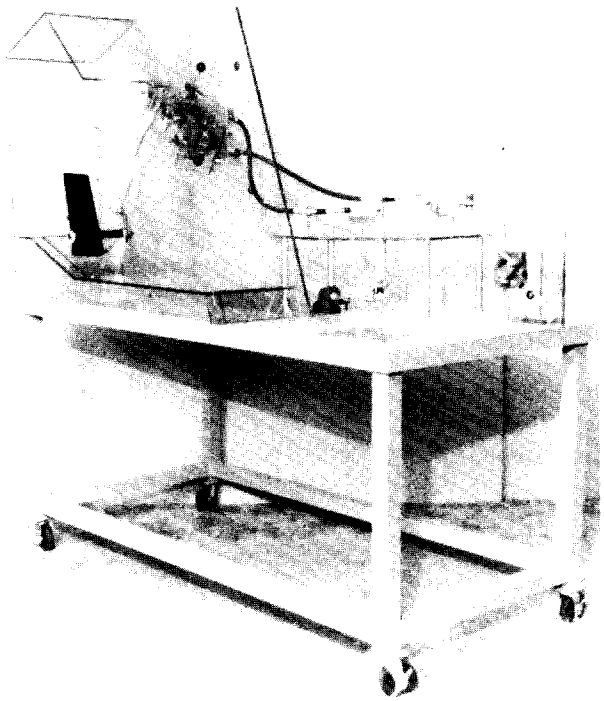

LVT7A1 FUEL CONTROL LINKAGE TRAINER, DEVICE 16C74

TRAINING CATEGORY:

COMBINED OPERATIONS (Amphibious)

ORIGINATING AGENCY:

CMC

SECURITY CLASSIFICATION:

Device 16C74 is unclassified.

PURPOSE:

The purpose of the device is to present an approximately full size operable mockup of the hand throttle and fuel control linkage of the LVT7A1 vehicle so that the principles utilized in operation of the linkages and adjustment points for maintenance of the equipment can be clearly understood.

INTENDED USE:

The training device will be used to provide military personnel a basic understanding of the operation of the vehicle throttle and fuel control linkages and to instruct them in correct maintenance procedures.

FUNCTIONAL DESCRIPTION:

Device 16C74 consists of an accurate representation of the fuel control linkage with easily recognized components in their relative positions in the vehicle. It can be operated and is clearly visible to a small class of students.

The three dimensional mockup is constructed of aluminum and Lexan and wherever possible the actual components such as the hand throttle, fuel control lever and cables have been used so that the configuration is as close to the actual equipment as possible. Other components such as the bellcrank, rod end bearings links and brackets in the linkage assembly are fabricated but

closely resemble the actual components. Components have been arranged so they present a train of action from input at driver station to output for the engine.

A simulated engine bulkhead fabricated of Lexan allows visibility of the internal components and protects observers from contact with moving parts. The display is mounted on polycarbonate plates representing the floor boards and control console.

The mockup of the throttle and fuel control linkage is mounted on a tubular aluminum castered stand which is easily maneuvered to the demonstration area where the casters can be locked to provide a stable unit. It has been designed so there is no danger of tipping.

The major components of the device are labeled to help students become familiar with them and color-coding is used to identify the three main linkages, throttle, acceleration and fuel control.

The linkages operate in a realistic manner and actual adjustment procedures can be performed. All movement is manually operated. An operation chart has been included in the maintenance manual "LVT7A1 Vehicle Fuel Control Linkage Trainer, Device 16C74. NTEC, P-6031 (U)" which is shipped with the trainer.

PHYSICAL INFORMATION:

Unit:	One (1) - Mockup on a stand
Size:	34" W x 72" L x 64-1/2" H
Weight:	Approximately 445 pounds

POWER REQUIREMENTS:

No electrical power is required since Device 16C74 is manually operated.

PUBLICATIONS FURNISHED:

An operation and maintenance guide, "LVT7A1 Fuel Control Linkage Trainer", Device 16C74, NTEC, P-6031 (U)".

PERSONNEL:

Instructor:	One (1)
Operator:	Instructor or trained student
Trainees:	18 to 20 students

CONTRACT IDENTIFICATION:

Manufactured by Ben Lorenz Associates, Inc., Bedford Hills, NY 10507 under NAVTRASYSCEN Contract No. N61339-83-C-0025.

LOCAL STOCK NUMBER:

6910-LL-C00-6379

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