

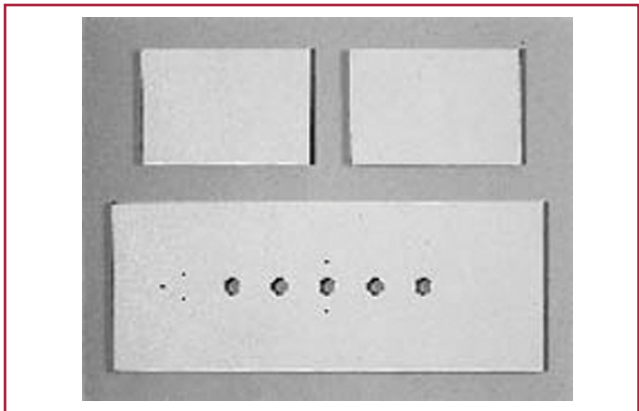
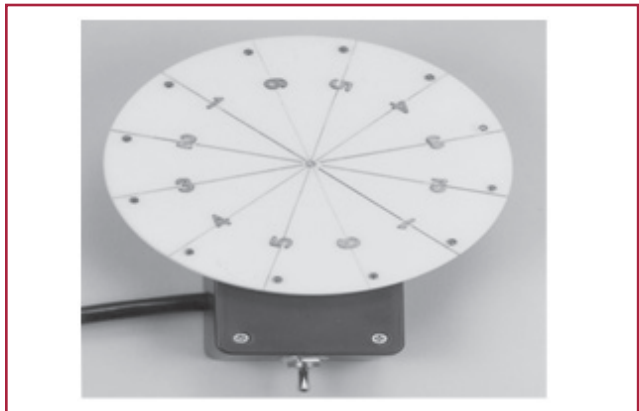


Model L-629

CR/DR TG-116 Filter

L-644

Grid Alignment Test Tool



The Model L-629 Rotating Spoke Test Tool is used to evaluate the performance of fluoroscopic imaging systems. The tool demonstrates screen image lag, motion blur, contrast, and related distortions encountered in fluoroscopic examinations. (per AAPM Report #60)

The Ludlum Model L-644 Grid Alignment Test Kit is designed to confirm that the proper centering and height uniformity of a standard or focused grid is correctly aligned with the central axis of the X-ray beam.

Combined with aluminum or acrylic block attenuators tool provides the user with a means to simulate the movement of guide wires and radiopaque catheters, seen in angiography or cardiac catheterization patient procedures.

The test procedure is simple and requires that the holed test plate is centered to the X-ray table and positioned such that the length of the tool is perpendicular to the direction of the grid lines. One exposure is then made centered over each hole in the test plate.

The rotating spoke test pattern consists of a circular acrylic disk with steel 12 wires arranged on its surface in 30 degree intervals. There are two wires of each of the 6 sizes directly opposite each other on the disk. Lead numbers (1-6) appear on each half of the disk near the perimeter. The disk is mounted on a synchronous motor with a speed of 30 RPM to simulate movement of wires.

After processing, the film (image) is examined for potential changes in optical density. A properly centered and level grid should provide five equal densities on the test film (image).

The visibility of smaller diameter wires 0.356 mm (0.014 in. or less) will confirm the system performance. [3.56 mm (0.14 in.) is a common guide wire size]

The test kit includes one plate, 22.9 x 8.9 cm (9 x 3.5 in.), with five test holes. There are also two blocking plates, which measure 8.9 x 6.0 cm (3.5 x 2.4 in.). All three plates are made of 0.16 cm (0.06 in.) thick lead encased in acrylic material for ease of handling.

Specifications
Part Number: 99-9425

DISK SIZE: 14 x 0.6 cm (5.5 x 0.25 in.) (Dia x Thickness)
POWER: 115 V/60 Hz (available in 220 V)
WIRE DIAMETERS: 0.005; 0.008; 0.010; 0.014; 0.016; and 0.022 inches
Options: Model L-760 Acrylic Modular X-Ray Phantom (part number 99-9413)

Specifications
Part Number: 99-9429

Each test kit includes 3 acrylic-encased lead plates

- One (each) 5-holed test plate
SIZE: 22.9 x 8.9 x 0.16 cm (9 x 3.5 x 0.06 in.)
- Two (each) blocking plates
SIZE: 8.9 x 6.0 x 0.16 cm (3.5 x 2.4 x 0.06 in.)