

DETAIL SPECIFICATION SHEET

SWITCHES, ROTARY, ENCLOSED, SUBMERSIBLE (15 FEET), SNAP ACTION,  
500 VOLTS ALTERNATING CURRENT/250 VOLTS DIRECT CURRENT, 30 AMPERE,  
SYMBOLS 838.1 (DPDT), 840.1 (DPDT), AND 851 (TPST)

This specification is approved for use by all Departments and Agencies of the  
Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and the  
latest issue of MIL-DTL-15743.

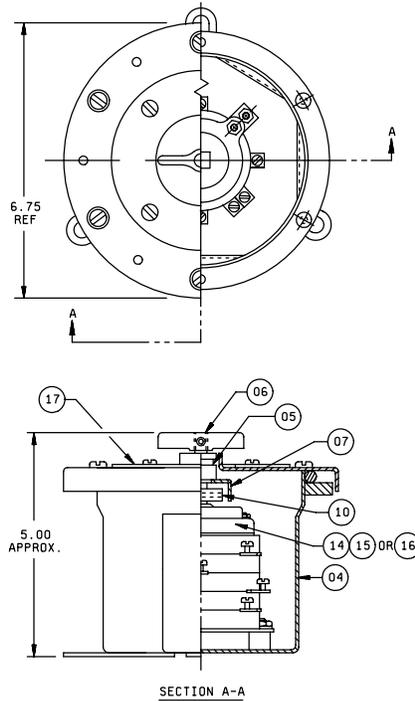


FIGURE 1. Switch, enclosed (typical). 01, 02, 03

NOTES:

1. All dimensions in inches.
2. Unless otherwise specified herein, tolerances shall be as follows:
  - Two place decimals - plus or minus 0.02.
  - Three place decimals - plus or minus 0.005.
  - Angular dimensions - plus or minus 30 minutes.

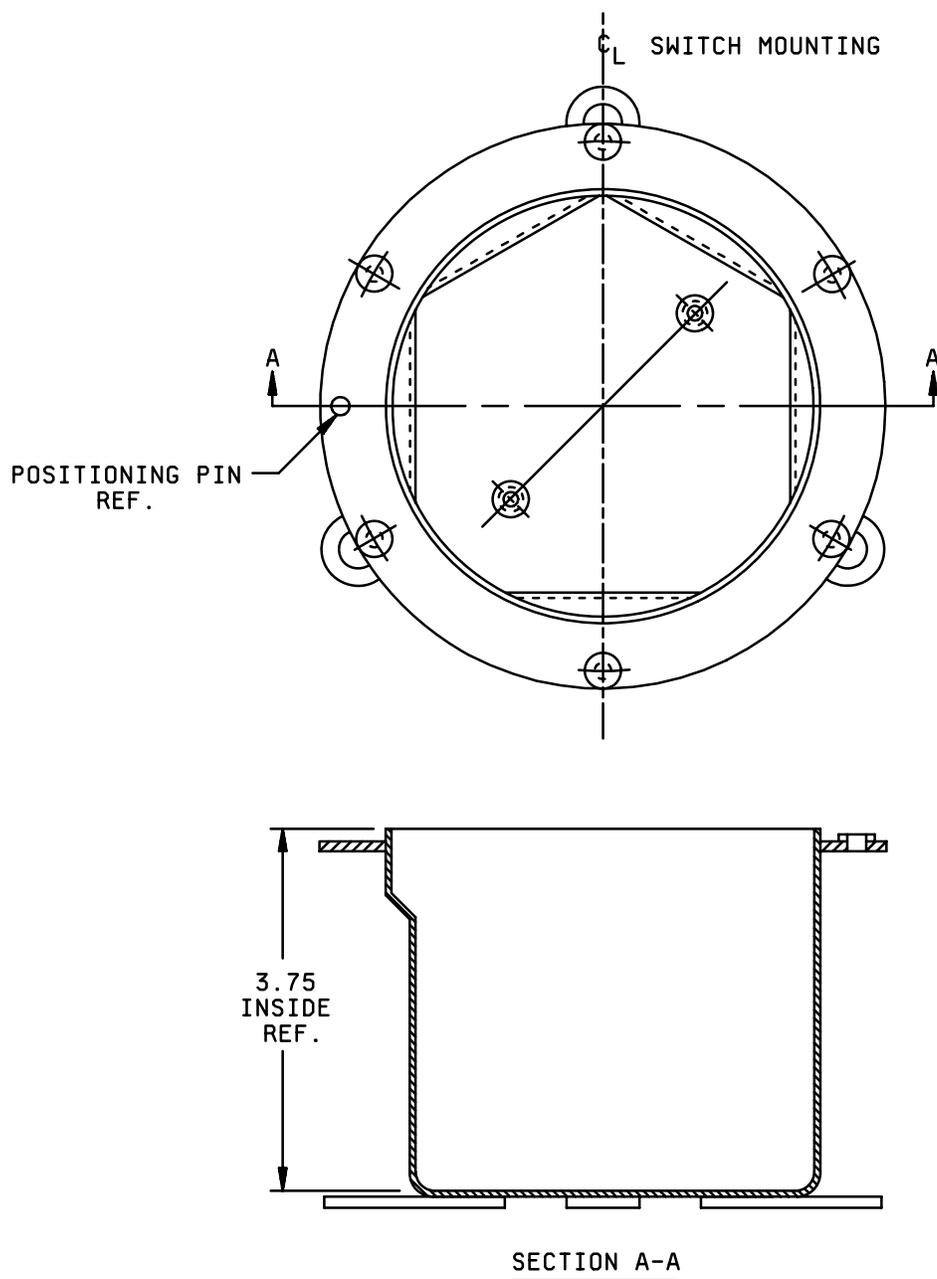
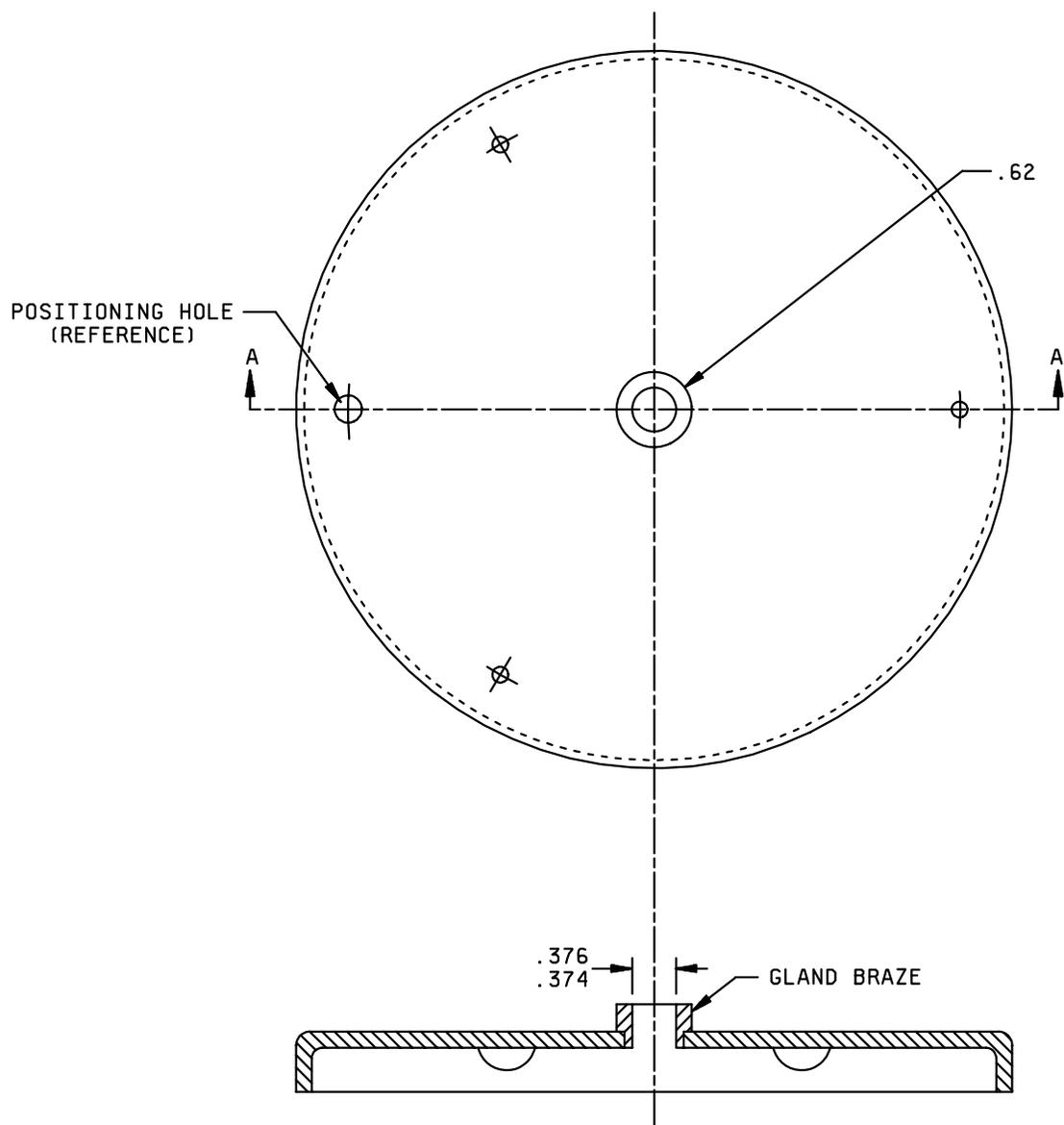


FIGURE 2. Box assembly.



SECTION A-A

FIGURE 3. Cover assembly.

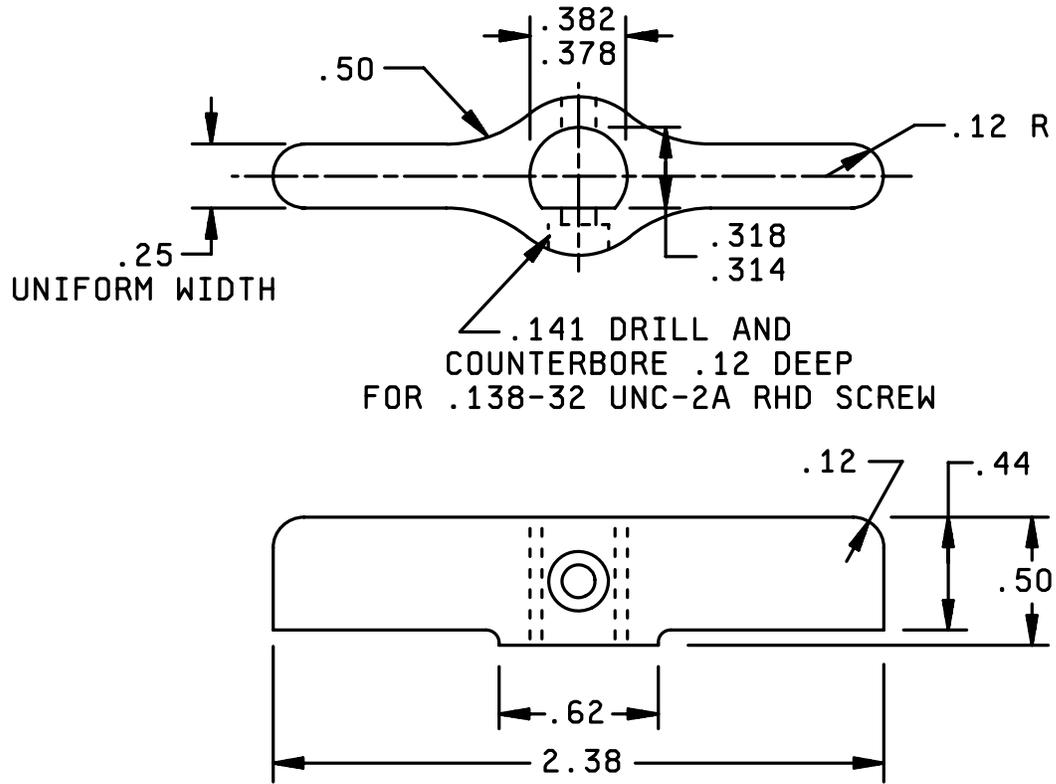


FIGURE 4. Handle. (06)

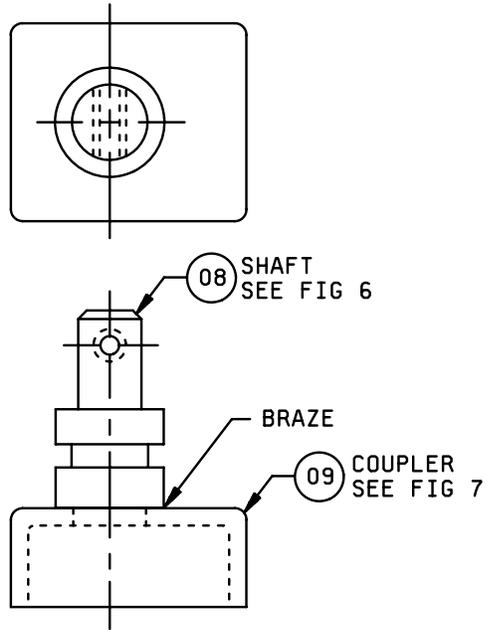


FIGURE 5. Shaft assembly. (07)

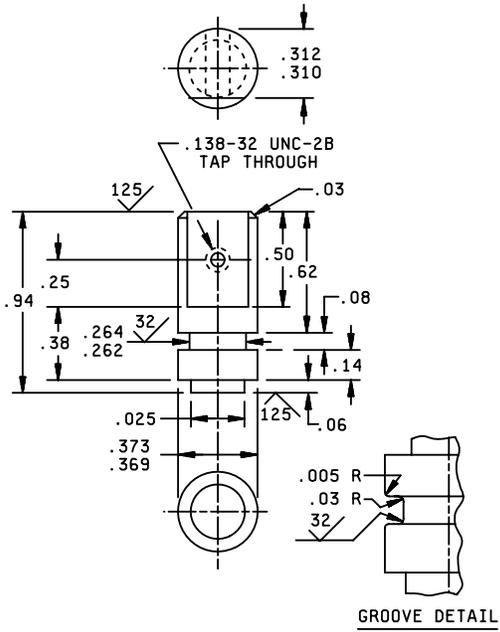


FIGURE 6. Shaft. (08)

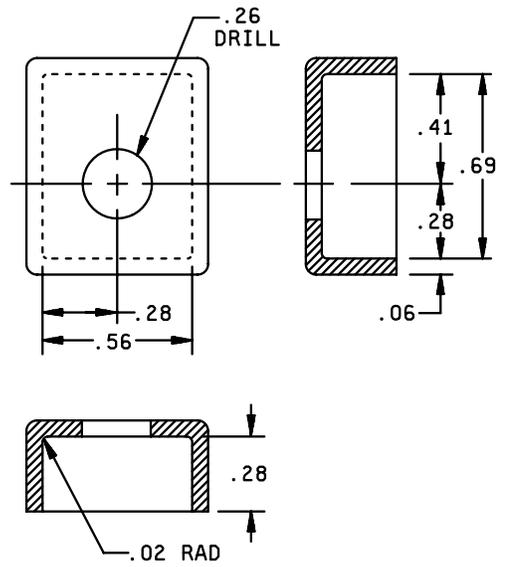


FIGURE 7. Coupler. (09)

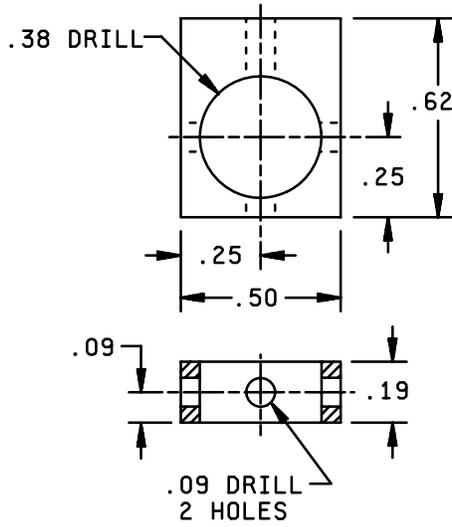


FIGURE 8. Coupler plate. (10)

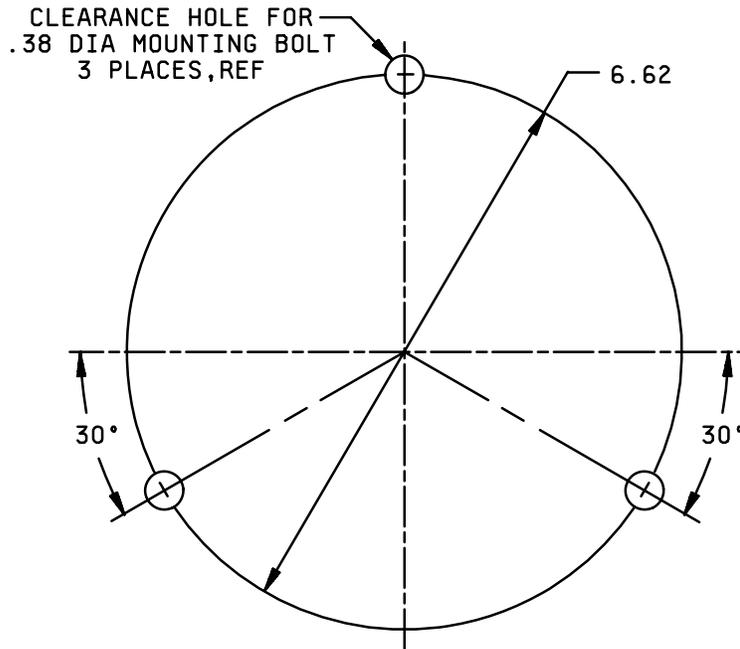
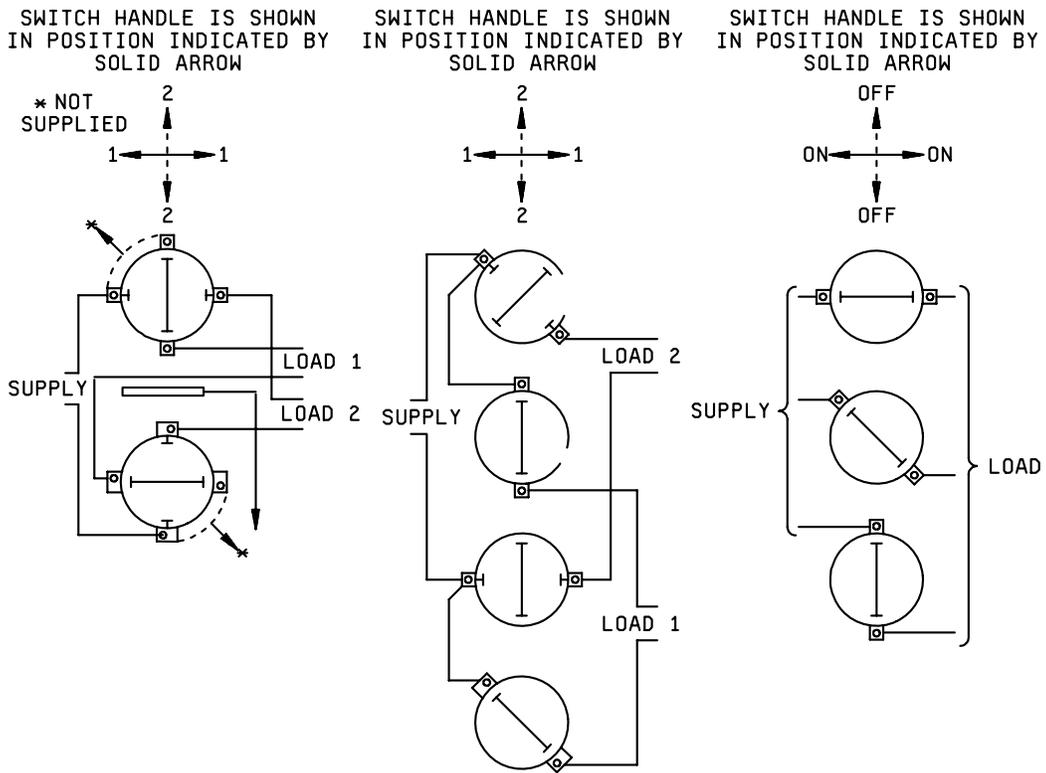


FIGURE 9. Mounting dimensions, ref.



A. Symbol 838.1

B. Symbol 840.1

C. Symbol 851

FIGURE 10. Wiring diagrams. ⑪⑫⑬

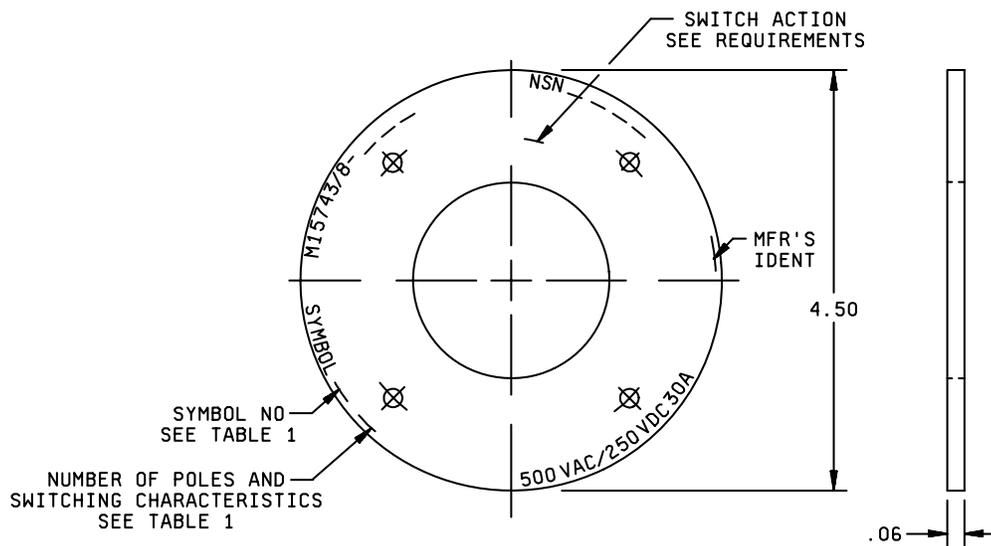


FIGURE 11. Identification plate. (17)

MIL-DTL-15743/8C

REQUIREMENTS

SYMBOL NUMBER: See table I.

DESIGN:

Electrical rating: 500 V ac, 60 Hz, 250 V dc, 0-30 ampere.

Dimensions and configuration: See figures 1 through 9.

Wiring diagram: See figure 10.

Mounting dimensions: See figure 9.

Degree of enclosure: Submersible (15 feet).

Weight: 5 pounds maximum.

Designation and marking: See figure 10 and 11.

Identification data shall be blank. as shown on figure 11. Unless otherwise specified in the ordering data, switch action marking shall be blank

Parts: The parts shown in table II and as specified in MIL-DTL-15743 shall be used in the construction of the switches specified herein.

GENERAL INFORMATION:

Military part number and general information are as shown in table I.

TABLE I. Military part number and general information.

Military part no.	Symbol no.	No. of poles and switching characteristics	Supersedes <u>1/</u>
			Type
M15743/8-001	838.1	DPDT	3SR2C4A-2
M15743/8-002	840.1	DPDT	3SR2C4-2
M15743/8-003	851	TPST	3SR3A4-2

1/ From NAVSEA Drawing 9000-S6202-74276.

ORDERING DATA:

Acquisition documents should specify the following:

Switch action marking, if required (see requirements).

MIL-DTL-15743/8C

TABLE II. Parts list.

Item no. <u>1</u> /	Description	Quantity M15743/8-			Material/ specification	Remarks
		001	002	003		
01	Switch, enclosed (sym 838.1)	-				See figure 1
02	Switch, enclosed (sym 840.1)		-			See figure 1
03	Switch, enclosed (sym 851)			-		See figure 1
04	Enclosure	1	1	1	MIL-E-24142/5 (modified)	See figure 2 & 3 M24142/5-003
05	O-ring	1	1	1	SAE-AS28775-010	----
06	Handle	1	1	1	Copper alloy ASTM-B584	See figure 4
07	Shaft assembly	1	1	1	----	See figure 5
08	Shaft	1	1	1	Ni-Cu alloy of QQ-N-281	See figure 6
09	Coupler	1	1	1	Brass, ASTM-B36/B36M, ASTM-B121/B121M	See figure 7
10	Coupler plate	1	1		CRES, or equivalent	See figure 8
11	Wiring diagram	1			MIL-E-2036	See figure 10a
12	Wiring diagram		1		MIL-E-2036	See figure 10b
13	Wiring diagram			1	MIL-E-2036	See figure 10c
14	Switch (type 3SR2C4A)	1			MIL-DTL-15291/7	MIL-S-15291/7-013
15	Switch (type 3SR2C4)		1		MIL-DTL-15291/7	M15291/7-012
16	Switch (type 3SR3A4)			1	MIL-S-15291/7	M15291/7-005
17	Identification plate	1	1	1	ASTM-B36/B36M, ASTM-B121/B121M	See figure 11

1/ Numbers in circles shown on the figures are the same as the item numbers shown in this table.

MIL-DTL-15743/8C

Referenced documents: In addition to MIL-DTL-15743, this document references the following:

MIL-DTL-15921/7

MIL-E-2036

MIL-E-24142/5

QQ-N-281

ASTM-B36/B36M

ASTM-B121/B121M

ASTM-B584

NAVSEA DWG 9000-S6202-74276

The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodian:  
Navy - SH  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5930-2007-013)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil/>.