

PROJ. NO. 6210-0488

FED. SUP CLASS  
6210

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NAVY - AS  
USAF - 11, 85

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## PANEL ASSEMBLIES (a)

PART NO.	CLASS	DESCRIPTION
MS23007-1	I	PANEL ASSEMBLY - WITH OUTER CASE
MS23007-11	I	PANEL ASSEMBLY - WITHOUT OUTER CASE
MS23007-2	II	PANEL ASSEMBLY - WITH OUTER CASE
MS23007-22	II	PANEL ASSEMBLY - WITHOUT OUTER CASE
MS23007-3	III	PANEL ASSEMBLY - WITH OUTER CASE
MS23007-33	III	PANEL ASSEMBLY - WITHOUT OUTER CASE

(a) NOTE SHEET NOS. 2 AND 3

## REQUIREMENTS:

## 1. MATERIAL:

- A. CHASSIS BODY & OUTER CASE: STEEL, SHEET, QQ-S-699, .060 THICK.  
 B. TOP PANEL: STEEL, SHEET, QQ-S-699, .125 THICK.  
 C. CHASSIS FLANGE: STEEL, SHEET, QQ-S-699, .187 THICK.  
 D. COVERS, TOP PANEL: PLASTIC, TRANSPARENT, CONFORMING TO L-P-391, .125 THICK.  
 E. CARDS (FACSIMILE, CIRCUIT & SWITCH IDENTIFICATION): HEAVY GRAY DRAWING PAPER.

## 2. FINISH: SEE PROCUREMENT SPECIFICATION.

## 3. THREADS: IN ACCORDANCE WITH HANDBOOK 28.

- (A) 4. DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS  $\pm .015$ , ANGLES  $\pm 1^\circ$ .  
 INTERPRET DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH USASI Y14.5-1966 (ANSI)

## 5. TAXIWAY SWITCHES: TWELVE (12), SPST, SHALL BE PROVIDED BUT NOT MOUNTED. SEE PROCUREMENT SPECIFICATION.

## 6. WIRE SIZES, LENGTH, ETC: SEE PROCUREMENT SPECIFICATION.

## 7. TERMINAL BOARDS AND WIRING INSTALLATION: SEE PROCUREMENT SPECIFICATION.

## 8. EXACT SHAPE OF SWITCH OPTIONAL, PROVIDED DIMENSIONS ARE NOT EXCEEDED, INTERCHANGEABILITY AND PERFORMANCE IS NOT AFFECTED AND THE DESIGN CHANGE IS APPROVED BY THE QUALIFYING ACTIVITY.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.  
 REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

(A) REVISED

P.A. NAVY - AS Other Cust	TITLE	MILITARY STANDARD
USAF - 82	PANEL ASSEMBLY, WITH OR WITHOUT OUTER CASE	MS23007
PROCUREMENT SPECIFICATION MIL-P-8944	SUPERSEDES	SHEET 1 OF 11

DD FORM 672-1 (Coordinated)  
1 MAR 72

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PLATE NO. 22061

APPROVED 15 APR 68 REVISED (A) 13 NOV 1975

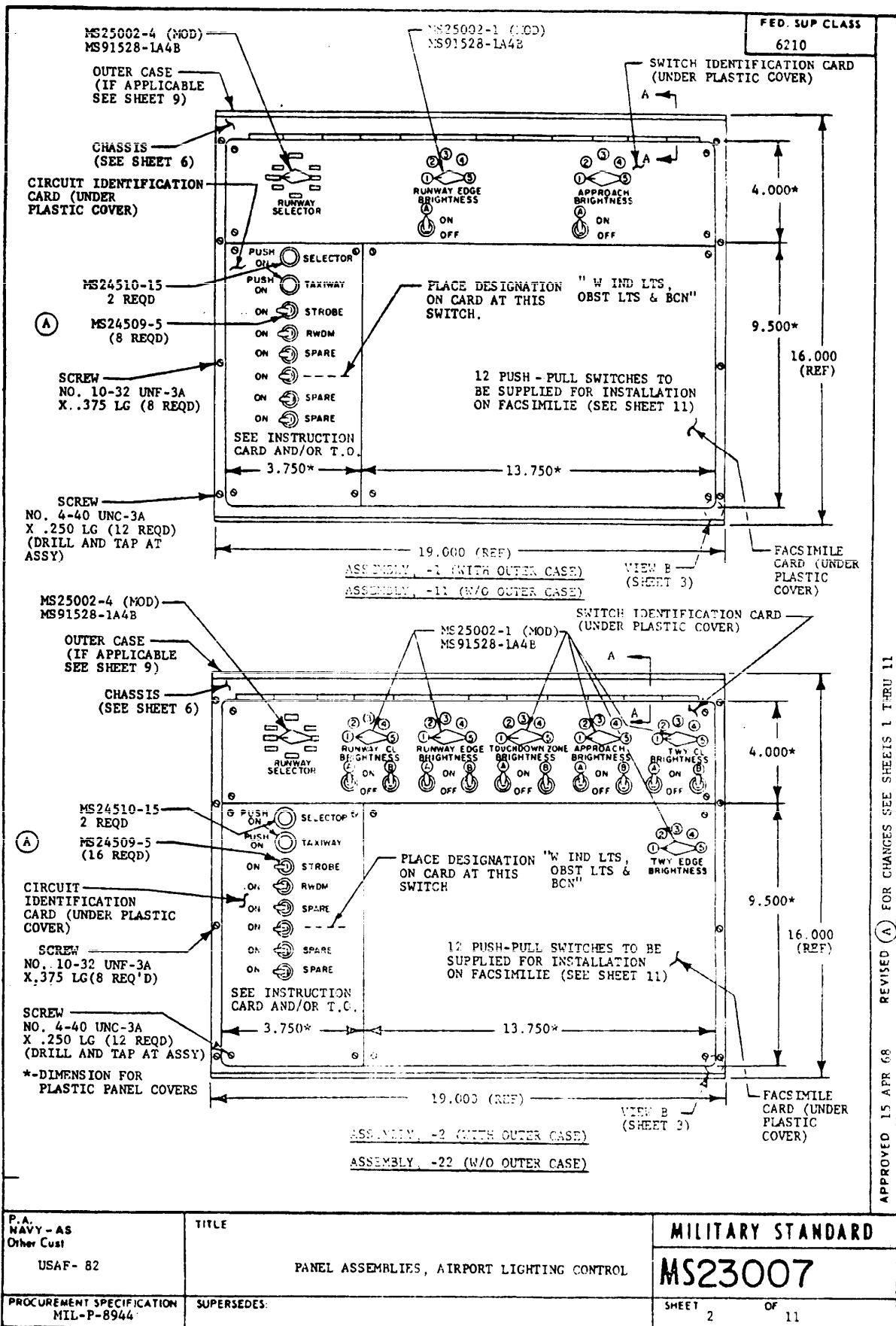
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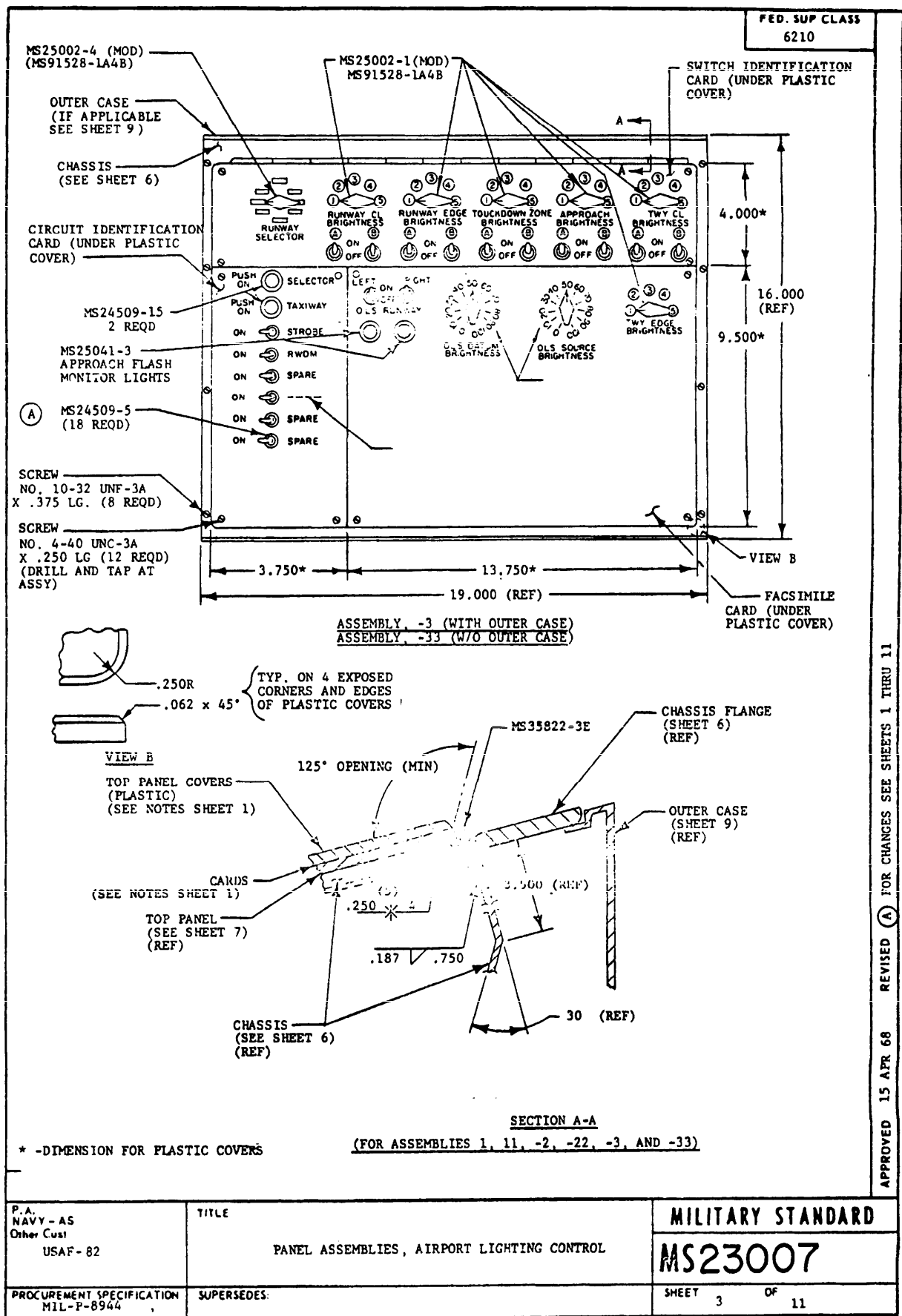
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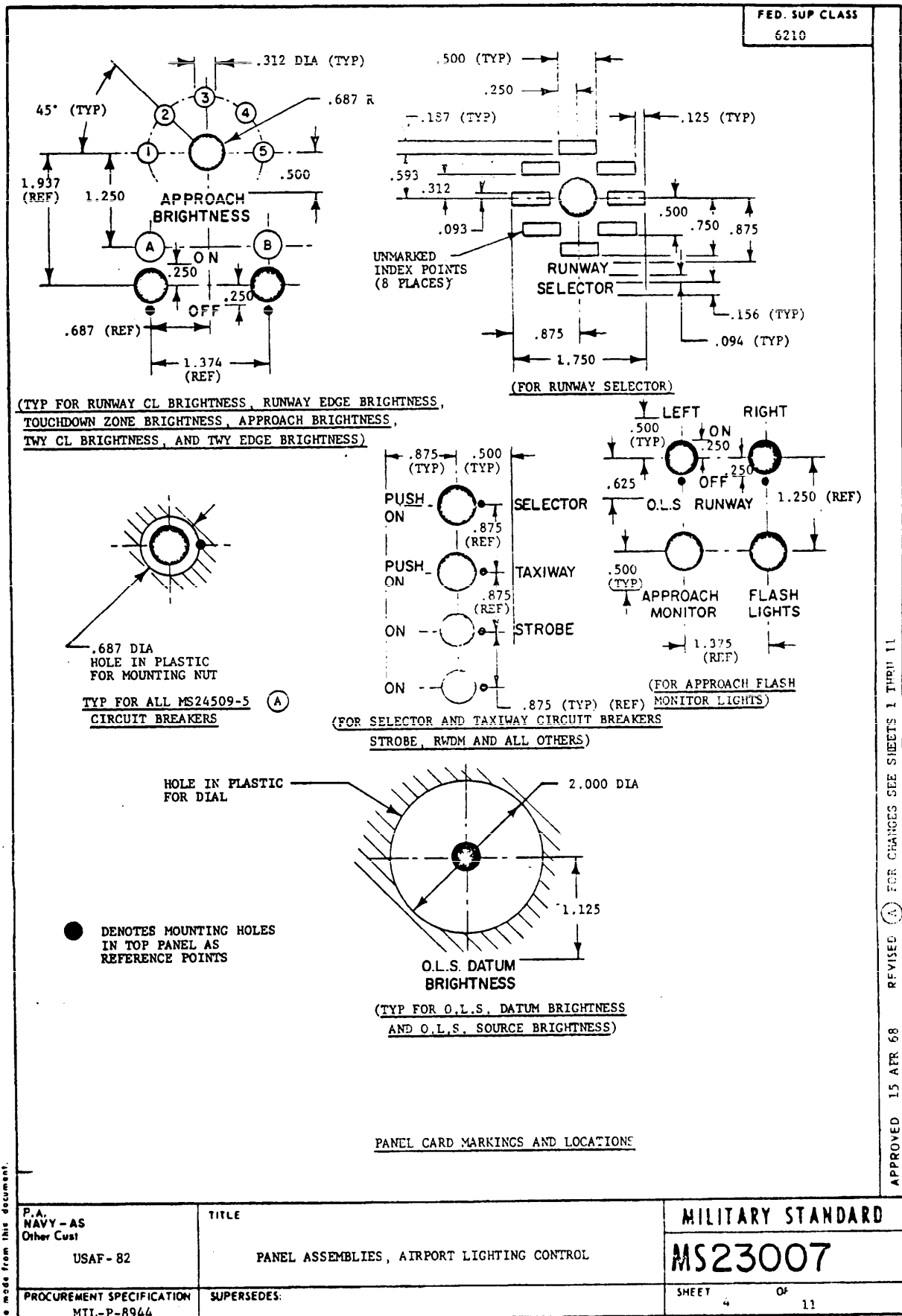
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NAVY - AS  
Other Cust  
USAF - 82

PROCUREMENT SPECIFICATION  
MIL-P-8944

TITLE

PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL

SUPERSEDES:

MILITARY STANDARD

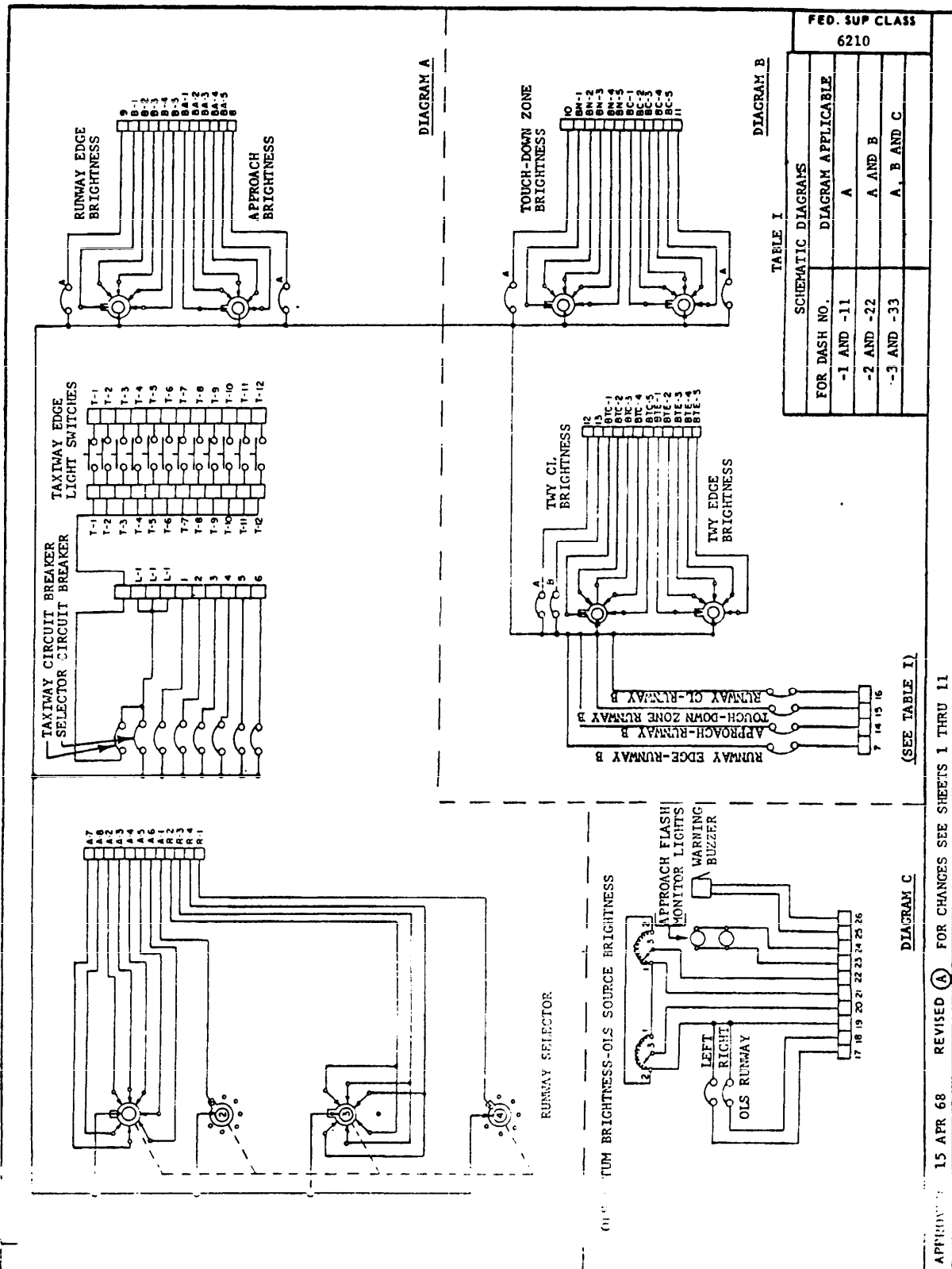
MS23007

SHEET 5 OF 11

DD FORM 672-1 (Coordinated)  
1 MAR 72

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PLATE NO. 23009



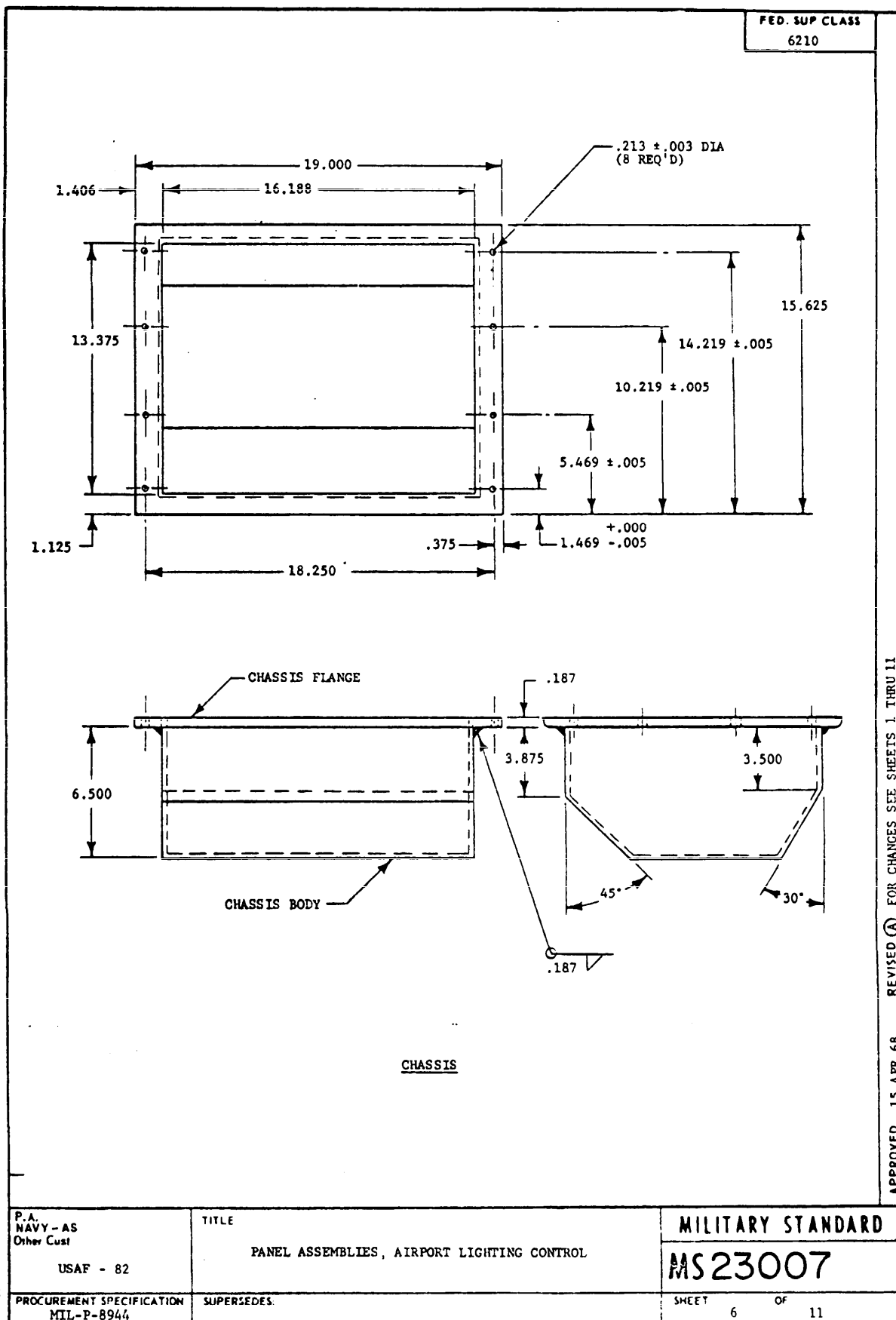
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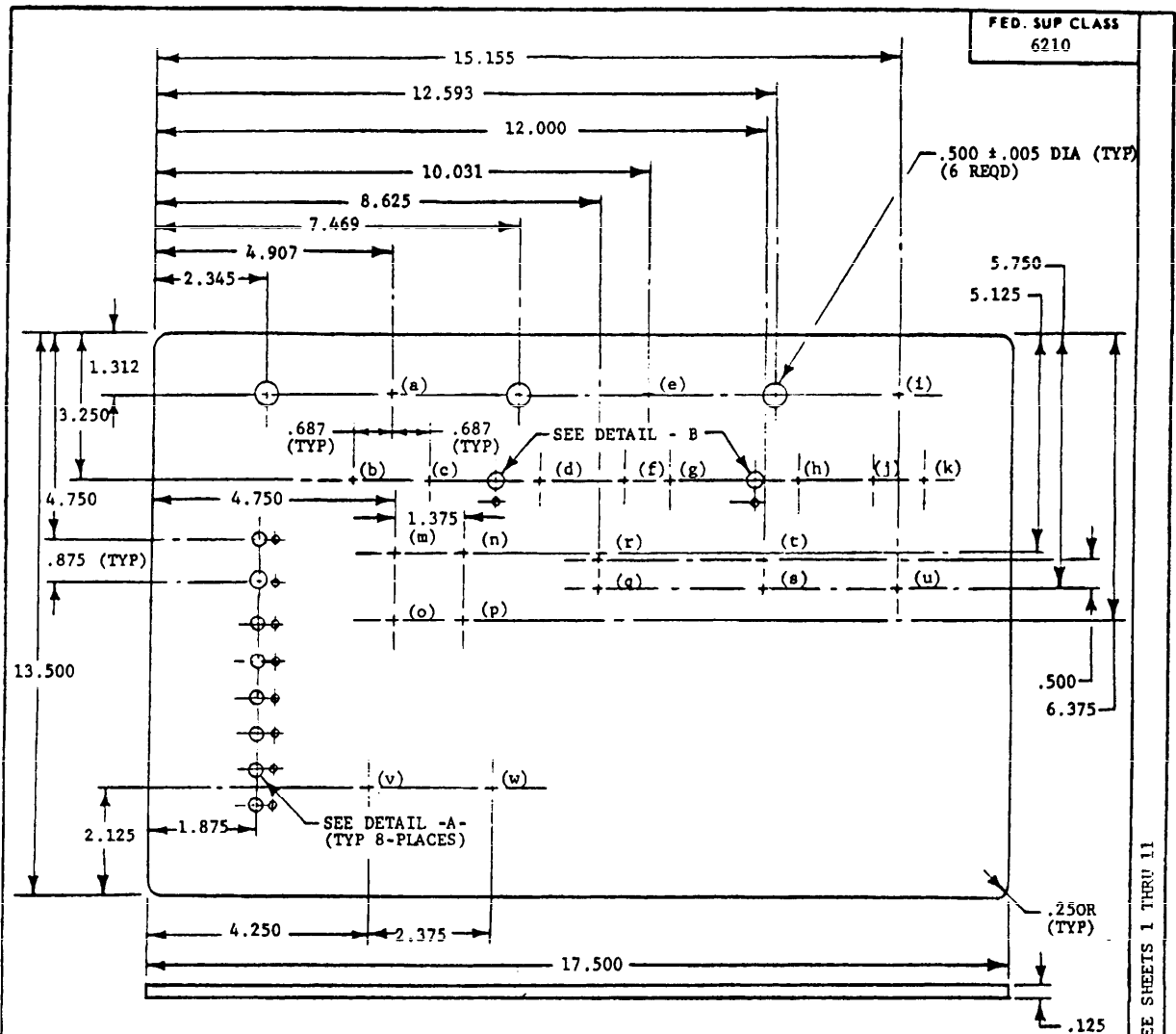
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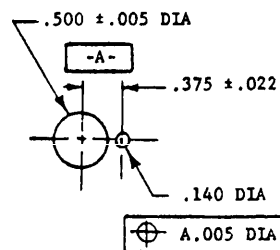
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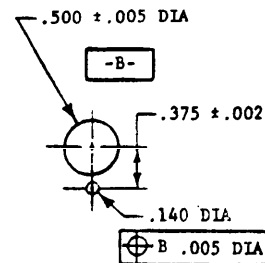
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TOP PANEL (SEE TABLE II)



DETAIL - A-



DETAIL - B-

NOTE: REMOVE BURRS AND BREAK SHARP EDGES .015 MAX

P.A. NAVY - AS Other Cust  USAF - 82	TITLE  PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL	MILITARY STANDARD <b>MS23007</b>
PROCUREMENT SPECIFICATION: MIL-P-8944	SUPERSEDES.	SHEET 7 OF 11



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TABLE II				
HOLE	HOLE DIAMETER $\pm .005$			
	MS23007-1 MS23007-11	MS23007-2 MS23007-22	MS23007-3 MS23007-33	SEE DETAIL - B
a	.047	.500	.500	
b	.047	.500	.500	*
c	.047	.500	.500	*
d	.047	.500	.500	*
e	.047	.500	.500	
f	.047	.500	.500	*
g	.047	.500	.500	*
h	.047	.500	.500	*
i	.047	.500	.500	
j	.047	.500	.500	*
k	.047	.500	.500	*
m	.047	.047	.500	*
n	.047	.047	.500	*
o	.047	.047	.500	
p	.047	.047	.500	
q	.047	.047	.386	
r	.047	.047	.185	
s	.047	.047	.385	
t	.047	.047	.185	
u	.047	.500	.500	
v	.047	.047	.144	⊗
w	.047	.047	.144	⊗

⊗ - COUNTERSINK FOR NO. 6 FLAT HEAD SCREW

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P.A. NAVY - AS Other Cust	TITLE  PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL	MILITARY STANDARD  MS23007
USAF - 82  PROCUREMENT SPECIFICATION MIL-P-8944	SUPERSEDES:	SHEET 8 OF 11

DD FORM 672-1 (Coordinated)  
1 MAR 72

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PLATE NO. 73085



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		FED. SUP CLASS 6210
OUTER CASE		
P.A. NAVY - AS Other Cust	TITLE  PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL	MILITARY STANDARD
USAF - 82		MS23007
PROCUREMENT SPECIFICATION MIL-P-8944	SUPERSEDES:	SHEET 9 OF 11

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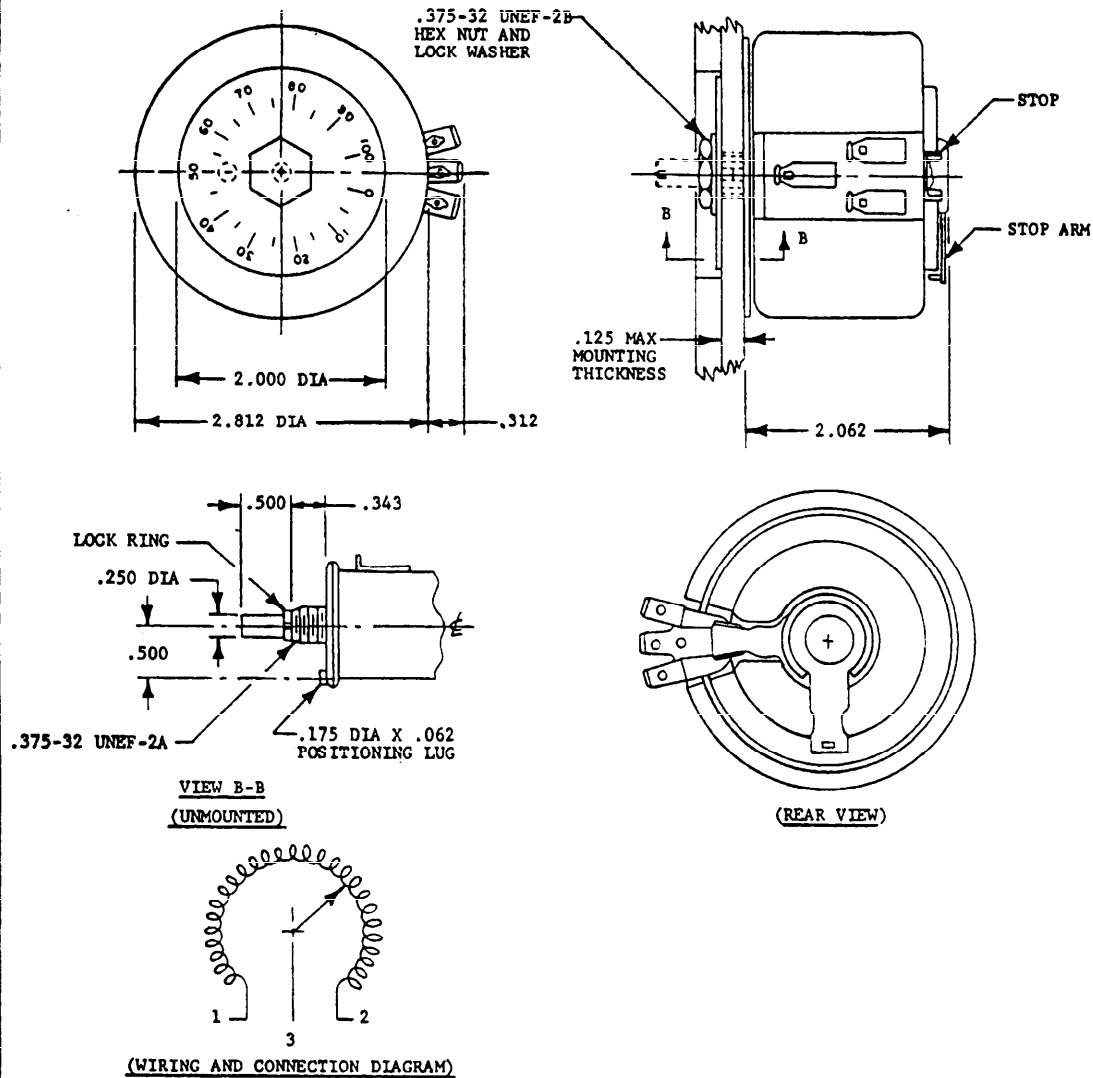
FED. SUP CLASS  
6210

TABLE III									
KNOB ROTATION (322°)	INPUT			OUTPUT					
				VOLTS	TERMS	CONSTANT CURRENT		CONSTANT IMPEDANCE	
	VOLTS	CYCLES	TERMS			MAX AMPS	MAX KVA	MAX AMPS	MAX KVA
CW	120	50/60	1-2	0-120	1-3	2.25	0.27	3.0	0

VARIABLE TRANSFORMER (SEE TABLE III)

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USAF - 82	PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL	MS23007
PROCUREMENT SPECIFICATION MIL-P-8944	SUPERSEDES:	SHEET 10 OF 11

DD FORM 1 MAR 72 672-1 (Coordinated)

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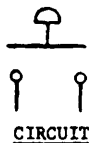
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CURRENT CAPACITY 125 VOLTS, 60 CYCLES
INDUCTIVE
3A 80% P.F.

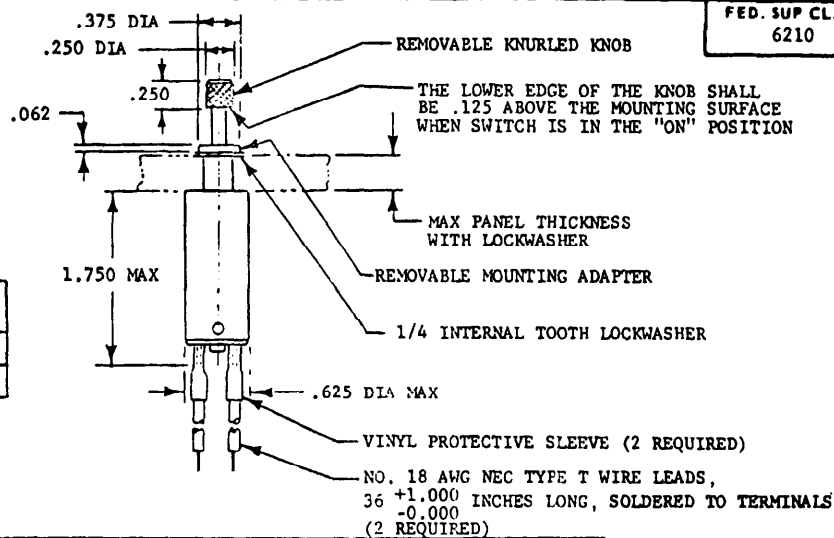
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TABLE IV - PUSH-PULL SWITCH (SEE NOTE 8)

SWITCH DATA	
TYPE	SPST PUSH-PULL
ACTUATING FORCE	1 ± 1/2 LB
TOTAL TRAVEL	1/4 MIN
MINIMUM OPERATING CYCLES	10,000 AT 3A, 125V AC
WEIGHT	.04 LB MAX
STRENGTH OF PUSH BUTTON AND PUSH BUTTON STOP	15 LBS
STRENGTH OF TERMINALS	5 LBS
CONTACT GAP	DOUBLE .020
AMBIENT TEMPERATURE RANGE	-20°C TO 55°C

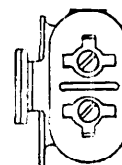
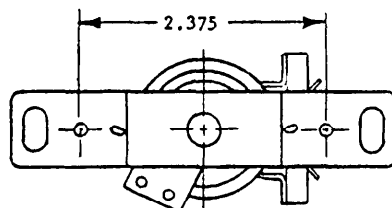


TABLE V - WARNING BUZZER (W/O LEADS) (EDWARDS 1054 FLASH BUZZER OR EQUAL)

OPERATING CHARACTERISTICS					MOUNTING	MIN DEPTH IN INCHES OF OUTLET BOX AND/ OR PLASTIC COVER	FINISH PLATE	APPROX WEIGHT LBS
VOLTS AC	V-A	AMPS	DC OHMS	FINISH				
120	6.0	.05	1400	ZINC PLATED	MOUNTS ON ANY STANDARD SINGLE GANG BOX OR SINGLE GANG OPENING	1-3/8	STD GANG PLATE WITH SINGLE TOGGLE OPENING (NOT SUPPLIED)	1/4

TABLE VI - WIRING AND MODIFICATION FOR MS25002 SWITCH

PART NO.	WAFER NO.	ELECTRICAL CONNECTIONS WITH KNOB POINTER AT POSITION								
		1	2	3	4	5	6	7	8	
MS25002-1	1	-	-	11-13	11-14	11-15	11-16	11-17	-	5 POSITION - NO OFF
MS25002-4 MODIFIED	1	-	11-12	11-13	11-14	11-15	11-16	11-17	11-18	8 POSITION - NO OFF CONTINUOUS ROTATION
	2	21-22	-	-	-	-	-	-	-	
	3	-	31-32	31-33	31-34	31-35	31-36	31-37	31-38	
	4	41-42	-	-	-	-	-	-	-	

P.A.  
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PROCUREMENT SPECIFICATION  
MIL-P-8944

TITLE

PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL

SUPERSEDES.

MILITARY STANDARD

MS23007

SHEET 11 OF 11

