

## BOOST/OIL PRESS

### Installation Instructions

Part No: SG611230  
2 inch-52mm

Important notes before installing:

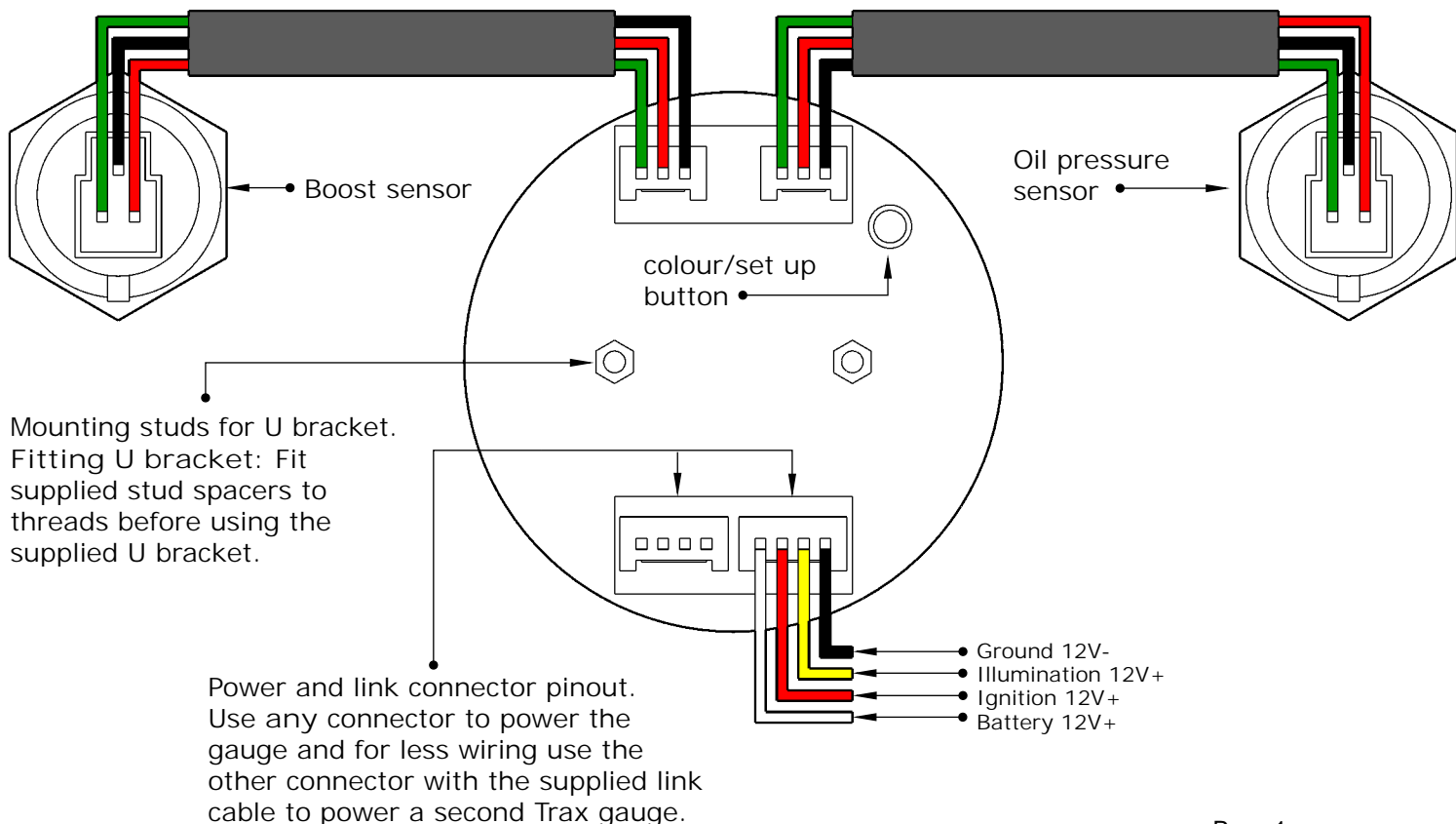
- Installing this product to your vehicle may require an adaptor. SAAS make a large range of adaptors and installation parts, please check with your SAAS dealer for available adaptors.
- SAAS Trax series gauges are designed for 12volt systems ONLY!
- All installation work should be done by a qualified 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	Battery 12V+	Ignition harness / Fuse box
Red	Ignition 12V+	Ignition harness / Fuse box
Yellow	Illumination 12V+ (NOT adjustable)	Park light circuit (do NOT connect to a dimmer)
Black	Ground 12V-	Vehicle body

### Wiring Diagram

#### Typical Layout



## Oil Pressure Sensor Installation:

- Recommended sensor locations: Engine block, oil pump/filter housing, factory oil switch location.
- Fitting the oil pressure sensor:

There are two ways to fit an oil pressure sensor to your engine. One way is to use an 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.

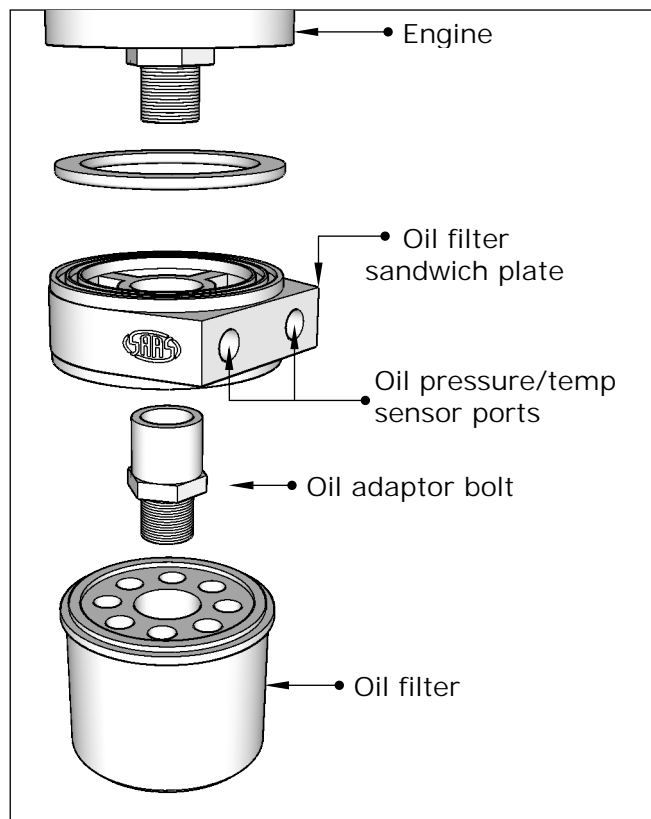
- Tee Adaptor:

A tee adaptor allows the factory oil switch and a second oil pressure sensor 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 off dash warning lights if they are removed.



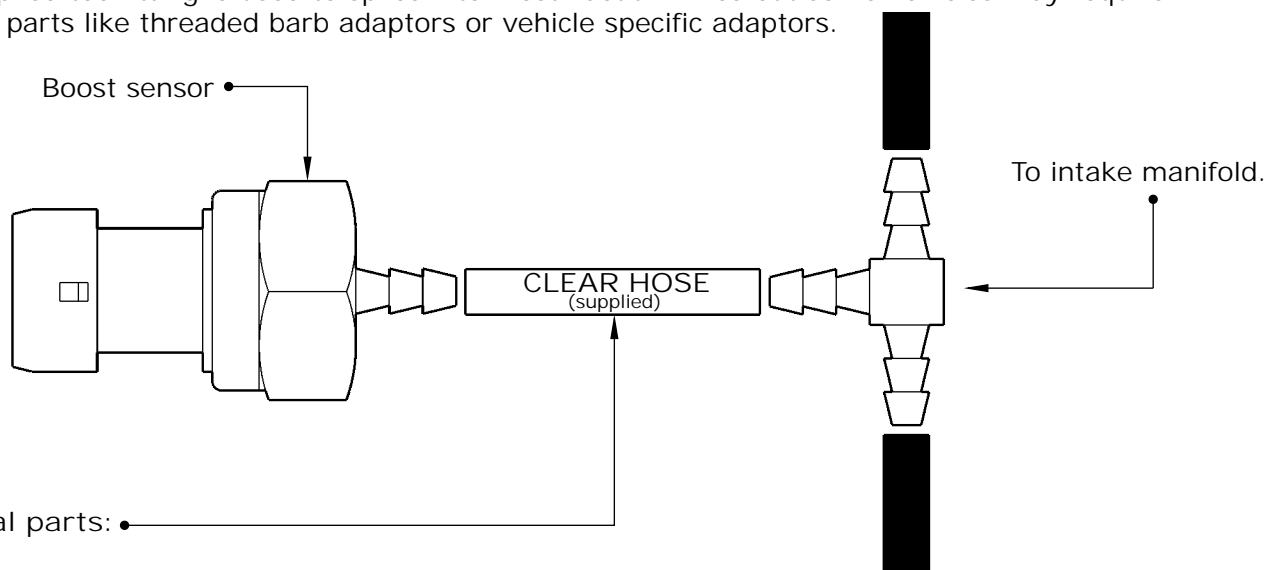
## Boost Sensor Installation:

- Recommended sensor locations:

Connect the boost sensor to the intake manifold or intercooler piping before any factory sensors.

To secure the boost sensor, cable tie to a wiring loom away from extreme heat or mount the sensor inside the vehicle and run the hose through the firewall. (longer hose may be required)

The supplied tee fitting is used to splice into most vacuum lines but some vehicles may require optional parts like threaded barb adaptors or vehicle specific adaptors.



Part# SG21007 - 4 meter clear boost hose extension kit.

Part# SSVH33MM - 3 meter black silicone boost/vacuum hose. (Great for higher temperature applications and easier to work with)

## Important Fitting Notes For Installers:

- How to pass cables and sensors through firewalls correctly:

Option (A): Drill or cut a hole into a rubber grommet making sure there is enough room behind not to damage any factory cables and enough space to pass your cables and sensors through without any force. DO NOT pull on connectors when feeding through firewalls or grommets!

Option (B): Wrap some electrical tape around a wire coat hanger and around the connectors/ cables that you want to pass through the firewall, use some WD40 to lubricate the coat hanger so the connectors pass through the firewall grommet gently. DO NOT pull on connectors when feeding through firewalls or grommets!

## Setting Gauge Functions:

Note: Use the button at the back of the gauge to set all gauge functions before fitting gauges to gauge pods and holders.

### Gauge Warning Functions

- Analogue read out: Turn ignition on > press and hold button for 5 seconds until needle flashes > release button > press and hold button again to move the needle to your desired setting > release button > gauge will exit setup after 5 seconds.

- Example: Boost warning is set to 17 PSI; when boost reading exceeds 17 PSI the analogue gauge (needle and backlight) will flash and beep.

- Digital read out: Turn ignition on > press and hold button for 10 seconds until digital display flashes > release button > press and hold button again to adjust your desired setting > release button > gauge will exit setup after 5 seconds.

- Example: Exhaust warning is set to 650°C; when exhaust reading exceeds 650°C the digital gauge (LED section) will flash and beep.

### Backlight Colour

- Turn ignition on > press button once to change colour.

### Beep Disable

- Turn ignition on > press and hold button for 15 seconds > release button > press button again to turn beeps on or off > gauge will exit setup after 5 seconds.

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

[www.shopsaas.com](http://www.shopsaas.com)

## 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
-not reading boost	-sensor not plugged in correctly	-check connector on gauge and sensor
	-wrong boost location	-boost line must come from intake manifold before any factory sensors
	-damaged sensor	-test sensor using a multimeter, a good sensor should read: 0.37v @ 0 PSI or 0.75v @ 15 PSI
-needle gets stuck	-over tightened metal gauge cup	-loosen band on gauge cup to free needle -see note below
-needle sitting below starting point	-gauge has been dropped or suffered a mechanical shock	-replace gauge
-not reading oil pressure	-sensor not plugged in correctly	-check connector on gauge and sensor
	-damaged sensor	-test sensor using a multimeter, a good sensor should read: 0.5v @ 0 PSI or 0.9v @ 15 PSI
- no oil pressure when engine heats up	-damaged sensor	-replace oil sensor
-gauge beeps and flashes randomly	-warning function activated	-adjust warning settings accordingly
-no backlight	-incorrect wiring	-refer to fitting instructions
	-connected to a dimmer	-refer to fitting instructions
-gauge gets hot	-incorrect wiring	-refer to fitting instructions
	-damaged boost sensor	-replace boost sensor
	-damaged oil sensor	-replace oil sensor

### Additional Troubleshooting Notes/Tips:

- Boost needle won't read or is stuck:

If your gauge is mounted in a metal gauge cup, please loosen the band as this may be the cause. Over tightening the gauge cup band puts a lot of pressure on the gauge body and will make the needle stick at some point.

# GAUGE INFORMATION

## Specifications

Gauge operating range	(boost) 0 > 30 PSI (oil) 0 > 140 PSI
Gauge operating voltage	8v > 18v
Boost sensor operating range	0.37v > 1.5v, scale: 0.37v > 0 PSI , 1.125v > 30 PSI
Boost sensor cable length / boost hose	2 meter power cable, 500mm boost hose
Oil sensor operating range	0.5v > 4.5v, scale: 0.5v > 0 PSI , 0.9v > 15 PSI
Oil sensor cable length	2 meter power cable
Gauge lighting type	7 colour LED (with a non adjustable dimmer)
Gauge lighting colours	blue/red/green/purple/ice blue/amber/white/needle only/scan
Gauge power harness length	1 meter
Gauge link harness length	300mm
Mounting depth required for gauge	55mm (minimum)
Total depth of gauge	55mm (including bezel)
Mounting hole size for gauge	52mm

### Contents:

In The Box	Qty	Notes	Part No.
Boost/oil gauge	1		
Boost sensor and 3 pin power harness	1		SG61004
Boost hose and plastic tee	1		SG21007
Oil sensor and 3 pin power harness	1		SG61002
Gauge power connector	1		SG6100
Gauge link connector	1		SG6101
Mounting U bracket	1		SG61005
Mounting U bracket studs (M4x0.7 thread)	2		
Mounting U bracket nuts	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.

## ACCESSORIES & Installation Solutions

Item	Part No.
Oil filter sandwich plate billet black (oil filter adaptor bolt sold separately)	SGAP1
Oil filter sandwich plate billet polished (oil filter adaptor bolt sold separately)	SGAP2
Oil filter sandwich plate billet black 4X4 (oil filter adaptor bolt sold separately)	SGAP3
Boost gauge tube extension 4 meter (clear tube)	SG21007
Silicone boost/vacuum tube 3 meter (black tube)	SSVH33MM
Silicone boost/vacuum tube 3 meter (blue tube)	SSVH33MME
Metal gauge cup 52mm black	SGC52BH
Metal gauge cup 52mm chrome	SGC52CH
Plastic gauge cup 52mm black	SGC52P

See our full range of installation components @  
[www.shopsaas.com](http://www.shopsaas.com)



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