**INSTRUCTIONS FOR PANTOGRAPH:**

The pantograph is a tool for reproducing an image in enlarged and reduced scales. For both enlargement and reduction, the central pivot screws should always be inserted in holes with the same ratio number in each of the 4 arm sections.

**To Enlarge:**
1. Determine the enlargement ratio and set both F & G in the corresponding holes in the arms
2. Insert and secure the Tracing Point (1) in position B
3. Insert and secure the Lead Holder (2) in position C
4. Insert and secure the Support (3) in position E
5. Insert the suction cup to position A and then attach to the surface of your table
6. Place the original drawing under the Tracing Point
7. Place the paper for the enlarged drawing under the Lead Holder
8. Guide the Tracing Point over the original drawing and press gently on the Lead Holder to create the enlarged image

**To Reduce:**
1. Determine the reduction ratio and set both F & G in the corresponding holes in the arms
2. Insert and secure the Tracing Point (1) in position C
3. Insert and secure the Lead Holder (2) in position B
4. Insert and secure the Support (3) in position E
5. Insert the suction cup to position A and then attach to the surface of your table
6. Place the original drawing under the Tracing Point
7. Place the paper for the enlarged drawing under the Lead Holder
8. Guide the Tracing Point over the original drawing and press gently on the Lead Holder to create the enlarged image

**Helpful Hints**
1. Work on a smooth surface
2. Be sure that the central pivot screws pass through holes with the same ratio
3. Make sure all screws are tightened
4. Tape all papers onto your drawing surface
5. Make sure the suction cup is secure
6. Keep the lead sharp with a lead pointer or sandpaper
7. Replacement leads are 2mm thickness and can be bought in full length which you can cut down or in small convenient lengths.