

## WARRANTY STATEMENT

### Applicable only to product sold in Australia

Brown & Watson International Pty Ltd of 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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# NARVA®



## INSTRUCTION & SPECIFICATIONS SHEET

**P/No's. 72104 and 72106**

## L.E.D HEADLAMPS



P/No. 72104



P/No. 72106

### IMPORTANT SAFETY INFORMATION

Please read these instructions carefully before installation.

Installation should be performed by a qualified automotive electrician or someone with a strong understanding of automotive electrical systems.

This product is intended for use as the vehicles primary headlamps and should be mounted to the vehicle facing forward. Applications outside this scope may void the product warranty.

Remove the vehicle's negative battery cable before commencing any electrical wiring.

Any wires connected to the positive terminal of the vehicles battery should be fused within 300mm of the terminal.

The headlamps are supplied with a H4 connector and AMP connector (DRL and Position). It is recommended you do not remove the connector as this could damage the sealing of the wires.

Do not remove the breather vent. Doing so could allow water into the headlamps and void the product warranty.

Cables connected to the headlamps must not be subjected to wear or other damage. Any additional wiring should be secured to the vehicle every 300mm.

We recommend cleaning with soapy water and rinsing with a hose. Some harsh cleaning products may affect the materials and should be avoided.

## ADR FITTING INSTRUCTIONS

ORIENTATION: Forward facing with the 'TOP' marking pointing upwards. High/Low beam lamps closest to the vehicles outer edge.

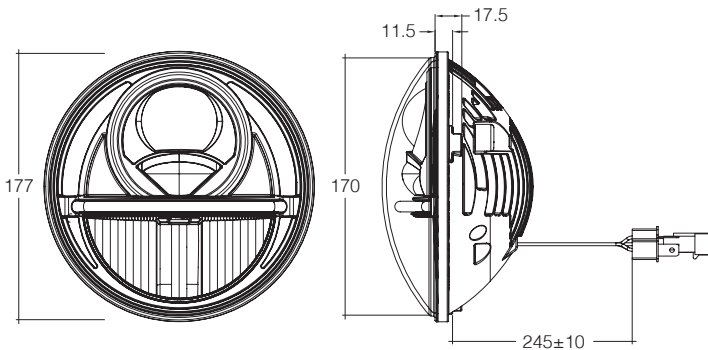
APPLICATION: ADR 13/00

COMPLIES WITH: ADR 46/00 (Headlamps), ADR 76/00 (DRL) and ADR 49/00 (Position).

## FEATURES

- Direct replacement for halogen inserts – includes H4 connector for easy retrofit
- Developed and tested for OEM's (Original Equipment Manufacturers)
- Superior white LED light performance using the latest in LED technology
- Build in ATS (Active Thermal Management) to protect the lamp in extreme conditions
- Extreme shock and vibration resistance (tested to ISO 16750-3)
- Fully sealed and weatherproof (rated to IP68 and IP69K)
- Styled and finished in 'Black Chrome'

## DIMENSIONS



## INSTALLATION

1. Ensure vehicle is turned off and disconnect the batteries negative/earth cable.
2. Remove existing headlamp from bumper or bucket (refer to owners/workshop manual).
3. Disconnect H4 connector and lead from existing headlamp.
4. Plug the H4 connector into the Narva LED headlamp connector (H4 male blade connector).
  - a. Connect the grey wire from the AMP connector to battery negative (-) or vehicle earth.
  - b. Connect the white wire from the AMP connector to an ignition switched power source (+). A relay is recommended for most applications.
  - c. Connect the blue wire from the AMP connector to the vehicles position lights (+).
5. Install the LED headlamp into the bumper or bucket. Ensure it is securely fastened.
6. Reconnect the batteries negative/earth cable.
7. Test all functions of the headlamp are working correctly and adjust the headlamps beam if necessary.

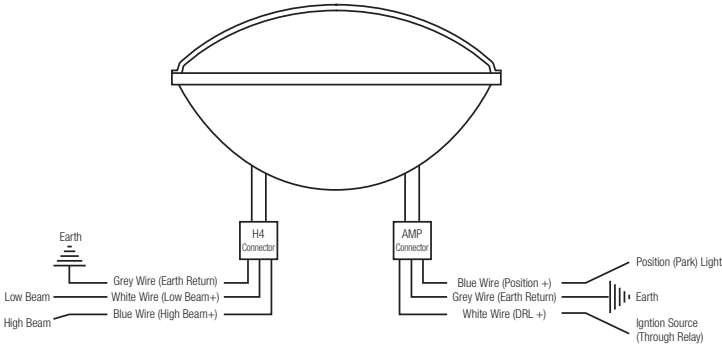
## LAMP WIRING AND WIRING DIAGRAM

Low/High	
Grey	Earth Return
White	Low Beam +
Blue	High Beam +

H4 connector

DRL/Position	
Grey	Earth Return
White	DRL +
Blue	Position +

AMP connector



## TECHNICAL SPECIFICATIONS

**Input Voltage:** 9–33V

**LED's:** Osram

**Colour Temperature:** 6000K

**Lens:** Hard-coated Polycarbonate

**Reflector:** Polycarbonate

**Heatsink:** Aluminium Die Cast

**Protection:** Reverse Polarity Protection, Overvoltage Protection, Active Thermal Management

**IP Rating:** IP68 and IP69K

**Operating Temperature:** -40°C - 80°C

**Weight:** 1030g

**Approvals:** ECE R7, R87 and R112

**EMC:** ECE R10 (CISPR 25 class 4)

### Power:

Function	Power
Low Beam	25W
High Beam	34W
DRL	9W
Position	1.2W

### Current Draw:

72104 Low/High Beam				72106 High Beam	
Function	12V	24V	12V	24V	
Low Beam	2.6A	1.3A	N/A	N/A	
High Beam	1.9A	0.9A	2.7A	1.3A	
DRL	0.7A	0.3A	0.7A	0.3A	
Position	0.2A	0.1A	0.2A	0.1A	

## PARTS AVAILABLE

**72104** 9-33V 7" (178mm) LED Driving Lamp Insert (High/Low Beam, DRL and Position Functions)

**72106** 9-33V 7" (178mm) LED Driving Lamp Insert (High Beam, DRL and Position Functions)