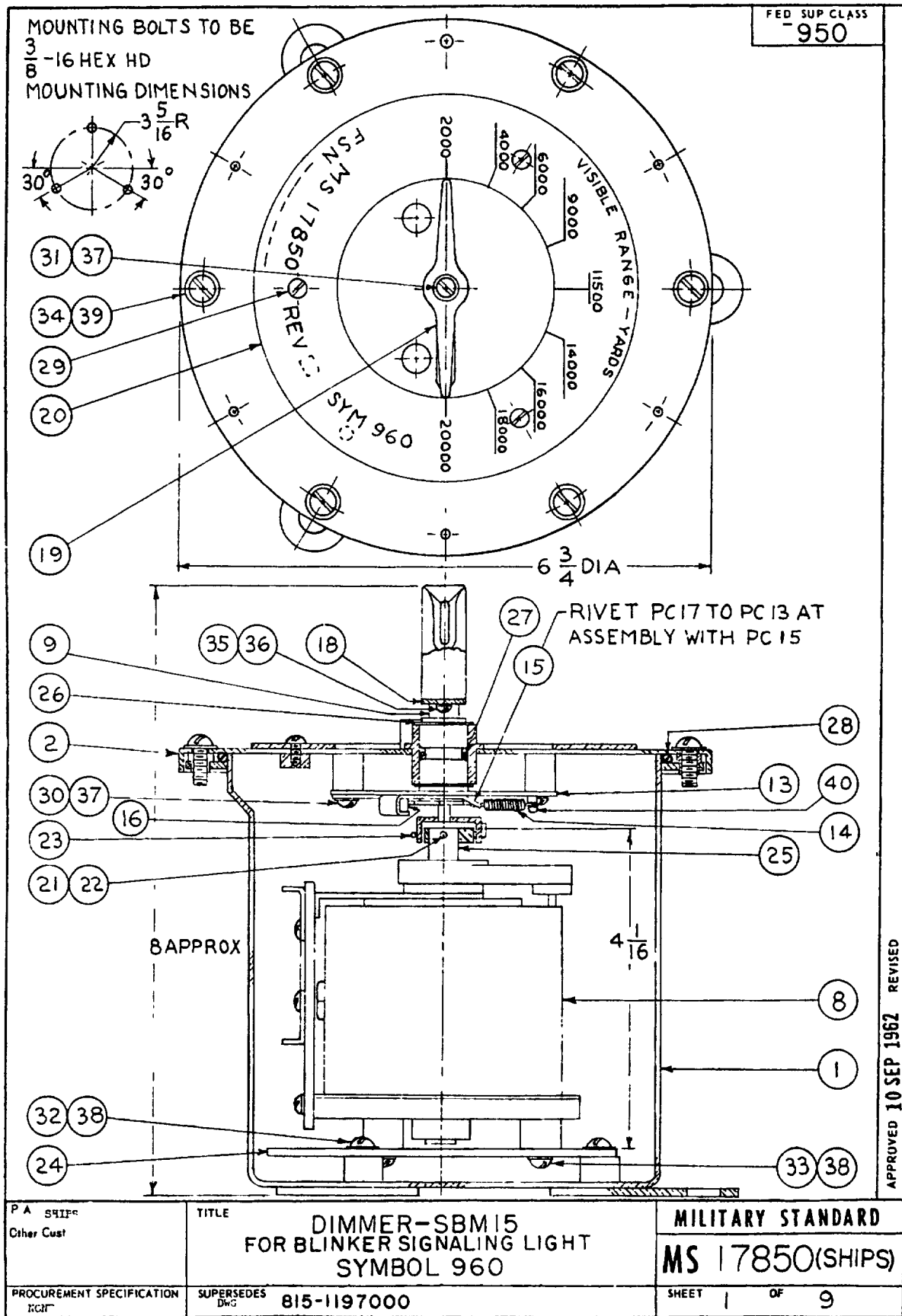


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FED SUP CLASS  
5950

# LIST OF MATERIAL - QUANTITIES FOR ONE UNIT

| PC NO | NAME                                      | QTY | MATERIAL         | SPECIFICATION | REQUIREMENTS  |
|-------|-------------------------------------------|-----|------------------|---------------|---------------|
| 1     | ASSY, BOX                                 | 1   |                  |               | MS17848-2 MOD |
| 2     | ASSY, COVER                               |     |                  |               |               |
| 3     | COVER                                     |     |                  |               |               |
| 4     | BUSHING                                   | 1   | MANGANESE BRONZE |               |               |
| 5     | PAD                                       | 2   | BRASS            |               |               |
| 6     | PAD                                       | 2   | BRASS            |               |               |
| 7     | PAD, IDENTIFICATION PLATE                 | 3   | BRASS            |               |               |
| 8     | AUTOTRANSFORMER                           | 1   |                  |               | REQ'T 3 & 6   |
| 9     | ASSY SHAFT                                |     |                  |               |               |
| 10    | DISC, INDEXING                            | 1   | BERYLLIUM COPPER |               |               |
| 11    | SHAFT                                     | 1   | CRES             |               |               |
| 12    | COUPLER                                   | 1   | BRASS            |               |               |
| 13    | BASEPLATE                                 | 1   | BRASS            |               |               |
| 14    | SPRING                                    | 2   | MUSIC WIRE       |               |               |
| 15    | ARM, INDEXING                             | 2   | BERYLLIUM COPPER |               |               |
| 16    | ROLLER, INDEXING                          | 2   | STEEL            |               |               |
| 17    | STUD, INDEXING ARM                        | 2   | STAINLESS STEEL  |               |               |
| 18    | POINTER                                   | 1   | BRASS            |               |               |
| 19    | HANDLE                                    | 1   | BRASS            |               |               |
| 20    | PLATE, IDENTIFICATION                     | 1   | BRASS            |               |               |
| 21    | PLATE, COUPLER                            | 1   | STEEL            |               |               |
| 22    | PIN, SPRING 1/2 LG X .062 THK             | 1   | CRES             |               |               |
| 23    | SPRING                                    | 1   | PHOS BRONZE      |               |               |
| 24    | PLATE, MOUNTING                           | 1   | BRASS            |               |               |
| 25    | SHAFT, TRANSFORMER                        |     |                  |               | REQ'T 5 & 7   |
| 26    | RING, RETAINING                           | 2   | CRES             |               | MS 16632-4062 |
| 27    | PACKING, "O" RING                         | 1   | NEOPRENE         |               | AN6227-9      |
| 28    | GASKET "O" RING                           | 1   | NEOPRENE         |               | AN6230-32     |
| 29    | SCREW, RH., #6-32 X 3/16 LG               | 3   | BRASS            |               |               |
| 30    | SCREW, RH., #6-32 X 3/8 LG                | 2   | BRASS            |               |               |
| 31    | SCREW, RH., #6-32 X 1/2 LG                | 1   | BRASS            |               |               |
| 32    | SCREW, RH., #10-24 X 5/16 LG              | 3   | BRASS            |               |               |
| 33    | SCREW, RH., #10-32 X 3/8 LG               | 3   | BRASS            |               |               |
| 34    | SCREW, RH., #10-24 X 1/2 LG               | 6   | BRASS            |               |               |
| 35    | SCREW, RH., #5-40 X 5/16 LG               | 2   | BRASS            |               |               |
| 36    | WASHER, LOCK, FOR #5 SCREW                | 2   | PHOS BRONZE      |               |               |
| 37    | WASHER, LOCK, FOR #6 SCREW                | 3   | PHOS BRONZE      |               |               |
| 38    | WASHER, LOCK, FOR #10 SCREW               | 6   | PHOS BRONZE      |               |               |
| 39    | WASHER, 9/16 O.D. X 13/64 I.D. X .032 THK | 6   | BRASS            |               |               |
| 40    | STUD, SPRING                              | 2   | STEEL            |               |               |

APPROVED 10 SEP 1962 REVISED

|                                   |                                                                    |                                      |
|-----------------------------------|--------------------------------------------------------------------|--------------------------------------|
| P A SHIPS<br>Other Cust           | TITLE<br>DIMMER-SBM15<br>FOR BLINKER SIGNALING LIGHT<br>SYMBOL 960 | MILITARY STANDARD<br>MS 17850(SHIPS) |
| PROCUREMENT SPECIFICATION<br>NONE | SUPERSEDES<br>DWC. 815-1197000                                     | SHEET 2                              |

This standard has been approved by the BUREAU OF SHIPS Department of the NAVY and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.



|                                  |                                                                              |                        |
|----------------------------------|------------------------------------------------------------------------------|------------------------|
| P A. <b>SRIPS</b><br>Other Cust  | TITLE<br><b>DIMMER-SBM 15<br/>FOR BLINKER SIGNALING LIGHT<br/>SYMBOL 960</b> | MILITARY STANDARD      |
|                                  |                                                                              | <b>MS 17850(SHIPS)</b> |
| PROCUREMENT SPECIFICATION<br>NO. | SUPERSEDES<br>DWG, <b>815-1197000</b>                                        | SHEET<br><b>3</b>      |

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FED SUP CLASS  
5950

20  $\frac{1}{16}$  THK

ENGRAVE AS SHOWN & FILL WITH BLACK ENAMEL

$\frac{1}{8}$  LETTERS

VISIBLE RANGE-YARDS

11500

14000

16000

18000

20000

2000

4000

6000

8000

10000

12000

14000

16000

18000

20000

22  $\frac{1}{2}$

2  $\frac{3}{4}$  DIA

$\frac{7}{8}$  R

SYN 960

FSN MS 17850

REV

4  $\frac{7}{8}$  DIA

8 DIVISIONS EQUALLY SPACED

MFRS MONOGRAM

CURRENT REV LTR AT TIME OF MFR

$\frac{5}{32}$  DIA 3 HOLES, EQUALLY SPACED

24  $\frac{3}{32}$  THK

$\frac{7}{32}$  DIA 6 HOLES

2 R

2 DIA

$1\frac{1}{4}$  R

30°

25°

4  $\frac{7}{16}$  DIA

.062 DRILL AT ASSY WITH PC 21

25

$\frac{3}{32}$

4

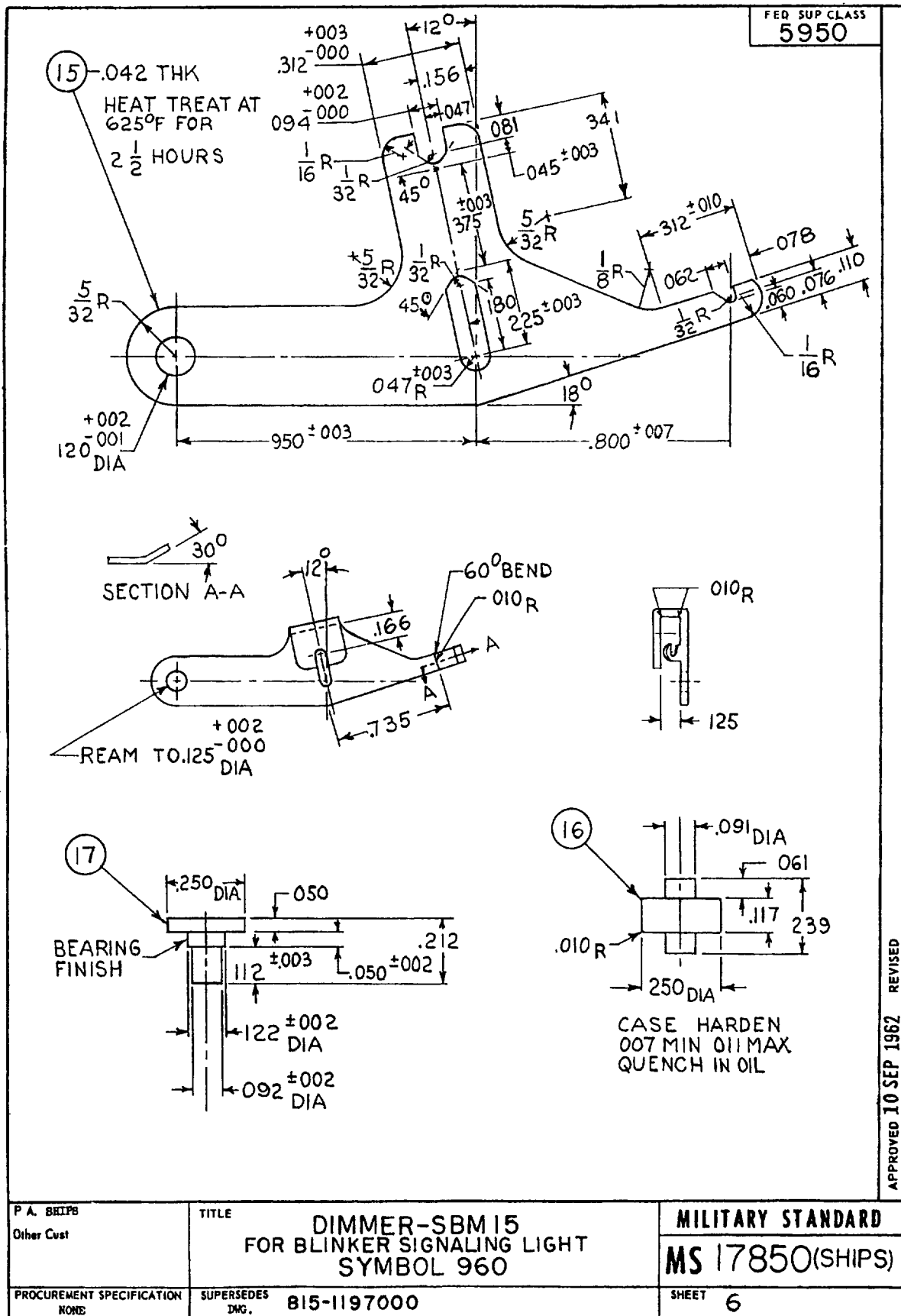
APPROVED 10 SEP 1962 REVISED

|                                   |                                                                              |                                             |
|-----------------------------------|------------------------------------------------------------------------------|---------------------------------------------|
| P.A. SKIPS<br>Other Cust          | TITLE<br><b>DIMMER-SBM 15<br/>FOR BLINKER SIGNALING LIGHT<br/>SYMBOL 960</b> | MILITARY STANDARD<br><b>MS 17850(SHIPS)</b> |
| PROCUREMENT SPECIFICATION<br>NONE | SUPERSEDES<br>DWG<br><b>815-1197000</b>                                      | SHEET<br><b>4</b>                           |

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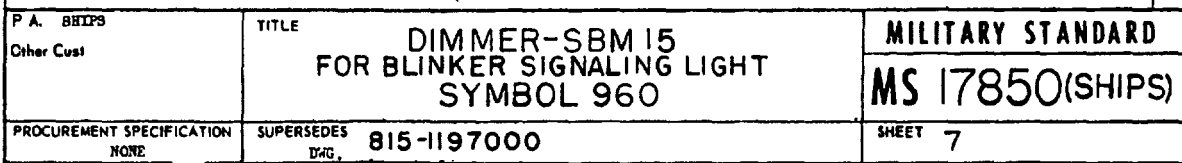
|                                          |                                                                              |                                             |
|------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------|
| P A. <b>SHIPS</b><br>Other Cust          | TITLE<br><b>DIMMER-SBM 15<br/>FOR BLINKER SIGNALING LIGHT<br/>SYMBOL 960</b> | MILITARY STANDARD<br><b>MS 17850(SHIPS)</b> |
| PROCUREMENT SPECIFICATION<br><b>NONE</b> | SUPERSEDES DNG<br><b>815-1197000</b>                                         | SHEET<br><b>5</b>                           |

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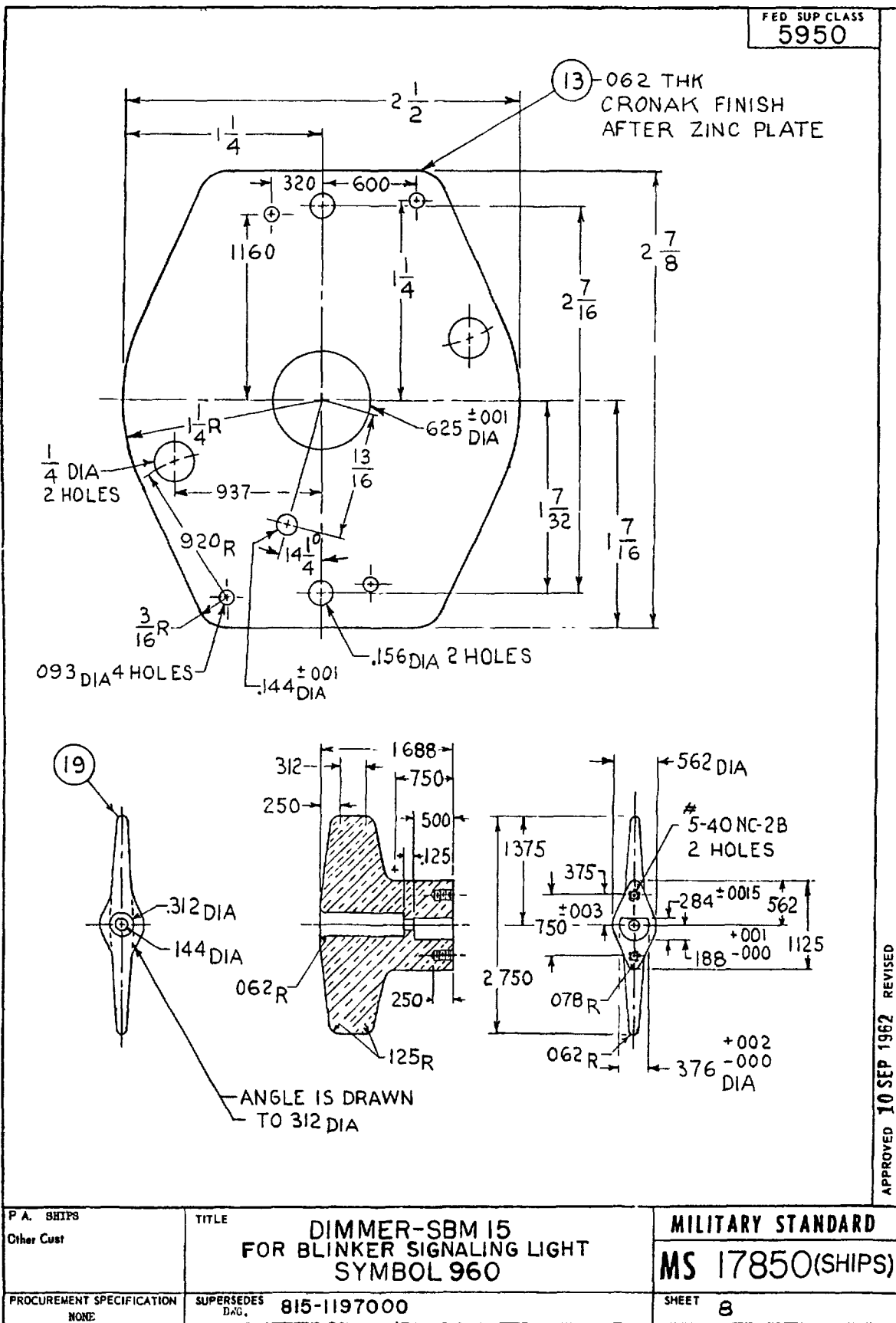
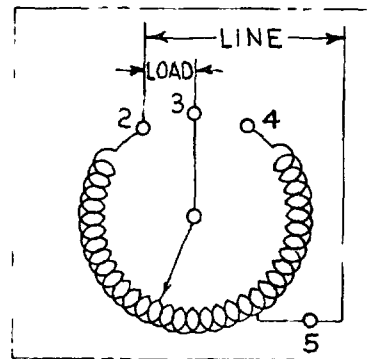


TABLE (SEE REQ'T 6)

| OUTPUT VOLTAGE | VISIBLE RANGE YARDS (APPROX) |
|----------------|------------------------------|
| 120            | 20,000                       |
| 109.8          | 18,000                       |
| 99.6           | 16,000                       |
| 89.4           | 14,000                       |
| 79.2           | 11,500                       |
| 69.0           | 9,000                        |
| 58.8           | 6,000                        |
| 48.6           | 4,000                        |
| 38.4           | 2,000                        |

WIRING DIAGRAM



## REQUIREMENTS

1. DETAIL AND GENERAL REQUIREMENTS SHALL COMPLY WITH NOTES 16, 17, 20, 21, 22, 23, 24, 25, 27 & 44 OF MILITARY STANDARD MS16662.
2. SAMPLING, INSPECTION AND TEST PROCEDURE SHALL COMPLY WITH NOTES 37, 38, 40, 54, 55, 56B & 65 OF MILITARY STANDARD MS16662.
3. AUTOTRANSFORMER, PC 8, SHALL MEET THE FOLLOWING REQUIREMENTS INPUT, 115 VOLTS, 50 TO 60 CYCLES, SINGLE PHASE. OUTPUT, 0-115 & 0-135 VOLTS. RATED OUTPUT IN AMPS, 2, MAX. OUTPUT IN AMPS 3, KVA 0.345. OVERALL DIMENSIONS 3 1/2 DIA EXCLUDING TERMINALS, 3 7/8 HIGH EXCLUDING HANDLE. TERMINAL DATA 5 TERMINALS, SCREW LUG TYPE, LOCATED ON SIDE. MOUNTING DATA 3 MOUNTING HOLES TAPPED FOR #10-32 SCREWS ON 1 1/4 RADIUS, EQUALLY SPACED.
4. CARE SHALL BE TAKEN NOT TO DRAW TEMPER FROM PC 10 WHILE BRAZING PCS 11 & 12.
5. VARIABLE BRUSH ARM ON THE AUTOTRANSFORMER, PC 8, SHALL BE ADJUSTED TO AN OUTPUT OF 120 VOLTS WHEN HANDLE, PC 19, IS IN THE 20,000 YARD RANGE WITH LINE INPUT OF 115 VOLTS AC.
6. FOR EACH CHANGE IN HANDLE POSITION THE AUTOTRANSFORMER OUTPUT SHALL VARY APPROXIMATELY  $10 \pm 0.5$  VOLTS. SEE TABLE.
7. IN ADJUSTING VARIABLE BRUSH ARM, CARE SHALL BE TAKEN TO SEE THAT GOOD CONTACT IS MAINTAINED BETWEEN BRUSH AND WINDINGS.

## NOTES

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

(Project 5950-110666h)

|                                   |                                                                     |                   |
|-----------------------------------|---------------------------------------------------------------------|-------------------|
| P A SHIPS<br>Other Cust           | TITLE<br>DIMMER-SBM 15<br>FOR BLINKER SIGNALING LIGHT<br>SYMBOL 960 | MILITARY STANDARD |
|                                   |                                                                     | MS 17850(SHIPS)   |
| PROCUREMENT SPECIFICATION<br>NCNB | SUPERSEDES<br>D'D 815-1197000                                       | SHEET 9           |

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