# DIESEL TACH ADAPTER
## Installation Instructions

Part No: SG31652

v20241126

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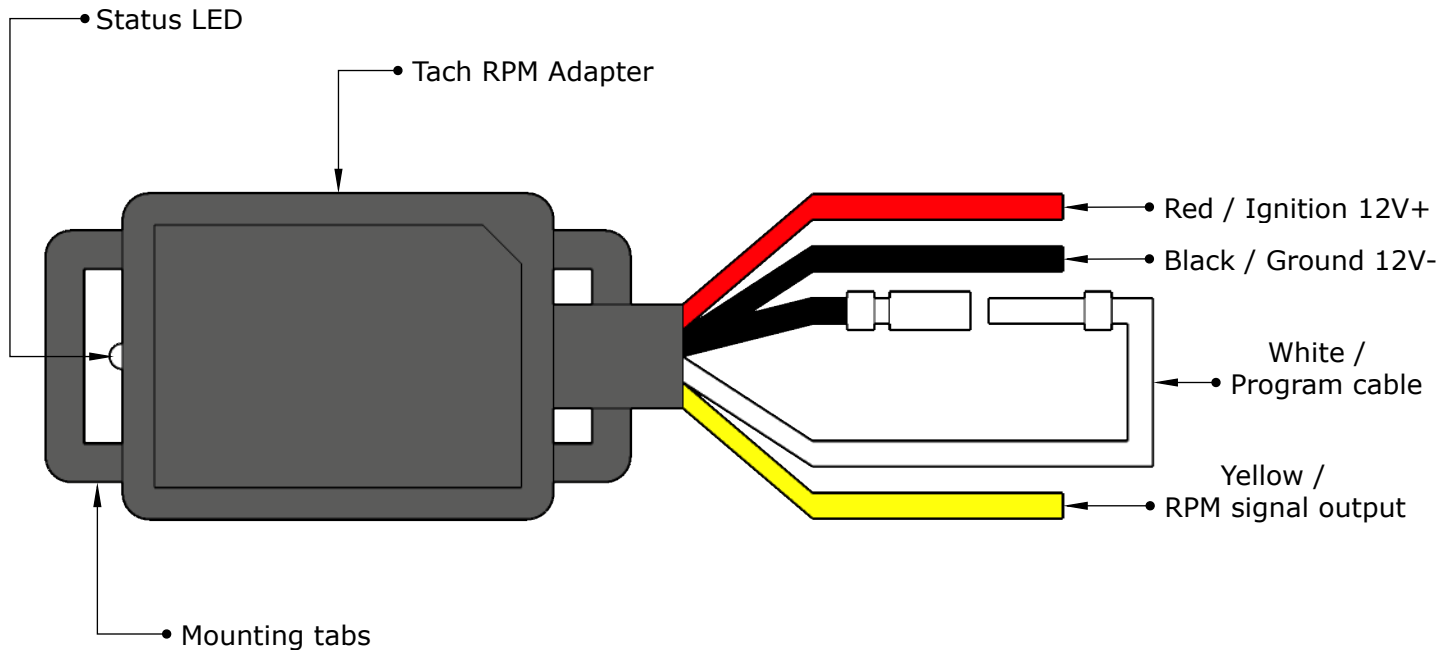
- **BEFORE** installing, please check our website (**shopsaas.com**) for the latest fitting instructions. If the top left corner (**v**) number is different to website, please use instructions from website.

## Wiring Guide:

| Wire Colour | Wire Function | Recommended Wiring Locations |
|---|---|---|
| | | |
| Red | Ignition 12V+ | Ignition harness / Fuse box |
| Black | Ground 12V- | Vehicle body |
| Yellow | RPM signal output | Connect to gauge RPM signal input |
| | | |
| White | Program cable | Connect to black to enter programming mode |
| | | |

## Wiring Diagram
### Typical Layout



- Status LED
- Tach RPM Adapter
- Red / Ignition 12V+
- Black / Ground 12V-
- White / Program cable
- Yellow / RPM signal output
- Mounting tabs

- Mount the tach adapter to the top or side of the vehicle's alternator using the supplied cable ties. See image below for correct mounting position.

- Run cables to your preferred location. To minimise electrical interference, keep wiring **away** from ignition components, leads, coils etc.

Mount the adapter so the status LED
is visible during programming ●



For the best performance, mount tach adapter
to the thinnest centre section of the alternator

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

**Note:** As a starting point, set your tachometer pulse / cylinder setting to **4**. Some vehicles / gauges may require a different setting after programming the adapter.

**Unit Programming:**

**1.** To enter programming mode, connect white and black programming cables together.

**2.** Start the engine. The status LED on the adapter should turn solid green.

**3.** Bring engine RPM up to 1000RPM and **HOLD**. You may need assistance for this step.

**4.** Disconnect programming cable. Status LED will stay solid green while adapter is calculating engine RPM.

**5.** After 5 seconds reconnect programming cable. Status LED will start to flash green and tachometer will begin to read.

**6.** Release engine RPM and disconnect programming cables. Programming cables must remain **disconnected** during normal operation!

**7.** If tachometer reading is out, adjust gauge pulse / cylinder setting to increase or decrease the reading. If gauge reading is still out, try reprogramming the adapter at a slightly higher or lower RPM. Diesel tachometers will need to be adjusted via the rear tuning screw to match engine RPM.

# *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 |
|---|---|---|
| | | |
| -status LED off | -wiring issue | -test adapter directly on a battery. Status LED should light up green |
| -no RPM output<br>-gauge reading is out | -tach adapter not programmed correctly | -repeat programming procedure |
| | -tach adapter location | -change adapter mounting position |
| | -gauge pulse / cylinder setting | -check gauge pulse / cylinder setting, diesel tacho's need to be adjusted via rear tuning screw |

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

| | |
|---|---|
| Operating voltage range | DC 12V > 24V+ |
| RPM pulse output | 4 pulse fixed (66.6Hz @ 1000RPM) |
| RPM output type | 12V square wave |
| Mounting location | Alternator, top or side |
| Compatibility | All diesel engines equipped with traditional alternators |
| Waterproof rating | IP67 |
| Adapter cable length | 1.6m |
| Adapter dimensions | 68mm x 36mm x 25mm |
| Power consumption | 25mA Max |

## Contents:

| In The Box | Qty | Notes | Part No. |
|---|---|---|---|
| | | | |
| RPM tach adaptor | 1 | | |
| Cables ties | 6 | | |
| | | | |
| 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



SINCE 1954