

NARVA®

EX2 - L.E.D HYBRID PATTERN LIGHT BARS

Instructions & Specifications

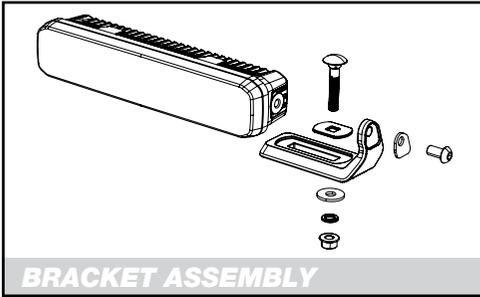
P/No. 72810, 72830, 72833, 72834, 72838, 72842, 72846, 72850



IMPORTANT SAFETY INFORMATION

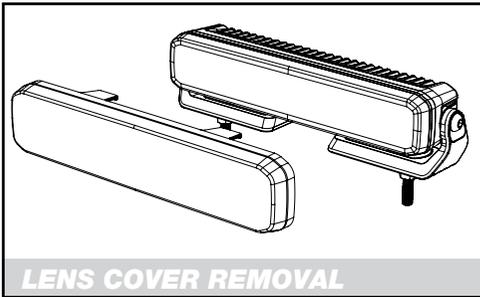
- Remove negative battery cable before installation
- Ensure lamps are fitted using the appropriate wiring harness or an equivalent auxiliary wiring systems
- Ensure the lamps are mounted securely to a solid surface on the vehicle or bullbar
- Cables connected to the lamp must not be subjected to wear or other damage
- Please refer to your local State Government for wiring requirements, as they can differ from state to state.
- Please consult a qualified Auto Electrician to adapt to your vehicle wiring.

SINGLE ROW LIGHT BAR MOUNTING

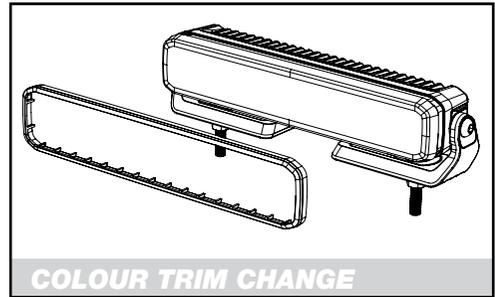


- 1 Each lamp is pre-assembled with stainless steel fasteners
- 2 Choose a solid surface on the vehicle or bullbar to mount the driving lights and secure the lamps by using the flat washer, spring washer with M10 nut

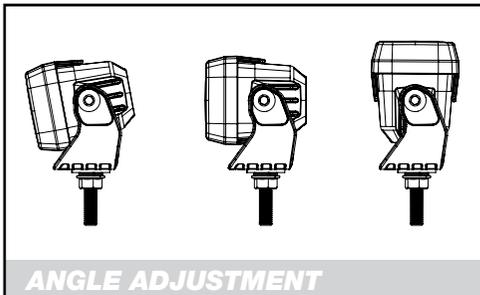
SINGLE ROW LIGHT BAR ASSEMBLY



- 1 Remove Lens Protector by un-clipping the side wings

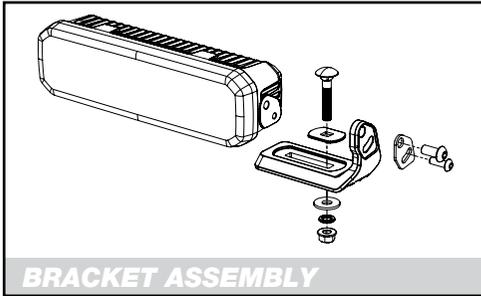


- 1 Remove the Colour trim by unclipping from the edge of the lamp
- 2 Change the Colour Trim and reassemble in reverse order



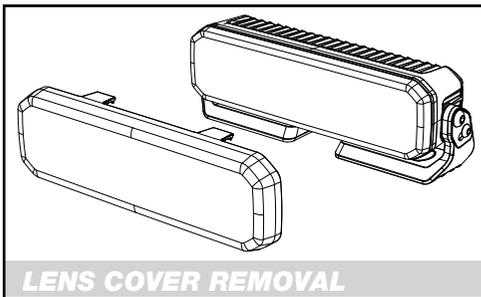
Loosen the nut and adjust lamp to the desired angle. Re-tighten nut

DOUBLE ROW LIGHT BAR MOUNTING

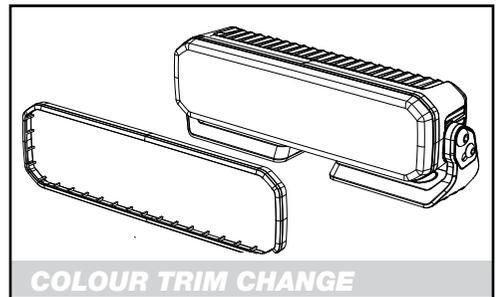


- 1 Each lamp is pre-assembled with stainless steel fasteners
- 2 Choose a solid surface on the vehicle or bullbar to mount the driving lights and secure the lamps by using the flat washer, spring washer with M10 nut

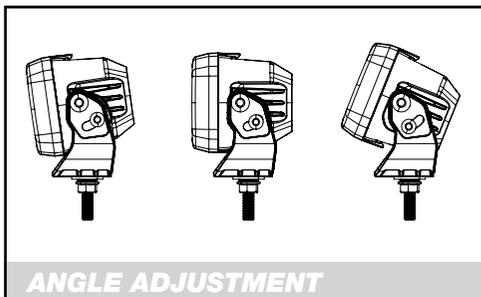
DOUBLE ROW LIGHT BAR ASSEMBLY



- 1 Remove Lens Protector by un-clipping the side wings



- 1 Remove the Colour trim by unclipping from the edge of the lamp
- 2 Change the Colour Trim and reassemble in reverse order



Loosen the nut and adjust lamp to the desired angle. Re-tighten nut

INSTALLING LICENSE PLATE BRACKET

Suits standard Australian, New Zealand and European licence plates

Suits 10" EX2 Single Row Light Bars (P/No. 72830 and 72831)

1. Remove existing licence plate from vehicles front bumper keeping the screws
2. Place the licence plate over the bracket to align the screws holes
3. Fit the licence plate and bracket to the vehicles front bumper using the original screws.
4. Install the EX2 light bar to the bracket using the hardware supplied with the lamp.

Fig 1, 2, 3 and 4 (below)

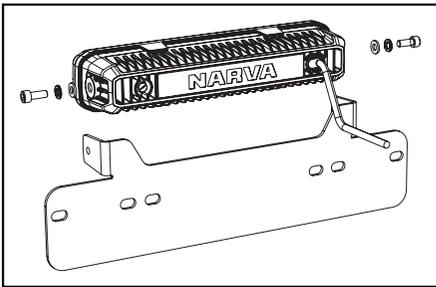


Fig. 1

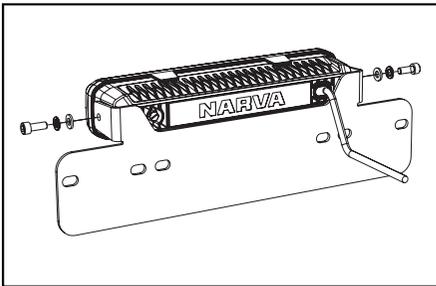


Fig. 2

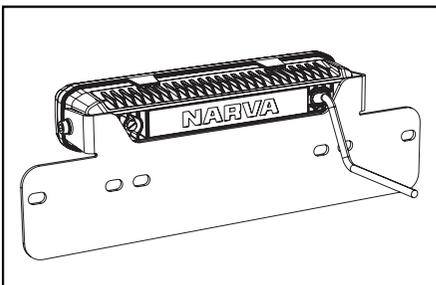


Fig. 3

WIRING INSTRUCTIONS

EX2 WIRING WITHOUT SWITCH

1. Join positive red lead from the light bar to cable size listed in the below table by crimping the ends together.
2. Terminate the cable to one end of the fuse holder and other end to the positive terminal of the battery.
3. Join negative black leads from the light bar to one cable size listed in the below table by crimping the ends together.
4. Terminate to negative terminal of the battery or vehicle ground chassis.
5. Join the yellow highbeam trigger wire to 3mm wire and connect it to the highbeam feed wire of the vehicle. For Negative switching refer to last drawing.
6. Ensure fuse and negative battery cable is connected.
Test the driving lights by turning the highbeams on.

EX2 WIRING WITH SWITCH

1. Join positive red lead from the light bar to cable size listed in the below table by crimping the ends together.
2. Terminate the cable to one end of the fuse holder and other end to the positive terminal of the battery.
3. Join negative black leads from the light bar to one cable size listed in the below table by crimping the ends together.
4. Terminate to negative terminal of the battery or vehicle ground chassis.
5. Join the yellow highbeam trigger wire to 3mm wire and connect it to the switch in cabin. Connect a 3mm wire from the switch to high beam feed wire of the vehicle. For Negative switching refer to last drawing.
6. Ensure fuse and negative battery cable is connected.
Test the driving lights by turning the highbeams and switch on.

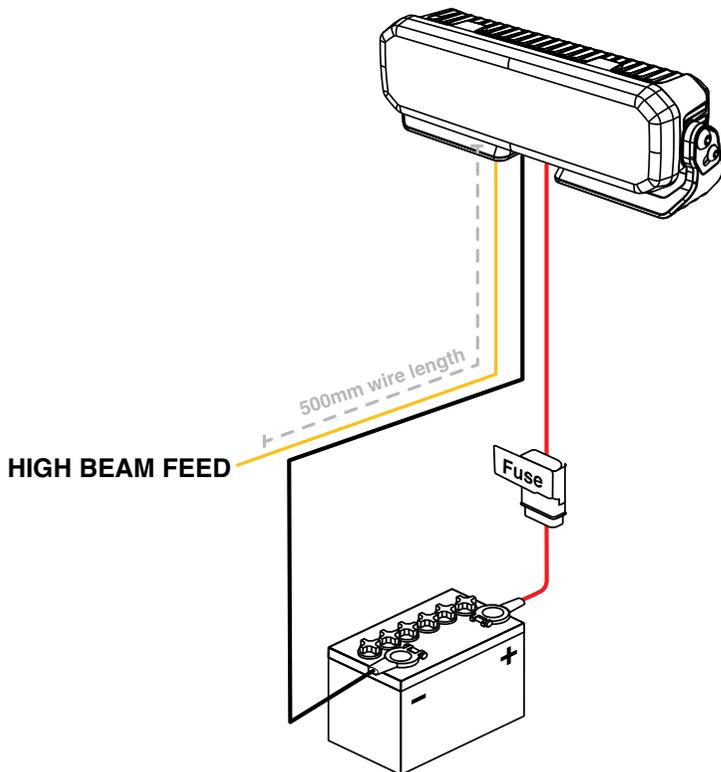
EX2 Light Bars come with 500mm flying lead

3" Double Row	3mm wire	4A fuse
10" Single Row	3mm wire	4A fuse
10" Double Row	3mm wire	5A fuse
20" Single Row	3mm wire	7.5A fuse
20" Double Row	4mm wire	10A fuse
30" Single Row	4mm wire	10A fuse
30" Double Row	4mm wire	15A fuse

Light Bars must dip with High Beam to meet ADR requirements. Please refer to your local State Government for wiring requirements, as they can differ from state to state. Please consult a qualified Auto Electrician to adapt to your vehicle wiring.

LAMP WIRING (WITHOUT SWITCH)

DIAGRAM A



RED - POSITIVE

BLACK - NEGATIVE

YELLOW - HIGH BEAM FEED

***Fuse not included (refer to table)**

***Length of wires for diagram purposes only**

No relay required due to internal switching technology (patent pending)

Each EX2 Light Bar comes with 500mm flying lead wire

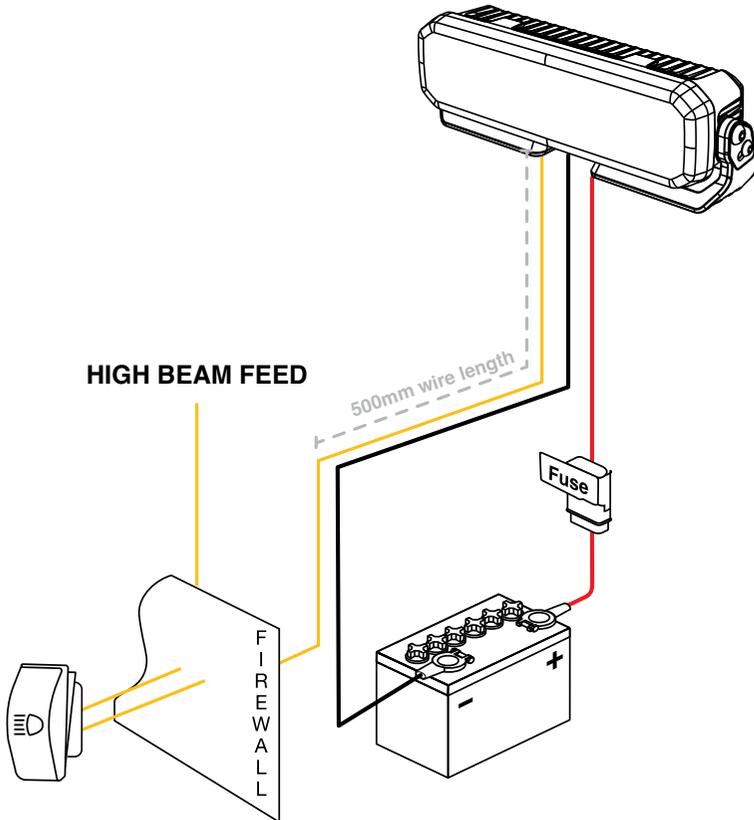
Note: Light Bars must dip with High Beam to meet ADR requirements.

Please refer to your local State Government for wiring requirements, as they can differ from state to state.

Please consult a qualified Auto Electrician to adapt to your vehicle wiring.

LAMP WIRING (WITH SWITCH)

DIAGRAM B



RED - POSITIVE

BLACK - NEGATIVE

YELLOW - HIGH BEAM FEED

***Fuse not included (refer to table)**

***Length of wires for diagram purposes only**

No relay required due to internal switching technology (patent pending)

Each EX2 Light Bar comes with 500mm flying lead wire

Please consult a qualified Auto Electrician to adapt to your vehicle wiring.

TECHNICAL SPECIFICATIONS

Series Name:	10" Single Row	10" Double Row
Voltage:	12/24 dual voltage with reverse polarity protection	12/24 dual voltage with reverse polarity protection
LEDs:	8 x 5W Cree LEDs	16x 5W Cree LEDs
Housing & Bracket	Aluminium pressure die-cast & extra tough glass reinforced polymer	Aluminium pressure die-cast & extra tough glass reinforced polymer
Beam Type	Hybrid beam	Hybrid beam
Lenses	Hardcoated polycarbonate	Hardcoated polycarbonate
Colour Temperature	5700°K	5700°K
Current Draw (@13.5V/@28V)	1.93/0.99	3.7/1.78

Series Name:	20" Single Row	20" Double Row
Voltage:	12/24 dual voltage with reverse polarity protection	12/24 dual voltage with reverse polarity protection
LEDs:	18 x 5W Cree LEDs	36 x 5W Cree LEDs
Housing & Bracket	Aluminium pressure diecast & extra tough glass reinforced polymer	Aluminium pressure die-cast & extra tough glass reinforced polymer
Beam Type	Hybrid beam	Hybrid beam
Lenses	Hardcoated polycarbonate	Hardcoated polycarbonate
Colour Temperature	5700°K	5700°K
Current Draw (@13.5V/@28V)	4.4/2.2	7.2/3.5

Series Name:	30" Single Row	30" Double Row
Voltage:	12/24 dual voltage with reverse polarity protection	12/24 dual voltage with reverse polarity protection
LEDs:	28 x 5W Cree LEDs	56 x 5W Cree LEDs
Housing & Bracket	Aluminium pressure diecast & extra tough glass reinforced polymer	Aluminium pressure diecast & extra tough glass reinforced polymer
Beam Type	Hybrid beam	Hybrid beam
Lenses	Hardcoated polycarbonate	Hardcoated polycarbonate
Colour Temperature	5700°K	5700°K
Current Draw (@13.5V/@28V)	7.1/3.45	11.1/5.3

Series Name:	3" Double Row
Voltage:	12/24 dual voltage with reverse polarity protection
LEDs:	4 x 5W Cree LEDs
Housing & Bracket	Aluminium pressure die-cast & extra tough glass reinforced polymer
Beam Type	Hybrid beam
Lenses	Hardcoated polycarbonate
Colour Temperature	5700°K
Current Draw (@13.5V/@28V)	1.11/0.53

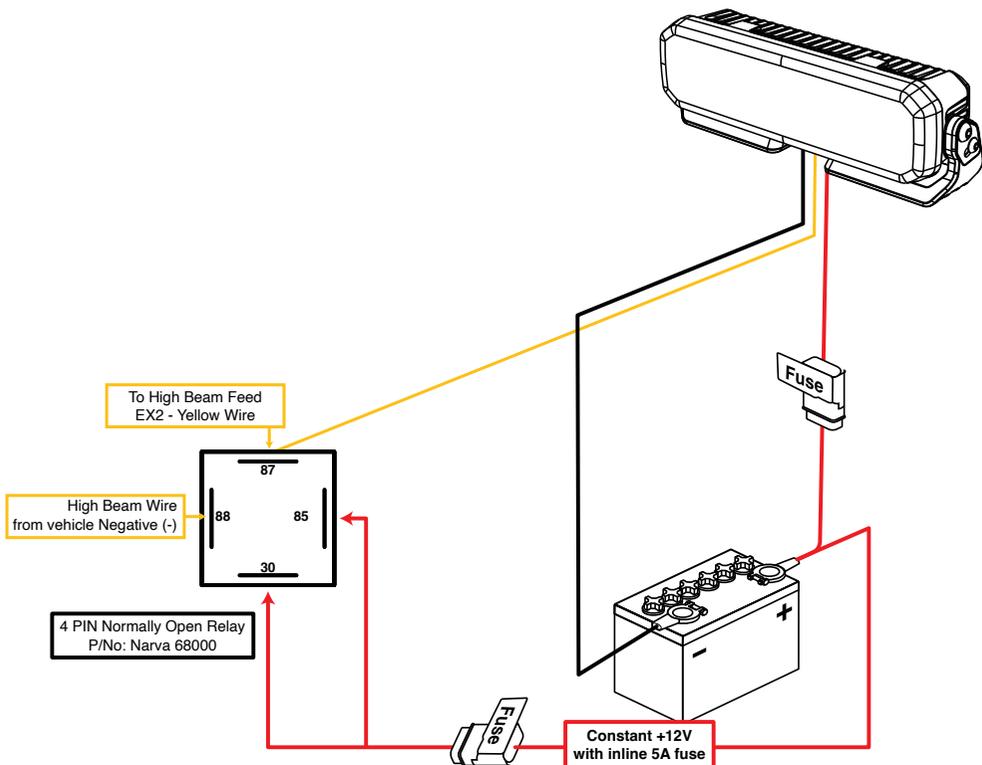
PARTS AVAILABLE

	10" EX2 Light Bar Single Row	10" EX2 Light Bar Double Row	20" EX2 Light Bar Single Row	20" EX2 Light Bar Double Row
Volcano (Red)	C 72142-RD	C 72160-RD	C 72170-RD	C 72180-RD
Juiced (Orange)	C 72142-OE	C 72160-OE	C 72170-OE	C 72180-OE
Sunburst (Yellow)	C 72142-YW	C 72160-YW	C 72170-YW	C 72180-YW
Hyper (Green)	C 72142-GN	C 72160-GN	C 72170-GN	C 72180-GN
Electric (Blue)	C 72142-BE	C 72160-BE	C 72170-BE	C 72180-BE
Bubblegum (Pink)	C 72142-PK	C 72160-PK	C 72170-PK	C 72180-PK
Slate (Grey)	C 72142-GY	C 72160-GY	C 72170-GY	C 72180-GY
Stealth (Black)	C 72142-BK	C 72160-BK	C 72170-BK	C 72180-BK

	30" EX2 Light Bar Single Row	30" EX2 Light Bar Double Row	3" EX2 Pod Light Double Row
Volcano (Red)	C 72142-RD	C 72160-RD	C 72170-RD
Juiced (Orange)	C 72142-OE	C 72160-OE	C 72170-OE
Sunburst (Yellow)	C 72142-YW	C 72160-YW	C 72170-YW
Hyper (Green)	C 72142-GN	C 72160-GN	C 72170-GN
Electric (Blue)	C 72142-BE	C 72160-BE	C 72170-BE
Bubblegum (Pink)	C 72142-PK	C 72160-PK	C 72170-PK
Slate (Grey)	C 72142-GY	C 72160-GY	C 72170-GY
Stealth (Black)	C 72142-BK	C 72160-BK	C 72170-BK

FOR NEGATIVE SWITCHED VEHICLES ONLY

1. Using a 4PIN normally open relay (Narva P/no 68000), connect PIN 30 and PIN 85 to a constant +12V source with 5AMP inline fuse.
2. Connect negative (-) high beam wire from vehicle to Pin 86.
3. Connect Pin 87 to EX2 High beam feed



RED - POSITIVE

BLACK - NEGATIVE

YELLOW - HIGH BEAM FEED

*Fuse not included (refer to table)

*Length of wires for diagram purposes only

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WARRANTY

Applicable only to product sold in Australia

Brown & Watson International Pty Ltd of 1500 Ferntree Gully Road, Knoxfield, Vic., telephone (03) 9730 6000, fax (03) 9730 6050, warrants that all products described in its current catalogue (save and except for all bulbs and lenses whether made of glass or some other substance) will under normal use and service be free of failures in material and workmanship for a period of one (1) year (unless this period has been extended as indicated elsewhere) from the date of the original purchase by the consumer as marked on the invoice. This warranty does not cover ordinary wear and tear, abuse, alteration of products or damage caused by the consumer.

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.

In the event that 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. In the event that 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.

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