

# Mounting Kit 53352-HOP

F150 4x4 2013-2014

- For the snowplow lights this kit requires:  
800084 or 800085 or 800086 Light Kit,  
800094-MPX (HID bulb), 800034-MPX (H13 bulb)

**Note:** The F-150 snow plow installation is intended for personal use only.

Minimum Required Equipment's:

- Snow plow Outside Air Temperature (OAT) sensor relocation kit (DL3Z-14K073-A) must be installed; kit is available through Ford Parts and Service.
- 145" WB F-150 Super Cab, 4X4 6.2L engine,
- 145" WB F-150, Super Crew, 4X4, 6.2L engine,
- 157" WB F-150 Super Crew, 4X4, 6.2L engine,

For more information, see table below:

List of F-150 (2013-2014) that HOP plow can be installed					
* Snow Plow Weight Analysis					
Vehicle	Trim Level	Option Content	Base Curb Weight (lbs.)		Ballast (lbs.)
			Front	Total	
Super Cab 6.2L, 4X4, 145” F/GAWR- 4050 lbs. R/GAWR-4050 lbs. GVWR-7700 lbs.	XLT Chrome	None	3356	5689	1160
	FX4	None	3373	5771	1100
	Lariat	None	3370	5763	1100
Super Crew 6.2L, 4X4, 145” F/GAWR- 4050 lbs. R/GAWR-4050 lbs. GVWR-7700 lbs.	XLT Chrome	None	3324	5774	1060
	FX4	None	3341	5856	1000
	Lariat	None	3345	5861	1000

\* These snowplow weight limits are based upon a vehicle built with noted trim levels with no additional Ford option content, a total of 300 lb. for a driver plus one front seat passenger (150 lbs each), ballast weight rearward of the rear axle, and additional assumptions for commercially available snowplow assembly weights and mounting location.

Ballast is to be placed 30 inches aft of rear axle.

**Important Note:**

Vehicle must not be operated when over-loaded. A vehicle is over-loaded when the weight of the complete vehicle with aftermarket equipment’s installed, plus driver, passengers and cargo, exceeds either the FGAWR, RGAWR or GVWR established by Ford Motor Company and displayed on the Safety Compliance Certification Label.

The addition of ballast weight placed rearward of the rear axle is required to prevent exceeding FGAWR, and to provide good vehicle braking and handling. The ballast should be attached securely to the vehicle with consideration for the normal driving dynamics of snowplowing, and occupant safety in accidents.



Item	Part #	Description	Quantity
1	53661-D	Lift Frame- Homeowner Plow	1
2	53685-C	Spreader Bar- Homeowner Plow	1
3	53353-D	Mounting Bracket	1
4	53360-A	Inside plate	1
7	50069-C-GA	Lift Channel Galvanized	1
8*	52209-B-GA	Light Antler Galvanized	1
9*	52208-B-GA	Light Brace Galvanized	2
10*	HH-00972-149	3/4" x 2½" UNF Cap screw	1
11	HH-00972-153	3/4" x 3½" UNF Cap screw	1
12*	HH-00973-007	3/4" UNF Thin Collar Lock nut	3
13	52320-A	½" bolt with 14" welded handle	8
14*	HH-00972-090	1/2-20x1.1/2 UNF Cap screw	6
15	HH-00460-002	1/2-20 Hex nut	18
16	HH-00457-001	1/2 Lock washer	18
17	HH-00972-130	5/8-18 x 2 UNF Cap screw	8
18	HH-00457-003	5/8 Lock washer	8
19	HH-00460-001	5/8-18 Hex nut	8
20*	HH-00293-006	1/4" x 1" Cap screw	4
21*	HH-00457-006	1/4" Lock washer	4
22*	HH-00341-002	1/4" Flat washer	4
23*	HH-00294-001	1/4" Hex nut	4
24*	WA-34704-M	Mounting Pin, QLI Ass'y	2
25*	52348-M	Mounting Pin Ass'y	2
26	52373-M	Jack Assembly	1
27	52757-M	Lift Channel Pin Ass'y	1
28	HH-00972-155	3/4" x 4" UNF Cap screw	1

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**Note:** \* These items are not shown on the drawing.

## GENERAL INFORMATION

### **Customer must be aware of following:**

Arctic Equipment Manufacturing Corporation (Arctic) does not assume liability for damage to your motor vehicle resulting from the attachment or use of an Arctic snowplow. The purchaser assumes all vehicle risk associated with the attachment and operation of this snowplow.

The Arctic snowplow you purchase must be used only on vehicles equipped with the manufacturer's snow plow preparation package. Snow plowing without the original plow preparation package may damage your vehicle. The added weight may impair the operation and control of your vehicle. Snow plowing with a vehicle not recommended for that purpose by the manufacturer may void your new vehicle warranty. If your vehicle is not equipped with an original snow plow preparation package, additional equipment may be necessary before snow plowing. Please consult your vehicle and snowplow dealers prior to the purchase and installation of the snowplow. The installation of such parts however is not a full substitute for the original equipment snowplow preparation package.

Before drilling any holes in the firewall or frame, move brake lines, fuel lines and/or electrical wiring from the path of the drill. Brake and fuel lines must also be clear of any fasteners.

All bolts should be installed from the inside of the truck frame so that the lock washers and nuts are accessible for re-tightening.

If a slotted hole in the truck frame is utilized, then a flat washer must be used under the bolt head. Please use LOCTITE®, or similar locking product on ALL mounting hardware (blots, nuts, etc.).

Do not tighten any bolt assemblies until all fasteners and components are installed, unless otherwise specified.

**After first use, re-tighten all mounting bolts**, thereafter check mounting bolt tightness periodically.

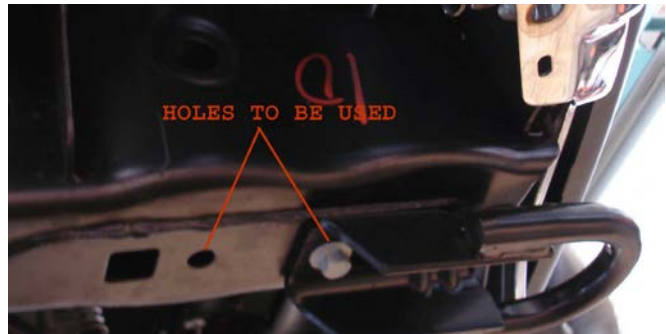
Before proceeding, read instructions carefully and familiarize yourself with the components and hardware.

**INSTALLATION INSTRUCTIONS**

1. You may Remove the bottom splash pan and tow hooks. Note: After installation of mounting kit and spreader bar, return a splash pan, tow hooks and hardware to customer.
2. Install inside frame plate (4) and slide mounting bracket (3) against frame as show on the drawing (use only back tow hook hole and exiting hole in the frame). Secure mounting bracket (3) to vehicle frame using ½" lock washers (15) and ½" hex nuts (16). Be sure that mounting bracket front and back is tight against vehicle frame before drilling side holes (4 per vehicle frame side).

Using existing holes in the mounting bracket (3) (two in the front and two at the back) drill 17/32" hole in the vehicle frame. After drilling install ½" welded bolts (13) and secure using ½" lock washers (16) and ½" hex nuts (15). Do not tighten any hardware until instructed to do so.

(Install welded bolts on the back through existing in the vehicle frame as shown on this picture.)



3. Insert the spreader bar (2a) between mounting bracket side plates. Insert 5/8" x 2 " bolts (17) from inside spreader bar (2a) through mounting bracket holes and secure using 5/8" lockwasher (18) and 5/8" nuts (19).

Note: Please use LOCTITE®, or similar locking product on ALL mounting hardware(blots, nuts, etc.).



4. Torque all fasteners according to torque chart.
5. Slide lift frame (1a)(1b) inside of spreader bar (2a). Insert mounting pin (25) in the top holes of the spreader bar (2a).

6. Install light antler (8) and light braces (9) using ½" x 1½" bolts (14), ½" lockwashers (15) and ½" hex nuts (16). Install lights so that the light mounting stud goes through both antler (8) and the brace (9). Tighten all light mounting hardware.

7. Install lift channel (7) and front mount pump (from hydraulic kit) or hydraulic cylinder to lift frame (1a)(1b) using 3/4" x 3½" bolts (11) and 3/4" locknuts (12). Use 3/4" x 2½" bolt (10) and 3/4" lock nut (12) to attach lift channel (7) to front mount pump or hydraulic cylinder. Do not over tighten this assembly as it must be able to pivot.

8. Use 1/4"x1" bolt (20), 1/4" flat washer (21), 1/4" lock washer (22) and 1/4" hex nut (23) to fasten blade guides (27) to plow.

9. Return any unused items to the customer so that the vehicle can be returned to its original condition if the snowplow is removed.
10. See separate installation instructions for the hydraulic power unit, wiring and controls.

Torque Chart (Ft. Lb)		
Size	Grade 5 Bolt	Grade 8 Bolt
¼ - 28	8	11
5/16 - 24	15	22
3/8 - 24	28	40
7/16 - 20	44	63
½ - 20	69	97
5/8 - 18	138	195
¾ - 16	241	341

Note: Torque values are for plated bolts only.

**Q-214**



## **SVE BULLETIN**

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Toll-free: (877) 840-4338

QVM Bulletin: Q-214

Date: 25 October, 2012

### **F-150 6.2L Snow Plow Application**

**Model Affected:** 2013 MY and later F-150 Super Cab and Super Crew pick up, with 6.2L engine and XLT, FX, Lariat and Platinum trim levels only.

**Description:** The 2013 MY and later F-150 Super Cab and Super Crew pick up, with 6.2L engine and XLT, FX, Lariat and Platinum trim levels are snow plow capable when the Outside Air Temperature (OAT) kit is installed. F-150 snow plow installation is intended for personal use only.

**Details:** A Snowplow OAT kit (DL3Z-14K073-A) is available through Ford Parts and Service. Outside air temperature information from the OAT sensor is required to maintain automatic interior climate control settings. Failure to relocate the OAT sensor with the installation of a snow plow will significantly degrade the vehicles ability to maintain automatic interior climate control settings, as well as display an incorrect outside air temperature reading.

Installation of this Kit is required if a snow plow is to be installed. See the additional attached pages for installation information.

Please note that **only 2013 MY and later F-150 Super Cab and Super Crew pick-up, with 6.2L engine and XLT, FX, Lariat and Platinum trim levels are capable of snow plow installation.** This bulletin does not apply to other 2013 MY F-150 pick-ups or previous model years.

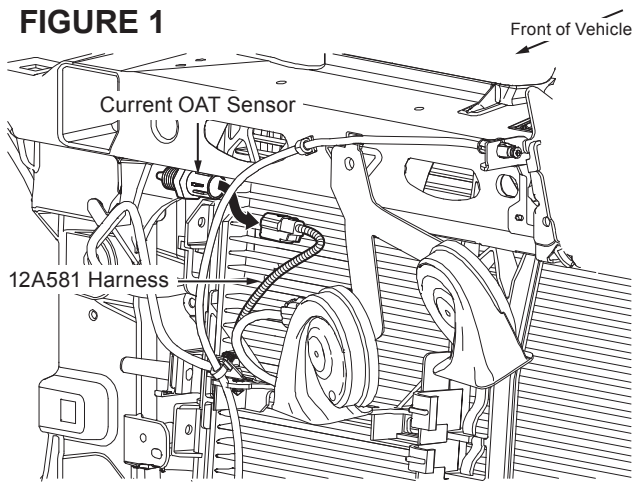
Vehicle content will affect vehicle plow capacity. Upper and lower plow weight recommendations and rear ballast load requirements are listed in the 2013 MY 6.2L F-150 Snowplow Weight Chart. The 2013 F-150 Option weight chart lists the additional weight each option adds to both the front and total base curb weight.

#### **Required Part Number:**

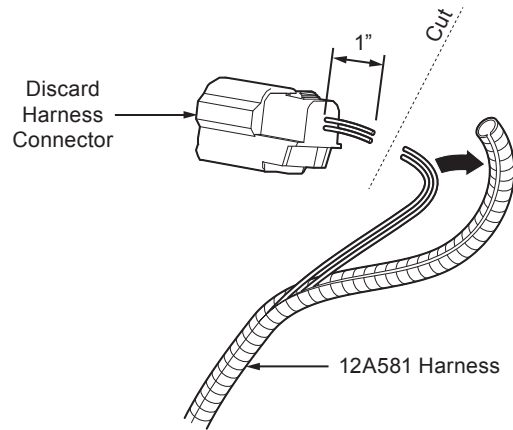
<b>Part</b>	<b>Part Number</b>
OAT Sensor Kit	DL3Z-14K073-A



**FIGURE 1**

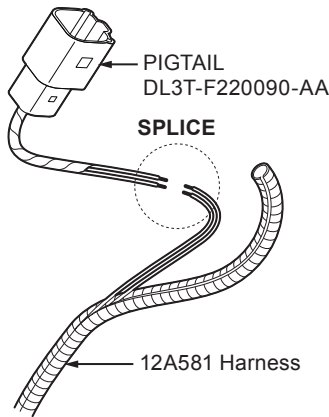


**FIGURE 2**

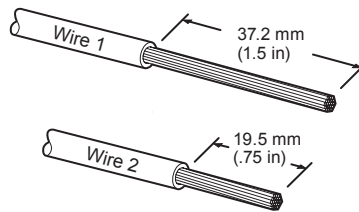


**FIGURE 3**

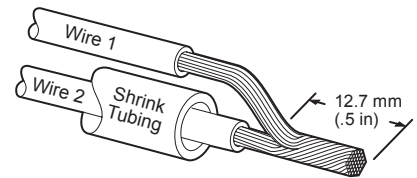
**Recommended splicing method:**



1. Disconnect battery ground cable.
2. Strip wires to appropriate length.

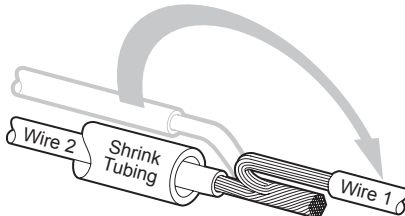


3. Install heat shrink tubing.
4. Twist wires together.
5. Solder wires together.

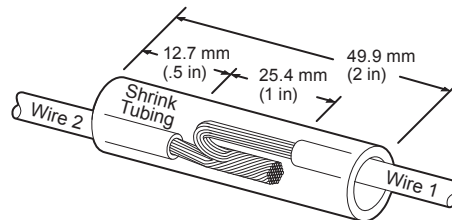


NOTE:  
Use resin core mildly-activated (RMA) solder.  
Do not use acid core solder.

6. Bend Wire 1 back in a straight line.



7. Evenly position heat shrink tubing over wire repair.



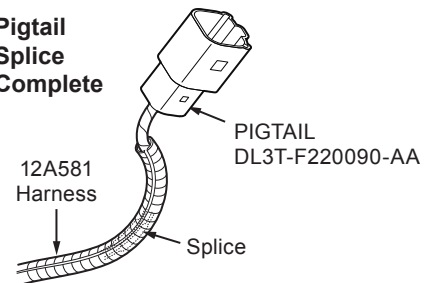
NOTE:  
Overlap tubing on both wires.

8. Use heat gun to heat the repaired area until adhesive flows out of both ends of heat shrink tubing.
9. Reconnect battery ground cable.

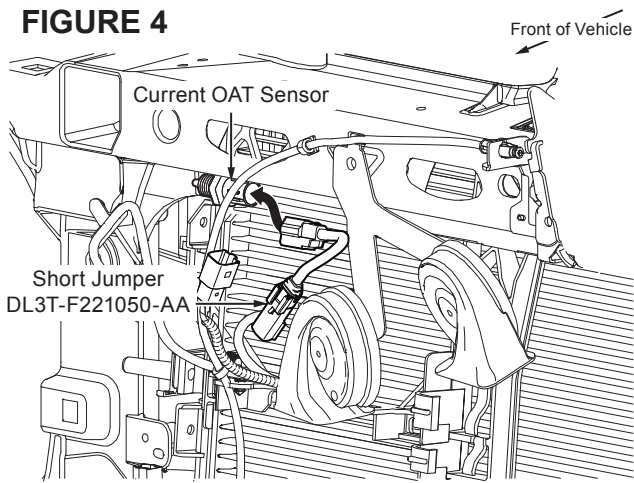


NOTE:  
Wait for solder to cool before moving wires.

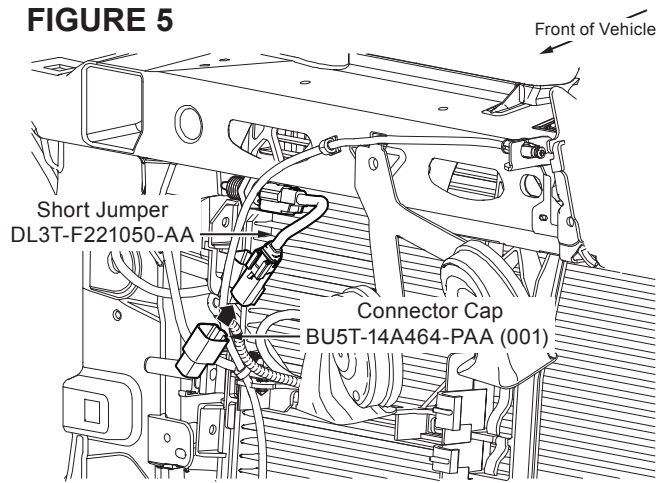
**Pigtail Splice Complete**



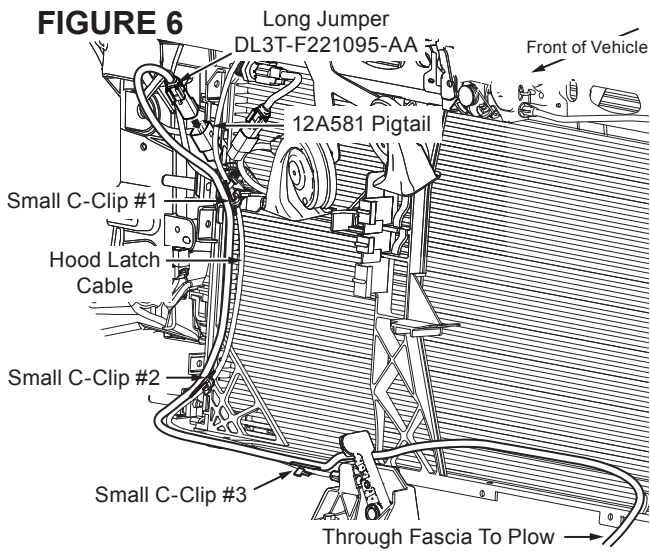
**FIGURE 4**



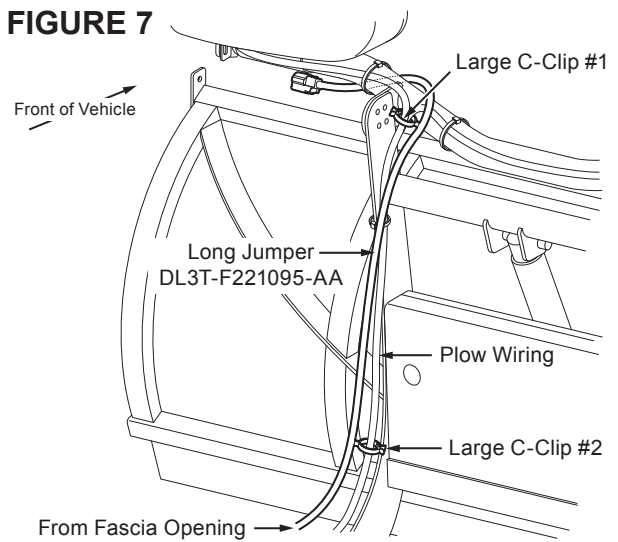
**FIGURE 5**



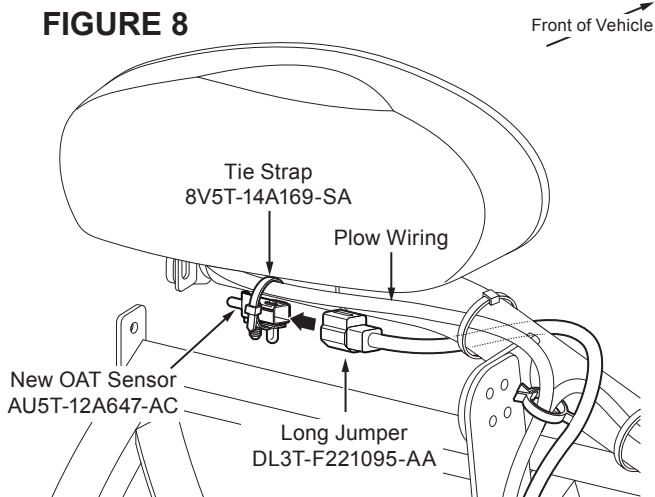
**FIGURE 6**



**FIGURE 7**



**FIGURE 8**



**FIGURE 9**

