



## DIGITAL DUAL VOLTS Installation Instructions

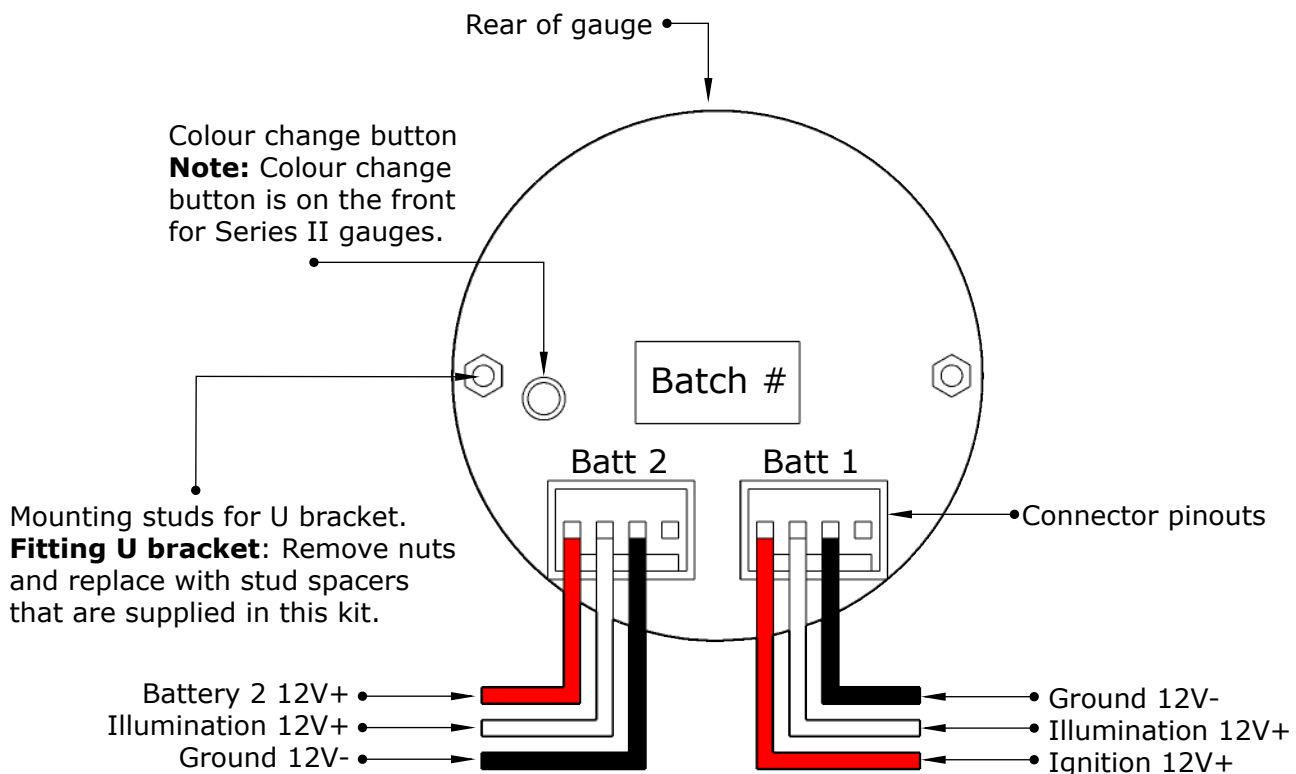
### Important notes before installing:

- Installing this product to your vehicle may require an adaptor. SAAS make a large range of adaptors and installation parts, please check with your SAAS dealer for available adaptors.
- SAAS Muscle series gauges are designed for **12volt** systems **ONLY!**
- All installation work should be done by a qualified professional to avoid damage to this product.
- SAAS **RECOMMENDS** all products be tested prior to installation. This will save time and speed up the troubleshooting process if you encounter any issues.

### Wiring Guide:

Wire colour	Wire Function	Wire Connection Location
Red (Batt1)	Ignition 12V+	Ignition harness / Fuse box
White (Batt1)	Illumination 12V+ ( <b>NOT</b> adjustable)	Park light circuit (do <b>NOT</b> connect to a dimmer)
Black (Batt1)	Ground 12V-	Vehicle body
Red (Batt2)	Battery 12V+	Second 12V+ source: Aux battery, caravan, etc..
White (Batt2)	Illumination 12V+ ( <b>NOT</b> adjustable)	Park light circuit (do <b>NOT</b> connect to a dimmer)
Black (Batt2)	Ground 12V-	Vehicle body

### Wiring Diagram Typical Layout



**NOTE:** Please turn over for wiring options.

## Wiring Options:

Please select a wiring diagram that best suits your application:

### Diagram 1: Switched OEM mode. (recommended)

- Use diagram 1 if you want the gauge to switch on and off with the ignition key. Please note that a 4 or 5 pin automotive relay will need to be wired in to prevent any constant power feeding back into the gauge. Relay not supplied.

### Diagram 2: Low current mode. (always on)

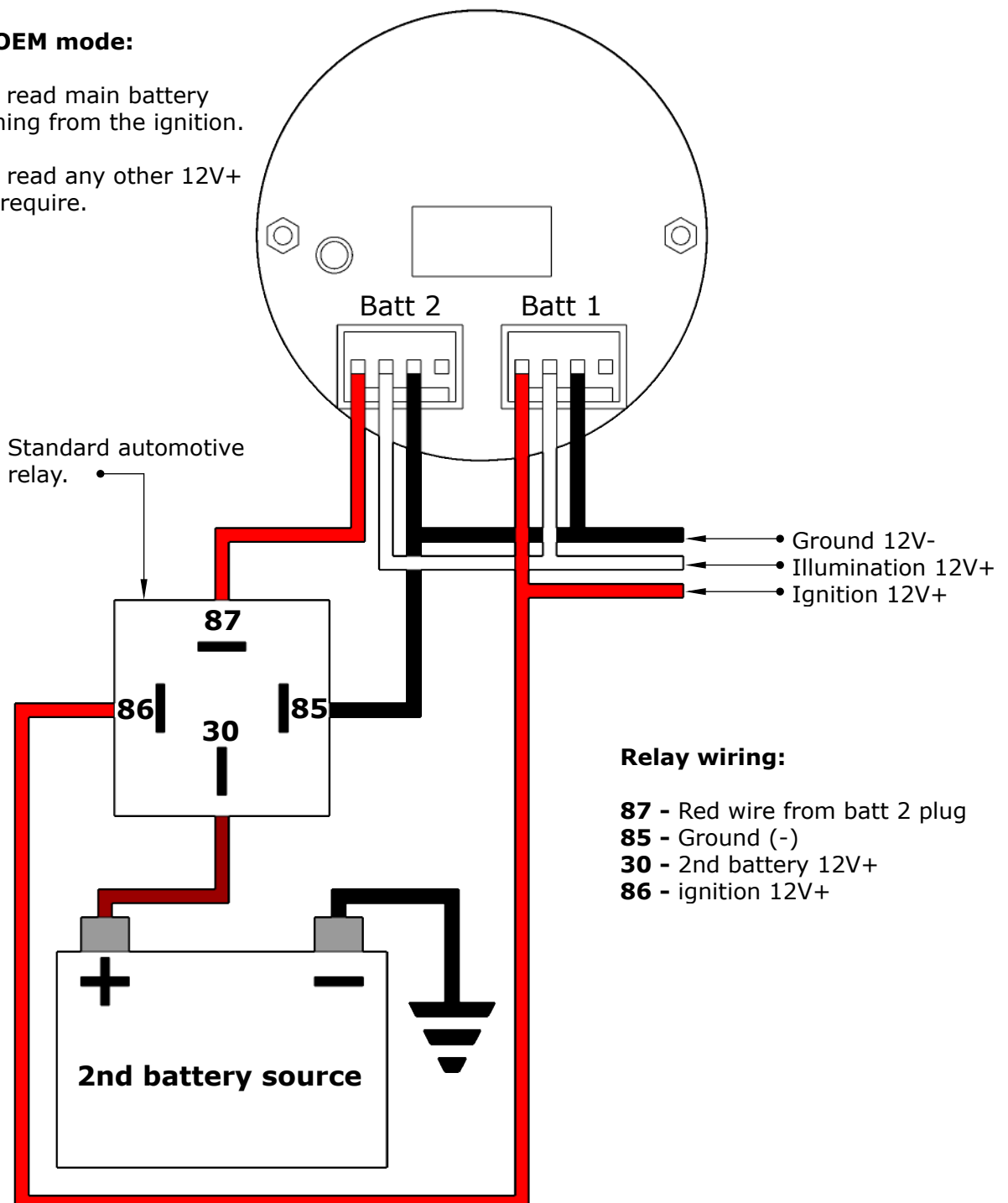
- Use diagram 2 if you require the gauge to stay on constantly. In this mode the gauge will only draw around 200 milliamps of current and will not use the gauge back lighting.

## Wiring Diagram 1:

### Switched OEM mode:

**Batt 1:** will read main battery voltage coming from the ignition.

**Batt 2:** will read any other 12V+ source you require.

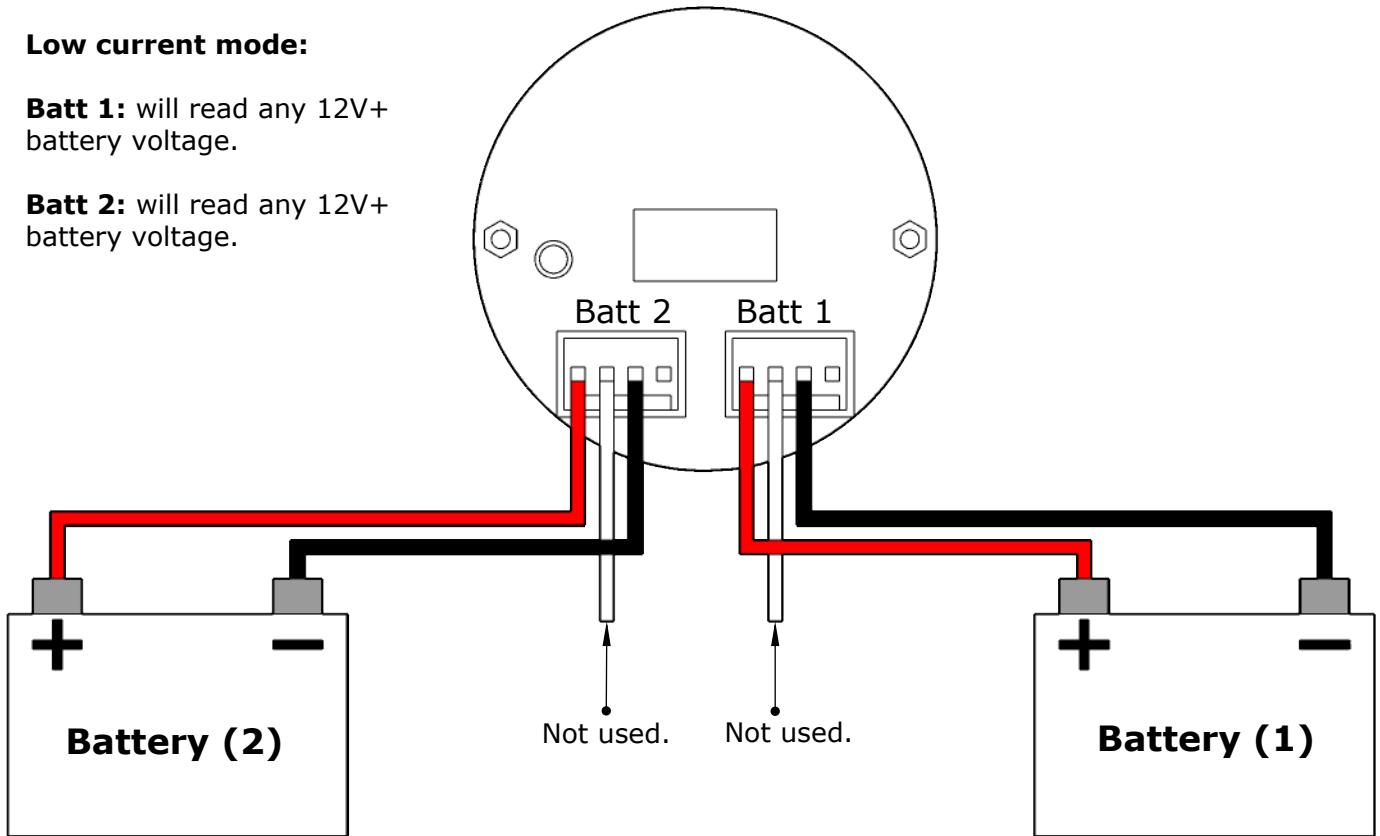


## Wiring Diagram 2:

**Low current mode:**

**Batt 1:** will read any 12V+ battery voltage.

**Batt 2:** will read any 12V+ battery voltage.



**Note:** Using this diagram will make the gauge stay **ON** constantly!

## Troubleshooting:

**Please note:** If you are having problems with the installation of this product, please do not contact your retailer or SAAS until you have read **ALL** the troubleshooting notes below.

Problem	Possible Cause	Solution
-gauge not reading	-bad connection -incorrect wiring	-test for power at the back of the gauge -refer to fitting instructions
-gauge won't turn off	-incorrect wiring diagram used -incorrect wiring to relay -no relay used	-follow wiring diagram 1 -refer to relay wiring diagram -a relay must be used if 2nd battery source is constant
-no back lighting	-incorrect wiring -connected to a dimmer	-follow wiring diagram 1 -refer to fitting instructions
-gauge shows 0.0volts on display	-wiring diagram 2 used -battery voltage is below 8 volts	-no fault -check vehicle battery

**For further assistance email: [tech@saasautomotive.com.au](mailto:tech@saasautomotive.com.au)**

# **GAUGE INFORMATION**

## **Specifications**

Gauge operating range	8v > 18v
Gauge current draw (switched mode)	400 > 800 milliamps (depending on backlight colour)
Gauge current draw (low current mode)	200 milliamps
Wiring connector lengths	700mm x 2
Gauge lighting type	white LED with 4 colour LED backlight (NON DIMMABLE)
Gauge lighting colours	green > red > blue > white
Mounting depth required for gauge	50mm (minimum)
Total depth of gauge	55mm (including bezel)
Mounting hole size for gauge	52mm

## **Contents:**

<b>In The Box</b>	<b>Qty</b>	<b>Notes</b>	<b>Part No.</b>
Dual volt gauge	1		
Wiring connector	2		SG3151
Mounting U bracket	1		SG31005
Mounting U bracket studs (M4x0.7 thread)	2		
Mounting U bracket nuts	2		
Mounting U bracket spring washers	2		
Fitting instructions	1		

## **Warranty Terms & Conditions:**

SAAS Automotive Pty Ltd warrants this product against defects in factory workmanship and materials for a period of twelve (**12**) months from the date of original purchase. This warranty applies to the first retail purchaser, is non-transferable and covers only where the product has been subjected to normal use or service. Provision of this warranty shall not apply to any SAAS Automotive product that has been used for a purpose for which it is not designed, or which has been altered in any way that would be detrimental to the performance or life of the product, or misapplication, misuse, negligence or accident. Warranty claims to the manufacturer must be transportation prepaid and accompanied with dated proof of purchase. On any part or product found to be defective after examination by SAAS Automotive Pty Ltd, SAAS Automotive Pty Ltd will only repair or replace the merchandise through the original selling dealer or on a direct basis. SAAS Automotive Pty Ltd assumes no responsibility for diagnosis, removal and/or installation labour, loss of vehicle use, loss of time, inconvenience or any other consequential expenses. The warranties herein are in lieu of any other expressed or implied warranties, including any implied warranty of suitability, and any other obligation on the part of SAAS Automotive Pty Ltd, or the selling dealer.

**For further assistance email: [tech@saasautomotive.com.au](mailto:tech@saasautomotive.com.au)**