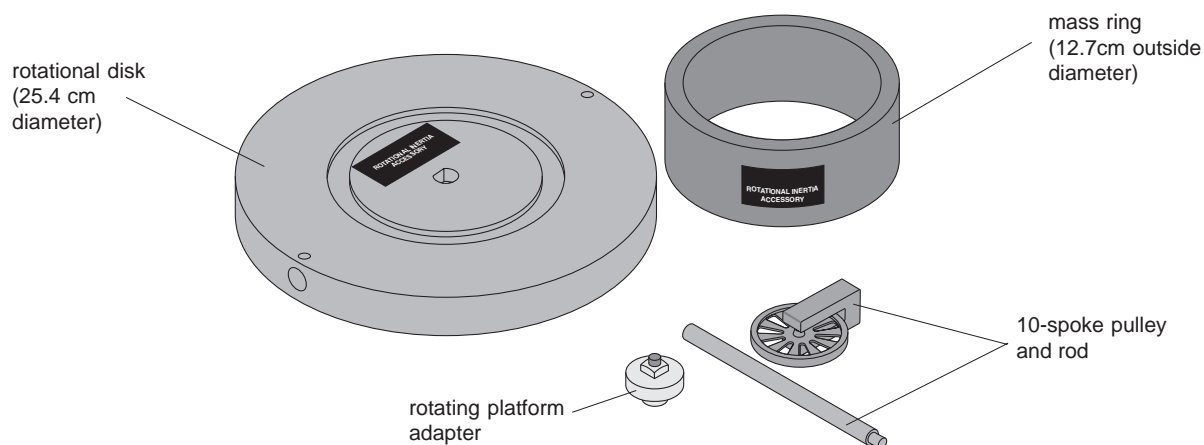


**Instruction Sheet
for the PASCO
Model ME-8953**

ROTATIONAL INERTIA ACCESSORY



Introduction

The ME-8953 Rotational Inertia Accessory allows you to perform rotational inertia and angular momentum experiments. It includes a disk which can be mounted to the rotating base in a variety of positions and at a wide range of radii.

This accessory requires the PASCO ME-8951 Rotating Platform to operate.

See the Complete Rotational System Manual for experiment guide.

Equipment

INCLUDED

- disk with bearings in the center
- ring (12.7 cm diameter)
- adapter to connect disk to platform
- 10-spoke pulley and rod
- 1 spool of thread
- 1 hex key (1/8")

ADDITIONAL REQUIRED

- PASCO ME-8951 Rotating Platform

Specifications

Mass and moment of inertia properties of accessory components. Actual physical properties may vary due to tolerances which occur in the manufacturing process. I = moment of inertia.

Part no.	Description	Mass (kg)	I (kg m ²)
648-07627	9-Inch Disc	1.4kg	0.0091(5)
648-05218	Mass Ring	1.4kg	0.0048(6)

Rotational Inertia Accessory Assembly

Little assembly is required to use the Rotational Inertia Accessory. The rotational disk can be placed directly onto the axle of the rotating base or can be used with the rotating platform via the included platform adapter.

After placing the rotational disk on the axle of the rotating base, use the included wrench to tighten the set screw until snug.

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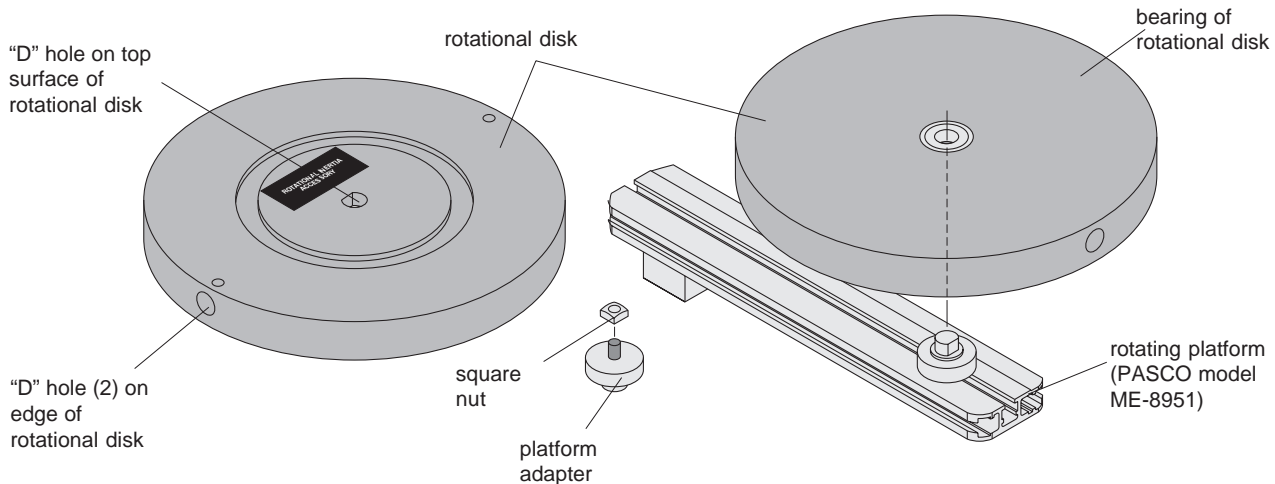


Figure 1: Rotational Inertia Accessory Including Platform Adapter Assembly

Platform Adapter Assembly

1. Attach the square nut (supplied with the Rotational Inertia Accessory) to the platform adapter.
2. Position the platform adapter at the desired radius as shown in Figure 1.
3. Grip the knurled edge of the platform adapter and tighten.

The rotating disk can be mounted in a variety of positions using any of the four holes on the rotation disk.

- Two “D” holes exist on the edge of the disk, located at $180\frac{1}{2}$ from one another.
- One “D” hole is located at the center on the top surface (the surface with the metal ring channel and the PASCO label) of the disk.
- One hole is located at the center on the bottom surface of the disk and is actually the inner race of a bearing. This enables the rotational disk to rotate (in either direction) in addition to other rotating motions applied to your experiment setup.

Limited Warranty

PASCO scientific warrants the product to be free from defects in materials and workmanship for a period of one year from the date of shipment to the customer. PASCO will repair or replace, at its option, any part of the product which is deemed to be defective in material or workmanship. The warranty does not cover damage to the product caused by abuse or improper use. Determination of whether a product failure is the result of a manufacturing defect or improper use by the customer shall be made solely by PASCO scientific. Responsibility for the return of equipment for warranty repair belongs to the customer. Equipment must be properly packed to prevent damage and shipped postage or freight prepaid. (Damage caused by improper packing of the equipment for return shipment will not be covered by the warranty.)

Shipping costs for returning the equipment after repair will be paid by PASCO scientific.

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The exclamation point within an equilateral triangle is intended to alert the user of important operating and safety instructions that will help prevent damage to the equipment or injury to the user.