

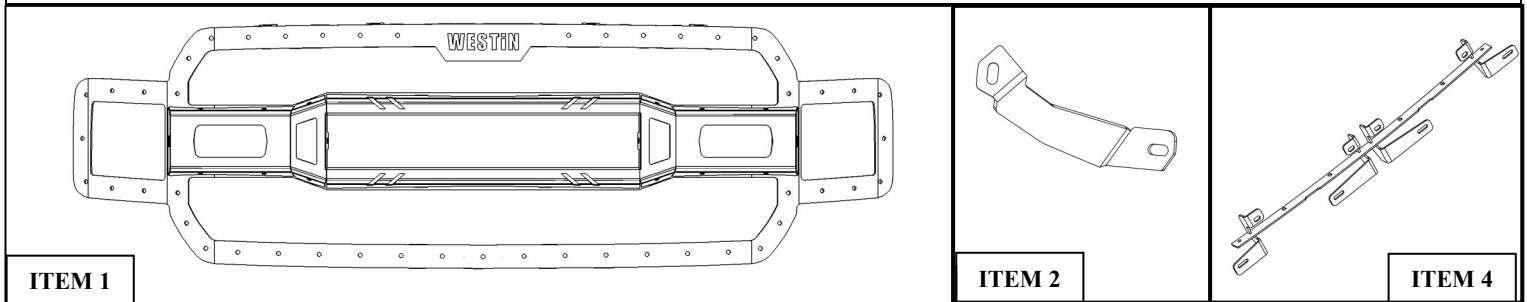
INSTALLATION INSTRUCTIONS



HDX LED GRILLE
APPLICATION:
2018 Ford F150
PART NUMBER:
34-1105

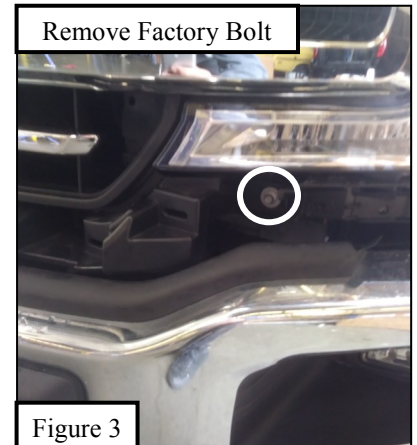
ITEM	QUANTITY	DESCRIPTION	TOOLS NEEDED
1	1	HDX GRILLE	10MM SOCKET
2,3	2	BOTTOM MOUNT BRACKET (1 DRIVER, 1 PASSENGER)	RATCHET WRENCH
4	1	FILLER PANEL BRACKET	TORQUE WRENCH
5	5	M6 HEX NUT (YELLOW ZINC)	8MM SOCKET
6	6	M6 SPLIT LOCK WASHER (YELLOW ZINC)	ZIP TIES
7	6	M6 FLAT WASHER (YELLOW ZINC)	8MM SOCKET

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

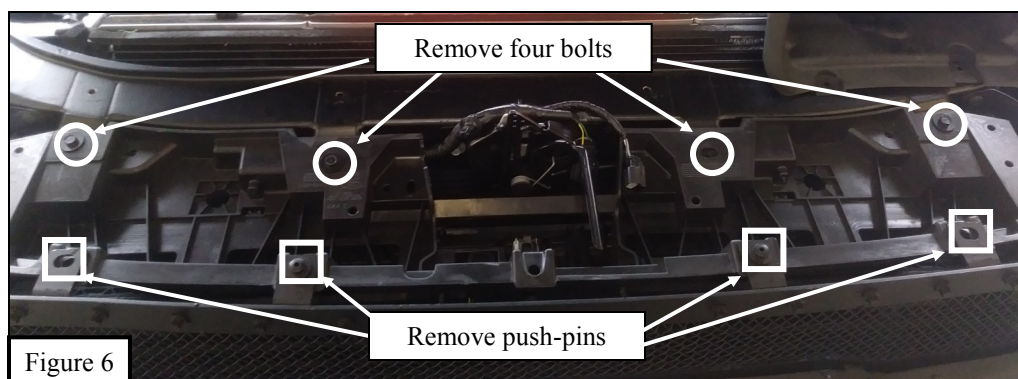
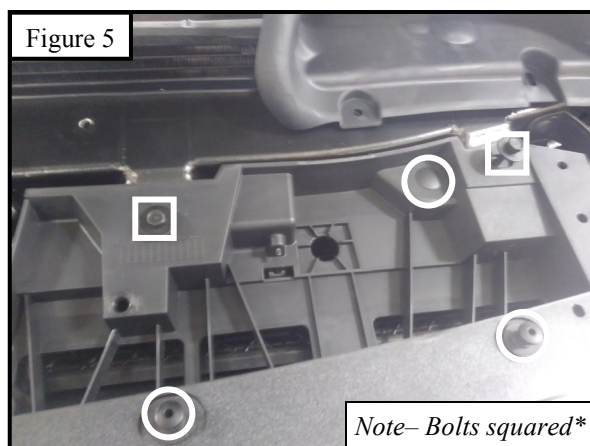


PROCEDURE

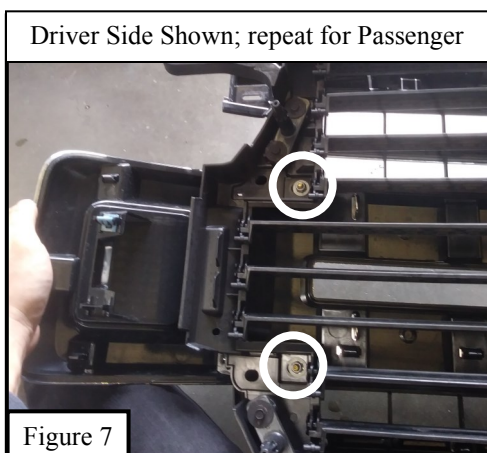
1. Remove contents from box, verify if all parts listed are present and free from damage.
Carefully read and understand all instructions before attempting installation.
Failure to identify damage before installation could lead to a rejection of any claim.
2. Starting on either side, remove the headlight trim panel by removing two bolts on the side near the front tire and a plastic clip on the top near the engine. Start removing the headlight trim from the top first and then the bottom. Then work your way towards removing the middle portion. See **Figures 1 - 3**. Repeat step for opposite side.



3. Locate plastic push pins on the radiator cover. Remove the plastic push pins in order to remove the radiator cover. See **Figures 4 & 5**. **Note:** Un-plug any electrical connectors that connect to the grille.
4. Remove (4) bolts that attach the grille to the vehicle. Then lift the grille up and off the truck. See **Figures 5 & 6**.
5. Once the grille is off, remove the (4) push pins that hold the top portion of the grille can be pulled off. See **Figure 6**.

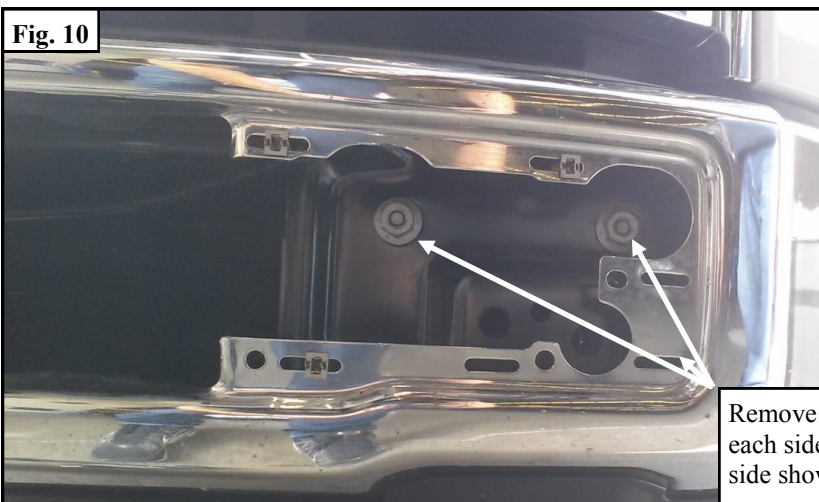


6. Remove (4) nuts on the grille shutter to allow removal of shutters from grille. See **Figure 7**. **Note:** The (4) nuts attach to bolts that are attached to the grille, may need to hold the bolts to remove the nuts more easily.
7. Remove the tree fasteners from the grille to remove the trim piece. See **Figure 8**.

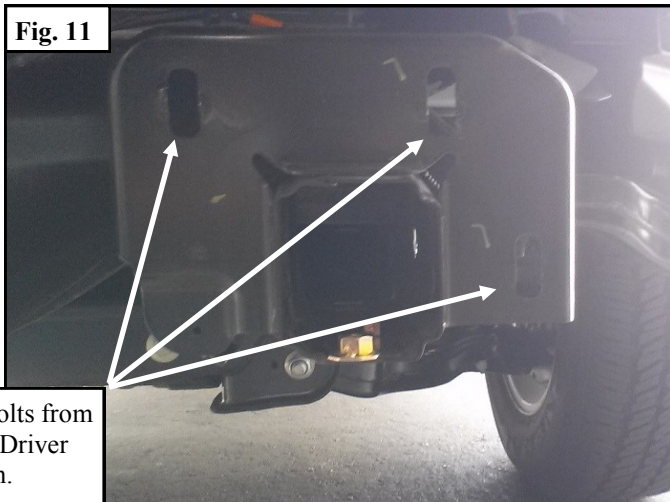




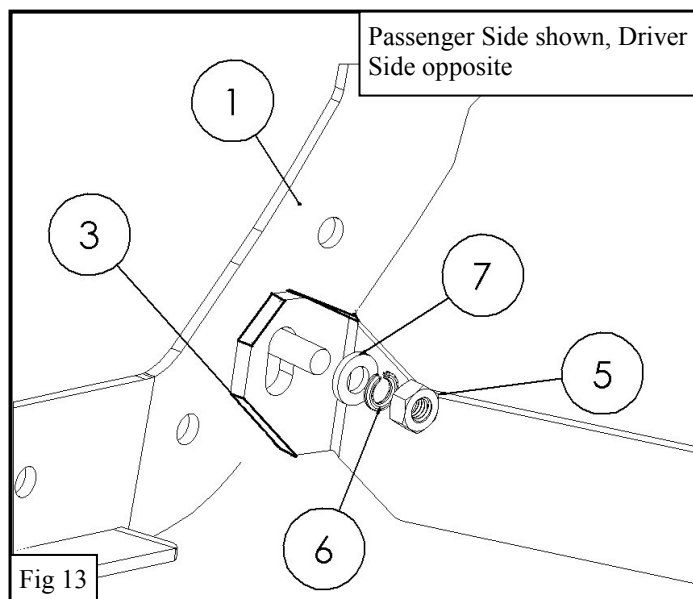
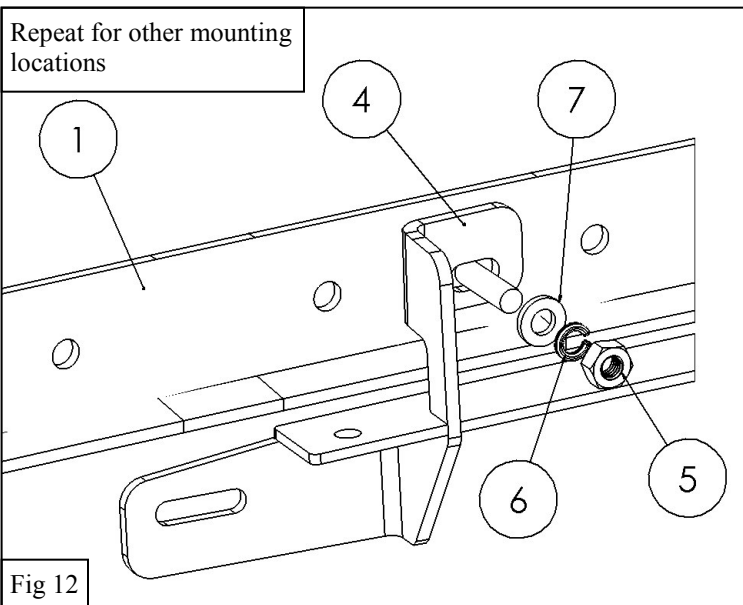
8. Reinstall the Shutters as they were removed.
9. Remove plastic caps from stock bumper. See **Figure 9**.
10. Remove the three bolts indicated in **Figures 10 & 11** from each side of the vehicle.
11. Remove original bumper making sure to disconnect any electrical connections to the bumper.

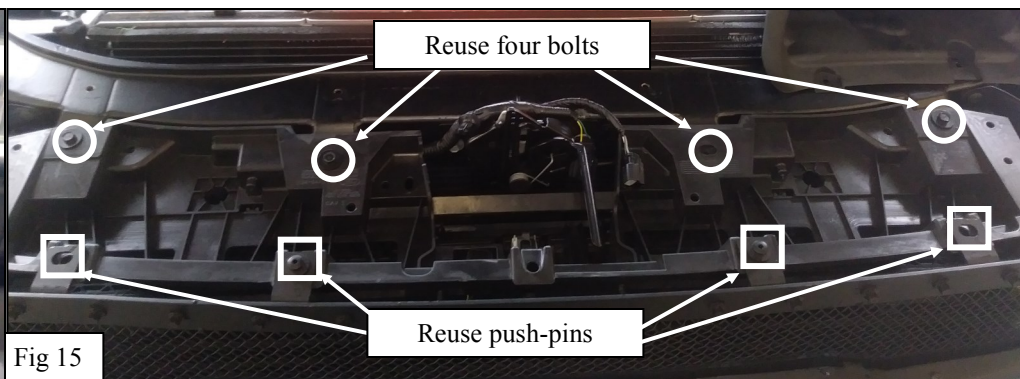
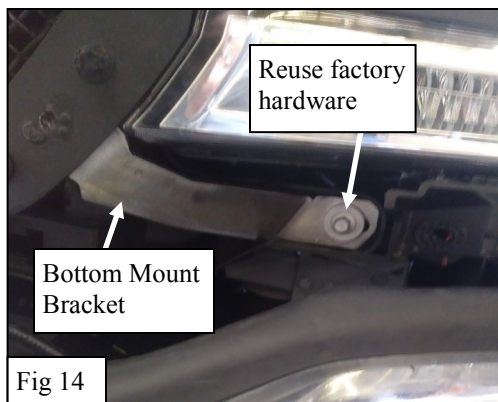


Remove bolts from each side. Driver side shown.

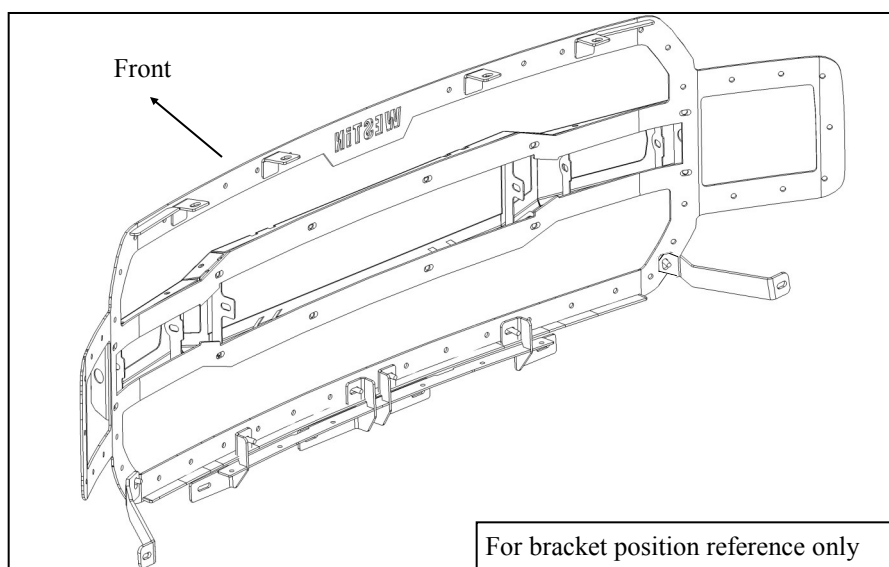
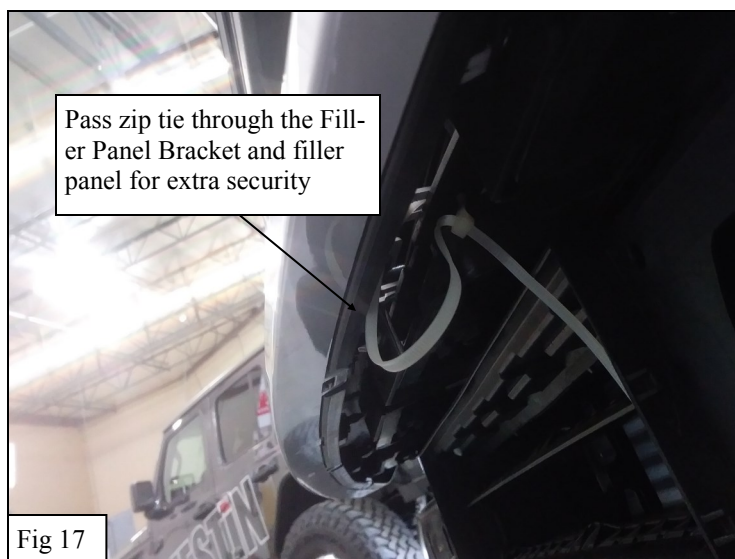
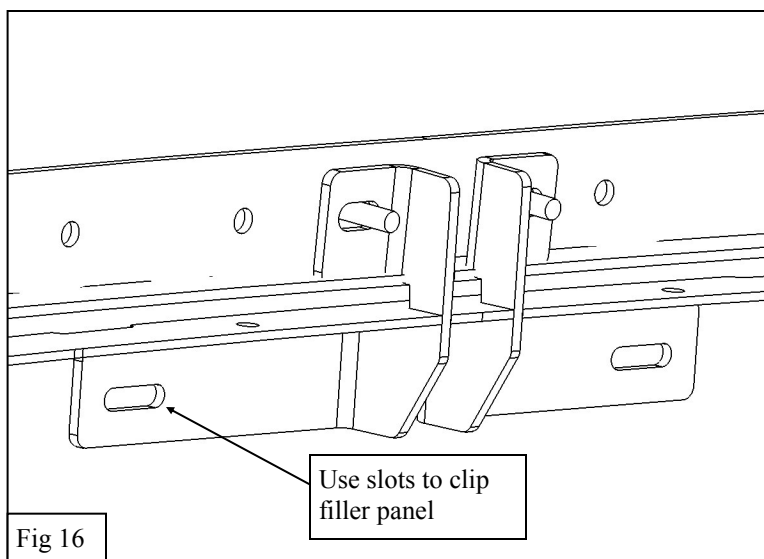


12. Install the Filler Panel Bracket (4) to the HDX Grille (1). Torque M6 hardware to 6 ft-lbs See **Figure 12**.
13. Loosely install the Bottom Mount Bracket (2) to the HDX Grille (1) using the supplied M6 Hardware. See **Figure 13**.
14. Use the factory hardware to attach the HDX Grille and factory shutters to the vehicle. See **Figures 14 & 15**.





15. Align and adjust the HDX LED Grille guard onto the grille shutters as necessary then torque M6 hardware to 5-7 ft-lbs.
16. Reinstall the factory filler panel by pressing the clips into the slots on the Filler Panel Bracket. See **Figure 16**.
17. Use zip ties to secure the filler panel utilizing the slots on top of item 4. See **Figure 17**.
18. Refer to wiring instructions on **Page 4** in order to connect LED lights to vehicle.
19. Reinstall the factory bumper in the reverse order it was removed.



INSTALLATION COMPLETE



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.

WESTIN Westin Automotive Products, Inc.
320 W. Covina Blvd
San Dimas, Ca. 91773

Thank you for choosing Westin products
for additional installation assistance please call
Customer Service (800) 793-7846
www.westinautomotive.com

1. Disconnect ground connection from battery (-) to avoid accidental short circuits before attempting to connect electrical wires.
2. When running wires, avoid areas of excessive heat, vibration, pinch or rotation when securing harness to vehicle.
3. Always use a fused (+) positive supply source.
4. This light becomes hot under continuous use. Do not remove or touch the casting for at least 30 minutes after the lamp has been turned off.

1. Locate the wiring harness and mount the switch in a convenient location where it is easily accessible from the drivers seat. **Note:** *The switch will need to be removed from the wiring harness so that the rest of the harness can be routed from the engine bay to the cabin.*
2. Route the wiring harness wire, specifically the fuse and relay, from the positive battery terminal along the firewalls existing wire routes. **Note:** *Tape as necessary to correct slack.*
3. Secure the relay by either drilling or using a pre-existing bolt along the chassis that is not connected to any other wire.
4. Run the switch harness through the firewall preferably through the pre-existing rubber plug that is used to run the OEM wiring harness from the engine bay to fuse box. **Note:** *Reconnect the switch to the wiring harness.*
5. Place the LED plug wire along the fender chassis where it will not get pinched and away from any moving parts (fan, pulleys etc.).
6. Run the attached wire from the LED Light Bar as previously mentioned away from any moving parts.
7. Connect both ends of wiring connectors from LED light bar and wiring harness.
8. Re-connect battery terminals, attach the red (+) wire to battery positive, and the black (-) wire to ground. **Note:** *Add dielectric grease (not supplied).*
9. Turn on the switch to make sure if the light works. If not, please check carefully if the wiring installation is correct.

The diagram illustrates the wiring for a 12V LED light system. It includes a 12V battery, a 20A fuse, a 5A mini fuse, a 12V relay, and three LED lights. The battery's positive terminal is connected to a 20A fuse, which then leads to the positive terminal of the relay. The battery's negative terminal is connected to a common ground point. The relay's negative terminal is connected to the common ground. The relay's positive terminal is connected to the positive terminal of a 5A mini fuse, which then leads to the positive terminal of the first LED light. The negative terminal of the first LED light is connected to the common ground. The positive terminal of the second LED light is connected to the positive terminal of the first LED light, and its negative terminal is connected to the common ground. The positive terminal of the third LED light is connected to the positive terminal of the second LED light, and its negative terminal is connected to the common ground. The diagram also shows a switch with a white (+) and blue (-) terminal, connected to the positive terminal of the first LED light. Labels indicate the use of 5/16" ring terminals for the battery and relay connections. Wire gauge specifications are provided: 14ga for all wires except the switch wire, which is 20ga.

Use 5/16" ring terminals

Battery

20A Fuse

Red(+)

RELAY 12V

Black(-)

Use 5/16" ring terminals

Black(-)

5A mini Fuse

Red(+)

White(+) Blue(-)

LED Light

Red(+)

Black(-)

LED Light

Red(+)

Black(-)

LED Light

FOR ALL WIRE 14ga

-EXCEPT

SWITCH WIRE 20ga



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 INITIAL USE, AND PERIODICALLY IN THE FUTURE 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 GOGGLES DURING THE INSTALLATION PROCESS TO AVOID PERSONAL INJURY.

MAXIMUM TOWING/CARRYING CAPACITY:

The Westin Receiver Hitches will have a visible tow rating label affixed directly on the product. User should never exceed the vehicle manufacturers maximum tow and weight rating regardless of the capacity of the hitch. **FAILURE TO FOLLOW THESE GUIDELINES WILL VOID THE WESTIN WARRANTY AND MAY RESULT IN PERSONAL INJURY AND/OR INJURY TO OTHERS AS WELL AS VEHICLE DAMAGE.**



Westin Automotive Products, Inc.
320 W. Covina Blvd
San Dimas, Ca. 91773