

## TACHOMETER (89mm)

### *Installation Instructions*

Part No: SG21261  
3 1/2 inch-89mm

v20230328

#### Important notes before installing:

- **WARNING:** SAAS tachometers are designed to work with **factory** ignition systems **ONLY!** Warranty will be void if connected to aftermarket ignition systems such as MSD, Mallory, Accel, etc.. Aftermarket ignition systems will require additional parts to operate so please check with your ignition manufacturer for available parts/adaptors and recommended wiring locations.

- SAAS Streetline series tachometers are designed for **12 volt** 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.

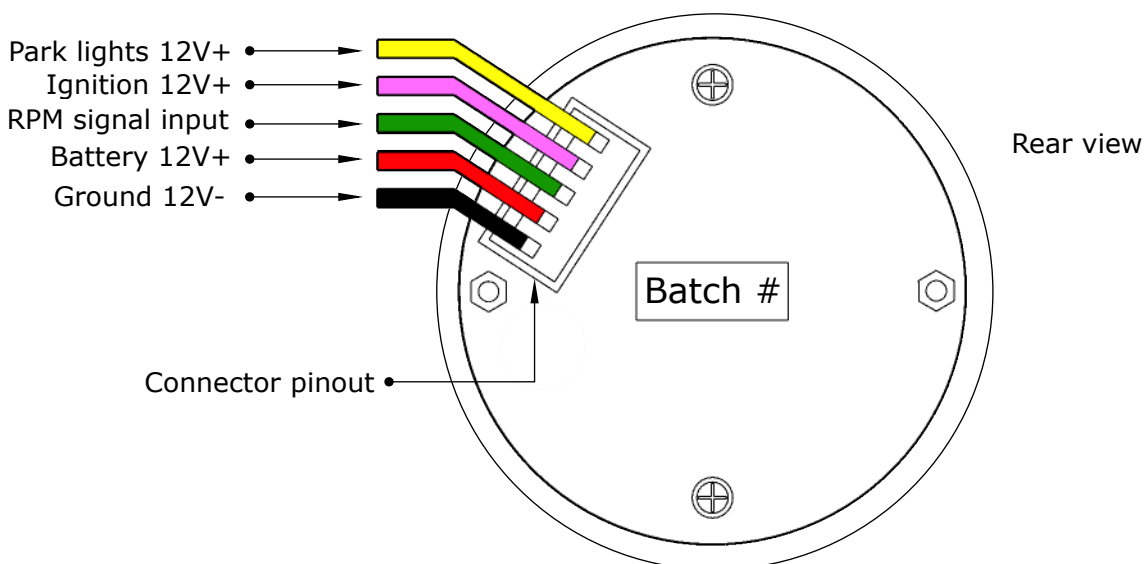
- **BEFORE** installing, please check our website ([shopsaas.com](http://shopsaas.com)) for the latest fitting instructions. If the top left corner (**v**) number is different to website, please use instructions from website.

#### **Wiring Guide:**

Wire colour	Wire Function	Wire Connection Location
Black	Ground 12V-	Vehicle body
Red	Battery 12V+	Battery / fuse box
Green	RPM signal input	Negative side of ignition coil or ECU tach wire
Pink	Ignition 12V+	Ignition harness / fuse box
Yellow	Park lights 12V+	Park light circuit (do <b>NOT</b> connect to a dimmer)

### Wiring Diagram

#### *Typical Layout*



## Tachometer Setup:

### How to select a cylinder preset:

- Turn ignition on > press and hold program button for 3 seconds > needle will move to current cylinder setting > release button and press again to move needle to correct setting ( 1 > 8 cylinders) > gauge will exit setup after 3 seconds of no activity.

### How to set shift light:

- Move the shift light dial to a preferred RPM. LED light will illuminate when preferred RPM is reached.

### How to set backlight colour:

- Turn ignition on > press program button once and release to cycle through available colours.



## Installation Tips:

### Installation Tip:

- For vehicles with no tach wire, or if the tach wire location is unknown, set cylinder setting to **(1)** and connect signal wire (green) to **ONE** cylinder coil only! (e.g. **VE Commodore / FG Falcon**)

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

# **GAUGE INFORMATION**

## *Specifications*

Gauge operating range	0 > 8,000 RPM
Gauge operating voltage	8v > 18v
Compatible engines	1>2>3>4>5>6>7>8 cylinder petrol engines ONLY!
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	50mm (minimum)
Total depth of gauge	55mm (including bezel)
Mounting hole size for gauge	80mm

## ***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.

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
-gauge not reading -needle jumps around	-bad connection on gauge	-test for power at the back of the gauge
	-bad signal from coil/ECU	-a resistor may be needed to clean up signal (see notes below)
	-diesel engine	-not compatible with diesel engines
-gauge reading is out	-ECU tach output is only 5volts	-see notes below
	-cylinder selector switch position	-check cylinder switch for correct setting
	-voltage issue	-power, ground and signal wires must have 12 volts (minimum) when idling!
-no backlighting	-bad wiring or old components	-fix wiring or replace worn components
	-incorrect wiring	-refer to fitting instructions

### **- Additional troubleshooting notes:**

**Problem:** "Gauge reads but needle bounces around"

- If the tachometer reads but the needle bounces around, a 10K 1/4 watt resistor fitted to the green signal wire may fix this issue. Installing a resistor: Cut the green signal wire and connect one end of the resistor to the coil side, and the other end of the resistor to the tacho side.

**Problem:** "ECU tach output is only 5 volts"

- If the tach output from your vehicle's ECU is only 5 volts, a 10K 1/4 watt resistor is needed to increase the signal voltage to 12 volts (Nissan, Subaru, etc.) Installing a resistor: Connect one side of the resistor to the **green** signal wire of the tacho, and connect the other side of the resistor to the **red** 12 volt ignition wire of the tacho. Do not cut any wires, just splice into. **WARNING:** Do not connect the resistor to any other wire or you **WILL** damage the tacho and your ECU!

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

## Contents:

In The Box	Qty	Notes	Part No.
Tachometer gauge	1		
Wiring connector	1		SG2161
Mounting bracket	1		
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](mailto:tech@saasautomotive.com.au)**



SINCE 1954

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](mailto:tech@saasautomotive.com.au)  
Web: [www.shopsaas.com](http://www.shopsaas.com)