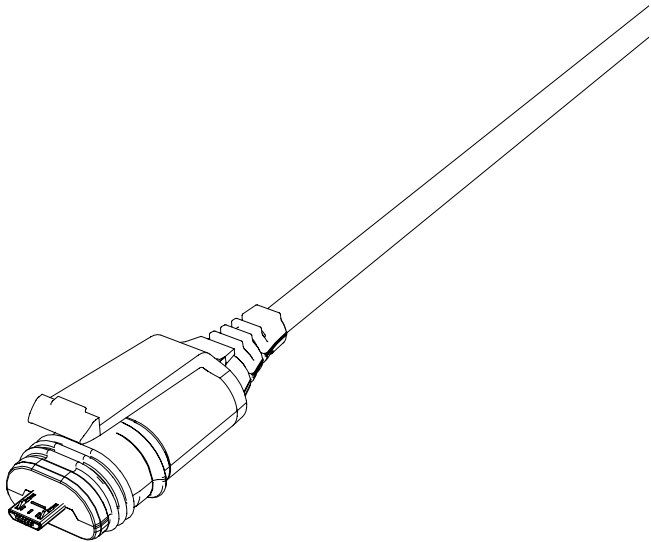


INSTALLATION GUIDE: HARDWIRE KIT FOR G7 BRIDGE



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Contents

- Hardwire Kit
- Zip ties

Installation

Blackline Safety recommends that an automotive service center install G7 Bridge for you. Installation time varies depending on the installation, your vehicle model, and requires approximately 15 to 90 minutes. Please read the following installation instructions before you begin.

IMPORTANT: Failure to properly wire the Bridge may result in loss of power to the Bridge.

Tools

To install G7 Bridge with the Hardwire Kit you may need the following:

- Automotive test light
- Pliers
- Wire strippers
- Drill
- Soldering iron and solder
- Heat shrink
- Heat gun

Installation with the fuse expander accessory

For installations where splicing into vehicle wiring is not permitted, Blackline offers Quick Mini® and Quick ATO® fuse expander accessories. These wiring harnesses enable an installer to remove a fuse from a vehicle's fuse panel and install the fuse expander. A pair of fuse sockets provides one fuse socket for the original circuit within the vehicle and a secondary fuse socket for the additional circuit for G7 Bridge. This approach requires no stripping of a vehicle's wiring harness or soldering. Contact Blackline Safety for more information.

Choose where to install your G7 Bridge



Prior to installation, consider the following mounting options for G7 Bridge:

- A location near 12 or 24 VDC power
- G7 Bridge requires a clear view of the sky for satellite communications and optimum GPS reception.
- Mount G7 Bridge on a level surface so that the display is readable and the button are accessible.
- Never install G7 Bridge in a location that could interfere with an airbag, seat belt, or where it may interfere with vehicle operation or safety systems, or obstruct the driver's view of the road.
- When installing within the interior of a vehicle, mount such that the display conveniently faces the vehicle passengers.

NOTE: Some vehicle power circuits are controlled by the ignition key. Blackline recommends wiring to such a circuit to prevent vehicle battery drainage when the vehicle is not in use.

WARNING: Always wire the G7 Bridge System to a vehicle circuit that incorporates a fuse.

G7 Bridge can be mounted to a vehicle with the following:

- Truck and Pole mount (optional) that provides the option to mount to the anchor point of a truck box or on varying sizes of poles.
- Multi-purpose mount (included with G7 Bridge) that provides adhesive, tie-strap, and screw fastening options.
- Magnetic mount (included with G7 Bridge) that provides the option to mount to the exterior of a vehicle temporarily.

Hard-wiring your G7 Bridge

G7 Bridge is hardwired to a vehicle's 12 or 24 VDC power system with the three-wire hard wire installation kit. Blackline recommends that you consider wiring G7 Bridge to the a circuit that is switched off when the ignition key is removed. This approach, compared to wiring to a circuit with continuous power, will remove the potential for G7 Bridge to draw down the vehicle's battery over time for long-term storage applications (more than one week). It is still reasonable to wire to a circuit with continuous power however this approach relies upon the G7 Bridge user to turn the device off when not in use in order to avoid draining the vehicle battery. For non-switched installations, the G7 Bridge device can be simply unplugged to ensure the vehicle battery is not drained.

NOTE: If additional wire is required to install G7 Bridge, ensure that a minimum 18 gauge automotive grade wire is used.

Splicing the Hardwire Kit

- Using an automotive test light, identify a switched 12/24 VDC wire that is controlled by the ignition key.
- G7 Bridge consumes up to 1.0 A of peak current. Ensure the chosen vehicle circuit can handle the additional load.
- Disconnect the negative connection to the vehicle's battery.
- Route the positive wire (red) and the brown/green wire of the Hardwire Kit to the switched 12/24 VDC wire.
- Connect both the red and the brown/green wire to the switched 12/24 VDC wire using either a crimp or solder connection. Do not use wiring taps such as 3M Scotchlok™.
- When soldering, ensure that the connection is appropriately insulated using heat-shrink.
- Route the negative wire (black/white) to a vehicle ground wire or chassis ground.
- Connect black/white wire to vehicle ground or chassis ground using either a crimp or solder connection.
- Insulate a soldered connection appropriately.

Protective Wires

Use split loom where wiring will be run under the truck or exposed to rocks, mud, salt, and snow. Use grommets to protect the wire from sharp edges drilled into the body of the vehicle.

Wiring Diagram

The following shows the wiring your G7 Bridge.

Wiring		
Wire colours		Vehicle wiring
Red [+]		12/24 V DC
Brown/green [Key On]		
Black/white [-]		Ground

Wiring using the fuse expander accessory

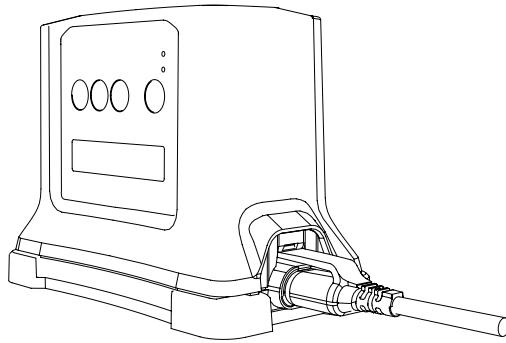
Use the optional Quick MINI and Quick ATO fuse expanders to connect G7 Bridge to 12/24

Wiring using the fuse expander accessory

Use the optional Quick MINI and Quick ATO fuse expanders to connect G7 Bridge to 12/24 VDC power without splicing into the vehicle's electrical system. Installation instructions accompany the fuse expander accessory, when purchased. Two sizes of fuse expander are available: Mini and ATO. Contact Blackline for more information.

Connecting your G7 Bridge

Once the wiring is completed, G7 Bridge will need to be connected to the Hardwire Kit. Remove the Sealing Plug from the device. This Plug is not required for a hardwire installation. Please retain for portable operation, if needed. Align the Micro USB end of the Hardwire Kit with the device and fully push the Hardwire Kit plug into the device ensuring the USB connector and cable catch correctly align and the cable catch fully engages with the device.



VDC power without splicing into the vehicle's electrical system. Installation instructions accompany the fuse expander accessory, when purchased. Two sizes of fuse expander are available: Mini and ATO. Contact Blackline for more information.

Connecting your G7 Bridge

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Verifying an ignition key switched installation

At any time, to verify a Hardwire Kit installation that has been connected to a circuit controlled by the ignition key:

1. Ensure that the ignition key is in the OFF position. G7 Bridge may be OFF or ON.
2. Observe the red Charge Indicator Light on the front of G7 Bridge. It should be OFF continuously. If the Charge Indicator Light is blinking or on steadily, the Hardwire Kit is connected to a non-switched vehicle circuit—check your wiring.
3. Turn the ignition key to the ON position. The Charge Indicator Light should begin to blink or be a steady red. If the light does not turn on, check your wiring.

NOTE: Some vehicle power circuits are controlled by the ignition key. Blackline recommends wiring to such a circuit to prevent vehicle battery drainage when the vehicle is not in use.

Verifying an installation directly to vehicle power (non-switched)

At any time, to verify a Hardwire Kit installation that has been connected to a circuit not controlled by the ignition key:

1. Ensure that the ignition key is in the OFF position. G7 Bridge may be OFF or ON.
2. Observe the Charge Indicator Light on the front of G7 Bridge. It should be blinking or a steady red light. If the light does not turn on, check your wiring.

NOTE: Some vehicle power circuits are controlled by the ignition key. Blackline recommends wiring to such a circuit to prevent vehicle battery drainage when the vehicle is not in use.

G7 Bridge display, battery level, charging status, and sleep mode

G7 Bridge features a Liquid Crystal Display that provides an indication of the battery level in percentage full and a charging status. When turned on, G7 Bridge features a Display Sleep Mode that turns off the Liquid Crystal Display and the Green Status Light two minutes after the last button press. This feature ensures that G7 Bridge maximizes battery life and reduces power consumption. To wake up the display at any time to review the battery capacity and charge status, press the OK Button.

Mounting G7 Bridge

G7 Bridge supports multiple mounting options. Refer to the G7 Bridge User Guides for further information.

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