

## **PING))) Protector Stand** **with PING))) Ultrasonic Distance Sensor (#910-28015B)** **or stand only (#725-28015)**

The PING))) Protector Stand is a precision-machined mounting bracket cut from 1/4 inch thick high-grade aluminum. With easy installation, this stand can gracefully attach your PING))) Ultrasonic Distance Sensor (#28015) to your robot and protect the sensor from most collisions.



**Note:** A PING))) Sensor is not included in the PING))) Protector Stand kit (#725-28015). A PING))) Sensor is included in PING))) Ultrasonic Sensor + Protector Stand Kit (#910-28015B).

### Features

- Designed to protect your PING))) Ultrasonic Distance Sensor from damage
- Custom CNC-machined from 6061 high-grade aluminum at Parallax headquarters in Rocklin, CA
- Aperture and plastic light pipe allow for visual check of sensor function while mounted to stand
- Two 6-32 (0.144 inch diameter) un-threaded mounting holes
- Dimensions: 1.95 in x 2.20 in x 0.25 in (11.43 mm x 55.88 mm x 6.35mm)

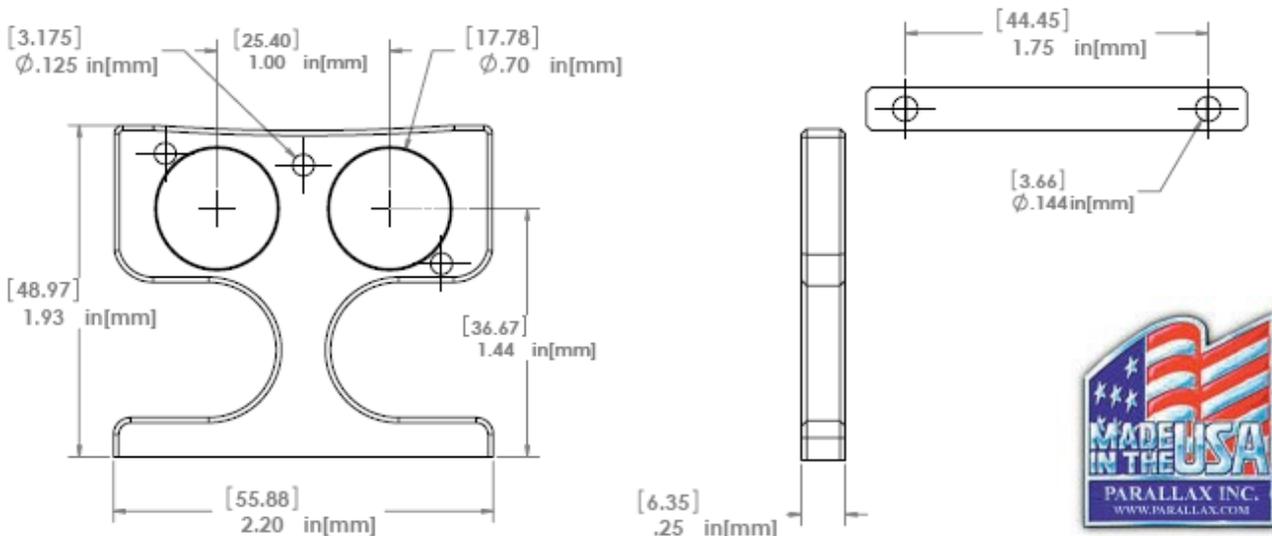
### Bill of Materials

- (2) Pan-head screw, #4-40 1/2" (#710-00006)
- (2) Nylon washer, #4 (#700-00015)
- (2) Nylon spacer, #4 1/4" (#713-00005)
- Plastic light pipe (#720-28001)
- Aluminum Protector Stand (#720-28002)

### Tools Required

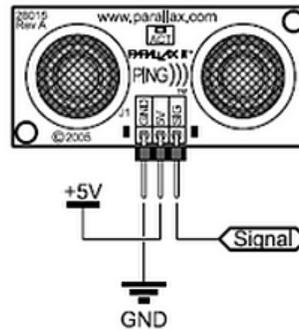
- #1 Philips-head screwdriver
- (2) 6-32 screws for mounting to your platform
- Glue (such as Elmer's)

### Dimensional Drawings

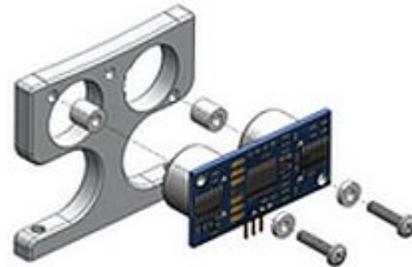


# Assembly Instructions

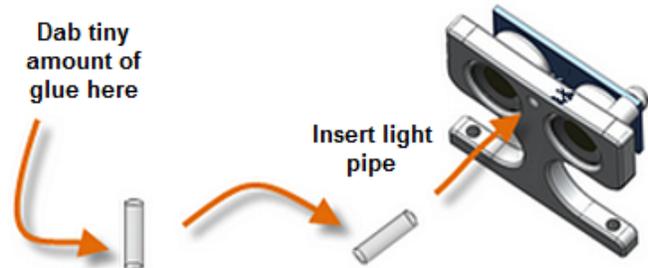
**Step 1:** Make a note of the PING))) sensor pin connections labeled on the front of the PCB. They will not be visible once the sensor is installed into the stand.



**Step 2:** Install the PING))) sensor as shown using (2) ¼" nylon spacers, (2) 1/2" screws, and (2) nylon flat washers (included).



**Step 3:** Place the PING))) stand on a flat surface with the aluminum stand portion facing toward you. Put a tiny dab of glue on the light pipe near the slightly fatter end. Slide the light pipe into the hole on the front of the aluminum stand so that it just barely touches the PING))) sensor's LED. The light pipe will project a little from the front of the stand, but this is normal. It does not have to sit flush with the stand.



**CAUTION:** Do not push the light pipe in further after you feel it touch the PING))) sensor's LED – doing so could damage your PING))) sensor!

**Step 4:** Mount the PING))) Protector Stand and Sensor to your robot. Two holes in the base of the stand are drilled to accommodate size 6-32 screws (not included).



## Revision History

- v1.5 - Updated assembly instructions for easier light pipe installation