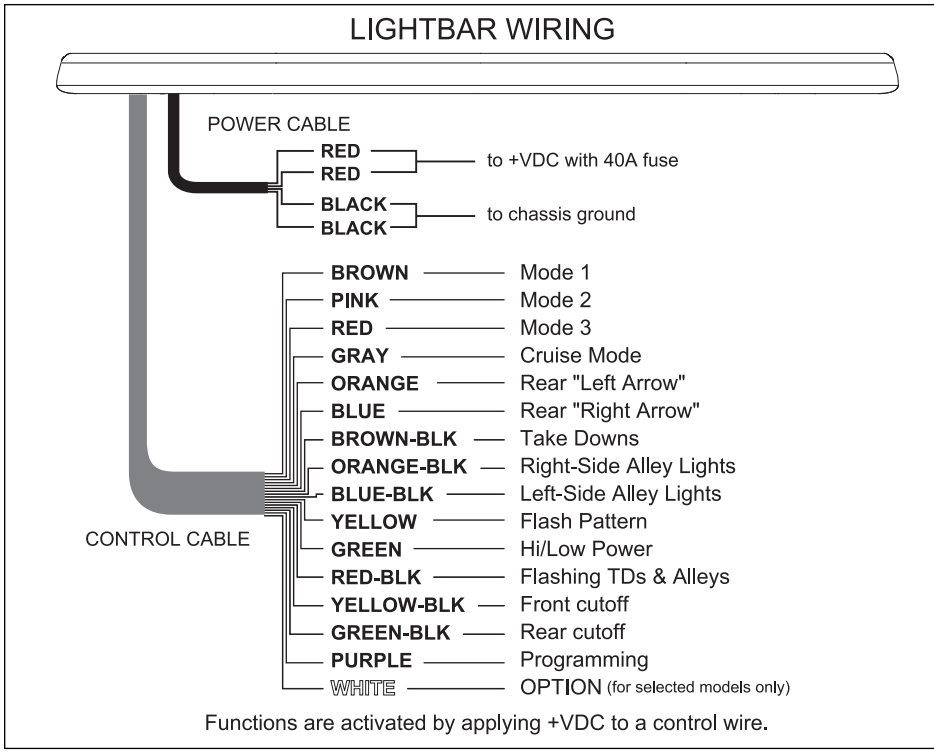
WIRING & FUNCTIONS (L1/M1/C1)

Different applications require different functions. It is highly recommended to determine and configure the required functions prior to Installation.



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 no components are 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.

MODE 1, MODE 2, MODE 3

In each Mode, there is a list of built-in flash patterns to choose from.
To change flash patterns:

1. Activate the desired Mode by applying **+VDC** to **BROWN**, **PINK**, or **RED** wire.
   - **BROWN** wire for Mode 1.
   - **PINK** wire for Mode 2.
   - **RED** wire for Mode 3.
2. While the Mode is activated, tap **+VDC** to **YELLOW** wire:
   - Once for next pattern (refer to Flash Patterns charts).
   - Quickly 3 times for FP#0.

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

   *If lightbar is equipped with full Dual Color function lighthead color can be changed by momentarily applying **+VDC** to WHITE wire:
   - Color Mode1 = Color1 only
   - Color Mode2 = Color2 only
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 Mid (split)
3	Single Fast (split)
4	Double (split)
5	Double (split)
6	Quint (split)
7	Ultra (split)
8	Single-Quad (split)
9	Single H/L (split)
10	Random
11	Off
12	Single Slow (all)
13	Single Mid (all)
14	Single Fast (all)
15	Double (all)
16	Double (all)
17	Quint (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.

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.

CRUISE MODE

Activate Cruise mode by applying **+VDC** to **GRAY** wire. All corner lightheads will be activated in low power steady burn. To activate more lightheads tap **+VDC** to **PURPLE** wire while in CRUISE mode; the lightheads immediately next to the corner lightheads will be activated.

TRAFFIC ARROWS

During Mode 1, Mode 2, or Cruise mode, 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

OPTION (for selected models only)

WHITE wire is to be connected to SW610-T1 Switch Panel (sold seperately). For full Dual Color LED lightbars, apply **+VDC** to change LED color during Warning Modes.