



MUSCLE SERIES



OIL PRESSURE Installation Instructions

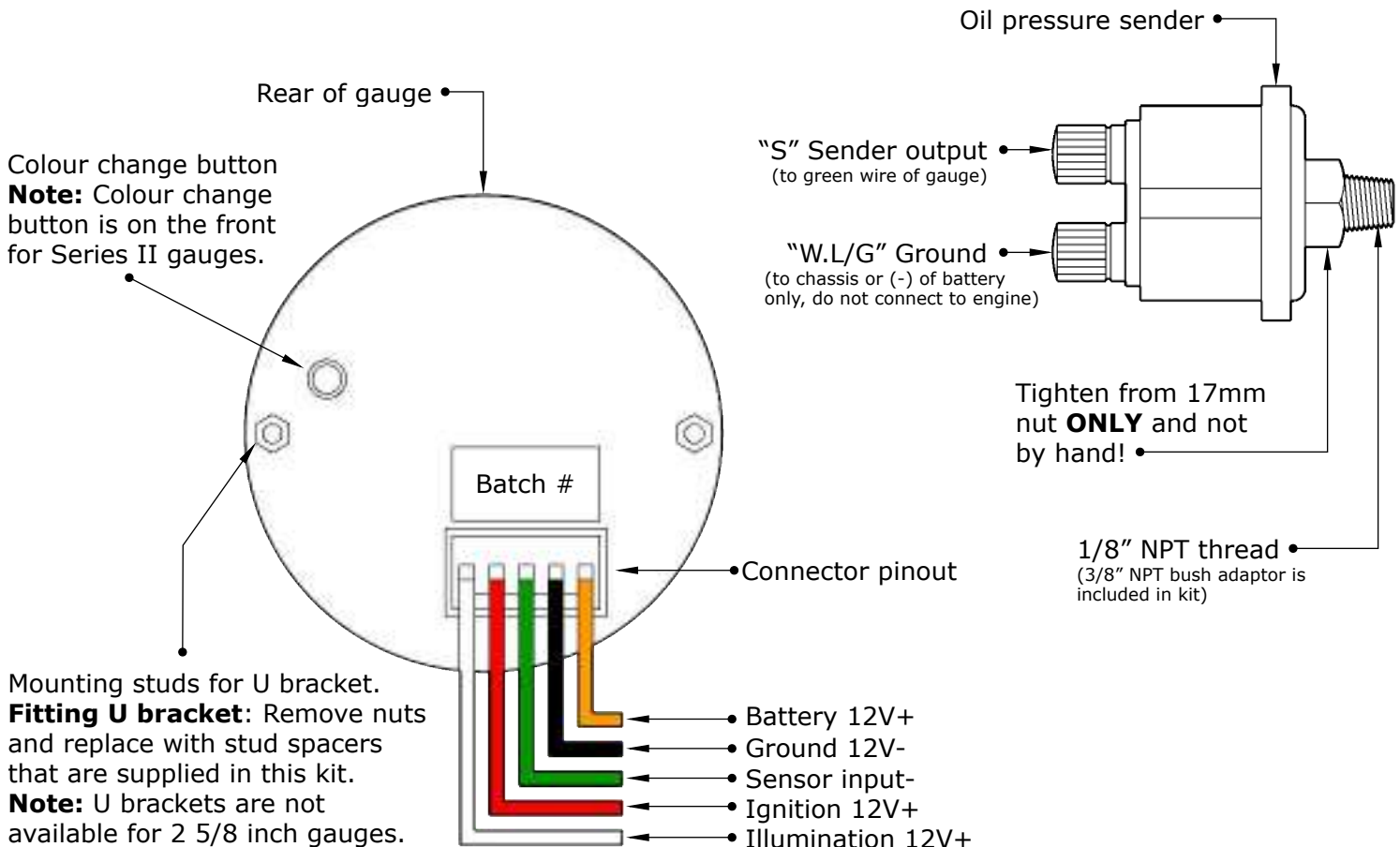
Important notes before installing:

- 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
White	Illumination 12V+ (NOT adjustable)	Park light circuit (do NOT connect to a dimmer)
Red	Ignition 12V+	Ignition harness / Fuse box
Green	Sensor input-	Oil pressure sender output ("S" terminal)
Black	Ground 12V-	Vehicle body
Orange	Battery 12V+	Ignition harness / Fuse box

Wiring Diagram Typical Layout



Oil Pressure Sender Installation:

- **Recommended sender locations:** Engine block, oil pump/filter housing, factory oil switch location.

- **Fitting the oil pressure sender:**

There are a two ways to fit an oil pressure sender to your engine. One way is to use a oil filter sandwich plate and the other is to use a tee adaptor.

- **Oil Filter Sandwich Plate (Recommended):**

The diagram to the right shows how a sandwich plate is fitted and in most cases is the quickest.

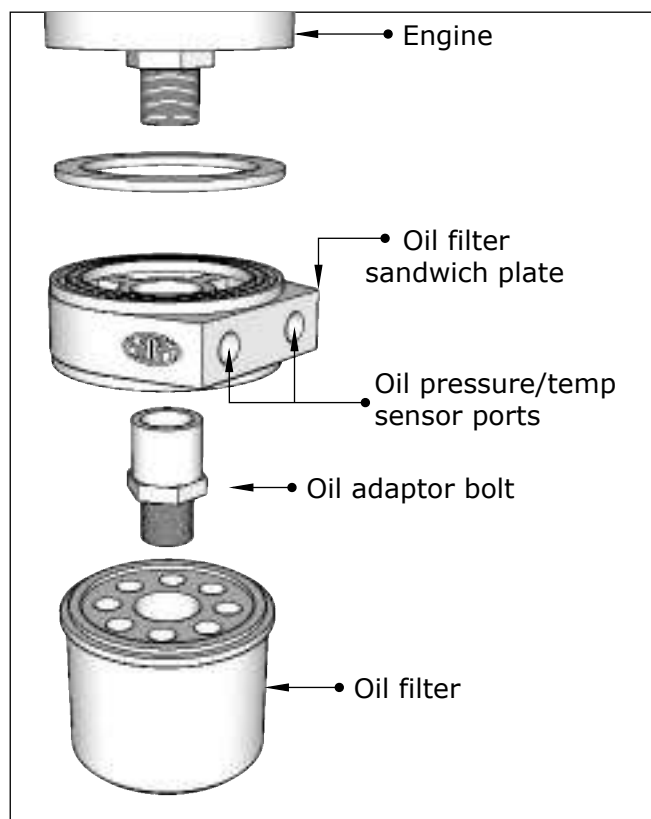
- **Tee Adaptor:**

A tee adaptor allows the factory oil switch and a second oil pressure sender to be fitted in the same location.

Tee adaptors can be harder to fit due to the lack of space on some engines. If the factory oil switch is in a hard to reach position, then it is recommended that you fit the SAAS oil pressure sender in a remote location so it will be much easier to get to for servicing and testing.

- **Tip:** Braided turbo feed line works great as an extension and can also be used on oil filter sandwich plates for vehicles with compact engine bays.

- **Caution:** Removal of the factory oil switch is not recommended! Modern vehicles need the factory oil switch to operate correctly and will set of dash warning lights if they are removed.



Troubleshooting:

Problem	Possible Cause	Solution
-gauge not reading -needle jumps around	-bad connection	-test for power at the back of the gauge
	-sender signal wire is too long or too thick	-test for ground at the sender
	-damaged sender	-wire thickness must not exceed 20AWG
-no back lighting	-incorrect wiring	-check if sender is in spec with a multimeter (see page 3 for scale)
	-connected to a dimmer	-refer to fitting instructions
-back lighting stuck on white	-incorrect wiring	-refer to fitting instructions
-back lighting defaults back to green	-incorrect wiring	-connect or check orange wire for 12V+
	-battery was disconnected	-check orange wire for 12V+
		-press button to set desired colour

For further assistance email: tech@saasautomotive.com.au

GAUGE INFORMATION

Specifications

Gauge and sender operating range	0 > 140 PSI
Oil sender ohms range	0 > 155 ohms, scale:1ohm @ 0psi or 69.9ohms @ 60psi
Oil sender thread size	1/8" NPT
Oil sender nut size	17mm
Oil sender dimensions	Total length 77mm, width 47mm
Oil sender terminals	2 x M4 x 0.7 thread
Gauge lighting type	4 colour LED (NON DIMMABLE)
Gauge lighting colours	green > red > blue > white (default colour green)
Mounting depth required for gauge	50mm (minimum)
Total depth of gauge	55mm (including bezel)
Mounting hole size (52mm gauges)	52mm
Mounting hole size (2 5/8 inch gauges)	65mm

Contents:

In The Box	Qty	Notes	Part No.
Oil pressure gauge	1		
Oil pressure sender	1		SG31002
Brass bush adaptor (3/8" NPT to 1/8" NPT)	1		SGA-320051
Wiring connector	1		SG3130
Mounting U bracket	1	Not available for 2 5/8 inch gauges	SG31005
Mounting U bracket studs (M4x0.7 thread)	2	Not available for 2 5/8 inch gauges	
Mounting U bracket nuts	2	Not available for 2 5/8 inch gauges	
Mounting U bracket spring washers	2	Not available for 2 5/8 inch gauges	
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.

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