

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.

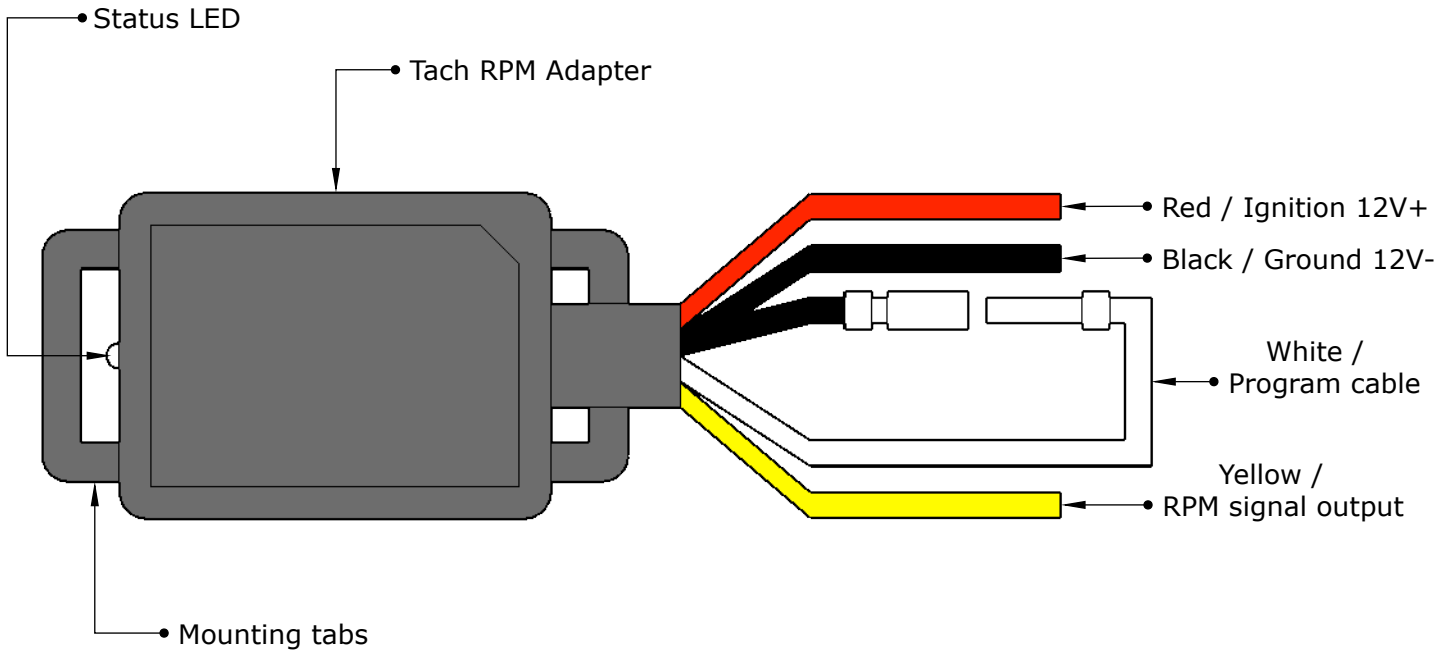
- **BEFORE** installing, please check our website (shopsaas.com) for the latest fitting instructions. If the top left corner (v) number is different to website, please use instructions from website.

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



Mounting Location:

- 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

Programming Mode:

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 -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

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PRODUCT INFORMATION

Specifications

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.

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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
Web: www.shopsaas.com