# TOMAR Instruction Manual



975L-4007 Scorpion Half-Bar

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# TOMAR

975L-4007 Wiring				
	RED	+12Vdc		
	BLACK	Ground		
	ORANGE	Warning Mode 1		
	BLUE	Warning Mode 2		
	ORANGE & BLUE	Warning Mode 3		
	RED/WHITE	Right Arrow Mode		
	BROWN/WHITE	Left Arrow Mode		
	<b>RED/WHITE &amp; BROWN/WHITE</b>	Center Out Arrow Mode		
	BROWN	Scene Lights (if equipped)		
	GREEN	Intensity Control		

# **Programming Instructions**

# Entering Warning Programming Mode:

Three unique warning patterns can be selected using the ORANGE and BLUE mode selection wires.

ORANGE WIRE = Warning Mode 1 BLUE WIRE = Warning Mode 2 ORANGE & BLUE WIRES = Warning Mode 3

To activate the Warning programming mode, connect the BLACK wire to Ground then simultaneously attach the GREEN wire, the RED wire and the mode selection wire(s) for the mode you want to program to +12Vdc.

### Changing Warning Patterns and Flash Rates:

To change the Warning pattern, enter the Warning programming mode as described above, including selecting a mode. Tap the RED/WHITE wire to +12Vdc to advance the flash pattern. See the list of available Warning flash patterns below.

A unique flash rate can be assigned to each Warning mode. To change the flash rate, enter the Warning programming mode as described above, including selecting a mode. Move the GREEN wire from +12Vdc to Ground. Tap the BROWN/WHITE wire to +12Vdc to advance the flash rate. See the list of available flash rates below.

# **Entering Traffic Direction Programming Mode:**

To activate the Traffic Direction programming mode connect the BLACK wire to Ground then simultaneously attach the GREEN wire, RED/WHITE wire and the RED wire to +12Vdc.

#### **Changing Traffic Direction Patterns and Flash Rates:**

To change the Traffic Direction pattern, enter the Traffic Direction programming mode as described above. Tap the BROWN wire to +12Vdc to advance the flash pattern. See the list of available Traffic Direction patterns below.

A unique flash rate can be assigned to the Traffic Direction mode. To change the flash rate, enter the Traffic Direction programming mode as described above. Move the GREEN wire from +12Vdc to Ground. Tap the BROWN wire to +12Vdc to advance the flash rate. See the list of available flash rates below.

#### Flash Rates, Warning Modes:

	· · · · · · · · · · · · · · · · · · ·			
1)	SINGLE FLASH	312 FPM		
2)	DOUBLE FLASH	117 FPM	**	
3)	NEOBE FLASH	77 FPM	**	
4)	SINGLE 75 FLASH	75 FPM	**	
5)	SCROLL FLASH A			switches between the Single, Double and Neobe flash rates, every 4 seconds
6)	SCROLL FLASH B		**	switches between the Single 75, Double and Neobe flash rates, every 4 seconds.

#### Flash Patterns, Warning Modes - Models 4007-01, 4007-C01, 4007-C01P

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1)	OFF		
2)	COMBINATION A (Patterns 6,5,7,5 repeat)		ORANGE Wire (Warning Mode 1) DEFAULT, SCROLL FLASH A
3)	COMBINATION B (Patterns 6,5,4,5 repeat)	**	
4)	INBOARD OUTBOARD	**	BLUE Wire (Warning Mode 2) DEFAULT, SCROLL FLASH A
5)	LEFT RIGHT	**	ORANGE & BLUE Wires (Warning Mode 3) DEFAULT, SCROLL FLASH A
6)	ALTERNATE	**	
7)	RANDOM		
8)	SINGLE OUTBOARD	**	
9)	DOUBLE OUTBOARD	**	
10)	SINGLE INBOARD	**	
11)	DOUBLE INBOARD	**	
12)	TRIPLE INBOARD	**	
13)	SWEEP		

\*\* = CA Title 13 compliant

#### Flash Patterns, Warning Modes - Models 4007-01P

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- 1) OFF
- 2) COMBINATION A (Patterns 6,5,7,5 repeat)
- 3) COMBINATION B (Patterns 6,5,4,5 repeat) \*\*
- 4) INBOARD OUTBOARD
- 5) LEFT RIGHT
- 6) ALTERNATE
- 7) RANDOM
- 8) SINGLE OUTBOARD
- 9) DOUBLE OUTBOARD
- 10) SINGLE INBOARD \*\*
- 11) DOUBLE INBOARD
- 12) SWEEP

#### Flash Patterns, Warning Modes - Models 4007-02

1) OFF 2) COMBINATION A (Patterns 8,7,9,7 repeat) WITH SL's ORANGE Wire (Warning Mode 1) DEFAULT, SCROLL FLASH A 3) COMBINATION B (Patterns 17, 16, 18, 16 repeat) WITHOUT SL's BLUE Wire (Warning Mode 2) DEFAULT, SCROLL FLASH A 4) COMBINATION C (Patterns 8,7,6,7 repeat) WITH SL's \*\* 5) COMBINATION D (Patterns 17,16,15,16 repeat) WITHOUT SL's \*\* 6) INBOARD OUTBOARD WITH SL's \*\* 7) LEFT RIGHT WITH SL's \*\* ORANGE & BLUE Wires (Warning Mode 3) DEFAULT, SCROLL FLASH A 8) ALTERNATE \*\* WITH SL's 9) RANDOM WITH SL's 10) SINGLE OUTBOARD WITHOUT SL's \*\* 11) DOUBLE OUTBOARD WITHOUT SL's \*\* 12) SINGLE INBOARD WITHOUT SL's \*\* 13) DOUBLE INBOARD WITHOUT SL's \*\* 14) SWEEP WITH SL's 15) INBOARD OUTBOARD WITHOUT SL's \*\* 16) LEFT RIGHT WITHOUT SL's \*\* 17) ALTERNATE WITHOUT SL's \*\* 18) RANDOM WITHOUT SL's

WITHOUT SL's

19) SWEEP

\*\* = CA Title 13 compliant

ORANGE Wire (Warning Mode 1) DEFAULT, SCROLL FLASH A

BLUE Wire (Warning Mode 2) DEFAULT, SCROLL FLASH A ORANGE & BLUE Wires (Warning Mode 3) DEFAULT, SCROLL FLASH ~

# Flash Patterns, Warning Modes - Models 4007-C02

1)	OFF			
2)	COMBINATION A (Patterns 8,7,9,7 repeat)	WITH SL's		ORANGE Wire (Warning Mode 1) DEFAULT, SCROLL FLASH A
3)	COMBINATION B (Patterns 18,17,19,17 repeat)	WITHOUT SL's		BLUE Wire (Warning Mode 2) DEFAULT, SCROLL FLASH A
4)	COMBINATION C (Patterns 8,7,6,7 repeat)	WITH SL's	**	
5)	COMBINATION D (Patterns 18, 17, 16, 17 repeat)	WITHOUT SL's	**	
6)	INBOARD OUTBOARD	WITH SL's	**	
7)	LEFT RIGHT	WITH SL's	**	ORANGE & BLUE Wires (Warning Mode 3) DEFAULT, SCROLL FLASH A
8)	ALTERNATE	WITH SL's	**	
9)	RANDOM	WITH SL's		
10)	SINGLE OUTBOARD	WITHOUT SL's	**	
11)	DOUBLE OUTBOARD	WITHOUT SL's	**	
12)	SINGLE INBOARD	WITHOUT SL's	**	
13)	DOUBLE INBOARD	WITHOUT SL's	**	
14)	TRIPLE INBOARD	WITHOUT SL's	**	
15)	SWEEP	WITH SL's		
16)	INBOARD OUTBOARD	WITHOUT SL's	**	
17)	LEFT RIGHT	WITHOUT SL's	**	
18)	ALTERNATE	WITHOUT SL's	**	
19)	RANDOM	WITHOUT SL's		
20)	SWEEP	WITHOUT SL's		

\*\* = CA Title 13 compliant

#### Flash Rates, Traffic Direction Modes:

- 1) SINGLE FLASH 96 FPM \*\*
- 2) DOUBLE FLASH 125 FPM
- 3) NEOBE FLASH
- 4) SINGLE 75 FLASH 75 FPM \*\*
- 5) SCROLL FLASH A switches between the Single, Double and Neobe flash rates, every two cycles of a pattern.
- 6) SCROLL FLASH B switches between the Single 75, Double and Neobe flash rates, every two cycles of a pattern.

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#### Flash Patterns, Traffic Direction Modes - Model 4007-01, 4007-C01

96 FPM \*\*

1) FULL 7 LED ARROW FILL RED/WHITE and/or BRN/WHITE Wires (all Arrow Modes) DEFAULT, SINGLE FLASH

RED/WHITE and/or BRN/WHITE Wires (all Arrow Modes) DEFAULT, SINGLE FLASH

- 2) FULL 7 LED ARROW TRAIL
- 3) REDUCED 5 LED ARROW FILL
- 4) REDUCED 5 LED ARROW TRAIL
- 5) REDUCED 5 LED ARROW FILL with 2 Warning (SINGLE OUTBOARD) ALTERNATE
- 6) REDUCED 5 LED ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) ALTERNATE
- 7) REDUCED 5 LED ARROW FILL with 2 Warning (SINGLE OUTBOARD) SIMULTANEOUSLY
- 8) REDUCED 5 LED ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) SIMULTANEOUSLY
- 9) REDUCED 5 LED ARROW FILL with 2 Warning (SINGLE OUTBOARD) STEADY
- 10) REDUCED 5 LED ARROW TRAIL with 2 Warning (SINGLE OUTBOARD) STEADY
- 11) REDUCED 5 LED ARROW FILL with 2 Steady (SINGLE OUTBOARD)
- 12) REDUCED 5 LED ARROW TRAIL with 2 Steady (SINGLE OUTBOARD)

#### Flash Patterns, Traffic Direction Modes - Models 4007-01P, 4007-02, 4007-C01P, 4007-C02

- 1) FULL 6 LED ARROW FILL
- 2) FULL 6 LED ARROW TRAIL