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Sam s Backup Lights CAN-AM Defender Reverse Light Kit

Sam s Backup Lights CAN-AM Defender Reverse Light Kit Installation Guide

Contents

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Product Information

Specifications

- **Wiring Harness Quantity:** 1
- **Jumper Wire Quantity:** 1
- **Relay Quantity:** 1
- **Mounting Brackets Quantity:** 2
- **Lights with Brackets Quantity:** 2
- **Zip Ties Quantity:** 8
- **Controller Quantity:** 2

Product Usage Instructions

1. Remove the diagnostic connector and plug the connector into the controller.
2. Secure the controller with provided mounting screws; if necessary, drill a 1/16 pilot hole.
3. Connect the bullet connector to the factory solid white wire under the hood.
4. Under the center of the dash, locate the visible factory wires.
5. Plug the 4-inch blue wire into the solid white wire, and then into the solid blue wire.
6. Remove the Floorboard by removing the three push rivets and pulling up.
7. Connect the Light Blue wire coming out of the relay to the Solid Blue wire under the previously removed floorboard.
8. Plug the jumper wire provided in the kit into the Light Blue wire from the controller.
9. Route the jumper wire through the firewall. Remove the winch-control outlet to gain access.
10. Connect the jumper wire to the Light Blue wire coming out of the relay.
11. Remove one T-40 bolt on the upper door hinge. Install the supplied bracket, then remove the second bolt, slide

the bracket in place, and reinstall the bolt. Repeat on the other side.

12. Carefully drill a 5/16 hole. If installing on an enclosed cab, use included rubber grommets in the new hole.
13. Feed the wires into the cab.

This step applies to enclosed cab kits only.

1. Assemble the connector by pushing the red wire into hole marked 1 and the black into hole 2. Push the wires in until they click into place and lock into the connector.
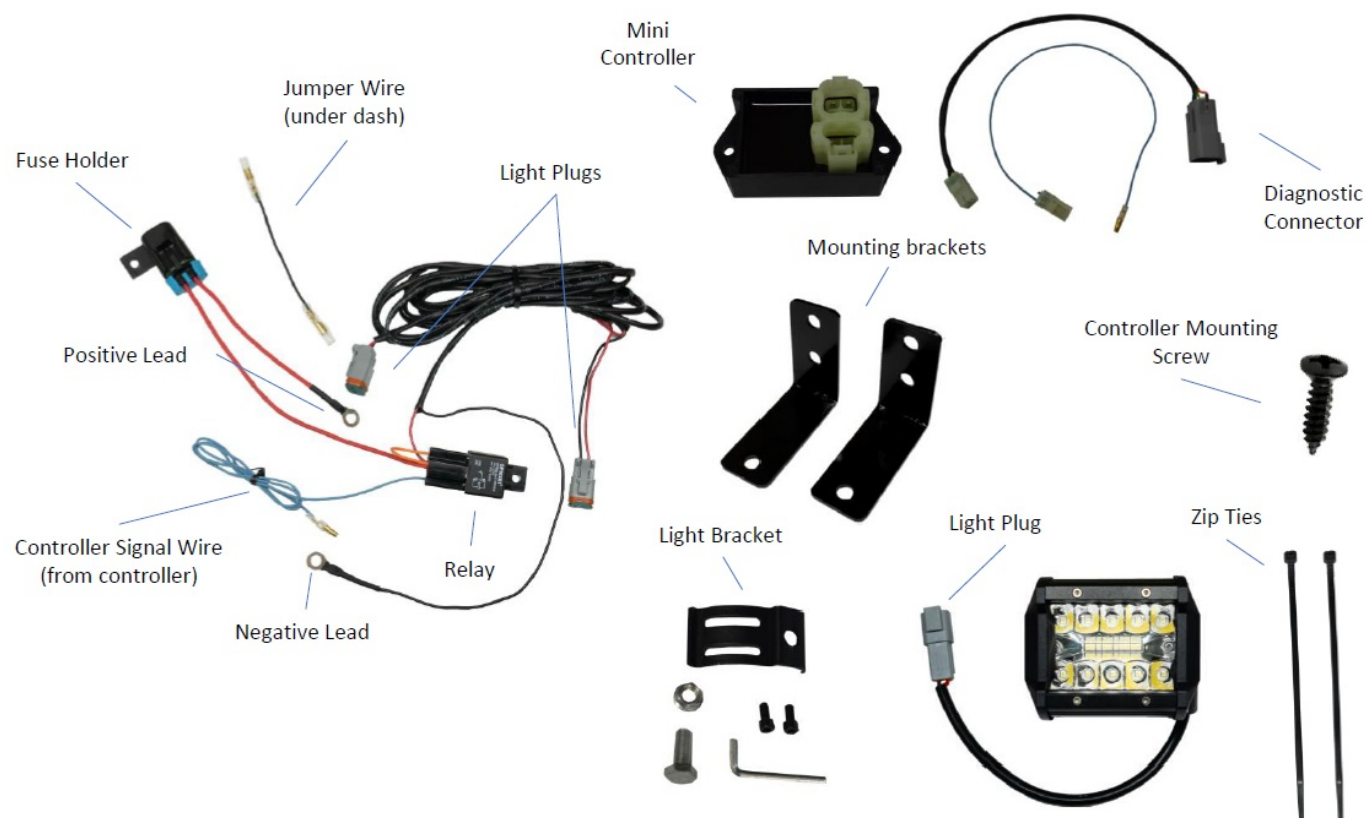
FAQ

- **Q:** What tools are required for installation?
- **A:** The required tools include a 13mm Socket & Ratchet, 13mm Wrench, Philips Screwdriver, Flat Head Screwdriver, Torx T-40, 1/16 and 5/16 Drill Bit, and Wire Cutter for trimming zip ties.
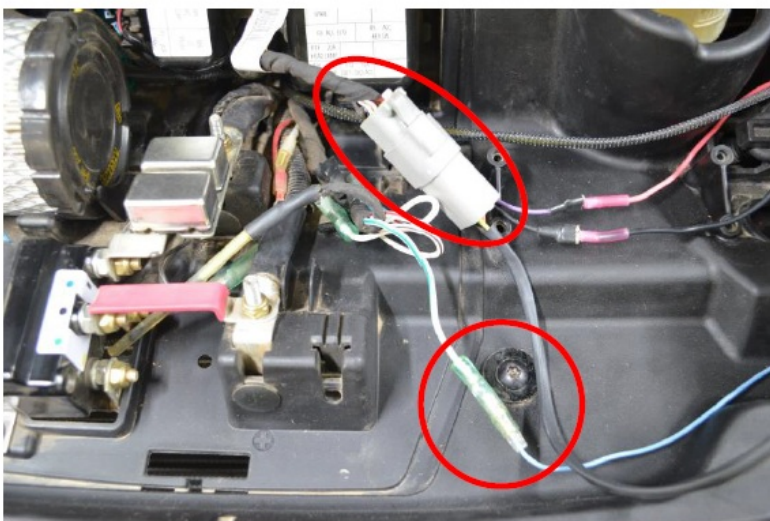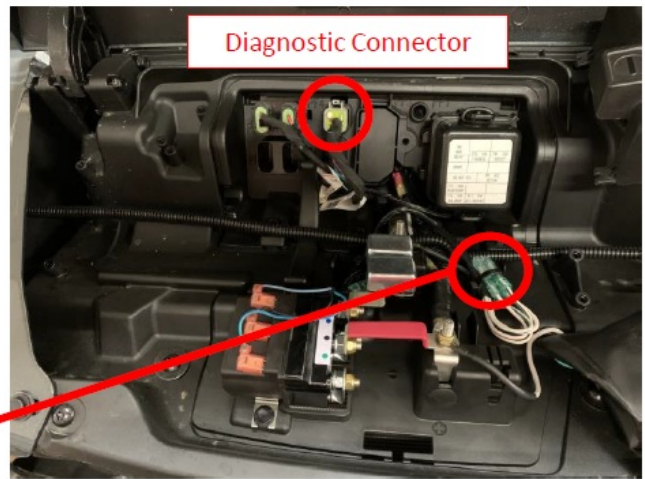- **Q:** What is the disclaimer regarding installation?
- **A:** Sam's Backup Lights is not responsible for any damage due to improper installation.
- **Q:** Where can I find instructional videos for installation?
- **A:** You can scan the QR code provided in the manual or visit Sam's Backup Lights website at **www.samsbackuplights.com** for more information.

Installation Manual

Included

Description	Quantity
Wiring Harness	1
Jumper Wire	1
Relay	1
Mounting Brackets	2
Lights with Brackets	2
Zip Ties	8
Controller	1
Controller Mounting Screws	2

Fuse Holder

Jumper Wire
(under dash)

Mini
Controller

Light Plugs

Diagnostic
Connector

Mounting brackets

Positive Lead

Controller Mounting
Screw

Controller Signal Wire
(from controller)

Relay

Negative Lead

Light Bracket

Light Plug

Zip Ties

Required Tools

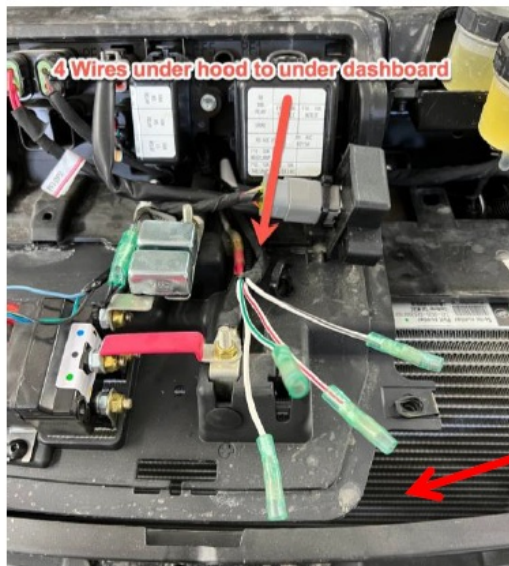| |
| --- |
| 13mm Socket & Ratchet |
| 13mm Wrench |
| Philips Screwdriver |
| Flat Head Screwdriver |
| Torx T-40 |
| 1/16" and 5/16" Drill Bit |
| Wire Cutter (trimming zip ties) |

Read the entire manual before beginning the installation process.

Disclaimer: Sam's Backup Lights is not responsible for any damage due to improper installation.

Secure and Plug-in Controller

1. Remove the diagnostic connector and plug the connector into the controller.
2. Secure the controller with provided mounting screws; if necessary, drill a 1/16" pilot hole.
3. Connect the bullet connector to the factory solid white wire under the hood.

Note: If preexisting wires are not available or already in use refer to step 2b
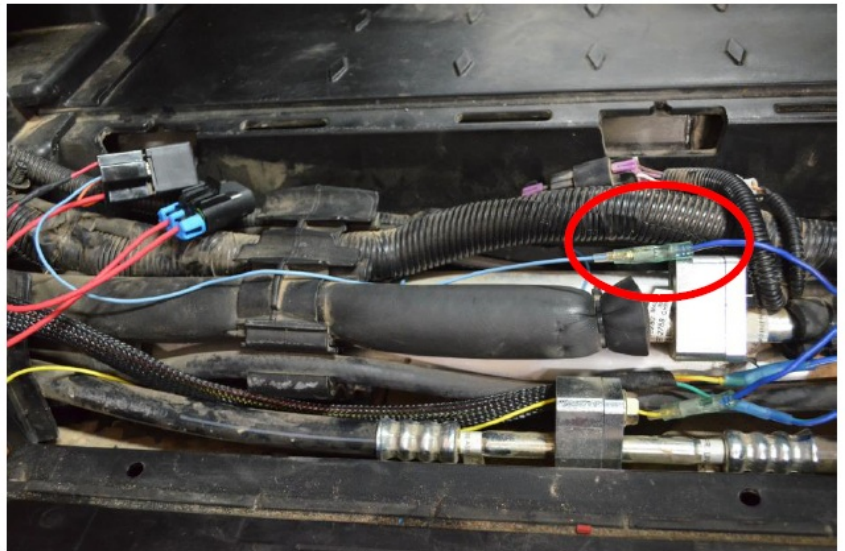
Diagnostic Connector

For an instructional video

Scan QR code:

Routing Wires Under Dash & Floor

1. Under the center of the dash, 4 factory wires will be visible.
2. Plug the 4-inch blue wire into the solid white wire, and then into the solid blue wire.
3. Remove the Floorboard by removing the three push rivets and pulling up.
4. Connect the Light Blue wire coming out of the relay to the Solid Blue wire under the previously removed floorboard.

Wires under dashboard – lead to under hood and to center floor tunnel

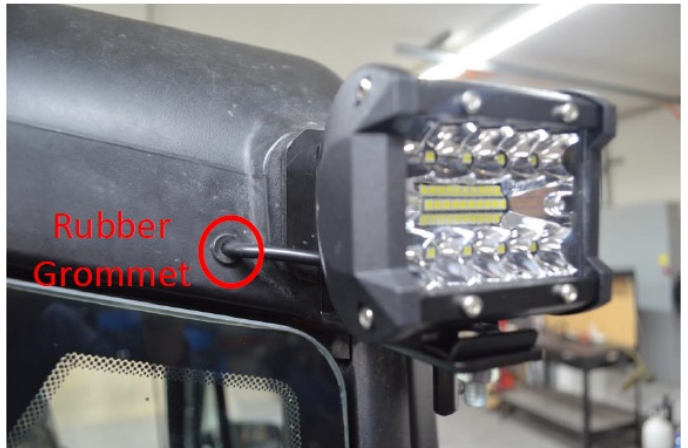

Routing Wires Under Dash & Floor

1. Plug the jumper wire provided in the kit into the Light Blue wire from the controller.
2. Route the jumper wire through the firewall. Remove the winch-control outlet to gain access – there is a rubber seal that runs across the frame, sealing the cab.
3. Connect the jumper wire to the Light Blue wire coming out of the relay.

Mounting the LED Lights

1. Remove one T-40 bolt on an upper door hinge. Install the supplied bracket and reinstall the bolt; then, remove a second bolt, slide the bracket in place, and reinstall the bolt. Repeat on the other side.
2. Carefully drill a 5/16" hole

   NOTE: If installing on an enclosed cab, use included rubber grommets in the new hole.

3. Feed the wires into the cab.

Assemble Connector
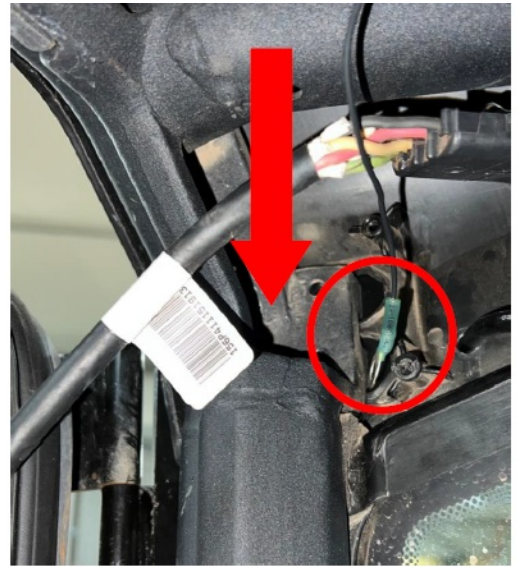
This step applies to enclosed cab kits only.

1. Assemble the connector by pushing the red wire into the hole marked 1 and the black into hole 2. Push the wires in until they click into place and lock into the connector.
2. Push the green wedge lock in until it clicks.
3. Plug the connector into the light and secure the wire using zip ties.

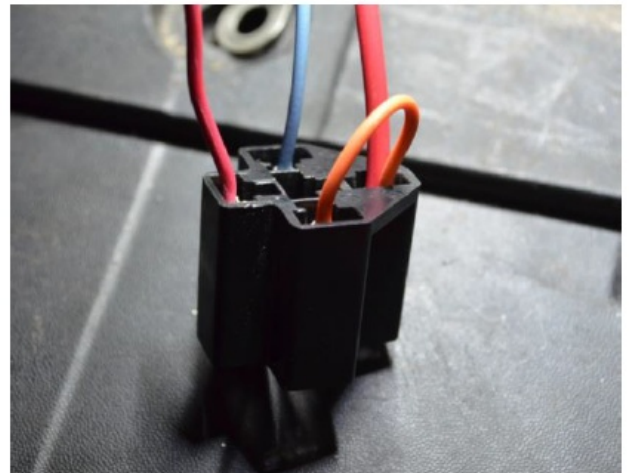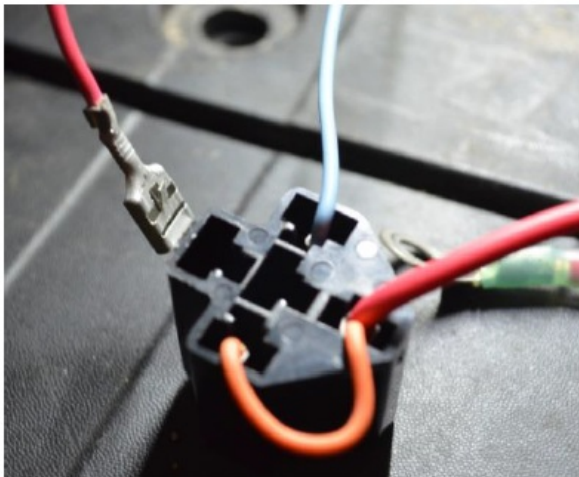**Note:** Holes are numbered on the side, near the point where the connector becomes wider.

Route LED Light Harness

1. Remove the plastic cover near the lower door hinge.
2. Run wires (ring terminal and relay terminal ends) from inside the cab down the inside of the rear passenger pillar; retrieve wires from the hole right below the lower door hinge.
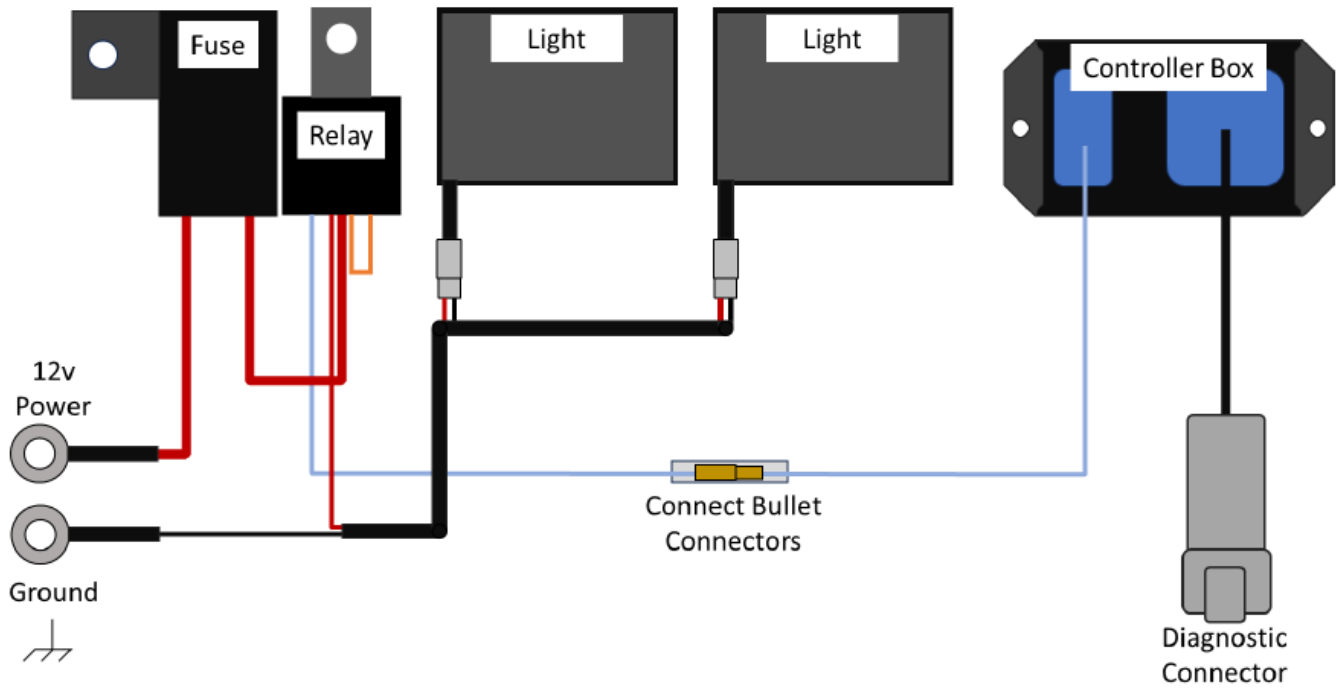3. Route wire up to the battery.

Attach Power Leads and Relay

1. Attach the black ring terminal to the negative battery terminal.
2. Plug the remaining red relay terminal into the relay housing; insert the relay into the housing. Push in until it clicks.
3. Attach the red ring terminal to the positive battery terminal.
4. Secure the fuse and relay using zip ties.
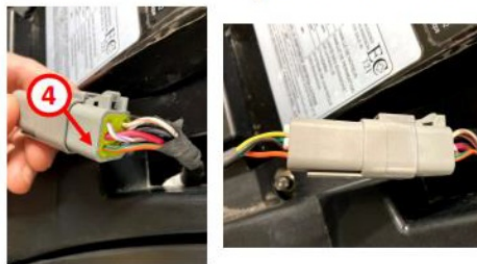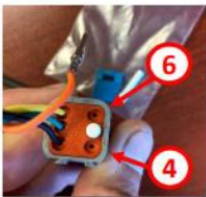
Automatic Reverse Light Wiring

Factory Can-Am Diagnostic Connector
The Orange wire from Sam's Controller needs to match the Orange/Green wire on the factory Can-Am diagnostic connector

Can-Am 2021+ Diagnostic Connector

Can-Am Pre-2021 Diagnostic Connector

Install wedge lock (Green) with small screwdriver or pliers and sealing plug (White) into empty hole

Operation of Reverse Lights
Sam's Backup Lights are automatic. NO switches or programming are required. When the vehicle is shifted into reverse, the lights will automatically come on. The controller has been programmed with a manual override feature, so back-up lights can be turned on without the vehicle needing to be shifted into reverse.

Fully Automatic When Shifted to Reverse

1. No programming needed

Manual Override Function

1. Shift the vehicle into Neutral

2. Press and hold the brake pedal for up to 2 seconds. The reverse light will automatically turn on and stay on.

To turn the light off repeat this procedure.
Operation of Auxiliary Output Option
Manual Override Function

1. Auxiliary output is turned ON by pressing the TRIP button two times within 1 second while in Park, Neutral, High, or Low gear

*To turn the accessory off repeat this procedure.

Note: If the ignition is turned off while the vehicle is in reverse, or the manual override function is enabled, the lights will remain ON until the ECU enters sleep mode (approximately 30 seconds to 2 minutes depending on vehicle and ECU type).

CONTACT

- Sam's Backup Lights
- **www.samsbackuplights.com**
- CAN-AM Defender Reverse Light
- **support@samsbackuplights.com**

Documents / Resources

Sam s Backup Lights CAN-AM Defender Reverse Light Kit [pdf] Installation Guide
RLK, Automatic Reverse Light Kit, Reverse Light Kit, CAN-AM Defender Reverse Light Kit, CAN-AM, CAN-AM Reverse Light Kit, Defender Reverse Light Kit, Reverse Light Kit, Reverse Light, Light Kit, Light

References

- 🌐 **Sam's Backup Lights**
- **User Manual**