



INSTALLATION INSTRUCTIONS

APPLICATION: SPORTSMAN GRILLE GUARD / 2011 - 2013 JEEP GRAND CHEROKEE
APP PART # 40-3645, 45-3640

AUTOMOTIVE PRODUCTS, INC.

ITEM	QUANTITY	DESCRIPTION	TOOLS NEEDED
1	1	GRILLE GUARD	TORQUE WRENCH
2	1	LOWER MOUNTING BRACKET (DRIVERS SIDE)	RATCHET
3	1	LOWER MOUNTING BRACKET (PASSENGER SIDE)	18MM WRENCH
4	1	UPPER MOUNTING BRACKET (DRIVERS SIDE)	18MM SOCKET
5	1	UPPER MOUNTING BRACKET (PASSENGER SIDE)	10MM SOCKET
6	6	M12 HEX HEAD BOLTS (STAINLESS)	16MM SOCKET
7	12	M12 FLAT WASHERS (STAINLESS)	16MM WRENCH
8	6	M12 LOCK WASHER (STAINLESS)	
9	6	M12 HEX NUTS (STAINLESS)	
10	2	M10 BUTTON HEAD BOLTS (STAINLESS)	
11	4	M10 HEX HEAD BOLTS (YELLOW ZINC)	
12	4	M10 LARGE FLAT WASHERS (YELLOW ZINC)	
13	4	M10 FLAT WASHERS (STAINLESS)	
14	4	M10 LOCK WASHERS (YELLOW ZINC)	
15	2	M10 NYLOCK NUTS (STAINLESS)	
16	4	M6 FLAT WASHERS (YELLOW ZINC)	
17	1	BLACK FOAM TAPE	

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

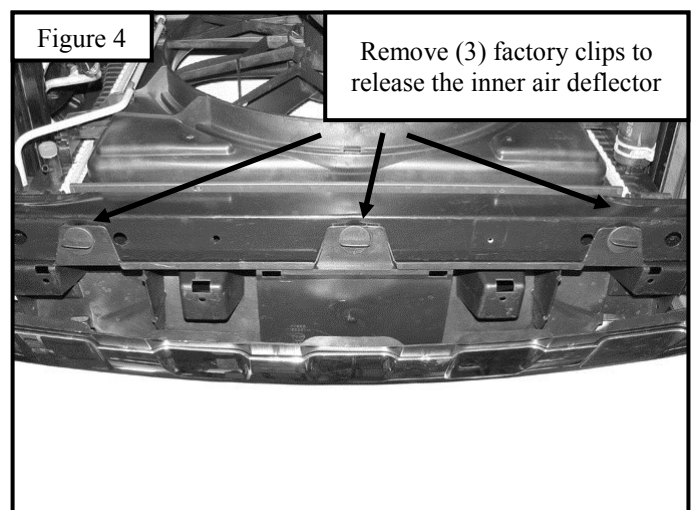
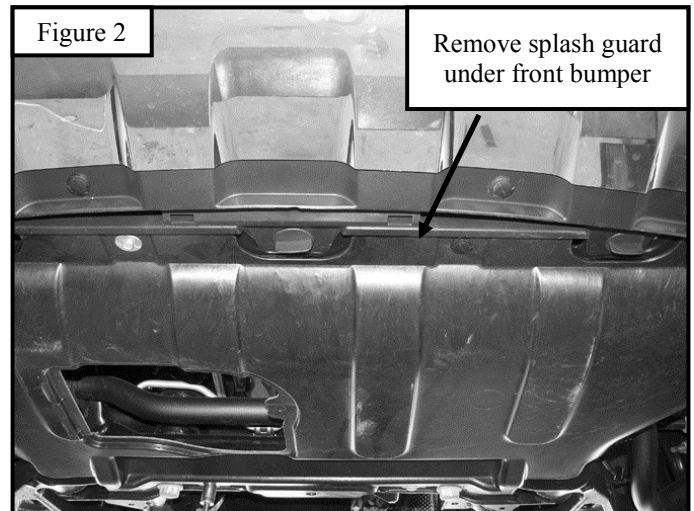
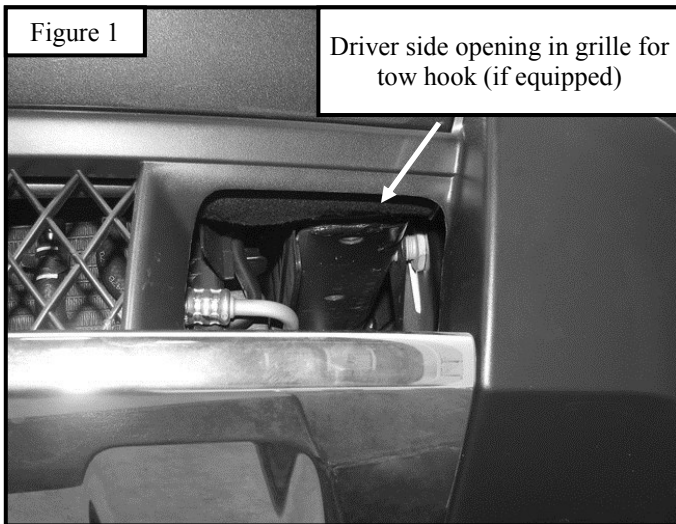
1. Remove all contents from box, verify all parts listed are present and free from damage. Carefully read and understand all instructions before attempting installation.
2. Determine if the vehicle is equipped with or without factory tow hooks, (Figure 1). Remove the plastic splash guard under the front bumper cover, (Figure 2).
3. Vehicles with factory tow hooks remove both tow hooks if equipped and proceed to Step 5. NOTE: Tow hooks cannot be rein-stalled with the Bull Bar.
4. Vehicles without factory tow hooks remove the factory hardware securing the ends of the bumper cover. Release the clips at the ends of the plastic bumper cover that attach the lower cover to the upper cover, (Figure 3). NOTE: It is not necessary to remove the lower bumper cover, only release the clips at both ends of the cover. Next, remove the (3) clips fastening the air deflector to the bot-tom of the cross member, (Figure 4). Carefully pull the bumper cover forward for access and pull the air deflector out from behind the bumper cover, . Release the (2) clips and remove the block off cover at each end of the air deflector, . Reinstall the air deflector and bumper cover using the factory hardware.
5. For the driver side Lower Mounting Bracket, insert the Bracket through the opening in the bumper and line up the (2) slots in the bracket with the (2) threaded holes in the bottom of the frame channel, (Figures 5 & 6). Bolt the Bracket to the frame channel with (2) M10 Hex Bolts, (2) M10 Large Flat Washers and (2) M10 Lock Washers, (Figures 7 & 8). Snug but do not fully tighten the hardware at this time. Repeat this step for passenger side Lower Mounting Bracket installation.



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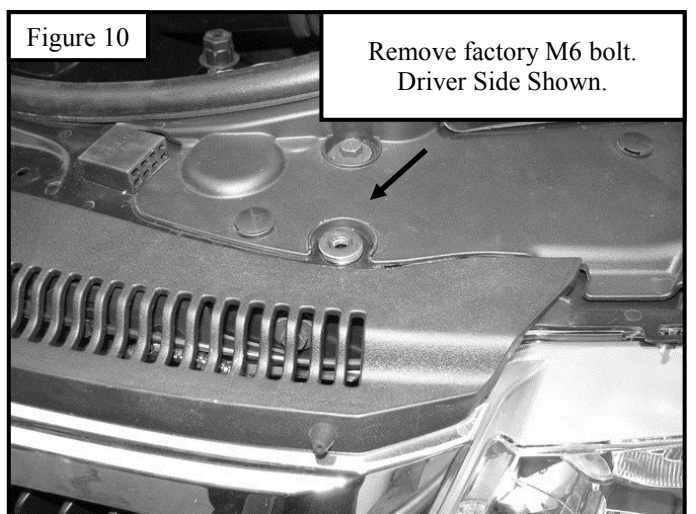
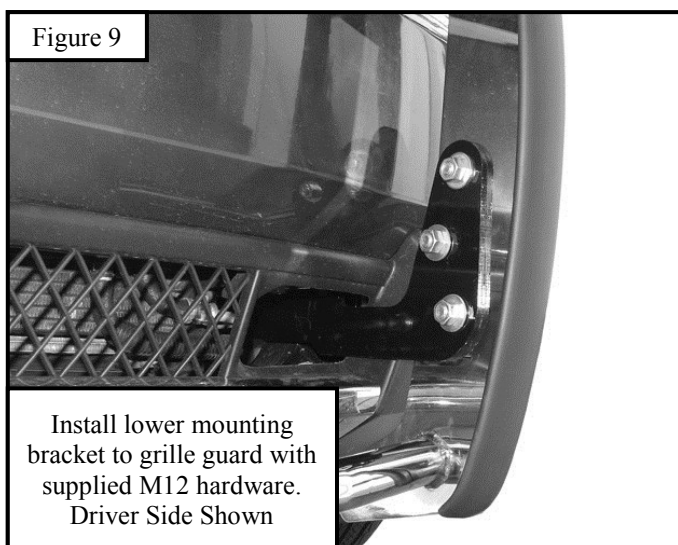
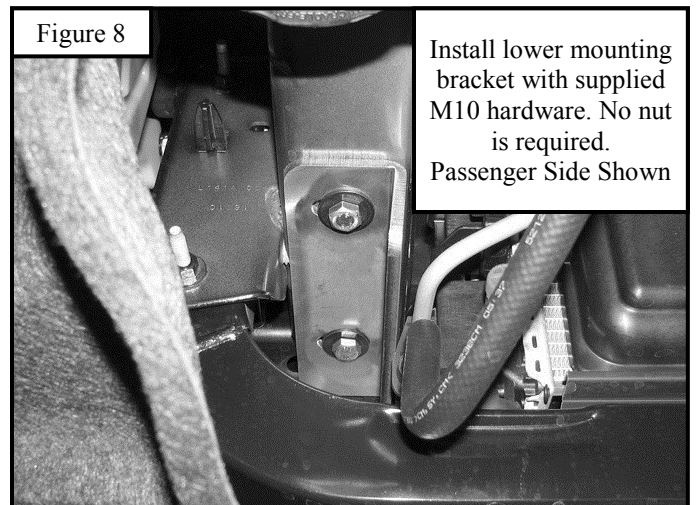
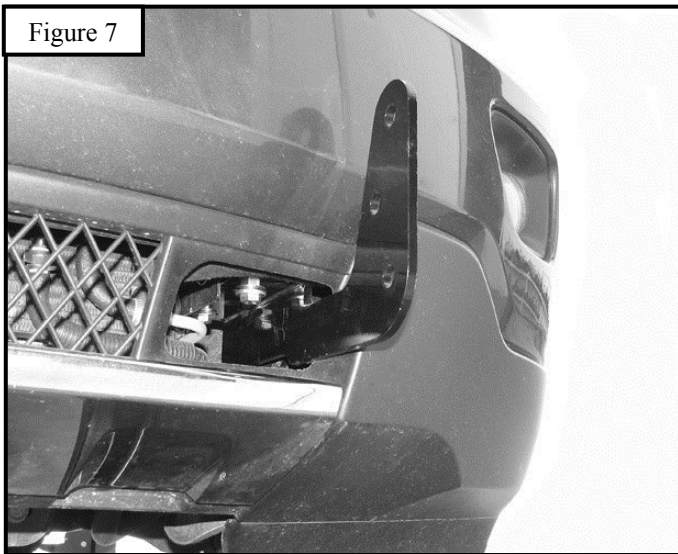
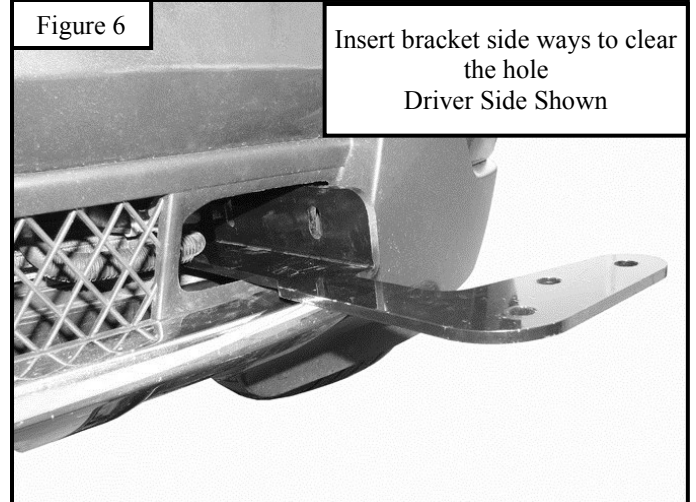
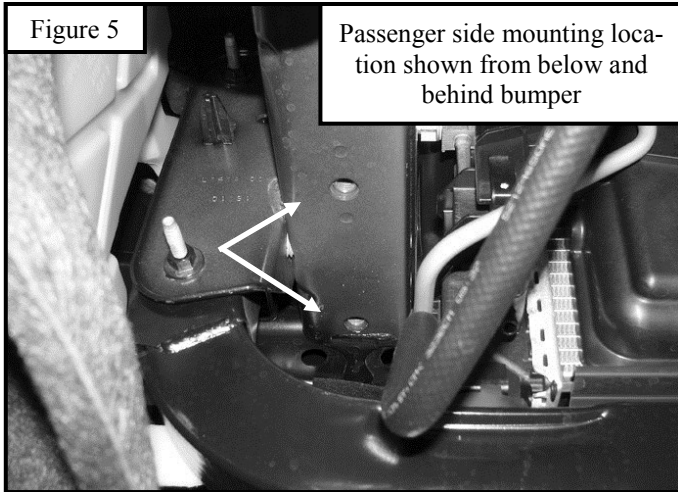
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6. With assistance, hold the Grille Guard up to the outside of the Lower Mounting Brackets. Loosely install the Grille Guard to the Lower Mounting Brackets with the included (6) M12 Hex Bolts, (12) M12 Flat Washers, (6) M12 Lock Washers and (6) M12 Hex Nuts, (Figure 9). **WARNING!** Do not allow Grille Guard to come in contact with the vehicle. Temporarily tighten hardware at this time to hold the Grille Guard in position.
7. Open the front hood. Locate and remove the factory M6 hex bolt on the driver side securing the plastic cover to the radiator support, (Figure 10). Use the included (2) M6 Flat Washers as spacers to fit into the recess in the plastic cover. Apply a layer of Adhesive-backed Foam Tape to the bottom of the Upper Support Bracket to protect the plastic cover. Place the Upper Support Bracket on top of the washers loosely install it to the radiator support using the factory hex bolt, (Figure 11). **NOTE:** For proper fit, the Upper Support Brackets must fit as close to the plastic cover and the top of the grille as possible for hood closure.
8. Line up the mounting holes of the Upper Support Brackets with the holes in the Grille Guard upright. Loosely install the Bracket to the Grille Guard with (1) M10 Button Head Bolt, (2) M10 Flat Washers and (1) M10 Nylon Lock Nut, (Figure 12).
9. Adjust Grille Guard as needed and torque: M6 hardware to 7ft-lbs., M10 hardware to 30-35 ft-lbs., and M12 hardware to 50-55 ft-lbs.



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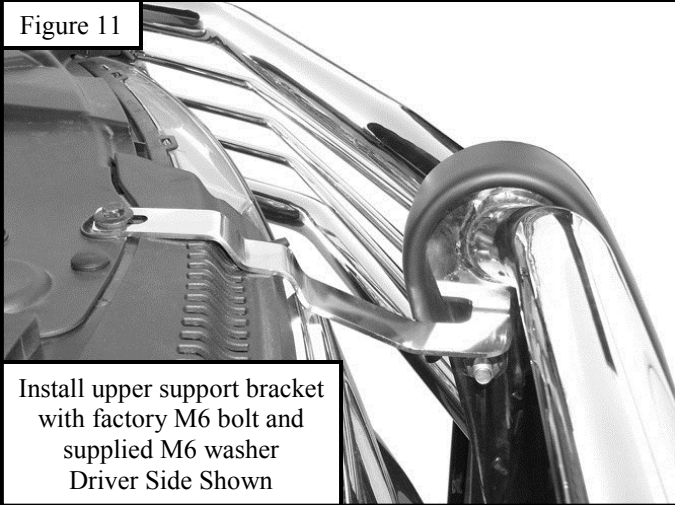
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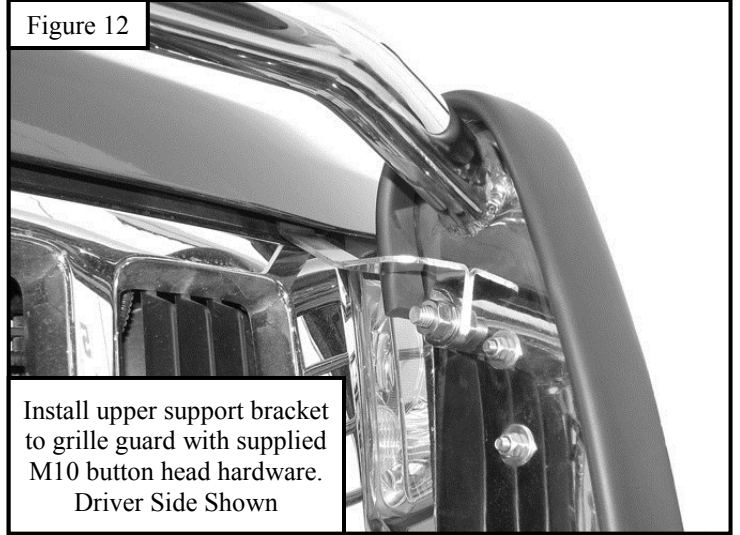
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Figure 11

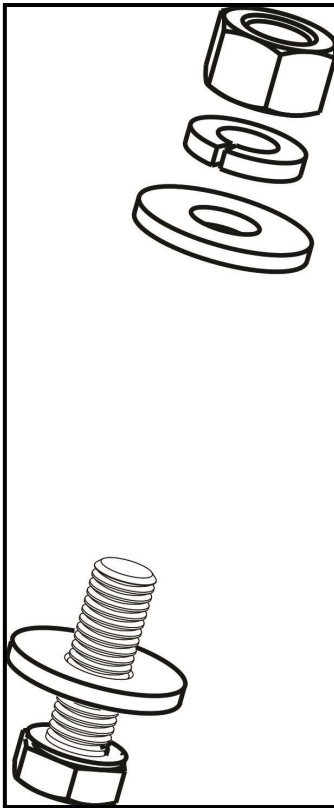


Install upper support bracket with factory M6 bolt and supplied M6 washer
Driver Side Shown

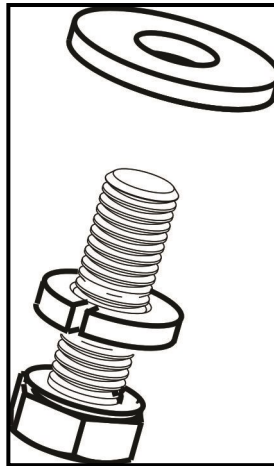
Figure 12



Install upper support bracket to grille guard with supplied M10 button head hardware.
Driver Side Shown



REFERENCE FOR ORDER OF HARDWARE WITH NUT

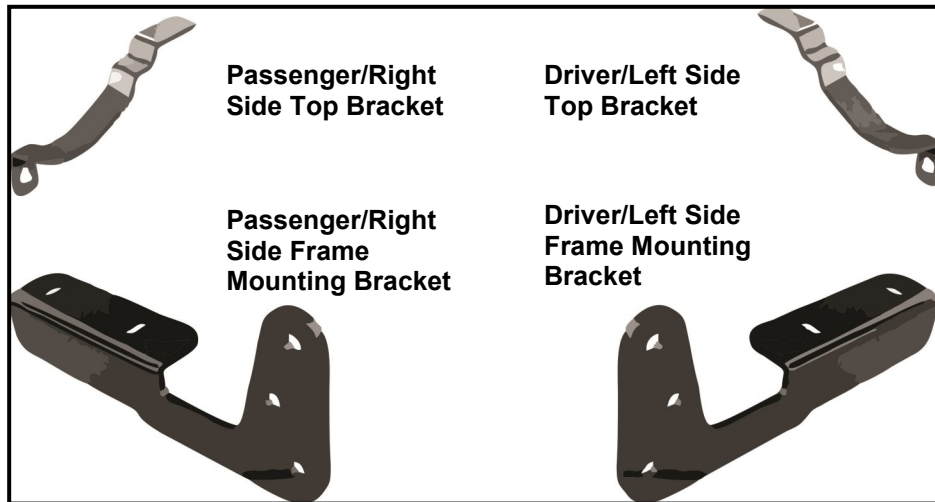


REFERENCE FOR ORDER OF HARDWARE W/O NUT



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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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