5-3448-XX
LED Arrowbar

Thank you for purchasing this Haztec product. Before proceeding with installation it is essential to read and understand this instruction booklet.

Image: 5-3448+2

- Multi-module LED Arrowbar
- Slimline installation
- 8 Modules GEN3 LED (standard version)
- Clear module lens
- Choice of LED colours and positions
- Choice of controllers
- User-selectable flash patterns (standard version only)

Warning!

- This product must be installed by persons competent in vehicle electrical installations
- Care must be taken to ensure that water ingress cannot occur through mounting or wiring holes
- Regularly inspect the product to confirm correct operation
- **DO NOT** stare directly into the light it produces as permanent damage to the eyes may result
- Use only a mixture of soap and water to clean this product
- **DO NOT** direct a high-pressure water jet at this product
- **DO NOT** allow solvents; fuels; acetone-based cleaners etc. to come into contact with this product

Basic Operating Specifications:

Operating voltage range:	10-40VDC
Maximum current draw:	0.45A @ 12.5VDC (per module)
Operating temperature range:	-30°C to 55°C

Connection Instructions *(standard version):*

Wire	Connect to	Function
Red	Positive [+] via switch & fuse	Main feed
Black	Negative [-]	Earth/Ground
Blue	See 'Selecting Flash Pattern'	
Green	Positive [+] via switch	Pattern 1 operates
Yellow	Positive [+] via switch	Pattern 2 operates
Orange	Positive [+] via switch	Pattern 3 operates

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Connection Instructions *('FP' version):*

Wire	Connect to	Function
Red	Positive [+] via switch & fuse	Main feed
Black	Negative [-]	Earth/Ground
Blue	Positive [+] via switch & fuse	Alternating Left-Right *(Quad 90fpm)*
Green	Positive [+] via switch & fuse	Left-Right direction arrow
Yellow	Positive [+] via switch & fuse	Right-Left direction arrow
Orange	Positive [+] via switch & fuse	Centre Out direction arrow

Note: 'FP' version flash patterns are factory set

Selecting Flash Pattern *(standard version):*

- Connect the red and black wires as per connection instructions
- Connect either the green, yellow or orange wires to positive [+]
- Briefly tap the blue wire to positive [+] for <1 second to advance the flash pattern
- Repeat process for the remaining two wires
- Once the flash patterns have been set insulate the blue wire

Flash Patterns:

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Program	Sequence	Modules	Pattern	FPM
1	Alternating	[1,2,3] ⇔ [4,5,6]	Quad	180
2	Alternating	[1,2,3] ⇔ [4,5,6]	Single	180
3	Alternating	[1,2,3] ⇔ [4,5,6]	Double	180
4	Alternating	[1,6] ⇔ [2,3,4,5]	Quad	180
5	Alternating	[1,6] ⇔ [2,3,4,5]	Single	180
6	Alternating	[1,6] ⇔ [2,3,4,5]	Double	180
7	Alternating	[1,2,3] ⇔ [4,5,6]	Quad	270
8	Alternating	[1,2,3] ⇔ [4,5,6]	Single	270
9	Alternating	[1,2,3] ⇔ [4,5,6]	Double	270
10	Alternating	[1,6] ⇔ [2,3,4,5]	Quad	270
11	Alternating	[1] ⇔ [6]	-	-
	Flashing	[2,3,4,5]	Quad	270
12	Alternating	[1,3] ⇔ [4,6]	Quad [Low power]	270
13	Alternating	[1,3,5] ⇔ [2,4,6]	Quad	180
14	Alternating/Flashing	[1,3,5] ⇔ [2,4,6]	Quad/Octave	
15	Alternating	[1,2] ⇔ [5,6]	Quad	180
	Steady	[3,4]	-	-

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Program	Sequence	Modules	Pattern	FPM
16	Alternating	[1,2] ⇔ [5,6]	Double	270
	Steady	[3,4]	-	-
17	Alternating	[1,2] ⇔ [5,6]	Quad	270
	Steady	[3,4]	-	-
18	Swing	All	-	-
19	Flash	All	-	-
20	Direct	All	To left	-
21	Direct	All	To right	-
22	Direct	All	Centre out	-
23	Direct	All	To left	-
24	Direct	All	To right	-
25	Direct	All	Centre out	-
26	Direct	All	To left	-
27	Direct	All	To right	-
28	Direct	All	Centre out	-

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Program	Sequence	Modules	Pattern	FPM
1	Alternating	[1~4] ⇔ [5~8]	Quad	180
2	Alternating	[1~4] ⇔ [5~8]	Single	180
3	Alternating	[1~4] ⇔ [5~8]	Double	180
4	Alternating	[3~6] ⇔ [1,2,7,8]	Quad	180
5	Alternating	[3~6] ⇔ [1,2,7,8]	Single	180
6	Alternating	[3~6] ⇔ [1,2,7,8]	Single	180
7	Alternating	[1~4] ⇔ [5~8]	Quad	270
8	Alternating	[1~4] ⇔ [5~8]	Single	270
9	Alternating	[1~4] ⇔ [5~8]	Double	270
10	Alternating	[3~6] ⇔ [1,2,7,8]	Quad	270
11	Alternating	[1,2] ⇔ [7,8]	-	-
	Flashing	[3~6]	Quad	270
12	Alternating	[2,4] ⇔ [5,7]	Quad [low power]	270
13	Alternating	[1,3,5,7] ⇔ [2,4,6,8]	Quad	180
14	Alternating/Flashing	[1,3,5,7] ⇔ [2,4,6,8]	Quad/Octave	-
15	Alternating	[1~3] ⇔ [6~8]	Quad	180
	Steady	[4,5]	-	-
16	Alternating	[1~3] ⇔ [6~8]	Double	270
	Steady	[4,5]	-	-
17	Alternating	[1~3] ⇔ [6~8]	Quad	270
	Steady	[4,5]	-	-

Program	Sequence	Modules	Pattern	FPM
18	Swing	All	-	-
19	Flashing	All	Single	-
20	Direct	All	To Left	-
21	Direct	All	To Right	-
22	Direct	All	Centre Out	-
23	Direct	[2 to 7]	To Left	-
	Alternating	[1] ⇔ [8]	Quad	-
24	Direct	[2 to 7]	To Right	-
	Alternating	[1] ⇔ [8]	Quad	-
25	Direct	[2 to 7]	Centre Out	-
	Alternating	[1] ⇔ [8]	Quad	-
26	Direct	[2 to 7]	To Left	-
	Flashing	[1] ⇔ [8]	Quad	--
27	Direct	[2 to 7]	To Right	-
	Flashing	[1] ⇔ [8]	Quad	-
28	Direct	[2 to 7]	Centre Out	-
	Flashing	[1] ⇔ [8]	Quad	-

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Program	Sequence	Modules	Pattern	FPM
1	Alternating	[1~5] ⇔ [6~10]	Quad	180
2	Alternating	[1~5] ⇔ [6~10]	Single	180
3	Alternating	[1~5] ⇔ [6~10]	Double	180
4	Alternating	[Left & Right] ⇔ Centre	Quad	180
5	Alternating	[Left & Right] ⇔ Centre	Single	180
6	Alternating	[Left & Right] ⇔ Centre	Single	180
7	Alternating	[1~5] ⇔ [6~10]	Quad	270
8	Alternating	[1~5] ⇔ [6~10]	Single	270
9	Alternating	[1~5] ⇔ [6~10]	Double	270
10	Alternating	[Left & Right] ⇔ Centre	Quad	270
11	Alternating	[Left & Right] ⇔ Centre	Quad	375
12	Alternating	[1,3,5] ⇔ [6,8,10]	Quad	270
13	Alternating	[1,3,5,7,9] ⇔ [2,4,6,8,10]	Quad	180
14	Alternating/Flashing	[1,3,5,7,9] ⇔ [2,4,6,8,10]	Quad/Octave	250/375
15	Alternating	[1~5] ⇔ [6~10]	Quad	180
	Steady	Centre	-	-
16	Alternating	[1~5] ⇔ [6~10]	Double	270
	Steady	Centre	-	-
17	Alternating	[1~5] ⇔ [6~10]	Quad	270
	Steady	Centre	-	-

Program	Sequence	Modules	Pattern	FPM
18	Swing	All	-	-
19	Flashing	All	Single	-
20	Direct	All	To Right	-
21	Direct	All	To Left	-
22	Direct	All	Centre Out	-
23	Direct	[2 to 9]	To Right	-
23	Alternating	[1] ⇔ [10]	-	-
24	Direct	[9 to 2]	To Left	-
24	Alternating	[1] ⇔ [10]	-	-
25	Direct	[2 to 9]	Centre Out	-
25	Alternating	[1] ⇔ [10]	-	-
26	Direct	[2 to 9]	To Right	-
26	Flashing	[1,10]	-	-
27	Direct	[9 to 2]	To Left	-
27	Flashing	[1,10]	-	-
28	Direct	[2 to 9]	Centre Out	-
28	Flashing	[1,10]	-	-

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Program	Sequence	Modules	Pattern	FPM
1	Alternating	[1~6] ⇔ [7~12]	Quad	180
2	Alternating	[1~6] ⇔ [7~12]	Single	180
3	Alternating	[1~6] ⇔ [7~12]	Double	180
4	Alternating	[Left & Right] ⇔ Centre	Quad	180
5	Alternating	[Left & Right] ⇔ Centre	Single	180
6	Alternating	[Left & Right] ⇔ Centre	Double	180
7	Alternating	[1~6] ⇔ [7~12]	Quad	270
8	Alternating	[1~6] ⇔ [7~12]	Single	270
9	Alternating	[1~6] ⇔ [7~12]	Double	270
10	Alternating	[Left & Right] ⇔ Centre	Quad	270
11	Alternating	[Left & Right] ⇔ Centre	Quad	375
12	Alternating	[2,4,6] ⇔ [7,9,11]	Quad [low power]	270
13	Alternating	[1,3,5,7,9,11] ⇔ [2,4,6,8,10,12]	Quad	180
14	Alternating/Flashing	[1,3,5,7,9,11] ⇔ [2,4,6,8,10,12]	Quad/Octave	250/3751
15	Alternating	[1~6] ⇔ [7~12]	Quad	180
15	Steady	Centre	-	-

Program	Sequence	Modules	Pattern	FPM
16	Alternating	[1~6] ⇔ [7~12]	Double	270
	Steady	Centre	-	-
17	Alternating	[1~6] ⇔ [7~12]	Quad	270
	Steady	Centre	-	-
18	Swing	All	-	-
19	Flashing	All	Single	-
20	Direct	All	To Left	-
21	Direct	All	To Right	-
22	Direct	All	Centre Out	-
23	Direct	[3 to 10]	To Left	-
	Alternating	[1,2] ⇔ [11,12]	-	-
24	Direct	[3 to 10]	To Right	-
	Alternating	[1,2] ⇔ [11,12]	-	-
25	Direct	[3 to 10]	Centre Out	-
	Alternating	[1,2] ⇔ [11,12]	-	-
26	Direct	[3 to 10]	To Left	-
	Flashing	[1,2,11,12]	Quad	-
27	Direct	[3 to 10]	To Right	-
	Flashing	[1,2,11,12]	Quad	-
28	Direct	[3 to 10]	Centre Out	-
	Flashing	[1,2,11,12]	Quad	-

Installation Note:

To ensure correct orientation, the Arrowbar must be installed so that the wiring loom is to the left-hand side of the housing, as shown below

Wiring loom to left-hand side

TOP