

WIRING

DUAL / TRI COLOR

BLACK..... to Chassis ground
RED..... to +VCD with rated fuse
(for correct fuse, refer to Fuse Rating chart)

BROWN..... **[+]** Warning Mode 1 **[P4]**
Default Pattern: Warning - #1 Double-R65
Default Color: Color 1

WHITE..... **[+]** Warning Mode 2 **[P3]**
Default Pattern: Traffic Arrow - #4 [Center Out] Sweep Single End x2
Default Color: Color 2

BROWN + WHITE..... **[+]** Warning Mode 3 **[P2]**
Default Pattern: Pulsing - #1 All Pulsing
Default Color: Color 1 → Color 2 (Dual color), Color 1 → Color 2 → Color 3 (Tri color)

GREEN..... **[+]** Warning Mode 4 (Default) **[P5]** or Low Power Mode **[P1]**
Default Pattern: Flash - #27 Steady 100%
Default Color: Color 3

YELLOW..... **[+]** Flash Pattern Selection / Setting Mode / Synchronization

NOTE:
[+] = Activate the wire function by applying constant +VCD to the wire.
[Px] = Precedence order, when more than a wire is activated at the same time, higher precedence wire will affect lower precedence wire. P1 being the highest priority.

OPERATION

FOR FLASH PATTERN SELECTION:

Each Warning mode may select and save one flash pattern. While activating a warning mode, momentarily apply YELLOW wire to +VCD :
a. quick once to next pattern (refer to Flash Pattern Group charts.) If Flash Pattern Selection is locked, the stick will display a momentary OFF then go back to current flash pattern.
b. quick 3 times to return to pattern #1.
c. 2~4 seconds to skip to next flash pattern group's pattern #1. Flash pattern group switch sequence:
Warning → Partitioned → Pulsing → Left Traffic Arrow → Right Traffic Arrow → Center Out Traffic Arrow.

WARNING MODE 4 and LOW POWER MODE (GREEN WIRE)

The GREEN wire can be set as Warning Mode 4 or Low Power Mode functions.

To switch between Warning Mode and Low Power Mode:

1. Apply BROWN, GREEN, YELLOW and RED wire together to +VCD, then remove YELLOW wire.
2. Tap YELLOW wire to +VCD for less than 1 second to switch between Warning Mode 4 and Low Power Mode.

Low Power Mode activates: The stick displays 5% brightness to indicate Low Power function.

Warning Mode 4 activates: The stick displays 40% brightness to indicate Warning Mode 4.

NOTE: Low Power Mode will not be activated when any Traffic Arrow Pattern is operating.

FLASH PATTERN LOCK

Flash Pattern selection can be locked to prevent accidental change of flash patterns. While activating a Warning Mode and after selecting a desired flash pattern.

To lock:

1. Apply YELLOW wire to +VCD for total 8 seconds; after the initial 2 seconds, the unit will display a momentary OFF then display 1 flash each second till a low power steady-burn to signify locking successfully.
2. Remove YELLOW wire to resume normal operation.

To unlock:

1. Apply YELLOW wire to +VCD for total 8 seconds; after the initial 2 seconds, the unit will display a momentary OFF then display fast short flashes to signify unlocking successfully.
2. Remove YELLOW wire to resume normal operation.

STICK SIDE SETTING

When two units are installed on both sides of a vehicle, the two units can be defined as A and B side for performing "Cross Stick Flash Patterns". [The unit is set to A Side as default]

To set up between A side and B side:

1. Apply BROWN, WHITE, GREEN, YELLOW and RED wire together to +VCD, then remove YELLOW wire to enter stick side setting.
2. When entering Stick Side Setting Mode, the unit will keep flashing once, indicating it is set to the factory default (A Side). To change the setting to the B Side, tap the YELLOW wire to +VCD for less than 1 second.
3. The unit will keep flashing twice, confirming that it has been successfully set to the B Side.
4. Save and exit by removing all power and control wires.

Fuse Rating		
No. of Lightheads	12VCD	24VCD
3-Heads	3.5A	2.0A
4-Heads	5.0A	2.5A
5-Heads	6.0A	3.0A
6-Heads	7.0A	3.5A

SETTING MODE

A. Color Mode, B. Simultaneous or Alternating Synchronization and C. Reset to Default functions require users to enter Setting Mode to operate.

To enter Setting Mode:

1. Power off the unit completely and power up by applying +VCD to RED and BROWN (or WHITE or GREEN or BROWN+WHITE) and YELLOW wires simultaneously.
The unit will not light up at this moment.
2. Remove YELLOW wire from +VCD, the unit will flash in low-power mode to signify entering successfully.
3. Continue the required steps of the above mentioned functions.

A. COLOR MODE (COLOR COMBINATION)

Each Warning Mode can select and save one Color Mode, please refer to the Color Order table.

To select Color Mode, enter respective Setting Mode of each Warning Mode wire:

1. Quickly tap YELLOW wire to +VCD once to next Color Mode.
2. Quickly tap YELLOW wire to +VCD 3 times to return to Color Mode 1.
3. Save and exit by removing all power and Warning Mode wires.

B. SIMULTANEOUS / ALTERNATING SYNCHRONIZATION(GROUPING)

Each Warning Mode can set to its own synchronization Group (Phase).

For Simultaneous Sync, set as same Group (Phase)

For Alternating Sync, set as different Group (Phase).

NOTE: Only apply to Warning Pattern Group.

To select Group:

1. Enter respective Setting Mode of each control wire, the unit will display short flashes to indicate current setting.
2. Apply YELLOW wire to +VCD for 2~4 seconds to switch between Group 1 and Group 2.
3. Save and exit by removing all power and Warning Mode wires.

#	Display	Group
1	Single Flash, All LED	1
2	Double Flash, All LED	2

C. RESET to DEFAULT

To reset to default for each warning mode:

1. Enter Setting Mode, keep applying YELLOW wire to +VCD until the unit displays fast flash then go to low power steady-burn to signify resetting successfully.
2. Remove YELLOW wire.
3. Save and exit and return to Setting Mode by removing all power and control wires.

Warning Pattern Group		
1	Double	[R65]
2	Single	[2Hz]
3	Triple	[R65]
4	Quad	[R65]
5	Single	[SAE]
6	Double	[SAE]
7	Triple	[SAE]
8	Quad	[SAE]
9	Quint	[SAE]
10	Mega	
11	Giga	
12	Ultra	[SAE]
13	Single-Quad	
14	Single H/L	
15	Single-Triple-Quint	
16	Single-Single	
17	Double Double	
18	Triple-Triple Fast	
19	Triple-Triple Mid	
20	Quint-Triple	
21	7-1 Flash	
22	Quad-Single	
23	Quint-Quint	
24	ICAO Flash	
25	Random	
26	Steady Max	
27	Steady 100%	
28	Steady 75%	
29	Steady 50%	
30	Steady 25%	
31	Steady 5%	
32	Steady 1%	
33	Steady EF*	

Partitioned Pattern Group	
1	Front-Rear Single-Single
2	Front-Rear Double-Double
3	Front-Rear Double-Single
4	Front-Rear Triple-Triple
5	Front-Rear Triple-Single
6	Front-Rear Quad-Quad
7	Front-Rear Quad-Single
8	Front-Rear Single H/L II
9	Front-Rear Double-Double II
10	Front-Rear Double-Blast
11	Front-Rear Swing I
12	Front-Rear Triple-Blast
13	Front-Rear Swing II
14	Front-Rear Swing III
15	Front-Rear Triple H/L
16	In-Out Single-Single
17	In-Out Double-Double
18	In-Out Double-Single
19	In-Out Triple-Triple
20	In-Out Triple-Single
21	In-Out Quad-Quad
22	In-Out Quad-Single
23	In-Out Single H/L II
24	In-Out Double-Double II
25	In-Out Double-Blast
26	In-Out Swing I
27	In-Out Triple-Blast
28	In-Out Swing II
29	In-Out Swing III
30	In-Out Triple H/L

Pulsing Pattern Group	
1	All Pulsing
2	All Pulsing Fast
3*	Left-Right Pulsing
4*	Left-Right Pulsing Fast
5	All Pulsing Tremor
6	All Pulsing Tremor Fast
7*	Left-Right Pulsing Tremor
8*	Left-Right Pulsing Tremor Fast
9*	Clockwise Pulsing Chaser
10*	Anti-Clockwise Pulsing Chaser
11*	Clockwise Pulsing Chaser Fast
12*	Anti-Clockwise Pulsing Chaser Fast
13*	Clockwise Pulsing Scan
14*	Anti-Clockwise Pulsing Scan
15*	Clockwise Pulsing Scan Fast
16*	Anti-Clockwise Pulsing Scan Fast
17*	Clockwise Pulsing Comet
18*	Anti-Clockwise Pulsing Comet
19*	Clockwise Pulsing Comet Fast
20*	Anti-Clockwise Pulsing Comet Fast
21	Split Pulsing Chaser
22	Split Pulsing Chaser Fast
23	Split Pulsing Scan
24	Split Pulsing Scan Fast
25	Split Pulsing Comet
26	Split Pulsing Comet Fast
27	In-Out Pulsing Scan Wig-Wag
28	In-Out Pulsing Scan Wig-Wag Fast
29*	Left-Right Pulsing Scan Wig-Wag
30*	Left-Right Pulsing Scan Wig-Wag Fast
31	Butterfly Pulsing Scan
32	Butterfly Pulsing Scan Fast

*Cross Stick Flash Patterns

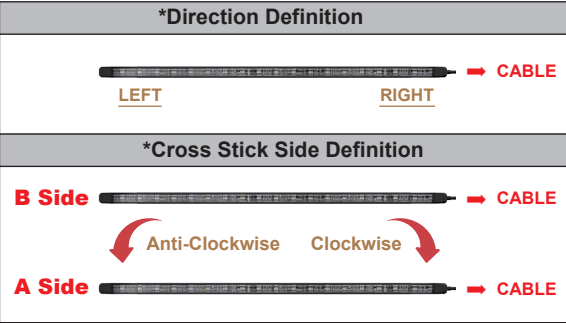
Left Traffic Arrow Pattern Group	
1	Sweep Single
2	Sweep Double
3	Sweep Triple
4	Sweep Single End x2
5	Solid Single
6	Solid End x2
7	Solid Chaser
8	Solid Fade
9	Blink Double
10	Blink Triple
11	Blink Solid

Right Traffic Arrow Pattern Group	
1	Sweep Single
2	Sweep Double
3	Sweep Triple
4	Sweep Single End x2
5	Solid Single
6	Solid End x2
7	Solid Chaser
8	Solid Fade
9	Blink Double
10	Blink Triple
11	Blink Solid

Center Out Traffic Arrow Pattern Group	
1	Sweep Single
2	Sweep Double
3	Sweep Triple
4	Sweep Single End x2
5	Solid Single
6	Solid End x2
7	Solid Chaser
8	Solid Fade
9	Blink Double
10	Blink Triple
11	Blink Solid

Color Order	
1	1
2	2
3	3
4	1 → 2
5	2 → 1
6	2 → 3
7	3 → 2
8	1 → 3
9	3 → 1
10	1 → 2 → 3
11	1 → 3 → 2
12	2 → 1 → 3
13	2 → 3 → 1
14	3 → 1 → 2
15	3 → 2 → 1

Single flash
 Low Power Steady

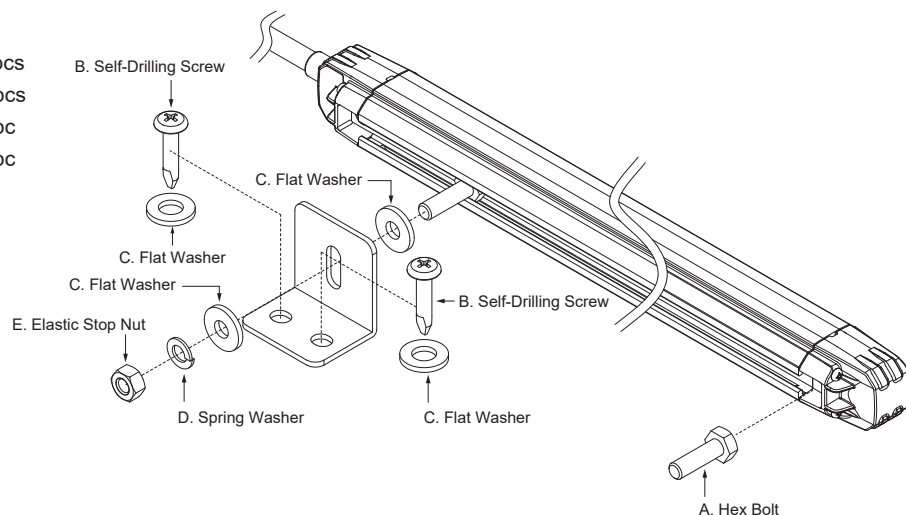


* For use with external flash controller.

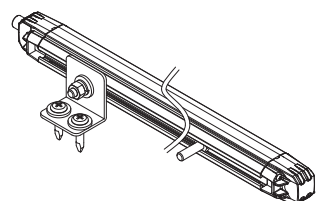
OPTIONAL MINI L-BRACKET KIT For Multifunction Light Stick

FOR EACH BRACKET:

- A. Hex Bolt (supplied with the stick) x 1pc
- B. Self-Drilling Screw x 2pcs
- C. Flat Washer x 4pcs
- D. Spring Washer x 1pc
- E. Elastic Stop Nut x 1pc



Completion Drawing



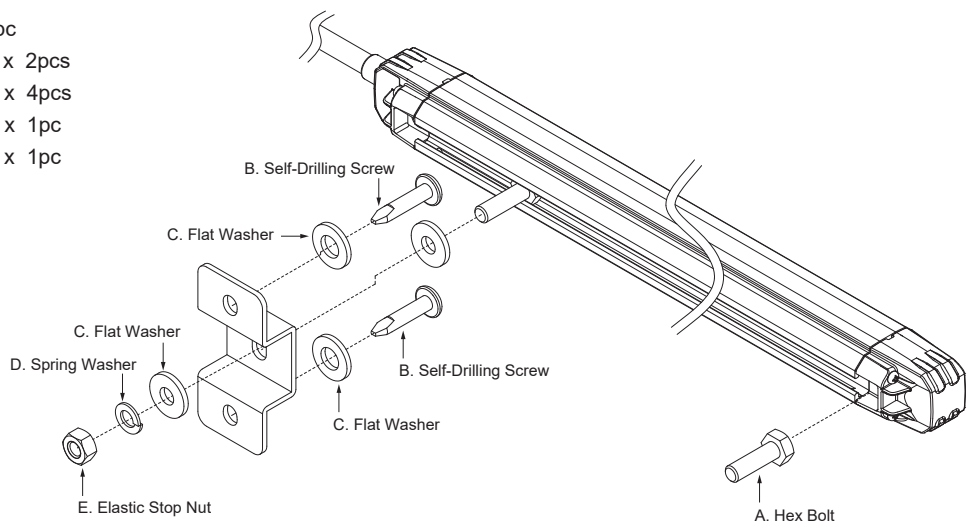
ASSEMBLING NOTE:

1. For 3-head & 4-head models, use at least 2 brackets for each stick.
2. For 5-head and 6-head models, use at least 3 brackets for each stick.
3. Set torque value @ 45±5 kgf-cm (40±4 lbf-in) for all Elastic Stop Nuts.
4. The Hex bolt is packed with the stick.

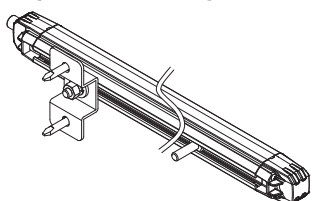
OPTIONAL SURFACE BRACKET KIT For Multifunction Light Stick

FOR EACH BRACKET:

- A. Hex Bolt (supplied with the stick) x 1pc
- B. Self-Drilling Screw x 2pcs
- C. Flat Washer x 4pcs
- D. Spring Washer x 1pc
- E. Elastic Stop Nut x 1pc



Completion Drawing



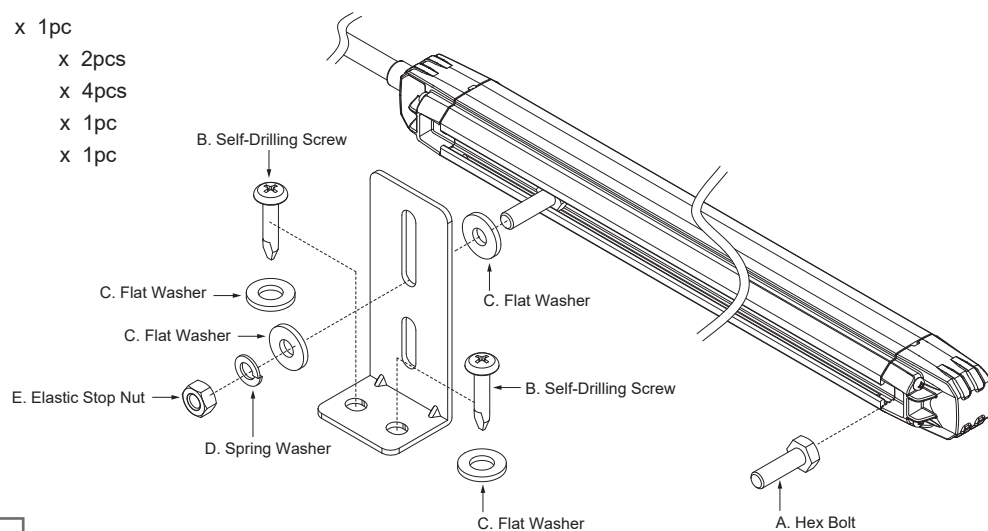
ASSEMBLING NOTE:

1. For 3-head & 4-head models, use at least 2 brackets for each stick.
2. For 5-head and 6-head models, use at least 4 brackets for each stick.
3. Set torque value @ 45±5 kgf-cm (40±4 lbf-in) for all Elastic Stop Nuts.
4. The Hex bolt is packed with the stick.

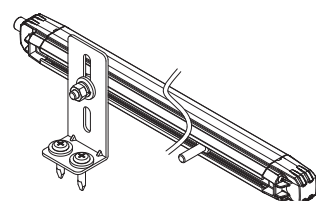
OPTIONAL STANDARD L-BRACKET KIT For Multifunction Light Stick

FOR EACH BRACKET:

- A. Hex Bolt (supplied with the stick) x 1pc
- B. Self-Drilling Screw x 2pcs
- C. Flat Washer x 4pcs
- D. Spring Washer x 1pc
- E. Elastic Stop Nut x 1pc



Completion Drawing



ASSEMBLING NOTE:

1. For 3-head & 4-head models, use at least 2 brackets for each stick.
2. For 5-head and 6-head models, use at least 3 brackets for each stick.
3. Set torque value @ 45±5 kgf-cm (40±4 lbf-in) for all Elastic Stop Nuts.
4. The Hex Bolt is packed with the stick.

Programador (SP007) Listo para el programador

Este producto se puede configurar idealmente mediante el uso del programador con el patrón de destello deseado, grupo (Fase) y el modo de color para ahorrar tiempo de instalación.

⚠ WARNING

- IT IS RECOMMENDED NOT TO USE A HIGH-PRESSURE WASHER AND NEVER A CORROSIVE CLEANER TO CLEAN YOUR STICK.
- IF USING A HIGH-PRESSURE WASHER: WATER PRESSURE @ MAX. 80BAR & DISTANCE @ MIN. 80CM AWAY FROM THE STICK. PLEASE ENSURE THAT HIGH PRESSURE WATER DOES NOT CONTACT THE CABLE SECTION.



- THOROUGHLY RINSE THE STICK WITH CLEAN WATER AFTER EACH WASH.