



## INSTALLATION INSTRUCTIONS FOR MOUNTING

LUVERNE GRILLE GUARD WITH THE FOLLOWING MODEL NO.:  
321520/321523 or 311523 ON:

2015 AND NEWER F-150 SERIES TRUCKS WITH TOW HOOKS

1. READ THE INSTRUCTIONS COMPLETELY AND CHECK TO MAKE SURE THAT ALL OF THE REQUIRED PARTS ARE ON HAND BEFORE STARTING THE INSTALLATION. THE CARTON SHOULD CONTAIN:
  - (1) OUTER RING PACKAGE
    - (1) RING ASSEMBLY
  - (1) BRACKET PACKAGE
    - (1) MOUNTING BRACKET, RH
    - (1) MOUNTING BRACKET, LH
    - (1) HARDWARE PACKAGE
    - (1) CUSTOMER SERVICE PACKAGE

### REFER TO SHEETS #1, #2, & #3 FOR GUARD ASSEMBLY & INSTALLATION INSTRUCTIONS 2-8

2. REMOVE THE RUBBER BOOTS SURROUNDING THE TOW HOOKS BY PULLING THE BACK AND SIDES OF THE BOOT OUT AND DOWN FROM THE LOWER AIR DAM. IF YOU LOOSEN THE SCREWS THAT HOLD THE LOWER AIR DEFLECTOR IT WILL MAKE IT EASIER TO REMOVE THE BOOTS.
3. LOOSEN AND REMOVE THE REAR BOLTS FROM THE TOW HOOKS AND INSTALL M12 X 1.75 X 55mm HEX HEAD BOLTS (ITEM #4), 7/16" FLAT WASHERS (ITEM #7) AND A 1/2" LOCK WASHERS (ITEM #10) INTO THE MOUNTING PLATES INSIDE THE FRAME THAT SECURES THE TOW HOOK TO THE FRAME. LEAVE ENOUGH ROOM UNDER THE FLAT WASHERS TO INSTALL THE 1/2" MOUNTING BRACKETS.
4. REMOVE THE FRONT TOW HOOK BOLTS AND TOW HOOKS. THE TOW HOOKS AND BOLTS WILL NOT BE REUSED.
5. INSTALL THE RIGHT HAND AND LEFT HAND MOUNTING BRACKETS (ITEM #2 & #3) USING TWO M12 X 1.75 X 55mm HEX HEAD BOLTS (ITEM #4), TWO 7/16" FLAT WASHERS (ITEM #7) AND TWO 1/2" LOCK WASHERS (ITEM #10), IN EACH BRACKET AS SHOWN IN *fig. 1*. SNUG UP THE BOLTS, BUT STILL ALLOW THE BRACKETS TO MOVE AT THIS TIME.
6. INSTALL THE RING (ITEM #1) WITH THE MOUNTING BRACKETS TO THE INSIDE OF THE UPRIGHTS (TAKING CARE NOT TO SCRAPE THE ENDS OF THE RING AGAINST THE SIDE OF THE VEHICLE.) AND FASTEN WITH 1/2"-13 X 1-1/2" CARRIAGE BOLTS (ITEM #5), 1/2" SAE FLAT WASHERS (ITEM #8), 1/2" LOCK WASHERS (ITEM #9) AND 1/2"-13 ACORN NUTS (ITEM #6). LEAVE LOOSE AT THIS TIME.



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202828 SHEET 1 OF 3 20FEB15

7. CHECK THAT THE GRILLE GUARD IS CENTERED AND VERTICAL ON THE BUMPER AND THE UPRIGHTS ARE STRAIGHT UP AND DOWN. THEN TIGHTEN THE FOUR 1/2"-13 ACORN NUTS (ITEM #7) SECURING THE RING TO THE UPRIGHTS. TIGHTEN TO 65 FOOT-POUNDS OF TORQUE.
8. TIGHTEN THE M12 X 1.75 X 55mm HEX HEAD BOLTS (ITEM #4) THAT SECURE THE MOUNTING BRACKETS TO THE FRAME. TIGHTEN TO 70 FOOT-POUNDS OF TORQUE.

**SERVICE PARTS LIST**

ITEM	PART NO.	QTY	DESCRIPTION
1	321523	1	RING WELDMENT – BLACK
1	311523	1	RING WELDMENT – STAINLESS STEEL
2	202825	1	MOUNTING BRACKET - LH
3	202826	1	MOUNTING BRACKET - RH
4	105107	4	HEX HEAD SCREW – M12 X 1.75 X 55mm, ZP
5	104131	4	CARRIAGE BOLT – 1/2"-13 X 1-1/2", BZP
6	105910	4	HEX ACORN NUT – 1/2"-13, BZP
7	100081	4	FLAT WASHER – 7/16", ZP
8	100940	4	FLAT WASHER – SAE, 1/2", BZP
9	109511	4	LOCK WASHER – 1/2", BZP
10	100121	4	LOCK WASHER – 1/2", ZP
11	106888	1	DECAL – LOGO,LUVERNE, 3/4" X 3"



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SERVICE PARTS LIST

MODEL NO. - 321520

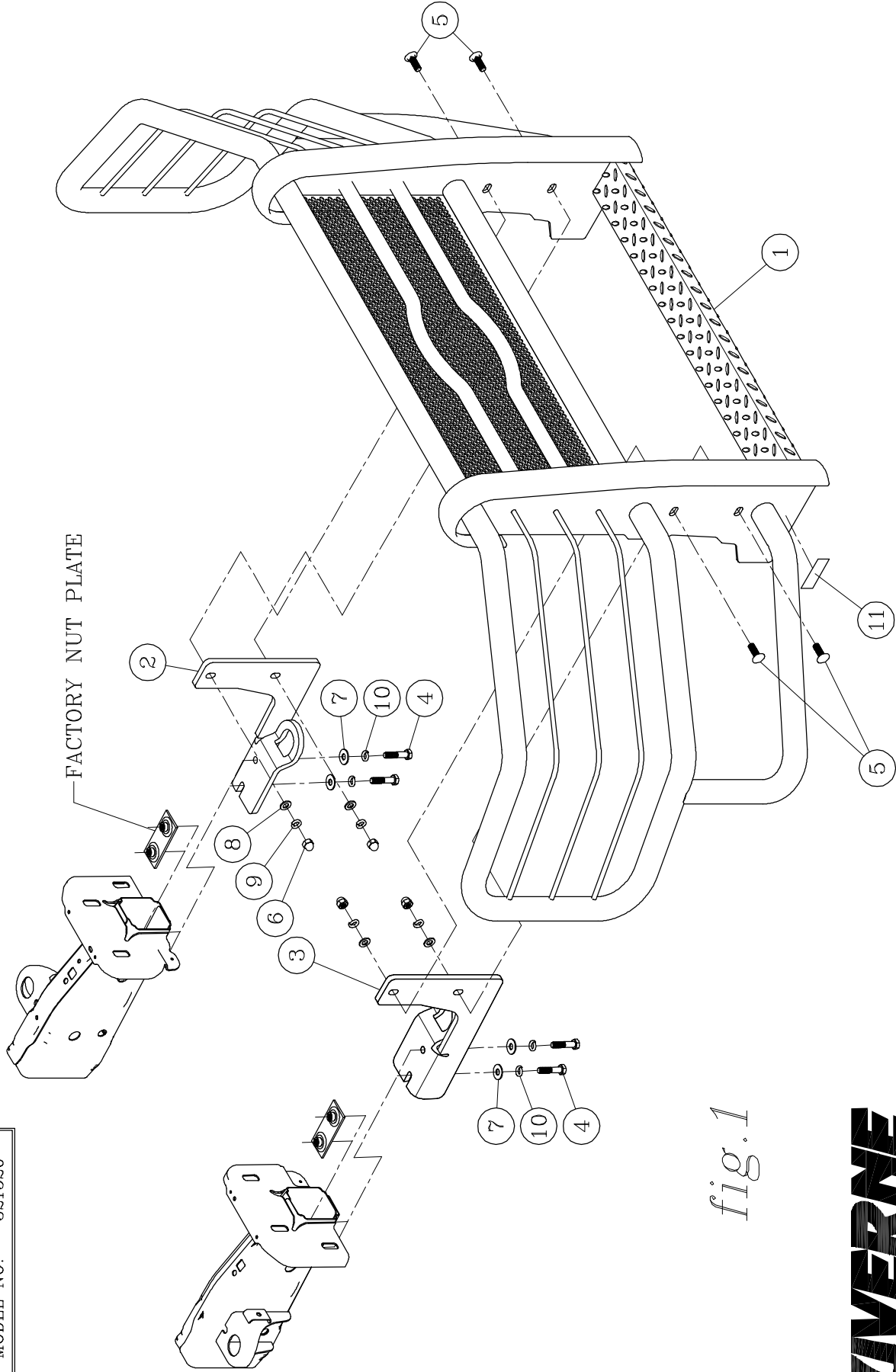


fig. 1

**LOVERNE**  
TRUCK EQUIPMENT  
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1200 E. Birch St. Brandon, SD 57005