

SAVE THESE INSTRUCTIONS

- Your Sport-Tach™ is a precision instrument. Please handle it with care.
- Never drop or insert any object into any opening.
- Do not immerse in water or other liquid.
- Close supervision is necessary when this product is used by, on, or near children.
- Use this product only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.

READ ALL INSTRUCTIONS

When using the Sport-Tach™, basic safety precautions should always be followed to reduce the risk of fire, electrical shock and injury to persons, including the following:

IMPORTANT SAFETY INSTRUCTIONS

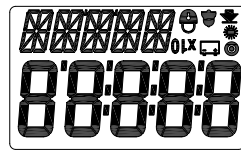
Sport-Tach™

by MONARCH INSTRUMENT

Advanced Spin and Jump Training System



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 www.sport-tach.com



* All LCD segments shown below:

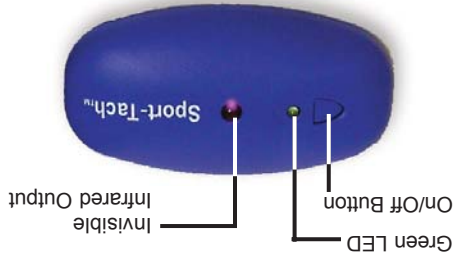
Tripod mounting bushing and Battery compartment (underside)



DISPLAY UNIT FEATURE LOCATIONS:

USB Interface

Belt Loop and Battery compartment on bottom



TRANSMITTER FEATURE LOCATIONS:

(Lock-on mode).

continuous hands-free measurements Unit is "Locked" on and making

Indicates that the Display Unit is on and ready to take measurements.

On Target Indicator. Displayed whenever the Transmitter signal can be sensed.

Times Ten icon. Indicates that the value shown is ten times that which is displayed.

Low Battery icon. Indicates that the batteries are low and need to be replaced.

Indicates that the Display Unit is on and ready to take measurements.

Lock icon. Indicates that the Display Unit is "Locked" on and making continuous hands-free measurements (Lock-on mode).

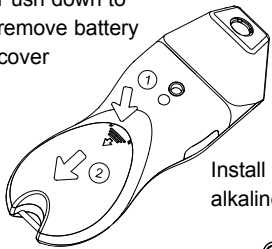
On Target Indicator. Displayed whenever the Transmitter signal can be sensed.

Low Battery icon. Indicates that the batteries are low and need to be replaced.

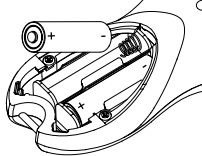
BATTERY INSTALLATION:

Display Unit:

Push down to remove battery cover



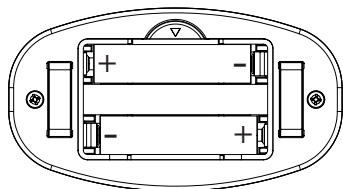
Install two 1.5V "AA" alkaline batteries



NOTE: Both batteries must face the same direction.

Transmitter:

The Transmitter operates on two 1.5V "AAA" alkaline batteries located in the compartment under the waist strap. To install batteries, temporarily pull the waist strap away from the transmitter and remove the battery door. Place batteries into the transmitter, being careful to observe polarity as shown. Replace the battery door and tighten the waist strap again.



Thank you for purchasing a Monarch Instrument product. We hope you are completely satisfied with your purchase.

If you have any questions, please contact:

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FULL ONE YEAR WARRANTY

Monarch Instrument warrants each new Sport-Tach™ system (excluding batteries) against defects in materials or workmanship for a period of one (1) year from the date of purchase and agrees to repair or replace any defective product without charge.





IMPORTANT: This warranty does not cover damage resulting from accident, misuse or abuse, or lack of reasonable care.

NO RESPONSIBILITY IS ASSUMED FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

This warranty gives you specific legal rights, and it is possible that you may have other rights that may vary in the country (state or province) where you are situated.

Sport-Tach™ is a registered trademark of Monarch Instrument, © 2006 patent pending.

BASIC Sport-Tach™ OPERATION:

- Attach the Transmitter with strap to lower back area of skater or other locations depending on the type of spin. Be sure infrared output is not covered by clothing and goes in/out of view of the Display Unit when spinning.
- Push the On/Off button on the Transmitter down until you hear/feel it "click". The green LED will be on and blink slowly to indicate that the Transmitter is operating.
- Turn the Display Unit on by pressing the Start button. 
NOTE: The Display Unit can be Locked on (🔒) by pressing the MENU and Start buttons simultaneously (see Display Unit Button Operation below). 
- Press the MENU button on the Display Unit to select RPM, RPM Max, RPS, RPS Max or Revs as desired. 
- If the Display Unit is Locked on (🔒), just aim the Display Unit at the Transmitter. (Do not hold Start button when Locked on.)
Otherwise, aim the Display Unit at the Transmitter and press and hold the Start button. 
Once the measurement is complete, release the Start button.

DISPLAY UNIT BUTTON OPERATION:



Turn Display Unit On  Unit will remember last settings 

Lock On/Off, Power Off   Locked On symbol 



The first time locks the unit On.
The next time turns the unit Off.

Take Measurements  Press and hold 

(Only when unit NOT locked on)
When unit is Locked on, just aim at the Transmitter.

If unit is Locked on:  Resets the current measurements (RPM, RPM Max, RPS, etc.) 

BASIC Sport-Tach™ OPERATION:




- When finished, press the On/Off button on the Transmitter.
To turn off the Display Unit press and hold the Start button. Then press the Menu button once if the Display Unit is Locked on or twice if it is not Locked on. 





NOTE: You can self-test the system at any time by simply holding the Transmitter 12" (30 cm) from the Display Unit and moving the Transmitter rapidly up and down. The Display Unit will show readings and the On Target Indicator will be on solid or blink on and off.

USB Interface Option:


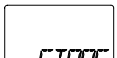
For information on the USB Interface Option, visit www.sport-tach.com.

DISPLAY UNIT BUTTON OPERATION (continued):




Select Measurement format displayed   XXXXX 
Toggles the display between the last RPM, Max RPM, last RPS, Max RPS or Revs each time button is pressed

To enter Memory function   MEM X 
Start to view the 16 Memory locations. Use the up and down buttons to scroll through the memory.

When on the desired memory location, press the Menu button to make this the next storage location.
To clear all memory locations Scroll to Clear All? and press the Menu button twice. Press the Start button to quit.

Store reading   STORE 
Stores the current display reading into the next available/set memory location.

To Replace Waist Strap:

- Slide the waist strap out of the pronged buckle piece (see right). 
- Slide the unbuckled end of the waist strap through both slots on the bottom of the Transmitter. 
- Holding the pronged buckle piece with the grooved center bar facing you, feed the waist strap from behind through the space closest to the buckle prongs (white background facing grooved bar) and then feed the strap back down through the other space and pull tight. See picture below. 

Grooves must be under strap when pulled tight or strap will not bind.



SPECIFICATIONS:



Operating Distance:

4 to 40 feet and ±30 degrees

Speed Range:

5 to 1,000 RPM (Revolutions per Minute)
0.08 to 16.67 RPS (Revolutions per Second)

Accuracy: 1.5 RPM, 0.03 RPS

Total Revolutions: 1 to 99,999 Revs

Display Readout:

5 x 0.5" (12.7mm) numeric digits plus 5 Alpha-numeric LCD

Memory: 16 Memory locations

Batteries:

Display Unit: 2 "AA" 1.5 V (DC) alkaline included

Transmitter: 2 "AAA" 1.5 V (DC) alkaline included

(Note: Batteries are NOT rechargeable.)

Battery Life:

Display Unit: 30 hours continuous typical with batteries provided

Transmitter: 50 hours

Dimensions and Weight:

Display Unit: 6.9" H x 2.4" W x 1.6" D (17.6 H x 6.1 W x 4.1 D cm); Approx. 7 oz (210 g)

Transmitter: 1.9" H x 3.5" W x 0.9" D (4.8 H x 8.9 W x 2.3 D cm); Approx. 2 oz (45 g)

Specifications subject to change without notice.