

A Division of The Toro Company P.O.Box 787 Iron Mountain, MI 49801-0787 ISO 9001: 2008 REGISTERED bossplow.com

TO: BOSS DEALERS

DATE: 12/2/2020

SUBJECT: 2020 Ford Super Duty Headlight Harness

The following is revised Service Bulletin SV154 from BOSS Snowplow Technical Support. Please make sure this bulletin is distributed to all employees who sell or service BOSS Products. We have distributed this service bulletin to all registered Distributors and Sub-distributors with dedicated e-mail addresses.

Thank you,

BOSS Snowplow Technical Support



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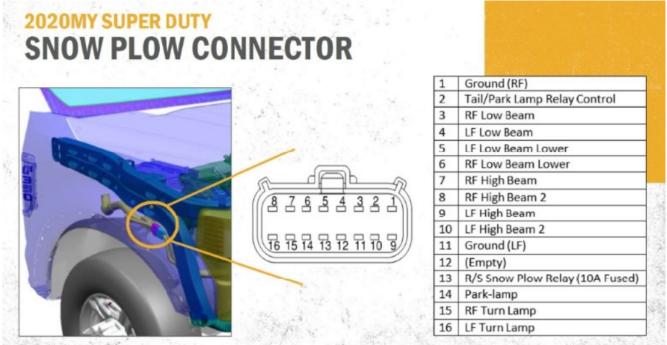
<u>REGARDING:</u> 2020 Ford Super Duty Snowplow Installations

Ford has made improvements to their factory wiring for 2020 model year Super Duty trucks to accommodate snowplow installations. Specifically, they have added a dedicated 16-pin connector that provides signals for snowplow headlight control (high beam, low beam, headlight ground, right turn, left turn, and park), as well as an integrated 12V keyed-ignition source. Due to these improvements, BOSS Products has developed a new vehicle-side harness to integrate with Ford's snowplow upfitter connector. This harness will be used instead of the vehicle-side harness included in BOSS control kits. Please see details below regarding installations on trucks equipped with halogen or LED headlights, as they have different requirements. Part numbers for the new harness and headlight adapter are as follows:

- MSC25002 KIT-WIRING, RT3 SH2, 12V, FORD F250-550, 20+
- MSC21838 MAIN UPFITTER HARNESS, FORD SUPER DUTY, 2020+
- MSC22146 LIGHT ADAPTER, FORD SUPER DUTY W/ LED, 2020+

New Snowplow Upfitter Connector:

Ford's snowplow connector can be accessed through the passenger side fender after removing the inner fender liner. The plug will be clearly visible and is attached to the sheet metal support structure of the fender.



Installation on 2020 Super Duty with Halogen Headlights:

There are two options to perform an installation on halogen-equipped Super Duty trucks.

- 1. Use a typical BOSS vehicle-side wiring harness (MSC04316) in combination with Ford Headlight Adapter (MSC10230). This installation is the same as 2017-2019 Super Duty trucks
- 2. Use new vehicle-side harness (MSC21838). No headlight adapter or direct headlight connection is required. Detailed instructions will be provided with this harness.

Installation on 2020 Super Duty with LED Headlights:

LED-equipped Super Duty trucks require new vehicle-side harness (MSC21838) in combination with new headlight adapter (MSC22146). The vehicle-side harness will connect to Ford's snowplow upfitter connector. A headlight adapter will need to be connected to each headlight. Access to the plug on each headlight can be gained by removing the forward-most portion of the wheel liner. There will be a single wire from each headlight adapter that will plug into the vehicle-side harness (MSC21838). Detailed instructions will be provided with these parts.

Headlight Switching Procedure:

Some 2020 and newer Super Duty trucks have exhibited headlight illumination failures while switching the Truck/Plow toggle switch. Prior to switching the Truck/Plow switch to the PLOW position, the truck's headlight selector switch must be switched to the **OFF** position. After toggling to PLOW, return the truck's selector switch to ON or AUTO. If the plow is not connected to the truck, DO NOT place the truck/plow switch in the PLOW position.

Upfitter Relay Box Wire Location:

Users have the option to utilize the factory Upfitter Switches in place of the Truck/Plow toggle switch on models that are equipped with such switches. The Upfitter Relay Box has moved to the passenger side of the engine compartment (previously located behind the brake booster on the driver side). There is a bundle of 10 blunt-cut wires, 6 of which are tied to the switches in the cab. To utilize one of these switches, locate the two wires that would typically tie to the Truck/Plow switch. One of the two wires, Black with Red tracer stripe, should be taped and tucked away. The remaining solid Black wire will tie to the Upfitter Switch input wire. With a keyed ignition source now included in the Snowplow Upfitter Connector, it is no longer necessary to tie into these wires for a keyed-on source. However, if installing the standard MSC04316 into a Halogen truck, a keyed source must still be used. Locate the Brown wire (12V Keyed Ignition) in this bundle and tie it to the Black/Red wire in the BOSS MSC04316 harness.

Switches	Circiut	Color	Fuse #	Rating
Aux 1	CB117	Brown / Green	F10	25A
Aux 2	CB114	Violet / Orange	F9	25A
Aux 3	CB116	Blue / Green	F8	25A
Aux 4	CB113	Gray / Brown	F7	25A
Aux 5	CB115	Brown / Blue	F1	40A
Aux 6	CB118	Gray / Orange	F2	40A

If you have any concerns or questions about this service bulletin please feel free to contact BOSS Technical Support at (800) 286-4155 option 2 or e-mail at <u>techservice@bossplow.com</u>