

# **29049, 29051, 29053, 29400-7, 31051 HARNESS KIT 3-PORT ISOLATION MODULE LIGHT SYSTEM**

**w/2-PLUG SYSTEM HARNESSES**

**Parts List and Installation Instructions**

**⚠ CAUTION**

Read this document before installing the snowplow.

**⚠ CAUTION**

See your sales outlet/website for specific vehicle application recommendations before installation. The online selection system has specific vehicle and snowplow requirements.

**PARTS LIST**

Plug-In Harness Kit and Plug-In Harness Extension						
Part	Description	Qty				
		29049	29051	29053	29400-7	31051
28986	Plug-In Harness, H13	1				
28464	Plug-In Harness, 2B or 2D or HB2		1			1
29058	Plug-In Harness, 5-Pin Connector			1		
29499-1	Plug-In Harness, HB3 & H11				1	
26357	Vehicle Lighting Harness – 11-Pin	1		1		1
40284	Isolated Stud Block			1		
21563	Battery Cable – 90"			1		
29861-4	Vehicle Lighting Harness – 11-Pin w/Relay Assy		1		1	
29071	8" Cable Assembly					1
95837	Fuse Holder					1
90729	200A Fuse					1
–	Reclosable Fasteners	4	4	4	4	4
–	Splices	1	1	1	1	1
–	Heatshrink Tubing	1	1	1	1	1

LED Plow Light Kit		
Part	Description	Qty
72565	Headlamp Control Module (HCM)	1
72643	Harness Assembly – HCM to Isolation Module	1
72546	Vehicle Harness Assembly – HCM to Grille	1
72548	Harness Assembly – Plow Lighting	1
72550	Cable Assembly – HCM	1
72552	Wire Assembly – EdgeView™ Lights	1
–	Reclosable Fasteners	4

**SAFETY DEFINITIONS**

**⚠ WARNING**

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

**⚠ CAUTION**

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

**NOTE:** Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

**FUSES**

The snowplow electrical and hydraulic systems contain several automotive-style fuses. If a problem should occur and fuse replacement is necessary, the replacement fuse must be of the same type and amperage rating as the original. Installing a fuse with a higher rating can damage the system and could start a fire. Fuse Replacement, including fuse ratings and locations, is located in the Maintenance section of the Owner's Manual.

**BATTERY SAFETY**

**⚠ CAUTION**









Batteries normally produce explosive gases, which can cause personal injury. Therefore, do not allow flames, sparks, or lit tobacco to come near the battery. When charging or working near a battery, always cover your face and protect your eyes, and also provide ventilation.

- Batteries contain sulfuric acid, which burns skin, eyes, and clothing.
- Disconnect the battery before removing or replacing any electrical components.

**TORQUE CHART**

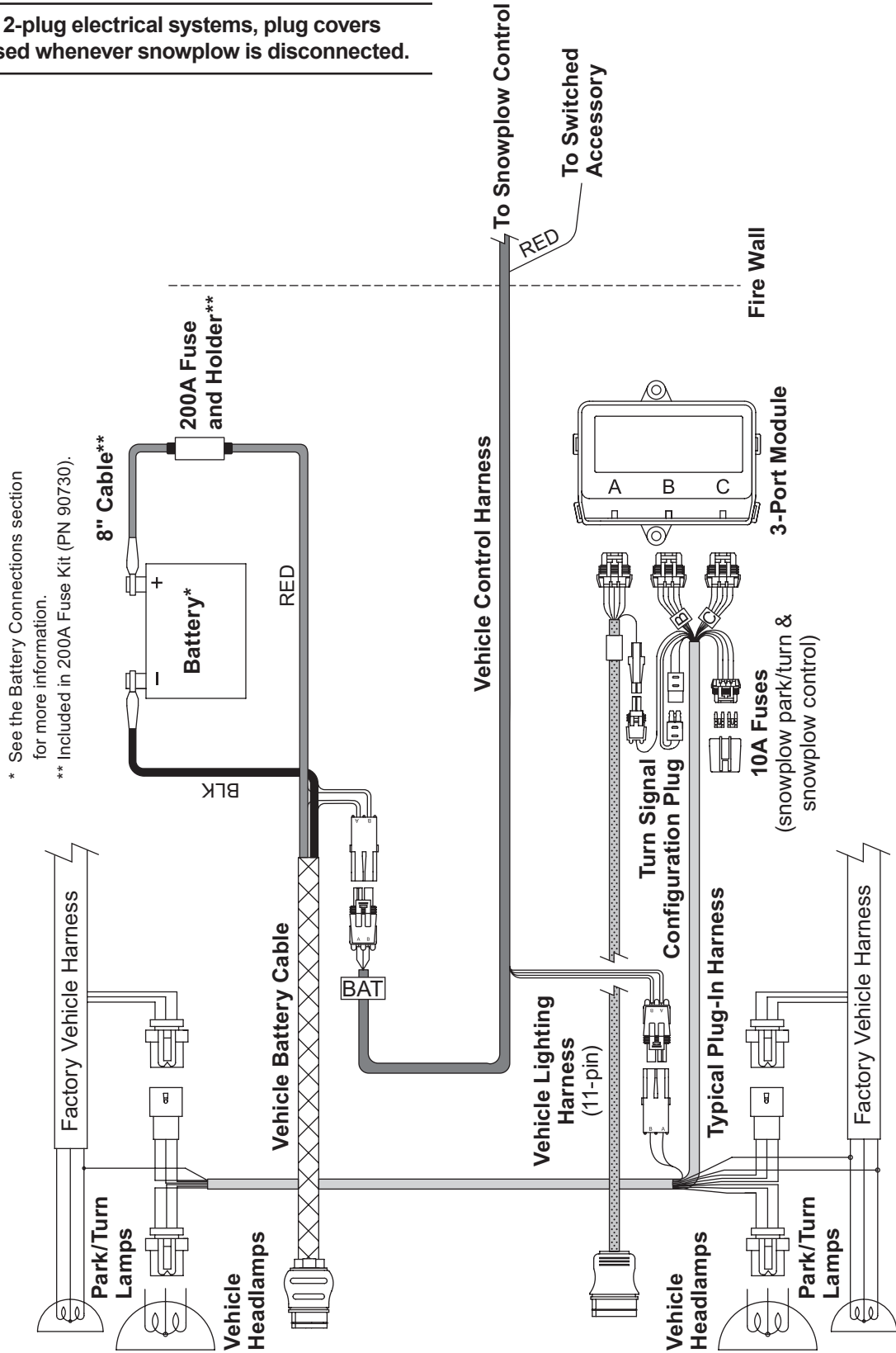
**⚠ CAUTION**

Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow, including proper personal protective safety equipment.

Recommended Fastener Torque Chart					
Inch Fasteners Grade 5 and Grade 8					
Size	Torque (N·m)		Size	Torque (N·m)	
	 Grade 5	 Grade 8		 Grade 5	 Grade 8
1/4-20	11.4	16.2	9/16-12	148	209
1/4-28	13.1	18.5	9/16-18	164	232
5/16-18	23.6	33.3	5/8-11	203	287
5/16-24	26.0	36.9	5/8-18	230	325
3/8-16	41.8	59.1	3/4-10	365	510
3/8-24	47.5	67.0	3/4-16	403	569
7/16-14	67.0	94.6	7/8-9	582	822
7/16-20	74.8	105.6	7/8-14	643	907
1/2-13	102.1	144.3	1-8	873	1232
1/2-20	115.2	162.7	1-12	954	1349
Metric Fasteners Class 8.8 and 10.9					
Size	Torque (N·m)		Size	Torque (N·m)	
	 Class 8.8	 Class 10.9		 Class 8.8	 Class 10.9
M6 x 1.00	10.4	15.0	M20 x 2.50	441	610
M8 x 1.25	26.4	36.5	M22 x 2.50	580	831
M10 x 1.50	52.2	72.2	M24 x 3.00	762	1055
M12 x 1.75	91	126	M27 x 3.00	1079	1544
M14 x 2.00	145	200	M30 x 3.50	1515	2095
M16 x 2.00	226	313	M33 x 3.50	1990	2849
M18 x 2.50	301	431	M36 x 4.00	2647	3662
These torque values apply to fasteners except those noted in the instructions.					

TYPICAL 2-PLUG, 3-PORT MODULE SYSTEM DIAGRAM

NOTE: On 2-plug electrical systems, plug covers shall be used whenever snowplow is disconnected.



\* See the Battery Connections section for more information.  
 \*\* Included in 200A Fuse Kit (PN 90730).

## INSTALLATION INSTRUCTIONS

### Isolation Module Mounting

#### ⚠ CAUTION

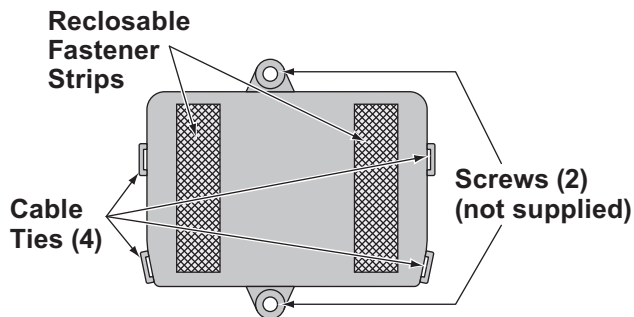
Before installing self-drilling screws or drilling mounting holes, check the selected mounting area for any wires, hoses, or other obstructions.

Isolation modules are sold separately. Check the online selection system for the correct module for your vehicle.

Locate a flat surface within the engine compartment of the vehicle for mounting the isolation module (**on the driver's side, if possible**). The fire wall, fender well, or radiator shroud are possible mounting locations. If a suitable flat surface is not accessible, cable tie the isolation module to existing brackets or harnessing.

Reclosable fastener strips and/or cable ties are supplied for mounting the isolation module, but self-drilling screws can also be used. When using reclosable fastener strips, the mounting surface must be free of dirt and grease.

Isolation Module  
(bottom view)



### Vehicle Battery Cable Installation

#### ⚠ CAUTION

Batteries normally produce explosive gases, which can cause personal injury. Therefore, do not allow flames, sparks, or lit tobacco to come near the battery. When charging or working near a battery, always cover your face and protect your eyes, and also provide ventilation.

- Batteries contain sulfuric acid, which burns skin, eyes, and clothing.
- Disconnect the battery before removing or replacing any electrical components.

**NOTE:** Fuse holder and fuse are to be installed between the POSITIVE (+) vehicle battery terminal and the end of the supplied snowplow vehicle battery cable assembly.

**NOTE:** When instructed, make all snowplow battery cable connections to the auxiliary battery, if vehicle is so equipped.

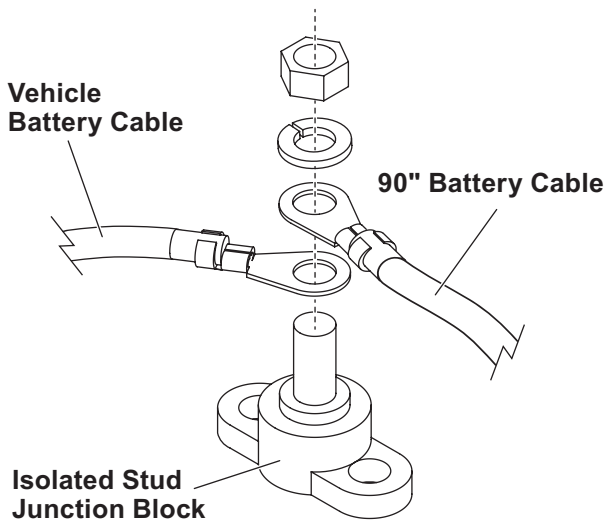
**NOTE:** Use dielectric grease on all electrical connections to prevent corrosion. Fill receptacles and lightly coat ring terminals before assembly.

**NOTE:** For vehicles equipped with a tilt cab or tilt hood, a service loop will be necessary when making harness or cable transitions from the cab/hood to the frame. Check the cable installation for interference by raising and lowering the cab/hood a number of times. Add anti-chafing material (installer-supplied) as needed.

1. Turn OFF the vehicle ignition.
2. Disconnect both the NEGATIVE (–) and the POSITIVE (+) battery cables from the vehicle battery.

3. Route the supplied vehicle battery cable from the grille or bumper to the battery, avoiding any sharp edges and hot or moving parts. Cable tie only the end section closest to the grille. The vehicle battery cable may need to be lengthened on vehicles with batteries located under or behind the cab.

If lengthening cables is necessary, use the supplied isolated stud junction block. Mount the block to a flat surface within reach of the vehicle battery cable, and connect both the vehicle battery cable and the supplied 90" battery cable to the junction block.



4. Remove the fuse holder cover. Loosen and remove the fuse holder nuts and lock washers. Install a 200A fuse into the fuse holder.
5. Attach one end of the supplied 8" cable to the fuse holder so that the ring terminal is on top of the fuse. Replace the lock washer and nut on this terminal and hand tighten the nut.
6. Attach the red lead from the vehicle battery cable (or 90" battery cable) to the second fuse holder terminal, placing the cable ring terminal on top of the fuse lead. Replace the lock washer and nut on this terminal and hand tighten the nut.
7. Tighten the fuse holder nuts to 106–159 in-lb and snap the fuse holder cover into place.
8. Route the 8" cable from the fuse holder to the POSITIVE (+) battery terminal. *Do not connect at this time.*
9. Route the black wire from the vehicle battery cable to the NEGATIVE (–) battery connection point. *Do not connect at this time.* On vehicles with the batteries located under or behind the cab, connect the black wire from the vehicle battery cable to the frame using an existing hole or ground bolt. Prior to attaching, clean away any paint or dirt to ensure a good ground connection. The 4-position connector from the vehicle battery cable will connect to the mating connector (labeled "BAT") on the end of the vehicle control harness.

## Vehicle Lighting and Vehicle Control Harness Installation

For *Halogen plow light* installation, proceed with the following instructions.

For *LED plow light* installation, install the vehicle control harness as instructed, but **DO NOT** install the supplied vehicle lighting harness. Instead, refer to the LED Installation Instructions on page 10.

**NOTE:** For vehicles equipped with a tilt cab or tilt hood, a service loop will be necessary when making harness or cable transitions from the cab/hood to the frame. Check the cable installation for interference by raising and lowering the cab/hood a number of times. Add anti-chafing material (installer-supplied) as needed.

1. Route both harnesses around or through the radiator bulkhead to the isolation module.
2. Connect the vehicle lighting harness to position "A" on the 3-port isolation module.
3. Route the end of the vehicle control harness with the white 4-pin connector to the fire wall.
4. Connect the black 4-position connector (labeled "BAT") from the end of the vehicle control harness to the 4-position connector from the vehicle battery cable. Do not cable tie the harness at this time.

### **⚠ CAUTION**

Before installing self-drilling screws or drilling mounting holes, check the selected mounting area for any wires, hoses, or other obstructions.

5. On the driver's side, locate an existing hole through the fire wall for the vehicle control harness. If access through the fire wall does not exist, drill a 5/8" hole through the fire wall of the vehicle in a convenient location away from sharp edges and hot or moving parts.
6. Push the braided harness breakout with the cab control connector through the fire wall hole into the cab. Use a grommet, existing plug cover, or proper chafing material to protect the harness where it passes through the fire wall. Route the harness to the selected control mounting location.

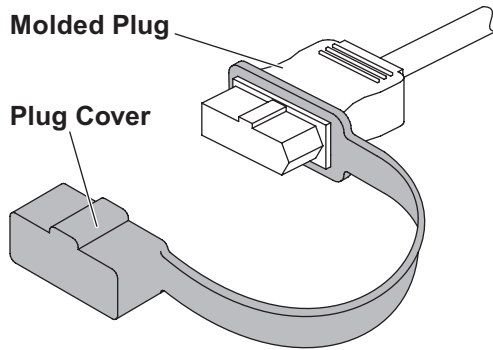
To mount the control, follow the instructions supplied with the control.

7. Locate an accessory wire controlled by the ignition switch. Acceptable accessory wires show +12V when the ignition switch is ON, and 0V when it is OFF.
8. Route the red "ACC" wire from the vehicle control harness to this location and trim away excess length.
9. Following the instructions in the Recommended Splicing Procedure section, splice the red "ACC" wire into the switched accessory wire using the supplied parallel splices and heatshrink tubing.

**NOTE:** Cable tie the control harness and accessory tap away from the brake, clutch, gas, or parking brake pedals, and any hot, sharp, or moving parts.

## PLUG COVER INSTALLATION

Stretch the rectangular opening of the plug cover strap over the end of the vehicle battery cable. Place the plug cover over the molded plug whenever the snowplow is not in use.



## PLUG-IN HARNESS INSTALLATION: VEHICLES USING THE 29053 HARNESS KIT

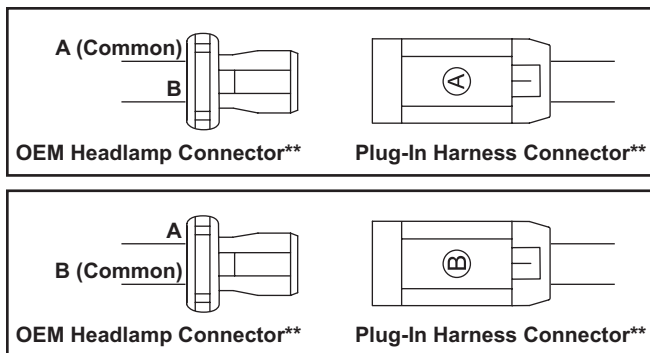
1. Locate the passenger-side OEM vehicle headlamp connector located near the tilt-hood hinge below the headlamp housing.
2. Remove the small, light gray connector lock by carefully sliding it back away from the connector. Save the connector lock. Separate the connectors by pushing down on the locking tab and pulling them apart.
3. Connect the plug-in harness female connector to the male OEM vehicle headlamp connector. Reinstall the small, light gray connector lock.
4. Connect the plug-in harness male connector to the female OEM vehicle headlamp connector.
5. Route the remaining half of the plug-in harness to the driver-side OEM vehicle headlamp connector, and repeat Steps 2–4.
6. Route the plug-in harness to the 3-port isolation module by running the harness along the existing cables underneath the engine and radiator area. Connect the plug-in harness to the module by matching harness connector B with module port B and harness connector C with module port C.
7. Connect the black 4-position connector from the middle of the vehicle control harness to the 4-position connector from the plug-in harness.
8. Cable tie the vehicle control harness, vehicle lighting harness, and plug-in harness away from any sharp, hot, or moving parts.
9. Skip ahead to the Turn Signal Configuration Plug section.

**PLUG-IN HARNESS INSTALLATION:  
ALL OTHER APPLICATIONS**

**NOTE:** For vehicles equipped with a tilt cab or tilt hood, a service loop will be necessary when making harness or cable transitions from the cab/hood to the frame. Check the cable installation for interference by raising and lowering the cab/hood a number of times. Add anti-chafing material (installer-supplied) as needed.

1. **For vehicles using the 29400-7 harness kit:**  
The plug-in harness contains four reversible 2-position connectors. One set of connectors connects to the HB3 bulbs and one set connects with the H11 bulbs.

**NOTE:** To properly install reversible 2-position connectors, it is necessary to know which pin of the OEM headlamp connectors is common.\* When mating the OEM headlamp connectors with the plug-in harness, be sure to orient the connectors as shown below.



\*\* Connector appearance will vary.

**NOTE:** DO NOT PROBE OR DAMAGE THE WIRE INSULATION. When the common wire is located the test lamp will illuminate.

2. **For vehicles using the 29053 harness kit with the 32036 or 31175 adapter kit:** Follow the installation instructions for the adapter kit provided.

3. Remove the headlamp or headlamp housing connectors. Connect the plug-in harness to the mating connectors removed from the headlamps or headlamp housings.\* Connect the plug-in harness to the mating connections at the headlamps or headlamp housings. Route the plug-in harness to the 3-port isolation module. Connect the plug-in harness to the module by matching harness connector B with module port B and harness connector C with module port C.

**For vehicles with dedicated Daytime Running Light (DRL) bulbs:** Connect the DRL wire from the plug-in harness to the vehicle DRL bulb POSITIVE (+) wire.

**For vehicles with headlamp bulb or turn signal DRLs:** The DRL wire from the plug-in harness will not be used. Coil and cable tie the DRL wire.

**For vehicles requiring the 69826, 69826-1, 69826-2, or 69826-3 relay adapter kit,** refer to the Installation Instructions packed with the kit.

4. Connect the black 4-position connector from the middle of the vehicle control harness to the 4-position connector from the plug-in harness.
5. If not already done during adapter installation, locate the turn signal wire on each side of the vehicle. Splice the "TURN" wire from the plug-in harness into the signal wire on the corresponding side following the instructions in the Recommended Splicing Procedure section.
6. If not already done during adapter installation, splice the "PARK" wire from the plug-in harness into the parking light wire following the instructions in the Recommended Splicing Procedure section.
7. Cable tie the vehicle control harness, vehicle lighting harness, and plug-in harness away from any sharp, hot, or moving parts.
8. **For vehicles using the 29400-7 harness kit:** To complete the installation, secure the relay assemblies to an existing assembly using cable ties. Mount the relay connectors wire side down.

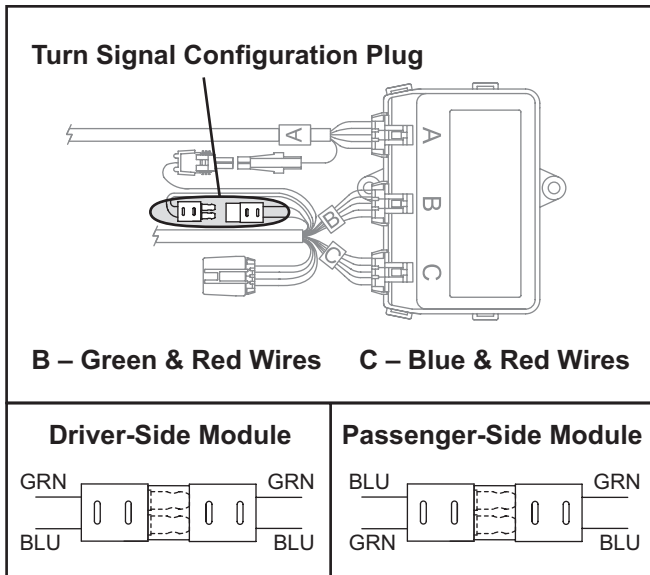
\* See A & B markings on the OEM headlamp connector for pin identification when testing for common.

**TURN SIGNAL CONFIGURATION PLUG**

**⚠ WARNING**

**If the turn signal configuration plug is mated incorrectly, the turn signals will be reversed between the vehicle and the snowplow.**

- Mate the turn signal configuration plug located on the plug-in harness. If the isolation module is installed on the driver's side, mate the plug so that the wire colors match (green to green and blue to blue). If the module is installed on the passenger's side, mate the plug so that the wire colors are opposite (green to blue).



- Connect the single-wire connector from the vehicle lighting harness to the single-wire connector from the plug-in harness.

**LED INSTALLATION INSTRUCTIONS**

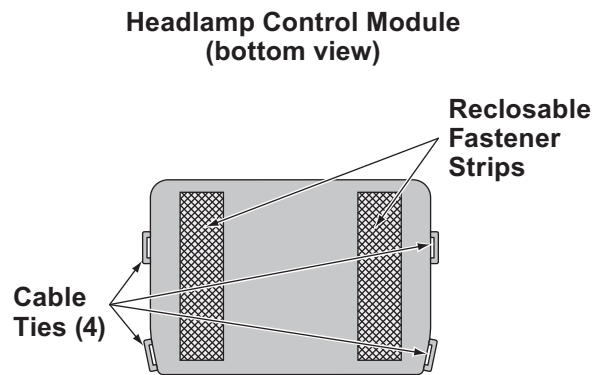
**Headlamp Control Module (HCM) Mounting**

Locate a flat surface within the engine compartment of the vehicle near the isolation module. If a suitable flat surface is not accessible, cable tie the HCM to existing brackets or harnessing.

Mount the HCM so that the harness connections are wire side down.

**NOTE: If possible, mount the HCM in an area that is protected from road splash.**

Reclosable fastener strips and/or cable ties are supplied for mounting the HCM. When using reclosable fastener strips, the mounting surface must be free of dirt and grease.



## HCM Vehicle Battery Cable Installation

### ⚠ CAUTION

Batteries normally produce explosive gases, which can cause personal injury. Therefore, do not allow flames, sparks, or lit tobacco to come near the battery. When charging or working near a battery, always cover your face and protect your eyes, and also provide ventilation.

- Batteries contain sulfuric acid, which burns skin, eyes, and clothing.
- Disconnect the battery before removing or replacing any electrical components.

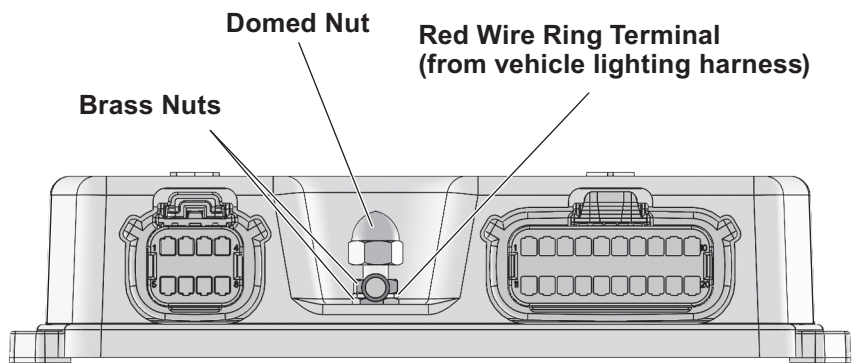
**NOTE:** When instructed, make all snowplow battery cable connections to the auxiliary battery, if vehicle is so equipped.

**NOTE:** Use dielectric grease on all electrical connections to prevent corrosion. Fill receptacles and lightly coat ring terminals before assembly.

1. Turn OFF the vehicle ignition.
2. Disconnect both the NEGATIVE (-) and the POSITIVE (+) battery cables from the vehicle battery.
3. Route the supplied HCM vehicle battery cable from the battery to the 2-position mating connector on the HCM vehicle lighting harness, avoiding any sharp edges and hot or moving parts.

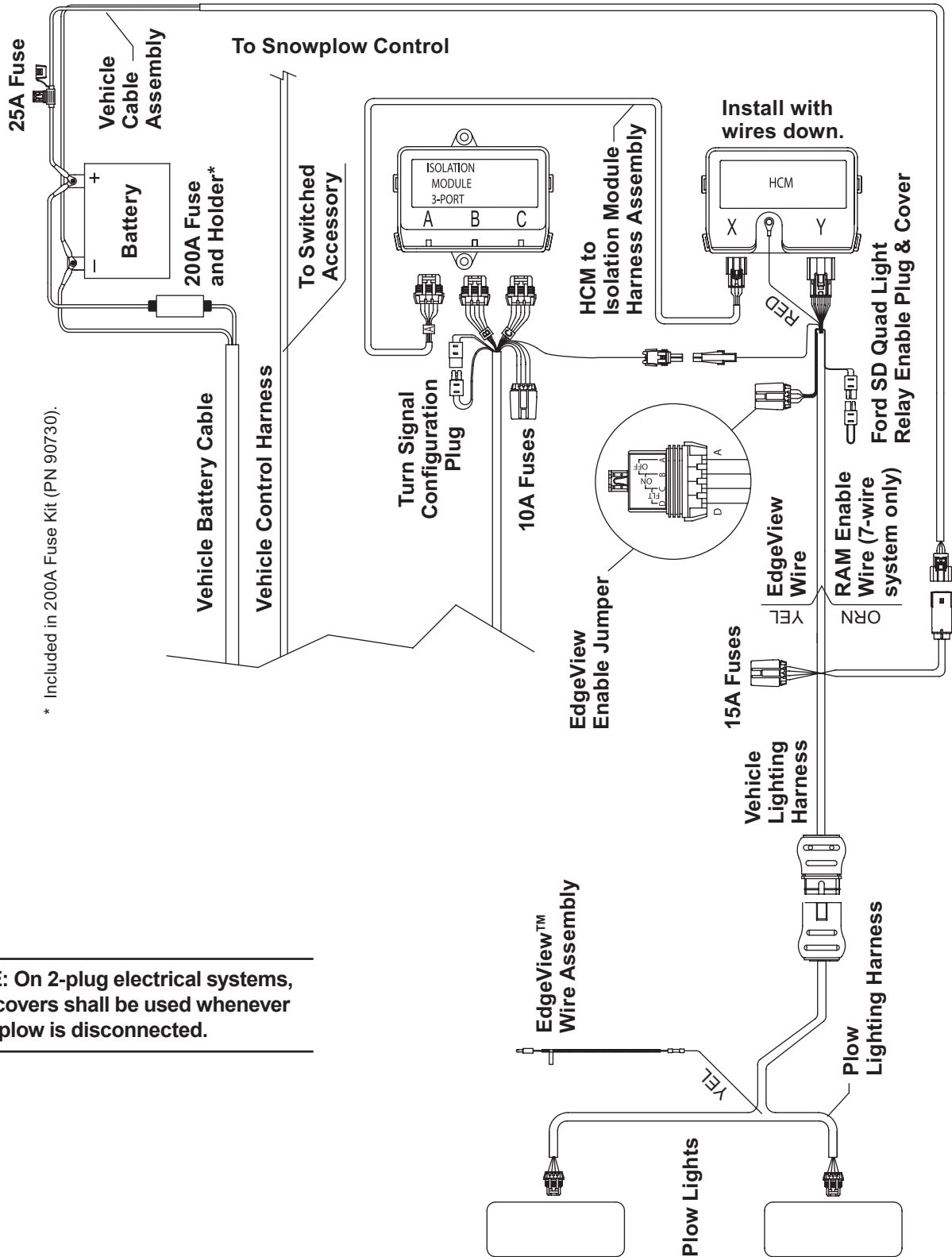
## HCM Vehicle Lighting Harness Installation

1. Route harnesses around or through the radiator bulkhead to the HCM.
2. Make the following connections:
  - 2-position connector from the vehicle lighting harness to the matching 2-position connector from the vehicle cable assembly
  - Vehicle lighting harness to position "Y" on the HCM
  - Single-pin connector from the plug-in harness assembly to the single-pin connector on the vehicle lighting harness.
3. Route the red wire from the vehicle lighting harness to the stud on the HCM.
4. Remove the protective plastic domed nut and the top brass nut from the HCM stud. Install the red wire ring terminal on stud and remaining brass nut. Reinstall the top brass nut and tighten to 25.9 in-lb. Reinstall the protective plastic domed nut. (See illustration below.)



Headlamp Control Module (HCM)

**TYPICAL LED PLOW LIGHT, HEADLAMP CONTROL MODULE (HCM), AND HARNESS DIAGRAM**

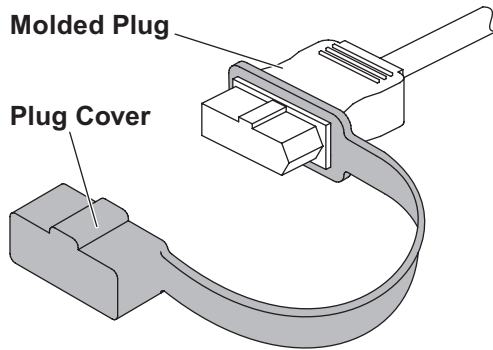


\* Included in 200A Fuse Kit (PN 90730).

**NOTE: On 2-plug electrical systems, plug covers shall be used whenever snowplow is disconnected.**

## PLUG COVER INSTALLATION

Stretch the rectangular opening of the plug cover strap over the end of the HCM vehicle lighting harness. Place the plug cover over the molded plug whenever the snowplow is not in use.



## HCM TO ISOLATION MODULE HARNESS INSTALLATION

1. Make the following connections:
  - 10-pin connector to port A of the isolation module
  - 8-position connector to port X of the HCM.
2. Cable tie harnesses as needed, away from any sharp, hot, or moving parts.

## BATTERY CONNECTIONS

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**NOTE: Use cable ties to secure cable assemblies and control and lighting harnesses away from any sharp edges and hot or moving parts.**

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**NOTE: Follow OEM battery cable connection recommendations when attaching to the battery.**

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1. Make the following attachments to the POSITIVE (+) battery terminal:
  - POSITIVE (+) OEM cable assembly
  - Red 8" cable from fuse holder
  - Red cable from headlamp control module power cable.
2. Make the following attachments to the NEGATIVE (-) battery terminal:
  - NEGATIVE (-) OEM cable assembly
  - Black vehicle battery cable
  - Black cable from headlamp control module power cable.

## BATTERY CABLE CONNECTIONS

### Top Post Batteries w/Lead Cable Ends

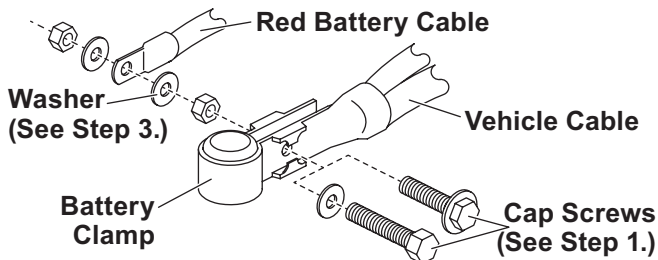
1. Attach the POSITIVE (+) OEM cable to the battery post. Attach the red battery cable to the bolt in the OEM terminal with original fastener.
2. Attach the NEGATIVE (-) OEM cable to the battery post. Attach the black wire from the vehicle battery cable to the OEM terminal bolt with original fastener.

### Top Post Batteries w/Stamped Steel Battery Terminals

#### Top Post Batteries, Style One

These terminals are secured with a 6 mm washer-head cap screw and nut. If the cap screw is already long enough for the added thickness of the cable terminal, washer, and nut, it will not need to be replaced, and Step 1 may be skipped.

1. Carefully lift retainer tabs (if present) and remove the short cap screw. Insert the supplied longer cap screw through a 3/16" washer and into the hole in the clamp. Carefully bend the retainer tabs back into place.

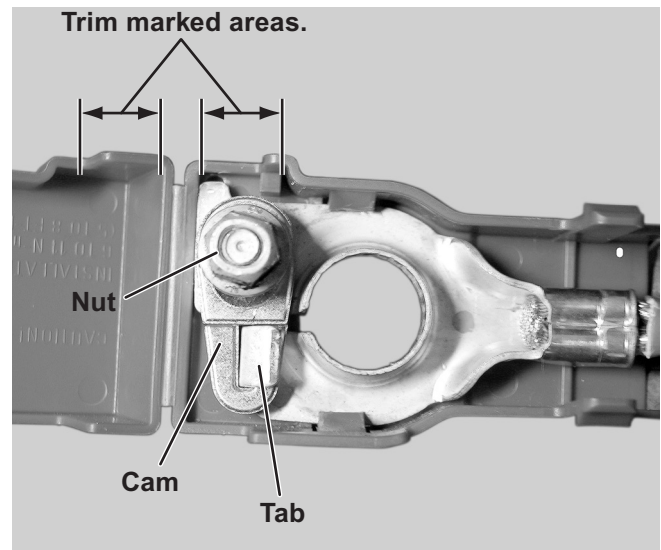


2. Attach the POSITIVE (+) OEM battery clamp to the battery post, and secure the clamp.
3. Place the red battery cable over the end of the battery terminal screw. If the added terminal has large contact area with the battery clamp, retain with washer and nut. If the terminal contact area is small (terminal hole almost passes over a 6 mm nut), add a washer on both sides of the cable and secure with a nut.
4. Connect the black wire from the vehicle battery cable and the OEM NEGATIVE (-) cable to the NEGATIVE (-) battery terminal following the same procedure used in Steps 1–3.

#### Top Post Batteries, Style Two

These terminals are secured with a 6 mm tapered nut and cam.

1. Make the connections to the POSITIVE (+) terminal as follows:
  - a. Remove the cable assembly from the battery post by loosening the nut. Trim the plastic terminal cover as shown.



- b. Carefully bend the tab securing the cam upward so that the cam can be lifted off the stamped terminal after the nut has been removed.
- c. Place the red battery cable over the battery terminal screw.
- d. Slide the cam over the terminal screw and tab. Reinstall the nut.
- e. Place the cable assembly on the battery post, align the red battery cable with the opening in the cover, and tighten the nut. Close the plastic terminal cover.

2. Make the connections to the NEGATIVE (–) terminal as follows:
  - a. Remove the cable assembly from the battery post by loosening the nut.
  - b. Carefully bend the tab securing the cam upward so that the cam can be lifted off the stamped terminal after the nut has been removed.
  - c. Place the black wire from the vehicle battery cable over the battery terminal screw.
  - d. Slide the cam over the terminal screw and tab. Reinstall the nut.
  - e. Place the cable assembly on the battery post, and tighten the nut.

#### Top Post Batteries, Style Three

These terminals are similar to Style Two, but do not have a visible cam or tab.

1. Make the connections to the POSITIVE (+) terminal as follows:
  - a. Remove the cable assembly from the battery post by removing the nut. Trim the plastic terminal cover as necessary to accommodate the red snowplow battery cable.
  - b. Place the red battery cable over the battery terminal screw and reinstall the nut.
  - c. Place the cable assembly on the battery post, align the red battery cable with the opening in the cover, and tighten the nut. Close the plastic terminal cover.

2. Make the connections to the NEGATIVE (–) terminal as follows:
  - a. Remove the cable assembly from the battery post by removing the nut.
  - b. Place the black wire from the vehicle battery cable over the battery terminal screw and reinstall the nut.
  - c. Place the cable assembly on the battery post, and tighten the nut.

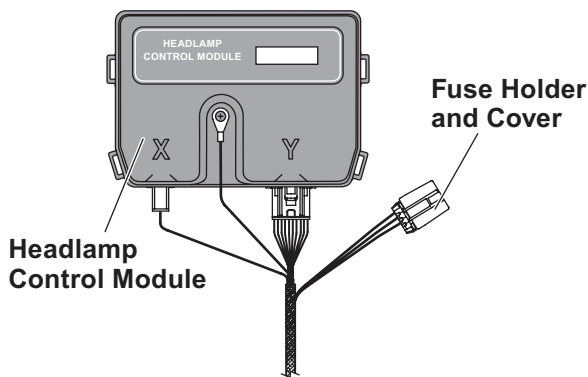
#### Side Terminal Batteries

1. Use the furnished battery cable adapter to attach the red battery cable to the POSITIVE (+) terminal of the battery. Position the cable, and tighten the adapter to 124–178 in-lb.
2. Connect the OEM POSITIVE (+) cable to the adapter on the battery. Position the cable and, while holding the adapter, tighten the battery cable bolt to 124–178 in-lb.
3. Connect the black wire from the vehicle battery cable and the OEM NEGATIVE (–) cable to the NEGATIVE (–) battery terminal following the same procedure used in Steps 1 and 2.

## CHANGING BLADE-EDGE ILLUMINATION MODE

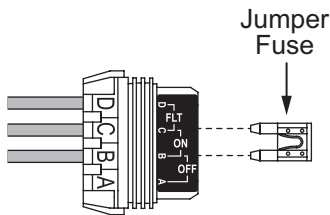
On snowplows equipped with LED headlamps, the EdgeView™ technology feature offers three modes for blade-edge illumination. The factory default setting is ON.

To change the blade-edge illumination mode, remove the cover from the fuse holder located near the "Y" port of the headlamp control module installed in the vehicle engine compartment.

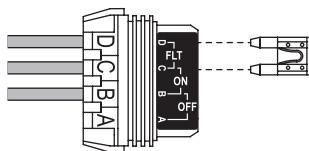


Remove the jumper fuse from the fuse holder and re-insert it in the desired mode position as shown below. Replace the fuse holder cover.

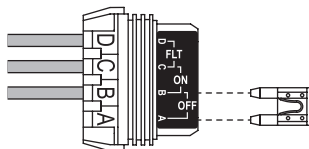
**Default – ON:**  
Blade edge lights illuminate when plow has power.



**FLT:** Blade edge lights illuminate when blade is in FLOAT mode.



**OFF:** Blade edge lights disabled.



## PLOW-SIDE EdgeView LIGHTING CONNECTIONS

The EdgeView Float (FLT) mode activation function will require a second plow-side electrical connection.

1. On the plow-side LED lighting harness, locate the yellow wire cable tied to the body of the harness near the "Y" section.
2. Strip the end of the yellow wire and insert stripped wire end into the pre-installed insulated butt connector on the supplied EdgeView wire assembly.
3. Crimp the connection and heat seal the insulated splice.
4. Remove the snowplow hydraulic unit cover. Route the EdgeView wire assembly along the snowplow structure to the snowplow hydraulic unit, and cable tie wires as needed.
5. Locate the solenoid on the snowplow hydraulic unit that is activated during the snowplow Lower/Float function. Refer to the Mechanic's Guide or snowplow manufacturer's website for further information.
6. Plug the bullet terminal on the end of the supplied EdgeView wire assembly into the receptacle on the corresponding solenoid wire. If a receptacle is not found on the correct solenoid wire, remove the bullet terminal from the EdgeView wire assembly and splice the end of the EdgeView wire into the correct solenoid wire.
7. Cable tie extra wire length to the snowplow assembly and reinstall the hydraulic unit covers.

**NOTE: EdgeView light will turn ON or OFF approximately 5 seconds after EdgeView Mode is activated or canceled.**

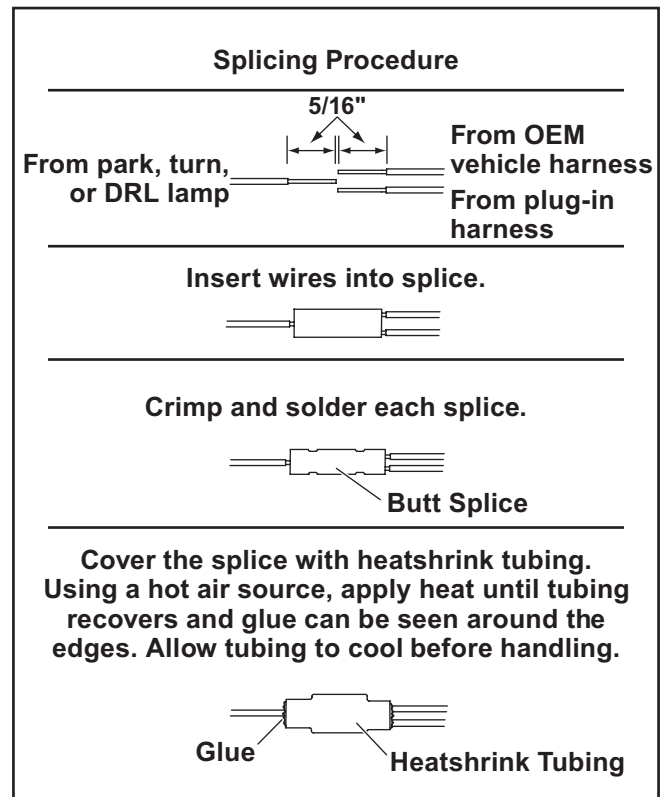
## RECOMMENDED SPLICING PROCEDURE

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" long) over the remaining wire to be spliced. Cut 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.**

**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.**

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.**



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