NSCSBS

SE640-AZ-MMM-010

MAINTENANCE MANUAL FOR INPUT/OUTPUT CONSOLE OA-7984(V)/UYK

CHAPTER 1 - GENERAL INFORMATION
CHAPTER 2 - OPERATION
CHAPTER 3 - FUNCTIONAL DESCRIPTION
CHAPTER 4 - SCHEDULED MAINTENANCE
CHAPTER 5 - TROUBLESHOOTING
CHAPTER 6 - CORRECTIVE MAINTENANCE
CHAPTER 7 - PARTS LIST
CHAPTER 8 - INSTALLATION

THIS PUBLICATION SUPERSEDES NAVSEA 0967-LP-307-3010 THROUGH -3030, -3050, -3070 THROUGH -3090 DATED OCTOBER 1970 AND NAVSEA 0967-LP-575-3010 DATED JULY 1975.

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FOREWORD

This technical manual describes the operation and maintenance for Input/Output Console OA-7984(V)/UYK (I/O Console). The publication is for the training of, and use by, personnel responsible for the operation and maintenance of the I/O Console. This maintenance manual supersedes NAVSEA 0967-LP-307-3010 through -3030, -3050, -3070 through -3090 dated October 1970 and NAVSEA 0967-LP-575-3010 dated July 1975 and all changes thereto.

The chapters are as follows:

Chapter 1 - General Information
Chapter 2 - Operation
Chapter 3 - Functional Description
Chapter 4 - Scheduled Maintenance
Chapter 5 - Troubleshooting
Chapter 6 - Corrective Maintenance
Chapter 7 - Parts List
Chapter 8 - Installation

Foldout illustrations and page-sized illustrations are placed as near as possible to the point at which they are first referenced in the text. A foldout illustration is identified in the text by the abbreviation FO.

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SAFETY SUMMARY

GENERAL SAFETY NOTICES.

The following general safety notices supplement the specific warnings and cautions appearing elsewhere in this manual. They are recommended precautions that must be understood and applied during operation and maintenance of the equipment covered herein. Should situations arise that are not covered in the general or specific precautions, the Commanding Officer or other authority will issue orders as deemed necessary to cover the situation.

DO NOT REPAIR OR ADJUST ALONE.

Under no circumstances should repair or adjustment of energized equipment be attempted alone. The immediate presence of someone capable of rendering aid is required. Before making adjustments, be sure to protect against grounding. If possible, adjustments should be made with one hand, with the other hand free and clear of equipment. Even when power has been removed from equipment circuits, dangerous potentials may still exist due to retention of charges by capacitors. Circuits must be grounded and all capacitors discharged prior to attempting repairs.

TEST EQUIPMENT.

Make certain test equipment is in good condition. If a test meter must be held, ground the case of the meter before starting measurement; do not touch live equipment or personnel working on live equipment while holding a test meter. Some types of measuring devices should not be grounded; these devices should not be held when taking measurements.

INTERLOCKS.

Interlocks are provided for safety of personnel and equipment and should be used only for the purpose intended. They should not be battle-shorted or otherwise modified except by authorized maintenance personnel. Do not depend solely upon interlocks for protection. Whenever possible, disconnect power at power distribution source.

WARNING

High-voltage high-capacitance components may contain voltages dangerous to life. Discharge all high-voltage capacitance components to electrical ground before working. (Page 6-47)

CAUTION

In this unit, the DC return is not tied to the chassis. Therefore, for DC waveform and voltage measurements, signal 0V (pink K of connector J2) must be used for ground reference. (Pages 6-19, 6-37)

CAUTION

Clearance between drive motor and electronics unit printed circuit board (see figure 6-14) must be a minimum of 0.015 inch to prevent shorting to motor. (Page 6-24)

Remove power from the logic circuitry before extending drawer to prevent possible damage to logic module cards. (Page 6-42)

Two people must perform steps 4 through 6 to avoid damage to the drawer and the assemblies therein. (Page 6-45)

Exercise care to avoid chipping the pulley. (Page 6-53)

When lifting printing unit, grasp center of tie rod (located in rear of unit) with one hand, and center of rail plate (located in lower front on unit) with other hand. (Page 6-61)

Detent bail is spring-loaded so care must be exercised when assembly screw is removed. (Page 6-62)

Disconnect power to selector magnet driver assembly before removing circuit card to avoid damaging transistors. (Page 6-67)

Care should be taken when replacing motor assembly to ensure no damage is done to printed circuit components of printed circuit board. (Page 6-72)

When nuts are removed (step 3 d.), washers will fall out. Note location of washers for reinstallation. (Page 6-76)

In the event that an overtemperature condition occurs after power is applied, immediately set LOGIC POWER switch to the OFF position. Correct the cause of the malfunction before attempting to resume normal operation. (Page 8-10)

When using a hot air gun to check operation of overtemperature sensors, use caution to prevent possible heat damage sensor and adjust components and wiring. (Page 8-13)