HB80-RF Solar Powered Marine Light with Remote Controller(7-10NM)

Remote Controller

Description:

HB80-RF LED Solar marine light has become the most classical solar-powered LED Light in the field of marine aid to navigation around the world. Because of its self-contained, reliability and durability, it has also become a perfect model for all kinds of warning applications. It installs in minutes and requires no maintenance or servicing for up to five years. It complies with IALA-AISM's requirements.

The LED marine light is one of the most advanced in its class, and incorporates a host of innovative features designed to make the unit extremely user-friendly.

The world-class LED lens is designed by Lansing and achieves precise intensity and sectoring requirements from a single LED light source.

This design helps achieve a lower operational current compared with alternative LED marine lights – making the unit ultra efficient.

Four (4) premium-grade solar modules are integrated into the assembly, and mounted to collect sunlight at all angles.

This light has built in GPS module(optional), and several lights can synchronize at the same time,and also provide the 256 flashing patterns that comply with IALA.

Features& Benefits:

- Based on LED technology, and its color complies to IALA Recommendations E-200-1.
- 7 to 10NM visible range
- Convenient ON/OFF switch
- With bird’ s pike
- Integrated handle
- Complete self-contained solar/battery light
- Automatic night activation
- With built in NIMH battery, maintenance free and easy for replace.
- Once fully charged, it can work for up to 8-25 days
- Extremely Reliable and cost saving.
- Installs in seconds
- Low power consumption
- IP67 waterproof
- Robust
- 256 kinds of flashing pattern
- GSM faulty alarm function(optional)
- With GPS Synchronization(optional)
- With charging port and charger(optional)

Applications:

- High rise building marking
- Road obstruction marking
- Port, dock entrance walkway
- Offshore gas & oil platform
- Telecom tower marking
- Navigation aid
- Buoy marking

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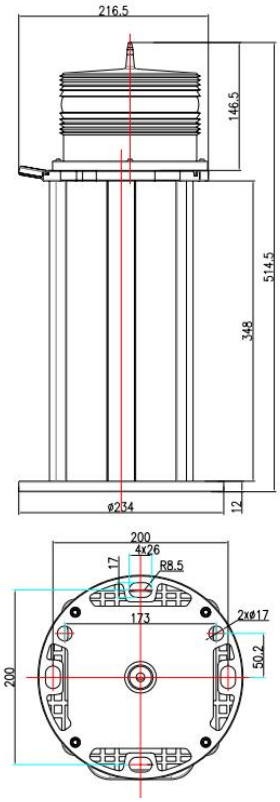

Specifications:

Light Model	HB80-RF
Intensity	1600cd
Nominal Night Range	7-10NM
LED Color Available	Red, green, yellow, blue or white(optional)
Vertical Divergence	10 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	25 days (flashing), 8 days(steady burning)
On & Off Level	70/100 Lux
Flash Pattern	Steady burning(default) or flashing mode(20-60 times/min)
POWER SUPPLY	
Power Source	Solar module, mono-crystalline silicon
Solar Efficiency	14%
Max. Power Out-put	18V/4*6W
Battery Type	High-efficiency Lithium rechargeable battery
Battery Capacity	12V14Ah
Battery Replacement	Yes, replaceable
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Net weight	9.8KG
Gross weight	12KG
Temperature Range	-40C ~ +55C
Dimensions	514.5mm H, 234mm Diameter
Warranty	5 years for light 2 years for Lithium battery Available with GSM Monitoring function Available with GPS Synchronization function

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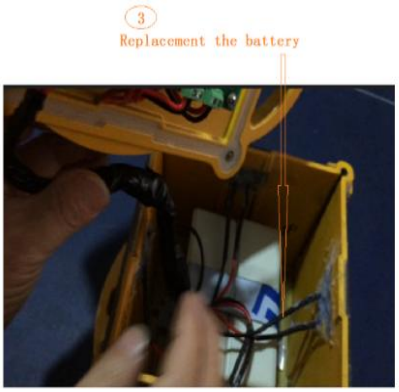
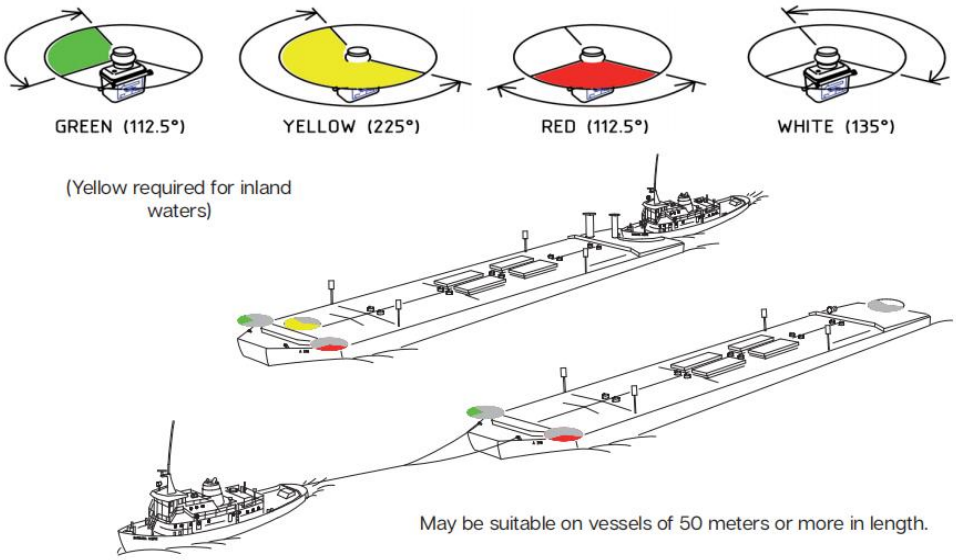
Battery replacement

Note: when the light is in storage, please put it outside to charge the battery every 3 months



All Round 360° Light Configuration

The Lansing Solar marine light is also available as a 360 degree all round light with either flashing or steady-on flash characteristics.



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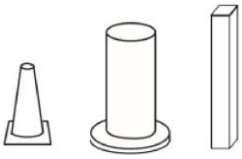
Installation & operation

Introduction

- The Solar Marine Light is:
- Self-contained and solar-powered
- Easy-to-install and low-maintenance with a long-life LED
- Available in red, green, white, yellow and blue
- Easy-to-maintain with replaceable Lithium batteries Nominal range of a lantern depends on its effective intensity and environmental conditions.

Applications

The Solar Marine Light is suitable for ground marking, way finding, perimeter marking, marine navigation, aviation aids and other applications where a hazard marking light is required.

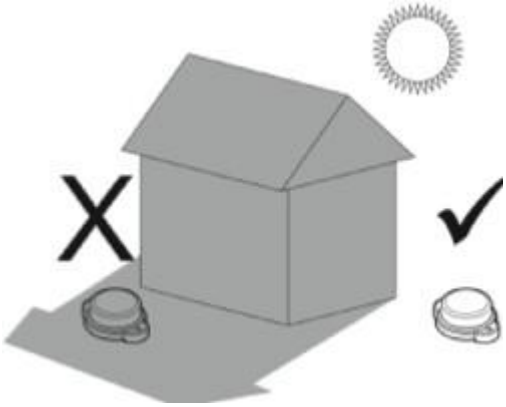


Installation

Year-round, unrestricted solar exposure is critical to long-term performance. Shade dramatically reduces the ability of the light to charge its battery.
To install the lantern: Fix in place with 4x bolts, studs & nuts, nails or screws. Recommended bolt size is M8.

Operation&Storage

In daylight, the solar panel charges the battery using the Energy Management System (EMS). The capacity of the battery ensures that even with poor levels of sunlight over an extended period, the lantern has enough reserve power to continue to perform reliably. Stored battery energy then powers the LED during the night. Turn the lantern off to store. Check the battery state of charge every 6 months and charge if required. High-grade Lithium batteries shipped with the Solar Navigation Light can be stored without any charging for up to 1year with no battery damage.



Test

Press the red switch lightly, and press the number A of the remote control twice to turn on the light. Press number B on the remote control to shut down. If you check the lights during the day, remember to cover the solar panels. GPS luminaries need to be kept in an open area and flashes in sync after 5-10 minutes.

Maintenance

Although the Solar Marine Light is maintenance-free, performance gains can be made. Clean with water and a soft sponge or cloth. A mild non-abrasive cleanser can be used for more stubborn residue. Clean more frequently during drier months as dust accumulates more quickly. Check the exterior for cracks, missing or broken hardware.

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Recycling

This product may contain substances that could be harmful to the environment or human health if improperly handled at the product' s end of life. Check your local municipality for electronics recycles. The batteries are rechargeable Lithium batteries. Consult your local laws for information on recycling.

Warranty

This product is covered 5 years warranty on the light and 2 years on the battery. Failure to comply with the use, storage, maintenance, or installation instructions detailed in this manual could void the warranty. Changes or modifications not expressly approved by the party responsible for compliance could void the user' s authority to operate the equipment.

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Annex: Flashing rate instruction

SWITCH		FLASH CODE	ON	OFF
SWA	SWB			
0	0	F (Steady light)		
0	1	VQ 0.5 S	0.2	0.3
0	2	VQ 0.6 S	0.2	0.4
0	3	VQ 0.6 S	0.3	0.3
0	4	Q 1 S	0.2	0.8
0	5	Q 1 S	0.3	0.7
0	6	Q 1 S	0.4	0.6
0	7	Q 1 S	0.5	0.5
0	8	Q 1 S	0.8	0.2
0	9	Q 1.2 S	0.3	0.9
0	A	Q 1.2 S	0.5	0.7
0	B	Q 1.2 S	0.6	0.6
0	C	FL 1.5 S	0.2	1.3
0	D	FL 1.5 S	0.3	1.2
0	E	FL 1.5 S	0.4	1.1
0	F	FL 1.5 S	0.5	1
1	0	FL 2 S	0.2	1.8
1	1	FL 2 S	0.3	1.7
1	2	FL 2 S	0.4	1.6
1	3	FL 2 S	0.5	1.5
1	4	FL 2 S	0.7	1.3
1	5	FL 2 S	0.8	1.2
1	6	ISO 2 S	1	1
1	7	FL 2.5 S	0.3	2.2
1	8	FL 2.5 S	0.5	2
1	9	FL 2.5 S	1	1.5
1	A	FL 3 S	0.2	2.8
1	B	FL 3 S	0.3	2.7
1	C	FL 3 S	0.4	2.6
1	D	FL 3 S	0.5	2.5
1	E	FL 3 S	0.6	2.4
1	F	FL 3 S	0.7	2.3

SWITCH		FLASH CODE	ON	OFF
SWA	SWB			
2	0	FL 3 S	1	2
2	1	ISO 3 S	1.5	1.5
2	2	OC 3 S	2	1
2	3	OC 3 S	2.5	0.5
2	4	OC 3.5 S	2.5	1
2	5	FL 4 S	0.2	3.8
2	6	FL 4 S	0.3	3.7
2	7	FL 4 S	0.4	3.6
2	8	FL 4 S	0.5	3.5
2	9	FL 4 S	0.6	3.4
2	A	FL 4 S	0.8	3.2
2	B	FL 4 S	1	3
2	C	FL 4 S	1.5	2.5
2	D	ISO 4 S	2	2
2	E	OC 4 S	2.5	1.5
2	F	OC 4 S	3	1
3	0	FL 4.3 S	1.3	3
3	1	FL 5 S	0.2	4.8
3	2	FL 5 S	0.3	4.7
3	3	FL 5 S	0.5	4.5
3	4	FL 5 S	0.9	4.1
3	5	FL 5 S	1	4
3	6	FL 5 S	1.5	3.5
3	7	ISO 5 S	2.5	2.5
3	8	LFL 5 S	2	3
3	9	OC 5 S	3	2
3	A	OC 5 S	4	1
3	B	OC 5 S	4.5	0.5
3	C	FL 6 S	0.2	5.8
3	D	FL 6 S	0.3	5.7
3	E	FL 6 S	0.4	5.6
3	F	FL 6 S	0.5	5.5

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SWITCH		FLASH CODE	ON	OFF
SWA	SWB			
4	0	FL 6 S	0.6	5.4
4	1	FL 6 S	1	5
4	2	FL 6 S	1.2	4.8
4	3	FL 6 S	1.5	4.5
4	4	ISO 6 S	3	3
4	5	LFL 6 S	2	4
4	6	OC 6 S	4	2
4	7	OC 6 S	4.5	1.5
4	8	OC 6 S	5	1
4	9	FL 7 S	1	6
4	A	FL 7 S	2	5
4	B	OC 7 S	4.5	2.5
4	C	FL 7.5 S	0.5	7
4	D	FL 7.5 S	0.8	6.7
4	E	FL 8 S	0.5	7.5
4	F	FL 8 S	1	7
5	0	ISO 8 S	4	4
5	1	LFL 8 S	2	6
5	2	OC 8 S	5	3
5	3	LFL 8 S	3	5
5	4	FL 9 S	0.9	8.1
5	5	FL 9 S	1	8
5	6	OC 9 S	6	3
5	7	FL 10 S	0.2	9.8
5	8	FL 10 S	0.3	9.7
5	9	FL 10 S	0.5	9.5
5	A	FL 10 S	0.8	9.2
5	B	FL 10 S	1	9
5	C	FL 10 S	1.5	8.5
5	D	LFL 10 S	2	8
5	E	LFL 10 S	3	7
5	F	ISO 10 S	5	5

SWITCH		FLASH CODE	ON	OFF
SWA	SWB			
6	0	LFL 10 S	4	6
6	1	OC 10 S	6	4
6	2	OC 10 S	7	3
6	3	OC 10 S	7.5	2.5
6	4	FL 12 S	1.2	10.8
6	5	FL 12 S	2.5	9.5
6	6	LFL 12 S	2	10
6	7	FL 15 S	1	14
6	8	LFL 15 S	4	11
6	9	OC 15 S	10	5
6	A	LFL 20 S	2	18
6	B	FL 26 S	1	25

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SWITCH		FLASH CODE	ON	OFF	ON	OFF
SWA	SWB					
6	C	FL (2) 4 S	0.5	1	0.5	2
6	D	VQ (2) 4 S	0.2	1	0.2	2.6
6	E	FL (2) 4.5 S	0.3	1	0.3	2.9
6	F	FL (2) 4.5 S	0.4	1	0.4	2.7
7	0	FL (2) 4.5 S	0.5	1	0.5	2.5
7	1	FL (2) 5 S	0.2	0.8	0.2	3.8
7	2	FL (2) 5 S	0.2	1.2	0.2	3.4
7	3	FL (2) 5 S	0.4	0.6	0.4	3.6
7	4	FL (2) 5 S	0.5	1	0.5	3
7	5	FL (2) 5 S	1	1	1	2
7	6	Q (2) 5 S	0.3	0.7	0.3	3.7
7	7	Q (2) 5 S	0.5	0.5	0.5	3.5
7	8	FL (2) 5.5 S	0.4	1.4	0.4	3.3
7	9	FL (2) 6 S	0.3	0.6	1	4.1
7	A	FL (2) 6 S	0.3	0.9	0.3	4.5
7	B	FL (2) 6 S	0.3	1	0.3	4.4
7	C	FL (2) 6 S	0.4	1	0.4	4.2
7	D	FL (2) 6 S	0.5	1	0.5	4
7	E	FL (2) 6 S	0.8	1.2	0.8	3.2
7	F	FL (2) 6 S	1	1	1	3
8	0	Q (2) 6 S	0.3	0.7	0.3	4.7
8	1	FL (2) 7 S	1	1	1	4
8	2	FL (2) 8 S	0.4	0.6	2	5
8	3	FL (2) 8 S	0.4	1	0.4	6.2
8	4	FL (2) 8 S	0.5	1	0.5	6
8	5	FL (2) 8 S	0.8	1.2	2.4	3.6
8	6	FL (2) 8 S	1	1	1	5
8	7	OC (2) 8 S	3	2	1	2
8	8	OC (2) 8 S	5	1	1	1
8	9	VQ (2) 8 S	0.2	1	0.2	6.6
8	A	FL (2) 10 S	0.4	1.6	0.4	7.6
8	B	FL (2) 10 S	0.5	0.5	1.5	7.5
8	C	FL (2) 10 S	0.5	1	0.5	8
8	D	FL (2) 10 S	0.5	1.5	0.5	7.5
8	E	FL (2) 10 S	0.5	2	0.5	7
8	F	FL (2) 10 S	0.8	1.2	0.8	7.2

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SWITCH		FLASH CODE	ON	OFF	ON	OFF
SWA	SWB					
9	0	FL (2) 10 S	1	1	1	7
9	1	FL (2) 10 S	1	1.5	1	6.5
9	2	Q (2) 10 S	0.6	0.4	0.6	8.4
9	3	FL (2) 12 S	0.4	1	0.4	10.2
9	4	FL (2) 12 S	0.5	1	0.5	10
9	5	FL (2) 12 S	1.5	2	1.5	7
9	6	FL (2) 15 S	0.5	1.5	2	11
9	7	FL (2) 15 S	1	2	1	11
9	8	Q (2) 15 S	0.2	0.8	0.2	13.8
9	9	FL (2) 20 S	1	3	1	15
9	A	FL (2) 25 S	1	1	1	22

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SWITCH		FLASH CODE	ON	OFF	ON	OFF	ON	OFF
SWA	SWB							
9	B	Q (3) 5 S	0.5	0.5	0.5	0.5	0.5	2.5
9	C	VQ (3) 5 S	0.2	0.3	0.2	0.3	0.2	3.8
9	D	VQ (3) 5 S	0.3	0.2	0.3	0.2	0.3	3.7
9	E	VQ (3) 5 S	0.3	0.3	0.3	0.3	0.3	3.5
9	F	FL (3) 6 S	0.5	1	0.5	1	0.5	2.5
A	0	FL (2+1) 6 S	0.3	0.4	0.3	1.2	0.3	3.5
A	1	Q (3) 6 S	0.3	0.7	0.3	0.7	0.3	3.7
A	2	FL (3) 8 S	0.5	1	0.5	1	0.5	4.5
A	3	FL (3) 9 S	0.3	1	0.3	1	0.3	6.1
A	4	FL (3) 9 S	0.8	1.2	0.8	1.2	0.8	4.2
A	5	FL (3) 10 S	0.3	0.7	0.3	0.7	0.9	7.1
A	6	FL (3) 10 S	0.4	0.6	0.4	0.6	1.2	6.8
A	7	FL (3) 10 S	0.5	0.5	0.5	0.5	0.5	7.5
A	8	FL (3) 10 S	0.5	1.5	0.5	1.5	0.5	5.5
A	9	FL (3) 10 S	0.6	0.6	0.6	0.6	0.6	7
A	A	FL (3) 10 S	1	1	1	1	1	5
A	B	FL (2+1) 10 S	0.5	0.7	0.5	2.1	0.5	5.7
A	C	OC (3) 10 S	5	1	1	1	1	1
A	D	Q (3) 10 S	0.3	0.7	0.3	0.7	0.3	7.7
A	E	FL (2 + 1) 10 S	0.5	0.5	0.5	0.5	1.5	6.5
A	F	FL (3) 12 S	0.5	1.5	0.5	1.5	0.5	7.5
B	0	FL (3) 12 S	0.5	2	0.5	2	0.5	6.5
B	1	FL (3) 12 S	0.8	1.2	0.8	1.2	0.8	7.2
B	2	FL (3) 12 S	1	1	1	3	1	5
B	3	FL (2+1) 12 S	0.8	1.2	0.8	2.4	0.8	6
B	4	FL (2+1) 12 S	1	1	1	4	1	4
B	5	FL (2+1) 13.5 S	1	1	1	4	1	5.5
B	6	FL (3) 15 S	0.3	1.7	0.3	1.7	0.3	10.7
B	7	FL (3) 15 S	0.4	1	0.4	1	0.4	11.8
B	8	FL (3) 15 S	0.5	1.5	0.5	1.5	0.5	10.5
B	9	FL (2+1) 15 S	0.6	0.3	0.6	0.3	1.4	11.8
B	A	FL (2+1) 15 S	0.7	0.5	0.7	0.5	1.9	10.7
B	B	FL (2+1) 15 S	0.7	0.7	0.7	0.7	2.1	10.1
B	C	FL (2+1) 15 S	1	2	1	5	1	5
B	D	VQ (3) 15 S	0.1	0.5	0.1	0.5	0.1	13.7
B	E	FL (3) 20 S	0.5	3	0.5	3	0.5	12.5
B	F	FL (3) 20 S	0.5	1.5	0.5	1.5	0.5	15.5
C	0	FL (3) 20 S	0.8	1.2	0.8	1.2	0.8	15.2
C	1	FL (3) 20 S	1	1	1	1	1	15

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SWITCH		FLASH CODE	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SWA	SWB									
C	2	VQ (4) 4 S	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.9
C	3	Q (4) 6 S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	2.7
C	4	Q (4) 6 S	0.4	0.6	0.4	0.6	0.4	0.6	0.4	2.6
C	5	FL (4) 10 S	0.5	1	0.5	1	0.5	1	0.5	5
C	6	FL (4) 10 S	0.8	1.2	0.8	1.2	0.8	1.2	0.8	3.2
C	7	Q (4) 10 S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	6.7
C	8	FL (4) 12 S	0.3	1.7	0.3	1.7	0.3	1.7	0.3	5.7
C	9	FL (4) 12 S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	8.5
C	A	FL (4) 12 S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	5.5
C	B	FL (4) 12 S	0.8	1.2	0.8	1.2	0.8	1.2	0.8	5.2
C	C	Q (4) 12 S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	8.7
C	D	FL (4) 15 S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	8.5
C	E	FL (4) 15 S	1	1	1	1	1	1	1	8
C	F	FL (4) 15 S	1.5	0.5	0.5	0.5	0.5	0.5	0.5	10.5
D	0	FL (4) 16 S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	9.5
D	1	FL (4) 20 S	0.3	3	0.3	3	0.3	3	0.3	9.8
D	2	FL (4) 20 S	0.5	1.5	0.5	1.5	0.5	1.5	0.5	13.5
D	3	FL (4) 20 S	0.5	1.5	0.5	1.5	0.5	4.5	0.5	10.5
D	4	FL (4) 20 S	1.5	1.5	1.5	1.5	1.5	1.5	1.5	9.5
D	5	Q (4) 20 S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	16.5
D	6	Q (4) 28 S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	24.5
D	7	FL (4) 30 S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	26.5

SWITCH		FLASH CODE	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SWA	SWB											
D	8	Q (5) 7 S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	2.7
D	9	Q (5) 10 S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	5.7
D	A	FL (5) 16.5 S	5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	3.5
D	B	FL (5) 20 S	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	15.5
D	C	FL (5) 20 S	0.8	1.2	0.8	1.2	0.8	1.2	0.8	1.2	0.8	11.2
D	D	FL (5) 20 S	1	1	1	1	1	1	1	1	1	11

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SWITCH		FLASH CODE	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SWA	SWB													
D	E	Q (6) 10 S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	4.7
D	F	FL (6) 15 S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	9.7
E	0	FL (6) 15 S	0.5	1	0.5	1	0.5	1	0.5	1	0.5	1	0.5	7
E	1	FL (6) + LFL 15 S	0.5	1	0.5	1	0.5	1	0.5	1	0.5	1	0.5	7

SWITCH		FLASH CODE	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SWA	SWB															
E	2	VQ (6) + LFL 10 S	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	2	5
E	3	VQ (6) + LFL 10 S	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2	4.4
E	4	Q (6) + LFL 15 S	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	2	7
E	5	Q (6) + LFL 15 S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	2	7
E	6	Q (6) + LFL 15 S	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	2	5.8
E	7	VQ (6) + LFL 15 S	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2	9.4

SWITCH		FLASH CODE	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SWA	SWB																			
E	8	VQ (9) 10 S	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	5.8
E	9	VQ (9) 10 S	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4.9
E	A	Q (9) 15 S	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	0.8	0.2	6.8
E	B	Q (9) 15 S	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	0.7	0.3	6.7
E	C	Q (9) 15 S	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	4.8

SWITCH		FLASH CODE	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SWA	SWB									
MORSE CODE ( ) INDICATES LETTER										
E	D	MO (A) 6 S	0.3	0.6	1	4.1				
E	E	MO (A) 8 S	0.4	0.6	2	5				
E	F	MO (A) 8 S	0.8	1.2	2.4	3.6				
F	0	MO (U) 10 S	0.3	0.7	0.3	0.7	0.9	7.1		
F	1	MO (U) 10 S	0.4	0.6	0.4	0.6	1.2	6.8		
F	2	MO (U) 10 S	0.5	0.5	0.5	0.5	1.5	6.5		
F	3	MO (A) 10 S	0.5	0.5	1.5	7.5				
F	4	MO (D) 10 S	5	1	1	1	1	1		
F	5	MO (A) 15 S	0.5	1.5	2	11				
F	6	MO (U) 15 S	0.6	0.3	0.6	0.3	1.4	11.8		
F	7	MO (U) 15 S	0.7	0.5	0.7	0.5	1.9	10.7		
F	8	MO (U) 15 S	0.7	0.7	0.7	0.7	2.1	10.1		
F	9	MO (B) 15 S	1.5	0.5	0.5	0.5	0.5	0.5	0.5	10.5
F	A	MO (F) 15 S	0.5	0.5	0.5	0.5	1.5	0.5	0.5	10.5

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