



CATAPULT ROTARY RETRACTION C-13 FLUID FLOW, DEVICE 2H100

TRAINING CATEGORY:

AVIATION (Misc)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 2H100 is unclassified.

INTENDED USE:

For classroom use to train military personnel in the operation and servicing of the hydraulic system of the rotary retraction engine of the C-13 catapult.

FUNCTIONAL DESCRIPTION:

Device 2H100 is a backlighted display panel designed to simulate the sequence of operations of the hydraulic system of the C-13 catapult rotary retraction engine. The display panel depicts

the schematic hydraulic diagram of the electric hydraulic controls and operating components of the C-13 Rotary Retraction Engine.

Hydraulic lines, valves and other components are backlighted in one or two colors as required. Switches are provided which allow sequential backlighting of the activated lines and components and arrows indicate the direction of flow in the hydraulic lines. High and low pressures in various lines are differentiated by a change of two colors and a change of light intensity. The color red indicates medium hydraulic pressure and amber color indicates atmospheric hydraulic pressure. Red or amber colors with reduced light intensity indicates low pressures.

Simulated pistons and piston rods in the backlighted cylinders may be moved manually from one position to the other and the backlighting automatically switches over to the proper color. The hydraulic motor and drum simulates fast and slow rotation in either direction.

The bottom of the display panel frame is provided with two quick-disconnect fittings for attachment to a casted support stand.

DIRECTORY OF NAVAL TRAINING DEVICES

PHYSICAL INFORMATION:

The display panel and support stand are 100" long, 36" wide and 66-1/2" high. The total weight is 305 lbs. uncrated.

INSTALLATION AREA:

12' x 8'

POWER REQUIREMENTS:

115 Volts, 60 Hz

PUBLICATIONS FURNISHED:

Instructor's Guide for Display Panel, C-13
Rotary Retraction Engine, Device 2H100
NAVTRADEV P-3573

PERSONNEL:

Instructors: One (1) qualified to teach principles of operation of the C-13 catapult rotary retraction engine.

Ttrainees: Class of up to 20.

CONTRACT IDENTIFICATION:

Manufactured by Navigate Inc., Clearwater, FL under NAVTRASYSSEN Contract No. N61339-69-C-0267.

LOCAL STOCK NUMBER:

6910-LL-C00-0836