

advanced FLOW engineering

Instruction Manual P/N: 46-70360 / 46-70362

AAM 9.5 - 14 Bolt Rear Differential Cover

Make: Nissan Model: Titan XD Year: 2016-2019 Engine: V8 5.0L (td) Cummins

Make: Nissan Model: Titan Year: 2016-2019 Engine: V8 5.6L



- 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
A1	1	Diff. Cover – Black, Machined Fins; Pro Series (46-70362)	05-60758B
A2	1	Diff. Cover – Raw, Machined Fins (46-70360)	05-60758A
В	1	Porthole View Gauge (Included in 46-70362)	03-50224
С	1	Plug, 3/4" -14 NPTF, 6" Deep Reach	03-50223
D	12	Socket Head Cap Screws, M8 x 1.25 x 30	03-50225
E	1	Plug, Hex Head Socket, 1/8" - 27 NPT (Zn Plt)	03-50029
F	14	Flat Washers	03-50228
G	2	Spacer, Aluminum: 5/8"OD x .319"ID x 1/4"L	03-50529
Н	1	Plug, 1"-11.5 NPT (included in kit 46-70360)	03-50390
I	2	Screw, Hex Socket: M8 x 1.25 x 40 (S/S)	03-50245
J	1	Plug, M12 x 1.25	03-50385
K	1	Washer, Aluminum: M12	03-50384

Installation will require the following tools:

Oil Drain Pan, 3/8" Drive Ratchet, 13mm Socket, 3/16" Allen Wrench, Gasket Scraper,10mm Socket, 3/8" Torque Wrench, 1/2" Torque Wrench, 6mm Allen Socket, 15mm Socket, 1/2" Drive Ratchet and hacksaw or cutoff tool.

Attention:

The aFe differential cover is designed to fit the factory axle supplied as original equipment. For some applications or due to the use of certain factory options and/or aftermarket products, there may be clearance issues with the aFe differential cover and other vehicle systems. It is the responsibility of the installer/vehicle owner to ensure that no other vehicle component come in contact with the aFe differential cover. Contact with any other vehicle component, or any modifications made to the aFe differential cover will automatically void the warranty. aFe assumes no liability, express or implied, for damage or injury to persons or property.





- 1. Park your truck on level ground and apply the parking brake.
- 2. Place a drain pan under the differential cover.
- 3. Using a 13mm socket with 3/8" drive ratchet, begin loosening the lower 7 bolts on the differential cover.
- 4. Loosen the upper 7 bolts to drain the old gear oil.

NOTE: You may need to use a gasket scraper so the fluid can start draining. If so, start at the bottom of the cover and carefully (so as not to gouge the housing metal) insert and pry off stock cover.



- 5. Remove all bolts and allow the last of the old gear oil to drain.
- 6. Using a clean, lint free rag, wipe down the remaining oil from the housing and gasket surface. This surface must be clean for the new gasket to seal.
- 7. Before installing the aFe differential cover, check the surface of the differential housing for any irregularities. Should there be any, carefully remove any high spots using a smooth flat file.

Note: DO NOT "ROUND OFF" THE FLAT GASKET SURFACE!



- 8. Apply Teflon tape on the threads of all the plug components before installing.
- 9. Install the M12 magnetic drain plug and washer into the bottom of the aFe differential cover and tighten.

When installing kit number 46-70360 only:

10. Install the large 1" NPT plug into the large hole on the side of the differential cover (not shown).

Note: Do not overtighten NPT plugs.



11. Lay your factory gasket onto the aFe differential cover and align bolt holes.



12. Install the aFe front differential cover by aligning the bolt holes and start one of the new 30mm socket head cap screws and washers in the top bolt hole. Ensure that gasket is properly aligned. Continue around the bolt pattern until all 12 screws and washers are installed and finger tight.



- 13. Use the 40mm long screws and spacers to secure the bracket at the top of the cover.
- 14. Using a 6mm hex bit and a 3/8 drive torque wrench, torque the socket head cap screws to 12 16 ft.-lbs. in a cross tight pattern.



15. Fill the aFe differential cover using new oil. Fill until the oil runs out of the 1/8" NPT plug of the side of the differential cover.

16. Install the 1/8" NPT plug in the side of the aFe differential cover.

Note: If your vehicle has been modified or lifted and your axle is rotated, you will need to check if you have the correct level of oil in the differential for your vehicle.

17. Install the 3/4" NPT 6" deep reach magnet into the top of the aFe differential cover and tighten.



18. Your installation is now complete.

Note: Retighten all connections after approximately 100-200 miles.

Warranty

General Terms:

- aFe warrants their products to be free from manufacturer's defects due to workmanship and material.
- This warranty applies only to the original purchaser of the product and is non-transferrable.
- Proof of purchase of the aFe product is required for all warranty claims.
- Warranty is valid provided aFe instructions for installation and/or cleaning were properly followed.
- Proper maintenance with regular inspections of product is required to insure warranty coverage.
- Damage due to improper installation, abuse, unauthorized repair or alteration is not warranted.
- Incidental or consequential damages or cost, including installation and removal of part, incurred due to failure of aFe product is not covered under this warranty.
- All warranty is limited to the repair and/or replacement of the aFe part. To request Return Goods Authorization ("RGA"), email RGA@afepower.com or call (951)493-7100. Upon receipt of the RGA, you must return the product to the address provided in the RGA, freight prepaid and accompanied with a dated proof of purchase and the RGA. Upon receipt of the defective product and upon verification of proof of purchase, aFe will either repair or replace the defective product within a reasonable time, not to exceed thirty days.

Product Category	P/N Prefix	Warranty Duration
Direct OE Replacement Filters	10,11,30,31,71,73	Life of the vehicle
Racing Filters	18	1 year
Universal	21,24,72	2 years
Air Intake Systems	50,51,54,55,75	2 years
Exhaust Systems	49	2 years
Intercoolers & Intercooler Tubes	46-2	2 years
Intake Manifolds	46-1	2 years
Differential Cover/Transmission Pan	46-7	Life of the vehicle
Exhaust Manifolds	46	2 years
Throttle Body Spacers	46-3	2 years
Fluid Filters	44	90 days
Pre-Filters	28	2 years
Heavy Duty OE Replacement	70	2 years
PowerSports OE Replacement	81,87	2 years
PowerSports Intake Systems	85	2 years

No other warranty expressed or implied applies nor is any person or advanced FLOW engineering authorized to assume any other warranty. Some States do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

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