



Rear Differential Cover

2023+ Chevrolet Colorado & GMC Canyon

Rear Differential Cover

Please visit www.aev-conversions.com to view the most current installation guide for this product.

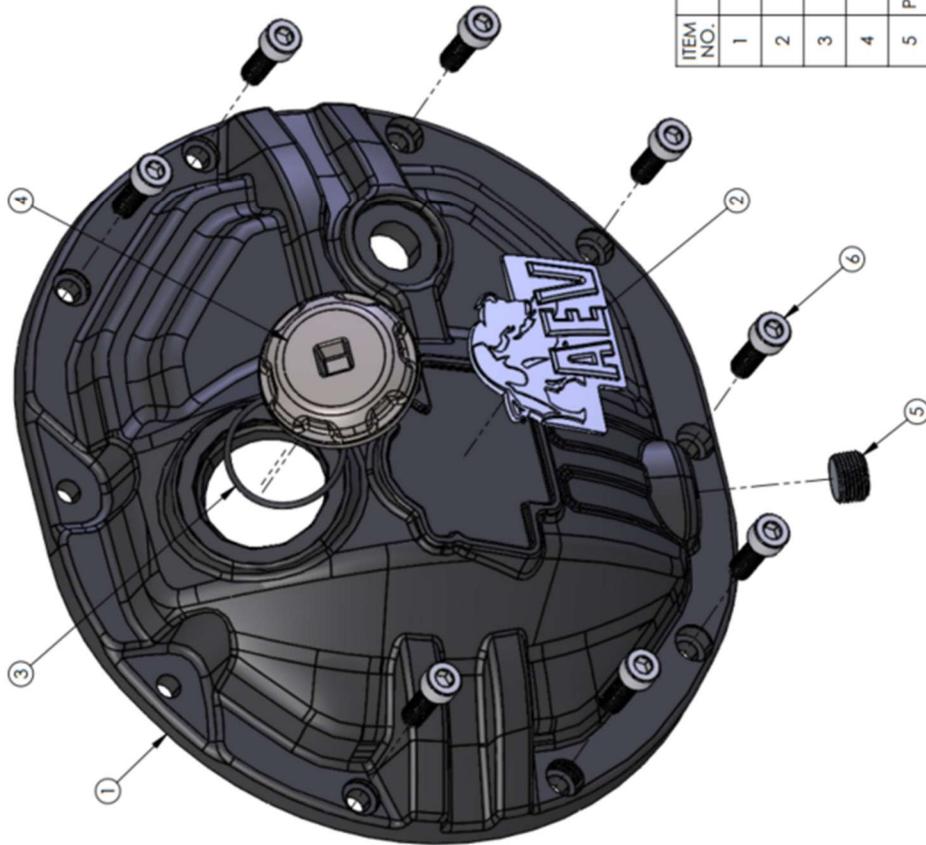
This is a new product and we want to make sure that you receive the latest and most accurate information based on customer feedback, product revisions, and/or model year updates. We value customer feedback, so we encourage you to contact our Technical Support department if you have any suggestions on how to make the installation of this product easier or if you have any questions regarding the installation of this product. AEV's Technical Support can be reached by email at tech@aev-conversions.com or by giving us a call at (248)-926-0256.



PLEASE READ BEFORE YOU START

To guarantee a quality installation, we recommend reading these instructions thoroughly before beginning any work. These instructions assume a certain amount of mechanical ability and are not written nor intended for someone not familiar with auto repair.

INCLUDED PARTS	QTY	REQUIRED TOOLS
Differential Cover	1	3/8" Socket Driver
Over-Size Fill Plug	1	M8-M15 Sockets
Hardware Kit	1	Common Hand Tools



ITEM NO.	PartNo	DESCRIPTION	QTY.
1	A32Z4000AA	REAR DIFF COVER - AS MACHINED, 31XX-2	1
2	60406074AA	BADGE, DIFFERENTIAL COVER (STANDARD)	1
3	P-AS586-223	O-RING, 1 5/8", DIFF COVER FILL PLUG	1
4	AJK1303AA	PLUG, DIFFERENTIAL COVER, FILL HOLE	1
5	P-37NPPA-PS5873B	PLUG, DIFFERENTIAL COVER, DRAIN, BLACK, 3/8"-18 NPT X 11mm	1
6	AEV91052AA	Bolt, SHCS, M8-1.25x25 - PS5873-Block	8

I. VEHICLE PREPARATION

1. Remove Differential Skid Plate from vehicle (fig. 1):
 - a. [2] U-bolts, [1] bracket with captured weldnuts, & [6] M10 bolts hold diff skid to axle housing of vehicle.

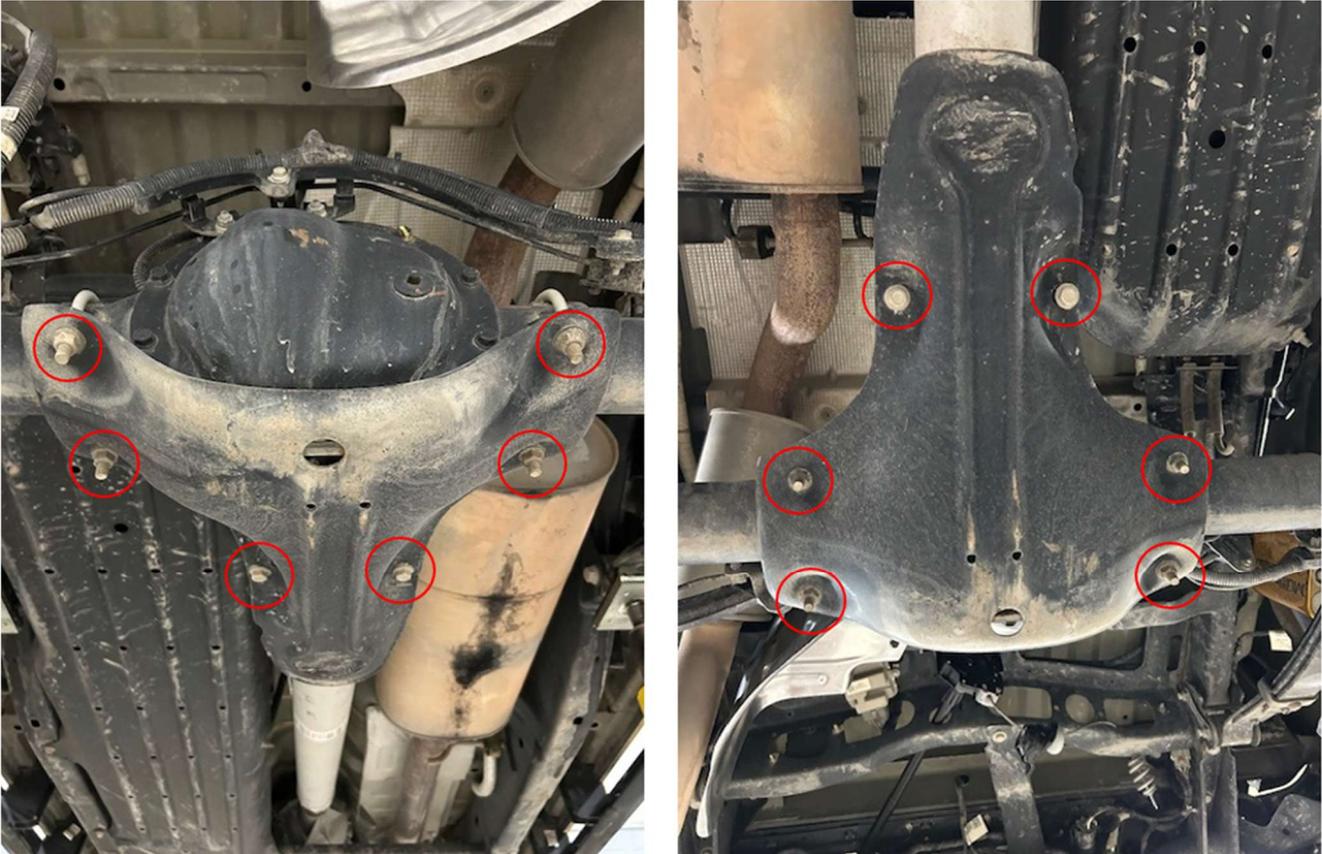


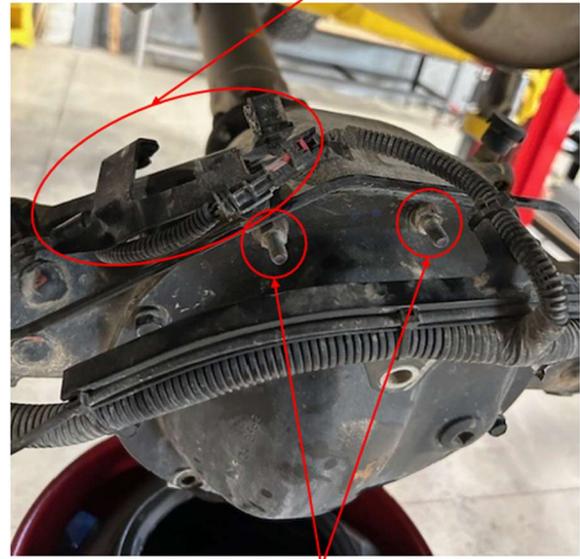
Figure 1

2. Remove Differential Cover (fig. 2).
 - a. Check Oil level by breaking fill plug with 3/8" socket drive
 - b. Carefully disassemble harness bracket sitting on top of factory differential cover and move harness/line until it does not interfere with removal of differential cover. Save harness hardware for later re-install.
 - c. Plan to capture fluid by carefully loosening bottom row of bolts from differential cover to ease flow into safe collection.
 - d. Let fluid drain fully before removing differential cover.

Harness bracket hardware (SAVE) Fill Plug



Harness Bracket Re-Positioned



Re-Use M8 double-ended studs

Figure 2

3. SAVE/Discard factory seal (fig. 3)

- a. No sign of oil seepage, under 30,000mi use, gasket is safe for re-use



Figure 3

II. DIFF COVER PREPARATION & ASSEMBLY

4. Apply AEV badge to surface of differential cover (fig. 4)
 - a. PRO TIP: Clean surface of badge area before adhering

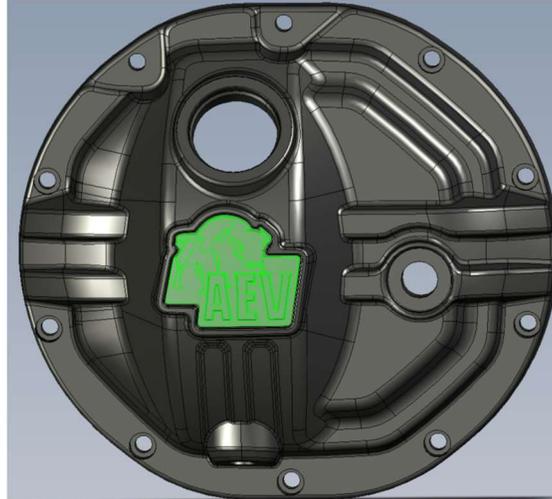
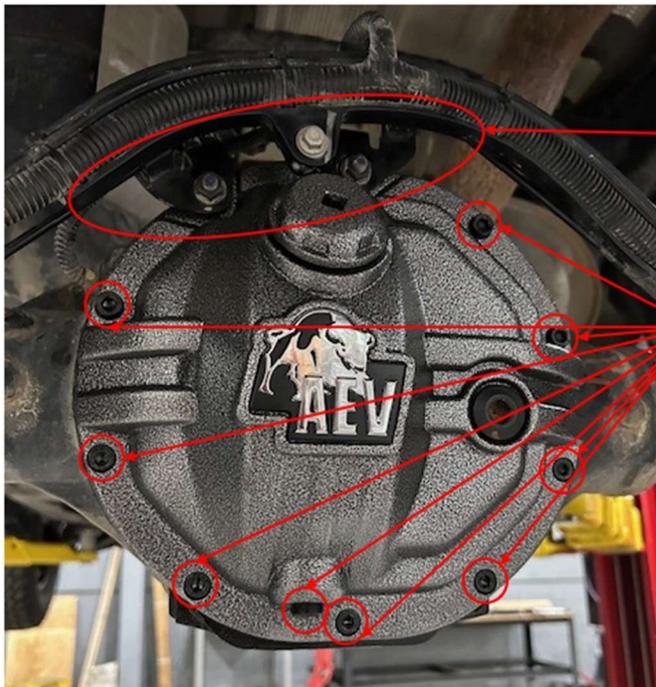


Figure 4

5. Install 3/8"-18 NPT Drain plug until minimum 3 threads of engagement
6. Using M8 Socket Head Cap Screws (provided) + M8 double-ended studs (re-used 2a) + gasket (GM service PN 85721785), install AEV Differential Cover in factory position (fig.5)
 - a. Tighten bolts to 23 Nm or 18 FT-LBS



Reverse Steps 2a. Utilizing same hardware.

AEV provided hardware

85721785 Gasket behind



Figure 5

III. RE-FILL & CLOSEOUT

7. With factory fill-level plug and AEV fill plug not assembled, pour SAE 75W-90 fluid into gear housing through AEV oversized fill hole. Stop when fluid drains from fill-level hole and tighten factory fill-level plug with 3/8" Socket (fig 6)

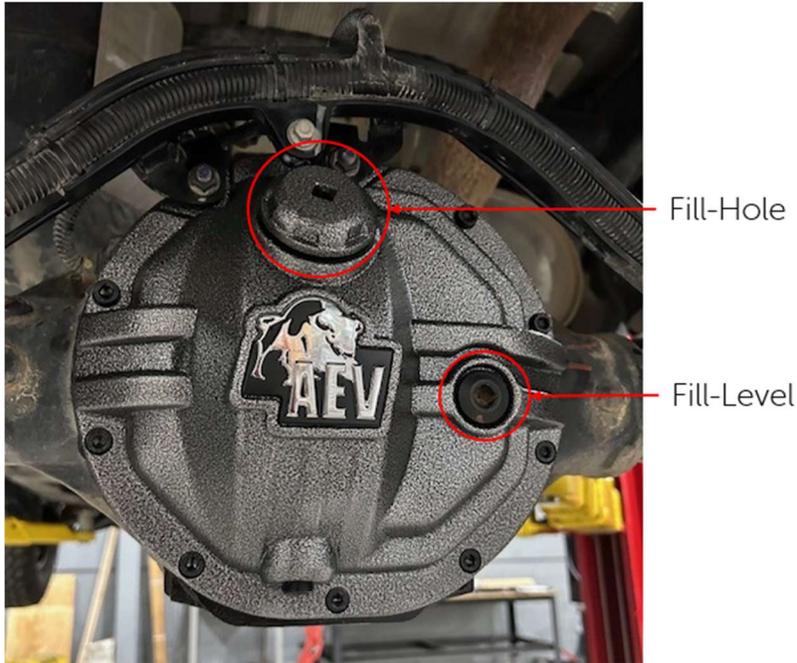


Figure 6

8. Assemble O-Ring onto AEV fill plug and tighten plug through fill-hole of diff cover until snug (fig 7)



Figure 7

9. Re-Assemble AEV Differential Skid Plate reversing step 1.

- a. [2] U-bolts, [1] bracket with captured weldnuts, & [6] M10 bolts hold diff skid to axle housing of vehicle.
- b. Place U-bolts over differential as shown (fig 8)



Figure 8

- c. Align AEV Rear Differential Skid to U-bolts and loosely tighten [4] M10 Nuts
 - i. Make sure to even tighten U-bolts, allowing three rotations of thread on either side of protruding from nut.
- d. Align Clamp A32P0192AA with bolts facing rear of the vehicle with contact to metal, not to the gasket. Loosely tighten M10 bolts (fig 9)



Figure 9

- e. Tighten bolts to 55Nm or 42 FT/LBS