

TIMING WATCHDOG



303.885.7428

**THIS IS A HIGH PERFORMANCE PRODUCT.
USE AT YOUR OWN RISK.**

Do not use this product until you have carefully read the following agreement.

This sets forth the terms and conditions for the use of this product. The installation of this product indicates that the BUYER has read and understands this agreement and accepts its terms and conditions

DISCLAIMER OF LIABILITY

XBase and its successors, distributors, jobbers, and dealers (hereafter **SELLER**) shall in no way be responsible for the product's proper use and service. **THE BUYER HEREBY WAIVES ALL LIABILITY CLAIMS.**

The **BUYER** acknowledges that he/she is not relying on the **SELLER's** skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extend beyond the description on the face hereof and the **BUYER** hereby waives all remedies or liabilities, expressed or implied, arising by law or otherwise, (including without any obligations of the **SELLER** with respect to fitness, merchantability and consequential damages) or whether or not occasioned by the **SELLER's** negligence.

The **SELLER** disclaims any warranty and expressly disclaims any liability for personal injury or damages. The **BUYER** acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the **BUYER** agrees to indemnify the **SELLER** and to hold the **SELLER** harmless from any claim related to the item of the equipment purchased. Under no circumstances will the **SELLER** be liable for any damages or expenses by reason of use or sale of any such equipment.

The **SELLER** assumes no liability regarding the improper installation or misapplication of its products.

It is the installer's responsibility to check for proper installation and if in doubt, contact the manufacturer.

LIMITATION OF WARRANTY

xBase (hereafter "**SELLER**") gives Limited Warranty as to description, quality, merchantability, fitness for any product's purpose, productiveness, or any other matter of **SELLER's** product sold herewith. The **SELLER** shall be in no way responsible for the product's open use and service and the **BUYER** hereby waives all rights other than those expressly written herein. This Warranty shall not be extended or varied except by a written instrument signed by **SELLER** and **BUYER**

The Warranty is Limited to two (2) years from the date of sale and limited solely to the parts contained within the product's kit. All products that are in question of Warranty must be returned shipping prepaid to the **SELLER** and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by xBase.

Under no circumstances shall the **SELLER** be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or reinstallation of this product, or any other contingent expenses.

Under no circumstances will the **SELLER** be liable for any damage or expenses insured by reason of the use or sale of any such equipment.

IN THE EVENT THAT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT: THE BUYER MAY PROMPTLY RETURN THIS PRODUCT, IN A NEW AND UNUSED CONDITION, WITH A DATED PROOF OF PURCHASE, TO THE PLACE OF PURCHASE WITHIN THIRTY (30) DAYS FROM DATE OF PURCHASE FOR A FULL REFUND.

THE INSTALLATION OF THIS PRODUCT INDICATES THAT THE BUYER HAS READ AND UNDERSTANDS THIS AGREEMENT AND ACCEPTS ITS TERMS AND CONDITIONS.

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Installation

The Timing WatchDog unit requires a minimum of 5V to operate and it is compatible with 16V systems.

During all forms of use, ensure the unit is not in an area of high electrical noise or heat. Typically this is not a problem. However please use good judgment in selecting a location.

After finding a place to install the unit, lay out the included sensor harness. There are three connectors on four branches of the harness.

1. Power/Ground (Red/Black)
2. TDC Signal/Ground (White/Black)
3. Data/Ground (Brown/Black)

There is a single wire exiting the housing. It is the Tach Output (Blue).

The TDC and Data branches are terminated connectors. Mating connectors are included with the unit.

The TDC sensor needs to be mounted so that a magnet on the crank trigger wheel is directly in front of the sensor when a cylinder is at TDC. The sensor may be off a couple of degrees. Keep in mind the data will be offset the same value as the offset of the TDC sensor. Gap the sensor 0.125" from the trigger wheel. Do not overtighten the jam nut on the sensor.

Configuration

The Data/Ground connector outputs the signal for the data acquisition system. The output is 0v = 0° and 5v = 90°. Connect the data/ground plug to an analogue channel of your data acquisition system.

For RacePak customers using a VNET system, purchase an 'Analogue Interface Module,' part number 240-IM-VOLT. Consult your data acquisition supplier if using a different system. Logging the data from the Timing Watchdog at 50hz will most likely be adequate.

There are three lights on the front faceplate. When the unit is powered, the 'VIN' LED will illuminate. The 'Tach' and 'TDC' LED will flash each time a signal is received from the Tach Output or the TDC sensor.

