

REV.  
B

RATIONALE

REDRAWN TO PROVIDE ALTERNATIVE METHOD OF MANUFACTURE OF THE LIGHTENING HOLE.

NOTICE

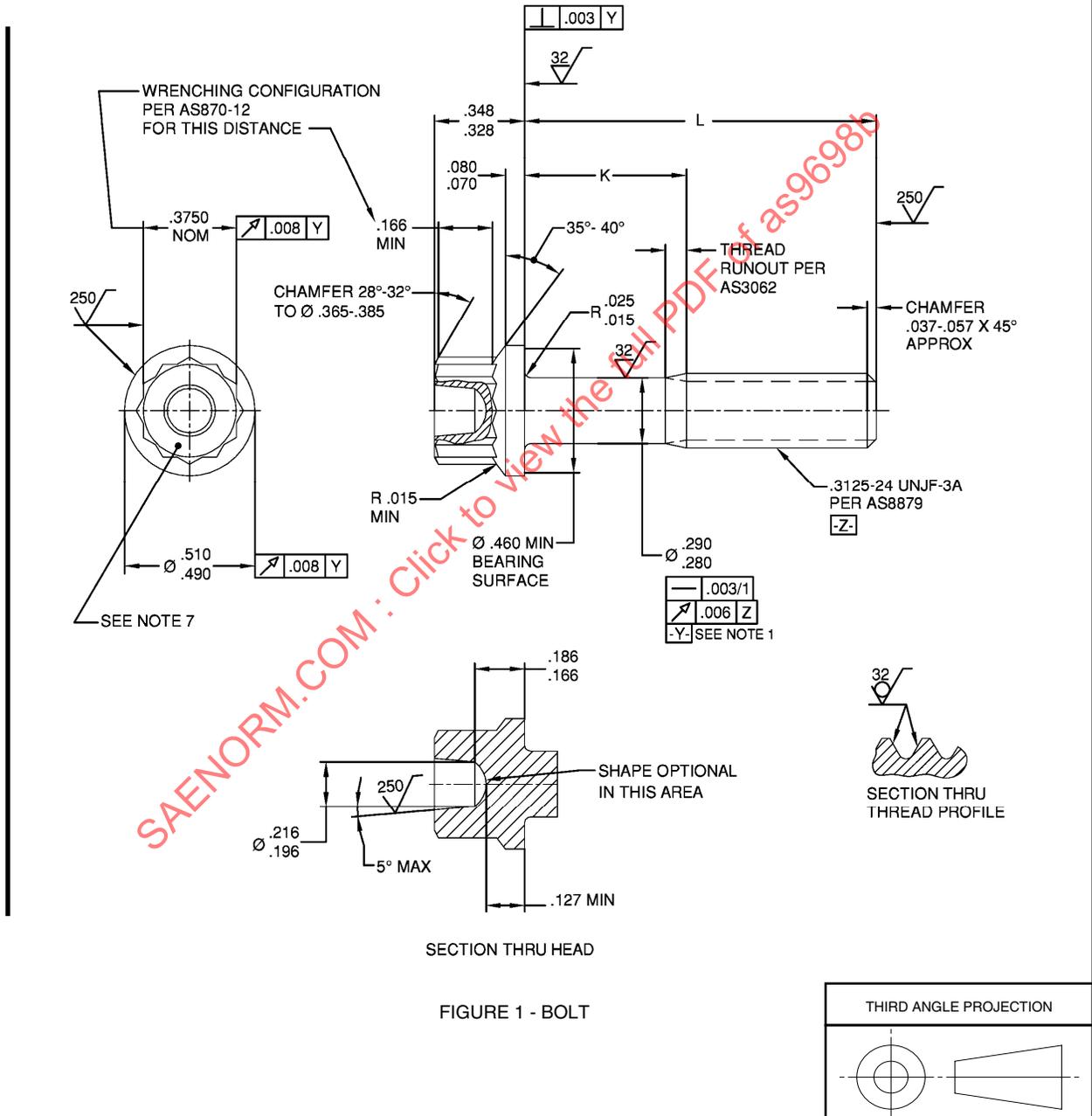
THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9698A, NOTICE 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL) MAY CONTINUE TO BE MANDATORY FOR DOD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

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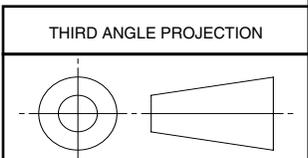
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SECTION THRU HEAD

FIGURE 1 - BOLT



CUSTODIAN: SAE E-25

|                                   |   |  |                                       |                      |
|-----------------------------------|---|--|---------------------------------------|----------------------|
| <p>An SAE International Group</p> | <p><b>AEROSPACE STANDARD</b></p> <p>BOLT, MACHINE - DOUBLE HEXAGON EXTENDED<br/>WASHER HEAD, PD SHANK, CORROSION AND HEAT<br/>RESISTANT STEEL, UNS N07001, 165 KSI MIN, .3125-24 UNJF-3A</p>  |  | <p><b>AS9698</b><br/>SHEET 1 OF 3</p> | <p><b>REV. B</b></p> |
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ISSUED 2003-09 REVISED 2007-07

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TABLE 1 - PART NUMBERS AND DIMENSIONS

| PART NUMBER | L             | K             | APPROX. MASS LB/100 | PART NUMBER | L             | K             | APPROX. MASS LB/100 |
|-------------|---------------|---------------|---------------------|-------------|---------------|---------------|---------------------|
| MS9698-04   | .490 - .510   | .088 - .108   | 2.17                | MS9698-32   | 2.615 - 2.635 | 1.690 - 1.750 | 6.19                |
| MS9698-05   | .552 - .572   | .088 - .108   | 2.29                | MS9698-33   | 2.740 - 2.760 | 1.815 - 1.875 | 6.42                |
| MS9698-06   | .615 - .635   | .088 - .108   | 2.41                | MS9698-34   | 2.865 - 2.885 | 1.940 - 2.000 | 6.66                |
| MS9698-07   | .678 - .698   | .088 - .108   | 2.52                | MS9698-35   | 2.990 - 3.010 | 2.065 - 2.125 | 6.90                |
| MS9698-08   | .740 - .760   | .088 - .108   | 2.64                | MS9698-36   | 3.115 - 3.135 | 2.190 - 2.250 | 7.13                |
| MS9698-09   | .802 - .822   | .088 - .108   | 2.76                | MS9698-37   | 3.240 - 3.260 | 2.315 - 2.375 | 7.36                |
| MS9698-10   | .865 - .885   | .088 - .108   | 2.88                | MS9698-38   | 3.365 - 3.385 | 2.440 - 2.500 | 7.60                |
| MS9698-11   | .928 - .948   | .088 - .108   | 3.00                | MS9698-39   | 3.490 - 3.510 | 2.565 - 2.625 | 7.84                |
| MS9698-12   | .990 - 1.010  | .088 - .125   | 3.11                | MS9698-40   | 3.615 - 3.635 | 2.690 - 2.750 | 8.07                |
| MS9698-13   | 1.052 - 1.072 | .128 - .188   | 3.23                | MS9698-41   | 3.740 - 3.760 | 2.815 - 2.875 | 8.31                |
| MS9698-14   | 1.115 - 1.135 | .190 - .250   | 3.35                | MS9698-42   | 3.865 - 3.885 | 2.940 - 3.000 | 8.54                |
| MS9698-15   | 1.178 - 1.198 | .252 - .312   | 3.47                | MS9698-43   | 3.990 - 4.010 | 3.065 - 3.125 | 8.78                |
| MS9698-16   | 1.240 - 1.260 | .315 - .375   | 3.59                | MS9698-44   | 4.115 - 4.135 | 3.190 - 3.250 | 9.02                |
| MS9698-17   | 1.302 - 1.322 | .378 - .438   | 3.70                | MS9698-45   | 4.240 - 4.260 | 3.315 - 3.375 | 9.25                |
| MS9698-18   | 1.365 - 1.385 | .440 - .500   | 3.82                | MS9698-46   | 4.365 - 4.385 | 3.440 - 3.500 | 9.49                |
| MS9698-19   | 1.428 - 1.448 | .502 - .562   | 3.94                | MS9698-47   | 4.490 - 4.510 | 3.565 - 3.625 | 9.72                |
| MS9698-20   | 1.490 - 1.510 | .565 - .625   | 4.06                | MS9698-48   | 4.615 - 4.635 | 3.690 - 3.750 | 9.96                |
| MS9698-21   | 1.552 - 1.572 | .628 - .688   | 4.18                | MS9698-49   | 4.740 - 4.760 | 3.815 - 3.875 | 10.20               |
| MS9698-22   | 1.615 - 1.635 | .690 - .750   | 4.29                | MS9698-50   | 4.865 - 4.885 | 3.940 - 4.000 | 10.43               |
| MS9698-23   | 1.678 - 1.698 | .752 - .812   | 4.41                | MS9698-51   | 4.990 - 5.010 | 4.065 - 4.125 | 10.67               |
| MS9698-24   | 1.740 - 1.760 | .815 - .875   | 4.53                | MS9698-52   | 5.115 - 5.135 | 4.190 - 4.250 | 10.91               |
| MS9698-25   | 1.802 - 1.822 | .877 - .938   | 4.65                | MS9698-53   | 5.240 - 5.260 | 4.315 - 4.375 | 11.14               |
| MS9698-26   | 1.865 - 1.885 | .940 - 1.000  | 4.77                | MS9698-54   | 5.365 - 5.385 | 4.440 - 4.500 | 11.38               |
| MS9698-27   | 1.990 - 2.010 | 1.065 - 1.125 | 5.00                | MS9698-55   | 5.490 - 5.510 | 4.565 - 4.625 | 11.61               |
| MS9698-28   | 2.115 - 2.135 | 1.190 - 1.250 | 5.24                | MS9698-56   | 5.615 - 5.635 | 4.690 - 4.750 | 11.85               |
| MS9698-29   | 2.240 - 2.260 | 1.315 - 1.375 | 5.48                | MS9698-57   | 5.740 - 5.760 | 4.815 - 4.875 | 12.09               |
| MS9698-30   | 2.365 - 2.385 | 1.440 - 1.500 | 5.71                | MS9698-58   | 5.865 - 5.885 | 4.940 - 5.000 | 12.32               |
| MS9698-31   | 2.490 - 2.510 | 1.565 - 1.625 | 5.95                | MS9698-59   | 5.990 - 6.010 | 5.065 - 5.125 | 12.56               |



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BOLT, MACHINE - DOUBLE HEXAGON EXTENDED  
WASHER HEAD, PD SHANK, CORROSION AND HEAT  
RESISTANT STEEL, UNS N07001, 165 KSI MIN, .3125-24 UNJF-3A

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SHEET 2 OF 3

**REV.**  
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