





Part No: SG614050

2 inch-52mm

Installation Instructions

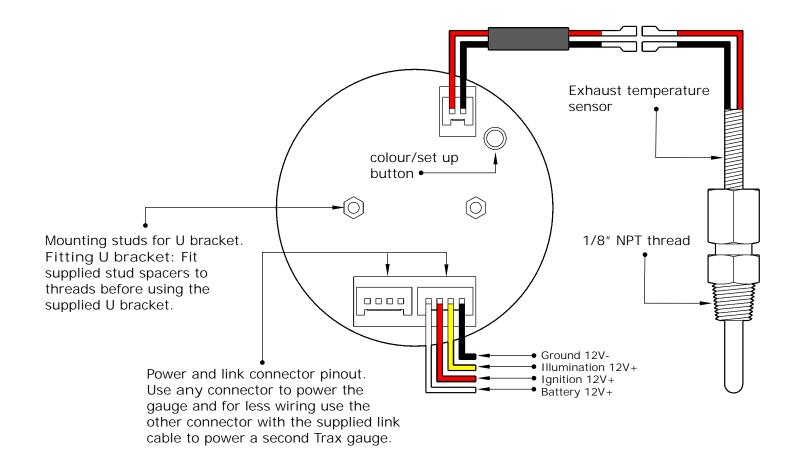
Important notes before installing:

- 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 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



Exhaust Sensor Installation:

- Recommended sensor locations:

Turbo vehicles: Exhaust dump pipe or exhaust manifold.

Pros & cons for exhaust dump pipe:

Easier to fit, doesn't require removal of the turbocharger, extended sensor life and slightly lower temperature readings.

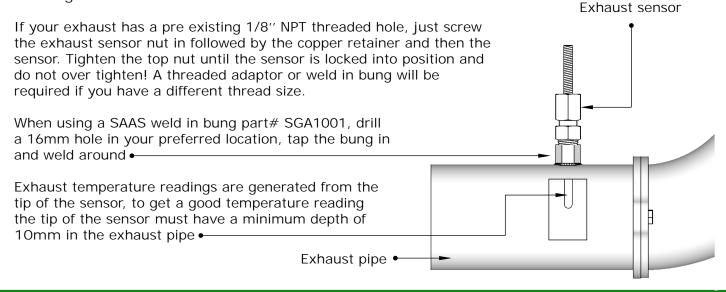
Pros & cons for exhaust manifold:

Harder to fit, exhaust manifold may need to be removed to clean out metal shavings, higher temperature readings and shorter sensor life.

Non turbo vehicles: Fit the sensor into the thin walled section of your exhaust manifold where all the pipes meet.

There is no wright or wrong location to fit an exhaust sensor, an exhaust gauge is designed to give you a temperature reading from it's installed location that you can use as a guide to get an average running temperature. Once you have your average running temperature, you can use that to gauge weather or not you have a temperature problem.

- Fitting the exhaust sensor:



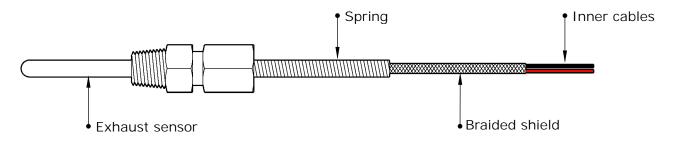
Important Fitting Notes For Installers:

- 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!

- WARNING: When installing exhaust sensors, DO NOT allow the braided cable to twist or bend while screwing the sensor in or out of the exhaust! Over twisting or bending the cable will cause the inner cables and braided shield to break underneath the spring causing incorrect readings or no readings at all and this will NOT be covered under warranty!



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

www.shopsaas.com

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		
-needle gets stuck	-over tightened metal gauge cup	-loosen band on gauge cup to free needle		
		-see note below		
-needle sitting below	-gauge has been dropped or	-replace gauge		
starting point	suffered a mechanical shock			
avbauat nat reading	had concer connection	abaali composters on gouge and concer		
-exhaust not reading	-bad sensor connection	-check connectors on gauge and sensor		
	-sensor cables reversed	-reverse the black and red sensor cables		
	-wet sensor	-allow sensor to dry out and insulate if		
		needed (split tubing, electrical tape or		
		heat shrink)		
exhaust reads 999°C	-exhaust sensor not plugged in	-plug exhaust sensor in		
beeps and flashes	-damaged sensor	-check sensor for any damage		
		-test sensor using a multimeter, a good		
		sensor should read: 17Ω @ room temp 21°C		
		-see note below		
-gauge won't turn on	-bad connection	-check wiring for bad connections or wire		
		gauge directly to a battery to test		
-gauge beeps and	-warning function activated	-adjust warning settings accordingly		
flashes randomly				
-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		
-yauye yets not				

Additional Troubleshooting Notes/Tips:

- How to test a Trax exhaust sensor:

Disconnect exhaust sensor from gauge, use a led test light or multimeter and check for any ground signal coming through sensor cables. If ground is present in either cable then check sensor for damage or replace sensor. If no ground is present then check the Ω ohms with a multimeter, a good sensor should read around 17 Ω @ room temp (21°C).

- Exhaust 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	(EGT) 0°C > 999°C (volt 8v > 18v)		
Gauge operating voltage	8v > 18v		
Exhaust temp sender type	(K type), Ω test: $17\Omega > 21^{\circ}C$		
Exhaust temp sender thread size	1/8" NPT		
Mounting depth required for sensor	10mm (minimum) must be in the exhaust pipe		
Exhaust temp sender dimensions	total length 85mm		
Exhaust temp sender wire length	2 meters with a 100mm 2 pin gauge connecting plug		
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.
Exhaust/volt gauge	1		
Exhaust temperature sender and 2 pin gauge connector			SG61003
			0.0 (1.0.0
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.

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

ACCESSORIES & Installation Solutions

	· · · · · · · · · · · · · · · · · · ·
Item	Part No.
Exhaust gauge probe extension 1.2 meter	SG21008
Exhaust probe weld in temperature bung	SGA1001
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



SAAS Automotive PTY LTD 25 Metrolink Circuit West, Campbellfield, Victoria 3061 Australia

> ABN: 48166279670 ACN: 166279670

Phone: +61 3 9930 0100 Fax: +61 3 8339 2270 Email: tech@saasautomotive.com.au Web: www.shopsaas.com