



### AUDIO AMPLIFIER TRAINING AID, DEVICE 6B31

**TRAINING CATEGORY:**

BASIC SCIENCE (Electronic)

**ORIGINATING AGENCY:**

CNET

**SECURITY CLASSIFICATION:**

Device 6B31 is unclassified.

**INTENDED USE:**

The training aid introduces to the electronic student the RC coupled amplifier, the direct coupled amplifier, and the audio power amplifier. The student can evaluate the circuits for operation and can connect the training aid as an operational intercom.

**FUNCTIONAL DESCRIPTION:**

Device 6B31 is a solid state audio amplifier that can be connected to another identical training aid to form an intercom system. The training aid is a permanently wired 100 milliwatt output audio amplifier and power supply. Two (2) different type audio preamplifier printed circuit

boards are supplied to be plugged into the training aid to provide a complete audio amplifier. One (1) preamplifier is direct coupled and one (1) is RC coupled.

The transformer type power supply provides a regulated 23 V dc.

The printed circuit boards are horizontally mounted with components exposed to the students when top or bottom cover is removed. Except for power supply boards, all circuit boards are easily removable. All parts are identified by schematic number on the circuit boards.

Numbered test points at input and output of circuits enable the student to easily measure system performance.

**PHYSICAL INFORMATION:**

Device is 7-1/2" Wide x 11" Deep x 5-1/4" High. Weight - 8 lbs net.

## DIRECTORY OF NAVAL TRAINING DEVICES

## ENVIRONMENTAL CHARACTERISTICS:

Classroom environment.

## EQUIPMENT REQUIRED (NOT SUPPLIED):

1. One (1) other 6B31 Audio Amplifier
2. Audio Oscillator, Device 6B22
3. Volt-ohm Meter
4. Oscilloscope

## INSTALLATION AREA:

Classroom Work Table

## POWER REQUIREMENTS:

115 V, single phase, 50/60 Hz.

## PUBLICATIONS FURNISHED:

Device Instruction Manual

## PERSONNEL:

Electronic Students.

## CONTRACT IDENTIFICATION:

Manufactured by NIDA Corporation, Stamford, CT under NAVTRASYS-CEN Contract No. N61339-76-C-0123.

## LOCAL STOCK NUMBER:

6910-LL-C00-4522