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# PING))) and IR Stand w/Hardware (#725-28995)

This handy stand, made of smoke-colored 0.220" thick acrylic, makes it easy to mount a PING)))™ Ultrasonic Distance Sensor (#28015) and a Sharp IR (#28995) sensor to your project. Mounting hardware for both sensors is included.

## Packing List

- (1) Ping))) Ultrasonic Sensor (#28015)
- (1) Sharp IR Sensor (#28995)
- (1) Acrylic PING))) and IR Stand
- (2) 1/16" Nylon spacers (#700-00015)
- (4) 1/4" Nylon spacers (#713-00005)
- (4) #4-40x5/8" black pan head screws (#710-00035)
- (1) Sharp IR Sensor to Servo Cable (#805-28995)
- (1) 3-pin Power-Signal-Ground Cable Extension "16 (#800-00160)

## Additional Items Required

- Small Phillips screwdriver
- 7/32" ball-end hex key (#725-00021)

## Assembly Instructions

**Step 1**: Remove the protective paper from both sides of the Acrylic stand and lay it etched-side down on a smooth, flat surface as shown in the figure.

**Step 2:** As shown in the figure, place a 1/16" spacer onto two screws, and then insert the screws through the PING))) sensor's PCB. Slide a 1/4" nylon spacer onto each screw on the other side of the PCB and then place the assembly onto the backside of the acrylic stand, oriented as shown in the figure. The screws will cut their own threads as you screw them in with a small Phillips screwdriver. Make them snug, but do not over-tighten.

**Step 3:** Insert two screws through the backside of the IR sensor's mounting tabs. Slide a 1/16" and a 1/4" spacer onto each of the screws, line the assembly up with pre-drilled holes in the stand, and screw them, as shown in the figure.

**Step 4:** Pre-drill two holes into the platform



that you want to mount your PING))) - IR stand to. The holes are spaced 1.75" apart. The #6-32 x 1/2" long cap screws will extend about 1/4" into your platform. Depending on the platform, you may wish to drill a through hole, and secure with a washer and nut (not included in this kit). For a cleaner installation, simply drill a slightly under-sized hole (such as with a #36 bit), and have the screws cut their own threads as you twist them into your platform.
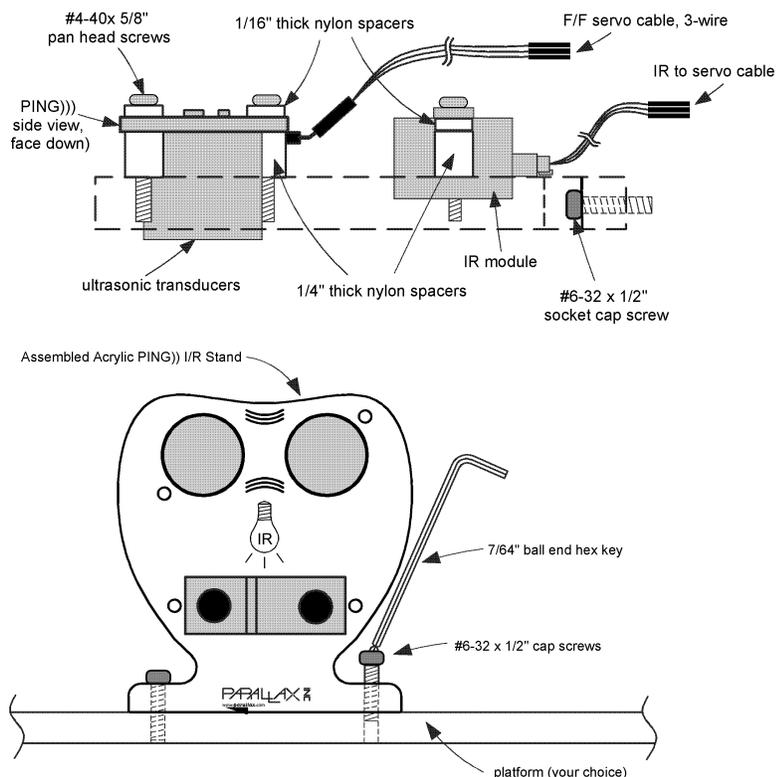
**Step 5:** Connect the cable to the PING))) sensor, and to your control board.  Be sure to observe proper polarity, as shown in the sensor's documentation (#28015).  Connect the polarized cable to the IR sensor.