

951 SERIES FLASH PATTERN SELECTION INSTRUCTION MANUAL

SUPPLEMENT TO MANUALS T52126 AND T51568



21TR-MC® and Solex-MC® Lightbars ***FLASH PATTERN SELECTION INSTRUCTIONS***

CONTENTS:

Warning Signal Modules.....	2-5
ArrowStik® Modules.....	6
Takedown and Alley Light Modules.....	7
Secondary Takedown and Alley Light Modules.....	8-10
Rear Upper / End Flash Modules.....	11
Warranty.....	12

For future reference record your product's serial no. here: _____

IMPORTANT: *Read all instruction and warnings before installing and using.*
INSTALLER: *This manual must be delivered to the end user of this equipment.*

Warning Signal Modules:

Selecting Flash Patterns:

There are seven possible 3-Level modes of operation (see Table 1). These modes are activated by combinations of the L1 (GRN/BLK), L2 (WHT/BLK) and L3 (RED/BLK) wires. For example a standard progressive switch will use the Level-1 (L1), Level-2 (L1 + L2) and Level-3 (L1 + L2 + L3) modes. When using individual switches, make sure to select patterns for all possible switch combinations. Each of the 3-Level modes of operation can individually flash up to 10 pairs of lighthoods. Each pair of lighthoods is programmed with a different wire in the 16 conductor cable (see Table 2).

NOTE: The 951 Series Software can operate a light bar with Multi-Color lighthoods in three zones (Rear, Front or Corners). If any of the lighthoods in a zone are Multi-Color, then that entire zone is considered a Multi-Color Zone and all 49 flash patterns will be available. If there are no Multi-Color lighthoods in a zone, then that zone is considered a Single Color Zone and only flash patterns 1 through 13 will be available.

In addition, if the lightbar contains Multi-Color takedown or alley lighthoods, these heads can be programmed with the same 49 flash patterns as the other Multi-Color lighthoods. If the lightbar contains Single Color takedown or alley lighthoods, these heads can be programmed with flash patterns 1 through 13.

The flash patterns are divided into four groups. The first group is the 'Standard Flash Patterns' and is available in both Multi-Color and Single Color Zones (1 through 13). The next three groups are only available to zones that are configured as Multi-Color Zones. The second group is the 'Primary Only Patterns' (14 through 25). The third group is the 'Secondary Only Patterns' (26 through 37). The last group is 'Primary to the Driver's Side and Secondary to the Passenger's Side Patterns' (38 through 49). Primary and Secondary refer to the two colors that are in a Multi-Color lighthood. See Table 3 to determine which color is considered Primary or Secondary in each type of lighthood.

The flash patterns in the first group (1 through 13) will automatically adjust to operate the lighthoods for the Multi-Color and Single Color zones. It is possible to have Multi-Color and Single Color lighthoods in the same zone. If the light bar is configured this way, then please note that all flash patterns will be available to the Single Color lighthoods, but these lighthoods may not flash in an effective way in all flash patterns. The best flash patterns to use for a Single Color lighthood in a Multi-Color zone are the 'Primary Only Patterns' (14 through 25).

STEP 1:

Power-up the light bar. Select the desired 3-Level mode to program by applying +power to the appropriate wire in the 16 conductor cable (see Table 1).

STEP 2:

Continue applying +power to the wire(s) from Step 1. Enter Pattern Selection Mode by applying +power to the BLK/RED wire in the 16 conductor cable.

NOTE: The BLK/RED wire must be connected to +power during Pattern Selection Mode and must be removed from +power when pattern selection is completed. Failure to remove the BLK/RED wire from +power will effect the normal operation of the light bar.

STEP 3:

Continue applying power to the BLK/RED wire and the wire(s) from Step 1. Refer to Table 5A and Table 5B for the available flash patterns.

To increment to the next pattern, momentarily hold the appropriate pattern selection wire (see Table 2) to +power for less than two seconds and then release. The four corner light heads will turn on steady to indicate that the pattern has been incremented.

To decrement to the previous pattern, momentarily hold the appropriate pattern selection wire (see Table 2) to +power for two to four seconds and then release. The four corner light heads will turn on steady and then turn off to indicate that the pattern has been decremented.

After the pattern selection wire has been released, the new pattern will begin to flash and is automatically stored each time. Repeat this step for each pair of heads using the appropriate pattern selection wire (see Table 2).

NOTE: To restore the Factory Default Emergency Warning Flash Pattern to any pair of lighthoods, hold the appropriate pattern selection wire to +power for more than four seconds. The four corner light heads will turn on steady, turn off and then turn on steady again to indicate that the Factory Default Emergency Warning Flash Pattern has been restored. The factory defaults for a progressive switch application (Level-1, Level-2 and Level-3) are identified in Table 4.

STEP 4:

Repeat steps 1 through 3 for each of the seven possible 3-Level modes as desired.

TABLE 1: 3-LEVEL MODES OF OPERATION	
MODE NUMBER	WIRES ACTIVATED
L1	GRN/BLK (LEVEL-1)
L2	WHT/BLK
L1 + L2	GRN/BLK & WHT/BLK (LEVEL-2)
L3	RED/BLK
L1 + L3	GRN/BLK & RED/BLK
L2 + L3	WHT/BLK & RED/BLK
L1 + L2 + L3	GRN/BLK, WHT/BLK, & RED/BLK (LEVEL-3)

TABLE 2: PATTERN SELECTION WIRES	
WIRE COLOR	PAIR OF HEADS CONTROLLED
GRN/WHT	FRONT OUTBOARD
BLU/BLK	FRONT INBOARD
GRN	FRONT CORNER
BLK/WHT	REAR OUTBOARD
RED/WHT	REAR INBOARD
BLU/WHT	REAR CENTER
BLU	REAR CORNER
BLK	REAR UPPER / END FLASH
WHT	MULTI-COLOR ALLEY
ORG/BLK	MULTI-COLOR TAKEDOWN

TABLE 3: PRIMARY/SECONDARY LAMP COLORS		
MULTI-COLOR LAMPS	PRIMARY COLOR	SECONDARY COLOR
RED/BLUE	RED	BLUE
RED/AMBER	RED	AMBER
RED/WHITE	RED	WHITE
BLUE/AMBER	BLUE	AMBER
BLUE/WHITE	BLUE	WHITE
AMBER/WHITE	AMBER	WHITE

TABLE 4: FACTORY DEFAULT EMERGENCY WARNING FLASH PATTERNS (PROGRESSIVE SWITCH)			
LAMP POSITION	LEVEL-1 DEFAULT	LEVEL-2 DEFAULT	LEVEL-3 DEFAULT
FRONT OUTBOARD	NULL FLASH (13)	FAST QUAD (1)	CYCLE FLASH (12)
FRONT INBOARD	NULL FLASH (13)	FAST QUAD (1)	CYCLE FLASH (12)
FRONT CORNER	NULL FLASH (13)	FAST QUAD (1)	CYCLE FLASH (12)
REAR OUTBOARD	FAST QUAD (1)	FAST QUAD (1)	CYCLE FLASH (12)
REAR INBOARD	FAST QUAD (1)	FAST QUAD (1)	CYCLE FLASH (12)
REAR CENTER	FAST QUAD (1)	FAST QUAD (1)	CYCLE FLASH (12)
REAR CORNER	FAST QUAD (1)	FAST QUAD (1)	CYCLE FLASH (12)
REAR UPPER / END FLASH	FAST QUAD (1)	FAST QUAD (1)	CYCLE FLASH (12)
MULTI-COLOR ALLEY	FAST QUAD (1)	FAST QUAD (1)	CYCLE FLASH (12)

TABLE 5A: EMERGENCY WARNING FLASH PATTERNS	
STANDARD FLASH PATTERNS	
PATTERN NUMBER	PATTERN DESCRIPTION
1	FAST QUAD 80FPM
2	SLOW QUAD 60FPM
3	FAST SINGLE 375FPM
4	MEDIUM SINGLE 115FPM
5	SLOW SINGLE 60FPM
6	FAST DOUBLE 115FPM
7	SLOW DOUBLE 60FPM
8	FAST SIX 80FPM
9	SLOW SIX 60FPM
10	VARIABLE RATE SINGLE
11	NFPA QUAD 75FPM
12	CYCLE FLASH
13	NULL FLASH (OFF)
PRIMARY ONLY PATTERNS	
PATTERN NUMBER	PATTERN DESCRIPTION
14	FAST QUAD 80FPM
15	SLOW QUAD 60FPM
16	FAST SINGLE 375FPM
17	MEDIUM SINGLE 115FPM
18	SLOW SINGLE 60FPM
19	FAST DOUBLE 115FPM
20	SLOW DOUBLE 60FPM
21	FAST SIX 80FPM
22	SLOW SIX 60FPM
23	VARIABLE RATE SINGLE
24	NFPA QUAD 75FPM
25	CYCLE FLASH

TABLE 5B: EMERGENCY WARNING FLASH PATTERNS (CONTINUED)**SECONDARY ONLY PATTERNS**

PATTERN NUMBER	PATTERN DESCRIPTION
26	FAST QUAD 80FPM
27	SLOW QUAD 60FPM
28	FAST SINGLE 375FPM
29	MEDIUM SINGLE 115FPM
30	SLOW SINGLE 60FPM
31	FAST DOUBLE 115FPM
32	SLOW DOUBLE 60FPM
33	FAST SIX 80FPM
34	SLOW SIX 60FPM
35	VARIABLE RATE SINGLE
36	NFPA QUAD 75FPM
37	CYCLE FLASH

PRIMARY DRIVER'S SIDE / SECONDARY PASSENGER'S SIDE PATTERNS

PATTERN NUMBER	PATTERN DESCRIPTION
38	FAST QUAD 80FPM
39	SLOW QUAD 60FPM
40	FAST SINGLE 375FPM
41	MEDIUM SINGLE 115FPM
42	SLOW SINGLE 60FPM
43	FAST DOUBLE 115FPM
44	SLOW DOUBLE 60FPM
45	FAST SIX 80FPM
46	SLOW SIX 60FPM
47	VARIABLE RATE SINGLE
48	NFPA QUAD 75FPM
49	CYCLE FLASH

ArrowStik® Modules:

Selecting the ArrowStik® Pattern:

The Central Controller is designed to offer user selectable traffic directing and traffic warning flash patterns. Each of the ArrowStik functions (LEFT, CENTER-OUT, RIGHT or FLASH) can be programmed individually for unique patterns and flash rates. This allows the greatest flexibility when controlling the various light bar configurations available. The light bar will come from the factory with the Building pattern as the default for LEFT, CENTER-OUT and RIGHT. The default pattern for FLASH is the Standard Flash. If it is desired to change the pattern for any of the functions, follow the programming procedure below.

STEP 1:

Power-up the light bar. Apply +power to the appropriate wire for the ArrowStik function that you wish to program (LEFT - RED, CENTER-OUT - RED and ORG, RIGHT - ORG or FLASH - WHT). **Programming will not work if more than one function is selected at a time.**

STEP 2:

Continue applying power to the wire from Step 1. Refer to Table 6 for the available flash patterns.

To increment to the next pattern, momentarily hold the BLK/RED wire to +power for less than two seconds and then release. The four corner light heads will turn on steady to indicate that the pattern has been incremented.

To decrement to the previous pattern, momentarily hold the BLK/RED wire to +power for two to four seconds and then release. The four corner light heads will turn on steady and then turn off to indicate that the pattern has been decremented.

After the pattern selection wire has been released, the new pattern will begin to flash and is automatically stored each time.

Notice that for the LEFT, CENTER-OUT and RIGHT functions there are four pattern choices (Building, Building with 3 Flash, Traveling Ball with 3 flash, and Build/Collapse) and three speeds (Fast, Medium and Slow). There are a total of twelve possible selections for each function and then you return to the top selection.

For the FLASH function there are nine traffic warning patterns available. Flash patterns marked with an asterisk "*" can be selected in Fast, Medium or Slow flash rate.

NOTE: To restore the Factory Default ArrowStik Flash Pattern for any traffic direction mode, hold the BLK/RED wire to +power for more than four seconds. The four corner light heads will turn on steady, turn off and then turn on steady again to indicate that the Factory Default ArrowStik Flash Pattern has been restored. Only the traffic direction mode that is activated will be restored.

STEP 3:

Repeat steps 1 through 2 for the other ArrowStik functions as desired.

TABLE 6: TRAFFIC DIRECTING / TRAFFIC WARNING FLASH PATTERNS				
Mode	LEFT	CENTER-OUT	RIGHT	FLASH
1	Building	Building	Building	Standard Flash*
2	Building, 3 Flash	Building, 3 Flash	Building, 3 Flash	Quad Flash Standard
3	Traveling Ball, 3 Flash	Traveling Ball, 3 Flash	Traveling Ball, 3 Flash	Simultaneous Flash*
4	Build/Collapse	Build/Collapse	Build/Collapse	Quad Flash Simultaneous
5				Even/Odd Flash*
6				Quad Flash Even/Odd
7				Left/Right Flash*
8				Quad Flash Left/Right
9				Traveling Ball Flash*
	All Patterns have a fast, medium, or slow speed.	All Patterns have a fast, medium, or slow speed.	All Patterns have a fast, medium, or slow speed.	Patterns with the * have a fast, medium, or slow speed.

Take Down and Alley Light Modules:

Selecting Flash Patterns:

The Take Down and Alley Lights can be programmed to flash at different rates.

Note: The white color for Multi-Color Take Down and Alley lighthoods may also be programmed as noted below.

STEP 1:

Power-up the light bar. Select the Take Down Flash Mode (BLK) or the Alley Flash Mode (BLU/WHT) by applying +power to the appropriate wire. **Programming will not work if more than one function is selected at a time.**

STEP 2:

Continue applying power to the wire from Step 1. Refer to Table 7 for the available flash patterns.

To increment to the next pattern, momentarily hold the BLK/RED wire to +power for less than two seconds and then release. The four corner light heads will turn on steady to indicate that the pattern has been incremented.

To decrement to the previous pattern, momentarily hold the BLK/RED wire to +power for two to four seconds and then release. The four corner light heads will turn on steady and then turn off to indicate that the pattern has been decremented.

After the pattern selection wire has been released, the new pattern will begin to flash and is automatically stored each time.

NOTE: To restore the Factory Default Take Down or Alley Flash Pattern, hold the BLK/RED wire to +power for more than four seconds. The four corner light heads will turn on steady, turn off and then turn on steady again to indicate that the Factory Default Take Down or Alley Flash Pattern has been restored. The default flash pattern for Take Down and Alley Lights is Medium Single 115FPM.

STEP 3:

Repeat steps 1 through 2 for the Take Down Flash Mode or the Alley Flash Mode as desired.

TABLE 7: TAKE DOWN AND ALLEY FLASH PATTERNS	
PATTERN NUMBER	PATTERN DESCRIPTION
1	FAST QUAD 80FPM
2	SLOW QUAD 60FPM
3	FAST SINGLE 375FPM
4	MEDIUM SINGLE 115FPM
5	SLOW SINGLE 60FPM
6	FAST DOUBLE 115FPM
7	SLOW DOUBLE 60FPM
8	FAST SIX 80FPM
9	SLOW SIX 60FPM
10	VARIABLE RATE SINGLE
11	NFPA QUAD 75FPM
12	CYCLE FLASH

Secondary Take Down And Alley Light Modules:

Selecting Secondary Take Down and Alley Light Functions:

If the light bar is configured with **Multi-Color lighthoods in the Front:**

The Front Cut wire (GRN/WHT) can be configured to activate the Front Multi-Color lighthoods as a Second Take Down mode (see Table 8).

The Take Down wire (ORG/BLK) may also be configured to activate the Front Multi-Color light heads as a Third Take Down mode (see Table 11).

If the light bar is configured with **Multi-Color lighthoods in the Corners:**

The Rear Cut wire (BLU/BLK) can be configured to operate Second Right Alley mode (see Table 9).

The Right Alley wire (RED/WHT) can be configured to operate Third Right Alley mode (see Table 12).

The Cruise wire (GRN) can be configured to operate Second Left Alley Light mode (see Table 10).

The Left Alley wire (BLK/WHT) can be configured to operate Third Left Alley Light mode (see Table 13).

Other programmable functions include:

The Rear Cut wire (BLUE/BLK) can be configured for multiple Rear Work Light functions (see Table 9 for work light options).

The Cruise wire (GRN) can be configured for multiple Cruise functions (see Table 10 for cruise options).

NOTE: If the Front Cut wire (GRN/WHT) is configured to activate the Front Multi-Color lighthoods as Secondary Take Downs, the standard Front Cut function will be disabled. If the Rear Cut wire (BLU/BLK) is configured to activate the Corner Multi-Color lighthoods as Secondary Alley Lights, the standard Rear Cut function will be disabled. If the Cruise wire (BLU/BLK) is configured to activate the Corner Multi-Color lighthoods as Secondary Alley Lights, the standard Cruise function will be disabled.

STEP 1:

Power up the light bar. Select one of the following:

For second mode; Front Cut function (GRN/WHT) or the Rear Cut function (BLU/BLK) or the Cruise function (GRN) by applying +power to the appropriate wire. **Programming will not work if more than one function is selected at a time.**

For third mode; Take Down function (ORG/BLK) or the Right Alley function (RED/WHT) or the Left Alley function (BLK/WHT) by applying +power to the appropriate wire. **Programming will not work if more than one function is selected at a time.**

NOTE: If the Front Cut wire (GRN/WHT) is configured for the Front Cut function, no lighthoods will be activated when +power is applied to the GRN/WHT wire. If the Rear Cut wire (BLU/BLK) is configured for the Rear Cut function, no lighthoods will be activated when +power is applied to the BLU/BLK wire.

STEP 2:

Continue applying power to the wire from Step 1. Refer to Table 8 for the available Front Cut functions, Table 9 for the available Rear Cut Functions, Table 10 for the available Cruise Light functions, Table 11 for Take Down functions, Table 12 for Right Alley functions, or Table 13 for Left Alley functions.

To increment to the next function, momentarily hold the BLK/RED wire to +power for less than two seconds and then release. The four corner light heads will turn on steady to indicate that the function has been incremented.

To decrement to the previous function, momentarily hold the BLK/RED wire to +power for two to four seconds and then release. The four corner light heads will turn on steady and then turn off to indicate that the function has been decremented.

After the BLK/RED wire has been released, the new function will begin to operate and is automatically stored each time.

NOTE: To restore the Factory Default Secondary Take Down and Alley Light Functions, hold the BLK/RED wire to +power for more than four seconds. The four corner light heads will turn on steady, turn off and then turn on steady again to indicate that the Factory Default Secondary Take Down and Alley Light Functions have been restored. The default function for the Front Cut, Rear Cut, Cruise, Take Down, Right Alley, and Left Alley wires is function number 1 as shown in Tables 8, 9, 10, 11, 12, and 13. Only the function that is activated will be restored.

STEP 3:

Repeat steps 1 through 2 for the Front Cut function, Rear Cut function, Cruise function, Take Down, Right Alley, and Left Alley as desired.

TABLE 8: FRONT CUT (GRN/WHT) FUNCTIONS	
FUNCTION NUMBER	FUNCTION DESCRIPTION
1	STANDARD FRONT CUT FUNCTION
2	WHITE FRONT OUTBOARD LIGHTHEADS**
3	WHITE FRONT INBOARD LIGHTHEADS**
4	WHITE ALL FRONT LIGHTHEADS**
5	WHITE FRONT OUTBOARDS AND CORNER LIGHTHEADS**
6	WHITE FRONT INBOARDS AND CORNER LIGHTHEADS**
7	WHITE ALL FRONT AND CORNER LIGHTHEADS**
8	RED/BLUE OUTBOARD LIGHTHEADS*
9	RED/BLUE INBOARD LIGHTHEADS*
10	RED/BLUE ALL FRONT LIGHTHEADS*
11	RED/BLUE OUTBOARD AND CORNER LIGHTHEADS*
12	RED/BLUE INBOARD AND CORNER LIGHTHEADS*
13	RED/BLUE ALL FRONT AND CORNER LIGHTHEADS*

TABLE 9: REAR CUT (BLU/BLK) FUNCTIONS	
FUNCTION NUMBER	FUNCTION DESCRIPTION
1	STANDARD REAR CUT FUNCTION
2	WHITE FRONT RIGHT CORNER LIGHTHEAD**
3	WHITE REAR RIGHT CORNER LIGHTHEAD**
4	RED/BLUE FRONT RIGHT CORNER LIGHTHEAD*
5	RED/BLUE REAR RIGHT CORNER LIGHTHEAD*
6	WHITE REAR OUTBOARD LIGHTHEADS**
7	WHITE REAR INBOARD LIGHTHEADS**
8	WHITE REAR CENTER LIGHTHEADS**
9	WHITE REAR INBOARD AND CENTER LIGHTHEADS**
10	WHITE REAR UPPER LIGHTHEADS**
11	WHITE REAR ALL LIGHTHEADS**
12	WHITE REAR OUTBOARD AND CORNER LIGHTHEADS**
13	WHITE REAR INBOARD AND CORNER LIGHTHEADS**
14	WHITE REAR CENTER AND CORNER LIGHTHEADS**
15	WHITE REAR UPPER AND CORNER LIGHTHEADS**
16	WHITE REAR ALL AND CORNER LIGHTHEADS**

TABLE 10: CRUISE FUNCTIONS	
FUNCTION NUMBER	FUNCTION DESCRIPTION
1	CRUISE PRIMARY LAMPS ONLY
2	CRUISE SECONDARY LAMPS ONLY
3	CRUISE PRIMARY DRIVER'S SIDE / SECONDARY PASSENGER'S SIDE
4	FLICKER ALL CRUISE PRIMARY LAMPS ONLY
5	FLICKER ALL CRUISE SECONDARY LAMPS ONLY
6	FLICKER ALL CRUISE PRIMARY DRVR'S SIDE / SECONDARY PASSGR'S SIDE
7	WHITE LEFT FRONT CORNER LIGHTHEAD**
8	WHITE LEFT REAR CORNER LIGHTHEAD**
9	RED/BLUE LEFT FRONT CORNER LIGHTHEAD*
10	RED/BLUE LEFT REAR CORNER LIGHTHEAD*

TABLE 11: TAKE DOWN (ORG/BLK) FUNCTIONS	
FUNCTION NUMBER	FUNCTION DESCRIPTION
1	STANDARD TAKE DOWN FUNCTION
2	TAKE DOWN AND WHITE FRONT OUTBOARD LIGHTHEADS**
3	TAKE DOWN AND WHITE FRONT INBOARD LIGHTHEADS**
4	TAKE DOWN AND WHITE ALL FRONT LIGHTHEADS**
5	TAKE DOWN AND WHITE FRONT OUTBOARDS AND CORNER LIGHTHEADS**
6	TAKE DOWN AND WHITE FRONT INBOARDS AND CORNER LIGHTHEADS**
7	TAKE DOWN AND WHITE ALL FRONT AND CORNER LIGHTHEADS**
8	TAKE DOWN AND RED/BLUE OUTBOARD LIGHTHEADS*
9	TAKE DOWN AND RED/BLUE INBOARD LIGHTHEADS*
10	TAKE DOWN AND RED/BLUE ALL FRONT LIGHTHEADS*
11	TAKE DOWN AND RED/BLUE FRONT OUTBOARD AND CORNER LIGHTHEADS*
12	TAKE DOWN AND RED/BLUE FRONT INBOARD AND CORNER LIGHTHEADS*
13	TAKE DOWN AND RED/BLUE ALL FRONT AND CORNER LIGHTHEADS*

TABLE 12: RIGHT ALLEY (RED/WHT) FUNCTIONS	
FUNCTION NUMBER	FUNCTION DESCRIPTION
1	STANDARD RIGHT ALLEY FUNCTION
2	RIGHT ALLEY AND WHITE FRONT RIGHT CORNER LIGHTHEAD**
3	RIGHT ALLEY AND WHITE REAR RIGHT CORNER LIGHTHEAD**
4	RIGHT ALLEY AND RED/BLUE FRONT RIGHT CORNER LIGHTHEAD*
5	RIGHT ALLEY AND RED/BLUE REAR RIGHT CORNER LIGHTHEAD*

TABLE 13: LEFT ALLEY (BLK/WHT) FUNCTIONS	
FUNCTION NUMBER	FUNCTION DESCRIPTION
1	STANDARD LEFT ALLEY FUNCTION
4	LEFT ALLEY AND WHITE FRONT LEFT CORNER LIGHTHEAD**
5	LEFT ALLEY AND WHITE REAR LEFT CORNER LIGHTHEAD**
6	LEFT ALLEY AND RED/BLUE FRONT LEFT CORNER LIGHTHEAD*
7	LEFT ALLEY AND RED/BLUE REAR LEFT CORNER LIGHTHEAD*

*RED/BLUE Functions will activate both colors in the Multi-Color lighthead and are designed for use in RED/BLUE light-heads only. When the RED/BLUE lightheads are activated together the colors will blend creating the effect of a WHITE lighthead when veiwed from a distance.

**WHITE ONLY Functions will activate only the secondary color in the Multi-Color lighthead and are designed for use in RED/WHITE, BLUE/WHITE and AMBER/WHITE lightheads only.

Rear Upper / End Flash Modules:

Selecting the Rear Upper / End Flash Pattern:

The Central Controller is designed to offer user selectable Rear Upper (Solex) or End Flash (21TR) flash patterns. This feature allows the Rear Upper or End Flash lamps to Alternate whenever any of the ArrowStik functions (LEFT, CENTER-OUT, RIGHT or FLASH) are activated. The light bar will come from the factory with the Rear Upper / End Flash feature in the Off pattern. If it is desired to change the pattern, follow the programming procedure below.

STEP 1:

Power-up the light bar. Apply +power to one of the ArrowStik functions (LEFT - RED, CENTER-OUT - RED and ORG or RIGHT - ORG). **Programming will not work if more than one function is selected at a time.**

STEP 2:

Continue applying power to the wire from Step 1. Refer to Table 14 for the available flash patterns.

To increment to the next pattern, momentarily hold the BLK and BLK/RED wires to +power for less than two seconds and then release. The four corner light heads will turn on steady to indicate that the pattern has been incremented.

To decrement to the previous pattern, momentarily hold the BLK and BLK/RED wires to +power for two to four seconds and then release. The four corner light heads will turn on steady and then turn off to indicate that the pattern has been decremented.

After the pattern selection wires have been released, the new pattern will begin to flash and is automatically stored each time.

NOTE: To restore the Factory Default Rear Upper / End Flash Pattern, hold the BLK and BLK/RED wires to +power for more than four seconds. The four corner light heads will turn on steady, turn off and then turn on steady again to indicate that the Factory Default Pattern has been restored. Selecting the Rear Upper / End Flash Pattern for one ArrowStik function will select this pattern for all ArrowStik functions.

TABLE 14: REAR UPPER / END FLASH PATTERNS		
PATTERN NUMBER	MULTI-COLOR LAMPS	SINGLE COLOR LAMPS
1	Off	Off
2	Alternating Multi-Color	Alternating
3	Alternating Primary Only	
4	Alternating Secondary Only	

WARRANTY

Code 3®, Inc.'s emergency devices with Torus® Technology are tested and found to be operational at the time of manufacture. Provided this product is installed and operated in accordance with the manufacturer's recommendations, Code 3, Inc. warrants all parts and components (with the exception of all incandescent and halogen bulbs) of the product to be free of defects in material and workmanship for a period of one (1) year and Torus light heads for a period of five (5) years from the date of purchase. This Warranty excludes normal wear & tear. Units demonstrated to be defective within the warranty period will be repaired or replaced at the factory service center at no cost. Code 3, Inc. will return the repaired product with transportation cost prepaid. Code 3, Inc. assumes no liability for expenses incurred in the packaging, handling, and shipping of the product to the Factory Technical Service Department for repair. For in-warranty product return authorization, questions regarding product warranty coverage or questions regarding out-of-warranty repair quotes, contact the Factory Technical Service Department.

This Warranty is void if, in the judgment of Code 3, Inc. (1) an attempt has been made to repair the light head, and/or (2) the product has been used with inappropriate or inadequate wiring or circuit protection, and/or (3) the product has failed as a result of abuse or unusual use and/or accidents.

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Problems or Questions? Call The Technical Assistance HOT LINE - (314) 996-2800

PRODUCT RETURNS

If a product must be returned for repair or replacement*, please contact our factory to obtain a Return Goods Authorization Number (RGA number) before you ship the product to Code 3®, Inc. Write the RGA number clearly on the package near the mailing label. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit.

*Code 3®, Inc. reserves the right to repair or replace at its discretion. Code 3®, Inc. assumes no responsibility or liability for expenses incurred for the removal and/or reinstallation of products requiring service and/or repair; nor for the packaging, handling, and shipping; nor for the handling of products returned to sender after the service has been rendered.



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