

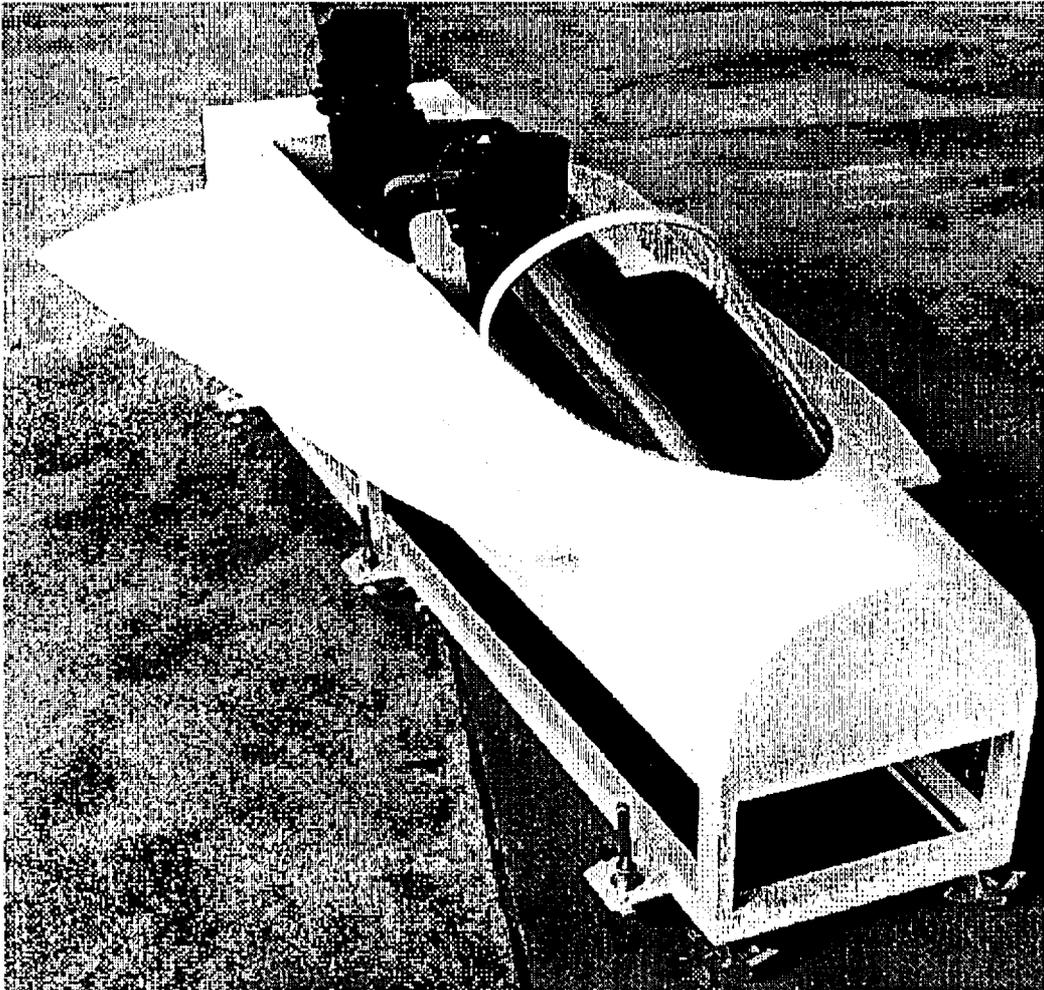
**SUMMARY OF
EJECTION SEAT LABORATORY TRAINER**

APRIL 1998

Device 11H140

NAVAL AIR WARFARE CENTER TRAINING SYSTEMS DIVISION

ORLANDO, FLORIDA



TRAINING CATEGORY:

A School Maintenance Trainer

ORIGINATING AGENCY:

CNO/AIR

SECURITY CLASSIFICATION OF DEVICE:

Device 11H140 is unclassified.

PURPOSE OF DEVICE:

To provide initial training of Aviation Mechanic Equipment Technicians on the removal and re-installation of Naval aircraft ejection seats.

INTENDED USE:

Device 11H140 is used in a classroom environment to demonstrate the modes of operation of ejection seats, including arming, de-arming and removal/installation of ejection seat systems.

FUNCTIONAL DESCRIPTION:

Device 11H140 is a replication of the F-18 cockpit shell. Two replicated Martin Baker seats with mounting hardware are installed in the cockpit shell to allow students to identify components and provide access for maintenance task training. Dimensions of the replicated components are within approximately +/- .01 inch of the actual aircraft equipment.

The 11H140 consists of a support structure, a cover and a boarding ladder. The configuration of the training device shall allow students to perform organizational level maintenance by de-arming, removal, installation and arming of the ejection seat. The seats are replicas of the Martin Baker SJU-5 and SJU-6 ejection seats. The components to be removed/replaced by students shall include the parachutes, seat buckets, drogue gun, time release mechanism and the main beam. The pilot and NFO instrument panels are volumetric mockups with flat panel close-outs and silk-screened replicas of the instrument panels. The LEX of the trainer is used by the students as a maintenance platform while accessing the ejection seat during installation and removal procedures.

The trainer configuration provides the capability to simulate access to and removal of the ejection seat, drogue gun, parachute container, seat bucket, time release mechanism, and the main beam of the SJU5A and SJU6A ejection seats of an F-18 aircraft. The auxiliary equipment consists of the pin puller, cartridge box, catapult blocks, seat bucket handles, primary cartridge spanner wrench and F-18 ejection seat support (transportation cradle).

PHYSICAL INFORMATION:

Training Device 11H140 is 8 feet wide, 15 feet long and 7.5 feet high. Estimated weight of the trainer is 2,000 lbs.

EQUIPMENT REQUIRED (Not Supplied):

None.

POWER REQUIREMENTS:

None.

PUBLICATIONS FURNISHED:

Training System Utilization Handbook Pub. No. NAWCTSD-P-7276 (U)

Operation & Maintenance Manual, Technical ML W/Parts Catalog Pub. No. NAWCTSD-P-7273 (U)

Commercial Off-The-Shelf Manuals CCDS and Vendor Equipment Manuals Pub. No. NAWCTSD-P-7279 (U)

PERSONNEL:

Instructor - One instructor/operator qualified in the maintenance and operation of ejection seat laboratory trainers.

Trainees - Up to three students.

Maintenance Men - One man qualified to perform repair, as required.

CONTRACT IDENTIFICATION:

Manufactured by USM, Inc.,
Houston, Texas, under:
NAVAIRWARCENTRASYS DIV Contract No.
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