



## INSTALLATION INSTRUCTIONS

APPLICATION: 2006-2008 FORD F-150

PART NUMBER: 45-92010, 40-92015

WINCH MOUNTED SPORTSMAN GRILLE GUARD

SIGNATURE OF QUALITY

AUTOMOTIVE PRODUCTS, INC.

ITEM	QUANTITY	ITEM DESCRIPTION	TOOLS NEEDED
1	1	WINCH TRAY ASSEMBLY/GRILLE GUARD	18MM SOCKET
2,3	2	UPPER MOUNTING BRACKETS (2) DRIVERS SIDE, (3) PASSENGER SIDE (IN WINCH TRAY BOX)	18MM WRENCH
4,5	2	LOWER MOUNTING BRACKETS (4) DRIVERS SIDE, (5) PASSENGER SIDE (IN WINCH TRAY BOX)	TORQUE WRENCH
6	2	M12 X 200MM HEX BOLT (YELLOW ZINC) (IN WINCH TRAY BOX)	16MM SOCKET
7	4	M12 X 50MM HEX BOLT (YELLOW ZINC) (IN WINCH TRAY BOX)	16MM WRENCH
8	8	M12 SPRING LOCK WASHER (YELLOW ZINC) (IN WINCH TRAY BOX)	RATCHET
9	4	M12 HEX NUT (YELLOW ZINC) (IN WINCH TRAY BOX)	
10	2	M12 SINGLE STUD PLATE (YELLOW ZINC) (IN WINCH TRAY BOX)	
11	10	M12 FLAT WASHER (YELLOW ZINC) (IN WINCH TRAY BOX)	
12	2	11MM PLASTIC RETAINER (IN WINCH TRAY BOX)	
13	2	M12 DOUBLE NUT PLATE (YELLOW ZINC) (IN WINCH TRAY BOX)	
14	6	M12 X 75MM HEX BOLT (BLACK ZINC) (IN GRILLE GUARD BOX)	
15	6	M12 HEX NUT (BLACK ZINC) (IN WINCH TRAY BOX)	
16	12	M12 FLAT WASHER (BLACK ZINC) (IN GRILLE GUARD BOX)	
17	6	M12 SPRING LOCK WASHER (BLACK ZINC) (IN GRILLE GUARD BOX)	
18,19	2	UPPER SUPPORT BRACKET(BOTTOM), DRIVERS SIDE(19), PASSENGER SIDE(20) (IN GRILLE GUARD BOX)	
20,21	2	UPPER SUPPORT BRACKET(TOP) ,DRIVERS SIDE(21), PASSENGER SIDE (22) (IN GRILLE GUARD BOX)	
22	2	M10 HEX HEAD BOLT ( BLACK ZINC) ( IN GRILLE GUARD BOX)	
23	4	M10 FLAT WASHER (BLACK ZINC) (IN GRILLE GUARD BOX)	
24	2	M10 LOCK WASHERS (BLACK ZINC) ( IN GRILLE GUARD BOX)	
25	2	M10 HEX NUTS (BLACK ZINC) (IN GRILLE GUARD BOX)	
26	6	SPACERS (IN GRILLE GUARD BOX)	
27	4	M10 HEX HEAD BOLTS (YELLOW ZINC) (IN GRILLE GUARD BOX)	
28	4	M10 FLAT WASHERS (YELLOW ZINC) (IN GRILLE GUARD BOX)	
29	4	M10 LOCK WASHERS (YELLOW ZINC) (IN GRILLE GUARD BOX)	



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## NOTICE

**This tray is designed to accept all major winches manufactured with a 10" x 4.5 bolt pattern and a max capacity of 12,000 lbs**

1. Remove contents from box. Verify that all parts listed are present and free from damage. Installation should be performed by a professional installer. Read installation instructions carefully before attempting installation. (Note: any extra hardware not listed in the instruction sheet please discard)
2. If the vehicle is equipped with 4WD, the front tow hooks must be removed prior to installation. Remove the two 15MM bolts from the bottom of the tow hooks. Remove tow hooks and nut plate from the frame rail. Factory tow hooks cannot be re-used with winch tray kit.
3. If the vehicle is a 2WD, the lower front bumper valance must be trimmed around the frame rail. Follow the indent on the valance.
4. The license plate and mounting bracket must be removed for installation.
5. Insert one M12 double nut plate (ITEM 13) into each frame rail. Line up the nuts with the two round holes on the frame rail. (FIGURE 4,5)
6. Thread one M11 plastic retainer (ITEM 12) to one M12 single stud plate (ITEM 10), then insert into each slot on the driver and passenger side frame rail located on the inside surface. Thread the retainer so it holds the stud plate in place. (FIGURE 6)
7. Insert each lower mounting bracket through the lower bumper valance and secure to the vehicle frame. Secure the mounting bracket to the M12 single stud plates with one M12 flat washer (ITEM 11) , one M12 lock washer (ITEM 8), and one M12 hex nut per side (ITEM 9) . Do not fully tighten at this time. (FIGURE 1, 7)
8. Secure the lower mounting brackets to the previously installed M12 double nut plate (ITEM 13) using four M12 flat washers (ITEM 11), four M12 lock washers (ITEM 8), and four M12 x 50MM hex bolts (ITEM 7). Do not fully tighten at this time. (FIGURE 8, 9)
9. Secure the winch tray assembly and each upper mount brackets to the bumper mounting brackets by inserting one M12 x 200MM (ITEM 6) hex bolt and through the upper support mounting bracket (bottom) then attach with one M12 flat washer (ITEM 11) through the each bracket tube and bumper mount slot. Thread an M12 hex nut with an M12 flat washer (ITEM 11) on each bolt behind the bumper mount. (FIGURE 3, 10, 11, 13)
10. Attach the upper support bracket (top) to the upper support bracket (bottom) using four M10 hex head bolts (ITEM 27), four M10 flat washers ( ITEM 28), and four M10 lock washers (item 29). Do not fully tighten at this time. ( FIGURE 14)
11. With assistance, attach the winch tray assembly and the grille guard (ITEM 1) to the lower mounting brackets with the upper mount bracket flange sandwiched between the tray and the lower mount bracket flanges, place the six spacer's (item 26) between the grille guard and the winch tray. Secure with six M12 x 75MM hex bolts (ITEM 14), twelve M12 flat washers (ITEM 16), six M12 lock washers (ITEM 17), and six M12 hex nuts (ITEM 15).Mount the grille guard to the upper support brackets using two M10 hex head bolts (ITEM 22), four M10 flat washers (ITEM 23), two M10 lock washers (ITEM 24), and two M10 hex nuts (ITEM 25) Do not fully tighten at this time. (FIGURE 2, 3, 12)
12. Tighten all fasteners starting with the winch tray assembly then the lower mounting brackets. Tighten each M12 fastener to approx 45-60 lbs-ft. and M10 to 35-40 ft lbs  
This tray is designed to accept all major winch manufacturers with a 10" x 4.5" bolt pattern and a maximum capacity of 13,000 pounds



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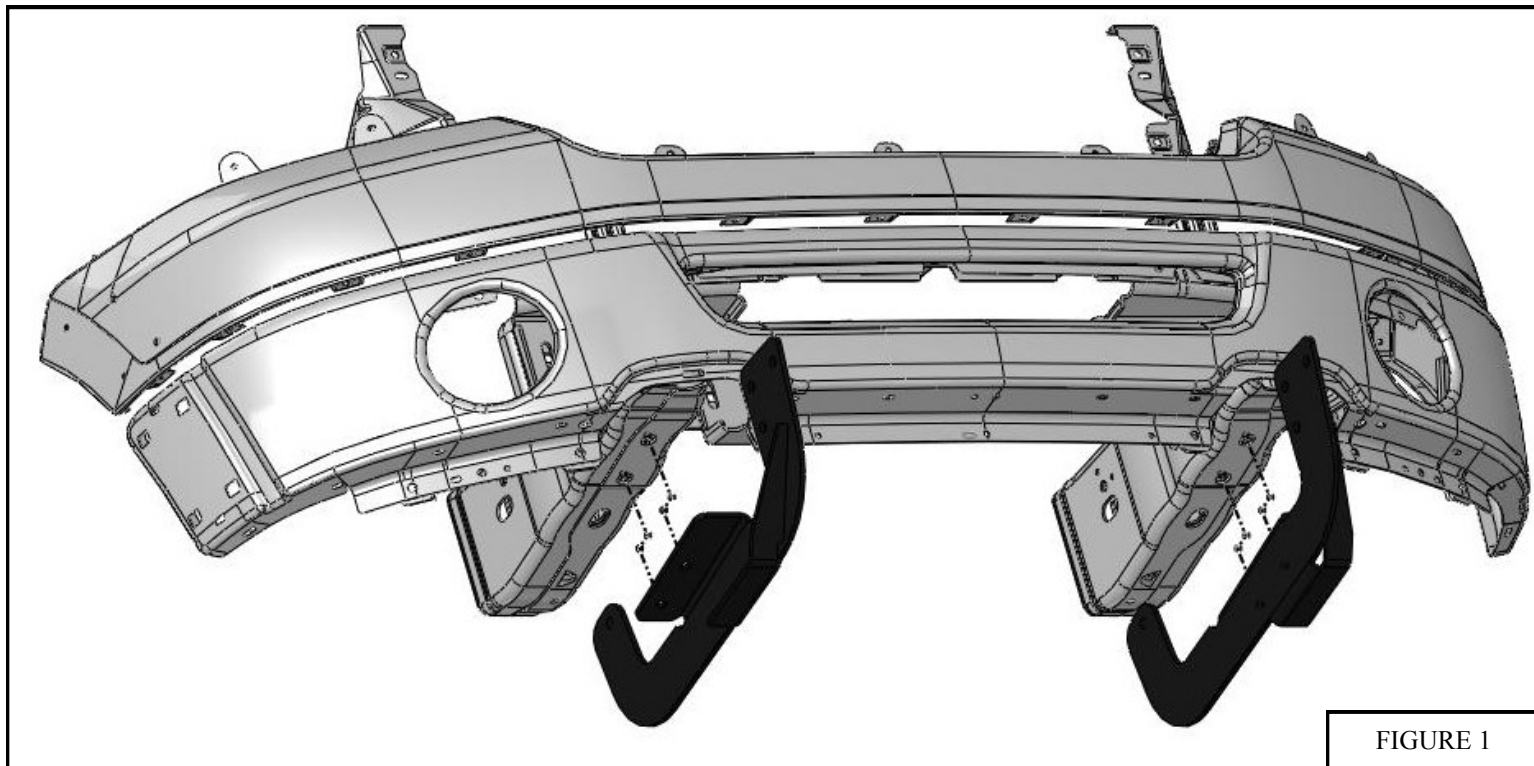


FIGURE 1

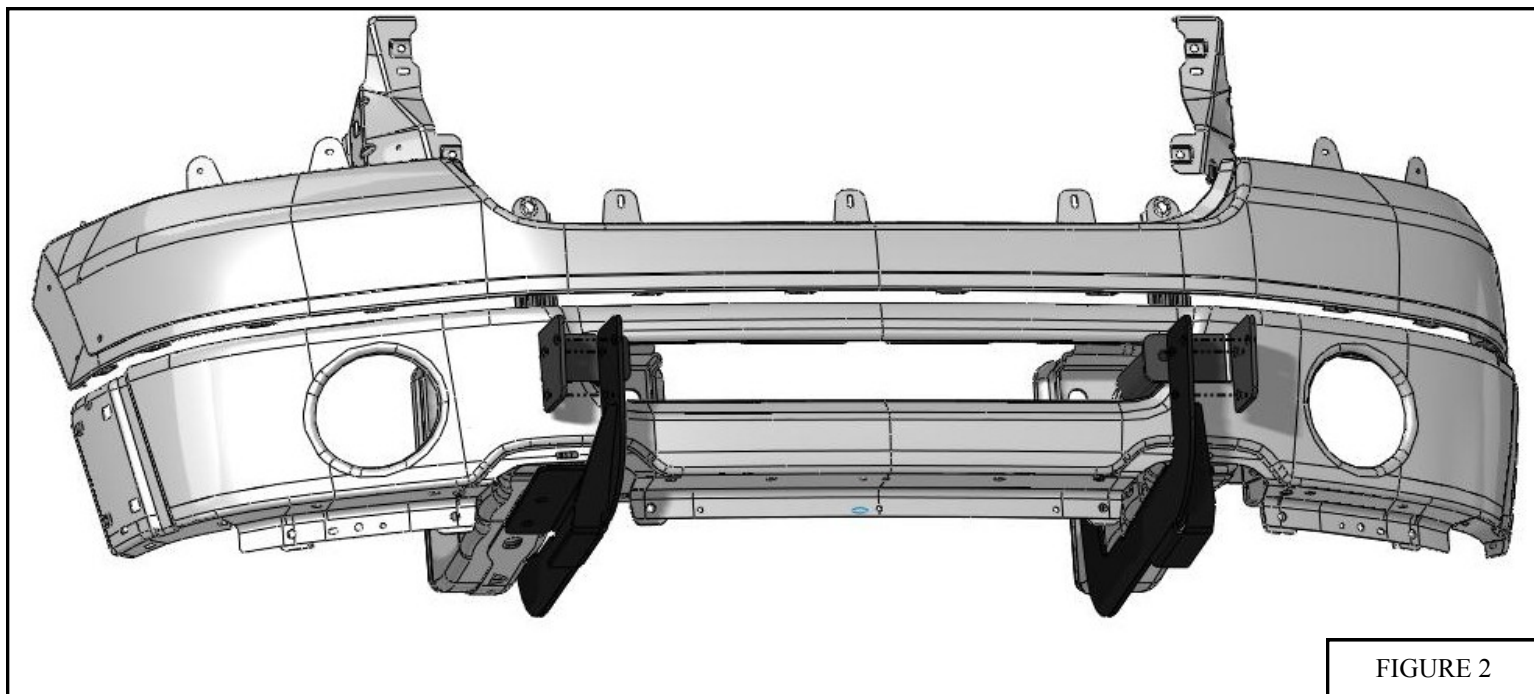


FIGURE 2



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ECO #: W14-0066

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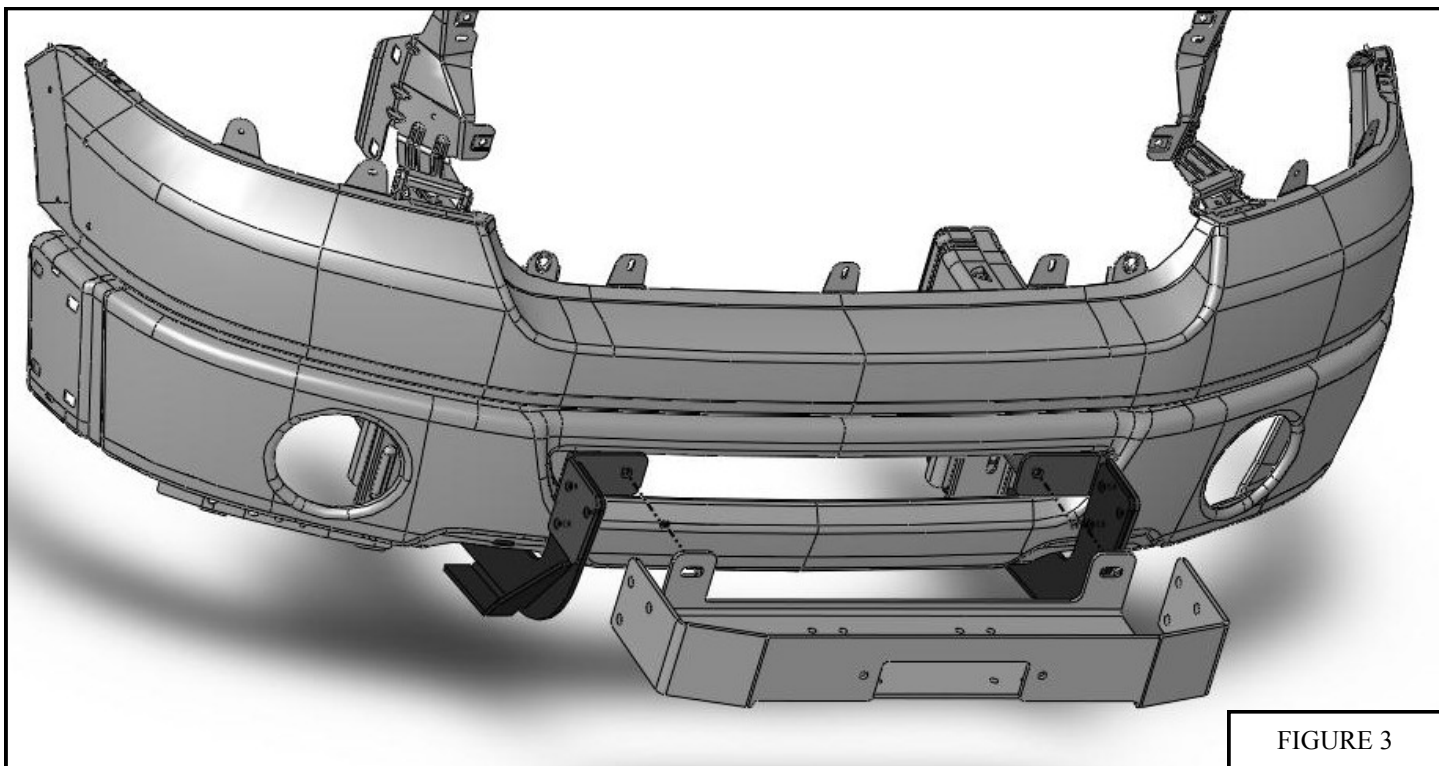


FIGURE 3

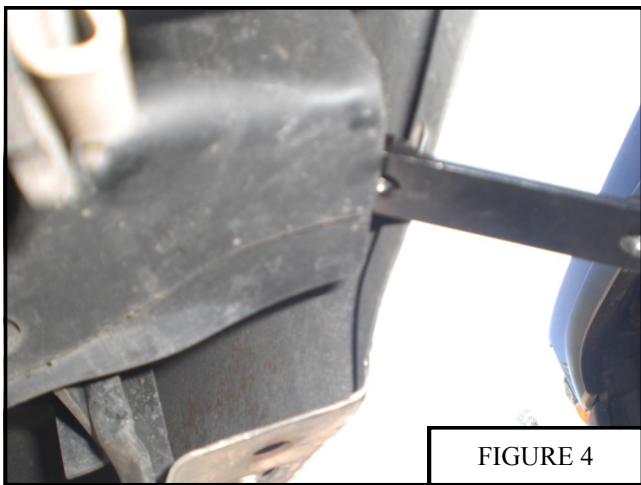


FIGURE 4

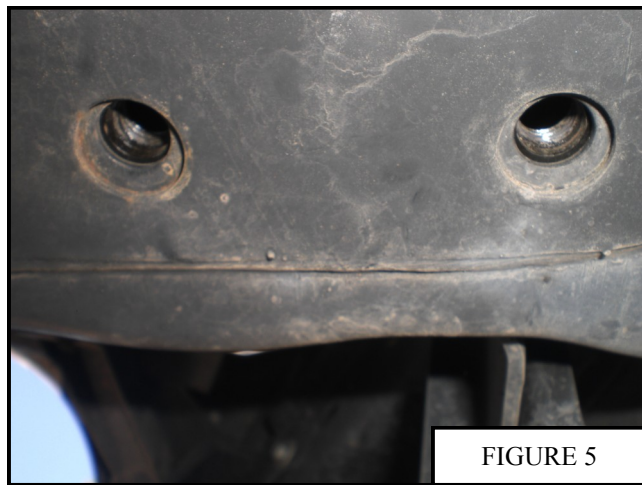


FIGURE 5



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FIGURE 6

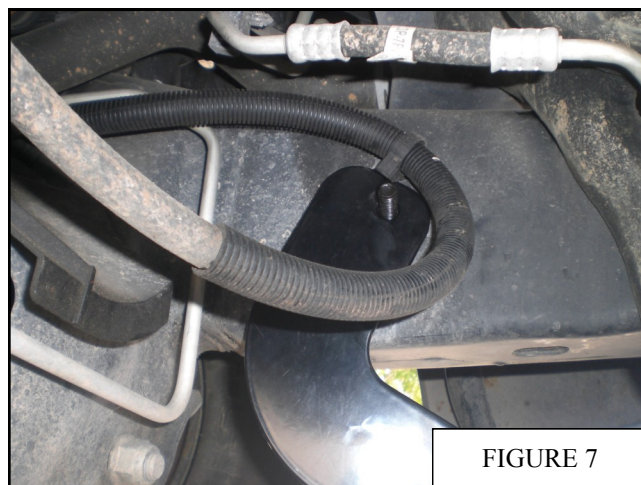


FIGURE 7



FIGURE 8



FIGURE 9

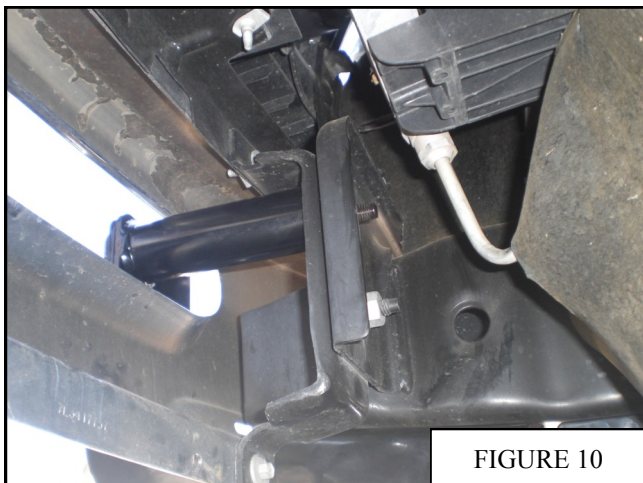


FIGURE 10

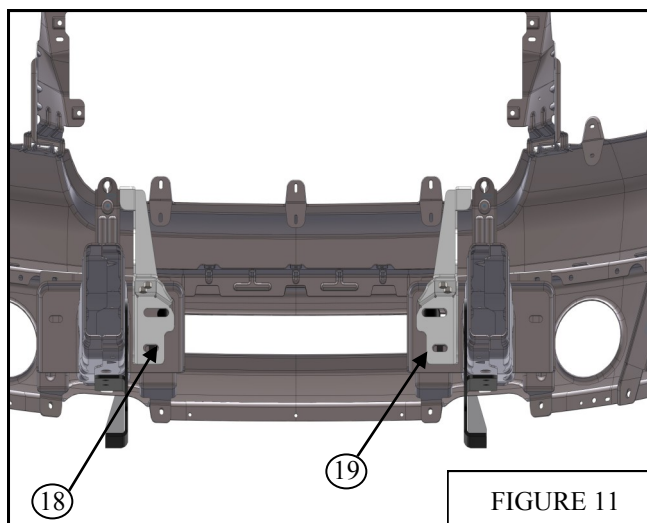


FIGURE 11

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# INSTRUCTIONS—INSTRUCCIONES—CONSIGNES

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PART NUMBER: 45-92010, 40-92015  
WINCH MOUNTED SPORTSMAN GRILLE GUARD

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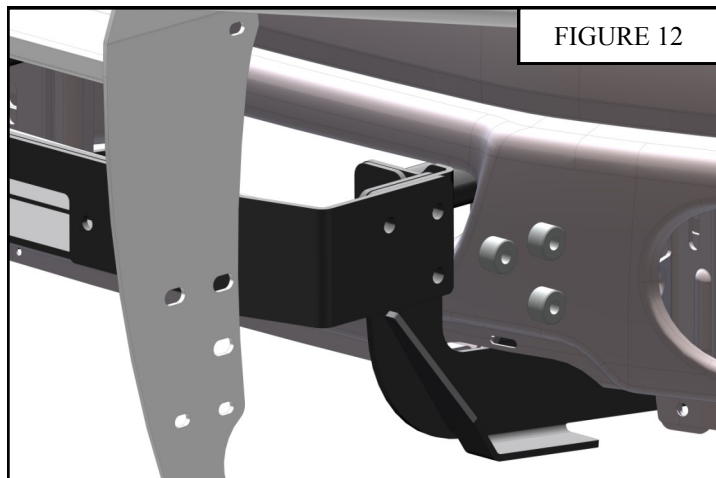


FIGURE 12

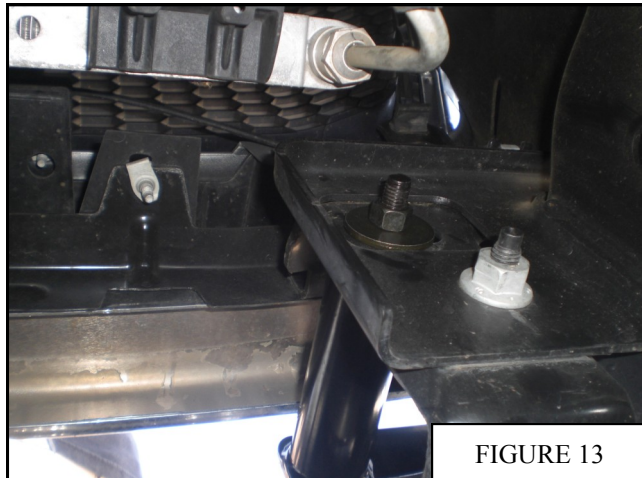


FIGURE 13

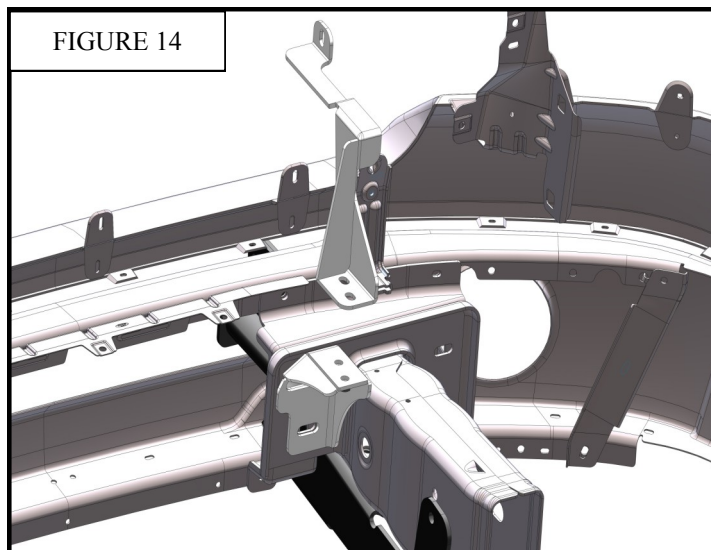


FIGURE 14

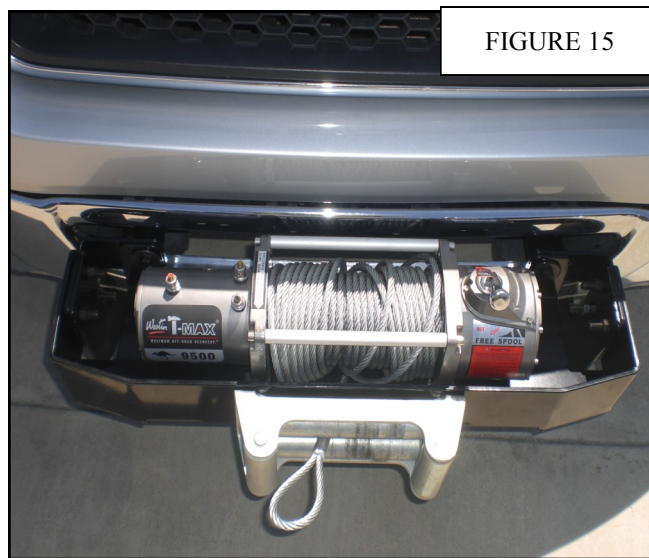


FIGURE 15



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## WARNINGS & NOTICES FOR THE INSTALLATION OF MAX WINCH TRAY & SPORTSMAN—WINCH MOUNTS

### NOTICE

Westin Max Winch Trays are designed to accommodate a winch bolt pattern of 10" X 4.5". Closely follow all Westin Installation Instructions for the proper installation of product. Improper installation can result in death, serious injury, and/or product and vehicle damage. In the operation of these products, it is imperative to observe precautions for your personal safety and the safety of others.

### **WARNING**

Failure to follow these instructions could lead to death, personal injury, and / or property damage.

#### FASTENERS:

All Westin supplied fasteners must be utilized and installed in accordance with the installation instructions and apply torque to the specifications as defined. **DOUBLE CHECK ALL FASTENERS BEFORE PRODUCT USE TO ENSURE PROPER FUNCTION AND SAFETY.**

#### DRILLING:

Most Westin products do not require drilling for installation. If drilling is defined as required, use caution when drilling a vehicle. **FAILURE TO REVIEW AN AREA TO BE DRILLED MAY RESULT IN PERSONAL INJURY AND OR INJURY TO OTHERS AS WELL AS VEHICLE DAMAGE.**

#### EYE PROTECTION:

**ALWAYS WEAR SAFETY GLASSES OR GOGLES DURING THE INSTALLATION PROCESS TO AVOID PERSONAL INJURY.**

#### TOW HOOKS—TOW ATTACHMENT:

During product use, Tow Straps, Tow Cables, and Tow Hooks must only be attached to the Westin Tow Hook Loops as attached to the Max Winch Tray, (sold separately). **DO NOT ATTACH TO ANY OTHER AREA OR SERIOUS PERSONAL INJURY OR INJURY TO OTHERS MAY OCCUR.**

#### WINCH SIZING & MAX WINCH TRAY CAPACITY:

The Max Winch Tray is designed for a maximum Winch size rating of 12,000 Lbs. Use of Winch size ratings above this limit will void the Westin warranty and **MAY RESULT IN PERSONAL INJURY AND OR INJURY TO OTHERS AS WELL AS VEHICLE DAMAGE.**



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