

# TACHOMETER AND HOURMETER MANUAL

T2006-02

## 1. FUNCTION

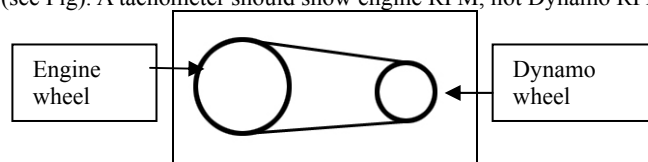
1. LCD shows how many hours the power has been On, in Hours and 1/10 hours.
2. Tachometer 0-4000 RPM or 0-8000 RPM, showing Rounds Pr Minute on engine.

## 2. CABLE CONNECTION

- a) RED CABLE +12V power (if +24V power, then connect the 82Ω5W resistor between the cable and the battery)
- b) BLUE CABLE Negative power (-)
- c) BLACK CABLE To terminal "W" on dynamo
- d) RED/WHITE CABLE Red Light, +12V power (if +24V power, then connect a 280Ω2W resistor between the cable and the battery)
- e) YELLOW/WH CABLE Yellow Light, +12V power (if +24V power, then connect a 280Ω2W resistor between the cable and the battery)

## 3. SETUP AND ADJUSTMENT

After connecting the Tachometer to Dynamo, start the engine. You have to adjust the Tachometer to Engine RPM, so use a device that counts the RPM for reference, if you do not know the RPM. A mechanical counter or an electronic counter may be used. The signal coming from "W" on dynamo, shows dynamo RPM. The adjustment is necessary, because of differences in the size of the wheel on the engine, and on the dynamo (see Fig). A tachometer should show engine RPM, not Dynamo RPM.



First adjust the Tachometer when engine is running idle, i.e. 800 RPM. Then increase the RPM to about 3000 for TACHO-4000 (6000 RPM on TACHO-8000), and adjust the Tachometer again. Then decrease to about 1500 RPM (3000 RPM on TACHO-8000), and adjust the Tachometer. Now the Tachometer is correctly adjusted.

### ① ENTERING ADJUSTMENT MODE

Open silicon seal ring gently at the back of the gauge (be careful and don't pull hard on the cables). There are two keys, left is "+", right is "-". Pressing + for at least 2 seconds, LCD shows:

0

### ② MODE CHANGE

In adjustment mode, the mode is changed by pressing + for at least 2 seconds. There are 4 different modes:

MODE 0: LCD screen shows:	0
MODE 1: LCD screen shows:	1
MODE 2: LCD screen shows:	2
MODE 3: LCD screen shows:	3

- a. In mode 0, the pointer can be adjusted in bigger steps, + is increasing, - is decreasing. (Press + or - for shorter than 2 sec., or the mode will change to the next mode)
- b. In mode 1, the pointer can be adjusted in smaller steps, + is increasing, - is decreasing. (Press + or - for shorter than 2 sec., or the mode will change to the next mode)
- c. In mode 2, the pointer can be adjusted with equal steps, + is increasing, - is decreasing. (Press + or - for shorter than 2 sec., or the mode will change to the next mode)
- d. In mode 3, you can reset the Hourmeter. By pressing "-" for shorter than 2 sec, the total timing is cleared and reset to 0.
- e. EXIT/ESC: Under whatever mode, pressing "-" for more than 2 seconds will exit the setup state, and return to Hourmeter. LCD display shows:

0 0 0 0 0 0 .0

## 4. TROUBLESHOOTING / RESET TO DEFAULT STATE

Under whatever mode, if the pointer cannot be adjusted by pressing "+" or "-", the tachometer should be reset to default state, and then be adjusted again according to above step ① and ②. To reset to default state, press "-" for at least 2 sec, while the LCD shows normal Hourmeter.