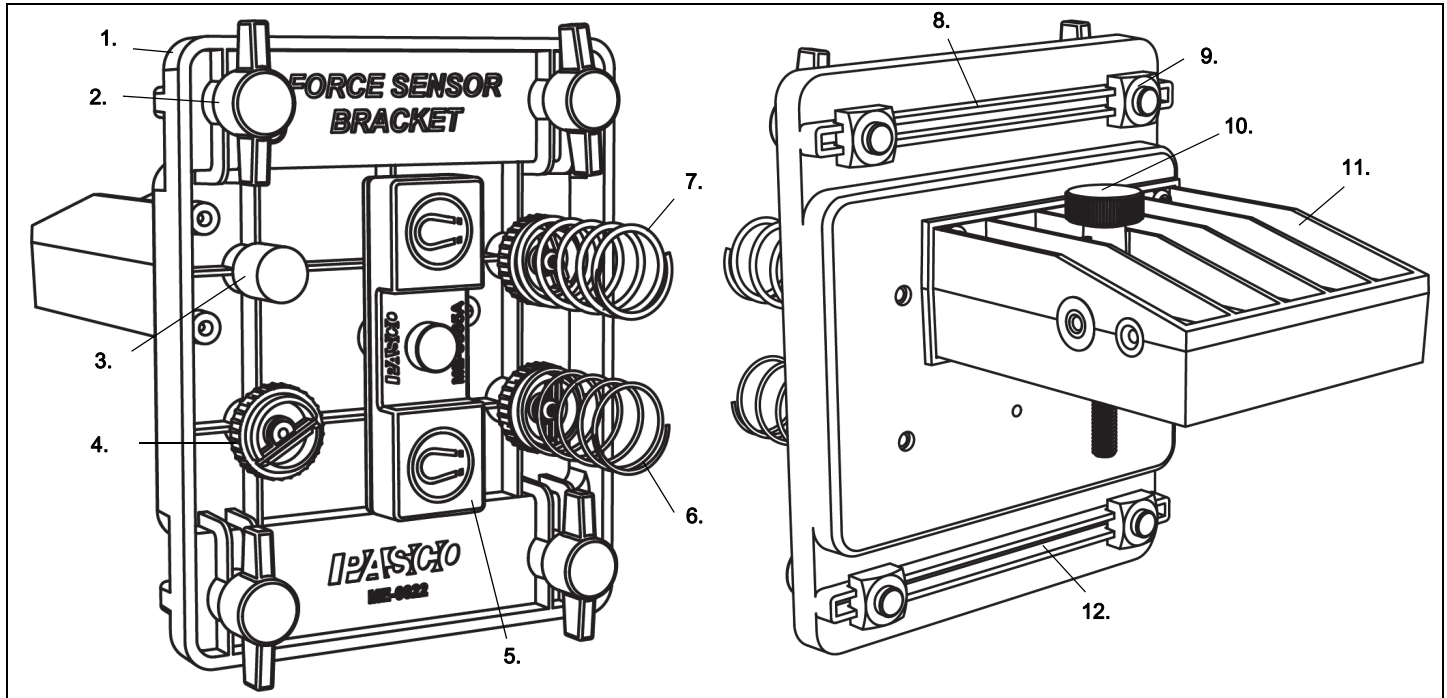


# Force Sensor Track Bracket

ME-6622



## Included Equipment and Features

1. Bracket
  2. T-screws for mounting on track (4 pieces)
  3. Rubber Bumper
  4. Clay Holder
  5. Magnetic Bumper
  6. Light Spring Bumper
  7. Heavy Spring Bumper
  8. Track Rail (upper)
  9. Square Nuts (4 pieces)
  10. Thumb screw for attaching force sensor
  11. Bracket Platform
  12. Track Rail (lower)
- Clay (not shown)

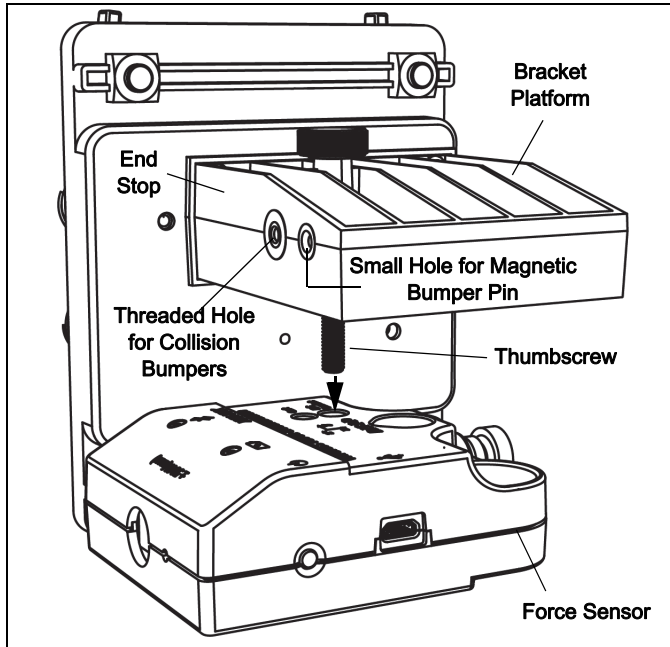
## Introduction

Use the ME-6622 Force Sensor Track Bracket to mount a force sensor on a PASCO track. The included bumpers can be attached to the force sensor or directly to the Bracket for collisions with a PASCO cart. When not in use, the bumpers are stored on the back of the Bracket.



### Attach a Force Sensor

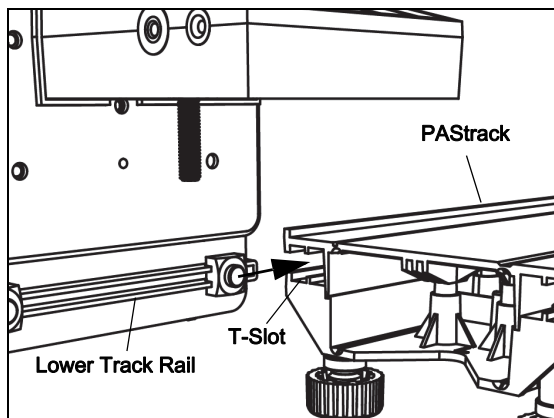
To attach a force sensor to the Bracket, align the thumb-screw on the Bracket with the larger of the two threaded holes on the top of the force sensor.



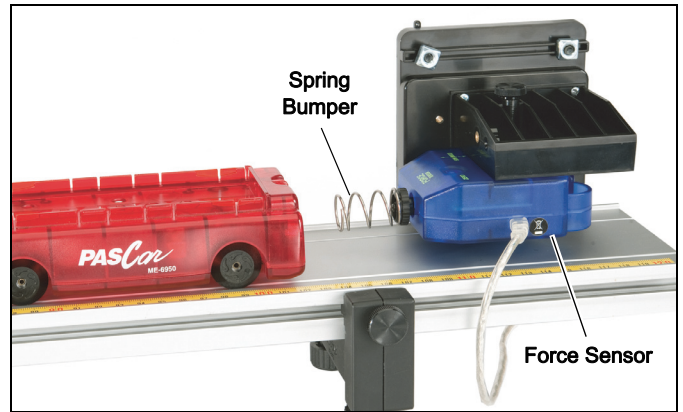
Screw the thumbscrew into the force sensor until the sensor fits snugly against the bottom of the Bracket platform.

### Mount the Bracket on a Track

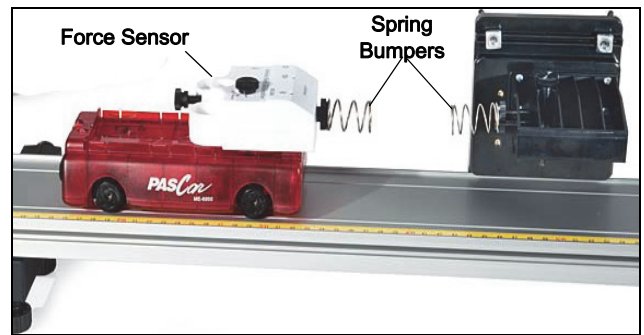
The Force Sensor Track Bracket can be mounted on a PASCO track in two ways. To mount the Bracket on a track with the bracket platform facing down, loosen the thumbscrews so that the square nuts on the lower track rail can slide into the "T-slot" on either side of a PASCO track. Align the square nuts of the lower track rail with the "T-slot" on the track, and slide the Bracket onto the track. Tighten the thumbscrews to hold the bracket in place on the side of the track,



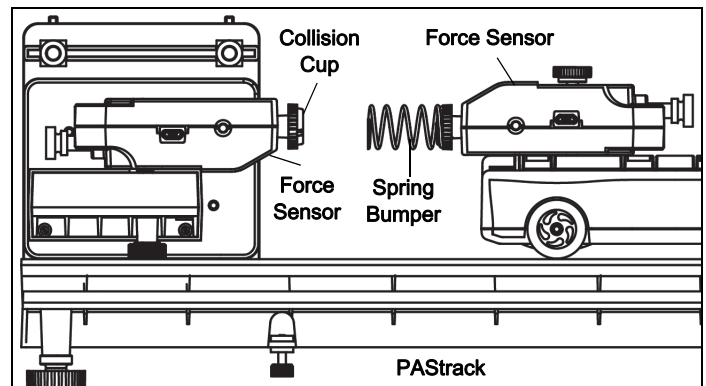
The Bracket can be fastened to the T-slot on either side of a PASCO track. The top edge or the bottom edge of the Bracket can be attached to the track. If the Bracket Platform faces down, then a Force Sensor mounted under the platform will be level with a PASCO cart on the track.



Also, a bumper mounted on the front of the Bracket Platform would be level with a Force Sensor mounted on a PASCO cart.



If the Bracket is mounted so that the flat surface of the Bracket Platform faces upward, a Force Sensor mounted on the Bracket Platform will be level with a Force Sensor mounted on a PASCO cart.



## Using the Collision Bumpers

To use a collision bumper, unscrew it from the storage hole and attach it to the end of the Force Sensor in place of the detachable hook, or attach it to the threaded hole in the Bracket Platform end stop.

**Spring Bumpers:** The two spring bumpers can be used for partially elastic collisions.

**Rubber Bumper:** The rubber bumper will dampen a collision. For example, if the Force Sensor is mounted on the Bracket Platform, and the rubber bumper is attached to the Force Sensor, then a cart that collides with the rubber bumper will rebound with less speed (than if it had collided with a spring bumper),

**Collision Cup:** The collision cup can be filled with a small amount of clay (included). If the clay is formed into a cone shape, the hook on the front of the Force Sensor will stick to the clay for an inelastic collision.

**Magnetic Bumper:** The magnetic bumper can be used for elastic collisions. For example, if the Force Sensor is mounted on the Bracket in the lower position, and the magnetic bumper is attached to the Force Sensor, then the bumper will repel a PASCO cart that has magnets in its end cap.

The magnetic bumper has a small pin next to the screw. This pin fits into the small hole next to the threaded hole on the end stop of the Force Sensor Track Bracket. The pin keeps the bumper from rotating during collisions.

The Bracket is designed for use with PASCO dynamics tracks and all types of PASCO carts and force sensors. The table below is a partial list of compatible equipment.

Force Sensors	Part Number
PASPORT Force Sensor	PS-2104
Wireless Force-Acceleration Sensor	PS-3202
<i>ScienceWorkshop</i> Economy Force Sensor	CI-6746
<i>ScienceWorkshop</i> Force Sensor	CI-6537

### Dynamics Track Systems

See the PASCO catalog or the PASCO website at [www.pasco.com](http://www.pasco.com) for the latest information on Dynamics Track Systems

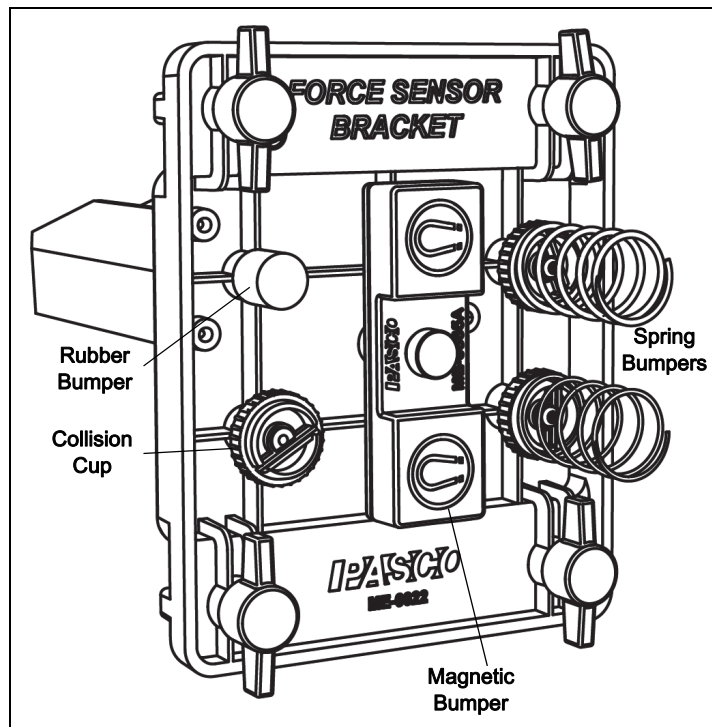
Carts	Part Number
PAScar - Red	ME-6933
PAScar - Blue	ME-6934
PAScars (set of two)	ME-6950
Wireless Smart Cart - Red	ME-1240
Wireless Smart Cart - Blue	ME-1241
Plunger Cart	ME-9430
Collision Cart	ME-9454

### Replacements

PASCO offers a Bumper Accessory Set (ME-9884) that includes the Heavy Spring, Light Spring, Collision Cup, and clay. The Magnetic Bumper Set (ME-9885A) includes two magnetic bumpers that are like the one that comes with the Force Sensor Track Bracket.

## Parts Storage

When not in use, the various parts can be attached to one side of the Force Sensor Track Bracket as shown.



## 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.)

Web: [www.pasco.com](http://www.pasco.com)

Email: [support@pasco.com](mailto:support@pasco.com)

### Limited Warranty

For a description of the product warranty, see the PASCO catalog.

### Copyright

The PASCO scientific 012-15152A document is copyrighted with all rights reserved. Permission is granted to non-profit educational institutions for reproduction of any part of this manual, providing the reproductions are used only in their laboratories and classrooms, and are not sold for profit. Reproduction under any other circumstances, without the written consent of PASCO scientific, is prohibited. **Trademarks**

PASCO and PASCO scientific are trademarks or registered trademarks of PASCO scientific, in the United States and/or in other countries. All other brands, products, or service names are or may be trademarks or service marks of, and are used to identify, products or services of, their respective owners. For more information visit [www.pasco.com/legal](http://www.pasco.com/legal).