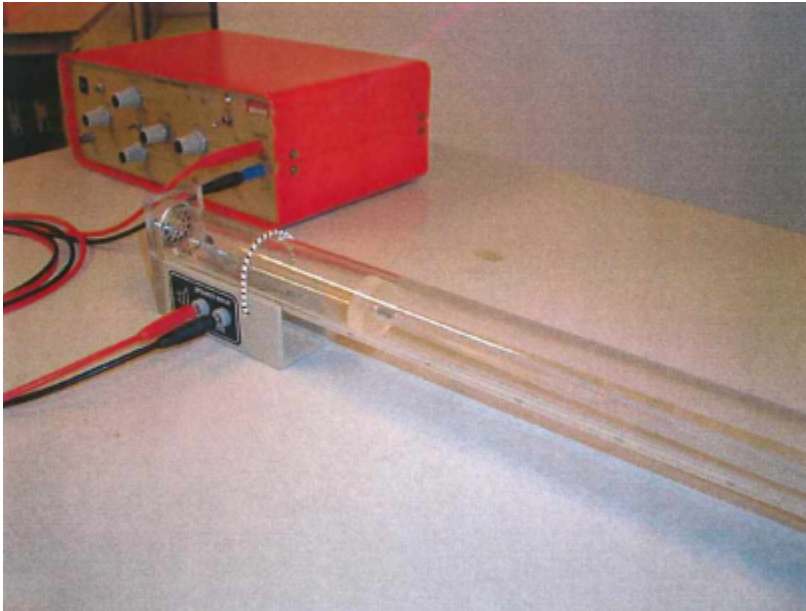
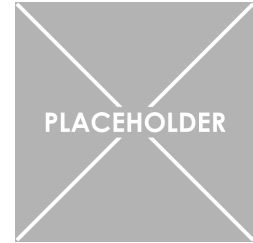


## Resonance Tubes with Sliding Piston

Key words: Resonance, Sound, Standing Wave



### **Equipment List:**

1. Resonance tube
2. Sound sensor
3. Tone generator
4. Cables

### **How to assemble and operate:**

- Connect the tone generator to the resonance tube speaker
- Place the sound sensor near the resonance tube
- Play a known frequency and move the piston until the sound reaches a maximum
- Observe that the piston should be at half the wavelength of the played frequency

### **Description/Theory:**

This demonstration illustrates resonance of sound waves in a tube of varying length.

### **Comments/Notes:**