



AEV Camera Relocation

FOR 2023+ Super Duty

NEW PRODUCT

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

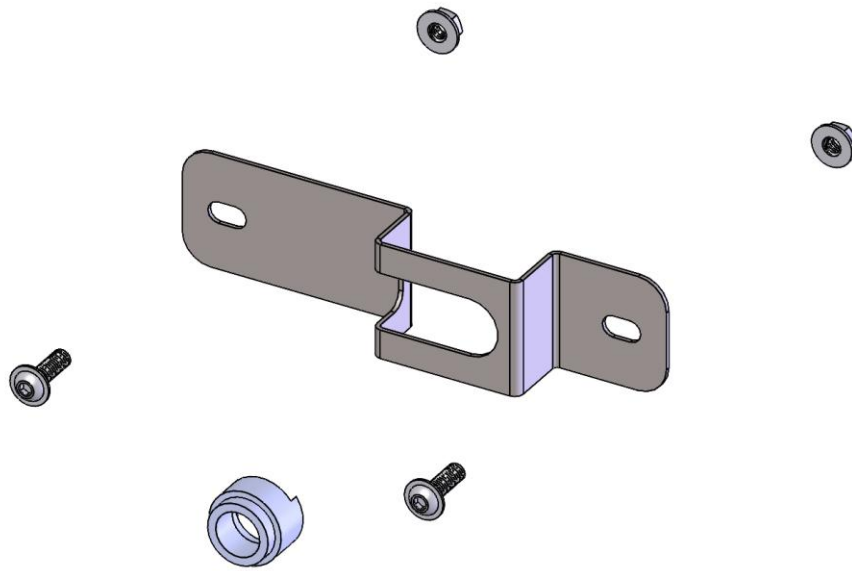
This is a new product and we want to make sure that you receive the latest and most accurate information based on customer feedback, product revisions, and/or model year updates. We value customer feedback, so we encourage you to contact our Technical Support department if you have any suggestions on 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
Camera Bracket	1	T15 Bit
Camera Spacer	1	¼ wrench
Hardware Kit	1	M10 Socket
Wire Harness	1	Plastic Pry Tools
AEV Camera Badge	1	Extra Zip Ties
Plastic Plug	1	Common Hand Tools



Item No.	Part No.	Description	QTY.
1	FD5B1019AB	Ford Camera Bracket	1
2	FD5B1034AC	Ford Camera Spacer	1
3	AEV91055AA	M6-1 x 20 Button Head (Black)	2
4	AEV93027AA	M6-1 Flange Nut	2
	30302101AA	Camera Relocation Wire Harness Extention	1
	60406217AA	AEV Camera Badge	1
	P-85985K73	5/8" plastic plug	1



I. VEHICLE PREPARATION

1. Camera relocation requires the AEV front bumper. This installation can be done before or after installing the AEV front bumper. The ford grill can be removed from the vehicle even with AEV front bumper, AEV 7000 Series Lights, and AEV Flares.
 - A. Please note that if you have a winch installed in the AEV front bumper, it will help to let some of the winch line out to gain better access into the bumper if installing the camera relocation while on vehicle.
 - B. It is recommended, but not required, to install this while installing the AEV front bumper. Please start with AEV front bumper installation until you reach the step directing you back to this installation guide.
 - C. AEV installation images will follow as if they are not mounted to the vehicle. All steps can be replicated while mounted on the vehicle.
2. Open the Engine Bay.
3. Pop up the 14 clips holding the radiator plastic shroud, using a pry tool. Make sure to preserve these for reinstallation. Pull off and set aside for reinstallation.



Figure 1



4. Remove 4 10mm bolts and two Christmas trees (using a pry tool) from the lower plastic shroud. Preserve these for reinstallation. The grill is now loose within the engine bay. Move forward to the front grill mount points.



Figure 2



5. Remove front bolt covers from the RH and LH sides of the grill, preserve for reinstallation.



Figure 3

6. Remove the 10mm bolt on each side that was covered by the plastic. Preserve for reinstallation.



Figure 4



7. Remove the grill. Be careful while detaching around the headlights. The clip towers are molded into the head light, if they snap off, the entire head light will need to be replaced. If they snap off, the grill will rattle and not be secure in place once reinstalled. We recommend carefully using plastic pry tools to get as much even leverage as possible.
 - A. There are 8 clip towers per head light, ensure to keep the clip towers intact while removing



Figure 5



- B. There are an additional 3 center clip/lift tabs that hold the lower section of the grill on.



Figure 6

8. Grill should now be free, detach the wire harness connecting the camera and set grill aside for camera removal.
 - A. Due to space issues within the AEV bumper, if your camera includes a camera washer, this will not be relocated. Make sure to detach front window temporarily so the grill comes off cleanly.
9. Detach center beam zip tie holding on the OEM camera wire harness to allow for better routing once AEV camera relocation wire harness extension is installed.



10. Remove the three bolts that hold the camera in place.



Figure 7

11. Remove and set the camera aside.

12. Reinstall plastic shroud to the grill.



II. Camera Installation into AEV Front Bumper

13. Place Camera within the plastic camera spacer supplied by AEV. Make sure the camera's edge is sitting flush with the spacer.
14. Place camera and spacer within the camera hole within the AEV front bumper.
 - A. Ensure the camera connector tail is facing the right-hand side of the vehicle.

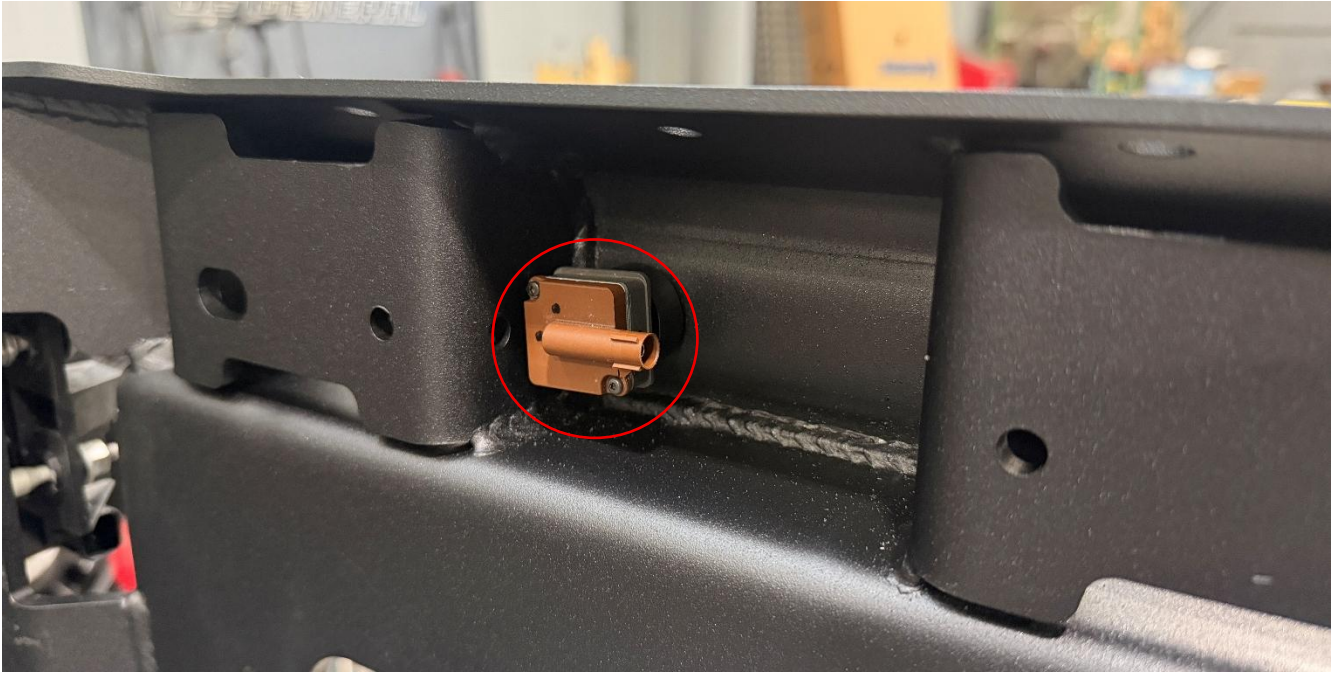


Figure 8



15. Attach AEV supplied Camera relocation wire harness extension to the camera. Feeding through the bracket on its side.

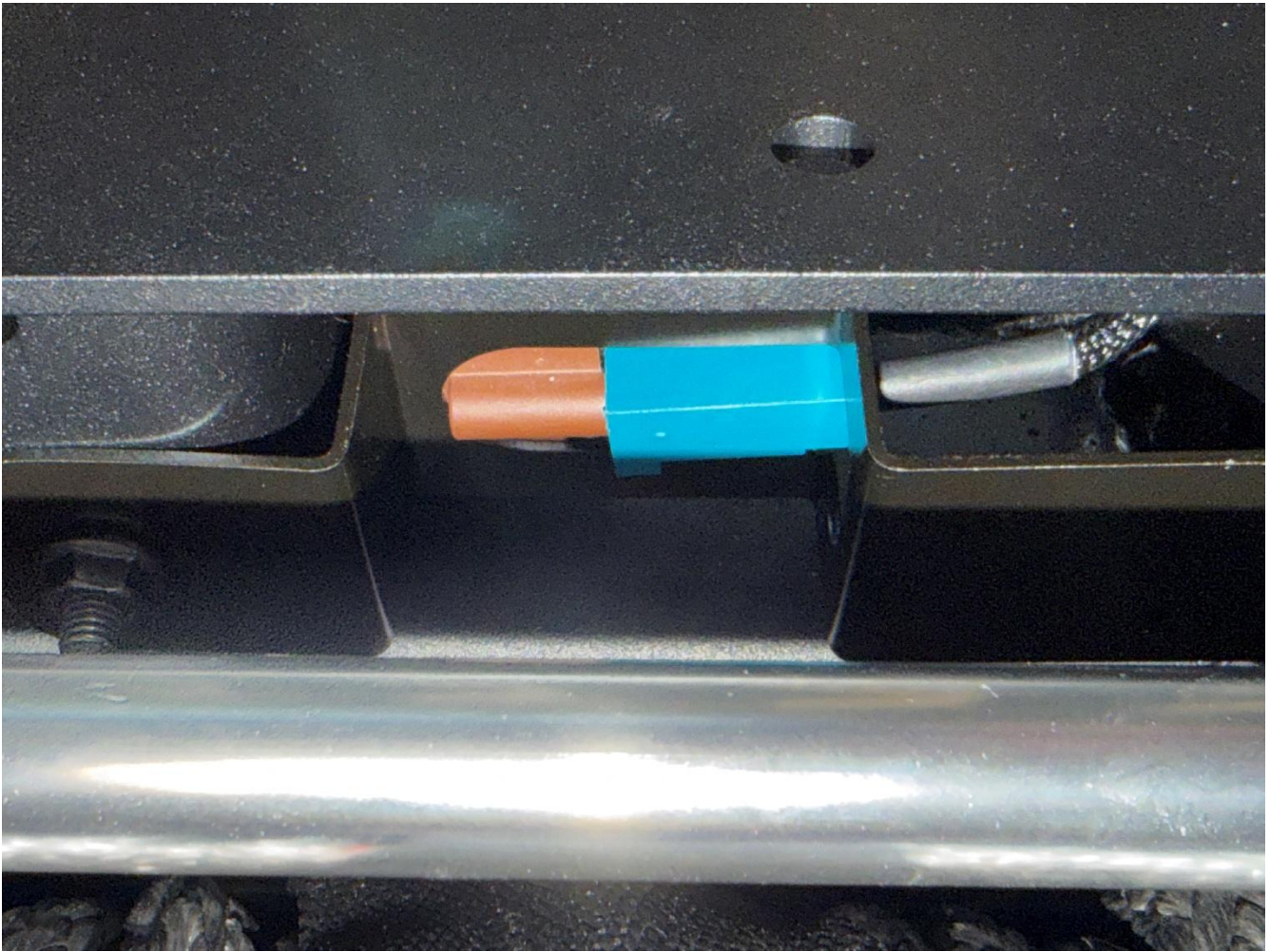


Figure 9



16. Install AEV supplied camera bracket over the camera to hold in place.

A. Bolt bracket on utilizing the 2 provided M6 nuts and bolts.

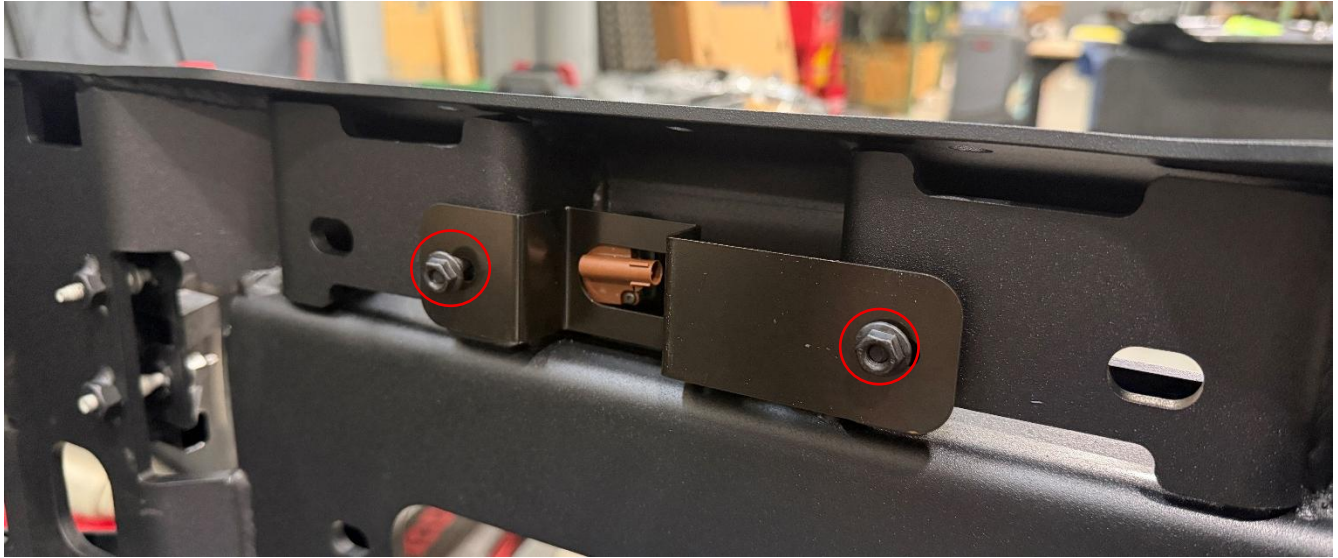


Figure 10

17. If you are currently installing the AEV front bumper, continue with those directions until your bumper is fastened to the vehicle.



III. Camera Relocation Wiring

18. Follow wiring route and attachment points within figures 11-12 below



Figure 11



Figure 12

19. Attach camera relocation wire harness extension to the OEM camera wire harness.



IV. Reinstall OEM Grill and plastic shroud

20. Snap grill back in place.
21. Place AEV supplied plastic plug to cover OEM camera hole.
22. Follow steps 2-10 in reverse order to reinstall grill.

V. Camera testing and alignment

23. With your vehicle on the ground, safely turn on the 360 camera and adjust the camera as needed to get an even picture. Due to this relocation your image will look slightly different than before as the perspective has changed.
 - A. Exercise caution while utilizing the front camera.