



LVT7A1 ASSAULT VEH HYDRAULICS SYSTEM PANEL, DEVICE 16C80

TRAINING CATEGORY:

COMBINED OPERATIONS (Amphibious)

ORIGINATING AGENCY:

CMC

SECURITY CLASSIFICATION:

Device 16C80 is unclassified.

PURPOSE:

The purpose of the device is to demonstrate the operation of the winch and crane hydraulic systems of the LVT7A1 Vehicle and to provide a means of checking out the functions and capabilities of the system.

INTENDED USE:

The training device will be used to provide military personnel a basic understanding of components and their function in the operation of the crane and winch hydraulic systems with special attention to malfunction possibilities and means be taken for their correction.

FUNCTIONAL DESCRIPTION:

The device is a panel type demonstrator with the left side of the panel representing the electrical system of the engine compartment, the inside and outside of the vehicle. Red LEDs illuminate the lines as components become functional.

Silkscreened lettering identifies components. Valve control lever switches are constructed of Lexan and aluminum and are operable. Actual toggle switches have been used wherever possible.

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At the right hand side of the panel are 3-dimensional, operable mockups of the winch and crane. They are constructed of Lexan and aluminum and PVC. Silkscreened information in black enamel on a medium gray background is clearly legible to a class of 30 to 40 students.

At the right hand end of the panel is a recessed, computerized control panel which can be locked to discourage unauthorized usage.

The panel is enclosed at the rear to protect the electrical system and functioning components from damage, and to prevent unauthorized investigation of the electrical components. High voltage areas are covered and display a warning on top.

The display panel is supported on an aluminum, T-shaped stand, joined at the panel at about 65" from the floor. The T-legs measure 36 inches at the base and are fitted with braked casters to allow for mobility. The unit is stable when the caster brakes are applied.

The computer can be used in normal mode or malfunctions may be inserted which the student must recognize and attempt to correct.

Test points have been provided at which readings can be taken. The Guide provided with the device contains a malfunction and test chart which shows both normal and malfunction test readings.

A nylon reinforced vinyl dust cover has been provided to protect the device between demonstrations.

PHYSICAL INFORMATION:

Unit: One (1) - Panel Type Device

Size: 78" H x 108" L x 36" at base.
The face panel is 48" H and the cabinet housing is 10 inches W.

Weight: Approximately 550 pounds

POWER REQUIREMENTS:

The device operates from a 115 VAC 60 Hertz (Hz), three wire (10.5 Ampere) service. A 20 foot length cable has been supplied to allow flexibility in the display area.

PUBLICATIONS FURNISHED:

An operation and maintenance guide, "LVT7A1 Assault Veh Hydraulics System Panel, Device 16C80, NTEC, P-6036 (U)".

PERSONNEL:

Instructor: One (1)
Operator: Instructor or trained student
Trainees: 30 to 40 students

CONTRACT IDENTIFICATION:

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

LOCAL STOCK NUMBER:

6910-LL-C00-6452