


INSTRUCTION SHEET
for: **2TA 959 030-10x / 2317**



ADR - APPLICATION AND
MOUNTING INSTRUCTIONS

Jumbo LED *Multivolt* (9-33 VOLT) Module
STOP / REAR POSITION LAMP

The **Multivolt** LED module is designed to be retro-fitted to the following lamps;
HELLA Part Numbers 2319, 2402, 2403, 2416 and 2417.
Additionally, modules can be fitted to Designline lamps (HELLA Part Numbers 2320, 2422, 2423, 2424)
by using the spacers and screws provided.
This module may also be used to upgrade similar existing products.
The **Multivolt** LED modules are designed to operate on input voltages from 9 to 33 volts.

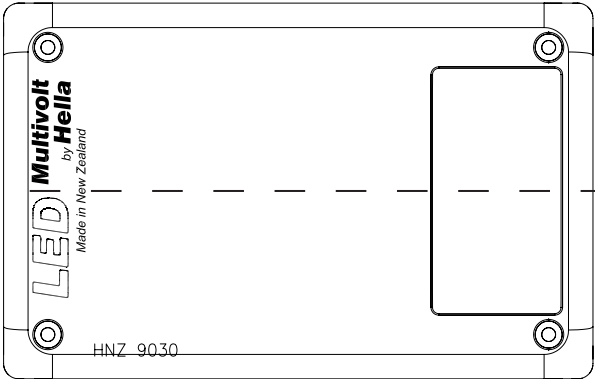
Lens Marking and ADR 13/00 Installation requirements

This lamp module, identified by lens marking HNZ 9030, and red lens was manufactured to comply with:
ADR 49/00 Rear position (Side) / Stop Lamps
ADR 47/00 Reflex Reflector


- A tolerance of +/-3 degrees applies on all mounting details.
- Lamp module mounting plane must be vertical to the ground
- Lamp module reference axis must be parallel to the vehicle longitudinal axis
- Lamp module centre line may be horizontal or vertical to the ground (approved in either direction)
- Lamp module must be visible from 45° inboard and 80° outboard, as well as from 15° above and below the horizontal axis
- Lamp module should be mounted with reflex reflector closest to the outboard edge of the vehicle
Please refer to ADR 13/00 for more details.

Lamp module mounting plane


Centre line



Reference Axis




LENS IDENTIFICATION NUMBER: HNZ 9030REFLEX REFLECTOR IDENTIFICATION NUMBER: 013051

CATALOGUE NUMBER	ENGINEERING NUMBER	CRN NUMBER	COMPLIANCE NUMBER	ADR 51/00 GLOBE	ADR APPLICABLE
2317	2TA 959 030-10	42577 / 42579 42578 / 42582 22948	8-2317-H-17 8-2317-V-17	N/A LED	ADR 49/00 ADR 47/00
AMENDMENTS				ADR COMPLIANCE VERIFIED 	ISSUE DATE: 9/1999
05/2010	07/2010				
HELLA-New Zealand Limited, Pakuranga					

959 149-05 / 05.19

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Lamp Module Mounting Instructions

Remove lens and gasket from existing tail lamp.

For lamp Part Numbers:- 2319, 2416, 2417

- Remove wiring terminals (Stop, Tail, Earth)
- Remove bulbholder by removing centre attachment screw
- Attach cables from LED module to existing wiring. **See Wiring Colour Coding below.**

For lamp Part Numbers:- 2402, 2403

- Bend the bulbholder legs towards housing, or remove completely to allow room for the LED module
- Attach cables from LED module to existing wiring. **See Wiring Colour Coding below.**

For lamp Part Numbers:- 2320, 2422, 2423, 2424

- Remove bulbholder and hardware from housing
- The longer screws and spacers provided ensure correct fitting for these Designline housings
- Place the spacers on the screw bosses in the housing
- Attach cables from LED module to existing wiring. **See Wiring Colour Coding below.**

Notes:

- HELLA recommends wire connections be soldered, and heat shrink tubing applied to seal the joint.
- Designline lamp housings have a built in drain hole; for all other lamps ensure there is a clear drain hole at the lowest point in the housing to prevent possible water build up
- Ensure there are no sharp edges to cut or chafe the cable
- Test all lamp functions
- Mount LED module into lamp housing with new gasket and existing screws, and fit screw caps

Please note: This lamp contains a patented hydrophobic breathing system to equalise air pressure inside the lamp. The module is sealed against moisture and dust but not designed for prolonged submersion.

Wiring Colour Coding

Note: Lamp is polarity conscious. The reversal of the polarity will not damage this product but will inhibit its function.

Colour	Connect to	Power Consumption
White	Earth (-)	-
Red	Stop (+)	6 watts
Brown	Tail (+)	1 watt

Note: Lamp must be protected by a fuse rated at 5 amperes maximum.

FIT AND FORGET - BY DESIGN


Congratulations, the product you have selected comes from **HELLA** - a world leader in LED lighting design.

Following the launch of the first LED automotive signal lamps in 1990, **HELLA** Design and Innovation continues to set new standards. **HELLA** innovative solutions have been incorporated into millions of lamps, engineered and tested to the most stringent standards, to suit the most demanding environmental conditions.


The cornerstone to the success of our products is our no compromise **Fit and Forget - by Design** philosophy which is incorporated into every step of the product life cycle.

In a world consuming finite resources at an ever faster rate, **Fit and Forget - by Design** is the right environmental choice that also makes perfect economic sense to customers that consider the total life cycle Cost of Ownership.

For general comments about HELLA's product please contact us on E-mail at techfeedback@hella.co.nz



Important Notes for the Installer
and Vehicle Owner



Introduction

Multivolt LED signal and marker lamps offer many advantages over conventional bulb lamps. Significantly reduced power consumption, ultra long life and high tolerance to shock and vibration make the LED lamps the ideal choice for the commercial transport industry, where the cost of ownership versus the initial purchase price of the product is well understood.

Compatibility to existing electrical systems

It is important for the installer to ascertain the compatibility of the low power consumption LED lamps with the electrical and/or electronic systems of the complete vehicle, including trailers. In most cases the reduced power consumption is beneficial by imposing less demands on the entire electrical system.

For certain functions some electrical systems rely on a set power consumption for monitoring whether, for example, a trailer is connected.

Electromagnetic Compatibility (EMC)

Multivolt LED lamps are electronic devices. The electrical circuits contain components that suppress possible interference, both emission as well as susceptibility, to the technical requirements for the application of the Regulatory Compliance Mark (RCM).

To avoid false signals or interference, it is recommended practice that the installer always ascertains that a good earth is provided to potentially sensitive equipment such as the ECU's of the ABS, TCS, or Tachographs etc. If this cannot be assured, a direct earth path should be provided.

Protection against damage due to voltage spikes

Multivolt LED CT lamps are protected against damage from positive voltage spikes caused by events such as load dump conditions up to severity level 3 of ISO 7637-2 and contains a Transient Voltage Suppressor (TVS) designed to withstand a pulse of up to 5000 Watts.

The lamp is protected against reverse polarity connection and negative voltage spikes of up to 1000 volts.