

StreetLine



EXHAUST TEMPERATURE

Installation Instructions

Part No: SG21240 2 inch-52mm

v20210609

Important notes before installing:

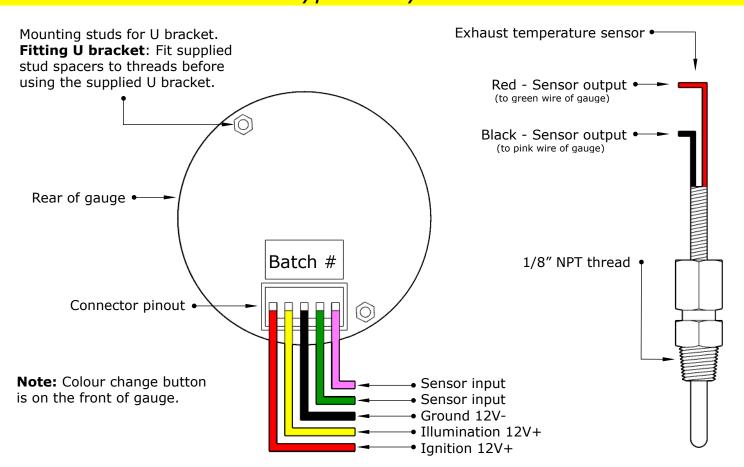
- Installing this product to your vehicle may require an adaptor. SAAS make a large range of adaptors and installation parts, please check with your SAAS dealer for available adaptors.
- SAAS Streetline series gauges are designed for 12volt systems ONLY!
- All installation work should be done by a qualified 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 | 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 |
| | | |
| Green | Sensor input | Exhaust sensor output (red wire of sensor) |
| Pink | Sensor input | Exhaust sensor output (black wire of sensor) |

Wiring Diagram

Typical Layout



Exhaust Sensor Installation:

- Recommended sensor locations:

Turbo vehicles: Exhaust dump pipe or exhaust manifold.

Pros & cons for exhaust dump pipe:

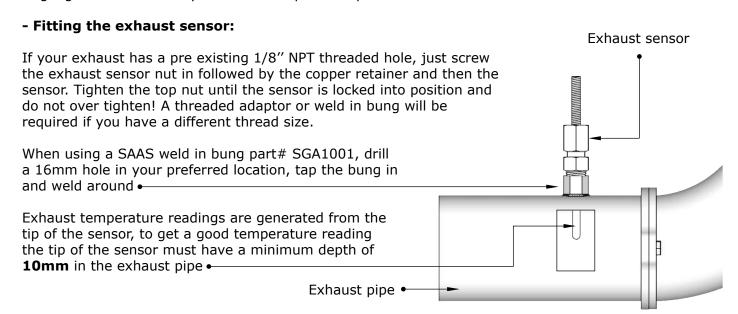
Easier to fit, doesn't require removal of the turbocharger, extended sensor life and slightly lower temperature readings.

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 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.



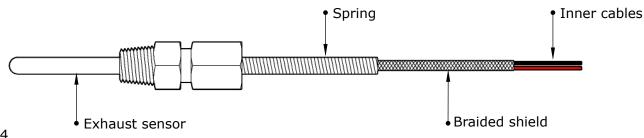
Important Fitting Notes For Installers:

- 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!



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GAUGE INFORMATION

Specifications

| Gauge and sender operating range | 0°C > 900 | | |
|------------------------------------|--|--|--|
| Gauge operating voltage | 8v > 18v | | |
| | | | |
| Exhaust temp sensor type | (K type), Ω test: 17 Ω > 21°C | | |
| Exhaust temp sensor thread size | 1/8" NPT | | |
| Mounting depth required for sensor | 10mm (minimum) must be in the exhaust pipe | | |
| Exhaust temp sensor dimensions | Total length 85mm, wire length 2 meters | | |
| | | | |
| Gauge lighting type | 7 colour LED (NON DIMMABLE) | | |
| Gauge lighting colours | blue/red/green/purple/ice blue/pale green/white/needle only/scan | | |
| | | | |
| Mounting depth required for gauge | 55mm (minimum) | | |
| Total depth of gauge | 60mm (including bezel) | | |
| Mounting hole size for gauge | 52mm | | |

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 on gauge | -test for power at the back of the gauge | |
| -needle jumps around | -exhaust sensor not plugged in | -check for loose crimp connectors on the | |
| -needle goes to (MAX) | correctly | sensor cable and re crimp if needed | |
| | -wet sensor | -allow sensor to dry out | |
| | -exhaust sensor cables reversed | -reverse cables | |
| | -damaged sensor | -check if sensor is in spec with a | |
| | | multimeter (see above for specs) | |
| | | | |
| -no back lighting | -incorrect wiring | -refer to fitting instructions | |
| | -connected to a dimmer | -refer to fitting instructions | |
| | | | |
| -lighting button stuck | -gauge face has been twisted | -twist face back so button lines up | |
| | | | |

Additional Troubleshooting Notes/Tips:

- How to test a Streeline exhaust gauge:

Disconnect exhaust sensor from gauge, power up gauge, if needle goes to 900°C gauge is ok, if needle does not move from (0) check wiring to gauge.

- How to test a Streetline 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 17Ω @ room temp (21°C).

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

Contents:

| In The Box | Qty | Notes | Part No. |
|--|-----|-------|----------|
| | | | |
| Exhaust temperature gauge | | | |
| Exhaust temperature sender | | | SG21003 |
| | | | |
| Wiring connector | | | SG2140 |
| | | | |
| Mounting U bracket | | | SG21005 |
| Mounting U bracket studs (M4x0.7 thread) | | | |
| Mounting U bracket nuts | | | |
| | | | |
| Fitting instructions | | | |
| | | | |

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



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