

**P-3C AIRCRAFT OPERATIONAL FLIGHT TRAINER, DEVICE 2F87 (F)****TRAINING CATEGORY:**

AVIATION (Operation Flight/Weapon System)

**ORIGINATING AGENCY:**

DCNO/AIR

**SECURITY CLASSIFICATION:**

Device 2F87 (F) is unclassified.

**INTENDED USE:**

To provide facilities that realistically simulate operation of the P-3C Aircraft

Device 2F87 (F) is also used under controlled conditions, for initial pilot and flight engineer check-out, instrument flight practice, emergency procedures drills and, with the tactics section, for complete ASW mission training with respect to the P-3C aircraft.

**FUNCTIONAL DESCRIPTION:**

Device 2F87 (F) provides a realistic environment in which individual operators or entire crews can be trained at their stations in all aspects of their assigned tasks.

The OFT is capable of simulating the complete range of flight characteristics within the P-3C flight parameters. Freedom of motion shall be simulated for 360° in yaw and 80° in pitch and roll.

Complete and realistic simulation can be obtained for the following systems as follows:

- (1) Primary Flight Control
- (2) Secondary Flight Control
- (3) Trim Control
- (4) Automatic Pilot
- (5) Stability Augmentation
- (6) Engine Control
- (7) Lubricating
- (8) Fuel
- (9) Starting
- (10) Propeller Control
- (11) Auxiliary Power Plant
- (12) Hydraulic
- (13) Pneumatic
- (14) Electrical
- (15) Anti-icing
- (16) Air Conditioning and Pressurization
- (17) Flight Director

## DIRECTORY OF NAVAL TRAINING DEVICES

It is possible for the instructor to introduce various malfunctions which might be encountered in the actual aircraft. These malfunctions can be abrupt, progressive or variable depending on the system or systems affected. No malfunction simulation is desirable for any condition which cannot be corrected or compensated for in flight.

When operated in the integrated mode with the tactics section, the following additional systems will be simulated:

- (1) Pilots Display (9" CRT)
- (2) Pilots Keyset

## PHYSICAL INFORMATION:

Although Device 2F87 (F) has been designed for fixed-base installation, consideration has been given to packaging which would facilitate relocation of the device should it be desired.

## ENVIRONMENTAL CHARACTERISTICS:

Air conditioning is required.

## INSTALLATION AREA:

The device is a fixed-base design.

## POWER REQUIREMENTS:

208 VAC, 3-phase, 4-wire

## CONTRACT IDENTIFICATION:

Manufactured by The Singer Co.,  
Binghamton, NY under NAVTRASYSCEN Contract No. N61339-73-C-0106.

## LOCAL STOCK NUMBER:

6930-LL-C00-3278