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78490 GM Harness Kit

Installation Instructions

GM HARNESS KIT INSTALLATION

Prior to installing this kit, consult GM UI Bulletin #124b for vehicle models/years affected. This harness kit is for GM vehicles listed in the bulletin equipped with the following:

- Snowplow Prep Package (RPO VYU), and
- VYU Snowplow Jumper Harness, GM PN 84043394.

Vehicle Side Connections:

1. Following the recommended splicing procedure, splice the black wire from the GM Vehicle Harness to the pink insulated butt splice installed on the vehicle harness assembly.
2. Using the supplied splices and heat shrink tubing, splice the orange wire from the GM Vehicle Harness to the white/yellow wire on the vehicle harness assembly.
3. Route vehicle side harness assembly away from any sharp or hot surfaces to the area where the vehicle cable assembly exits the grille. Cable tie as needed.

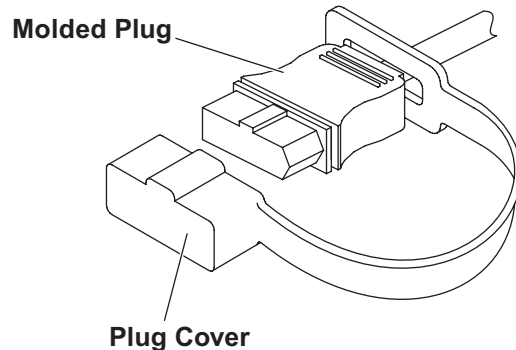
Plow Side Connections

1. Route plow side harness away from any moving parts along the plow cable assembly to the pump motor.

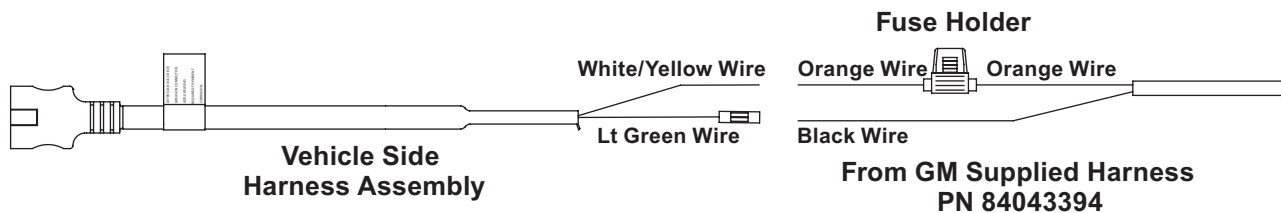
2. Connect the light green wire from the plow side harness assembly to the pump motor NEGATIVE (-) terminal.
3. Connect the white/yellow wire from the plow side harness assembly to the pump motor POSITIVE (+) terminal.
4. Tighten to 15 in-lb.
5. Cable tie the harness assembly to the plow cable assembly as required.

Plug Cover Installation

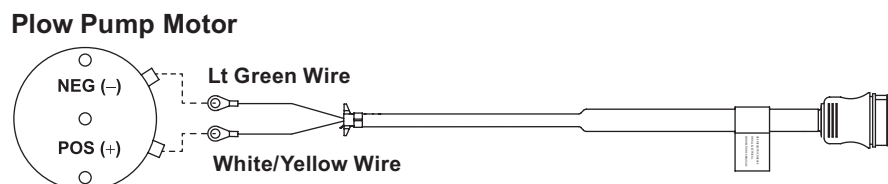
1. Install plug cover onto harness assembly. Place the plug cover over the molded plug when snowplow is not in use.



Vehicle-Side Connections



Plow-Side Connections

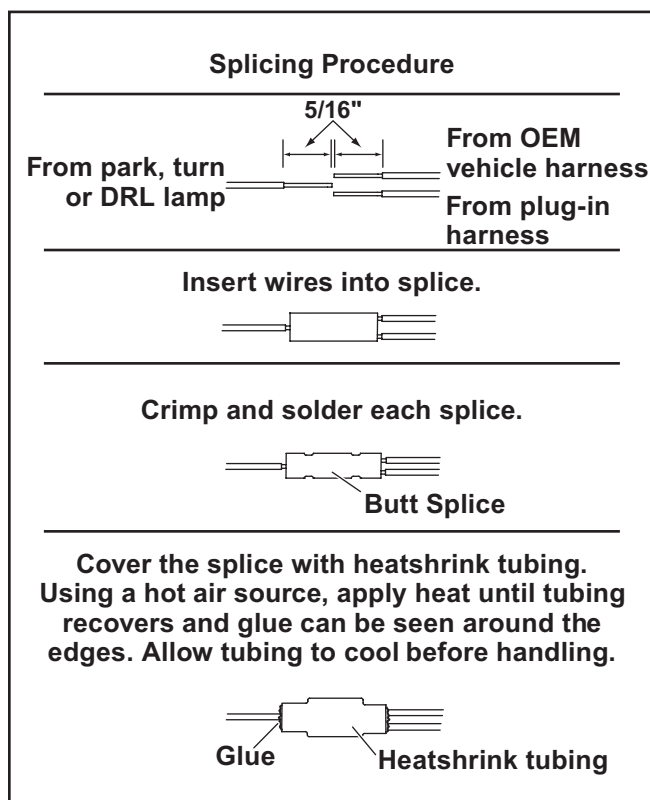


78490

RECOMMENDED SPLICING PROCEDURE

1. Locate the wire to be spliced into.
2. Cut the wire at least 1-1/2" from any other splice, connector, or terminal. If wires are covered by tubing or braid, remove enough of it to achieve the minimum clearance required.
3. Strip away 5/16" of the insulation from the ends of the wires to be spliced.
4. Slide two wires into one end of the supplied parallel splice.
5. Place a piece of heatshrink tubing (3/16" x 1-1/4") over the remaining wire to be spliced. Cut the tubing into 1-1/4" lengths if required.
6. Insert the wire into the open end of the splice and crimp using an appropriate crimp tool. One or two crimps may be necessary to ensure a good connection. No wire strands should be visible outside of the splice.
7. Preheat a soldering tool for at least one minute to help promote even solder flow.
8. Apply heat to the splice. Avoid heating too close to the insulation. Apply solder to the wires, using just enough solder to produce an even flow through the splice. **Use rosin core solder ONLY. Do not use acid core solder.**
9. Check circuits for continuity.
10. Cover the splice with heatshrink tubing. The tubing should extend beyond the splice on both sides.
11. Using a hot air source, starting in the center and working to either side, apply heat until the tubing recovers and glue can be seen around the edges. Allow the tubing to cool before handling.

NOTE: The splices supplied will accommodate 18-gauge wires as shown. For larger-gauge wires, cut the wire, strip the ends 3/8" to 1/2" and twist together. Apply solder to the splice and cover with heatshrink tubing.



NOTE: Avoid using an excessive amount of solder, as it can result in wicking. Wicking occurs when solder travels up the wire core. This may cause the wire to become stiff or brittle, which could lead to a broken or open circuit.

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