



# DIFFERENTIAL COVER

FOR FORD BRONCO  
M220 REAR AXLE

AEV30458AA

Last Updated: 10/31/22

INSTALLATION GUIDE



## **PLEASE READ BEFORE YOU START**

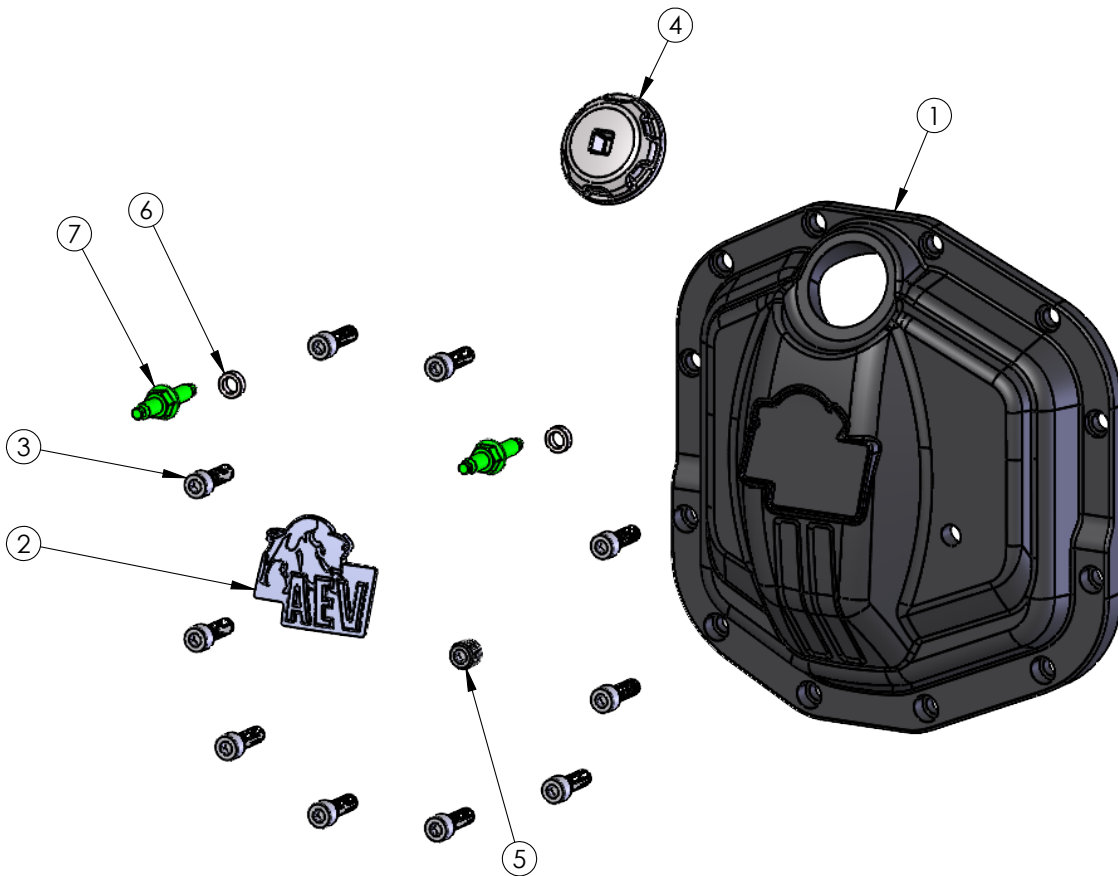
To guarantee a quality installation, we recommend reading these instructions thoroughly before beginning any work. These instructions assume a certain amount of mechanical ability and are not written nor intended for someone not familiar with auto repair.

### **CAUTION**

The adhesive properties of the AEV Bison badge is very strong. Once the protective cover is removed from the back side of the badge and it is placed on an object, it will not come off without permanently damaging it and/or the surface it comes in contact with.

### **CAUTION**

The AEV logo badge is resistant to most petroleum based oils, greases and aliphatic solvents and resistant to mild acids, alkalis and salt solutions. However, AEV recommends cleaning the AEV logo badge and surrounding area after any contact with the above mentioned materials immediately. To clean, use warm soapy water and a non-abrasive sponge, rinse with low pressure water. Use of a high pressure sprayer is not recommended in this area closer than 5 feet.



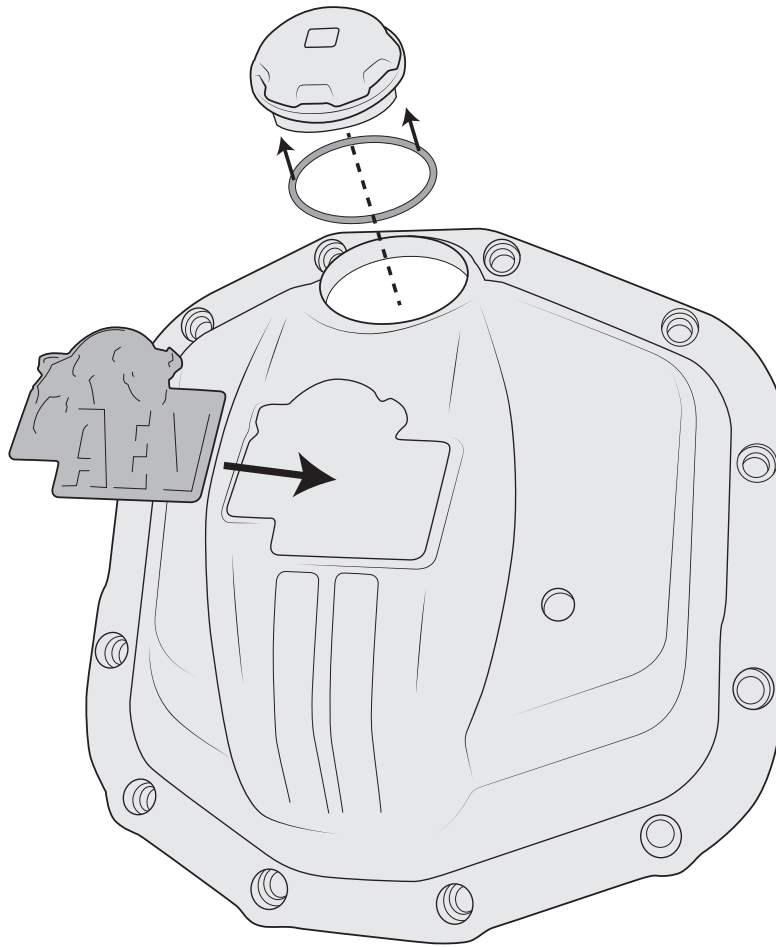
ITEM NO.	PartNo	DESCRIPTION	QTY.
1	AJLZ1000AA-M	CASTING, M220 DIFF, COVER	1
2	60406074AA	BADGE, DIFFERENTIAL COVER (STANDARD)	1
3	AEV91052AA	M8 X 1.25 X 25 SHCS, BLACK	10
4	AJKZ1303AA	CASTING, DIFF COVER PLUG	1
5	P-25NPPA/PS587	PLUG, 1/4"-18 NPT	1
6	AEV99216AA	Spacer, 13 mm OD, 4 mm Long, for M8 Screw Size 8.5 ID	2
7	11610142	M8 X 1.25 DOUBLE ENDED STUD, 20 & 29 LENGTH	2

NOT SHOWN:

P-AS586-223

O-RING, 1 5/8", DIFFERENTIAL FILL PLUG

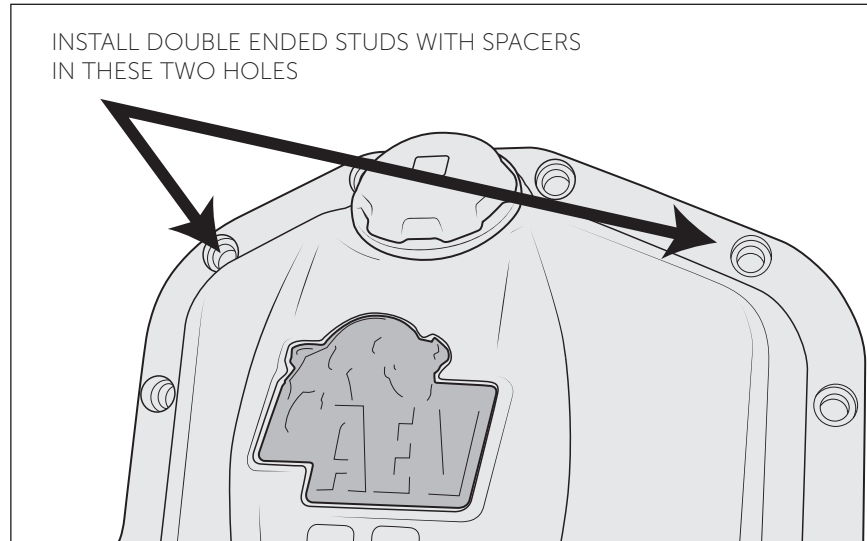
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1. Preparation of AEV differential cover and AEV badge installation (read all cautions and installation steps prior to starting).
  - A. Differential cover ambient temperature should be around 70°F ( $\pm 5^\circ\text{F}$ ) for 24 hrs prior to this process.
  - B. Clean the badge pocket area thoroughly with the provided alcohol swab and let air dry.
  - C. Remove AEV badge from bag and remove backing cover from the back side of the badge.
  - D. Align the AEV badge into the desired position and press on. (Caution: this is a one-time only action).
  - E. Once the badge is in place apply 30 lbs of pressure for 30 seconds.
2. Drain oil from differential housing per the vehicle's operator's manual and recycle the used oil.
3. Reinstall drain plug and tighten per owner's manual.
4. Remove OEM differential cover per owner's manual and discard.
5. Ensure the differential cover and surface area of the axle housing are completely dry and free from any contaminants prior to installation.



- Place the new differential cover and factory gasket in the correct orientation. Install 10 socket head cap screws and 2 double ended studs with spacers (in holes shown) finger tight and then tighten in a criss-cross fashion to 18–22 ft. lbs.



- Reinstall factory brake line clips onto double ended studs.
- Fill the differential through upper fill hole until oil comes out of the appropriate fill level hole.

### CAUTION

All oil quantities should match the operator's manual recommended amounts and weights. Always service differentials on flat level ground with wheels chocked.

- Insert the AEV provided fill level plug with thread tape into the new differential cover and secure.
- Lubricate and install the AEV provided O-Ring onto the AEV fill plug and install into the differential cover and secure by torquing to 25 ft. lbs.
- Preform leak checks and fluid levels at regular intervals.

NOTE: AEV recommends using a RUST-OLEUM type automotive Scratch & Chip Repair paint (Universal Flat Black & Silver Satin) to preform minor repairs on chips and scratches that occur during off-road driving. Remove existing rust and apply paint as recommended by the manufacturer in the affected area to prevent any additional corrosion or chipping.