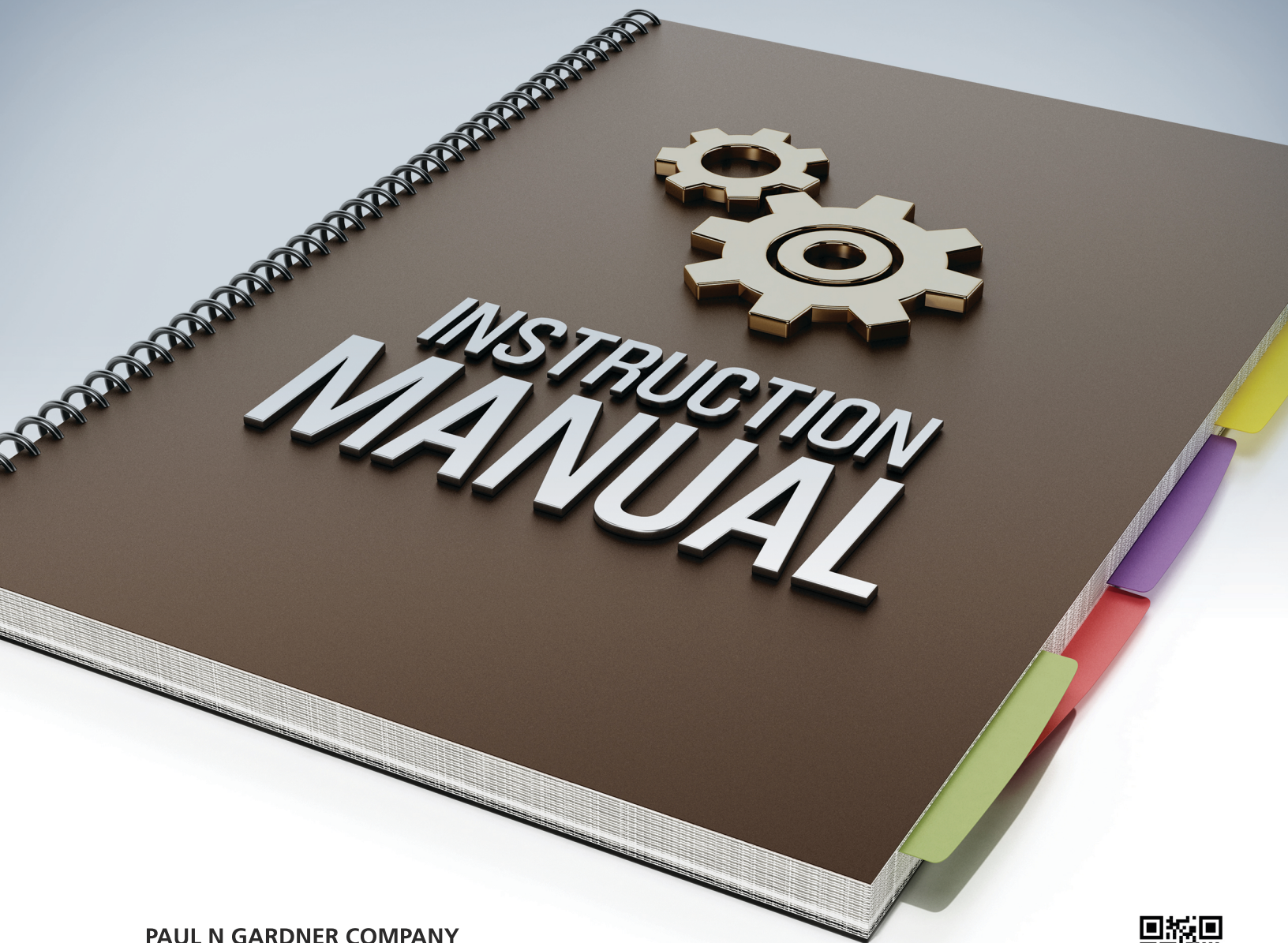




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INSTRUCTIONS

GARDCO DISTRIBUTED PRODUCTS





6" Polariscopes with Tint Plate - Model 243



Made In U.S.A.



Model 243 6" Polariscopes
Tint Plate is located between the
analyzer ring and polarizer

- ***Essential Tool for Checking Strain In Any Transparent Materials***
- ***Large 5.75" Diameter Viewing Area***
- ***View Strains In Color with Tint Plate***
- ***Check Liquid In Glass Thermometers for Strains & Flaws***
- ***Requires Standard 115-125V Power***

Polariscopes are essential tools for determining strain patterns developed during fabrication, manufacture, or use. It can be used to check production items; or in Quality Control to check incoming materials and parts.

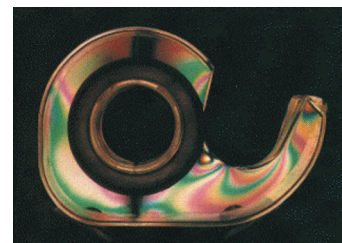
Polariscopes are used to inspect glass welds and bends for strains or flaws. The degree of annealing in fabricated glassware can be shown using the Model 243.

As polarized light travels through strained glass or plastic, it undergoes a retardation proportional to the amount of stress. A polariscopes is an instrument which can be used to qualitatively view this retardation.

The instrument has a generous 5.75" diameter polarizer. The unit plugs into standard 115-125 volt wall sockets. A voltage convertor for 220 volt is available.

Model 243 Specifications

Field diameter.....5.75 in. (14.6 cm)
Unit height18 in. (46 cm)
Power..... 115-125V AC or DC, 7 ft. cord.
Weight 8 lb. (3.6 kg)
Shipping weight 11 lb. (5.0 kg)



The photo shows the strains
in a clear plastic tape dispenser.
The polariscopes shows true strain
patterns in transparent materials.

TOLL FREE: 877-782-2329
OUTSIDE U.S.: 310-478-1134
LOS ANGELES, CA 90064-1482

WEB: [HTTP://WWW.PTC1.COM](http://www.ptc1.com)
E-MAIL: SALES@PTC1.COM
FAX: 310-312-0826



Instructions for set-up and use the Polariscopes:

Slide the Analyzer Ring towards the top of the Support Rod.

Slide Tint Plate about halfway up the Support Rod, giving enough clearance to place your sample between the Polarizer Ring (which is at the top of the Base Assembly) and the Tint Plate.

Plug the cord into a standard 115-125VAC outlet and turn on the unit's light source with the switch on the Base Assembly.

Place the sample to be viewed on top of the Polarizer Ring. Use caution when placing the sample on the glass.

Using the Tint Plate will show the strains in color. If desired, swing the Tint Plate out of the way for a black & white image.

Rotating the Polarizer Ring will adjust the contrast/brightness. The ring can be rotated a full 360°.

The color balance/hue can be adjusted by rotating the glass & full-wave plate in the Tint Plate Ring. Remove the Retaining Ring located on the underside of the Tint Plate Ring and rotate the glass & plate. Replace Retaining Ring after adjustments are made so that the glass & plate are held securely in place.

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