

DIGITAL TURBO TIMER

Installation Instructions

Important notes before installing:

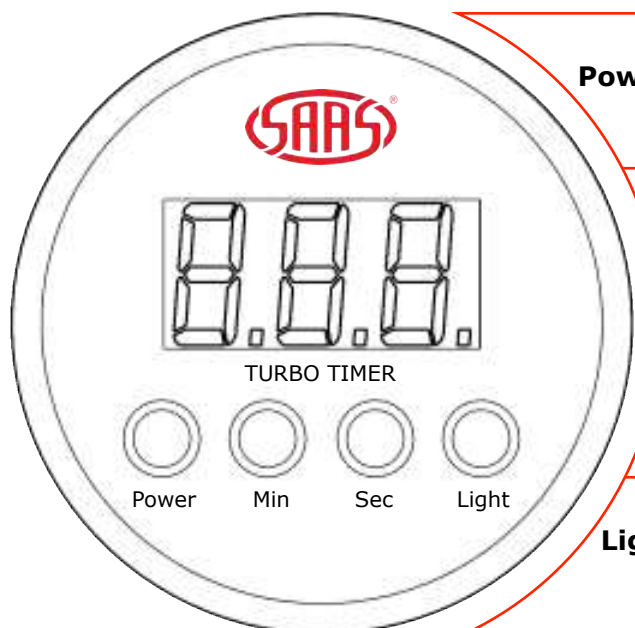
- Installing this product to your vehicle may require an adaptor. SAAS make a large range of adaptors and installation parts, please check with your SAAS dealer for available adaptors.
- SAAS Muscle series gauges are designed for **12volt** systems **ONLY!**
- All installation work should be done by 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.

Wiring Guide:

Wire colour	Wire Function	Wire Connection Location
Red	Battery 12V+	Ignition harness / Fuse box
Yellow	Ignition 12V+	Ignition harness / Fuse box
Blue	Ignition 2/ACC 12V+	Ignition harness / Fuse box
Black	Ground 12V-	Vehicle body
Grey	Park brake safety switch 12V-	Park brake switch

- **Red** wire must have 12V+ power at all times.
- **Yellow** wire must have 12V+ power when the ignition is in the **ON** and **START**(cranking) position.
- **Blue** wire can be connected to a 2nd ignition wire or an accessories wire depending on the vehicle.
- **Black** wire must be connected to a good grounding point, usually the vehicles body/chassis.
- **Grey** wire must be connected to the vehicles park brake switch for manual transmissions, for automatic transmissions this wire can be connected to either the park brake switch or to ground.

Timer Functions:



Power: This button is used to turn the timer on and off.
(timer automatically turns on when a time is preset)

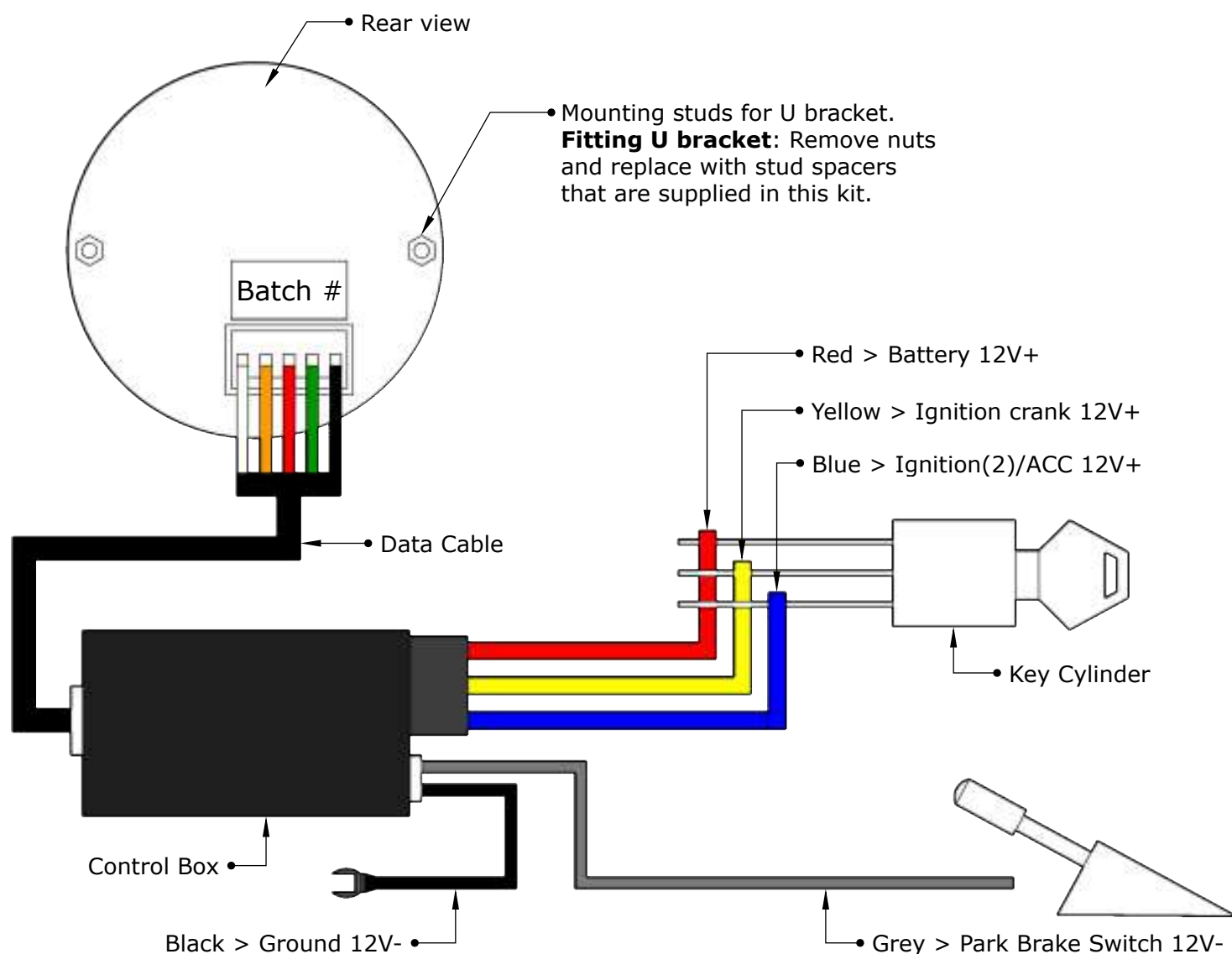
Min: This button is used to adjust the minutes.
(time can be set from 0 > 9 minutes)

Sec: This button is used to adjust the seconds.
(time can be set from 10 > 50 seconds)

Light: Press this button to change the back lighting colour.
(white>red>green>blue)

Wiring Diagram

(for key ignition systems)



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 won't turn on	-bad connection to gauge or control box -power spike	-check connectors on gauge and control box are plugged in correctly -remove power for 10 seconds and retry
-engine switches off when key is removed	-wrong ignition wire -multiple ignition wires -park brake cable not connected -car key was removed slowly	-locate the correct ignition wire/wires -locate the correct ignition wire/wires -park brake cable must be connected -remove car key without any delay
-timer display shows (-P-)	-park brake wire is not connected -gear stick is not in park	-grey wire MUST be connected -shift gear stick to park
-control box runs hot	-ignition wiring is overloaded	-the timer control box is only rated to 15 AMPS, any accessories on the ignition circuit must be removed or rewired!

GAUGE INFORMATION

Specifications

Gauge operating range	10 seconds > 9 minutes and 50 seconds
Gauge operating voltage	8v > 18v
Maximum current draw from control box	15 AMPS!
Control box dimensions	60mm x 25mm - cable length 150mm
Cable length for 3 pin main plug	300mm > 16AWG cable
Cable length for 2 pin ground plug	ground cable > 300mm, park brake cable > 1.5mt
Cable length for gauge harness	1.5mt (5pin data cable)
Gauge lighting type	white LED with 4 colour LED backlight (NON DIMMABLE)
Gauge lighting colours	green > red > blue > white
Mounting depth required for gauge	50mm (minimum)
Total depth of gauge	55mm (including bezel)
Mounting hole size for gauge	52mm

Contents:

In The Box	Qty	Notes	Part No.
Turbo timer gauge	1		
Control box	1		
Gauge wiring harness (5pin)	1		SG3180
Ignition wiring harness (3pin)	1		
Control box wiring harness (2pin)	1		
Mounting U bracket	1		SG31005
Mounting U bracket studs (M4x0.7 thread)	2		
Mounting U bracket nuts	2		
Mounting U bracket spring washers	2		
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