

# Installation & Operation Instructions

P/Nos: 85015A, 85015AC, 85015XX, 85016A, 85016AC, 85017A, 85017AC, 85017XX, 85019A, 85019AC, 85019XX





## FEATURES

- Designed engineered and tested in Australia
- Unique reflector design insure superior visibility day or night
- Ultra durable with extreme vibration resistance
- Versatile mounting options via bolts to the cradle or direct to the base or Magnetic mount (85016A/AC)
- SAE Class 1
- ECE R65 Class 2
- 9-80V Operation
- P67 + IP69K
- CISPR25 Class 3

## **PRE-INSTALLATION**

To prevent damage to the light box and vehicle carefully plan mounting position for the light box, cable and controlling equipment:

- 1. Pre-configure desired light box flash pattern prior to hard wiring (Bracket or Bolt Mount only)
- 2. Determine: the location to mount the light box.
  - the location to route the light box cable.
- 3. Separate all electronic equipment wiring from two-way radio equipment wiring.
- **4.** To avoid interference, keep two-way radio antennas a minimum of 50cm away from warning equipment.

### WIRING & INSTALLATION (MAGNETIC MOUNT 85016A, 85016AC)

To power the magnetic mount LED light box, connect the supplied cigarette lighter plug lead into the vehicle's cigarette lighter socket and press the ON/OFF button.



#### CHANGING FLASH PATTERNS (P/Nos. 85016A, 85016AC)

The magnetic mount LED light box features a flash pattern selection switch located on the cigarette lighter plug. To change the flash pattern, push the flash pattern button once.

Flash pattern / High

Off



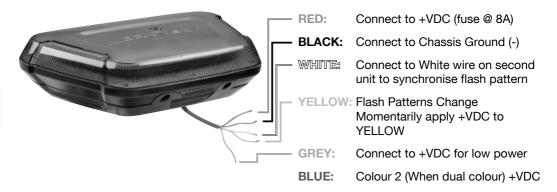
# HIGH/LOW POWER MODES

In many applications High Power mode can be too bright at night. The additional wire allows manual switching to low power mode (30% power). This function can be wired by adding an extra switch or connected to the park light circuit so it changes when the headlights are turned on.

To change power mode hold the flash pattern button for more than 5 seconds (85016A).

### WIRING & INSTALLATION (FLANGE MOUNT P/Nos. 85015A, 85015AC, 85017A, 85017AC, 85019A, 85019AC)

Different applications require different flash patterns. It is highly recommended to determine and configure the required flash pattern prior to installation.



### CHANGING FLASH PATTERNS (P/Nos. 85015A, 85015AC, 85017A, 85017AC, 85019A, 85019AC)

The flange mount L.E.D light box features a flash pattern selection wire (yellow). Touch the YELLOW wire once to the negative supply to change the flash pattern.

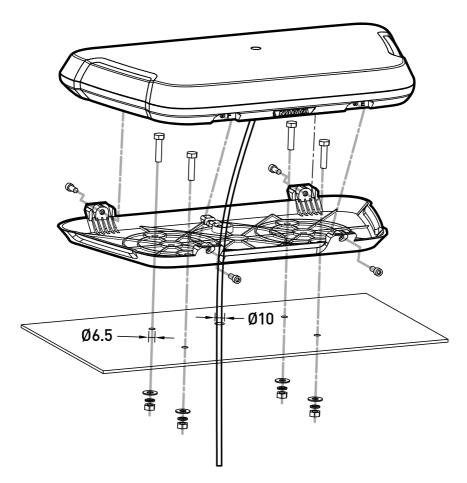
# FLASH PATTERN FUNCTIONS

Flash Pattern No.	Flash Patterns	
1	Double Flash (SAE, ECE TA2)	11 11 11 11 11
2	Ultra (alternating flash)	LEFT
3	Ultra (cross flash)	FRONT IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
4	Rotate	>>>>>>>>>>>>>>>>>>>>>>>>>>>>
5	Quint	
6	Double Rotate*	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
7	Steady On	

\*Rotates on two sides of the light box

# **CRADLE MOUNT**

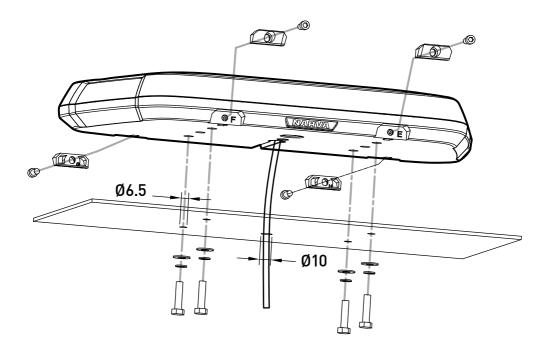
- **1** Prepare a suitable area on the vehicle's surface by wiping it clean to prevent scratching.
- **2** Drill a 10mm hole into the surface for the wires to exit through for connection to a power source. Alternatively, the wires can be directed through the side of lamp's base for connection to a power source.
- **3** Using the supplied lamp gasket as a template, drill 6.5mm holes for fitment and secure to the surface using the supplied mounting bolts. A mounting pad is included and can be installed between the surface and the lamp.
- **4** Mount the cradle to the vehicle, make sure the cable is routed in the correct orientation (through the mounting surface or via the cable exit).
- **5** Attached the lamp to the cradle via the 4 bolts with supplied allen key.
- **6** Route the wires as planned in step 2. Connect the red (+) wire to 10–60V DC and the black (-) wire to ground. Test.



# DIRECT MOUNT

Perform step 1 and 2 (if required).

- **3** Using the supplied lamp gasket as a template, drill 6.5mm holes for fitment and install using supplied screws from below which fit directly into the nutserts of the light box.
- **4** Mount the cradle to the vehicle, by installing bolts from underneath into the nutserts on the light box. Make sure the cable is routed in the correct orientation (through the mounting surface or via the cable exit).
- **5** Route the wires as planned in step 2. Connect the red (+) wire to 10–60V DC and the black (-) wire to ground. Test.



# **TECHNICAL SPECIFICATIONS**

	85015A/AC	85016A/AC	85017/AC	85019/AC	
Operating Voltage	10-80V	10-80V	10-80V	10-80V	
Temp range	-40 to 60°C	-40 to 60°C	-40 to 60°C	-40 to 60°C	
CISPR 25	3	3	3	3	
R10	✓	$\checkmark$	✓	✓	
R65	Class 2*	Class 2*	Class 2	Class 2	
RCM	✓	✓	✓	<b>√</b>	
J845	Class 1	Class 1	Class 1	Class 1	
ROHS	✓	✓	~	✓	
REACH	✓	✓	✓	✓	
Transient Protection	✓	$\checkmark$	✓	✓	
Reverse Polaritiy	$\checkmark$	$\checkmark$	✓	✓	
Vibration Testing	IEC 60068-2-64, MIL-STD-810G.514.6.				
Lens Material	PC	PC	PC	PC	
Base Material	PC	PC	PC	PC	
LED Power	60 x 1.5W (81W)	60 x 1.5W (81W)	84 x 1.5W (126W)	168 x 1.5W (252W)	
IP Rating	IP67+IP69K	IP67+IP69K	IP67+IP69K	IP67+IP69K	
Dual Colour option	✓	$\checkmark$	✓	✓	
Synchronizable	6 units	6 units	6 units	6 units	
Flash Pattern Count	7	7	7	7	
Rotating Pattern	✓	✓	✓	✓	
High / Low power modes	✓	~	~	✓	
Mounting	Permanent	Magnetic	Permanent	Permanent	
Colours	Amber, Amber with clear lens, dual colour available				

\* Clear lens version only

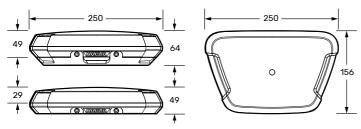
# WARNING



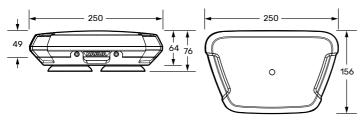
- **1** Do not look directly into L.E.Ds while in operation; may cause momentary blindness and/or eye damage.
- **2** It is not recommended to use magnetically mounted warning devices on vehicles in motion, suggest if need to use available bolt installation on vehicles in motion. Usage is at sole risk and responsibility of the user.

# DIMENSIONS

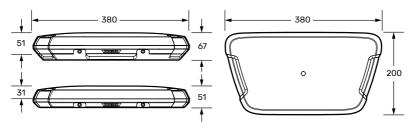
#### 85015A/AC



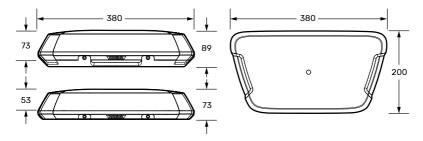
#### 85016A/AC



85017A/AC



#### 85019A/AC



### WARRANTY STATEMENT

#### Applicable only to product sold in Australia and New Zealand

Brown & Watson International Pty. Ltd. ("BWI") of 1500 Ferntree Gully Road, Knoxfield, Vic., telephone (03) 9730 6000, fax (03) 9730 6050, warrants that all products described in its current catalogue will under normal use and service be free of failures in material and workmanship for a period of one (1) year from the date of the original purchase by the customer as marked on the invoice (see elsewhere for specific warranty period). This warranty does not cover ordinary wear and tear, abuse, alteration of products or damage caused by the purchaser.

To make a warranty claim the consumer must deliver the product at their cost to the original place of purchase or to any other place which may be nominated by either BWI or the retailer from where the product was bought in order that a warranty assessment may be performed. The consumer must also deliver the original invoice evidencing the date and place of purchase together with an explanation in writing as to the nature of the claim.

If the claim is determined to be for a minor failure of the product then BWI reserves the right to repair or replace it at its discretion. If a major failure is determined the consumer will be entitled to a replacement or a refund as well as compensation for any other reasonably foreseeable loss or damage.

This warranty is in addition to any other rights or remedies that the consumer may have under State or Federal legislation.

#### **IMPORTANT NOTE**

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure, 7 year warranty excludes physical abuse, chemical abuse and mining applications.

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