



By:



PLC59U Power-Line Communication Lightbar Guide to Operations

Thank you for purchasing a TowMate Lighting System!

System Features:

- Your complete system should include:
 - Lightbar with bolt-on base and 15' cable.
 - Power-Link controller (PLC-TX6, PLC-TX6BT, PLC-TXSW, or PLC-TX)
 - Hardwire Transmitter to control S/T/T portion of PLC59U that is also compatible with any current standard TowMate wireless tow light.

- Optional Bluetooth compatibility with PLC-TX6BT allows control using Smartphone or other Android device.
- Installs easily with only two wires!
- Lifetime Warranty
 - Covers Electronics and LED's
 - If ever the light fails to get a signal or an LED burns out, TowMate will replace the defective component at **no cost**.

Installation Instructions:

1. Decide which power source you will be tapping into in order to power the lightbar itself.
 - a. Refer to the attached diagram for the ideal installation for this light bar.
 - b. 10 gauge wire is recommended for your main power line for the light bar.
2. Mount the lightbar to the truck using the bolt-on assembly provided.
3. When installing the controller, tap into a separate 12V+ circuit than what the lightbar is connected to. Connecting to 12V+ off of the ignition is typically recommended.
 - a. Be sure it is still within the same 12V system of the truck if the truck has multiple 12V systems.
4. Mount your 6-button control pad where you can easily access it to activate your system.
5. Install the hardwire transmitter by connecting the appropriate wires to the trucks ground, turn signal, and brake (if separate from the turn signals) wires.
 - a. Green = Right Turn
 - b. Yellow = Left Turn
 - c. Red = Brake
 - d. White = Ground
6. Activate the left turn signal before powering the lightbar on, then power the bar on and allow approximately 10 seconds for the two to link.
 - a. Repeat this process for any wireless light bar you wish to operate in conjunction with your Power-Link light bar.
7. The unit should now be fully operational.

Instructions for Adjusting Controller Signal Power:

Some PLC installations require more signal power than other installs. The following is an explanation of the procedure for setting the output power level.

1. Preparing your control
 - a. Apply 12V power to the 6-button control. Verify that the PLC indicator is flashing red/green. Also, verify that all other functions are “activating” on the control.
 - b. REMOVE POWER
2. While pressing and holding the top left (Button 1/Left Arrow), reapply power.
 - a. The upper left LED will stay on steady.
 - b. The current power level setting is displayed on the bottom 3 LEDs. See example picture.



3. Press the upper right button to change the power level.
 - a. Each press will increment the power setting one position. Once the max level is reached, the power level will loop back to zero with the next press of the button.



4. To finish the power level setup, disconnect and reconnect power.
5. To verify the power setting, repeat step 2.



Bluetooth Linking to Android Device:

In order for the Bluetooth PLC Controller to communicate with an Android device, the controller must first be paired with the device. While the interface of different Android devices may slightly vary, the general process will remain the same:

1. Locate and select the device's "**Settings**" icon
2. Select the "**Bluetooth**" tab
3. Under "**Available Devices**" select **Power-Link**
4. Enter ID key **1234** to connect

General Operating Tips:

1. When the control and light bar have power, they will be ready to communicate at the push of a button.
2. The six buttons on the control pad are labeled according to their function (i.e. left arrow, center out, right arrow, strobe, work lights, and auxiliary).
3. The work lights and auxiliary functions can work in conjunction with, or separate from, any of the arrow or strobe patterns.
 - a. The auxiliary function allow for system expansion utilizing our PLC50 and PLC100 series of LED modules for the truck body.

Warranty/Service:

1. As with **all** TowMate products, there is a lifetime warranty on the electronics and LED's.
2. If you have any questions, or think you may require service, please call (800) 680-4455, and we will be happy to help.

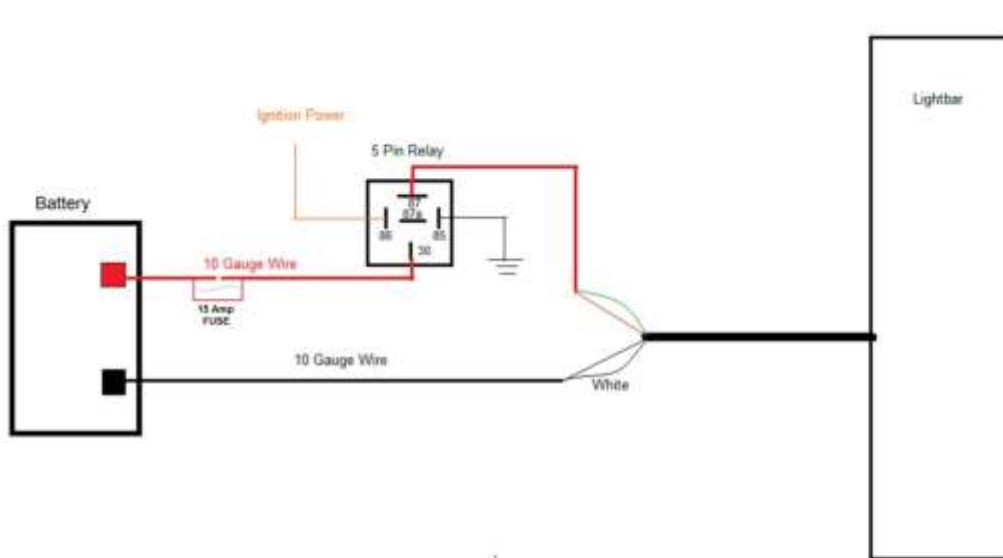
Also check out our other Power-Link lighting options



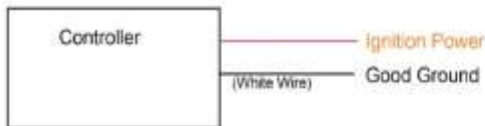
Features:

- Connects to any power and ground on the truck and is compatible/controllable with the PLC59 lightbar controller.
- Any Power-Link control can be purchased separately to control these in the absence of a Power-Link lightbar.
- These modules have several programmed patterns that can be chosen with the wave of a magnet over one end of the lens upon setup.
- When used with a Power-Link lightbar, the lens can be linked to activate with the specific functions of it. (example: activate markers to flash on the left side of the truck when the left arrow pattern is chosen)
- These lenses eliminate the need to run wires all the way from a central controller to the lens. Instead, tie into power and ground on the same truck from either component.
- Lifetime Warranty

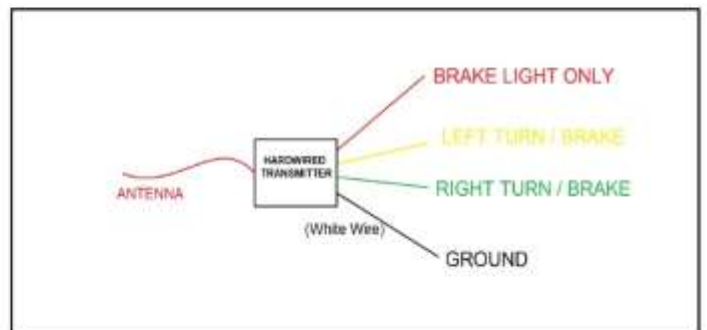
Diagram of light bar installation



- KEY INSTALL POINTS**
- If replacing an existing lightbar, there should already be 10 gauge or larger wires run, use these wires but install a relay in line so that power is controlled by the ignition
 - If you cannot connect wires directly to the battery, get as close to the battery as possible (Even tho the lightbar only uses approx 4 amps, the data communication requires a solid connection)
 - Where possible, connect the controller to the same Ignition Power that operates the relay
 - The hardwired transmitter operates the brake and turn signals wirelessly but you need to make sure the turn signals you connect to also activate with the brake lights. NOT ALL TOW TRUCK TURN SIGNAL CIRCUITS POWER UP WHEN THE BRAKES ARE PRESSED! If the circuit does NOT do both, you will need to connect the red wire to a brake light circuit. If the circuit does both, do NOT connect the red wire.



Mount anywhere on dash with #6 screws that are either 1" or 1 1/2" long



** When testing for a ground circuit to connect the white wire on the transmitter we strongly recommend having all the lights turned on - This will prevent you from connecting to a floating ground (Which will cause crazy things to happen)