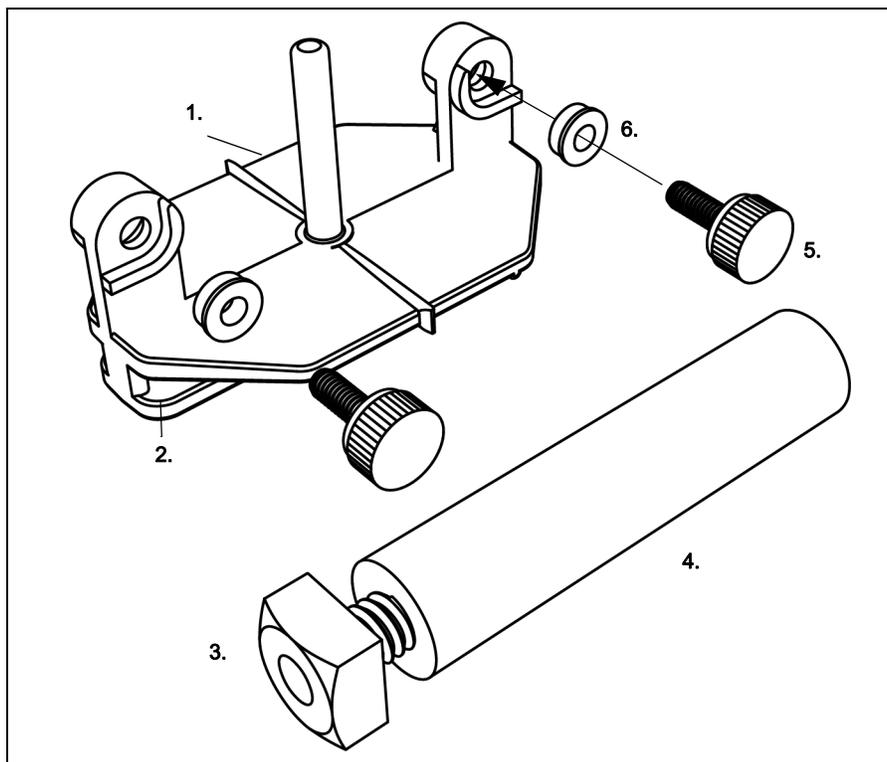


Wireless Centripetal Force Accessory

ME-8094



1	Centripetal Force Accessory Platform	4	Sensor Mounting Rod
2	"Tee" Tab	5	Thumbscrew (X2)
3	Square Nut (1/4-20 by 7/32 inch)	6	Bushing (X2)

Hardware

Included Equipment	Part Number
Wireless Centripetal Force Accessory	ME-8094
Recommended Equipment	Part Number
Wireless Force-Acceleration Sensor	PS-3202
Rotating Platform	ME-8951
Hanger and Mass Set	ME-8979
Physics String (SE-8050) or Thread (ME-9875)	

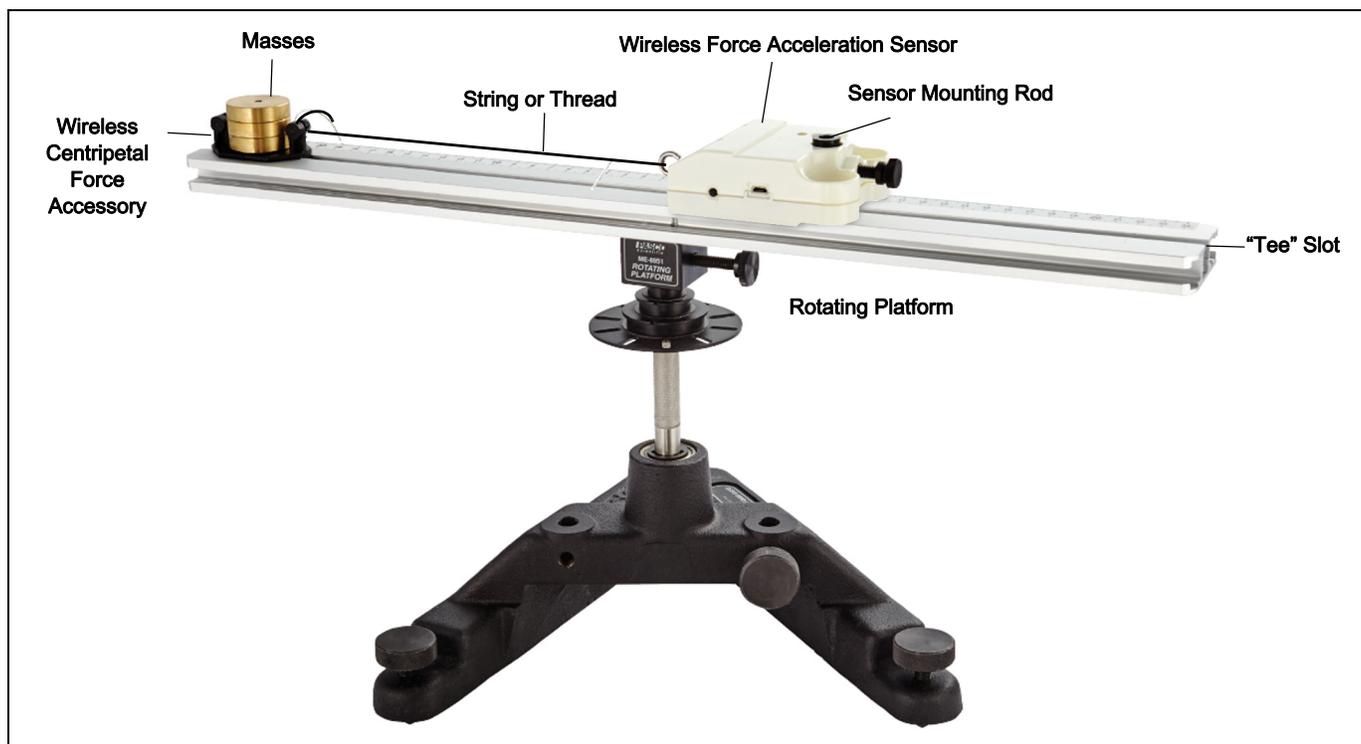
Introduction

The Wireless Centripetal Force Accessory is a low-friction sliding mass holder that connects to a Wireless Force Acceleration Sensor. When installed on a Rotating Platform it supports the direct measurement of centripetal force and acceleration. It can be used with the Wireless Force Acceleration Sensor to explore the relationships among the variables involved in centripetal acceleration and centripetal force.

Vary the mass using the holed masses in the Mass and Hanger Set and vary the radius by simply adjusting the string length. Vary the angular velocity by spinning the Rotating Platform faster or slower. The Wireless Force

Acceleration Sensor measures force along the axis between the metal plate in the front and the thumbscrew at the end. It measures acceleration in three directions (X-Y-Z). When mounted on the Rotating Platform, the sensor measures angular velocity around the Z-axis.

Setup



Slide the “Tee Tab” on the bottom of the Wireless Centripetal Force Accessory into the “Tee” slot on the top of the Rotating Platform. Loosen the square nut on the Sensor Mounting Rod and slide it into the same “Tee” slot. Put the Hook on the end of the Wireless Force Acceleration Sensor and mount the sensor on the Sensor Mounting Rod. Position the sensor so that the end of the hook is at the zero mark on the top of the Rotating Platform. Tighten the Sensor Mounting Rod in position.

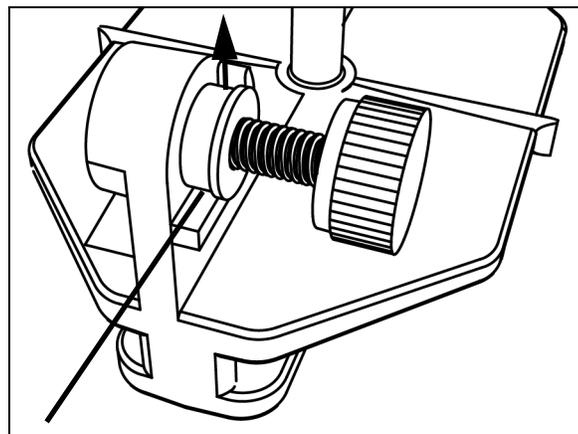
Attach one end of a 30 cm piece of string or thread to the hook on the sensor. Attach the other end to a thumbscrew on the Wireless Centripetal Force Accessory platform (See Details).

Details

Loosen the thumbscrew. Put the string or thread under the bushing as shown. Tighten the thumbscrew. To change the length of the string or thread, loosen the thumbscrew.

Usage

See the PASCO web site at www.pasco.com. Go to the web page for the Wireless Centripetal Force Accessory and click “Video” to see a short demonstration.



Technical Support

For assistance with any PASCO product, contact PASCO at:

Address: PASCO scientific
10101 Foothills Blvd.
Roseville, CA 95747-7100

Phone: 916-786-3800 (worldwide)
800-772-8700 (U.S.)

Fax: (916) 786-7565

Web: www.pasco.com

Email: support@pasco.com

More Information

For more information about the latest revision of this Instruction Sheet, visit:

www.pasco.com/manuals

and enter the Product Number.

For information about the Wireless Centripetal Force Accessory or any PASCO product, what software to use, and what other accessories are available, check the PASCO web site:

www.pasco.com

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