INCH-POUND
MIL-DTL-24646/6C
14 August 2014
SUPERSEDING
MIL-DTL-24646/6B
29 October 2008

DETAIL SPECIFICATION SHEET

FUSE BOXES, FEEDER DISTRIBUTION, WITH SWITCHES, TOTALLY ENCLOSED, 125 VOLTS, ALTERNATING CURRENT, SINGLE AND THREE PHASE BUSES, SINGLE AND DOUBLE FEEDER, SINGLE PHASE BRANCHES, 0-30 AMPERE MIDGET FUSES AND SNAP SWITCHES, SYMBOLS 602, 603, 604, 605, 606, 615, 616, 617, 618

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 sheet and MIL-DTL-24646.

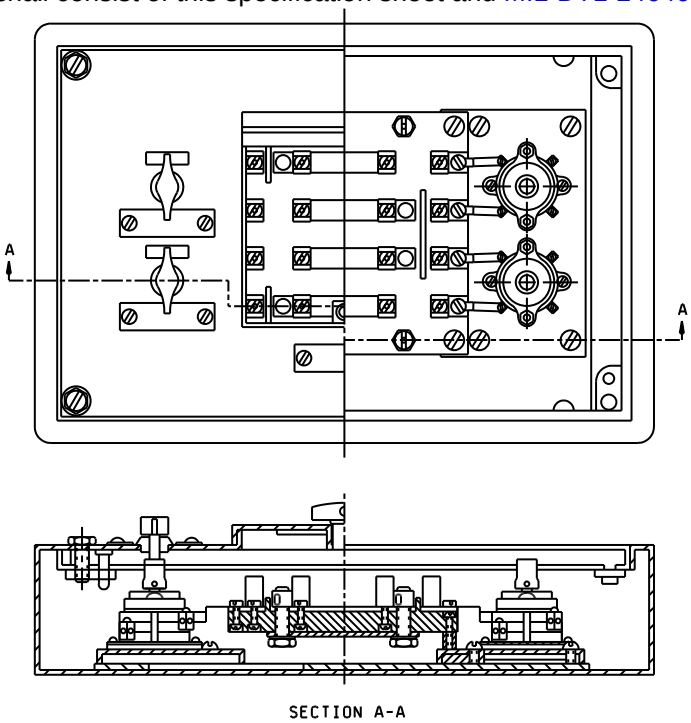
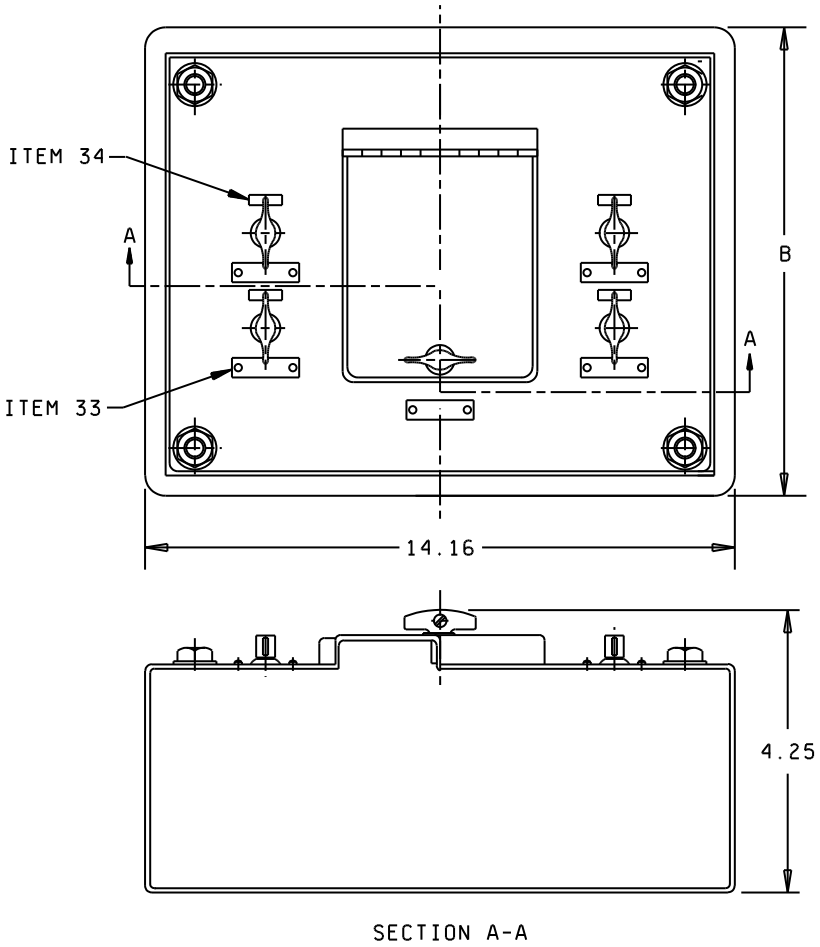


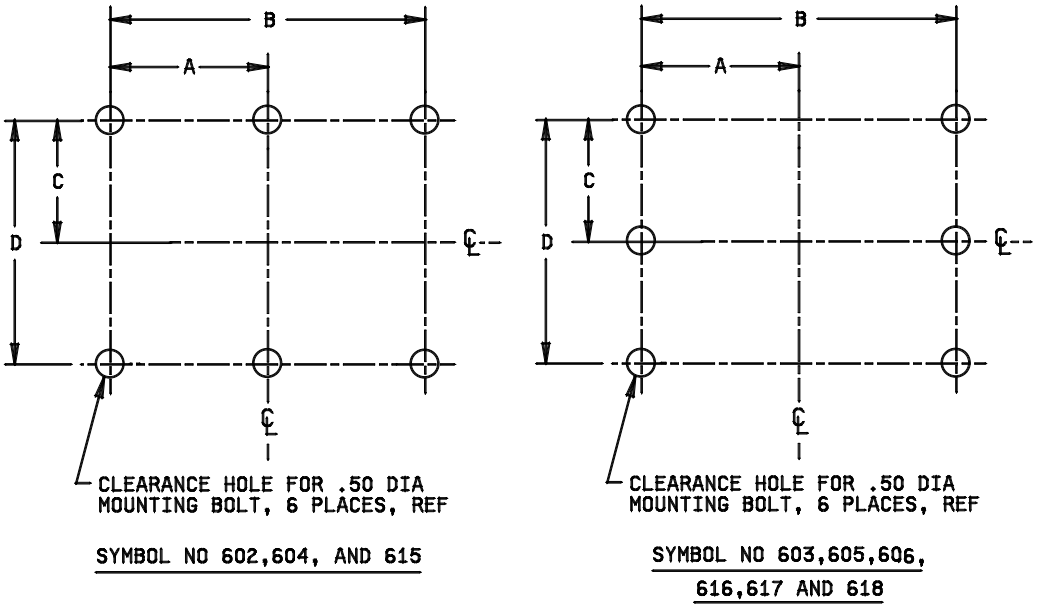
FIGURE 1. Fuse box assembly, typical. Item No. 01, 02, 03, 04, 05, 06, 07, 08, 09
(Symbol 602 shown)

NOTES:
1. Dimensions are 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.



SYMBOL NO	DIMENSIONS (REF)
	B
602	10.16
603	14.16
604	10.16
605	14.16
606	20.16
615	10.16
616	14.16
617	20.16
618	20.16

FIGURE 2. Enclosure, overall dimensions. Item No. 10, 11, 12
(Symbols 602, 603, 604, 605, 606, 615, 616, 617 and 618)



SYMBOL NO	DIMENSIONS			
	A	B	C	D
602	5.00	10.00	4.25	8.50
603	6.25	12.50	5.12	10.25
604	5.00	10.00	4.25	8.50
605	6.25	12.50	5.12	10.25
606	6.25	12.50	8.00	16.00
615	5.00	10.00	4.25	8.50
616	6.25	12.50	5.12	10.25
617	6.25	12.50	8.00	16.00
618	6.25	12.50	8.00	16.00

FIGURE 3. Mounting dimensions, ref.
(Symbols 602, 603, 604, 605, 606, 615, 616, 617 and 618)

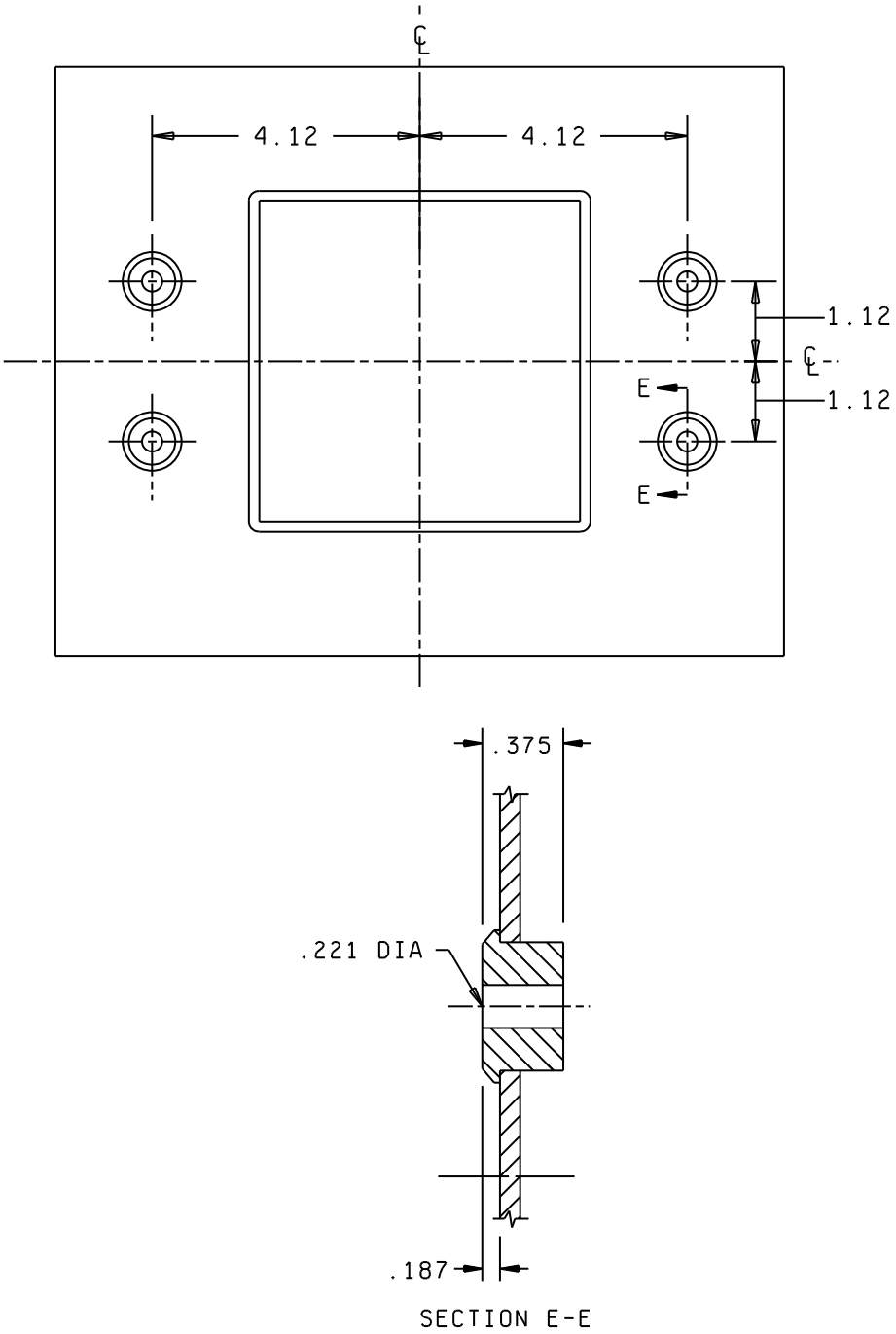
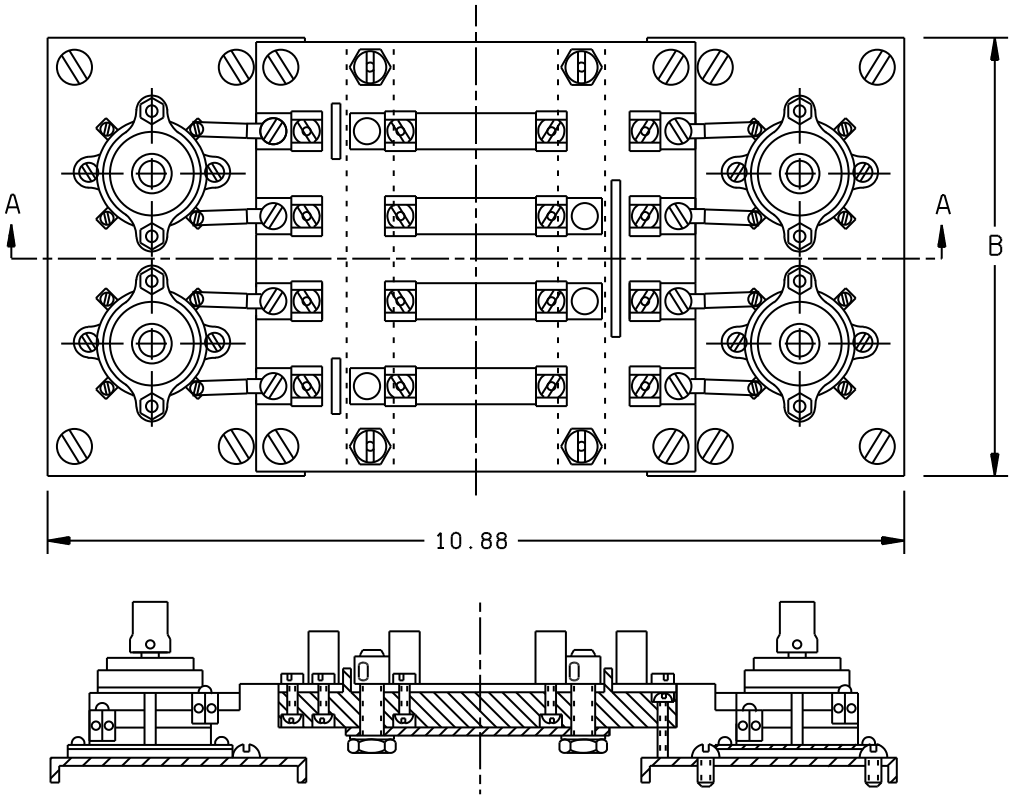


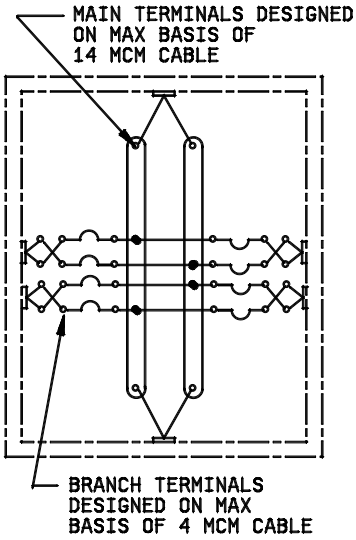
FIGURE 4. Cover assembly, typical.
(Symbols 602, 603, 604, 605, 606, 615, 616, 617 and 618)



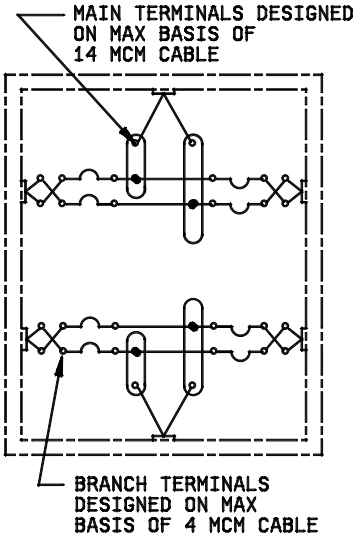
SYMBOL NO	DIMENSIONS B
602	6.00
603	10.88
604	6.00
605	10.88
606	15.19
615	6.00
616	10.88
617	15.19
618	15.19

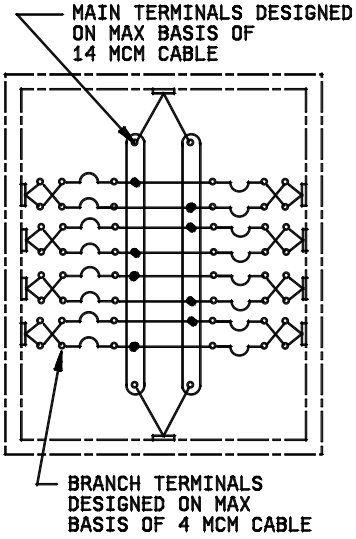
FIGURE 5. Fuse block, and switch assembly, typical. Item No. 13, 14, 15, 16, 17, 18, 19, 20, 21 (Symbols 602, 603, 604, 605, 606, 615, 616, 617 and 618)

A. Four single-phase branches, single feeder (Symbol 602)

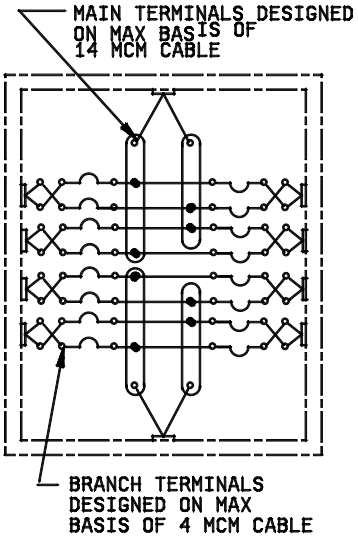


B. Four single-phase branches, double feeder (Symbol 604)





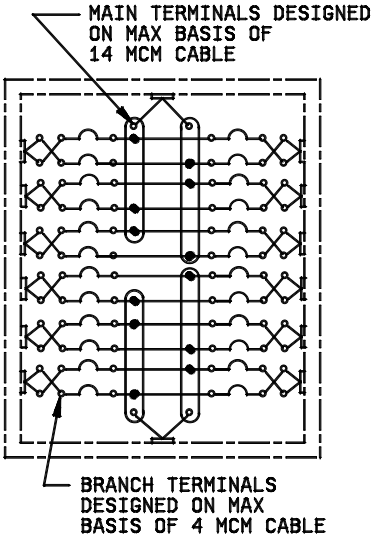
C. Eight single-phase branches, single feeder (Symbol 603)



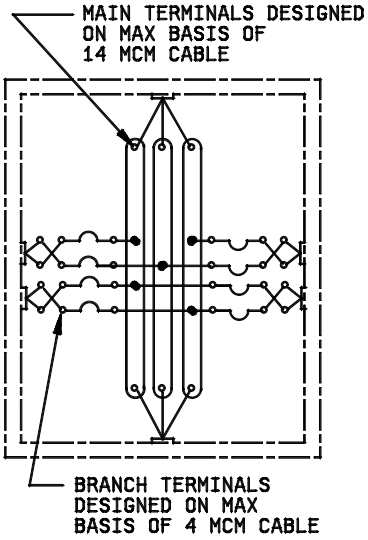
D. Eight single-phase branches, double feeder (Symbol 605)

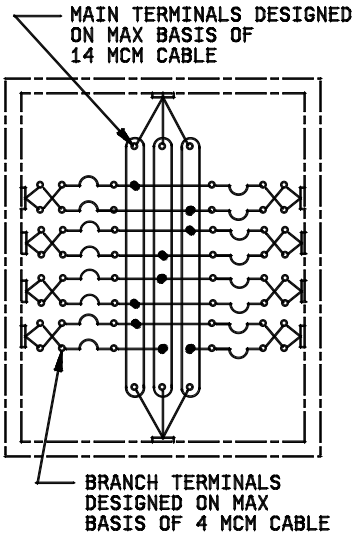
FIGURE 6. Wiring diagrams. Item No. 22, 23, 24, 25, 26, 27, 28, 29, 30

E. Twelve single-phase branches, double feeder (Symbol 606)



F. Four single-phase branches, single feeder (Symbol 615)

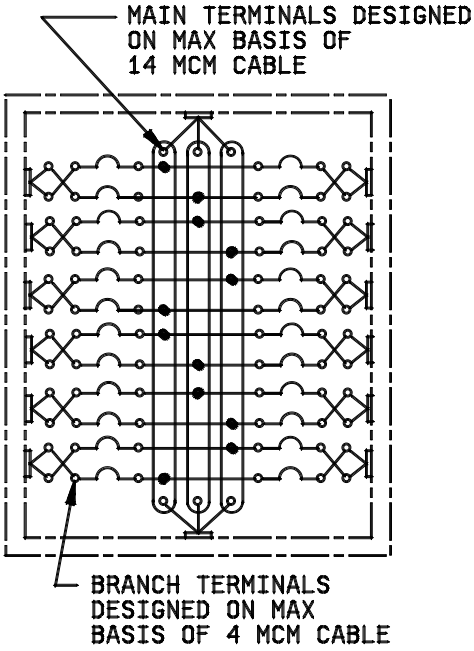




G. Eight single-phase branches, single feeder (Symbol 616)

FIGURE 6. Wiring diagrams. Item No. 22, 23, 24, 25, 26, 27, 28, 29, 30 - Continued.

H. Twelve single-phase branches, single feeder (Symbol 617)



I. Twelve single-phase branches, single feeder (Symbol 618)

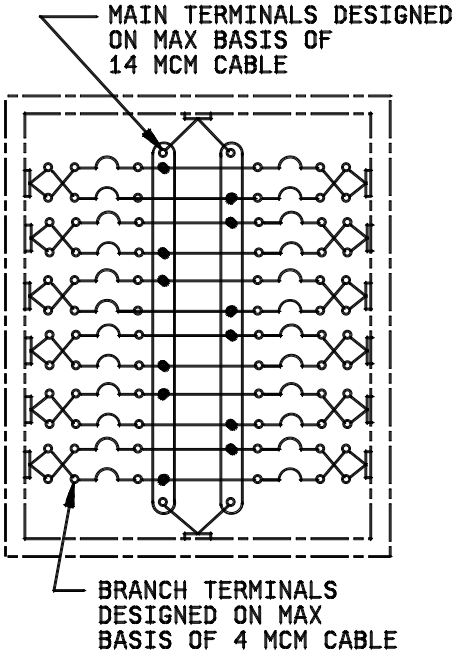


FIGURE 6. Wiring diagrams. Item No. 22, 23, 24, 25, 26, 27, 28, 29, 30 - Continued.

REQUIREMENTS

Symbol numbers: See table I.

Design:

Electrical rating: 125 volts alternating current, 0-10 ampere, 60 hertz.
Dimensions and configuration: See figures 1, 2, 3 and 5.
Wiring diagrams: See figure 6.
Mounting dimensions: See figure 3.
Degree of enclosure: Totally enclosed.
Designation and marking: See MIL-DTL-24646.
Parts: The parts listed in table II and specified in MIL-DTL-24646 shall be used in the construction of the fuse boxes specified herein.

General information:
Military part numbers and general information is as specified in table I.

TABLE I. Military part numbers and general information.

Military part no.	Symbol no.	Approx. Weight in pounds 1/	No. of circuits	Feeder MCM	Branch MCM	Fuse size	Bus bar size	Supersedes	
								Drawing no.	Type
M24646/6-001	602	21.0	4	14	4	midget 0-10A	0.62 x 0.12	9-S-5459-L	D-31A
M24646/6-002	603	28.0	8	14	4	midget 0-10A	0.62 x 0.12	9-S-5460-L	D-33A
M24646/6-003	604	21.0	4	14	4	midget 0-10A	0.62 x 0.12	9-S-5459-L	D-31B
M24646/6-004	605	28.0	8	14	4	midget 0-10A	0.62 x 0.12	9-S-5460-L	D-33B
M24646/6-005	606	36.0	12	14	4	midget 0-10A	0.62 x 0.12	9-S-5461-L	D-61B
M24646/6-006	615	21.0	4	14	4	midget 0-10A	0.62 x 0.12	9-S-4759-L	D-62A
M24646/6-007	616	28.0	8	14	4	midget 0-10A	0.62 x 0.12	9-S-5196-L	D-21A
M24646/6-008	617	36.0	12	14	4	midget 0-10A	0.62 x 0.12	9-S-4761-L	D-17A
M24646/6-009	618	36.0	12	14	4	midget 0-10A	0.62 x 0.12	9-S-5461-L	D-61A

1/ The weight of these fuse boxes may vary + or - 15 percent.

TABLE II. Parts list.

Item no. 1/	Description	QTY M /-									Material/ specification	Remarks
		001	002	003	004	005	006	007	008	009		
01	Fuse box assembly (sym 602)	-									MIL-DTL-24646/6	See figure 1
02	Fuse box assembly (sym 603)		-								MIL-DTL-24646/6	See figure 1
03	Fuse box assembly (sym 604)			-							MIL-DTL-24646/6	See figure 1
04	Fuse box assembly (sym 605)				-						MIL-DTL-24646/6	See figure 1
05	Fuse box assembly (sym 606)					-					MIL-DTL-24646/6	See figure 1
06	Fuse box assembly (sym 615)						-				MIL-DTL-24646/6	See figure 1
07	Fuse box assembly (sym 616)							-			MIL-DTL-24646/6	See figure 1
08	Fuse box assembly (sym 617)								-		MIL-DTL-24646/6	See figure 1
09	Fuse box assembly (sym 618)									-	MIL-DTL-24646/6	See figure 1
10	Enclosure (10 x 14 x 3)	1		1			1				M24142/17-001	See figure 2
11	Enclosure (14 x 14 x 3)		1		1			1			M24142/20-005	See figure 2
12	Enclosure (14 x 20 x 3)					1			1	1	M24142/20-007	See figure 2
13	Fuse block and switch assembly	1									MIL-DTL-24646/6	See figure 5
14	Fuse block and switch assembly		1								MIL-DTL-24646/6	See figure 5
15	Fuse block and switch assembly			1							MIL-DTL-24646/6	See figure 5
16	Fuse block and switch assembly				1						MIL-DTL-24646/6	See figure 5
17	Fuse block and switch assembly					1					MIL-DTL-24646/6	See figure 5
18	Fuse block and switch assembly						1				MIL-DTL-24646/6	See figure 5
19	Fuse block and switch assembly							1			MIL-DTL-24646/6	See figure 5
20	Fuse block and switch assembly								1		MIL-DTL-24646/6	See figure 5
21	Fuse block and switch assembly									1	MIL-DTL-24646/6	See figure 5
22	Wiring diagram	1									MIL-DTL-2036	See figure 6
23	Wiring diagram		1								MIL-DTL-2036	See figure 6
24	Wiring diagram			1							MIL-DTL-2036	See figure 6
25	Wiring diagram				1						MIL-DTL-2036	See figure 6
26	Wiring diagram					1					MIL-DTL-2036	See figure 6
27	Wiring diagram						1				MIL-DTL-2036	See figure 6
28	Wiring diagram							1			MIL-DTL-2036	See figure 6
29	Wiring diagram								1		MIL-DTL-2036	See figure 6
30	Wiring diagram									1	MIL-DTL-2036	See figure 6
31	Fuse clip	16	32	16	32	48	18	32	48	48	A-A-55507/1-04	N/A
32	Snap switch	4	8	4	8	12	4	8	12	12	M15291/3-002	Type 1SR2A4
33	Information plate	4	8	4	8	12	4	8	12	12	Brass, ASTM B36/B36M B121/B121M	See figure 2
34	Switch information plate 2/	4	8	4	8	12	4	8	12	12	Brass, ASTM B36/B36M B121/B121M	See figure 2
35	Identification plate	1	1	1	1	1	1	1	1	1	Brass, ASTM B36/B36M B121/B121M	N/A

1/ Item numbers after the figure titles are the same as the item numbers shown in this table.
2/ As an option, the switch information (“OFF”) may be metal stamped or engraved onto the covers in lieu of being placed on an information plate.

Referenced documents. In addition to MIL-DTL-24646, this document references the following:

MIL-DTL-2036 ASTM B36/B36M ASTM B121/B121M

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Custodian:
Navy - SH
DLA - CC

Preparing activity:
DLA - CC

(Project 5920-2014-009)

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 https://assist.dla.mil.