

advanced FLOW engineering

Instruction Manual P/N: 46-71230A

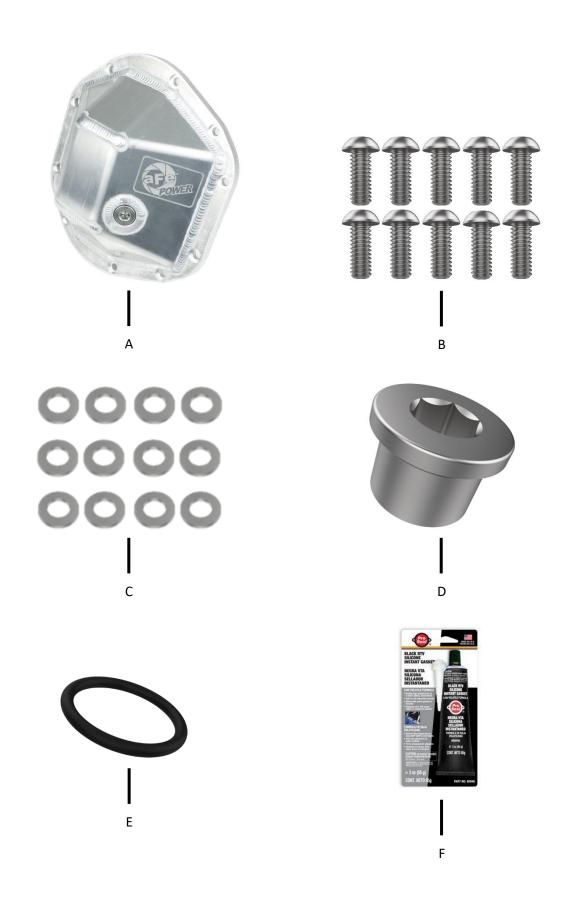
Dana 44 – 10 Bolt Differential Cover

Make: Jeep Model: Wrangler Year: 1997-2018



- Please read the entire instruction manual before proceeding.
 Ensure all components listed are present.
 If you are missing any of the components, call customer support at 951-493-7100.
 Ensure you have all necessary tools before proceeding.
 Ensure that your vehicle is cooled off before proceeding.
 Retain factory parts for future use.

Label	Qty.	Description	Part Number
Α	1	Differential Cover – Fabricated	05-61105A
В	10	Screw, Button Head 5/16-18 x 3/4"	03-50651
С	12	Washer, Flat	03-50228
D	1	Plug, M18x1.5	05-46018
Е	1	O-Ring, -016	03-50650
F	1	RTV Silicone, Black Instant Gasket	05-60096





- 1. Park your vehicle on a flat, dry surface. You will need to block the tires to prevent the vehicle from rolling.
- 2. Place a drain pan under the differential cover.
- 3. If applicable, disconnect the electric locker wire loom from the bracket.
- 4. Remove the **bottom** 9 bolts from the differential cover.
- 5. Loosen, but do not remove the top bolt. Break the seal on the cover and the gear oil will begin to drain.



- 6. Allow all of the gear oil to drain from the differential.
- 7. Remove the one (1) remaining bolt from the top of the differential cover.
- 8. Remove the OEM cover from the housing.

Note: If applicable, also remove the OEM gasket.



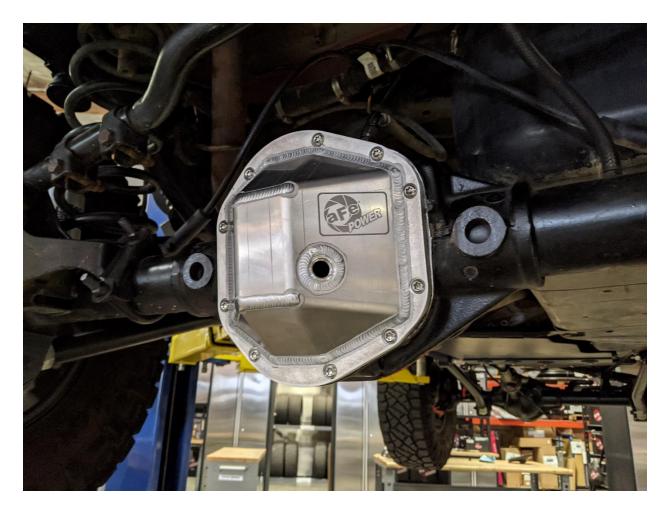
- 9. Use a clean, lint free shop towel to wipe down the remaining gear oil from the housing.
- 10. Clean off the sealing surface with a gasket scraper. Be careful not to gouge the surface while cleaning.
- 11. Check the surface of the housing for any irregularities. If there are any, carefully remove high spots using a smooth flat file.

Note: Do not "Round Off" the flat gasket surface.



- 12. Hold the supplied aFe differential cover up to the gasket surface to make sure you will be able to maneuver it into place easily.
- 13. Spread the supplied RTV silicone across the gasket surface. Be generous when spreading the silicone across the surface, ensuring to follow along the inside of all the bolt holes.

<u>Note: Before moving on, make sure that the silicone will completely seal with the gasket surface.</u>



- 14. Hold the aFe differential cover into position, aligning the screw holes. Install four (4) of the supplied $5/16-18 \times 3/4$ " button head screws and flat washers into separate sides of the cover to hold it in place.
- 15. If applicable, use two (2) $5/16-18 \times 3/4$ " button head screws and four (4) flat washers to secure the electric locker bracket in place. Reinstall the electric locker wire loom onto the bracket.
- 16. Continue installing the remaining $5/16-18 \times 3/4$ " button head screws and flat washers finger tight.
- 17. Torque the mounting screws to 12-16 ft.-lbs. in a crisscross pattern.



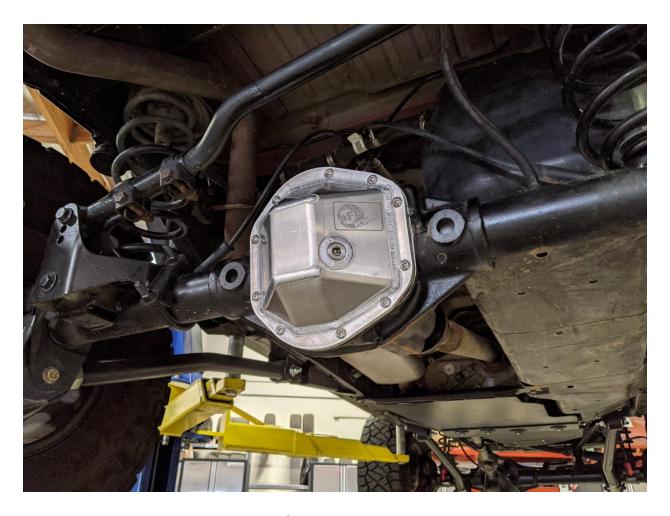
Note: Wait at least 30 minutes for the RTV silicone to dry before proceeding.

18. Fill the aFe differential cover using new gear oil. Fill until gear oil runs out of the M18 fill/level port on the side of the cover (about 1-1/2 quarts).

Note: If your vehicle is lifted and your axle has been rotated, you will have to verify you have the correct oil level for your vehicle.



19. Apply gear oil to the provided -016 O-Ring, then install it on the provided M18x1.5 plug.



- 20. Install the M18x1.5 plug into the fill/level port. Torque the plug to 15 ft.-lbs.
- 21. Your installation is complete.



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