NARVA®

AEROTECH®

HEAVY DUTY L.E.D STROBE/ROTATOR
SAE Class 1, ECE R65 Class 2

Instructions, Specifications & Warranty Details
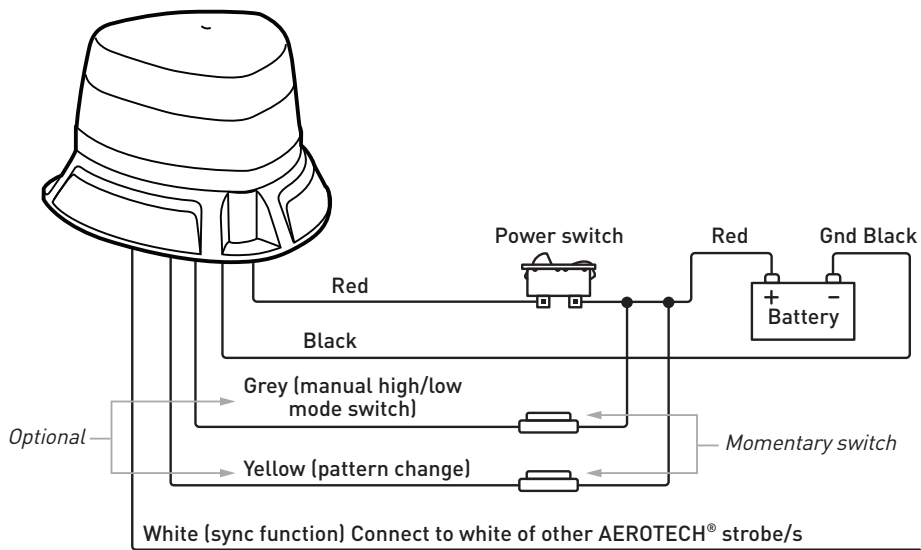
7 YEAR WARRANTY

P/No.s 85618A, 85620A, 85620B, 85620BC, 85620G, 85620R

INSTALLATION — FLANGE BASE

1 Prepare a suitable area on the vehicle's surface by wiping it clean to prevent scratching.

2 Drill a 10mm (3⁄8") 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 Choose mounting orientation – ensure the product is square. See page 4 for more information.

4 Using the supplied lamp gasket as a template, drill three 4.7mm (6⁄16") 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.

5 Route the wires as planned in step 2. Connect the red (+) wire to 10–33V DC and the black (-) wire to ground. Test.

Note: 63235BL can be used to either change pattern or power mode in one switch.

Note: To ensure that the light sensor works correctly don't cover the top of the strobe otherwise the senor will register as night mode. Then you will need to connect the override wire (Grey) to a momentary switch to allow them to switch to "High/Low power mode".

FEATURES

- High power LED's ensure AeroTech® exceeds SAE Class 1
- Aerodynamic shape for reduced wind noise in high speed applications
- Ultra-sonic sealing provides total protection against water/dust (IP67 + IP69K)
- Virtually unbreakable polycarbonate lens
- Diecast Aluminium Base
- Ambient light sensor with optional low and high power modes
- Four flash patterns including rotating
- Allows synchronisation of up to 6 units (Flange mount only)
- Reverse polarity and transient current protected
- Operating temperature: -30ºC – +60ºC
- Vibration and shock resistant – tested to IEC 60068-2-29, ISO 16750-3: 2007, ISO 16750-4:2010, MIL-STD-810G
- CISPR25 Class 3 approved for reduce RFI
- EMC, RoHS and REACH compliant

WIRING

RED: To 10–33V DC(+)
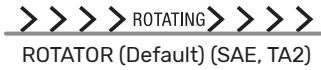**BLACK:** To chassis / ground (-)
YELLOW: Flash pattern selection (+)
WHITE: Synchronization. Connect together (3 bolt mount only)
GREY: Sensor Wire – Connect to constant DC Power to activate the light sensor, momentary connection will change between high and low power. If this wire is not connected the strobe will only function in high power.

FLASH PATTERNS

The unit comes with 4 user-selectable flash patterns plus steady on

〉〉〉〉 ROTATING 〉〉〉〉
ROTATOR (Default) (SAE, TA2)

DOUBLE FLASH (SAE, TA2)

〈〈〈〈 ROTATING 〈〈〈〈
CLOCKWISE ROTATOR (SAE)
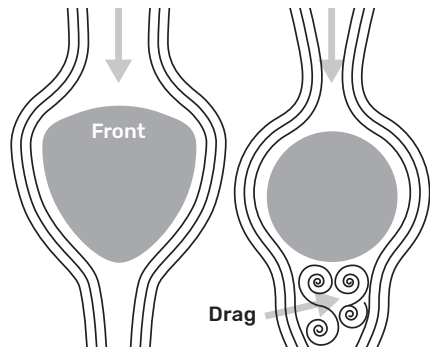
QUINT FLASH

STEADY ON

TA1 = ECE R65 Class 1 (Night)
TA2 = ECE R65 Class 2 (Day)

MOUNTING ORIENTATION

- The strobe is designed in an aerodynamic shape.
- The most aerodynamic orientation is to face the flat part forwards.
- Facing the point forwards is also an acceptable way to mount.
- The shape also provides increased horizontal illumination on the sides, again facing this forward is the best in most applications.
- However if fitted to the back of a vehicle facing the flat side backwards can provide increased visibility.
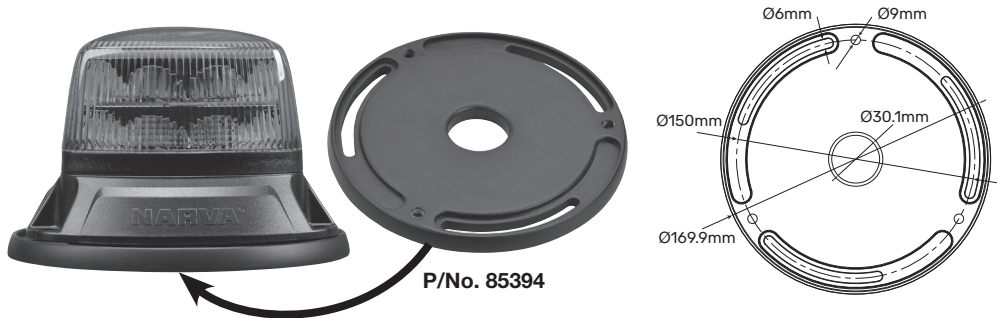
Front

Drag

TECHNICAL SPECIFICATIONS

	85618A	85620A
Operating Voltage	10–33V	10–33V
Current Draw @ 12V (Rotate, Flash)	1.1A, 2.4A	1.1A, 2.4A
Max LED Power	90W	108W
Temp Range (°C)	-30° – 60°	-30° – 60°
CISPR 25	3	3
R10	✓	✓
R65	Class 2	Class 2
RCM	✓	✓
SAE J845	Class 1	Class 1
RoHS	✓	✓
REACH	✓	✓
Transient Protection	✓	✓
Reverse Polarity	✓	✓
Lens Material	Polycarbonate	Polycarbonate
Base Material	Die Cast	Die Cast
IP Rating	IP67 + IP69K	IP67 + IP69K
Ambient Light Sensor	✓	✓
Synchronisable (Flange)	6 Units	6 Units
Flash Pattern Count	4 + Steady On	4 + Steady On
High/Low Power Modes	✓ (Low = 60%)	✓ (Low = 60%)
Mounting Diameter	Ø150mm	Ø150mm
Bolt Holes	3	3
Height (Flange)	100mm	160mm
Base Diameter	155mm	155mm

FITTING

When fitting strobe to existing mounting holes use the supplied adaptor plate.

1 Work out which orientation is required (point forward or flat forward).

2 Install the mounting plate in the slots around the edge ensuring the bolt holes for mounting the strobe are in the correct orientation.

3 Screw the beacon to the adaptor plate. The cable can go through the bottom or the cable exit on the strobe.

P/No. 85394

Ø6mm   Ø9mm

Ø150mm   Ø30.1mm

Ø169.9mm

PATTERN CHANGE

3 Bolt mount

1 Touch the yellow wire to positive power for less than 1 second to move to the next pattern.

2 If the operator desires to change the pattern after installation this can be achieved by adding an extra switch or using a 3 position switch (Off/On/Mom On, P/No. 63235BL).

3 To synchronize patterns connect the white wires of each strobe together.

AMBIENT LIGHT SENSOR FUNCTION

To activate the ambient light sensor connect the grey wire to +ve power.
The ambient light sensor dims the strobe to 60% of full output.

For manual switching between high and low power install a momentary switch which is is wired to the grey wire (+ve). Switch one time (<3sec)for low power, touch again for high power.

If the wire is not connected the strobe will function at full power all the time.

PARTS AVAILABLE

85394	Adaptor Plate T/S AeroTech® HD
85494	Universal Beacon Mounting Plate
63235BL	3 Position Beacon Switch

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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AUSTRALIA
Brown & Watson International Pty. Ltd.
Knoxfield Victoria 3180
Phone: (03) 9730 6000
Fax: (03) 9730 6050
National Toll Free: 1800 113 443

NEW ZEALAND OFFICE
Griffiths Equipment Ltd.
19 Bell Avenue,
Mount Wellington,
Auckland 1060, New Zealand
Phone: (09) 525 4575
Fax: (09) 579 1192

www.narva.com.au