



# BESPOKE POWER

## BP-C9WY-6973-U Installation Guide

Congratulations on your purchase of your new state-of-the-art taillight sequencer. This sequencer is a universal fit for any vehicle with 2-3 taillights for each side of the vehicle.

### What's in the Box:

1. 1 – BP-C9WY-6973-U with color coded connectors
2. Mating cables with flying leads
3. 6 - Wire splices
4. 3 – sheet metal screws

### Tools Required

1. Small bladed screwdriver (for any adjustments)
2. Needle nose pliers
3. Regular pliers for wire splices
4. Wire cutters
5. Drill w/1/8" bit

### Installation

#### Part 1 - Mounting the Unit

1. Find a suitable location for mounting the sequencer housing at the rear of the vehicle. The ideal location will adequately support the housing and not be subject to water spray. Mounting is not sensitive to orientation.
2. Identify and locate the existing wires that power the Stop/TL circuits. A wiring diagram and service manual will be a great help for this.
3. Drill 2 mounting holes in the vehicle for the self-tapping screws that secure the flanges on the sequencer housing. Install and tighten the screws being careful not to crack the plastic flanges.
4. Drill another hole for securing the ground connection to the chassis of the vehicle. Install the screw through the ring terminal and tighten for a good ground connection. A poor ground connection will affect sequencer operation.
5. The solid green wire is for connection to a separate brake signal if one is present. Vehicle not originally designed for a sequencer does not usually have this connection. If unused, the green wire may be grounded or left open.



# BESPOKE POWER

## Part 2 – Connecting the Sequencer

1. Separate the middle and outer Stop/TL connections from the existing vehicle wiring. Note: the inner Stop/TL bulb should remain connected to the existing wiring.
2. Connect the Orange/Blue wire to the right hand side inner bulb Stop/TL wire using one of the supplied wire splices.
3. Connect the Green/Orange wire to the left hand side inner bulb Stop/TL wire using one of the supplied wire splices.
4. Connect the Orange/white wire to the right hand side middle bulb Stop/TL wire using one of the supplied wire splices. This bulb should no longer be connected to the existing vehicle wiring.
5. Connect the Green/red wire to the left hand side middle bulb Stop/TL wire using one of the supplied wire splices. This bulb should no longer be connected to the existing vehicle wiring.
6. Connect the Orange/red wire to the right hand side outer bulb Stop/TL wire using one of the supplied wire splices. This bulb should no longer be connected to the existing vehicle wiring.
7. Connect the Green/blk wire to the left hand side outer bulb Stop/TL wire using one of the supplied wire splices. This bulb should no longer be connected to the existing vehicle wiring.
8. Trim wires and secure them as needed to make a clean installation. See the wiring diagrams for a pictorial view.
9. If your vehicle has only 2 bulbs per side, it is permissible to connect the outer bulb connection to the middle bulb or leave it unconnected but it should **not** be grounded.
10. Your sequencer is now installed and ready to use or adjust as needed.

## Adjustments

There are 2 adjustments (3 if the green brake signal is used) on the BP-C9WY-6973-U. The user may independently adjust the left and right sequence rate of the bulbs. Temporarily remove the housing cover to access the adjustments and/or view the diagnostic LEDs.

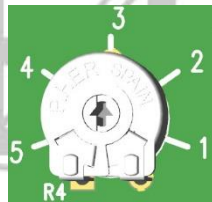


# BESPOKE POWER

## Sequence Rate Adjustment

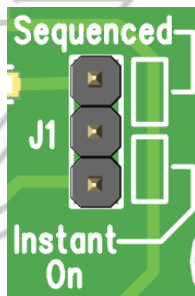
The sequence rate is set to 300ms at the factory but has an adjustment range of 150ms to 720ms. LED bulb and incandescent bulbs have different characteristics (see BPWP-001 for a detailed explanation) and will have different settings.

1. Turn the ignition to “on” and activate the right turn signal.
2. Using a small bladed screwdriver, turn R7 or R4 CW for a faster rate or CCW for a slower rate. Do not force the control past the stops or the component can be damaged.
  - a. R7 controls the right-side lights
  - b. R4 controls the left-side lights
3. There are markings (1-5) on the board to guide you on setting the sequence rates. The left and right sides are set independently.

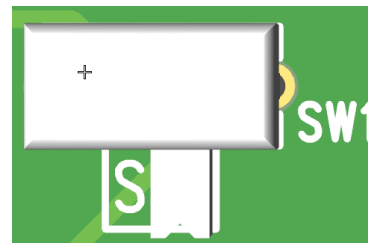


## Stop Light Activation

The stop light can come on instantly and stay on (default) or sequenced on and stay on. To change this In Version 1, move the jumper on J1 using needle nose pliers to the desired position. To change this in Version 2, move the switch to the “S” position.



Version 1



Version 2

## Flash Rate Adjustment

The sequence rate is set by the sequencer however the flash rate is set by the flasher. The sequencer is fully compatible with both LEDs and incandescent bulbs but the flasher may not be. To avoid flasher problems, we recommend using one of our fully adjustable electronic flashers such as the BSP-FLSH1 which work with both LEDs and incandescent bulbs.

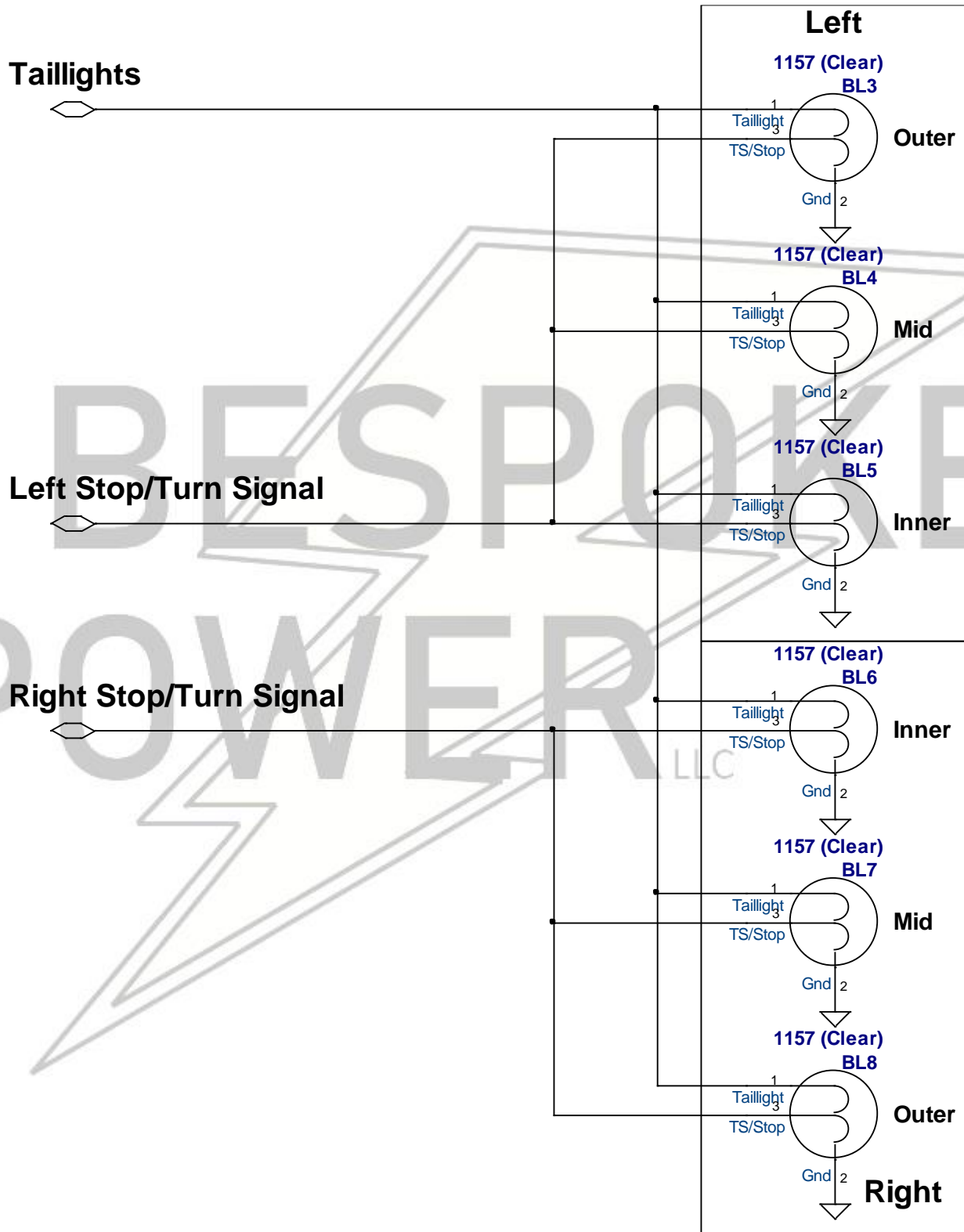


Figure 1. Typical Stock Vehicle Wiring

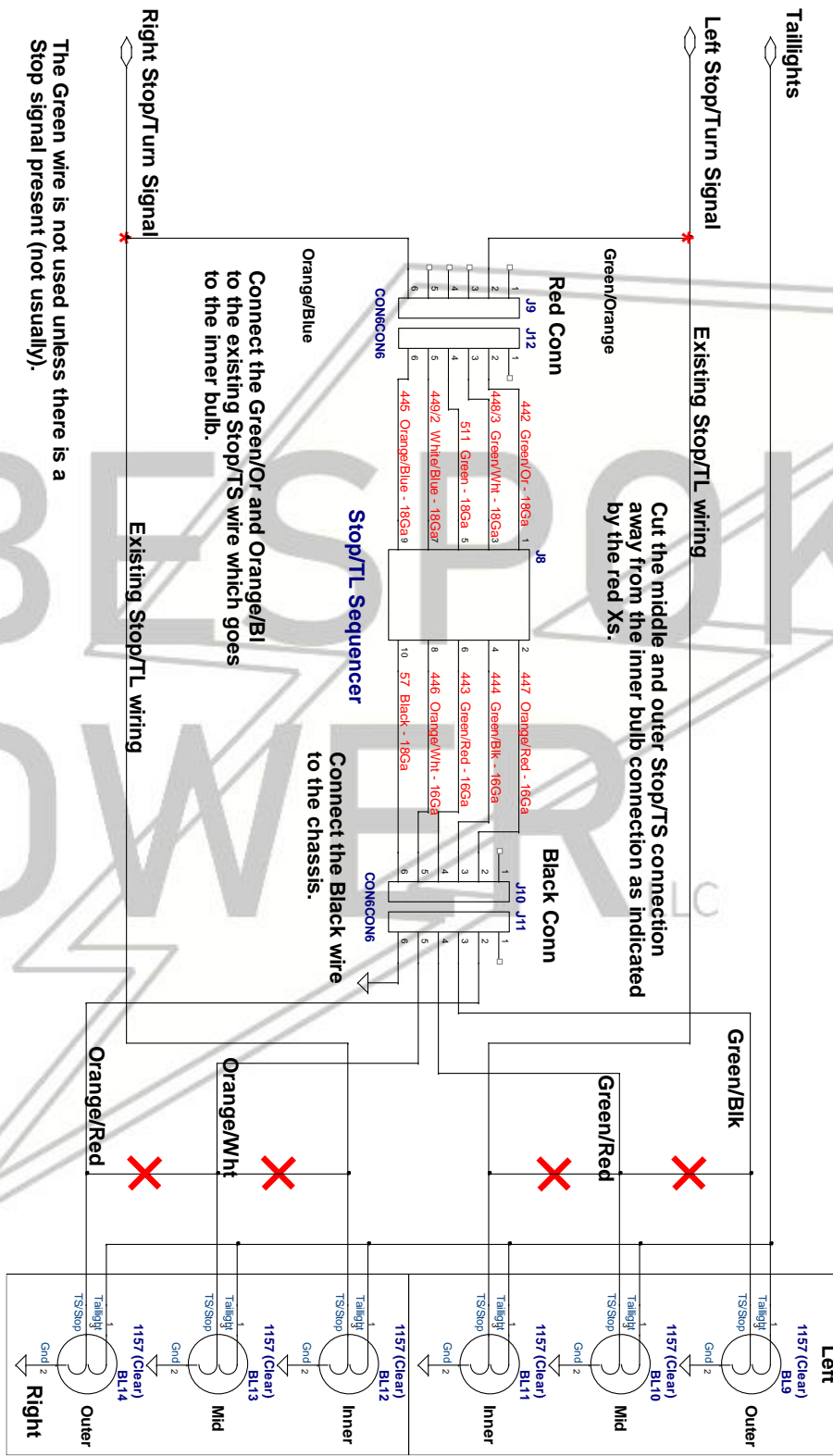


Figure 2. Sequencer Wiring