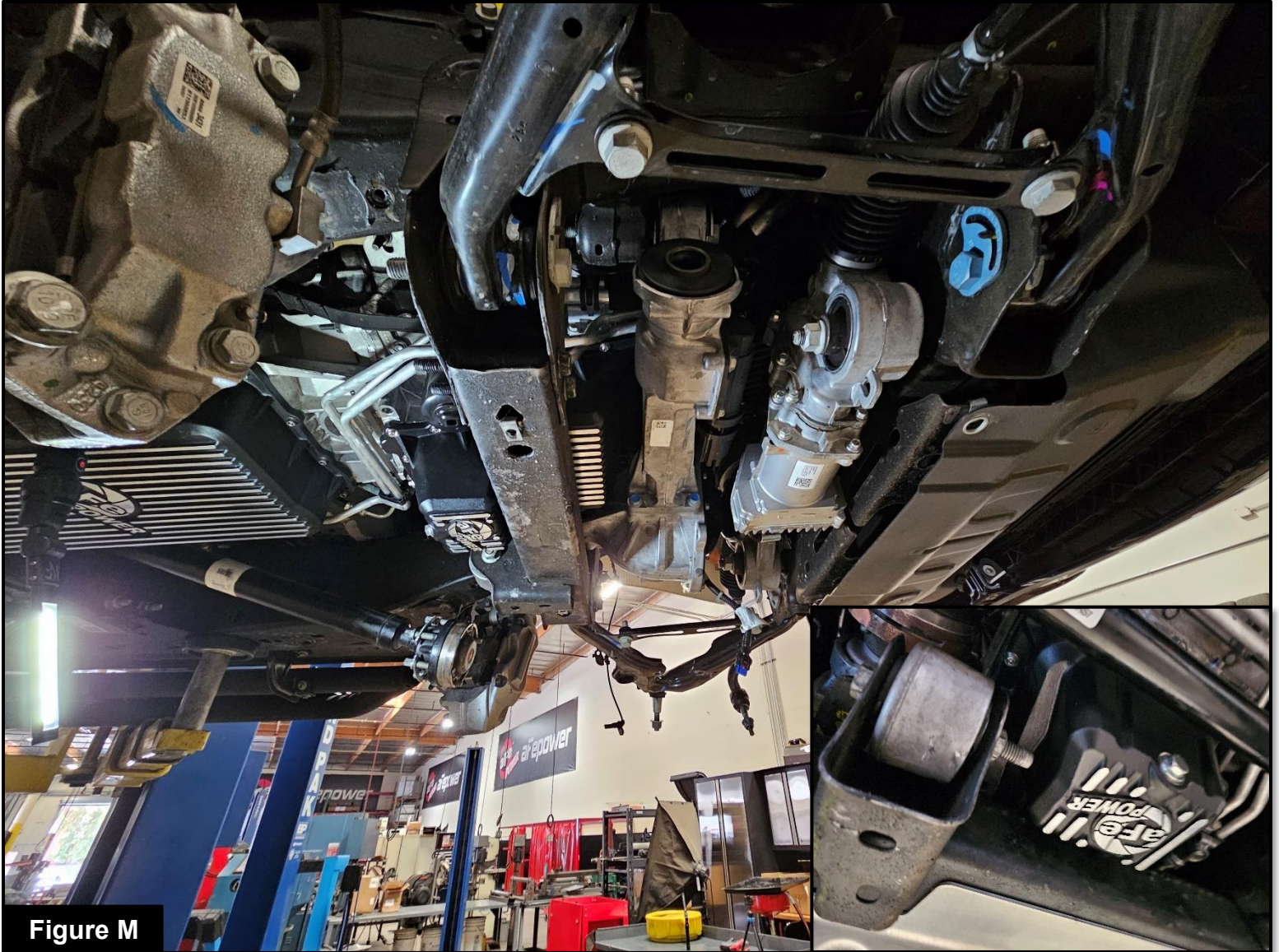


Figure M

Refer to Figure M for Steps 34-35

Step 34: Reinstall the crossmember using the factory hardware and tighten to factory specifications. The lower differential mount bolt goes in from the driver's side, and the nut goes near the pan.

For two-wheel drive applications, please proceed to Step 56.

Step 35: Reconnect the electrical connector for the front differential and the breather hose to the top of the front differential.

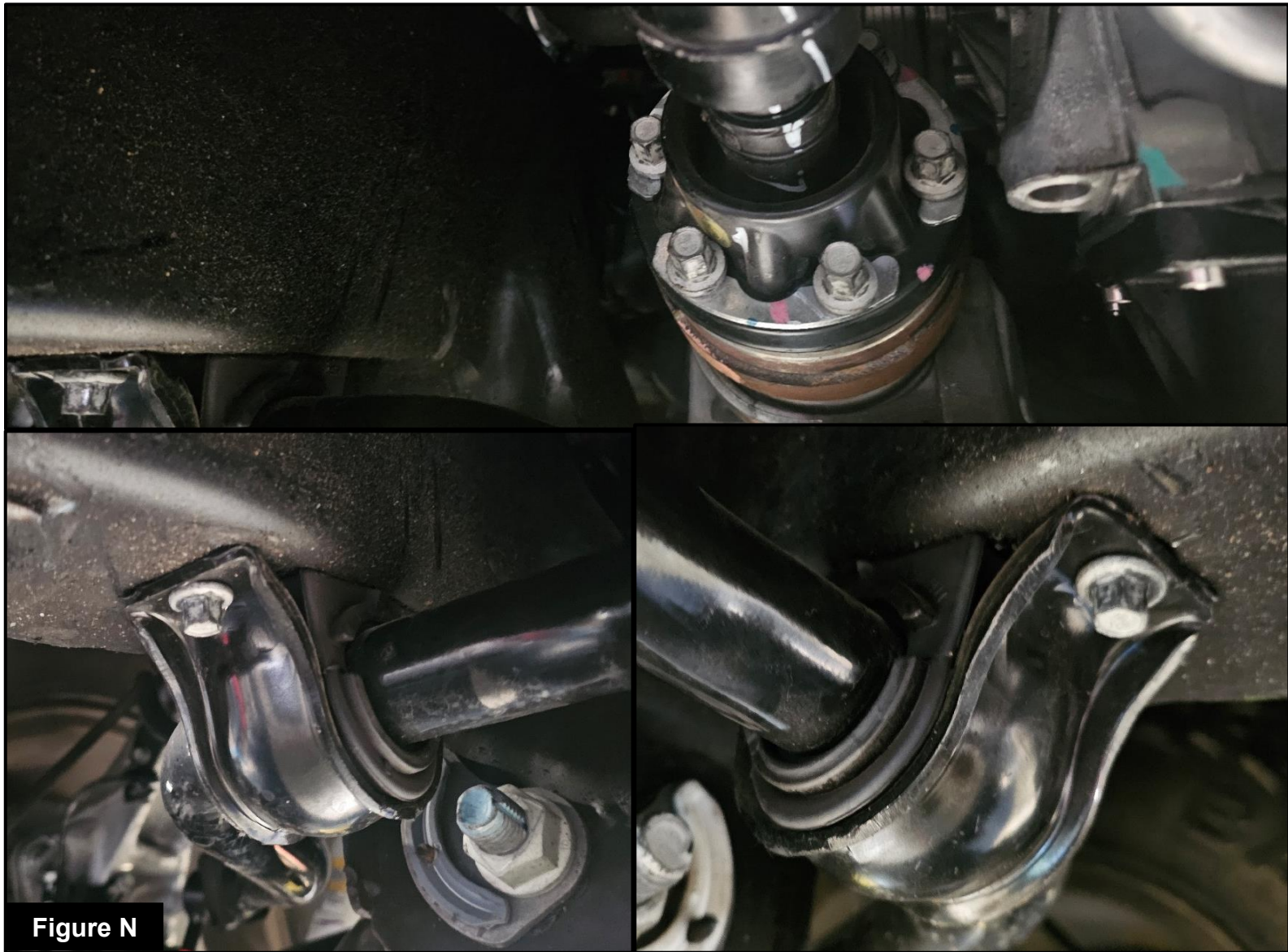


Figure N

Refer to Figure N for Steps 36-37

Step 36: Reconnect the front driveshaft to the front differential using the factory hardware. Torque to factory specifications.

Step 37: Reinstall the sway bar using the factory hardware. Torque to factory specifications.



Figure O

Refer to Figure O for Steps 38-39

Driver side Installation:

Step 38: Reinstall the coilover back into the truck using the factory hardware. Torque to factory specifications.

Step 39: Reattach the sway bar to the lower control arm using the factory hardware. Torque to factory specifications.



Figure P

Refer to Figure P for Steps 40-45

Step 40: Reinstall the knuckle onto the lower control arm while sliding the axle into the wheel bearing assembly and start the lower control nut. **Do not tighten yet.**

Step 41: Reattach the upper control arm to the knuckle. Torque to factory specifications.

Step 42: Install the new axle nut (not supplied) onto the axle. Torque to factory specifications.

Step 43: Reattach the ABS wire using the factory hardware. Torque to factory specifications.

Step 44: Reattach the brake caliper using the factory hardware. Torque to factory specifications.

Step 45: Reattach the brake pad wear sensor wire using the factory hardware. Torque to factory specifications.



Figure Q

Refer to Figure Q for Steps 46-51

Passenger side installation:

Step 46: Reinstall the knuckle onto the lower control arm while sliding the axle into the wheel bearing assembly and start the lower control nut. **Do not tighten yet.**

Step 47: Reattach the upper control arm to the knuckle. Torque both to factory specifications.

Step 48: Install the new axle nut (not supplied) onto the axle. Torque to factory specifications.

Step 49: Reattach the ABS wire using the factory hardware. Torque to factory specifications.

Step 50: Reattach the brake caliper using the factory hardware. Torque to factory specifications.

Step 51: Reattach the brake pad wear sensor wire using the factory hardware. Torque to factory specifications.



Figure R

Refer to Figure R for Steps 52-55

Step 52: Reinstall the tie rod ends onto the knuckle using the factory hardware. Torque to factory specifications.

Step 53: Double check all hardware and bolts are attached and tightened to factory specification.

Step 54: Reinstall the wheels using the factory hardware. Torque to factory specifications.

Step 55: Reinstall the skid plate (if applicable) using the factory hardware. Torque to factory specifications.

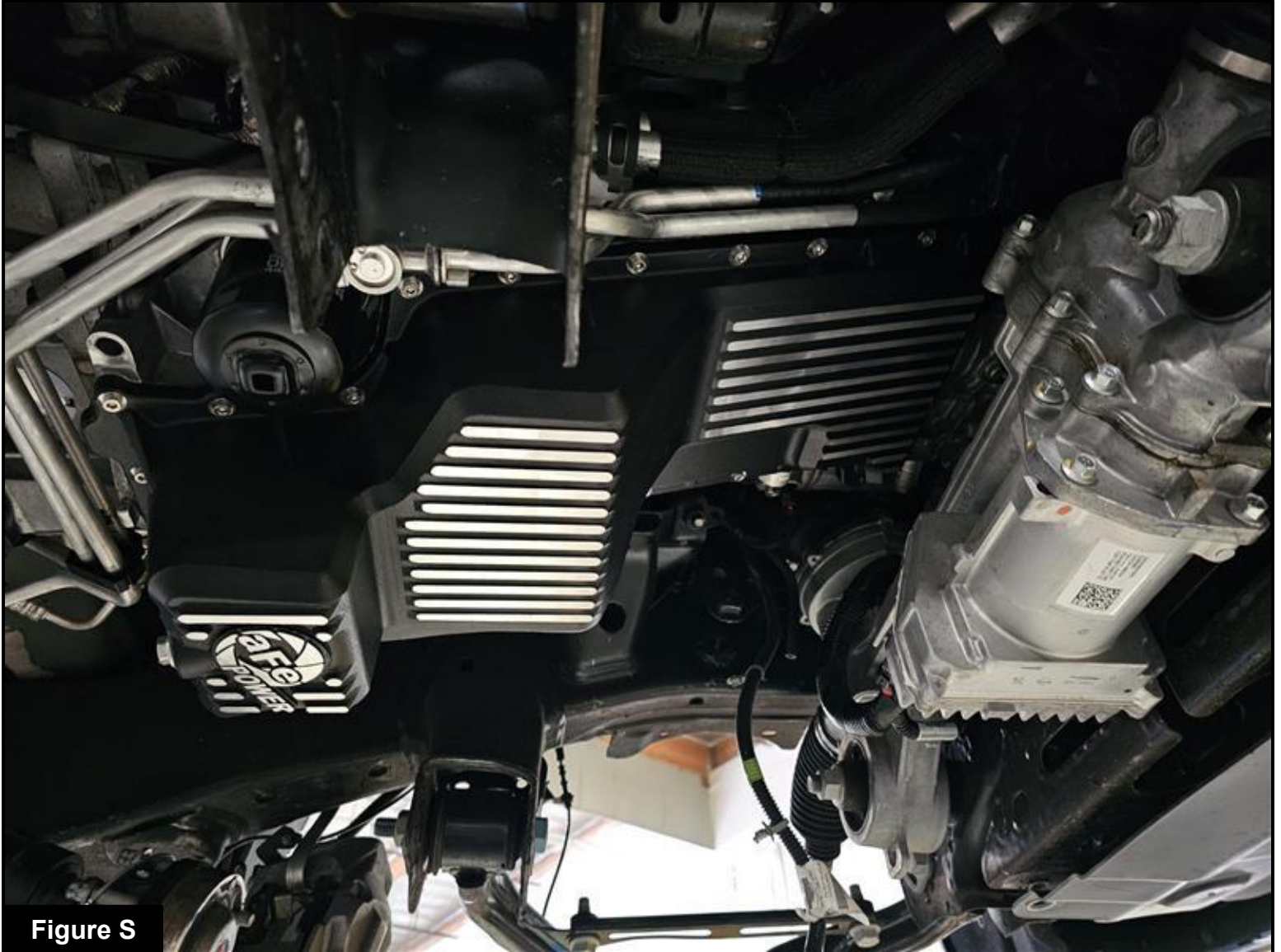


Figure S

Refer to Figure S for Steps 56-59

Step 56: Allow the silicone to set for 1 hour before filling with the vehicle manufacturer's recommended engine oil.

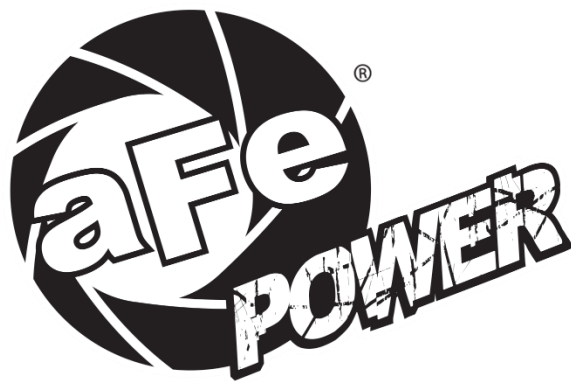
Step 57: Replace the oil filter (not supplied).

Step 58: Start the engine and check for leaks. Top off the oil as necessary.

Step 59: Installation is now complete.



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