

## FLASHING TDs & ALLEYS

Activate Flashing TDs & Alleys by applying +VDC to **RED-BLK** wire. To scroll to a different configuration, tap +VDC to **YELLOW** wire:

- TDs and Alleys flashing
- Alleys only flashing
- TDs only flashing

**NOTE:** Flashing TDs & Alleys have priority over the steady burn functions.

## TRAFFIC ARROWS

During Mode 1, Mode 2, or Mode 3, activate Traffic Arrow functions by applying +VDC to:

- **ORANGE** wire for Left Arrow.
- **BLUE** wire for Right Arrow.
- **ORANGE & BLUE** wires for Center Out.

To configure the Traffic Arrow flash patterns, tap +VDC to **YELLOW** wire:

- Once for next pattern (refer to Traffic Arrow Patterns chart).
- Quickly 3 times within 1 second for reset to FP#0.

FP#	Traffic Arrow Patterns
0	Sweep Single
1	Sweep Double
2	Sweep Triple
3	Sweep Single End-Double
4	Solid
5	Solid End-Double
6	Solid Chaser
7	Solid Fade
8	Blink Double
9	Blink Triple
10	Blink Solid

**NOTE:** If the bar is equipped with the Dual Color Traffic Arrow option, the rear lightheads will automatically switch to Amber when the Traffic Arrow function is activated; and will automatically switch back when the Traffic Arrow function is deactivated.

## OTHERS

To activate other functions, apply +VDC to:

- **BROWN-BLK** wire for Take Down Lights
- **ORANGE-BLK** wire for Right-Side Alley Light
- **BLUE-BLK** wire for Left-Side Alley Light
- **YELLOW-BLK** wire for Front cutoff
- **GREEN-BLK** wire for Rear cutoff
- **GREEN** wire for Low Power

## LIGHTBAR COLOR CHANGE

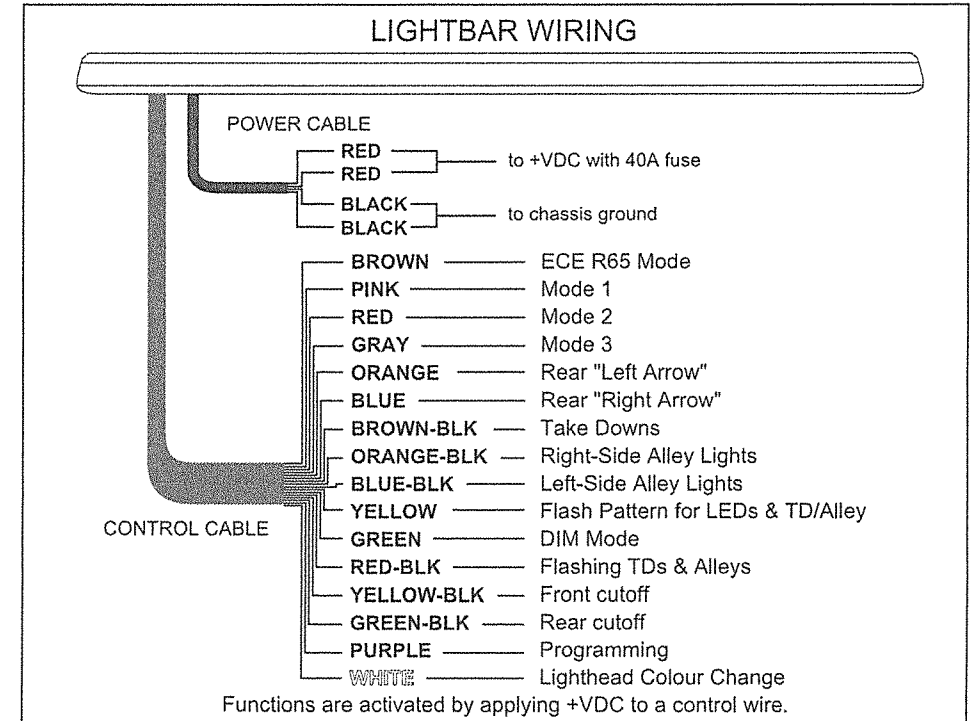
If the bar is equipped with Dual Color lightheads, the lighthead color can be switched by applying +VDC to **WHITE** wire during Warning Mode.

# Operation Manual



## WIRING & FUNCTIONS (CA/CB/CC/CD)

Different applications require different functions. It is highly recommended to determine and configure the required functions prior to Installation; (refer to 'CONTROL CABLE' section).



**NOTE:** Middle Section lights are independently switched and are not part of the R65 Approval.

## POWER CABLE

1. Route Power Cable to the vehicle firewall towards the battery.
2. Follow factory wiring harness through the firewall. It may be necessary to drill a hole in the firewall. Ensure that there are no components that could be damaged from the drilling.
3. Route the cable to the battery.
4. Splice the 2 **RED** wires to form a single wire.
5. Install a 40Amp fuse (user-supplied) on the end of **RED** wire, then connect to battery.
6. Splice the 2 **BLACK** wires to form a single wire.
7. Connect **BLACK** wire to the factory chassis ground adjacent to the battery.

**NOTE:** make sure that all wires of power cable are securely connected to power source.

## CONTROL CABLE

1. Route Control Cable towards the dash area to a switch panel (user-supplied).
2. Connect the required wires to the switch panel.

### ECE R65 WARNING MODE

Activate R65 Mode by applying **+VDC** to **BROWN** wire. This activates the lightbar outer sections only. There is a list of built-in flash patterns to choose from. While in R65 Mode, tap **+VDC** to **YELLOW** wire:

- Once for next pattern.
- Quickly 3 times for FP#0.

**NOTE:** R65 Mode has priority over all other Modes, and will override other functions when active.

FP#	ECE R65 Mode
0	Double All
1	Quad All
2	Single All
3	Double Split
4	Quad Split
5	Single Split

### MODE 1, MODE 2, MODE 3

Activate desired Mode by applying **+VDC** to **PINK** wire (Mode 1), **RED** wire (Mode 2), or **GRAY** wire (Mode 3). This activates the lightbar according to the Flash Patterns chart. While active, tap **+VDC** to **YELLOW** wire to change pattern.

FP#	FLASH PATTERNS		
	Mode 1	Mode 2	Mode 3
0	Single Split (rear only)	Single Split	Random
1	Double Split (rear only)	Double Split	Double Split
2	Quad Split (rear only)	Quad Split	Quad Split
3	Single-Quad Split (rear only)	Single-Quad Split	Single-Quad Split
4	Side-by-Side Single (rear only)	Side-by-Side Single	Side-by-Side Single
5	Side-by-Side Quad (rear only)	Side-by-Side Quad	Side-by-Side Quad
6	Single Split (front only)	Outside-In Single	Outside-In Single
7	Double Split (front only)	Outside-In Quad	Outside-In Quad
8	Quad Split (front only)	Single All	Single All
9	Single-Quad (front only)	Double All	Double All
10	Side-by-Side Single (front only)	Quad All	Quad All
11	Side-by-Side Quad (front only)	Single-Quad All	Single-Quad All

**NOTE:** Flash Pattern #0 can be user customized by entering PROGRAM Mode, (refer to PROGRAMMING section). All other patterns are still available after customization is done. There is a reset function which restores original factory setting; refer to RESET section.

## PROGRAMMING

FP#0 of each Mode can be user customized.

To configure flash pattern:

1. Activate the desired Mode by applying **+VDC** to: **BROWN** wire (Mode 1), **PINK** wire (Mode 2), or **RED** wire (Mode 3).
2. Enter PROGRAMMING mode by quickly tapping **+VDC** to **PURPLE** wire 3 times within 1 second.
3. Once in PROGRAMMING mode, all lightheades will faintly blink once every second. The inner forward-facing pair of lightheades will be activated.

**NOTE:** If the inner forward-facing heads are Take Downs, then tap **+VDC** to **PURPLE** wire once to scroll to the next pair of lightheades.

4. Tap **+VDC** to **YELLOW** wire:
  - Once for next pattern (see Lighthead Patterns).
  - Quickly 3 times within 1 second for FP#0.
5. Scroll to the next pair of lightheades by tapping **+VDC** to **PURPLE** wire.
6. Repeat steps 4 and 5 until all lightheades are properly configured.
7. Exit PROGRAM mode by quickly tapping **+VDC** to **PURPLE** wire 3 times within 1 second.

FP#	Lighthead Patterns
0	Steady
1	Single Slow (split)
2	Single 2Hz (split)
3	Single Fast (split)
4	Double 2Hz (split)
5	Double (split)
6	Quad (split)
7	Ultra (split)
8	Single-Quad (split)
9	Single H/L (split)
10	Random
11	Off
12	Single Slow (all)
13	Single 2Hz (all)
14	Single Fast (all)
15	Double 2Hz (all)
16	Double (all)
17	Quad (all)
18	Ultra (all)
19	Single-Quad (all)
20	Single H/L (all)

## RESETTING

To restore factory setting:

1. With no wires activated, enter RESET mode by tapping **+VDC** to **PURPLE** wire for more than 1 second.
2. Once in RESETTING mode, the lightbar will display:  
single flash = Mode 1 or double flash = Mode 2 or triple flash = Mode 3
3. Select Mode to reset by tapping **+VDC** to **PURPLE** wire once to change Modes.
4. Apply **+VDC** to **PURPLE** wire for 2~4 seconds to restore factory setting.
5. Exit RESETTING mode by tapping **+VDC** to **PURPLE** wire for 5 seconds or more.