Tiny-Tach™

Commercial II Gas Model

Display Operating Instructions

All functions of the *Tiny-Tach* are accessible by pushing the "*SELECT*" button.

Tip: All functions of the meter can be accessed with the engine running or off.

INITIAL SETUP (skip if RPM reading is correct)

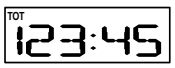
The default setting 360° should work for most engines.

Commercial Set-up

- Push **"SELECT"** button several times until display shows 360° "***DO NOT RELEASE BUTTON"*** until **"SET"** appears in the upper right corner of display. Once **"SET"** appears release and press **"SELECT"** button to toggle through all degree settings.
- Stop at correct degree setting for your engine (i.e. 360°, 120°, 90° etc.)
- Wait for 30 seconds and the display will return to **"TOT"** Total Hours.
- ***TINY-TACH*** is now ready to use.

Tip: *If the RPM displayed was to low, set the value to "720", If the RPM was too high set the value to "180"*

Display Modes

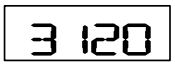


TOTAL TIME

TOT = Total Hours of operation.

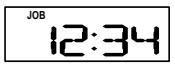
- Always displayed.

- TOT time CANNOT be reset.



RPM

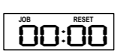
Typical RPM display during operation of the engine.



JOB TIME

JOB = Hours of operation since the timer was reset.

Reset JOB timer: Display indicates "TOT". Push the SELECT button until "JOB" appears continue holding until "RESET" appears and release.

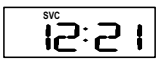
The display will return to JOB and will read - 00:00 

MAX RPM

MAX = Maximum RPM since the timer was reset.

Reset MAX RPM: Push the SELECT button until JOB is displayed. Push and HOLD the button once more until RESET appears and release. The display will change to: 

After RESET the display will read - 0000



SERVICE

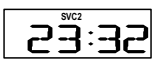
SVC = Hours of operation BEFORE next service. Note: Timer counts down. Resettable in 5 hour increments, 0 - 50 hours. When the preset service time is reached the display will flash.

Reset SVC timer: Push SELECT button until MAX is displayed. Push and HOLD the button once more until RESET appears and release. The display will change to: 

25 hours is the default value.

Programming SVC timer: Proceed as when resetting the timer, HOWEVER, continue to hold the SELECT button until SET appears and then push and release until the value you want is displayed.

While the "SET" is displayed the SVC time can be stepped forward until the desired service interval is achieved. The display will reset to Total Hours after 30 seconds.



SERVICE 2

SVC2 = Hours of operation BEFORE next service. Note: Timer counts down. Resettable in 10 hour increments, 0 - 250 hours. When the preset service time is reached the display will flash.

Reset SVC2 timer: Push SELECT button until SVC is displayed. Push and HOLD the button once more until RESET appears and release. The display will change to the set value.

Programming SVC2 timer: Proceed as when resetting the timer HOWEVER continue to hold the SELECT button until set appears.

While the "SET" is displayed the SVC2 time can be stepped forward until the desired service interval is achieved. The display will go to Total Hours after 30 seconds.

www.tinytach.com

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Tiny-Tach™

Commercial II Gas Model

Installation Instructions

***Tiny Tach*, Commercial Gas Model** can be used as a complete Service Tracking device for any spark ignited engine. It is programmable for different engine firing orders as well as for tracking two different service intervals. The tach is a "Pulse Meter" and reads the spark pulses from your ignition system.

Specifications:

Activation: Pulses from the ignition trigger the tach. No time is logged when the engine is not running.
The pulse pickup wire is shielded to avoid interference from the electrical system. Sampling time; less than 1 sec.

Operating Temp: -10 to 140 degree F (-20 to 60 degree C)

Display modes:

Total Hours (TOT): Displayed any time the engine is not running.
The hours can be manually viewed during operation. Displayed in hours and minutes up to 200 hours.
Over 200 hours, only full hours - max 19,999 hours.

RPM: Displayed any time the engine is running. The tach can be programmed for different pulses per revolution;
1 spark per revolution (default), 1 spark for every two revolutions and 2 sparks per revolution. Max 20,000 rpm.

Max RPM (MAX): Displays the maximum RPM recorded. Display can be manually reset.

Job: Indicates the amount of time that has been accumulated since the function was last reset.
Displayed in hours and minutes up to 200 hours. Can be manually reset.

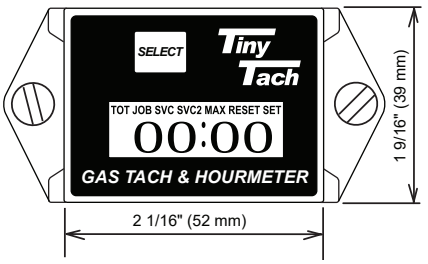
Service (SVC): Programmable service counter from 0 to 50 hours in 5 hour increments. Default set to 25 hours.
Displays how much time remains ("count down") until service. Displayed in hours and minutes.

Service2 (SVC2): Programmable service counter from 0 to 250 hours in 10 hour increments. Default set to 50 hours.
Displays how much time remains ("count down") until service. Displayed in hours and minutes.

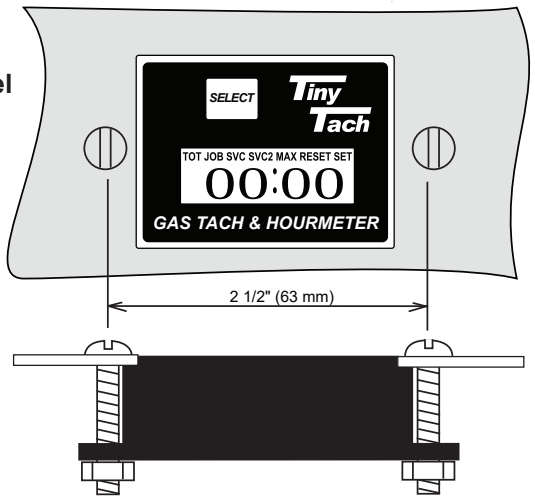
Installation:

Install the tach at an appropriate location. The design allows for either a flush panel mount or a surface mount. Avoid any hot surfaces.
A general guide line is if you <u>think</u> you can place your hand on the intended mounting surface without discomfort while the equipment is running at full operating temperature it may be a suitable mounting location.
NOTE: For Marine use or extreme wet conditions apply a thin film of RTV/Silicone to label edges and case seam to seal.
CAUTION: DO NOT MOUNT METER TO ANY FUEL TANK OR CRANKCASE OF AN ENGINE.

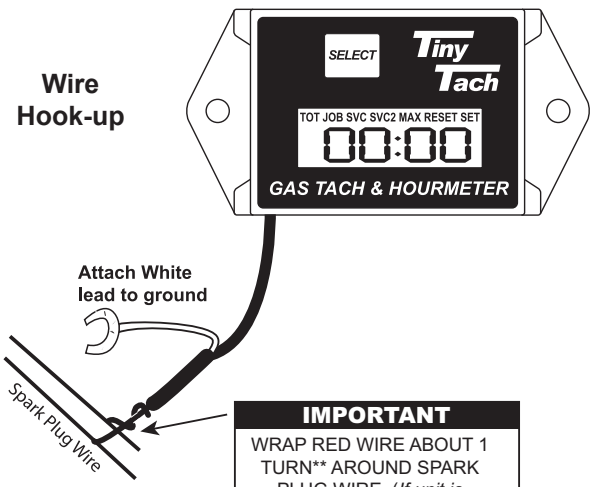
Surface Mounting



Flush Panel Mounting



Wire Hook-up



IMPORTANT

WRAP RED WIRE ABOUT 1 TURN** AROUND SPARK PLUG WIRE. (*If unit is reading correctly, cut off excess red wire.)*

**Too many wraps may pick up electronic noise and give a faulty reading.

Technical Support
630-920-1300

www.tinytach.com

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