

**970x-53DT-xxT NFPA LIGHTBAR**

**FACTORY SET FLASH PATTERNS**

**Progressive Slide Switch application:**

**Mode 1:** +12 Vdc **ORANGE** Control Wire Activated

Front Warning Lamps: Inboard / Outboard - Single Flash 75

Rear Warning Lamps: Inboard / Outboard - Single Flash 75

Side Warning Lamps: Alternating Front / Rear, Both Sides Concurrently - Single Flash 75

**Front White TD's Off**

**Side Whites Off**

**Mode 2:** +12 Vdc **ORANGE & BLUE** Control Wires Activated

Front Warning Lamps: Combination - Double Flash 110

Rear Warning Lamps: Combination - Double Flash 110

Side Warning Lamps: Alternating Left / Right, Front and Rear Lamps Concurrently - Double Flash 110

**Front White TD's Flashing**

**Side Whites Flashing**

**Mode 3:** +12 Vdc **ORANGE & BLUE & WHITE/BLACK** Control Wires Activated

Front Warning Lamps: Combination - Double Flash 110

Rear Warning Lamps: Combination - Double Flash 110

Side Warning Lamps: Alternating Left / Right, Front and Rear Lamps Concurrently - Double Flash 110

**Front White TD's Flashing**

**Side Whites Flashing**

**Independent Switch application:**

**Mode A:** +12 Vdc **ORANGE** Control Wire Activated

*Progressive Slide Mode 1 configuration above, is MODE A*

**Mode B:** +12 Vdc **BLUE** Control Wire Activated

*same configuration as Progressive Slide Mode 2 above*

**Mode C:** +12 Vdc **WHITE/BLACK** Control Wire Activated

*same configuration as Progressive Slide Mode 3 above*

**Mode D:** +12 Vdc **ORANGE & BLUE** Control Wires Activated

*Progressive Slide Mode 2 configuration above, is MODE D*

**Mode E:** +12 Vdc **ORANGE & WHITE/BLACK** Control Wires Activated

*same configuration as Progressive Slide Mode 1 above*

**Mode F:** +12 Vdc **BLUE & WHITE/BLACK** Control Wires Activated

*same configuration as Progressive Slide Mode 3 above*

**Mode G:** +12 Vdc **ORANGE & BLUE & WHITE/BLACK** Control Wires Activated

*Progressive Slide Mode 3 configuration above, is MODE G*

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**Traffic Directional Modes:**

**Left Mode:** +12 Vdc **BRN/WHT** Control Wires Activated

Front Warning Lamps: Off

Rear Warning Lamps: *LEFT ARROW 7 FILL, Outboards Off - Single Flash*

Side Warning Lamps: Off

**Right Mode:** +12 Vdc **RED/WHT** Control Wires Activated

Front Warning Lamps: Off

Rear Warning Lamps: *RIGHT ARROW 7 FILL, Outboards Off - Single Flash*

Side Warning Lamps: Off

**Center Out Mode:** +12 Vdc **BRN/WHT & RED/WHT** Control Wires Activated

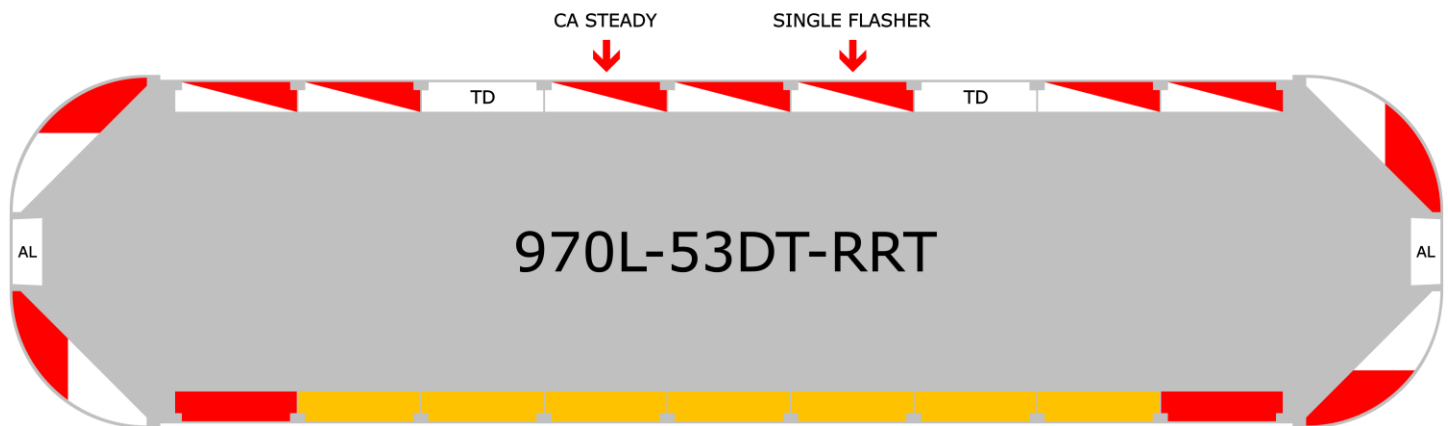
Front Warning Lamps: Off

Rear Warning Lamps: *CENTER OUT 7 FILL, Outboards Off - Single Flash*

Side Warning Lamps: Off

**NOTE:** Traffic Directional Mode activation overrides any currently activated Rear Warning Modes. Traffic Direction Mode activation does not override any currently activated Front or Side Warning Modes.

**Example Layout for 970x-53DT-RRT**



**970x-53DT-xxT NFPA LIGHTBAR**

**WIRED CONTROL & POWER WIRES**

Red	+12 Vdc Power
Black	GROUND
Orange	Mode A Control (Progressive Slide Mode 1)
Blue	Mode B Control
White/Black	Mode C Control
Orange & Blue	Mode D Control (Progressive Slide Mode 2)
Orange & White/Black	Mode E Control
Blue & White/Black	Mode F Control
Orange & Blue & White/Black	Mode G Control (Progressive Slide Mode 3)
Green	LED Low Intensity
Brown	Takedowns and Front White Override
White	California Steady (not overridden by Takedowns and Front Whites)
Gray	Driver Alley and/or Driver Side White Override
Yellow	Passenger Alley and/or Passenger Side White Override
Red	Not Used
Violet	Parking Brake Warning Mode Override to Mode A
Red/White	Right Arrow Traffic Director
Brown/White	Left Arrow Traffic Director
Red/White & Brown/White	Center-Out Arrow Traffic Director
Pink	Not Used
Red/Black	Not Used
Red/Green	Not Used
Red/Yellow	Not Used
Tan	Not Used
White/Blue	Not Used

**Mode Activation: All control wires, except Green and Violet, are +12 VDC activated. The Green wire (LED Low Intensity) is GROUND activated. The Violet wire (Parking Brake Warning Mode Override) is GROUND activated. The Parking Brake Warning Mode Override is Non-Latching.**

**FUNCTION PRIORITIES - WIRED**

California Steady	Highest Priority
Takedowns (and Front Whites of Dual Color lamps)	
Passenger Alley (and Passenger Corner Whites)	
Driver Alley (and Driver Corner Whites)	
LED Low Intensity	
Warning Mode	Lowest Priority

**NOTE:** Activating the Violet wire will Override the Warning Mode, switching to Mode A/Progressive Slide Mode 1, if a Warning Mode other than Off or Mode A is currently activated.

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**FRONT WARNING LAMP PATTERNS (LAMPS DF4 - DF1, FC, PF1 - PF4):**

- 1) OFF
- 2) COMBINATION (PATTERN 5, 4, 3, 4, REPEAT)
- 3) INBOARD / OUTBOARD
- 4) LEFT / RIGHT
- 5) ALTERNATING
- 6) RANDOM
- 7) SINGLE OUTBOARDS ONLY
- 8) DUAL OUTBOARDS ONLY
- 9) SINGLE FLASHER
- 10) SINGLE INBOARDS ONLY
- 11) DUAL INBOARDS ONLY
- 12) ALL ON
- 13) SWEEP (TRAILING ARROW / ALTERNATING L-R)

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

**Note:** All patterns can be programmed to operate with or without (default) a CA Steady lamp. In Program Mode, tap the Violet wire (Wired control) to GROUND to toggle the CA Steady functionality On and Off.

**REAR WARNING LAMP PATTERNS (LAMPS DR4 - DR1, RC, PR1 - PR4):**

- 1) OFF
- 2) COMBINATION (PATTERN 5, 4, 3, 4, REPEAT)
- 3) INBOARD / OUTBOARD
- 4) LEFT / RIGHT
- 5) ALTERNATING
- 6) RANDOM
- 7) DUAL OUTBOARDS ONLY
- 8) SINGLE FLASHER
- 9) SINGLE INBOARDS ONLY
- 10) DUAL INBOARDS ONLY
- 11) TRIPLE INBOARDS ONLY
- 12) ALL ON
- 13) SWEEP (TRAILING ARROW / ALTERNATING L-R)

**SIDE WARNING LAMP PATTERNS (LAMPS DFC, DA, DRC (LEFT) AND PFC, PA, PRC (RIGHT)):**

- 1) OFF
- 2) ALTERNATING LEFT / RIGHT, REAR SIDE LAMPS ONLY
- 3) ALTERNATING LEFT / RIGHT, FRONT SIDE LAMPS ONLY
- 4) ALTERNATING FRONT / REAR, BOTH SIDES CONCURRENTLY
- 5) ALTERNATING LEFT / RIGHT, FRONT / REAR LAMPS CONCURRENTLY

**Note:** All patterns can be programmed to operate with or without flashing ALLEYS (and White Corners).

**WARNING FLASH RATES:**

- 1) SINGLE FLASH (75 FPM)
- 2) DOUBLE FLASH (110 FPM)
- 3) NEOBE® FLASH (64 FPM)
- 4) SCROLL FLASH WARNING PATTERNS (4 SECONDS EACH OF ALL RATES)

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

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**REAR TRAFFIC DIRECTION LAMP PATTERNS (LAMPS DR4 - DR1, RC, PR1 - PR4):**

- 1) 9 ELEMENT FILL ARROW
- 2) 9 ELEMENT TRAIL ARROW
- 3) 7 ELEMENT FILL ARROW
- 4) 7 ELEMENT TRAIL ARROW

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

**TRAFFIC DIRECTION FLASH RATES:**

- 1) SINGLE FLASH
- 2) DOUBLE FLASH
- 3) NEOBE® FLASH
- 4) SCROLL FLASH WARNING 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 at different flash rates in each mode.