

Lightbar Programming Guide: Maxibar XB (Advanced Spec only)



WARNING

Ensure that you **DO NOT** look directly at the high power XB LED modules as this is likely to result in permanent eye damage due to their light output. Consider wearing suitable eye protection.

Programming warning modes

The Maxibar XB lightbar can be programmed using the lightbar control cable. The lightbar has a wide variety of Flash Patterns built into the flasher memory. Using a new EEPROM flash memory, the flasher can be reprogrammed many times. The programs have been designed to allow independent programming of the front, rear and side modules of the lightbar. Factory patterns settings and a complete list of available patterns are detailed in Appendix A for the type of Maxibar XB lightbar you have ordered.

There are two ways to control the XB lightbar. The first method is to control the lightbar by using a progressive slide switch. The second method is to control the lightbar using independent rocker or on/off switches.

Entering programming mode

To activate the lightbar programming mode:

- 1) GROUND the 10 AWG BLACK wire.
- 2) Apply +12VDC to the 12 AWG RED wire.
- 3) Apply +12VDC to the GRN input wire.
- 4) Apply +12VDC to program the desired mode (see chart below)

NOTE: All 7 combinations of the 3 mode wires (ORG, BLU, WHT/BLK) can be programmed uniquely. If two or more wires are to be activated simultaneously, the wire combination must be programmed as well.

Program progressive slide switch	Apply +12VDC to;
Mode 1 - ORG	ORG
Mode 2 - ORG + BLU	ORG, BLU
Mode 3 - ORG + BLU + WHT/BLK	ORG, BLU, WHT/BLK

Program independent switch	Apply +12VDC to;
Switch 1 - ORG	ORG
Switch 2 - BLU	BLU
Switch 3 - WHT/BLK	WHT/BLK

Once Programming Mode has been entered, tap (apply and remove) the appropriate wire to advance through the available flash patterns and rates. Continue until the desired activation is selected. Repeat step 4 for additional mode programming. Remove power from all wires to exit programming mode.

Advance pattern selection

Tapping the Red/White wire advances the Rear Warning Lamps.
Tapping the Brown/White wire advances the Front Warning Lamps.
Tapping the Grey wire advances the Side Warning Lamps.

Advance flash rate selection

Tapping the Red/White + White wires advances the Rear Flash Rate.
Tapping the Brown/White + White wires advances the Front Flash Rate.
Tapping the Grey + White wire advances the Side Flash Rate.

Advance optional features (if ordered)

Tapping the Brown wire toggles the Takedown light between Off and Flashing.
Tapping the White wire toggles the 'Rearwork' light between Off and Flashing.
Tapping the Yellow wire toggles the Alley lights between Off and Flashing.

Programming traffic director modes

Entering programming mode

To activate the lightbar programming mode:

- 1) GROUND the 10 AWG BLACK wire.
- 2) Apply +12VDC to the 12 AWG RED wire.
- 3) Apply +12VDC to the GRN input wire.
- 4) Apply +12VDC to RED/WHT input wire.

NOTE: The Traffic Director modes are (RED/WHT) Right Arrow, (BRN/WHT) Left Arrow and (RED WHT + BRN/WHT) Centre Out. Traffic Direction modes are only available when at least five XB LED modules are configured to the rear of the XB lightbar. Once Programming Mode has been entered, tap (apply and remove) the appropriate wire to advance through the available flash patterns and rates. Continue until the desired activation is selected. Remove power from all wires to exit programming mode.

Advance pattern selection

Tapping the White/Black wire advances the Direction pattern.
Tapping the Orange wire advances the Front warning lamps pattern.
Tapping the Grey wire advances the Side warning lamps pattern.
Tapping the Blue wire advances the Rear Outboard warning lamps pattern.

NOTE: During normal operation, the Rear Outboard warning lamps will flash only when the TRAFFIC DIRECTION mode has been programmed for flashing Rear Outboards and a WARNING mode has been programmed for any flashing REAR lamps and both are activated at the same time.

Advance flash rate selection

Tapping the White/Black + White wire advances the Direction flash rate.
Tapping the Orange + White wire advances the Front warning flash rate.
Tapping the Grey + White wire advances the Side warning flash rate.
Tapping the Blue + White wire advances the Rear Outboard warning flash rate.

Advance optional features (if ordered)

Tapping the Brown wire toggles the Takedown light between Off and Flashing.
Tapping the White wire toggles the Rearwork light between Off and Flashing.
Tapping the Yellow wire toggles the Alley lights between Off and Flashing.

NOTE: During normal operation, the flashing REARWORK light will flash only when the TRAFFIC DIRECTION mode has been programmed for flashing REARWORK light and a WARNING mode has been programmed for a flashing REARWORK light and both are activated at the same time.

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Progressive slide switch application

Mode 1

+12VDC **ORANGE** Control Wire Activated
 Front Warning Lamps: Off
 Rear Warning Lamps: Combination - Scroll Flash
 Side Warning Lamps: Off

Mode 2

+12VDC **ORANGE & BLUE** Control Wires Activated
 Front Warning Lamps: Combination - Scroll Flash
 Rear Warning Lamps: Off
 Side Warning Lamps: Front Side Alternating - Scroll Flash

Mode 3

+12VDC **ORANGE, BLUE & WHITE/BLACK** Control Wires Activated
 Front Warning Lamps: Combination - Scroll Flash
 Rear Warning Lamps: Combination - Scroll Flash
 Side Warning Lamps: All Side Alternating - Scroll Flash
If ordered, Optional Takedown - Flashing

Traffic Directional Modes:

+12VDC **BRN/WHT** Control Wires Activated
 Front Warning Lamps: Off
 Rear Warning Lamps: LEFT ARROW 7 FULL- Single Flash
 Side Warning Lamps: Off

+12VDC **RED/WHT** Control Wires Activated
 Front Warning Lamps: Off
 Rear Warning Lamps: RIGHT ARROW 7 FULL- Single Flash
 Side Warning Lamps: Off

+12VDC **BRN/WHT & RED/WHT** Control Wires Activated
 Front Warning Lamps: Off
 Rear Warning Lamps: CENTER OUT 7 FULL - Single Flash
 Side Warning Lamps: Off

NOTE: Traffic Director Mode activation overrides any currently activated Rear Warning Modes. Traffic Director Mode activation does not override any currently activated Front or Side Warning Modes. Traffic Direction Modes are only available when at least five XB LED Modules are configured to the Rear of the Lightbar.

FRONT WARNING LAMP PATTERNS (DF3, DF2, DF1, FC, PF1, PF2, PF3):

- 1) OFF
- 2) COMBINATION (PATTERN 5, 4, 6, 4, REPEAT)
- 3) INBOARD / OUTBOARD
- 4) LEFT / RIGHT
- 5) ALTERNATING PATTERN #1
- 6) ALTERNATING PATTERN #2
- 7) RANDOM
- 8) SINGLE OUTBOARDS ONLY
- 9) DUAL OUTBOARDS ONLY
- 10) SINGLE FLASHER - DF2 Lamp
- 11) FRONT WARNING 5 LAMP

Note: All patterns can be programmed to operate with or without flashing TAKE-DOWNS.

REAR WARNING LAMP PATTERNS (DR3, DR2, DR1, RC, PR1, PR2, PR3):

- 1) OFF
- 2) COMBINATION (PATTERNS 5, 4, 6, 4, REPEAT)
- 3) INBOARD / OUTBOARD
- 4) LEFT / RIGHT
- 5) ALTERNATING PATTERN #1
- 6) ALTERNATING PATTERN #2
- 7) RANDOM

- 8) SINGLE OUTBOARDS ONLY
- 9) DUAL OUTBOARDS ONLY
- 10) REAR WARNING 5 LAMP

Note: All patterns can be programmed to operate with or without flashing REARWORKS.

SIDE WARNING LAMP PATTERNS (DRC, DA, DFC & PRC, PA, PFC):

- 1) OFF
- 2) REAR SIDE LAMPS ONLY
- 3) FRONT SIDE LAMPS ONLY
- 4) ALL SIDE LAMPS ALTERNATING

Note: All patterns can be programmed to operate with or without flashing ALLEY lamps.

REAR TRAFFIC DIRECTION LAMP PATTERNS WITH NO REAR WORK:

- 1) 7 ELEMENT FULL ARROW
- 2) 7 ELEMENT TRAIL ARROW
- 3) 5 ELEMENT FULL ARROW
- 4) 5 ELEMENT TRAIL ARROW

Note: Patterns 3 and 4 can be programmed with SINGLE ALTERNATING or SIMULTANEOUS OUTBOARDS.

REAR TRAFFIC DIRECTION LAMP PATTERNS WITH OUTBOARD REAR WORK:

- 1) 5 ELEMENT FULL ARROW
- 2) 5 ELEMENT TRAIL ARROW

REAR TRAFFIC DIRECTION LAMP PATTERNS WITH CENTER REAR WORK:

- 1) 6 ELEMENT FULL ARROW
- 2) 6 ELEMENT TRAIL ARROW

FLASH RATES:

- 1) SINGLE FLASH
- 2) DOUBLE FLASH
- 3) ULTRA FLASH
- 4) SCROLL FLASH WARNING PATTERNS (4 SECONDS EACH OF ALL RATES)

SCROLL FLASH TRAFFIC DIRECTION PATTERNS (2 CYCLES OF PATTERN)

NOTE: Each section of the lightbar can operate at different flash rates in the same mode, and or, the lightbar can operate different flash rates in each mode.

LIGHTBAR POWER & CONTROL CABLE KEY

Colour	Function
Red	+12VDC Power
Black	GROUND
Orange	+12VDC Mode 1 Control
Blue	+12VDC Mode 2 Control
White/Black	+12VDC Mode 3 Control
Green	GROUND - DIM
Brown	+12VDC Takedown
White	+12VDC Rearwork or centre independent lamp
Red/White	+12VDC Right arrow traffic director
Brown/White	+12VDC Left arrow traffic director
Red/White & Brown/White	+12VDC Centre out traffic director
Grey	+12VDC Left alley
Yellow	+12VDC Right alley
Red (Second)	N/A
Violet	N/A