



# NARVA EX2-R Hybrid Pattern Light Bars Instruction Manual

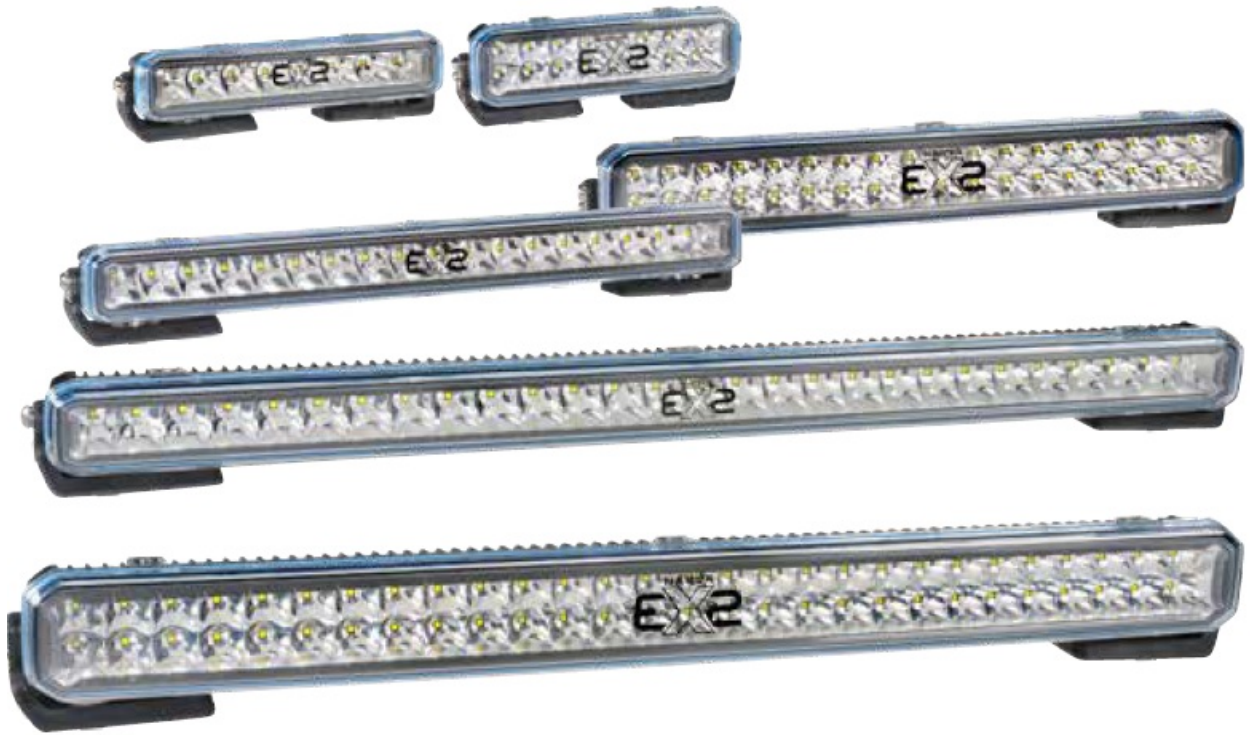
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# NARVA®

**NARVA EX2-R Hybrid Pattern Light Bars**



## **Specifications**

- Product Name: EX2R – L.E.D HYBRID PATTERN LIGHT BARS
- Model Numbers: P/No. 72811, 72831, 72835, 72839, 72843, 72844, 72847, 72851, 72852

## **SINGLE ROW LIGHT BAR MOUNTING**

1. Each lamp comes 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 using the flat washer, spring washer with M10 nut.

## **SINGLE ROW LIGHT BAR ASSEMBLY**

1. To remove the Lens Protector, un-clip the side wings.

## **COLOUR TRIM CHANGE**

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

## **ANGLE ADJUSTMENT**

1. Loosen the nut to adjust the lamp to the desired angle.
2. Re-tighten the nut after adjusting.

## **DOUBLE ROW LIGHT BAR MOUNTING**

1. Each lamp comes 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 using the flat washer, spring washer with M10 nut.

## **DOUBLE ROW LIGHT BAR ASSEMBLY**

1. To remove the Lens Protector, un-clip the side wings.

## **EX2R – L.E.D HYBRID PATTERN LIGHT BARS**

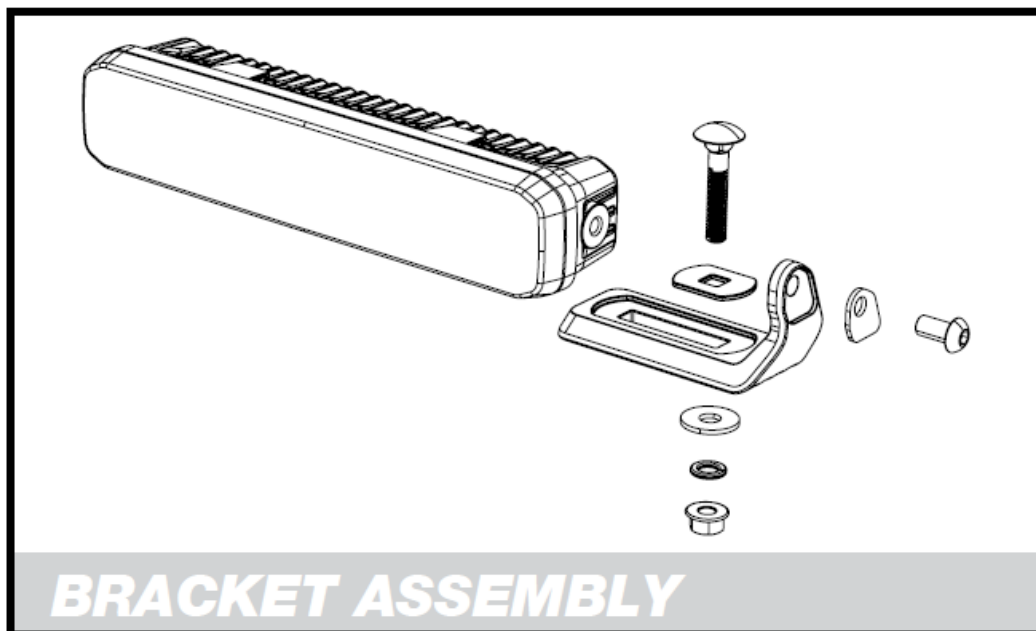
### **Instructions & Specifications**

P/No. 72811, 72831, 72835, 72839, 72843, 72844, 72847, 72851, 72852

### **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.

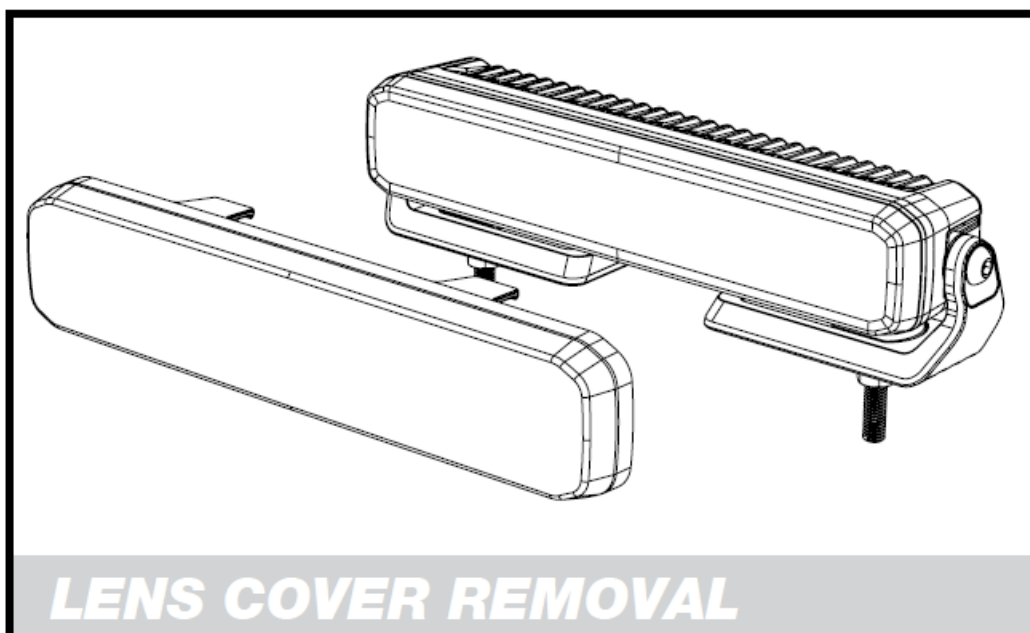
## **SINGLE ROW LIGHT BAR MOUNTING**



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

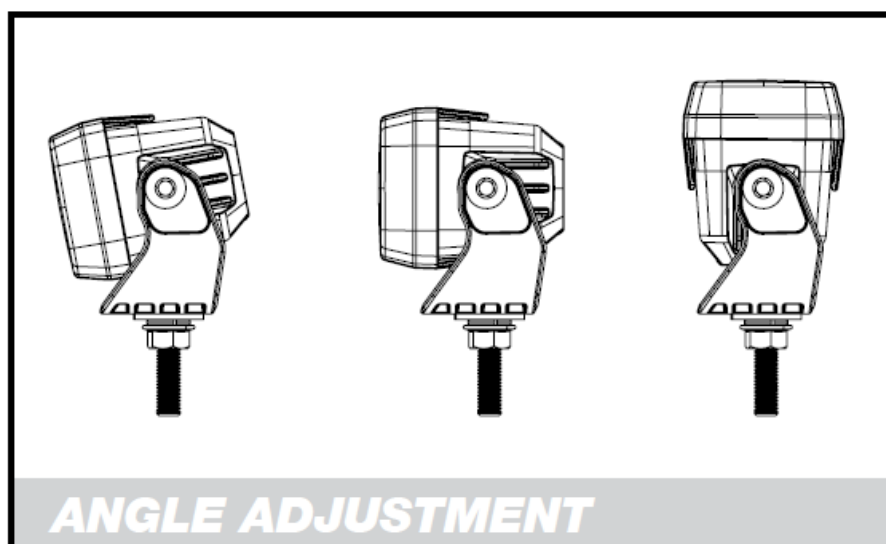
## **SINGLE ROW LIGHT BAR ASSEMBLY**

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

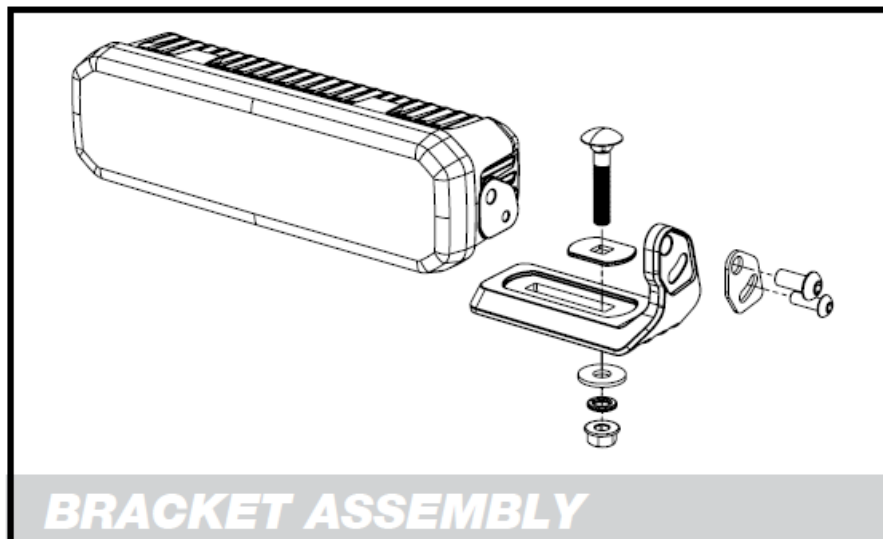


## **DOUBLE ROW LIGHT BAR MOUNTING**

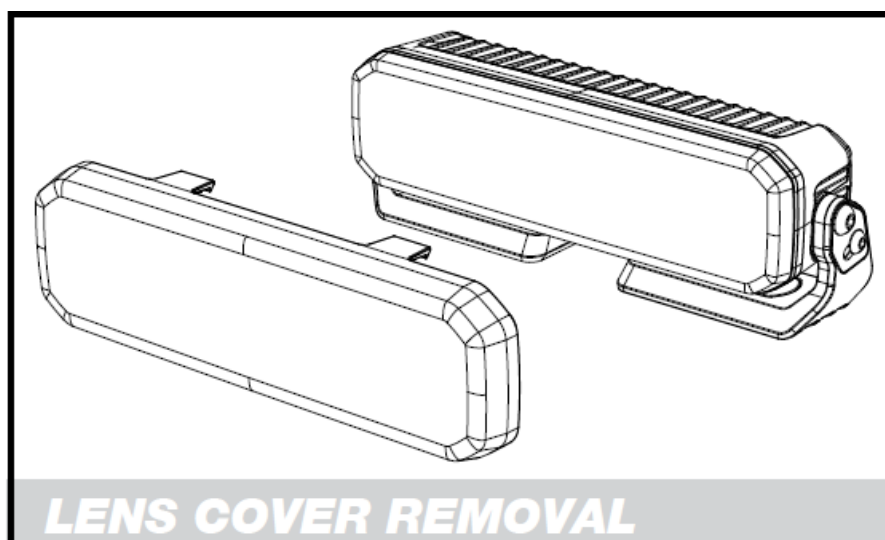
1. Each lamp is pre-assembled with stainless steel fasteners
2. Choose a solid surface on the vehicle or bullbar to mount the driving lights and secure the lamps by using the flat washer, spring washer with M10 nut

## **DOUBLE ROW LIGHT BAR ASSEMBLY**

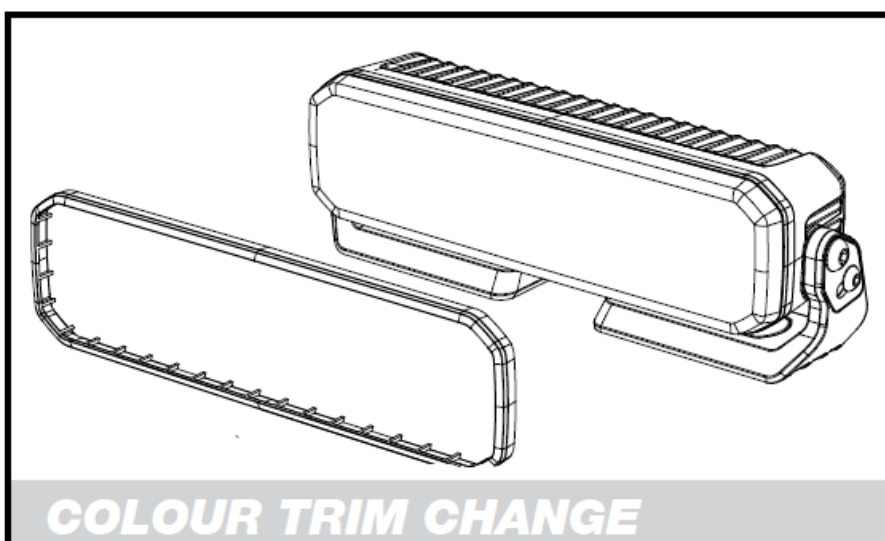
1. Remove Lens Protector by un-clipping the side wings



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



## 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.
7. Test the driving lights by turning the highbeams and switch on.

## **WHITE POSITION LIGHT WIRING**

ADR approved white position lights can be used without EX2-R Bluetooth module by connecting the supplied round 5pin female connector flying lead with brown wire to round 5pin male connector from EX2-R driving lights. Connect the brown wire using 2.5mm wire to ignition source or parking lights. Test the white position lights by turning on parking lights or ignition.

## **EX2-R BLUETOOTH MODULE WIRING (P/NO. 74426)**

1. Connect the round 5pin female connector from controller to round 5pin male connector from EX2R driving light.  
Make sure the weatherproof 5 pin connectors are securely fastened and route cables away from engine. The connectors are directional, make sure to connect to the correct position and fasten each end of the cap.
2. Connect the red positive fused power lead to ignition source or parking lights.  
Do not connect directly to battery as this will keep the position lights and Bluetooth on at all times.
3. Connect the black negative power lead to vehicle ground chassis or battery negative terminal Refer to EX2 Bluetooth module instructions on how to use.

EX2-R (P/no 72811, 72831, 72835, 72839, 72843, 72847 and 72851) Light bar come with 2000mm power flying lead and 1000mm RGB cable.

EX2-R (P/no 72844 and 72852) Light bar come with 500mm power lead + 3PIN DT +1650mm fused power lead harness and 1000mm RGB cable.

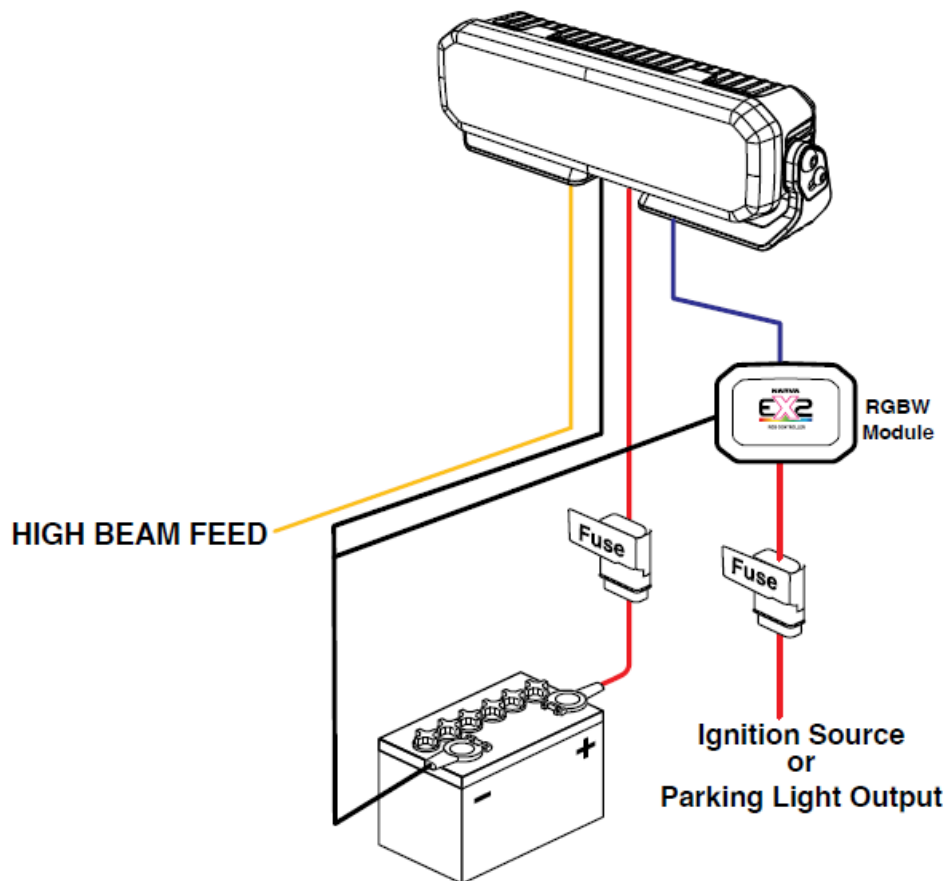
|                |          |           |
|----------------|----------|-----------|
| 3" Double Row  | 3mm wire | 4A fuse   |
| 10" Single Row | 3mm wire | 4A fuse   |
| 10" Double Row | 3mm wire | 5A fuse   |
| 20" Single Row | 3mm wire | 7.5A fuse |
| 20" Double Row | 4mm wire | 10A fuse  |
| 30" Single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

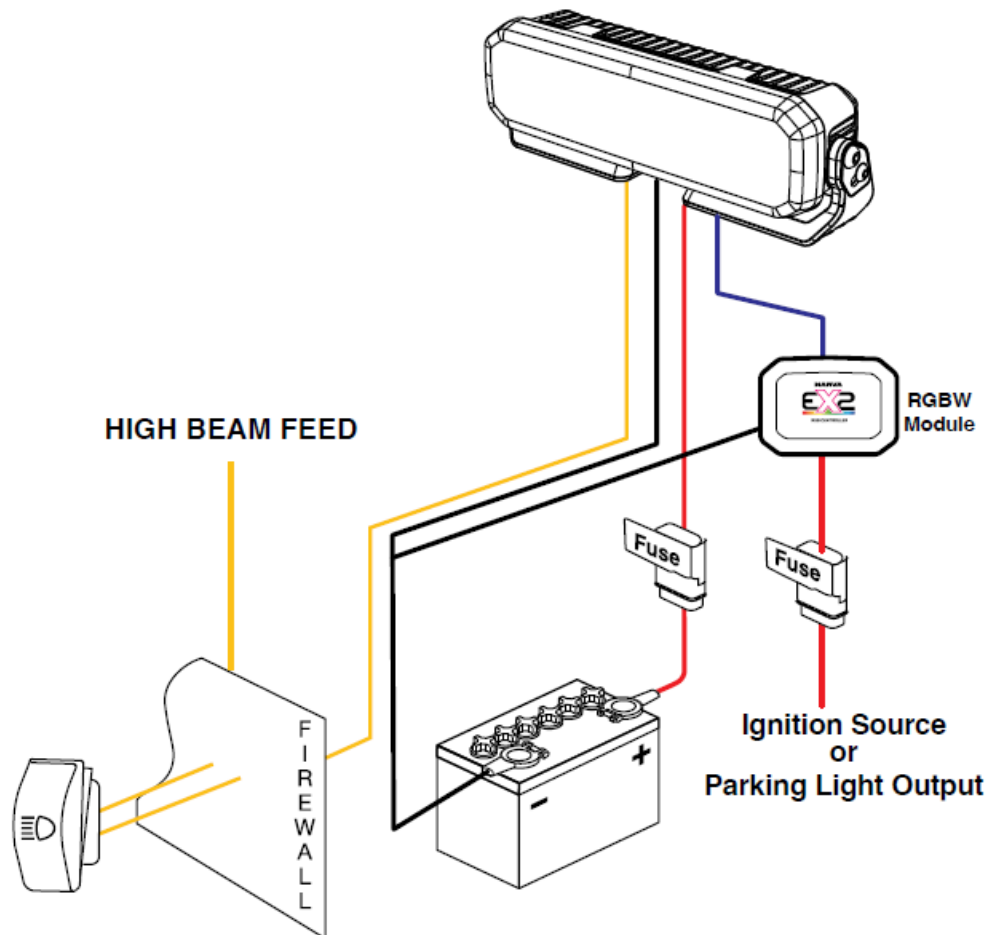
- No relay required due to internal switching technology (patent pending)

- Each EX2-R Light Bar comes with 2000mm 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-R Light Bar comes with 2000mm flying lead wire
- Please consult a qualified Auto Electrician to adapt to your vehicle wiring.

## TECHNICAL SPECIFICATIONS



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

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

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

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

## PARTS AVAILABLE

## COLOUR TRIMS

|                   | <b>10" EX2 Light Bar<br/>Single Row</b> | <b>10" EX2 Light Bar<br/>Double Row</b> | <b>20" EX2 Light Bar<br/>Single Row</b> | <b>20" EX2 Light Bar<br/>Double Row</b> |
|-------------------|---|---|---|---|
| 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                              |
|                   |   |   |   |   |
|                   | <b>30" EX2 Light Bar<br/>Single Row</b> | <b>30" EX2 Light Bar<br/>Double Row</b> | <b>3" EX2 Pod Light D<br/>ouble Row</b> |   |
| 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                              |   |
|                   |   |   |   |   |

## SPARE PARTS

|       |                              |
|-------|------------------------------|
| 72892 | 10" Single Row LP Bracket    |
| 74426 | EX2 RGB Bluetooth Controller |
| 72262 | 2" Single Row Tube Mount     |
| 72263 | 2.5" Single Row Tube Mount   |
| 72264 | 3" Single Row Tube Mount     |

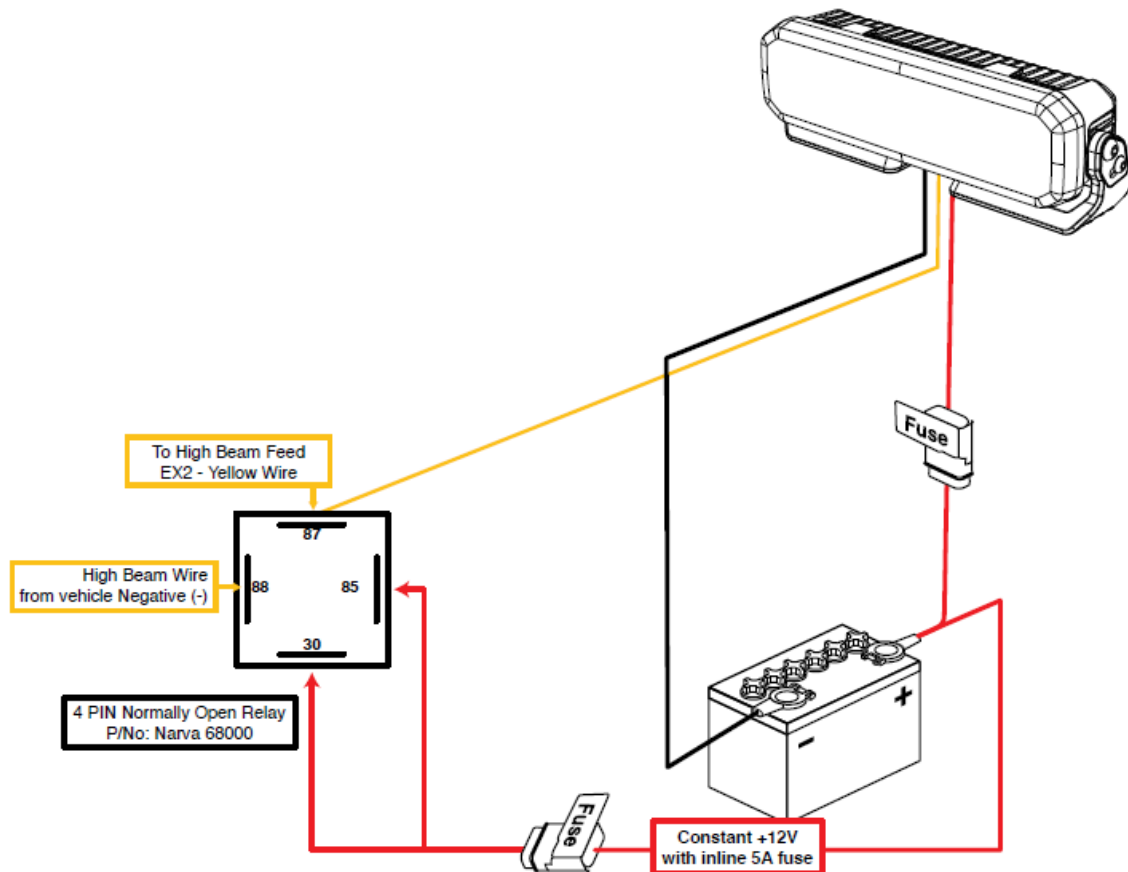
|         |                                 |
|---------|---------------------------------|
| 72266   | 2" Double Row Tube Mount        |
| 72267   | 2.5" Double Row Tube Mount      |
| 72268   | 3" Double Row Tube Mount        |
| 72241A  | 3" Double Row Amber Lens Cover  |
| 72241BL | 3" Double Row Clear Lens Cover  |
| 72241BK | 3" Double Row Black Lens Cover  |
| 72242A  | 10" Single Row Amber Lens Cover |
| 72242BL | 10" Single Row Clear Lens Cover |
| 72242BK | 10" Single Row Black Lens Cover |
| 72243A  | 10" Double Row Amber Lens Cover |
| 72243BL | 10" Double Row Clear Lens Cover |
| 72243BK | 10" Double Row Black Lens Cover |
| 72244A  | 20" Single Row Amber Lens Cover |
| 72244BL | 20" Single Row Clear Lens Cover |
| 72244BK | 20" Single Row Black Lens Cover |
| 72245A  | 20" Double Row Amber Lens Cover |
| 72245BL | 20" Double Row Clear Lens Cover |
| 72245BK | 20" Double Row Black Lens Cover |
| 72246A  | 30" Single Row Amber Lens Cover |
| 72246BL | 30" Single Row Clear Lens Cover |
| 72246BK | 30" Single Row Black Lens Cover |
| 72247A  | 30" Double Row Amber Lens Cover |
| 72247BL | 30" Double Row Clear Lens Cover |
| 72247BK | 30" Double Row Black Lens Cover |

## 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

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RED – POSITIVE

- BLACK – NEGATIVE
- Y ELLOW – HIGH BEAM FEED

\* Fuse not included (refer to table)

\* Length of wires for diagram purposes only

## 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 NOT

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.

### Distributed by:

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## Documents / Resources

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