

The following are instructions for installing, wiring and programming the Veethree Electrical Programmable Tachometer with Hour meter.

CAUTION

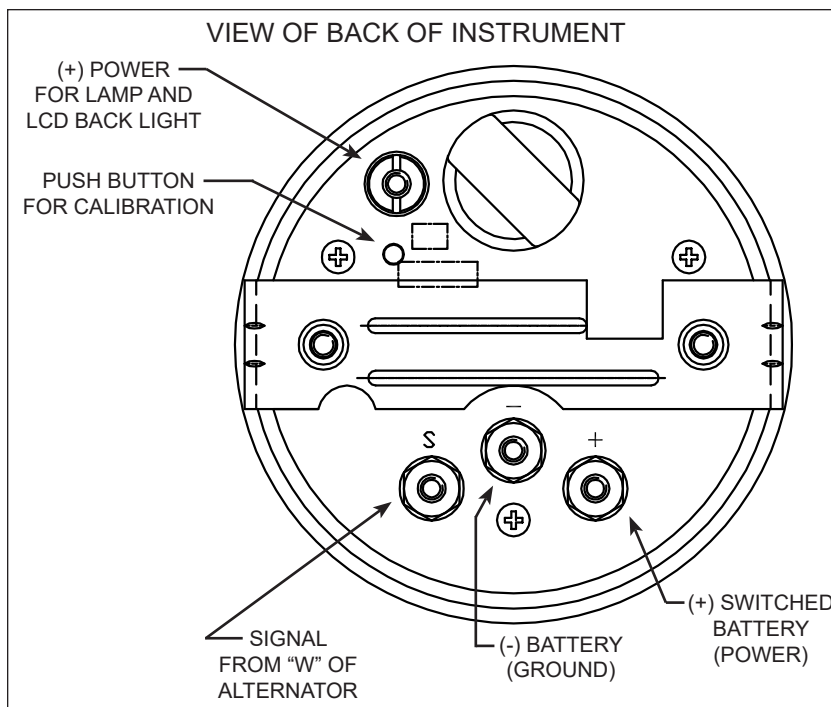
READ THESE INSTRUCTIONS THOROUGHLY BEFORE PROCEEDING, DO NOT DEVIATE FROM WIRING INSTRUCTIONS. INCORRECT WIRING COULD CAUSE ELECTRICAL SHORT AND POSSIBLE FIRE. ALWAYS DISCONNECT BATTERY BEFORE MAKING ANY ELECTRICAL CONNECTIONS.

PREPARATION FOR INSTALLATION

- 1) Select a mounting location for gauge which provides easy readability from the operating position. Check behind mounting panel for sufficient installation clearance.
- 2) Cut 3 13/32 inch (87mm) hole for the gauge.
- 3) Insert gauge into mounting hole and check for proper fit.
- 4) Use "U" bracket over the mounting studs on back of gauge. Trim bracket length as necessary for proper mounting.
- 5) Temporarily remove gauge and bracket from panel.

IMPORTANT

BEFORE PROCEEDING WITH FINAL INSTALLATION AND WIRING, TACHOMETER MUST BE PROGRAMMED TO OPERATE WITH YOUR EQUIPMENT. REFER TO THE CALIBRATION SECTION OF THESE INSTRUCTIONS.



Operating voltage - 11V to 28V DC

Factory Setting - (PPR - Pulses Per Revolution)
18 PPR (600 Hz at 2000 RPM)

Formula for PPR and Frequency Calculation -

$$\text{PPR} = \frac{\text{No. of poles}}{2} \times \text{Pulley Ratio}$$

No. of poles refers to the number of magnetic poles in the alternator, refer to alternator documentation or alternator manufacturer for this information.

$$\text{Frequency at "X" RPM} = \frac{\text{PPR} \times \text{"X"}}{60}$$

Manual Calibration Procedure -

While the tachometer is "ON", provide the signal input and press and hold button on back side of casing. Pointer will start moving over the RPM graduations range. Release button at the point where this tachometer is to be calibrated at that signal input.

Note -

- 1) During calibration, provided frequency should be constant and stable.
- 2) It is recommended that the pointer calibration should be at mid point of dial graduations.

Auto Calibration Procedure - (Working range - 3 to 35 Pulses Per Revolution)

ACTION	DISPLAY STATUS	DISPLAY MODE
Press and hold push button on the back side of the casing and turn "ON" the power supply.	A screen with word "PULSE" will appear.	PULSE
Release the button.	Four (4) digits will appear on screen and 1st right digit will start blinking.	000.0 1st Right Digit ↑
Push the button.	1st right digit will start incrementing. (Once for each push)	000.9
Release the button for 2 seconds.	2nd right digit will start blinking.	000.9 2nd Right Digit ↑
Push the button.	2nd right digit will start incrementing. (Once for each push)	009.9
Release the button for 2 seconds.	3rd right digit will start blinking.	009.9 3rd Right Digit ↑
Push the button.	3rd right digit will start incrementing. (Once for each push)	029.9
Release the button for 2 seconds.	4th right digit will start blinking.	029.9 4th Right Digit ↑
Push the button.	4th right digit will start incrementing. (Once for each push)	029.9
Reset the power supply to set the pulses.		

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