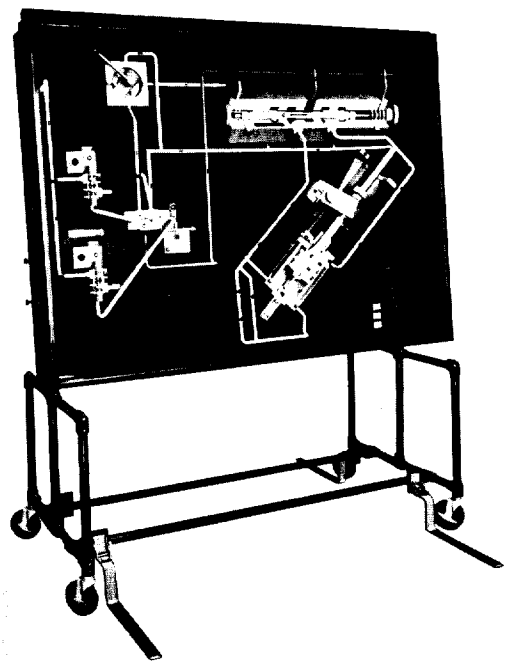

CATAPULT, TYPE C MARK 13, LAUNCHER VALVE CONTROL SYSTEM, DEVICE 2H83

TRAINING CATEGORY:

AVIATION (Misc)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 2H83 is unclassified.

INTENDED USE:

For basic classroom instructions and training in the construction and operation of the cylinders and valves, and the hydraulic fluid flow direction and relative pressure in the piping of the actual Launching Valve Control System for Type C, Mark 13, Catapult.

FUNCTIONAL DESCRIPTION:

Device 2H83 consists of a demonstrator panel mounted on an aluminum pipe stand. The demonstrator panel mounts, the four major component parts of the device, along with associated parts and piping, and three mock connections to the other units of the system not part of the device, simulating the actual Launching Valve Control System for Type C, Mark 13, Catapult. The four major component parts, which are in three-dimensional and sectionalized mockup form are:

1. Hydraulic Lock Panel.
2. Cutout Valve.
3. Launching Valve Control Valve.
4. Launching Valve Operating Cylinder.

The device can be manually operated to demonstrate the functioning and operating of each of the above four major component parts; and the simulated piping of the device indicates by color coding and labeling the direction and relative pressures of the hydraulic fluid flow in the system. The manual operation of the device is accomplished by one control on the front of the demonstrator panel; and two arm controls on the right side on the rear and four push-pull controls on the left side on the rear.

A rollup dust cover is mounted on the top of the demonstrator panel, and this dust cover can be unrolled to cover the face of the demonstrator panel when the device is not being used.

An aluminum pipe stand of the device is equipped with four locking-type swivel casters, and four outrigger folding legs, to hold the device rigid and firmly in position when it is being used.

PHYSICAL INFORMATION:

The demonstrator panel of the device is 65-1/2" wide, 49" high, and 10" deep. The overall dimensions of the device, including the demonstrator panel and the aluminum pipe stand (with its four outrigger folding legs not in use), is 65-1/2" wide, 80-5/8" high, and 30" deep (overall). The complete device weighs approximately 200 lbs. (unpacked).

The device is shipped in a box 78" by 62" by 22" (61.5 cubic feet).

INSTALLATION AREA:

With the four outrigger folding legs moved down the device occupies a floor area 65-1/2" (side to side) and 58" (front to back). To provide ample working space around the device an installation area of at least 12' by 12' is recommended.

PUBLICATIONS FURNISHED:

Instructor's Guide for Training Aid, Demonstrator Panel, Launching Valve Control System for Type C, Mark 13, Catapult, Device 2H83, NAVSO P-2868 (U).

REFERENCE PUBLICATIONS: (NOT SUPPLIED)

Handbook Operation Instructions, Catapult, Type C, Mark 13, NAVWEPS 51-15ABA-1 (Revised 1 April 1963).

PERSONNEL:

Instructor:	One (1), qualified to teach construction and operation of the Launching Valve Control System for Type C, Mark 13, Catapult.
Operator:	Instructor, or trainee, manually operated.
Trainees:	Classroom of approximately 30 students.
Maintenance:	One (1) man to clean and inspect device each week.

CONTRACT IDENTIFICATION:

Manufactured by Lester Associates, Inc., Thornwood, NY under NAVTRASYSCEN Contract No. N61339-1727.

LOCAL STOCK NUMBER:

6910-LL-C00-3378