BOSS SNOWPLOW

Cold Front Integration Kit

MBX+ or VBX+ V-Box Spreader

Model No. MSC25022

Installation Instructions

BOSS Products limited consumer warranty and BOSS Products commercial warranty policies are located at www.bossplow.com.

Patent: https://www.ttcopats.com/.

Safety

Manual Conventions

This manual identifies potential hazards and has safety messages identified by the safety-alert symbol, which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



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This manual uses 2 words to highlight information. **Important** calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

Safety Alert Classifications

The safety-alert symbol shown in this manual and on the machine identifies important safety messages that you must follow to prevent accidents.

Safety-alert symbol appears above information that alerts you to unsafe actions or situations and is followed by the word **DANGER**, **WARNING**, or **CAUTION**.

⚠ DANGER ⚠

Danger indicates an imminently hazardous situation which, if not avoided, *will* result in death or serious injury.

⚠ WARNING ⚠

Warning indicates a potentially hazardous situation which, if not avoided, *could* result in death or serious injury.

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Iron Mountain, MI 49801

Register at
www.bossplow.com

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Safety Alert Classifications (continued)

⚠ CAUTION ⚠

Caution indicates a potentially hazardous situation which, if not avoided, *may* result in minor or moderate injury.

General Safety

Installing this kit will change the weight of your vehicle. Ensure that your vehicle does not exceed the front gross-axle-weight rating (FGAWR), at any time. You may need to weigh the vehicle and add ballast or limit the payload of the vehicle to compensate.

Preparation

Ensure that only trained personnel install and perform maintenance on the equipment.

Never disable, remove, or relocate any sensors or other components related to the operation of the air bags in your vehicle.

Always follow the vehicle manufacturer's recommendations relating to snowplow or spreader installation. For recommended vehicle models, refer to the BOSS product selector tool at www.bossplow.com.

Installation

⚠ DANGER ⚠

Vehicle batteries can cause dangerous electrical shocks that could lead to severe burns or death.

Remove the key from the vehicle and disconnect the battery before installing this kit.

⚠ WARNING ⚠

Vehicle engines contain moving parts and can become extremely hot, capable of causing severe burns and serious bodily harm.

Shut off the engine and allow it sufficient time to cool down before installing this kit.

IMPORTANT

Identify circuits with a test lamp before splicing into any electrical circuit to prevent vehicle damage.

IMPORTANT

Ensure that all wiring is secured in a position that avoids hot or moving parts, and is out of the operator range to prevent damage to the vehicle or equipment.

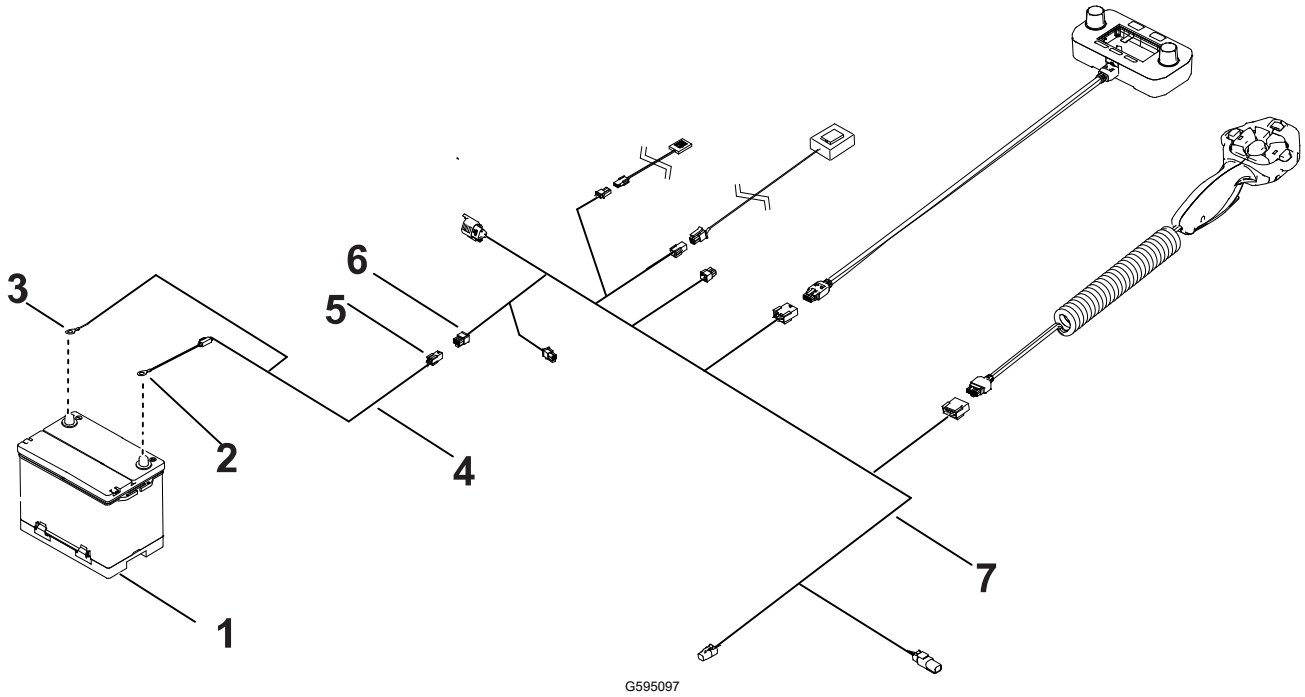
Note: Apply dielectric grease to all electrical connections.

Note: Determine the left and right sides of the machine from the normal operating position.

Note: Install the vehicle Wiring Kit before installing this kit. Do not install the power signal harness.

Removing the Power Signal Harness

If Equipped

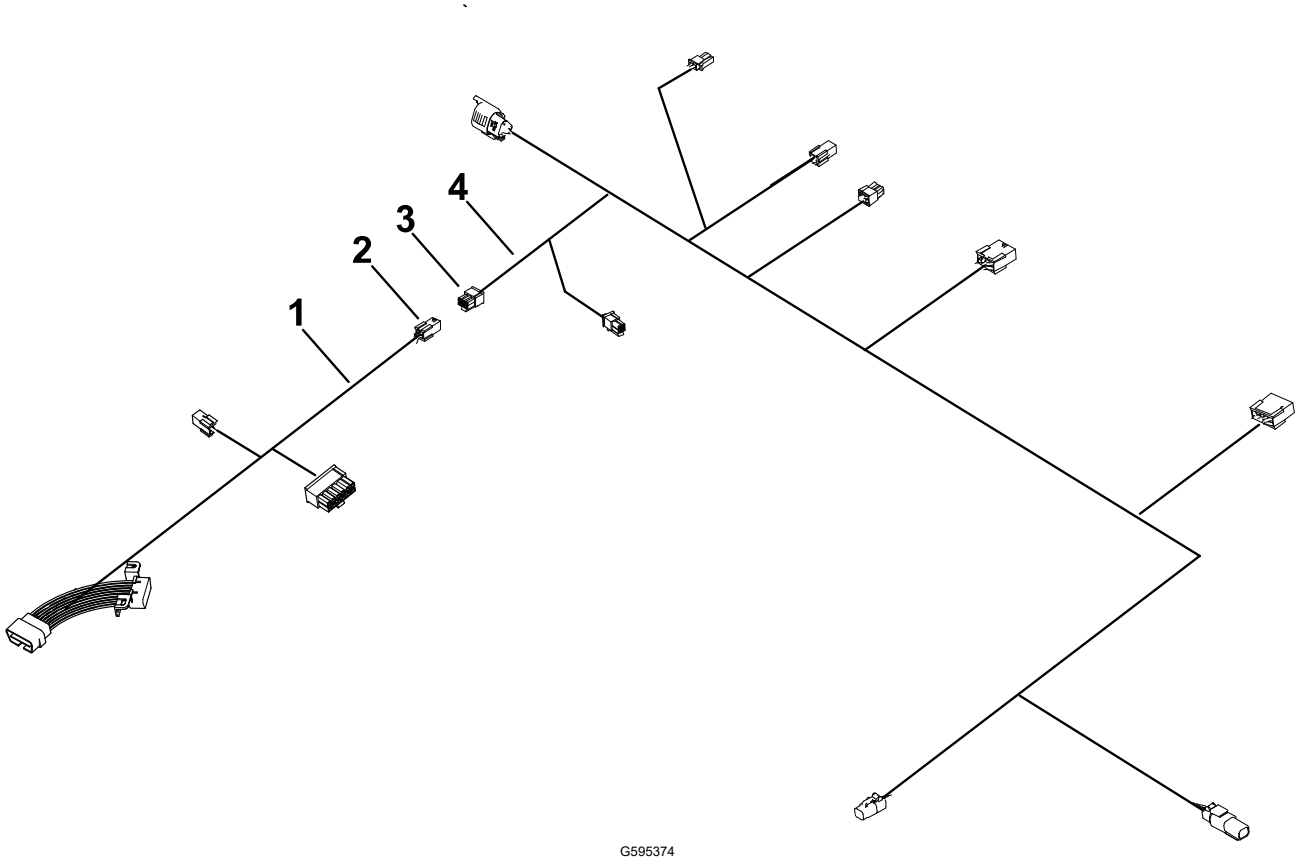


1. Battery
2. Red terminal ring
3. Brown terminal ring
4. Power signal harness
5. Power signal harness vehicle integration plug
6. In-cab harness vehicle integration plug
7. In-cab harness

1. Under the steering column of the vehicle, locate the Vehicle Integration plugs on the in-cab harness and power signal harness.
2. Disconnect the power signal harness plug from the in-cab harness plug.
3. Open the vehicle hood, remove the brown ring terminal of the power signal harness from the battery, then remove the red ring terminal.
4. Clip any cable ties securing the power signal harness to the vehicle.
5. Remove the power signal harness from the vehicle.

Installing the Cold Front Integration Harness

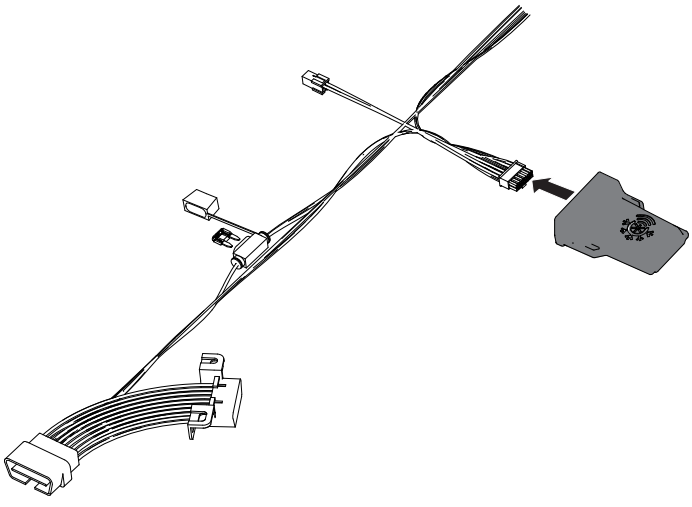
1. Under the steering column, connect the new cold front integration harness 6-pin connector to the in-cab harness vehicle integration plug.



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(1) Cold front integration harness
(2) Cold front integration harness 6-pin connector
(3) In-cab harness vehicle integration plug
(4) In-cab harness

2. Connect the new controller assembly to the cold front integration harness.

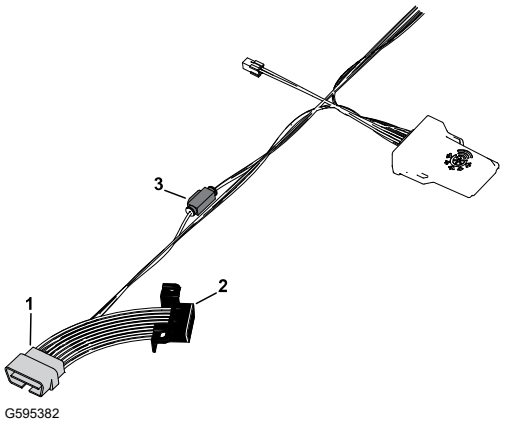


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3. Locate and remove the vehicle OBDII diagnostic port from under the steering column.

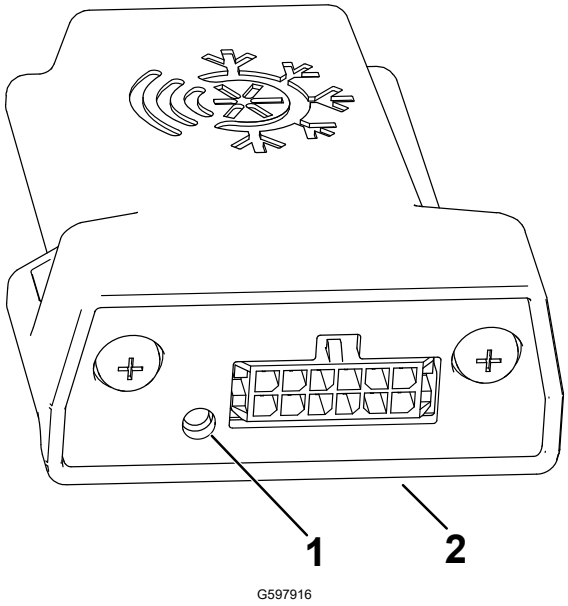
4. Connect the red connector (1) on the integration harness to the OBDII diagnostic port.
5. Install the integration diagnostics connector (2) into the bracket where the vehicle OBDII diagnostic port was previously located.
6. Use cable ties to secure all wiring and the controller assembly, avoiding any moving parts.

   Note: The new Cold Front integration fuse (3) and controller assembly should be accessible for future diagnostics.



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Troubleshooting



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(1) LED light

(2) Controller assembly module

The status LED light is off.

Possible Cause	Corrective Action
The module has no power.	1. Check the fuse. 2. Verify the connection to the vehicle OBD2 port is secure.
The module does not have key switch power.	1. Turn on the vehicle. 2. Verify the connection to the in-cab harness is secure. 3. Verify the key power source.

The status LED light is orange.

Possible Cause	Corrective Action
The module is in diagnostic mode.	1. Disconnect the diagnostic cable or close diagnostic program. 2. Turn the vehicle off and then back on.
The module is missing the application firmware.	Contact an Authorized Service Dealer to program the module with the application firmware.

The status LED light is red.

Possible Cause	Corrective Action
The voltage is too low.	Charge or replace the battery or alternator.

The status LED light is slowly blinking green.

Possible Cause	Corrective Action
The module is not connected to the in-cab harness.	Connect the module to the in-cab harness.
Other BOSS devices are not connected.	1. Connect all of the BOSS controllers and modules. 2. Check the fuses and connections. 3. Contact an Authorized Service Dealer if all of devices are connected and receiving power.

The status LED light is blinking green rapidly.

Possible Cause	Corrective Action
The module is not connected to the vehicle OBD2 port.	1. Check the connection to OBD2 port. 2. Install the module on an OBD2 supported vehicle.


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