



INSTALLATION INSTRUCTIONS

APPLICATION: SPORTSMAN GRILLE GUARD
2014 JEEP GRAND CHEROKEE
PART # 40-3815 & 45-3810

SIGNATURE OF QUALITY

AUTOMOTIVE PRODUCTS, INC.

ITEM	QUANTITY	DESCRIPTION	TOOLS NEEDED
1	1	SPORTSMAN GRILLE GUARD ASSEMBLY	RATCHET
2,3	2	LOWER MOUNTING BRACKETS—DRIVER & PASSENGER	10MM SOCKET
4,5	2	UPPER SUPPORT STRAPS—DRIVER & PASSENGER	12MM SOCKET
5	4	M12 BUTTON HEAD BOLT (STAINLESS)	16MM SOCKET
6	4	M12 FLANGE NUT (STAINLESS)	18MM SOCKET
7	4	M12 CUPPED WASHER (STAINLESS)	ALLEN WRENCH
8	2	M8 BUTTON HEAD BOLT (STAINLESS)	TORQUE WRENCH
9	2	M8 HEX NUT (STAINLESS)	FLAT HEAD SCREWDRIVER
10	2	M8 CUPPED WASHER (STAINLESS)	
11	2	M8 LOCK WASHER (STAINLESS)	
12	2	M8 FLAT WASHER (STAINLESS)	
13	4	M10 HEX BOLT (YELLOW ZINC)	
14	4	M10 LOCK WASHER (YELLOW ZINC)	
15	4	M10 FLAT WASHER (YELLOW ZINC)	
16	2	M8 FLAT WASHER (YELLOW ZINC)	

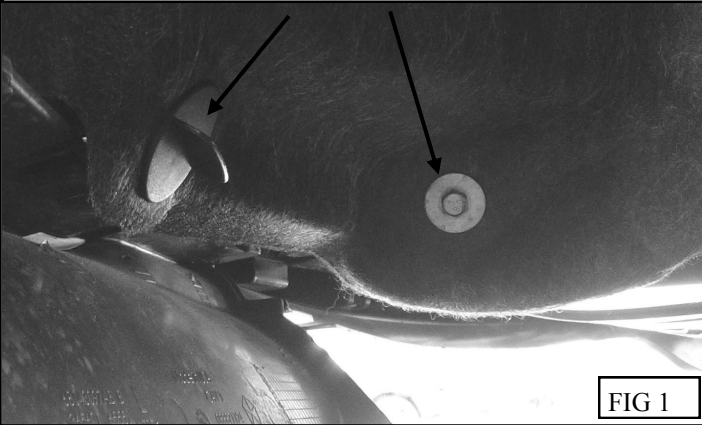
ANTI-SEIZE LUBRICANT MUST BE USED ON ALL STAINLESS STEEL FASTENERS TO PREVENT THREAD DAMAGE AND GALLING

1. Remove all contents from box, verify all parts listed are present and free from damage. Carefully read all instructions before attempting installation.
2. From beneath the vehicle gain access to the rear of the tow hook pockets by removing the plastic twist knobs and M6 bolts as shown in Figure 1.
3. **Vehicles with factory tow hooks:** Remove the tow hooks by unscrewing the small bolts from the front of the hook and the large nut from the rear of the hook. Once the hook has been pulled through the front of the tow hook pocket the tow hook mounting bracket may be taken off by removing the two M10 bolts holding it in place. Refer to Figures 2 & 3. Note: The factory tow hooks cannot be re-used.
4. **Vehicles without factory tow hooks:** Remove the plastic tow hook pocket covers by carefully prying on them with a flat head screwdriver as shown in Figure 4.
5. Place the Lower Mounting Brackets into the tow hook pockets. Loosely attach the brackets to the threaded holes in the vehicle's undercarriage using the supplied M10 Yellow Zinc hardware. Refer to Figure 5. Note: It is recommended to install the front fasteners through the front of the tow hook pocket and the rear fasteners from the rear of the tow hook pocket.
6. Open the hood of the vehicle. Remove the appropriate M6 fasteners from the radiator support. Use the M8 flat washer as a shim and slip the Upper Support Straps beneath the plastic cover. Loosely attach the straps using the factory M6 hardware. Refer to Figure 6.



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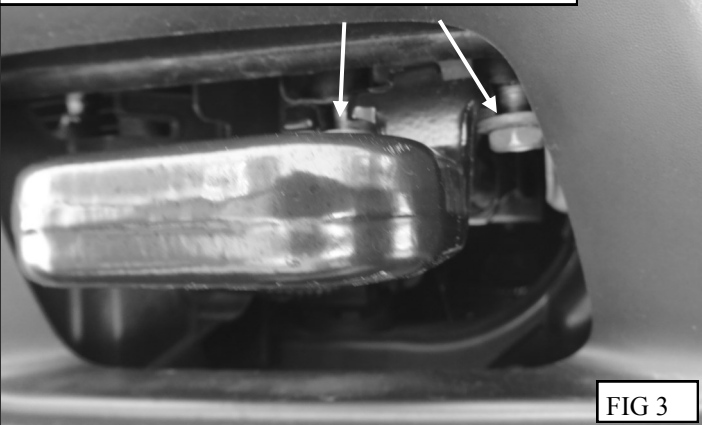
Remove the plastic twist knob and M6 bolt to access the rear of the tow hook pockets (Driver side shown).



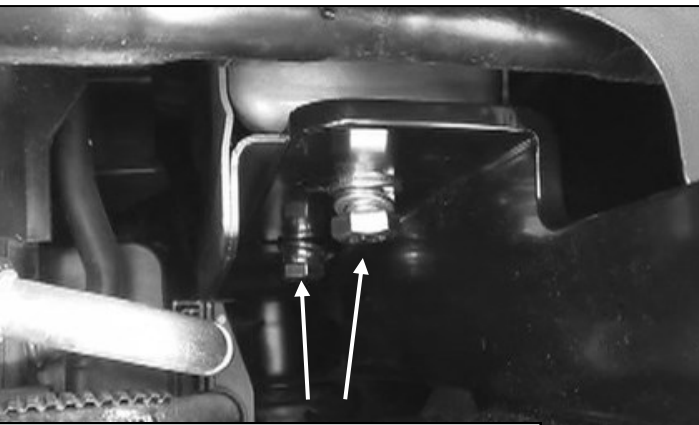
Remove the large nut from the rear of the tow hook (Driver side shown).



Remove the small bolts from the front of the tow hook (Driver side shown).

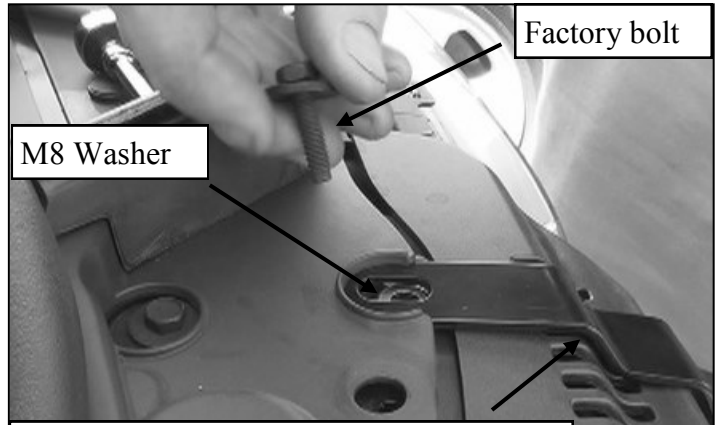


Carefully pry off the tow hook pocket covers with a flathead screwdriver.



Loosely install the Lower Mounting Brackets using the supplied M10 hardware (Driver side shown).

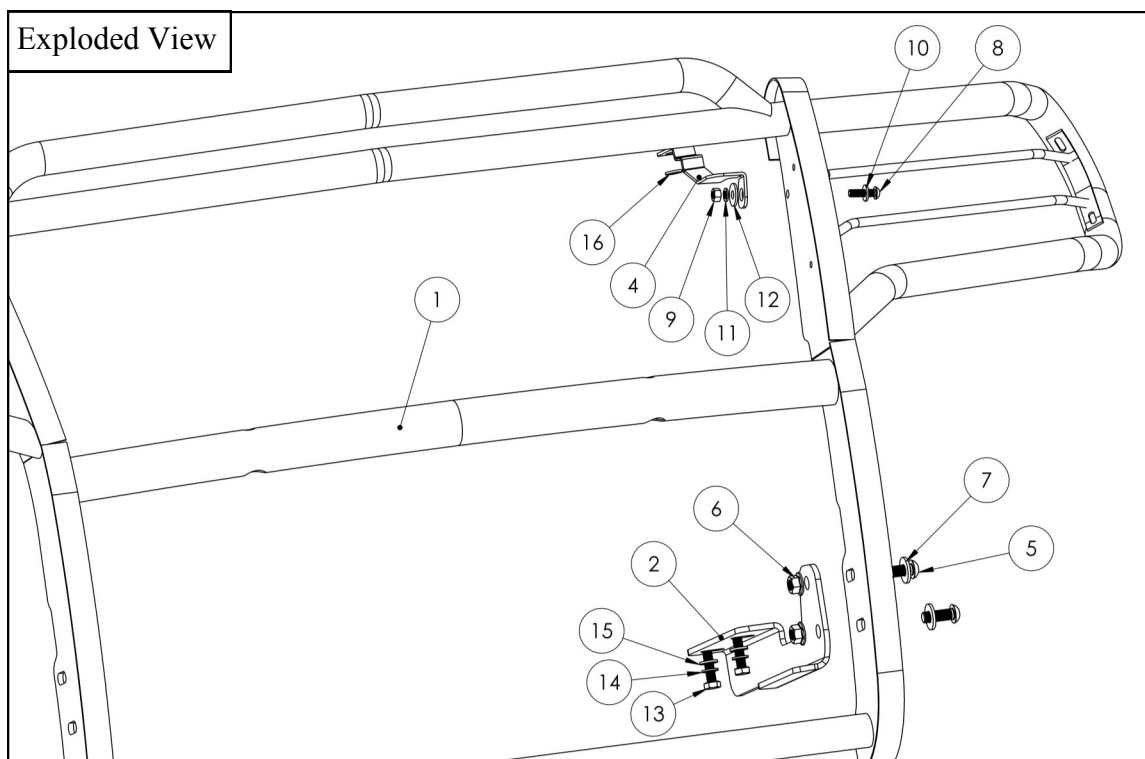
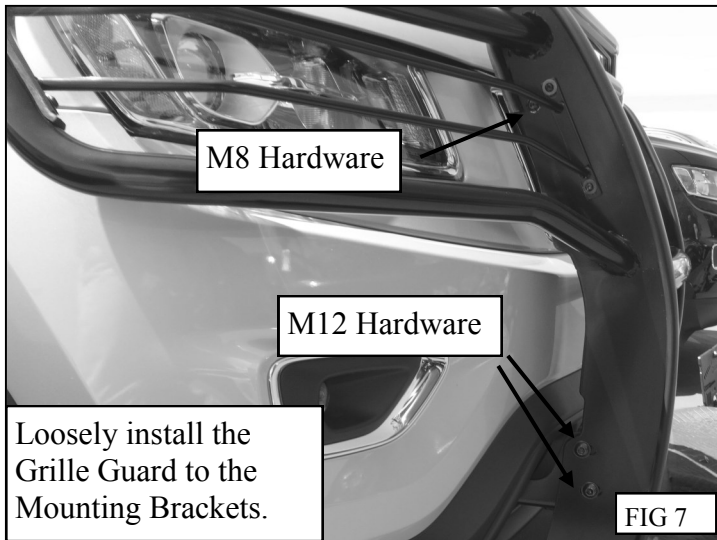
FIG 5



Install the Upper Support Straps as shown using the factory M6 hardware (Driver side shown).

FIG 6

7. With assistance loosely attach the Grille Guard to the Lower Mounting Brackets using the supplied M12 hardware. Loosely attach the Grille Guard to the Upper Support Straps using the supplied M8 hardware. Refer to Figure 7.
8. Align and adjust the Grille Guard as necessary then tighten and torque all hardware as follows: M8 to 15-18 ft-lbs.; M10 to 30-35 ft-lbs. M12 to 50-55 ft-lbs.



CARE INSTRUCTIONS:

- REGULAR WAXING IS RECOMMENDED. DO NOT USE ANY TYPE OF POLISH OR WAX THAT MAY CONTAIN ABRASIVES.
- STAINLESS STEEL PRODUCTS CAN BE CLEANED WITH MILD SOAP AND WATER. STAINLESS STEEL POLISH SHOULD BE USED TO POLISH SMALL SCRATCHES.
- GLOSS BLACK FINISHES SHOULD BE CLEANED WITH MILD SOAP AND WATER.



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