

INCH-POUND
MIL-DTL-15743/17B
12 March 2007

SUPERSEDING
MIL-DTL-15743/17A
26 November 2002

DETAIL SPECIFICATION SHEET

SWITCH, ROTARY, ENCLOSED, SUBMERSIBLE (15 FEET), CONTACT MAKER,
SIX POLE, TWO-POSITION, SPRING-RETURN, 125 VOLTS ALTERNATING CURRENT,
10 AMPERE, SYMBOL 2638.1

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.

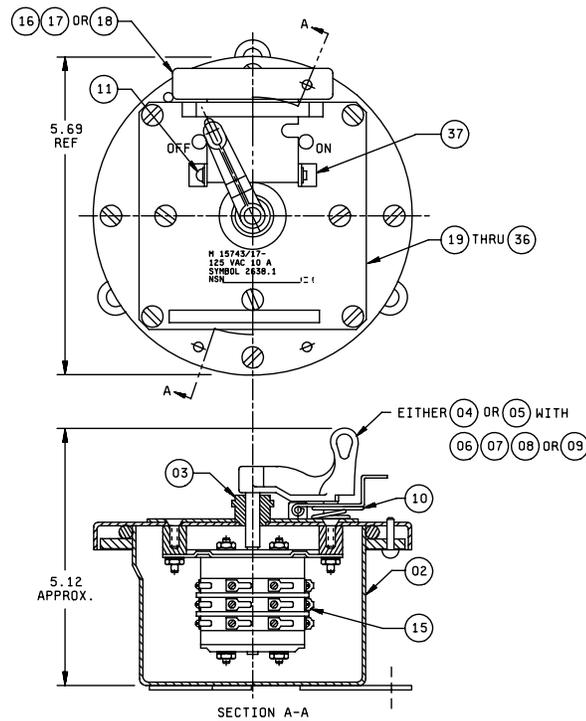


FIGURE 1. Switch, enclosed. (01)
(001 shown)

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.

MIL-DTL-15743/17B

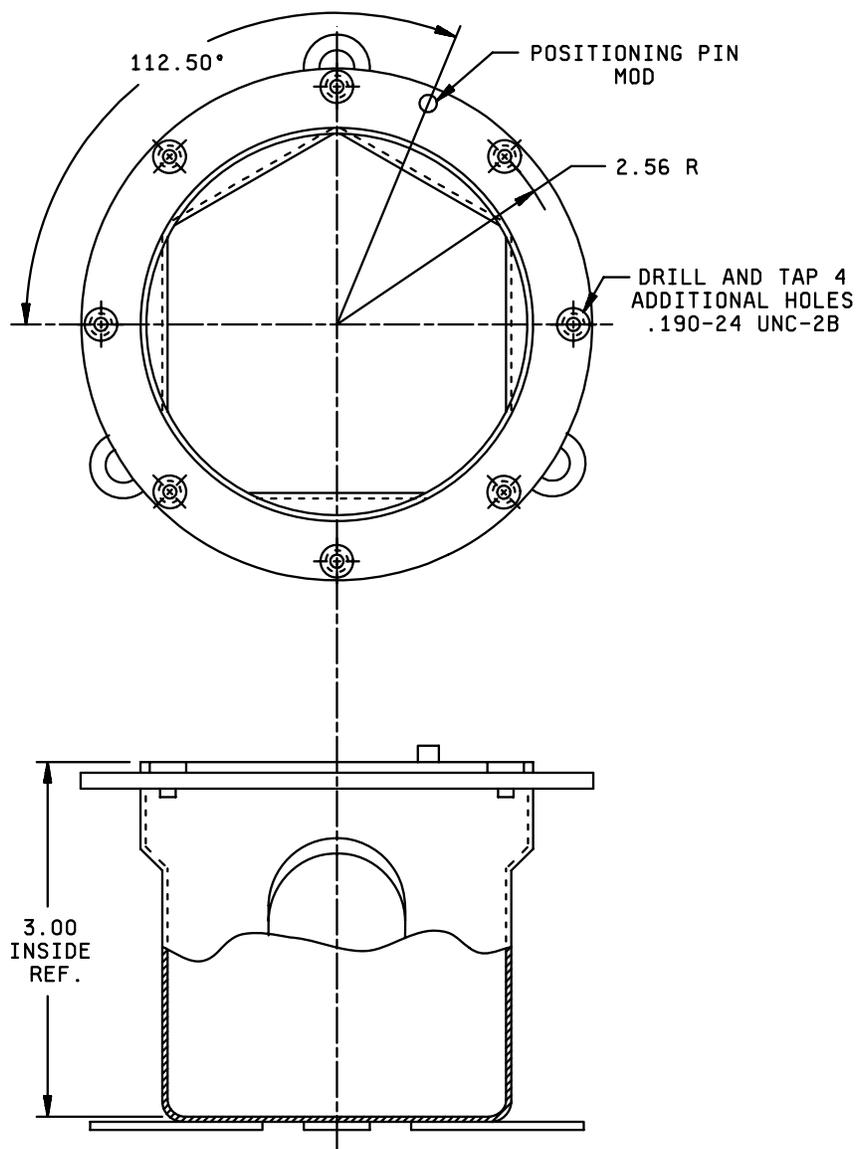


FIGURE 2. Box assembly, (modified).

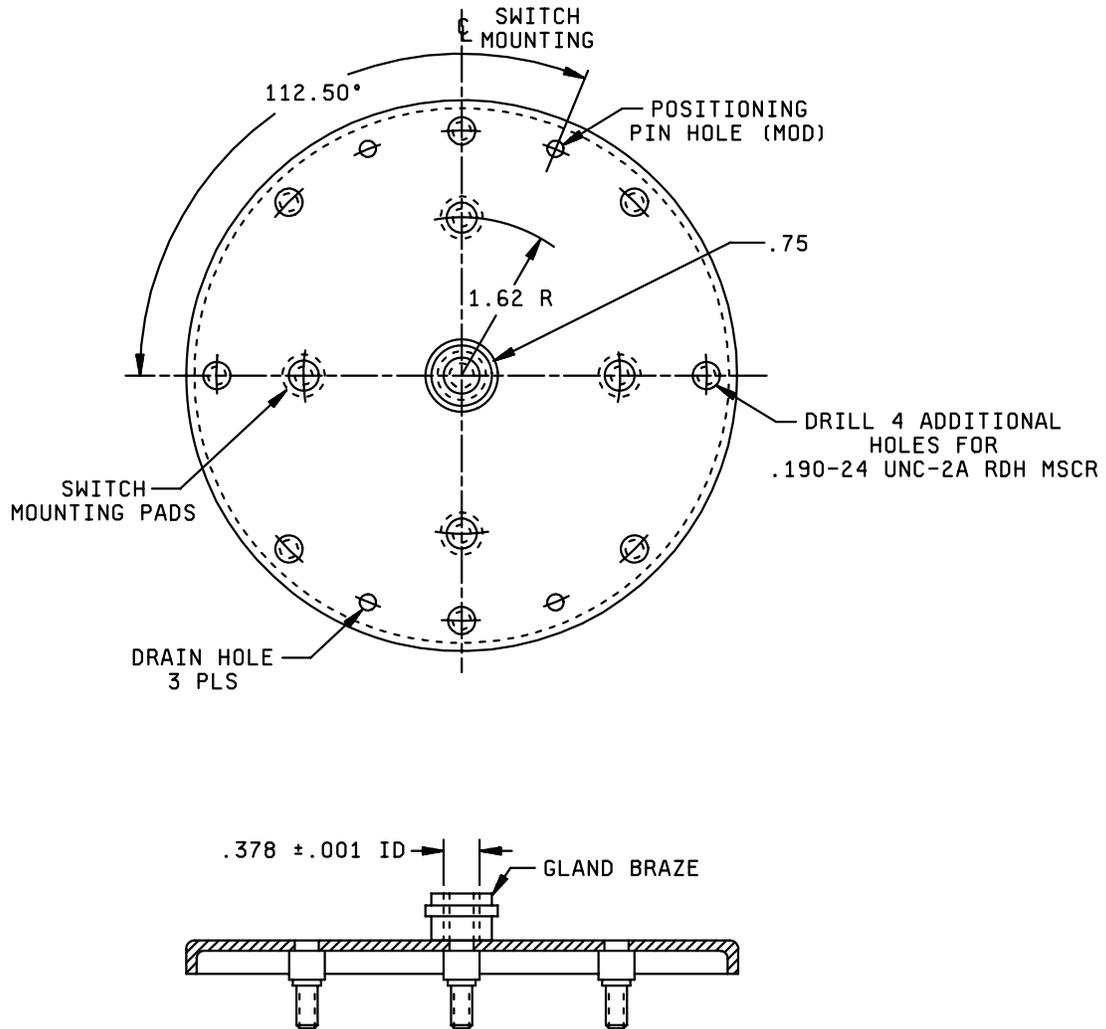


FIGURE 3. Cover assembly (modified).

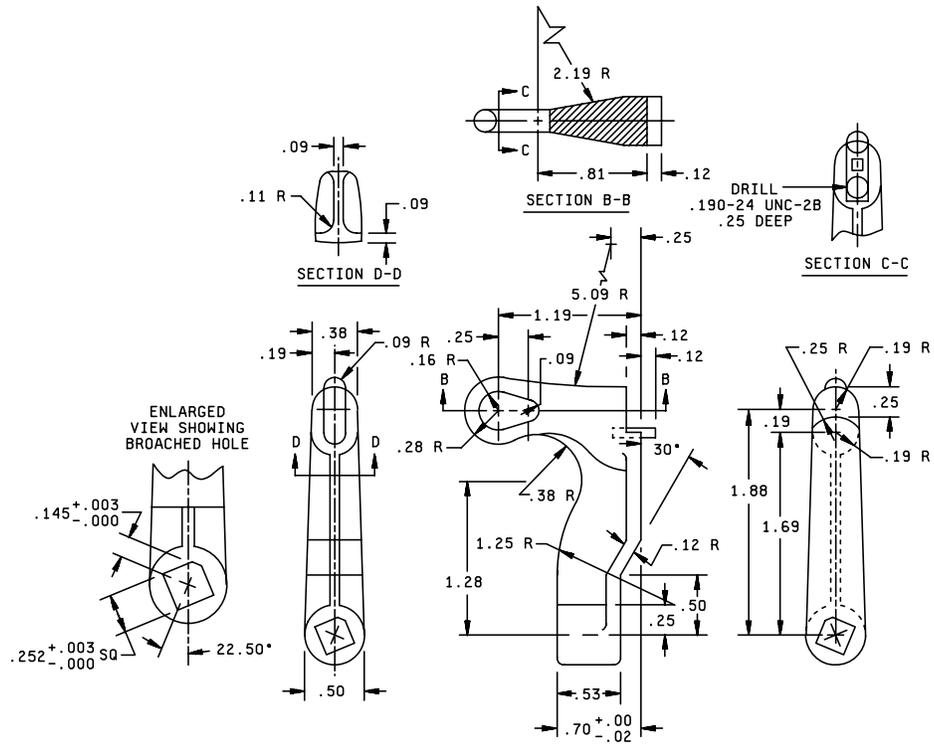


FIGURE 4. Handle. (04)

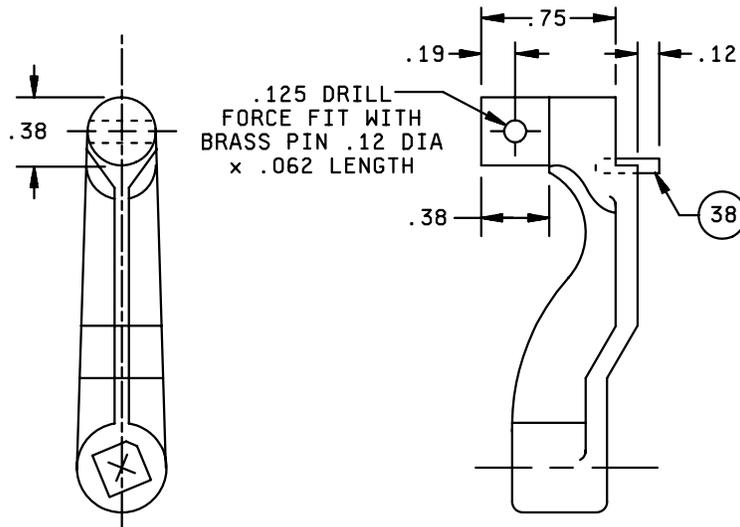
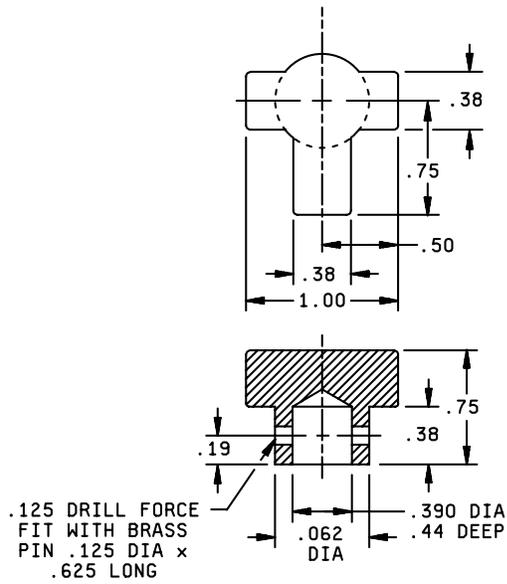
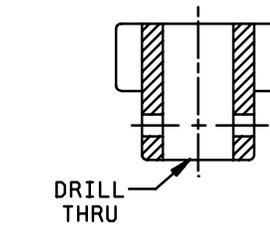
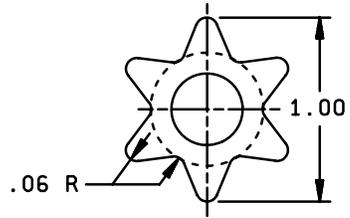


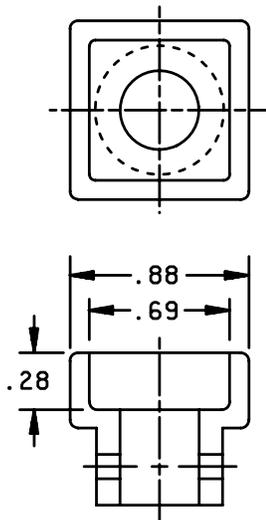
FIGURE 5. Handle body (for knobs). (05)
(same as item 04 except as shown)



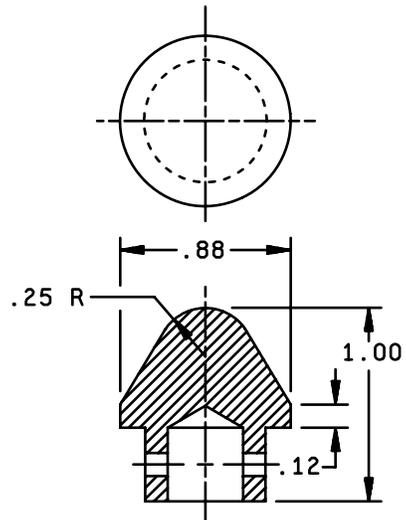
A. T Knob. ⑥



B. Star Knob. ⑦
(same as 06, except as shown)



C. Square Knob. ⑧
(same as 06, except as shown)



D. Crown Knob. ⑨
(same as 06, except as shown)

FIGURE 6. Knobs. 06, 07, 08, 09

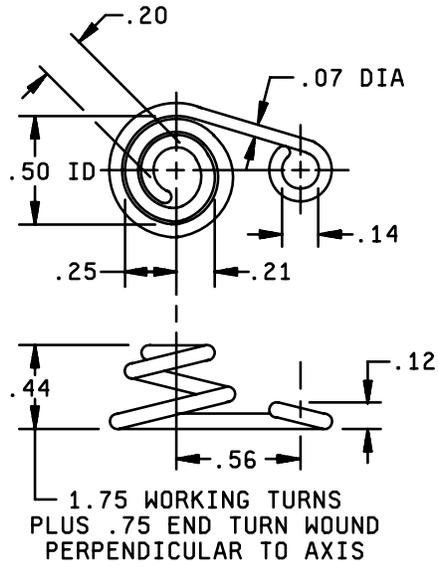


FIGURE 7. Spring. (10)

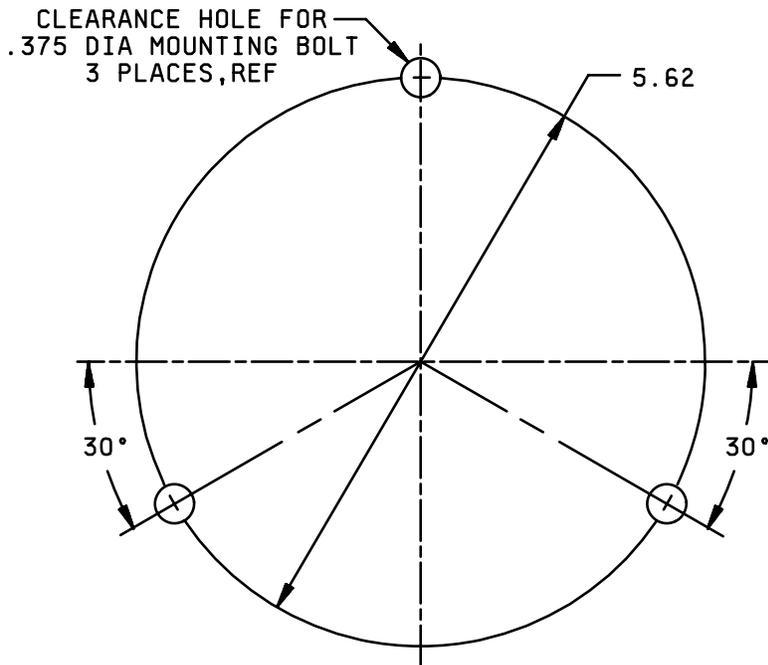
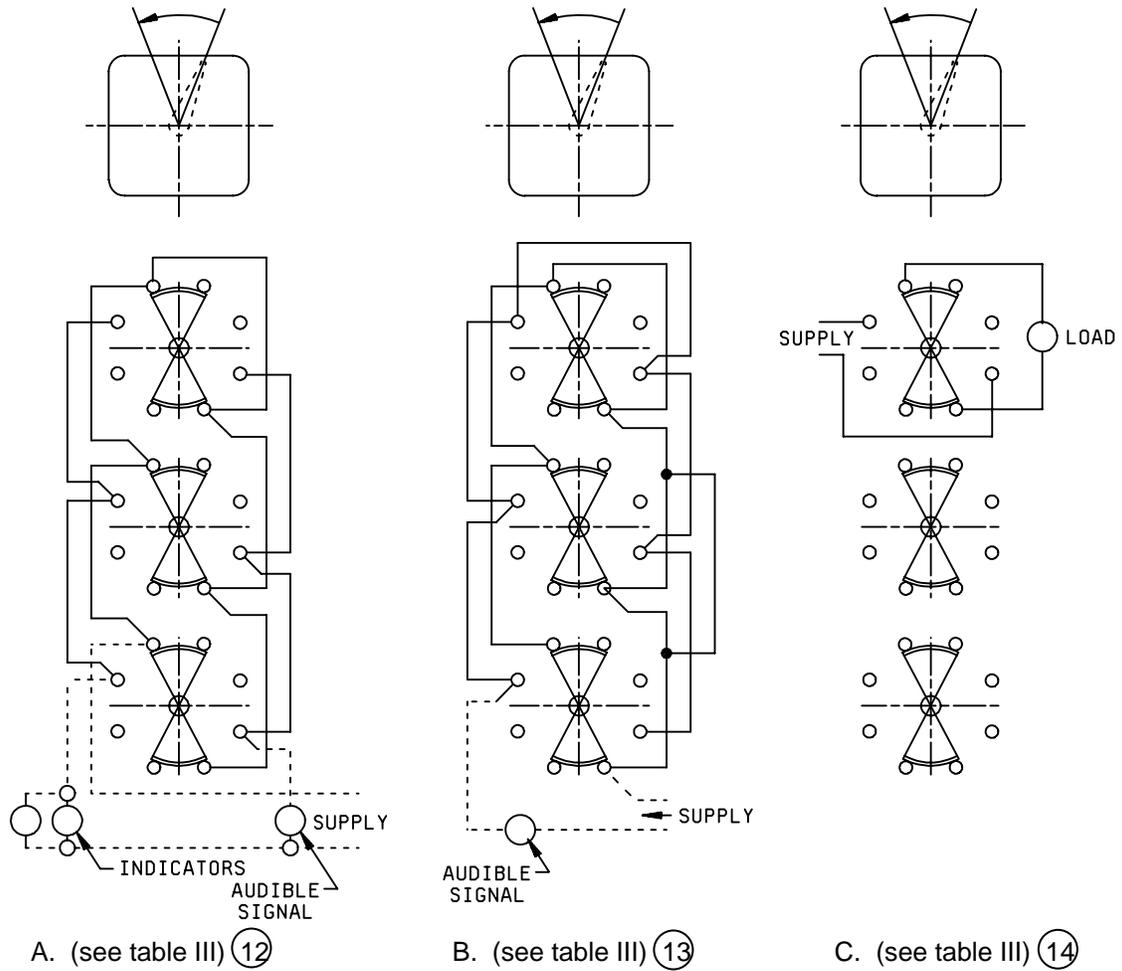


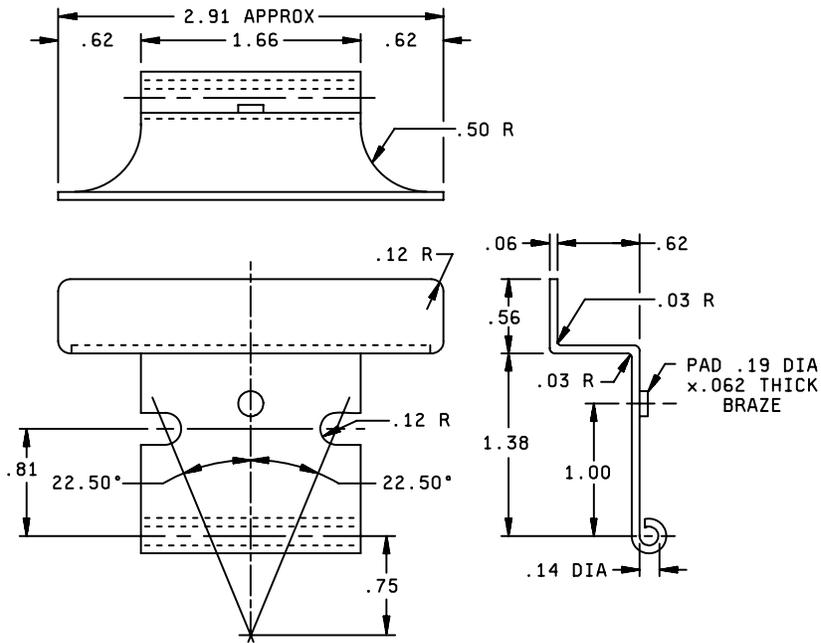
FIGURE 8. Mounting dimensions, ref.



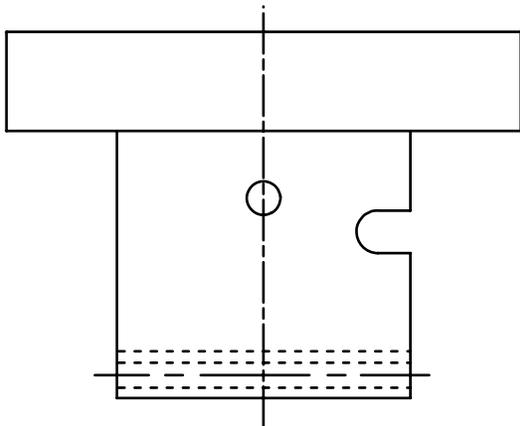
NOTE: Wiring diagrams are rear view of switch, handle moves "RIGHT ON" (as viewed from front of switch).

FIGURE 9. Wiring diagram. ⑫, ⑬, ⑭

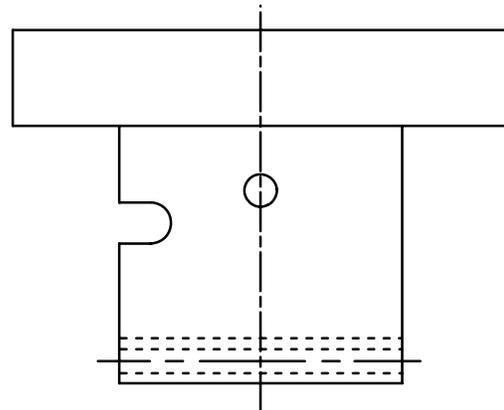
MIL-DTL-15743/17B



A. Left or right position. (16)



B. Right position (only). (17)
(same as item 16, except as shown)



C. Left position (only). (18)
(same as item 16, except as shown)

FIGURE 10. Locking plates. (16)(17)(18)

MIL-DTL-15743/17B

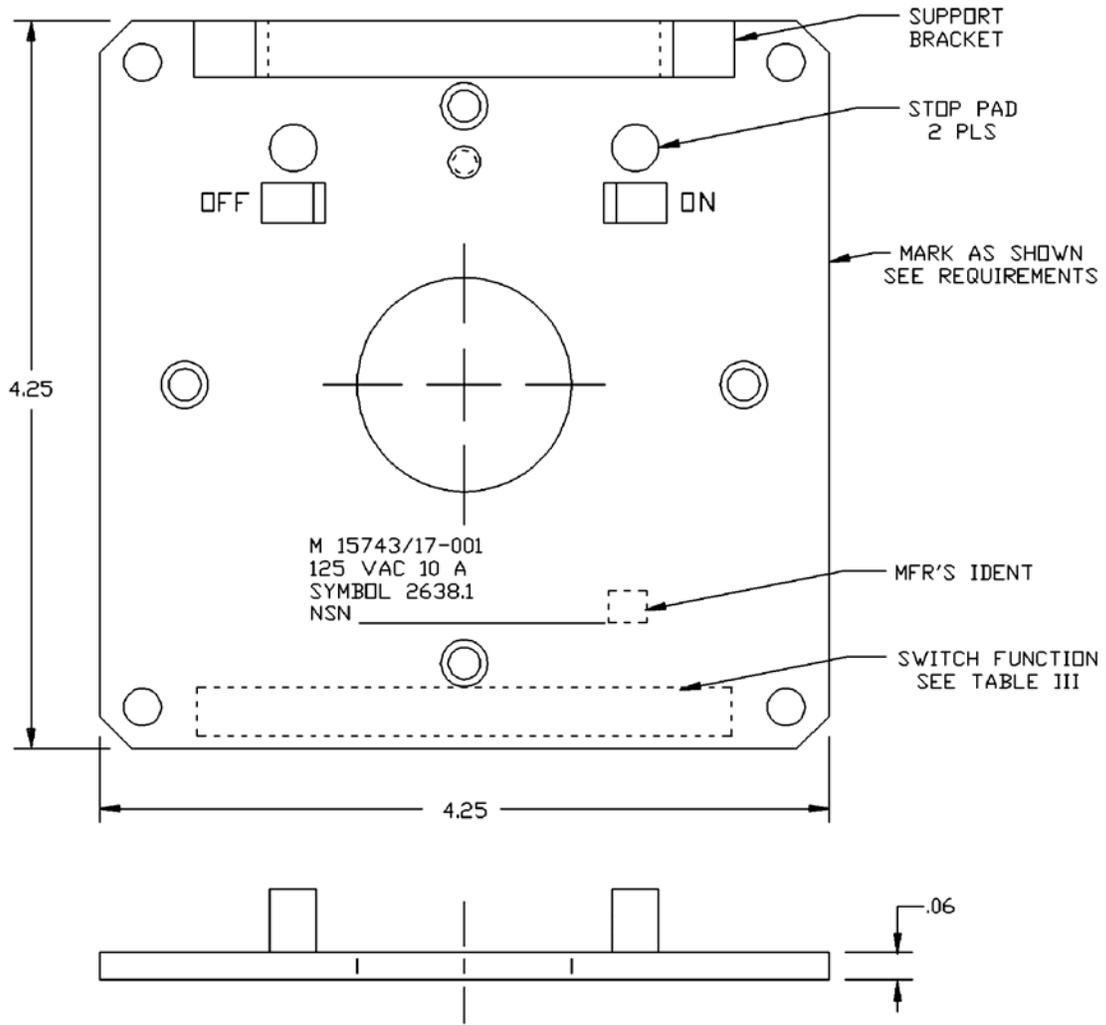


FIGURE 11. Identification plate. 19 through 36

REQUIREMENTS

SYMBOL NUMBER: See table I.

DESIGN:

Electrical rating: 125 V ac, 0-10 ampere, 60 Hz.

Dimensions and configuration: See figures 1 through 10.

Wiring diagram: See figure 9.

Mounting dimensions: See figure 8.

Degree of enclosure: Submersible (15 feet).

Weight: 4 pounds maximum.

Designation and marking: See figure 10.

Unless otherwise specified in the ordering data, switch action and identification marking shall be as shown on figure 11. Switch function marking shall be as shown in table III.

Parts: The parts shown in table II and as specified in MIL-DTL-15743 shall be used in the construction of the switch specified herein. Parts selection for applicable switch function is given in table III.

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.	Supersedes ^{1/}
		Type
M15743/17-001	2638.1	S2JRM3A-2

^{1/} From NAVSEA Drawing 803-74055.

ORDERING DATA:

Acquisition documents should specify the following:

- (a) Switch action marking, if other than shown, (see requirements).
- (b) Switch function marking required (identification plate item no.), (see table III).
- (c) Wiring diagram for identification plate item numbers 19 through 36 (see table III).

MIL-DTL-15743/17B

TABLE II. Parts list.

Item no. <u>1/</u>	Description	Quantity M15743/17-001	Material/ specification	Remarks
01	Switch, enclosed (sym 2638.1)	-		See figure 1
02	Enclosure	1	MIL-E-24142/5	M24142/5-002 Mod <u>2/</u>
03	O Ring seal	1	SAE-AS28775-012	----
04	Handle	<u>4/</u> 1	Brass, coml	See figure 4
05	Handle body for knobs	<u>4/</u> 1	Brass, coml	See figure 5
06	T knob	<u>4/</u> 1	Brass, coml	See figure 6a
07	Star knob	<u>4/</u> 1	Brass, coml	See figure 6b
08	Square knob	<u>4/</u> 1	Brass, coml	See figure 6c
09	Crown knob	<u>4/</u> 1	Brass, coml	See figure 6d
10	Spring	1	Phosphor bronze, coml	See figure 7
11	Hinge pin	1	Brass, coml	Size as reqd.
12	Wiring diagram	<u>4/</u> 1	MIL-E-2036	See figure 9a
13	Wiring diagram	<u>4/</u> 1	MIL-E-2036	See figure 9b
14	Wiring diagram	<u>4/</u> 1	MIL-E-2036	See figure 9c
15	Switch (type JRM 300)	1	MIL-DTL-21604/7	---
16	Locking plate (left and right position) <u>3/</u>	<u>4/</u> 1	Brass, coml.	See figure 10a
17	Locking plate (right position) <u>3/</u>	<u>4/</u> 1	Brass, coml.	See figure 10b
18	Locking plate (left position) <u>3/</u>	<u>4/</u> 1	Brass, coml.	See figure 10c
19 thru 36	Identification plate	<u>4/</u> 1	Brass, ASTM-B36/B36M and ASTM-B121/B121M	See figure 11
37	Hinge angle	2	Brass, coml.	See figure 1
38	Stud	1	CRES, or equivalent	

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

2/ Modified enclosure to change location of positioning pin and hole (see figures 2 and 3).

3/ Supporting hardware for locking plates shall be brass (commercial) with phosphor bronze (commercial) lockwashers.

4/ See table III for switch-function and parts selection.

MIL-DTL-15743/17B

TABLE III. Switch function and parts selection data.

Switch function <u>1/</u> (see figure 11)	Parts selection					
	Color cover & ident plate <u>2/</u>	Ident plate item no	Lkg plate Item no	Hdle item no	Knob item no	Wrg diag item no.
Blank	-	19	18	04	-	None
Fire room emergency	-	20	17	04	-	12
General alarm	Red #21105 (Surf SH) Yel #23655 (subs)	21	18	04	-	13
Intratturret alarm	-	22	17	04	-	13
Steering emergency	-	23	18	04	-	13
Flight crash	-	24	18	04	-	13
Flight deck warning	-	25	17	04	-	13
Chemical attack	GRN #24260 (Surf SH)	26	16	04	-	13
Heavy machine gun cease firing circuit 4U	-	27	18	04	-	<u>3/</u>
Light machine gun cease firing circuit 5U	-	28	18	04	-	<u>3/</u>
Collision alarm	Yel #23655 (Surf SH) Red #21105 (Sub)	29	18	05	07	13
Diving alarm	Grn #24260 (Sub)	30	18	05	08	13
Sonar alarm	Yel #23655	31	18	04	-	13
Rocket and torpedo warning	-	32	18	04	-	13
Power plant alarm	Wht #27875 (Surf SH) Pink #21668 (Sub)	33	18	05	06	13
Missile jettison alarm	Blu #25102	34	18	05	09	13
Missile emergency alarm	Orn #22246	35	18	05	09	13
Danger I.F.F. destruct	-	36	18	04	-	14

1/ Switch function shall be as specified in the ordering data. When not specified, or when enclosed switches are being ordered for stocking in the supply system, the switch function shall be blank (item 19).

2/ Where colors are specified, switch enclosure covers and identification plates shall be painted the color standard number of FED-STD-595.

3/ Wiring diagrams shall be as specified in the ordering data.

MIL-DTL-15743/17B

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

MIL-DTL-21604/7

MIL-E-2036

MIL-E-24142/5

FED-STD-595/21105

FED-STD-595/21668

FED-STD-595/23655

FED-STD-595/24260

FED-STD-595/25102

FED-STD-595/22246

FED-STD-595/27875

ASTM-B36/B36M

ASTM-B121/B121M

NAVSEA DWG 803-74055

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 5930-2007-021)

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/>.