

INSTRUCTION



SHEET

SPECTROSCOPE (IPS)

BMCO # 15610

PARTS LIST: 24 Spectrum tubes each with 2 caps, four cards of press-out diffraction grating holders (each card provides 6 sets of holders), four cards with 6 press-out slit discs, one envelope containing 24 pieces diffraction grating $5/8"$ X $5/8"$.

SPECTROSCOPE (PROJECT PHYSICS)

BMCO # 15610A

PARTS LIST: 32 Spectrum tubes each with 2 caps, six cards of press-out diffraction grating holders (each card provides 6 sets of holders), six cards with 6 press-out slit discs, one envelope containing 32 pieces diffraction grating $5/8"$ X $5/8"$.

PROCEDURE:

A. ASSEMBLING A SPECTRUM TUBE

1. Select card of press-out slit discs.
2. Remove one disc from card.
3. Remove press-out center piece to leave slit completely clear.
4. Insert slit disc into one spectrum tube cap. Use friction fit and avoid bending disc.
5. Select card of 2 sets of diffraction grating holders.
6. Each set must remain connected in center.
7. Press out one set of holders without separating them in the middle.
8. Remove press-out center discs of holders.
9. Carefully fold holder set.
10. Preferably using tweezers, remove one piece of diffraction grating from its envelope and insert between folded halves of grating holder. AVOID getting fingerprints on diffraction grating.
11. Press fit the grating holder into a black end cap.
12. Blow or shake out any dust or particles in spectrum tube.
13. Mount prepared caps on opposite ends of tube.

B. OPERATING THE SPECTRUM TUBE:

1. Focus Spectrum Tube on light source with diffraction grating cap nearest your eye.
2. Adjust slit cap to be vertical to light source.
3. Turn grating cap so that light spectrum appears on the side of the tube and at right angles to slit.