



ARRESTING GEAR FLUID TRANSFER SYSTEM BOARD TRAINER, DEVICE 2H116

TRAINING CATEGORY:

AVIATION (Aircraft Recovery Equipment)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 2H116 is unclassified.

PURPOSE:

To provide a dynamic visual representation of the arresting gear fluid transfer system.

INTENDED USE:

In Aviation Boatswain's Mate Equipment School for classroom training of enlisted personnel with a basic understanding of the operation of the arresting gear fluid transfer system

FUNCTIONAL DESCRIPTION:

Device 2H116 is a free standing, portable, blackboard type design. The board provides a comprehensive understanding of the Arresting Gear Fluid Transfer System. It illustrates the flow paths (fluid and air) and equipment operation by multi-colored back lighting display to show interaction of equipment involved. The trainer back-lighted panel (BLM) consists of a printed circuit type block diagram to connect the lamps and electronic devices. The backlighting is activated by pushbuttons and switches on the control panel. The equipment is outlined and graphically displayed in relation to the arresting gear engine and the interconnecting fluid piping lines shown. The fluid transfer lines are backlighted in colors to demonstrate the modes of operation for maintenance procedures to transfer fluid from the accumulator and stowage tank by use of air pressure. The backlighting for fluid displacement shows the fluid in yellow color with air being green. The fluid level decreases in the accumulator and increases in the stowage tank. The levels in the system are reversed in filling procedure from the stowage tank.

DIRECTORY OF NAVAL TRAINING DEVICES

PHYSICAL INFORMATION:

Number of Pieces: One (1) stand assembly

Size: 78" High x 34" Deep x
100" Long

Weight: 532 lbs.

POWER REQUIREMENTS:

120 VAC, 60 Hz, 5.0 amp capacity outlet

PUBLICATIONS FURNISHED:

Operations and Maintenance Guide, Trainer,
Arresting Gear Fluid Transfer System Board,
Device 2H116, NAVTRASYS-CEN, P-5353-1 (U).

PERSONNEL:

Instructor: One (1), Chief or 1st Class PO graduate of Aviation Boatswain's Mate Equipment School with actual experience onboard an aircraft carrier.

Operator: Instructor-Operated.

Trainees: Class of up to 50

Maintenance: One (1) hour per 150 hour utilization. (Approximately every 3 months of use)

CONTRACT IDENTIFICATION:

Manufactured by United Scale Models Southwest, Inc., Houston, TX under NAVTRASYS-CEN, Orlando, FL Contract No. N61339-86-C-0136.

LOCAL STOCK NUMBER:

6910-LL-C00-6829