MIL-STD-15-2
30 October 1961
SUPERSEDING
MIL-STD-15A
(See Foreword)

MILITARY STANDARD

ELECTRICAL WIRING EQUIPMENT SYMBOLS FOR SHIPS' PLANS PART 2



COVERNMENT PRINTING OFFICE

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Electrical Wiring

MIL-STD-15-2

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FOREWORD

Standard MIL-STD-15-2 contains a listing of graphical drawing symbols for electrical and electronic parts and recommendations as to their use. These symbols should be used by all who have occasion to prepare electrical or electronic schematic drawings for the Departments of the Army, the Navy, and the Air Force.

During the preparation of Standard MIL-STD-15-2 it was recognized that a need existed for the coordination of drafting symbols and drafting practices used by the Military, to make them compatible with those in private industry and accepted nationwide industry standards.

The symbols contained in Standard MIL-STD-15A were considered carefully in the preparation of Standard MIL-STD-15-2 and where there was no good reason for making a change, their use was adopted. In many instances symbols generally accepted in practice were selected, even though more definitive pictorial symbols could have been devised. Certain new symbols have been included to cover items which have come into use since Standard MIL-STD-15A was adopted, or to more clearly identify given types of items. Certain symbols that relate to obsolete items, and to items covered by other standards were omitted.

Since the symbols used in chapters 4 and 5 of Standard M1L-STD-15A, dated 1 April 1954 have limited and specific applications, Standard M1L-STD-15 is being published in three parts as follows:

- Part 1-Graphical Symbols for Electrical and Electronic Diagrams.
- Part 2—Electrical Wiring Equipment Symbols for Ships' Plans
 The symbols contained in Part 2, herein, constitute those formerly
 contained in chapter 4 of Standard MIL-STD-15A.
- Part 3—Electrical Wiring Symbols for Architectural and Electrical Layout Drawings.

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ELECTRICAL WIRING EQUIPMENT SYMBOLS FOR SHIPS' PLANS

1. SCOPE

- 1.1 Purpose. The purpose of this standard is to establish a uniform system of graphic symbols for use on drawings and plans of shipboard (marine) electrical installations. Standard electrical symbol designations shown in the Standard Electrical Symbol List NAV-SHIPS 250-560-3 provide a means of correlating graphical symbols, when shown on drawings, with parts lists and descriptions of and instructions concerning the wiring.
- 1.2 Scope. This standard establishes the principles governing the formation and application of symbols for electrical wiring equipment to be used on ships' plans and provides a general list of such symbols. It does not cover electronic equipments aboard ship, which will be found in Standard MIL-STD-15-1, although it does cover wiring appliances used in their power supply systems.
- 1.3 Abbreviations shall be in accordance with Standard MIL-STD-12. Letter combinations used as parts of the graphical symbols are not abbreviations.
- 1.4 Items are identified by colloquial names to facilitate identification of parts. For standard item names see Part I of the Federal Item Identification Guides for Supply Cataloguing, H6-1.
- 1.5 A buildup (composite) symbol can be contrived from basic symbols.

2. REFERENCED DOCUMENTS

2.1 Not applicable.

3. DEFINITIONS

3.1 Not applicable.

4. LIST OF SYMBOLS FOR MARINE EQUIPMENT

- 4.1 The graphic symbols (items) in this list are arranged by item number indicating a generic class. The item number is not significant other than to distinguish between classes. The initial decimal portion of the complete item number indicates a further breakdown of symbols by type or functional designation, usually in alphabetical sequence. Further decimal subordinations indicate a symbol designed for a specific single function arranged alphabetically in order of the name modifiers. Thus the use of this decimal, item-numbering system for each symbol permits changes and revisions, or insertions, to be made conveniently, and without regard for paragraph and section numbering.
- 4.2 To locate the symbol for a specific part, find the item number under the colloquial or functional name in the index.

LIST OF SYMBOLS

5.3 Box, switch, telephone 2 BOXES, GENERAL 5.4 Dimmer for torpedo firing panel 2.1.1 Branch 2.1.2 Connection 5.5 Fire alarm system mercurial thermostal 5.7 Jacks 5.8 Panel, sector control for air defense 5.9 Panel, torpedo firing 3.1.1 AC without phase failure 3.1.2 AC with phase failure 3.1.3 DC 3.2 Nonautomatic or push button control 3.2.1 AC 3.2 Controller with low voltage release, recloses upon return of power 4 CASUALTY POWER SUPPLY EQUIPMENT 5 COMMUNICATION EQUIPMENT 5 COMMUNICATION EQUIPMENT 5 COUNTER, SHAFT REVOLUTION	1 APPLIANCES; MISCELLANEOUS WIRING (GENERAL)	5.2 Box, plug and receptacle, gyrocompass repeater
2 BOXES. GENERAL	<u> </u>	
5.4 Dimmer for torpedo firing panel 2.1 Buildup examples 2.1.1 Branch 2.1.2 Connection 2.1.3 Distribution 5.6 Indicators 5.7 Jacks 2.1.4 Junction 5.8 Fanel, sector control for air defense 2.5 Panel, torpedo firing 3.1 Automatic: 3.1.1 AC without phase failure 3.1.2 AC with phase failure 3.1.3 DC 3.2 Nonautomatic or push button control 3.1 AC 3.2 Nonautomatic or push button control 3.3 DC 4 CASUALTY POWER SUPPLY EQUIPMENT 5.4 Dimmer for torpedo firing panel 5.5 Fire alarm system mercurial thermostat 5.6 Indicators 5.7 Jacks 5.9 Panel, sector control for air defense 2.1 AC with phase failure 6 CONTROLLER, MOTOR (GENERAL) 7 COUNTER. SHAFT REVOLUTION		
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	5.1 Annunciator for torpedo panel	/ COUNTER, STAFT REVOLUTION

LIST OF SYMBOLS

8 FANS		10.9 Special
8.1 Fan, portable brac	ket	\otimes
	Ony	10.10 Overhead, fluorescent
8.2 Fan, overhead	\odot	Ö
	\odot	Arrows show direction of tubes
9 HEATERS		10.11 Overhead fluorescent with separately controlled
9.1 Heater, general		red and white sections
	•	
9.2 Heater, portable ra	diant	10.12 Overhead fluorescent
	(a) rep.	\bigcirc
10 LIGHTING UNI	T\$	Short arrow shows direction of maximum in- tensity when sidewise light distribution is
10.1 Bulkhead		asymmetrical
10.2 Bulkhead, berth	\triangle	10.13 Overhead, fluorescent with separately controlled red and white sections
	\Box	•
10.3 Hand lantern	Φ	Short arrow shows direction of maximum in- tensity
10.4 Navigational		11 PLUG
	\triangle	
10.5 Night flight		12 RECEPTACLE OR OUTLET
To a right ingit	\bigoplus	13 SWITCH
10.6 Overhead		13.1 Push button
TO.O OVERTICAL	\bigcirc	
	\otimes	13.2 On-off
10.7 Overhead, magazir	ne e	-X-
	Θ	13.3 Selector
10.8 Portable		MARIE OF BULKHEAD
	0.	13.4 Snap
	LY Th	\boxtimes

LIST OF SYMBOLS

13.5 Transfer	16.6 Rectifier, arc
₩	*
13.6 Water switch	17 TELEPHONE EQUIPMENT
	17.1 Box, jack, with volume control
14 SWITCH AND RECEPTACLE	MPV
¥ Ø	17.2 Box, telephone ringer
15 SWITCH (CONTACT MAKER) (GENERAL)	(E)
-	17.3 Hand set, sound powered telephone
15.1 Buildup examples	Onn
15.2 Sensitive switch type	17.4 Telephone, wall type
15.3 Motor operated	-
•	
15.4 Pressure operated	"A" represents type letter
٠	17.5 Telephone desk type
15.5 Temperature operated	
- <u></u> -	"A" represents type letter
16 SOUND MOTION PICTURE EQUIPMENT	18 TRANSMITTERS, INDICATORS, RECORDERS
16.1 Amplifier, motion picture	For the following and any other similar applica-
MP	tions: Anemometer
16.2 Mönitor, loudspeaker	Engine control
	Wind direction and intensity Linguie order and revolution telegraph Steering telegraph and rudder angle indicator
16.3 Panel, control	Shaft revolution Oil burner telegraph
w.P.	Underwater log system Shaft torsion
16.4 Phonograph unit	18.1 Indicators
WP Ph	
16.5 Projector	
M P	The number of lines used in the symbol significant the indicator is double triple, etc

18.2 Transmitter and indicator combination

18.3 Recorders

18.4 Transmitters

18.4.1 Master transmitter

18.5 Special indicators

18.5.1 Salinity indicator

18.5.2 Shaft revolution indicators, frequency-control

unit

LIST OF SYMBOLS

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Copies of specifications, standards, drawings, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.

Copies of this standard for military use may be obtained as indicated in the general provisions of the Department of Defense Index of Specifications and Standards.

The title and identifying symbol should be stipulated when requesting copies of military standards.

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Air Perce—AMC

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