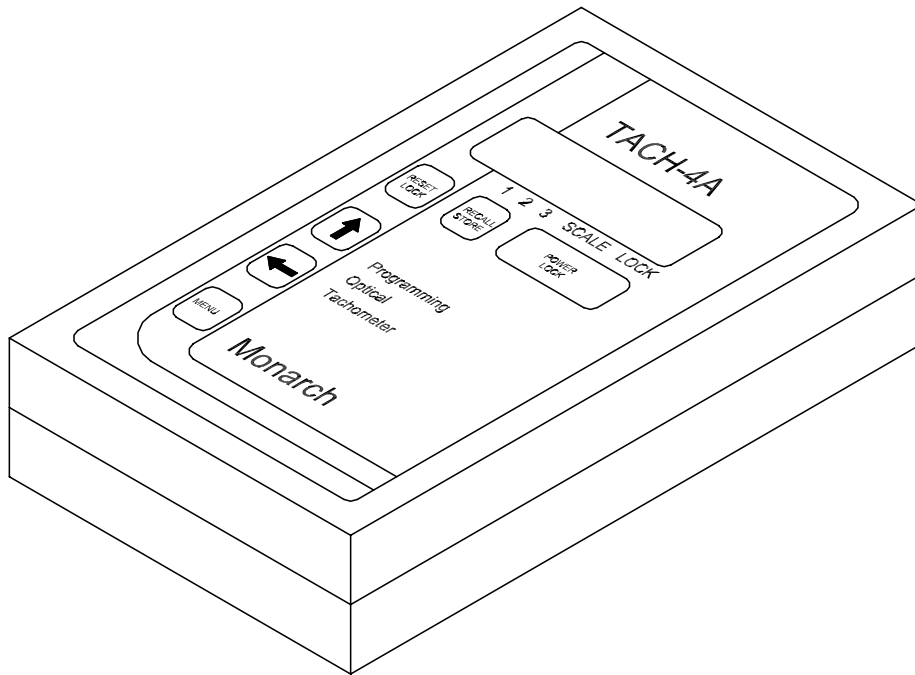


# Speed Test Kit (Tachometer)

## Operation Manual

65-233-302

REV. A  
DATE: 1996-06



**Hanson Research Corporation**  
9810 Variel Avenue • Chatsworth, CA 91311 USA  
(800) 821-8165 • (818) 882-7266 • FAX (818) 882-9470  
[www.hansonresearch.com](http://www.hansonresearch.com)

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**INTRODUCTION:**

The Hanson Research Speed Test Kit (STK) comes with a protective case for storage and handling. This STK will allow the user to verify that the speed of the test station is working correctly. The STK will work on all commercial equipment.

**SELECTING A SITE TO CHECK RPM:**

It is best to set the STK on the base of the unit, where it is flat and easy to see the display. Place an empty flask at the position to be checked, so the STK does not fall into the bath.

**APPLYING THE REFLECTIVE TAPE:**

Always place tape on non reflective surface. If placing tape on top cap, make sure to place tape over set screw. Never place tape on paddle blade, only on shaft where the coating is, *do not use a basket shaft*. Cut a piece of reflective tape 5mm wide and place length-wise on the shaft, Chuck Head or Top Cap.

When checking the B-3 or QC-21 hang tape off of the edge of the round hanging shaft. Cut a piece of reflective tape 15mm wide and let it hang off the edge with the tape staying flat. Always place tape so that the light hits it at the lowest downward stroke position.

**OPERATION:**

It is recommended to read the manufactures manual for the operation of the STK (*Monarch TACH-4A*).

To turn unit on, press	RESET LOCK	and	POWER LOCK
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To clear the min / max, press	RESET LOCK
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To view the new min / max, press	RECALL STORE
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To turn unit off, press	POWER LOCK
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**OPERATION:** CONTINUED

It is always best to let any unit that is to be checked for speed to be on for at least 10 minutes to warm up.

**STEPS**

1. Turn the STK on and place in position.
2. Apply reflective tape as described.
3. Align the light from the STK to hit the reflective tape.
4. Look at the display and see that the STK seems to be taking readings correctly.
5. Clear the min / max and let unit run for 1 minute.
6. After one minute check the min / max and record.

Note that the "Verification of Instrument Speed" page is intended to be copied and filled out, and then placed into the instruments log book.

**PARTS AND SERVICE:**

Reflective Tape P/N 91-202-204

Calibration, contact Hanson Research

**Verification of Instrument Speed**

Using the certified and calibrated Speed Test Kit (STK), follow the procedure indicated in the operation manual P/N 65-233-302. Check and record all applicable speeds.

**Dissolution Spindle Speed**

Test meter calibration certified:    Yes    Rectification Date: \_\_\_\_\_

<b>Instrument Identification</b>	
Model:	Serial #:
Other ID	Firmware Rev.:
Checked By:	Date:

Spindle Speed  $\pm$  4% for all speeds

Set Speed	Minimum Speed	Maximum Speed	Pass / Fail
50 RPM			
100 RPM			
RPM			
RPM			
RPM			

The above spindle speed test (all must pass)

Passed

Failed

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Performed by: \_\_\_\_\_ Date: \_\_\_\_\_