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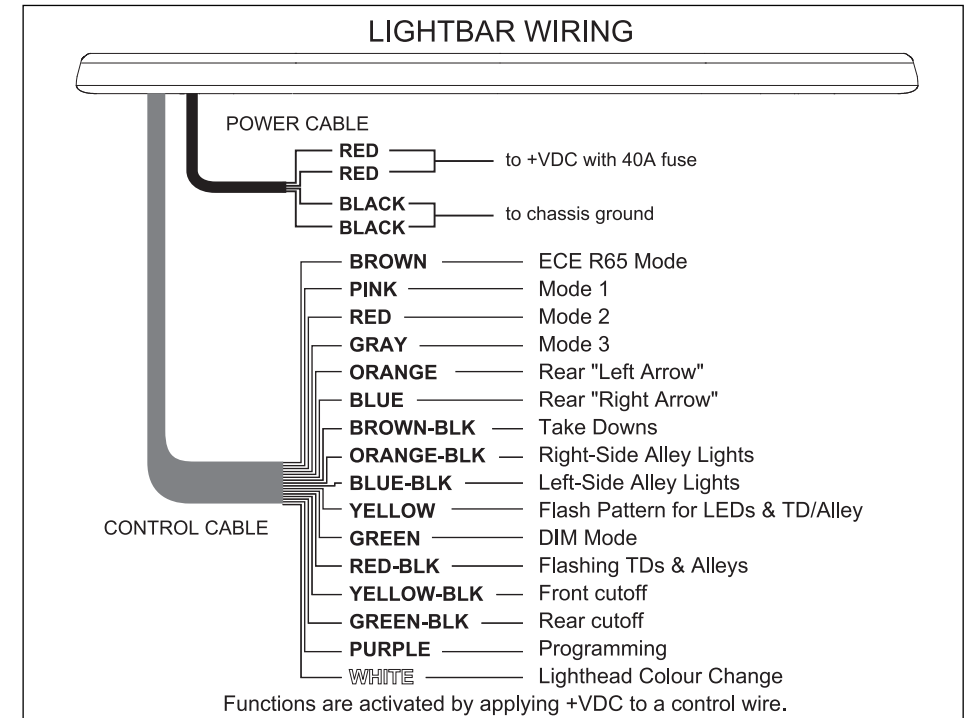
WIRING & FUNCTIONS (CA/CB/CC/CD)

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

LIGHTBAR WIRING

POWER CABLE

Wire	Function
RED / RED	to +VDC with 40A fuse
BLACK / BLACK	to chassis ground
BROWN	ECE R65 Mode
PINK	Mode 1
RED	Mode 2
GRAY	Mode 3
ORANGE	Rear "Left Arrow"
BLUE	Rear "Right Arrow"
BROWN-BLK	Take Downs
ORANGE-BLK	Right-Side Alley Lights
BLUE-BLK	Left-Side Alley Lights
YELLOW	Flash Pattern for LEDs & TD/Alley
GREEN	DIM Mode
RED-BLK	Flashing TDs & Alleys
YELLOW-BLK	Front cutoff
GREEN-BLK	Rear cutoff
PURPLE	Programming
WHITE	Lighthead Colour Change

CONTROL CABLE

Functions are activated by applying +VDC to a control wire.

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 outter 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 lightheads will faintly blink once every second. The inner forward-facing pair of lightheads will be activated.

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

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 lightheads by tapping **+VDC** to **PURPLE** wire.

6. Repeat steps 4 and 5 until all lightheads 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.