





Part No: SG41240 2 inch-52mm

v20200814

Installation Instructions

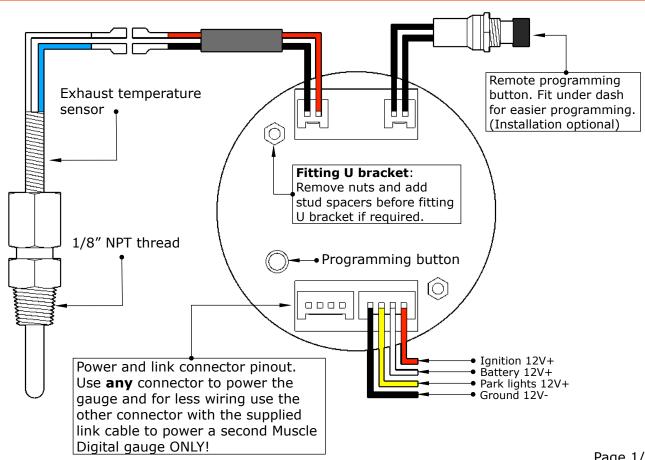
Important notes before installing:

- Installing this product to your vehicle may require an adaptor. SAAS offer 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.
- **BEFORE** installing, please check our website (**shopsaas.com**) for the latest fitting instructions. If the top left corner (\mathbf{v}) number is different to website, please use instructions from website.

Wiring Guide:

Wire colour	Wire Function	Wire Connection Location	
Black	Ground 12V-	Vehicle body	
Yellow	Park lights 12V+	Park light circuit (do NOT connect to a dimmer)	
White	Battery 12V+	Ignition harness / Fuse box	
Red	Ignition 12V+	Ignition harness / Fuse box	

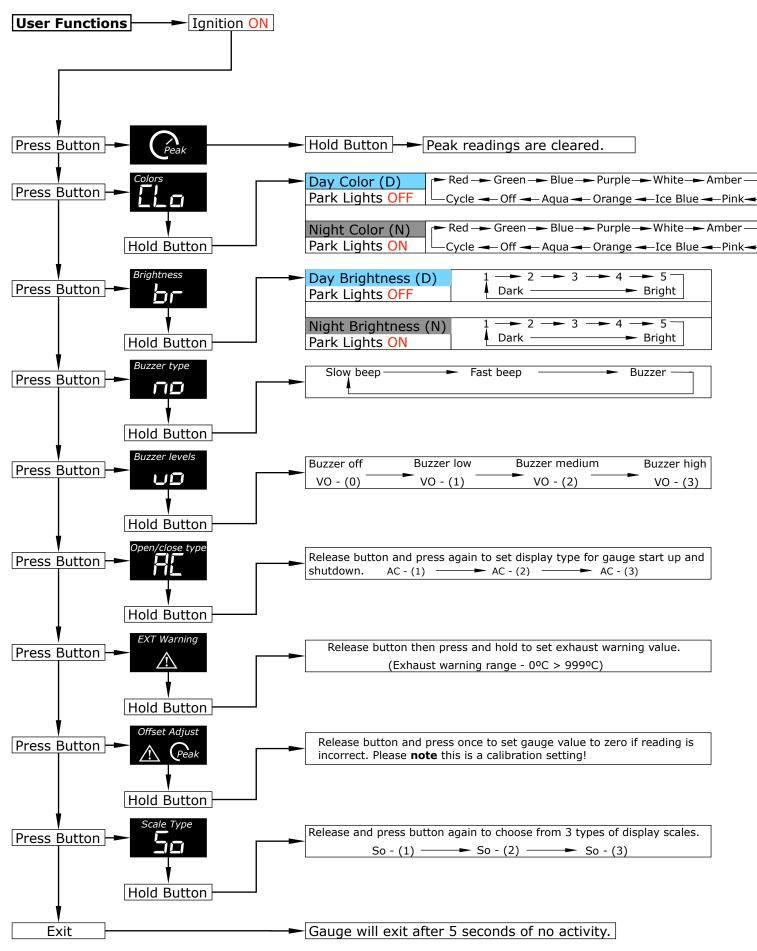
Wiring Diagram Typical Layout



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User Functions:

Note: Use the remote programming button or the button on the back of the gauge to set the below functions.



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:

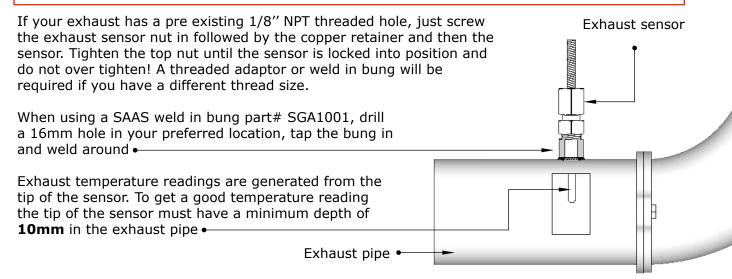
Harder to fit, exhaust manifold may need to be removed to clean out metal shavings, higher temperature readings and shorter sensor life.

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

There is no right or wrong location to fit an exhaust sensor; an exhaust gauge is designed to give you a temperature reading from its 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 whether or not you have a temperature problem.

- Fitting the exhaust sensor:

Note: Exhaust sensors are **NOT** water proof and will give incorrect readings when wet. Depending on the mounting location, you may need to insulate the cable using a protective tubing!



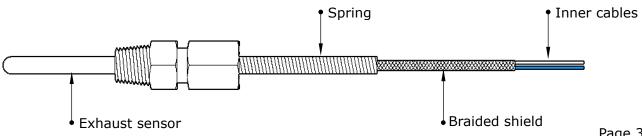
Important Fitting Notes For Installers:

- 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 whilst 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. This will **NOT** be covered under warranty!



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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 beeps but no	-incorrect wiring	-refer to fitting instructions		
display	-display is set to (OFF)	-press button to change backlight colour		
1 1 1				
-exhaust not reading	-bad sensor connection	-check connectors on gauge and sensor		
-readings jump around	-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 ()	-exhaust sensor not plugged in	-plug exhaust sensor in		
	-damaged sensor	-check sensor for any damage		
		-test sensor using a multimeter, a good		
		sensor should read 7Ω @ room temp 21°C		
		-see note below		
-gauge beeps and	-warning function activated	-adjust warning settings accordingly		
flashes randomly				

Additional Troubleshooting Notes/Tips:

- How to test a Muscle Series 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 7Ω @ room temp (21°C).

GAUGE INFORMATION

Specifications

Gauge operating range	0°C > 999°C		
Gauge operating voltage	8v > 18v		
Exhaust temp sensor type	(K type), Ω test: 7Ω > 21°C		
Exhaust temp sensor thread size	1/8" NPT		
Exhaust temp sensor dimensions	total length 85mm		
Exhaust temp sensor wire length	2 metre with a 100mm 2 pin gauge connecting plug		
Gauge lighting type	10 colour LED with 5 levels of brightness		
Gauge lighting colours	red - green - blue - purple - white - amber - pink -		
	ice blue - orange - aqua - OFF - cycle mode		
Gauge power harness length	1 metre		
Gauge link harness length	300mm		
Mounting depth required for gauge	45mm (minimum)		
Total depth of gauge	50mm (including bezel)		
Mounting hole size for gauge	52mm		

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

Contents:

In The Box		Notes	Part No.
Exhaust temperature gauge	1		
Exhaust temperature sender and 2 pin gauge harness	1		SG91003
Remote programming button	1		SG4106
Gauge power connector	1		SG9100
Gauge link connector	1		SG9101
Mounting U bracket with studs, nuts and washers	1	(M4x0.7 thread)	SG61005
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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ACCESSORIES &

Installation Solutions

Item	Part No.
Exhaust gauge probe extension 1.2 metre	SG21008
Exhaust probe weld in temperature bung	SGA1001
	6621007
Boost gauge tube extension 4 metre (clear tube)	SG21007
Silicone boost/vacuum tube 3 metre (black tube)	SSVH33MM
Silicone boost/vacuum tube 3 metre (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





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