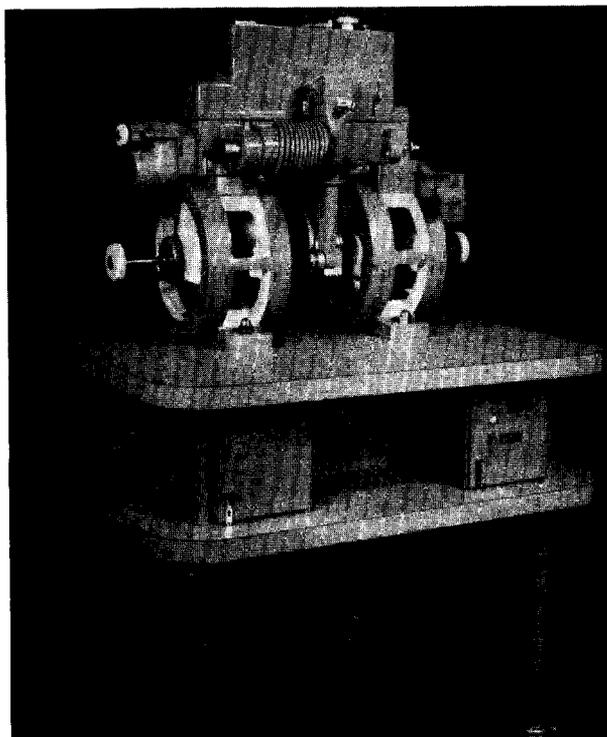


## DIRECTORY OF NAVAL TRAINING DEVICES

**MARINE PITCH CONTROL CUTAWAY MODEL, DEVICE 19E41****TRAINING CATEGORY:**

PROPULSION ENGINEERING (Equipment Maintenance)

**ORIGINATING AGENCY:**

CNET

**SECURITY CLASSIFICATION:**

Device 19E41 is unclassified.

**INTENDED USE:**

The Pitch Control Mockup will be used in instruction and training for the operation and maintenance of the operational Woodward Pitch Control.

**FUNCTIONAL DESCRIPTION:**

The device shall consist of the following major components:

Mockup Pitch Control, Support Stand and Dust Cover.

1. Mockup Pitch Control - shall be an operable, sectionalized model of the Operational Woodward Model 9900-028. The mockup shall be a two times (2) enlarged version of the operational pitch control. The mockup shall be constructed from hard wood plastics, stainless steel and aluminum. The mockup shall be supported by a pedestal with pedestal's top shelf about 40" off the floor. The mockup shall be designed as a classroom aid to teach the functioning/operation of the pitch control and as an introduction to operation service adjustments, and maintenance.

2. The support stand shall be a welded steel tubular structure. The Support shall have a top platform 36" x 36" to support the mockup about 40" above the floor. A second platform about 30" above the floor shall provide temporary storage for parts removed from the mockup assembly during demonstration. These platforms shall be made from 3/4" plywood covered with light grey formica. The stand shall be painted non-specular navy grey. The Support Stand shall rest on four (4)" diameter lockable casters with rubber covered wheels. The spacing of the casters shall be such that the assembly, stand and mockup, can move on a 15° incline without tipping over.

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3. Dust Cover - A dust cover, made of light weight, grey vinyl-coated nylon shall be provided. On the front, the cover will carry the following legend in black block letters: "Woodward Pitch Control, Device 19E41"

## PHYSICAL INFORMATION:

Dimensions and tolerances shall be consistent with functional design, the inherent qualities of the materials used, and assure freedom from Binding in the mechanical fit (See functional description).

## ENVIRONMENTAL CHARACTERISTICS:

The device shall withstand continuous classroom use twenty (20) hours per week for ten (10) years, and shall not be adversely affected in any manner during storage and transportation when under ambient conditions of temperature ranging from -65° to + 166° F, and of relative humidity ranging up to 95%. The design of this trainer shall not incorporate any asbestos materials or any components of which asbestos is a part. (See MIL-T-23991)

## INSTALLATION AREA:

Classroom

## REFERENCE PUBLICATIONS (NOT SUPPLIED):

Woodward Governor Company, Bulletin 36049D - Control System for Controllable Pitch Marine Propellers

## CONTRACT IDENTIFICATION:

Manufactured by Woodward Governor Co., Ft. Collins, CO under NAVTRASYSCEN Contract No. N61339-81-C-0015.

## LOCAL STOCK NUMBER:

6910-LL-C00-6019