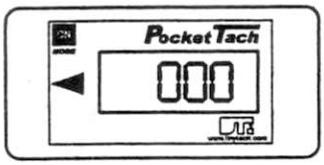
Pocket Tach Part # 1100-01 Instructions

Operating Instructions



The ***Pocket Tach*** is "Pulse" activated tachometer - i.e. the pulses generated by the ignition system on any gasoline engine can be detected and activate the electronic tachometer. The tach can be set to display proper RPM on a single cylinder as well as multi cylinder, two or four cycle, engine. By aiming the tach towards the sparkplug at a distance of approx. 4 to 15 inches (10 to 35 cm) the tach will display proper engine RPM. The tach can also display the MAXIMUM RPM recorded after checking the RPM of an engine.

Specifications:

Activation: Pulses from the ignition triggers the tach. The tach can be set to properly record any single or multi cylinder engine, 2 or 4 cycle by changing the display mode (see advanced opeeration). Default is 1 puls per revolution Adjustable to 1 puls per every 2 revolutions (720) or 2 pulses per revolution (180)

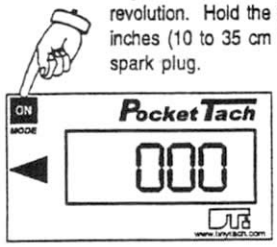
Acuracy: ← 10 rpm in default mode and ← 20 in 720 mode. Display updated evry 0.5 seconds

Max reading: 19,999 RPM

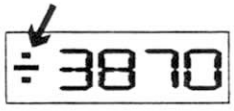
Battery: Lithium 3V (CR2430) - Replacable

Basic operation:

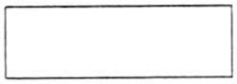
1. To start the Tach - push on the ON button and the tach is ready to dispaly the RPM of an engne that produces 1 spark per revolution. Hold the tach 4 to 15 inches (10 to 35 cm form the spark plug.



2. If the button is pushed once more after the reading; The tach will display the MAX rpm reached during the measurement. Note the sign on the display that is indicatinting that MAX rpm is displayed



3. The tach will turn OFF automatically after 1 minute and the MAX memory will be cleared.



See back for advanced operation

LIMITED WARRANTY: Design Technology, Inc. warrants that for a period of ONE (1) YEAR from the time of purchase it will repair or replace the ***Pocket Tach*** at no charge, if it fails to function properly due to defect in materials or workmanship. Damage due to improper care or use is expressly excluded from this warranty. All implied warranties are limited to the use of this instrument as directed above and Design Technologies does not assume of or authorize anyone to assume for it any other obligation. The instrument should be returned, prepaid to Design Technology Inc. for warranty consideration

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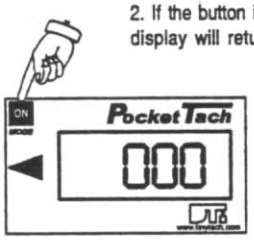
Advanced Operation:

Resetting the "Maximum RPM" display.

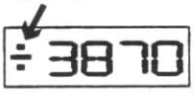
The "Maximum RPM" recorded automatically resets to "000" when the Pocket Tach turns off after 1 minute.
If you wish to reset the "Maximum RPM" display without waiting for the Tach to turn off do the following:

1. Push the ON/MODE button and the Maximum RPM will be displayed.

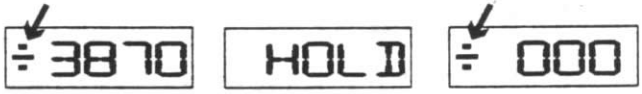
2. If the button is pushed once again the display will return to "RPM" mode.



Indicates Max RPM

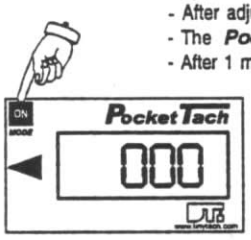


3. If in the normal RPM mode the ON/MODE button is pushed and **held down** for 5 seconds it first shows the "Max. RPM" last recorded and then the word "HOLD". The display will show ": 000" after another second and the Max RPM is now reset.



Proper RPM displayed:
Determine the amount of pulses (sparks) per engine revolution. Most common is 1 spark per revolution - default value. If you are unsure, start the engine and read the display.
Ex.: If the idle speed normally is 1200 rpm and the ***Pocket Tack*** reads 600 rpm you have 1 spark every second revolution (720).
120 = 3 sparks per rev., 180 = 2 sparks per rev., 360 = 1 spark per rev. (default).

Adjust as follows:
- When starting the tach PUSH and HOLD the ON/MODE button for approx. **5 seconds.** During this period the word **"HOLD"** will appear and eventually **"360"** (default).
- By pushing the ON/MODE button again the dial will toggle between 120, 180, 360 and 720.
- After adjustment wait for 10 seconds and the display will return to show **"000"**.
- The ***Pocket Tach*** will now show proper RPM during operation.
- After 1 minute the ***Pocket Tach*** will turn off if not used.



Antenna Pulse Pickup
An antenna lead wire can be hooked up to the ***Pocket Tack*** if it is difficult to get an accurate reading. Attach the lead to the backside of the Tach by the recessed screw. Loop the wire around the Ignition lead as illustrated.