

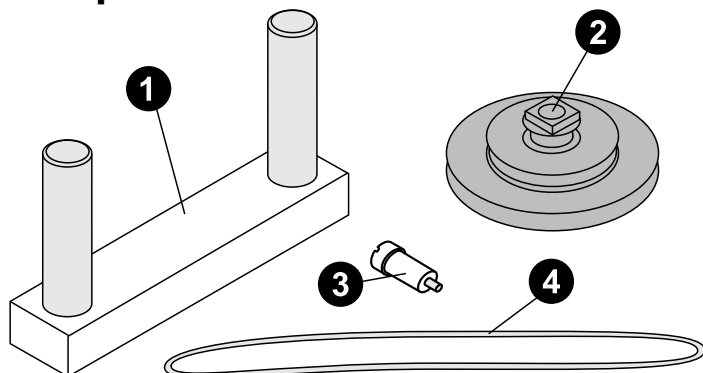
A-Base Rotational Adapter

CI-6690

Introduction

The A-Base Rotational Adapter is designed for use with any PASCO rotary motion sensor. It is used to mount the sensor to the A-base of the Rotating Platform (ME-8951) or Demonstration Gyroscope (ME-8960). The sensor provides higher resolution than a Smart Pulley, and the precession and nutation of the Gyroscope can be plotted via the sensor's measurement of direction of rotation.

Components



- 1 Mounting bracket
- 2 Three-step pulley
- 3 Shoulder screw
- 4 Drive belt (O-ring)

Setup

The adapter includes a mounting bracket, a shoulder screw, a drive belt, and a three-step pulley. The drive belt links the three-step pulley mounted on the A-base to another three-step pulley on the Rotary Motion Sensor, as shown in Figure 1. For a one-to-one correspondence, connect the drive belt to the middle step of each pulley. This will ensure that each revolution of the Rotating Platform or Demonstration Gyroscope corresponds to one revolution of the sensor. If desired, a five-to-one ratio can be attained by putting the O-ring on the top step of one pulley and the bottom step of the other.

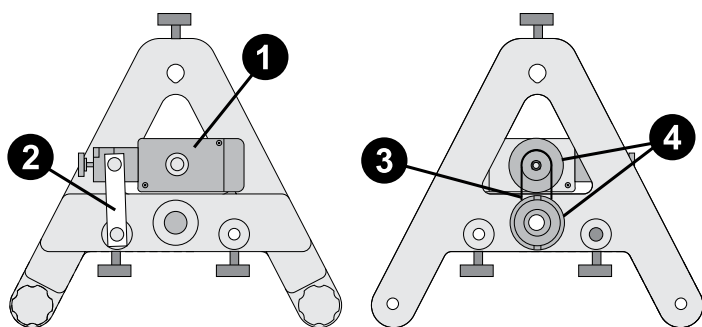


Figure 1: Top view (left) and bottom view (right) of a rotary motion sensor mounted on an A-base. 1: Sensor. 2: Mounting bracket. 3: O-ring. 4: Three-step pulley.

The three-step pulley attaches to the underside of the rotating shaft with the shoulder screw. The pulley should be oriented as seen in Figure 2. The adapter bracket connects to the A-base of the Rotating Platform or Demonstration Gyroscope and to the rod clamp of the rotary motion sensor, as shown below.

NOTE: Using the A-Base Rotational Adapter with a Wireless Rotary Motion Sensor (PS-3220) will require a Rod Clamp for Rotary Motion Sensor (ME-8945).

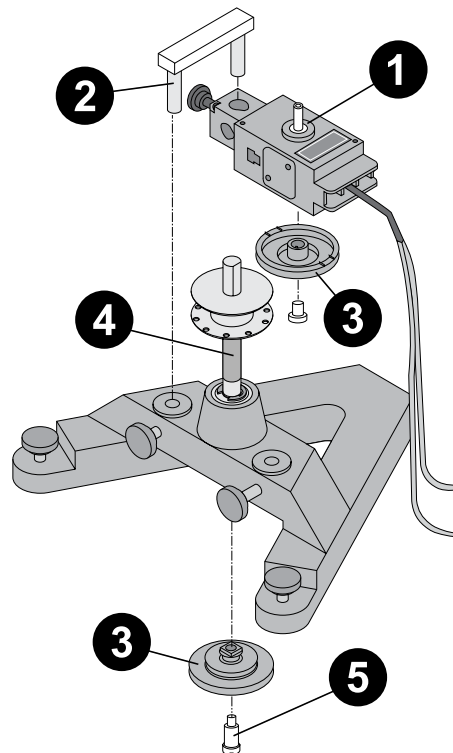


Figure 2: Connecting a rotary motion sensor to the A-base. 1: Sensor. 2: Adapter bracket. 3: Three-step pulleys. 4: Rotating shaft. 5: Shoulder screw.

Technical support

Need more help? Our knowledgeable and friendly Technical Support staff is ready to answer your questions or walk you through any issues.

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Limited warranty

For a description of the product warranty, see the Warranty and Returns page at www.pasco.com/legal.

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