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TO: ALL BOSS DISTRIBUTORS

DATE: April 24, 2007

SUBJECT: Service Bulletin SV72 *** REVISED ***

The following page is Service Bulletin SV72 from The BOSS Snowplow Technical Support. This Service Bulletin is been revised as of 4/24/07. All previous copies of SV72 should be replaced. Please make sure this bulletin is distributed to all employees and sub-distributors who sell or service The BOSS Snowplow.

We have distributed this service bulletin to all registered sub-distributors with dedicated fax lines or e-mail addresses.

Thank you,

BOSS Snowplow Technical Support



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**SERVICE BULLETIN
SV72
April 24, 2007**

***** REVISED *****

REGARDING: 2008 Ford Super Duty Electrical

The initial build of all 2008 Ford Super Duty trucks have a Smart Power Distribution Junction Box (SPDJB) that detects electrical fault codes on the low beam circuit. These trucks may treat toggling between truck and plow as a fault and headlamp function will shut down. To accommodate snowplow headlights on these trucks Ford has released SVE Bulletin # Q-155-R1.

Trucks without the updated SPDJB will turn power off to the headlamp circuit when switching between Ford headlamps and snowplow headlamps, and vice-versa when the Ford headlamp switch is in the low beam position (or "auto-lamps" if so equipped). The SPDJB will not affect snowplow headlamp operations with Ford headlamp switch in either the "OFF" position, or "ON" in park-lamp position, or "ON" with high beams activated.

Trucks with Snowplow Prep Package (473) or Camper Package built after 4/18/07 will have an updated SPDJB that will not be affected by the addition of snowplow headlights. Trucks built before 4/18/07 must have the SPDJB reprogrammed at Ford dealers starting the week of April 23rd to ensure the headlights do not shut down. There will be no charge for reprogramming the SPDJB. If there are any questions at the dealer refer them to Ford's SVE Bulletin # Q-155-R1.

Also, the plow turn signals will require power directly from the battery through a Turn Signal Relay Kit. Headlight Adapter MSC09993 (includes Turn Signal Relay Kit) will be required for trucks with H13 (9008) headlight bulbs and trucks with sealed beam headlights will require Headlight Adapter MSC04599 and Turn Signal Relay Kit MSC09991.

If you have any concerns or questions about this service bulletin please feel free to contact BOSS Technical Support at (906) 776-3500.



SVE BULLETIN

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Bulletin: Q-155-R1

Date: February 28, 2007

Revised: April 20, 2007

Snowplow Headlamp Control with Smart Junction Box

Addressed To: Snowplow manufacturers and their suppliers of headlamp control systems.

Models Affected: 2008 Model Year F250/350/450/550

SPDJB: System Description

Smart Power Distribution Junction Box (SPDJB or SJB) was incorporated in the 2008 model year F250/350/450/550. Its job is to provide protection against excessive current loads, typical of a short circuit, by shutting down circuit function. The "low-beam" circuit (or "auto-lamps" if so equipped) is protected by SPDJB integrated circuit strategy that shuts down headlamp function when it detects excessive, predetermined, current levels (i.e. larger than a 55-watt bulb load) or short-to-ground.

The Affect on Aftermarket Snowplow Headlight Systems

The SJB strategy may interpret the switching between Ford headlamps and aftermarket snowplow headlamps, and vice-versa, as a short-to-ground, causing the power feeding a headlamp circuit through the SJB to be turned off. The following are examples of normal snowplow headlamp activity where this may occur.

- Disconnecting the snowplow headlamp connector for a functional-test during installation. If wired for "automatic" operation then the snowplow headlamp current is immediately diverted to the Ford headlamps. SPDJB interprets the immediate in-rush current to a cold Ford lamp as a short-to-ground.
- If wired for "manual" operation, identified by a separate aftermarket headlamp switch, then any switching between the Ford and snowplow headlamps after one headlamp system has already been illuminated through the SJB will trigger a shut-down.
- Normal daily snowplow hook-up if Ford headlamp is ON in "low-beam" (or "auto-lamps" active if so equipped).

The Effect of an SPDJB Shut-down Event

- Full Ford headlamp function can be restored by turning the Ford headlamp switch off and back on again. However, a short-to-ground DTC code is flagged and will not clear until approximately 80 key-on ignition starts. The codes are B2A2F (right-front low-beam) and B2A31 (left-front low-beam). Also, the event is stored and after 200 events a Ford dealer will be required to clear codes and return normal headlamp switch function. This repeats at 400 events, and at 600 events the SJB will require replacement.
- Open circuits will not have an affect on SJB diagnostics during normal operation.

Solution

On 04/23/07, customers may have their Ford dealer reprogram the Smart Junction Box (SJB) with a new calibration using Technical Service Bulletin TSB 07-09-01. After reprogramming no other operator intervention is required. New vehicles from KTP with "Snowplow Prep Package Option" (Order Code 473), or "Snowplow/Camper Prep Option", and with a build date of 4/18/07 or later, already have this new calibration included.

NOTE: Relay-driven functions such as the Ford high-beams or park-lamps are not monitored by SJB control strategy. Therefore, if required prior to applying the TSB, the snowplow can still be used because the SJB will not affect snowplow headlamp operations with the Ford headlamp switch in either the "OFF" position, or "ON" in park-lamp position, or "ON" with high-beams activated.