Form No. MSC08280 Rev A

Wiring Kit

2025 and After Dodge Ram 25/35/45/5500

Part No. MSC25019

Installation Instructions

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

Patent: www.ttcopats.com.

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

⚠ 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.

⚠ DANGER

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

Disconnect your battery before installing this kit.

Note: Apply dielectric grease to all electrical connections.

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

1. Locate the vehicle upfitter wires in the engine compartment under the vehicle fuse panel; refer to your vehicle *Owner's Manual*.
2. Locate the upfitter wires on the controller wire harness; refer to Schematics (page 4).
3. Connect the yellow wire from the wire harness to the white/yellow park light upfitter wire on the vehicle.
4. Connect the violet wire from the wire harness to the white/violet left turn-signal upfitter wire on the vehicle.
5. Connect the pink wire from the wire harness to the violet/brown right turn-signal upfitter wire on the vehicle.
6. Connect the blue wire from the wire harness to the beige/violet high-beam upfitter wire on the vehicle.
7. Connect the red wire from the wire harness to the beige/gray low-beam upfitter wire on the vehicle.

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Iron Mountain, MI 49801

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8. Connect the black wire from the wire harness to the black/violet enable upfitter wire on the vehicle.
9. Ensure that the vehicle firewall is clear of obstructions.

⚠ WARNING

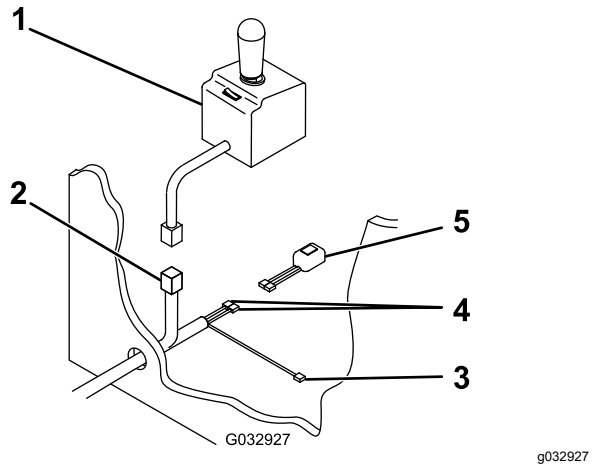
Using a drill without wearing eye protection may allow debris to enter the eye, causing personal injury.

When drilling, always wear eye protection.

10. Drill a 3 cm (1-1/4 inches) diameter hole through the firewall on the driver side of the vehicle.

    Note: The hole should be in an easily accessible area.
11. Insert the split rubber grommet into the hole.
12. Pull the plow controller connector, black/red wire, and 2 black wires into the vehicle cab through the hole in the firewall.

    Important: **Ensure that all wiring is secured in a position that avoids hot or moving parts to prevent damage to the vehicle or plow.**



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Figure 1

1. Plow controller
2. Controller connector
3. Black/red wire
4. Black wires
5. Headlight toggle switch

13. Connect the 2 black wires to the headlight toggle switch.
14. Determine where you will mount the headlight toggle switch and clean the area thoroughly.

    Note: Allow the area to dry completely after cleaning.
15. Remove the adhesive backing and press the toggle switch to the clean area of the dashboard for 30 seconds.
16. Plug the controller connector into the plow controller.
17. Mount the plow controller.

    Note: Mount the controller in the cab in a dry area where it does not interfere with vehicle operation or visibility.

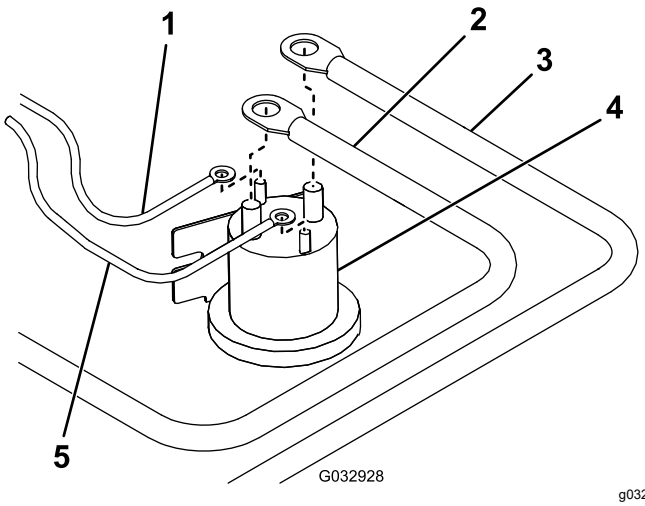
⚠ DANGER

The controller could cause serious injury if contacted during a crash.

Mount the controller in a location that vehicle occupants will not contact during a crash.

18. Connect the black/red wire to a keyed 12 V + ignition source.

    Note: Connecting the wire to a source that is not keyed can cause the battery to drain.
19. Connect the white/black wire from the wire harness to the small post on the pump solenoid.



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Figure 2

1. White/black wire
2. Battery cable
3. Red power/ground cable
4. Pump solenoid
5. Brown wire

20. Connect the brown wire from the wire harness to the other small post on the pump solenoid.

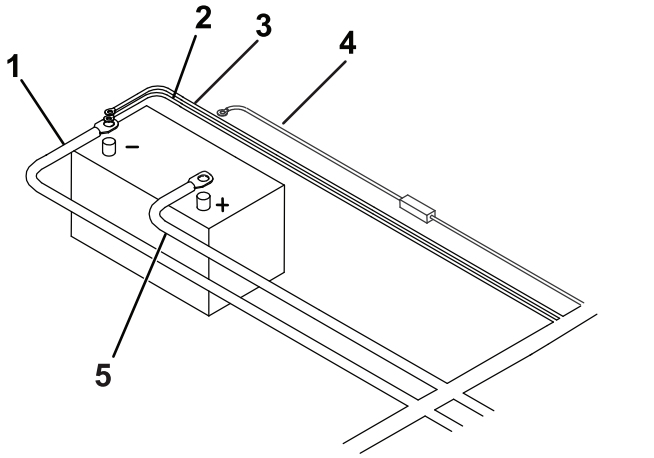
    Note: The wires may go on either small post, but should not share a post.
21. Mount the pump solenoid inside the engine compartment of the vehicle, ensuring that it stays in an upright position and does not contact the body, hood, or other conductive material on the vehicle.
22. Connect the red power/ground cable to the large post on the pump solenoid.

23. Connect the battery cable to the other large post on the pump solenoid.

    Note: The wires may go on either large post, but should not share a post.

24. Connect the black power/ground cable to the negative (-) battery terminal.

    Note: For 2019 and newer vehicles, grounding to the engine block is recommended.



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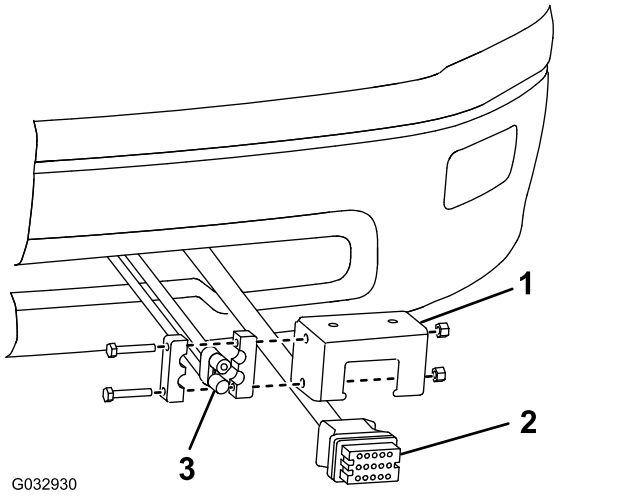
Figure 3

1. Black power/ground cable
2. Brown wire
3. White/yellow wire
4. Red/white fused wire
5. Red power/ground cable

25. Connect the brown wire to the negative (-) battery terminal.
26. Connect the white/yellow wire to the negative (-) battery terminal.
27. Connect the free end of the battery cable to the positive (+) battery terminal.

    Note: All 2019 and newer Ram HD and Chassis Cab trucks contain a high amperage power point (HAPP) at the battery, rated for 300A.

28. Connect the red/white fused wire to the positive (+) battery terminal.
29. Mount the truck-side, wire-harness plow connector to the lower part of the bumper using the control-harness mounting bracket.



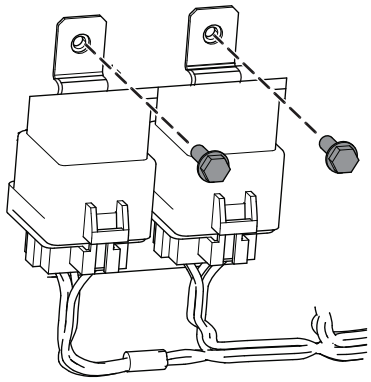
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Figure 4

1. Control-harness mounting bracket
2. Plow connector
3. Power/ground connector

30. Mount the black and red power/ground connector to the control-harness mounting bracket.
31. Mount the relay pack to the inside of the engine compartment using 4 sheet-metal screws.

    Note: Ensure that the relay pack is mounted in the upright position.



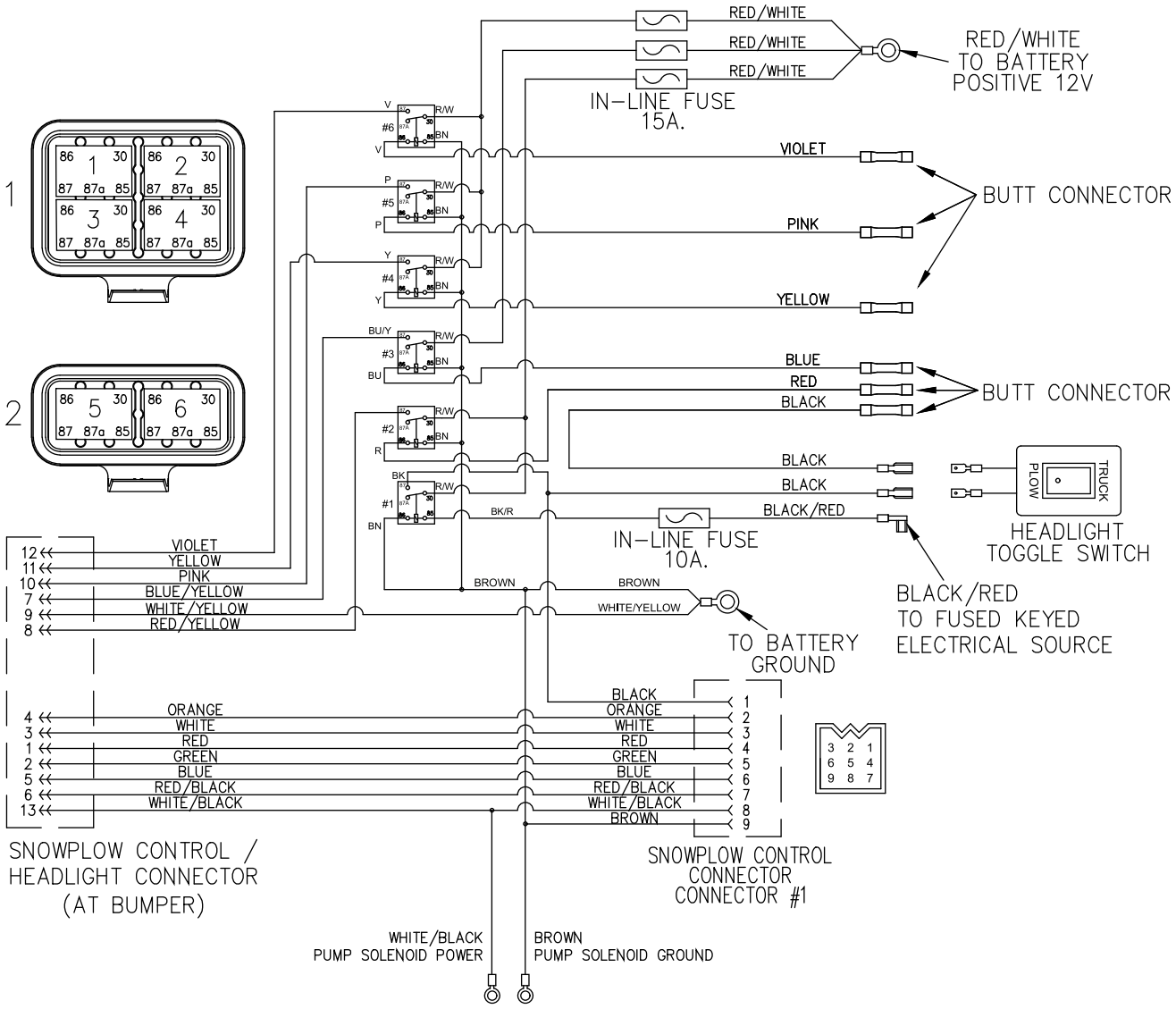
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Figure 5

32. Secure the wire harness with cable ties.

Schematics

FUNCTION	BOSS WIRE COLOR	RAM WIRE COLOR
PARK	YELLOW	WHITE/YELLOW
LEFT TURN	VIOLET	WHITE/VIOLET
RIGHT TURN	PINK	VIOLET/BROWN
HIGH BEAM	BLUE	BEIGE/VIOLET
LOW BEAM	RED	BEIGE/GRAY
ENABLE	BLACK	BLACK/VIOLET



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Truck Side Electrical Schematic (Rev. 0)