

REV.  
B

SAE AS91601

FEDERAL SUPPLY CLASS  
5306

RATIONALE

AS91601B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9160A. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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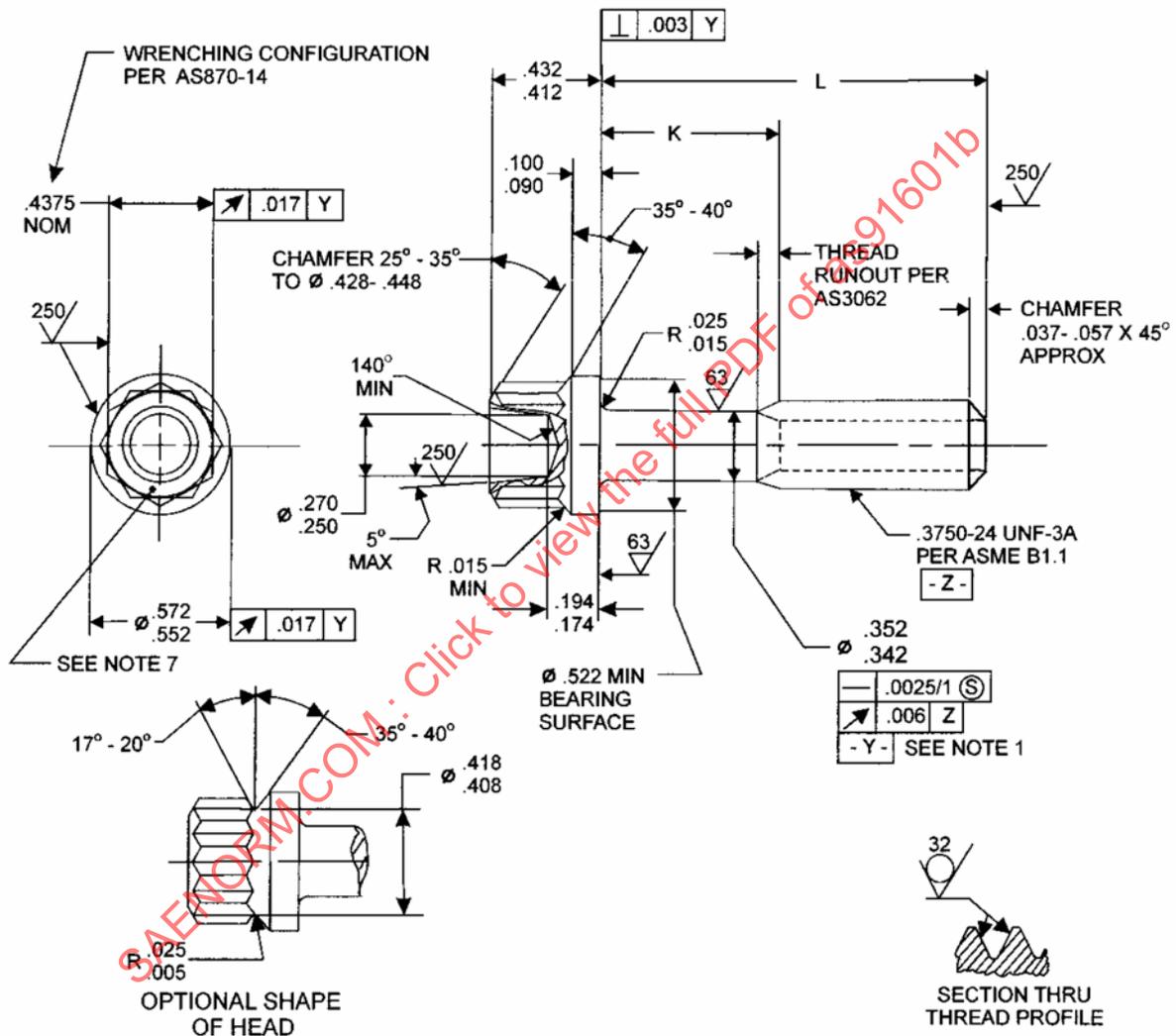
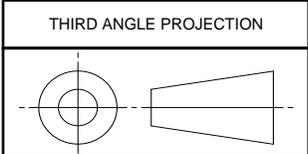


FIGURE 1 - BOLT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS91601B>



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**  
BOLT, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, PD SHANK, BLACK OXIDE, STEEL, UNS G87400, 125 KSI MIN, .3750-24 UNF-3A

**SAE AS91601**  
SHEET 1 OF 3

**REV. B**

ISSUED 1999-12 REVISED 2004-05 REAFFIRMED 2012-11

TABLE 1 - PART NUMBERS AND DIMENSIONS

| PART NUMBER | L           | K           | APPROX. MASS LB/100 | PART NUMBER | L           | K           | APPROX. MASS LB/100 |
|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|---------------------|
| MS9160-06   | .740- .760  | 1/          | 3.74                | MS9160-32   | 2.990-3.010 | 1.940-2.000 | 9.80                |
| MS9160-07   | .802- .822  | 1/          | 3.90                | MS9160-33   | 3.115-3.135 | 2.065-2.125 | 10.13               |
| MS9160-08   | .865- .885  | 1/          | 4.07                | MS9160-34   | 3.240-3.260 | 2.190-2.250 | 10.47               |
| MS9160-09   | .928- .948  | 1/          | 4.24                | MS9160-35   | 3.365-3.385 | 2.315-2.375 | 10.80               |
| MS9160-10   | .990-1.010  | 1/          | 4.41                | MS9160-36   | 3.490-3.510 | 2.440-2.500 | 11.14               |
| MS9160-11   | 1.052-1.072 | 1/          | 4.58                | MS9160-37   | 3.615-3.635 | 2.565-2.625 | 11.47               |
| MS9160-12   | 1.115-1.135 | .065- .125  | 4.75                | MS9160-38   | 3.740-3.760 | 2.690-2.750 | 11.80               |
| MS9160-13   | 1.178-1.198 | .128- .188  | 4.91                | MS9160-39   | 3.865-3.885 | 2.815-2.875 | 12.14               |
| MS9160-14   | 1.240-1.260 | .190- .250  | 5.08                | MS9160-40   | 3.990-4.010 | 2.940-3.000 | 12.47               |
| MS9160-15   | 1.302-1.322 | .252- .312  | 5.25                | MS9160-41   | 4.115-4.135 | 3.065-3.125 | 12.80               |
| MS9160-16   | 1.365-1.385 | .315- .375  | 5.43                | MS9160-42   | 4.240-4.260 | 3.190-3.250 | 13.13               |
| MS9160-17   | 1.428-1.448 | .378- .438  | 5.60                | MS9160-43   | 4.365-4.385 | 3.315-3.375 | 13.46               |
| MS9160-18   | 1.490-1.510 | .440- .500  | 5.76                | MS9160-44   | 4.490-4.510 | 3.440-3.500 | 13.89               |
| MS9160-19   | 1.552-1.572 | .502- .562  | 5.93                | MS9160-45   | 4.615-4.635 | 3.565-3.625 | 14.23               |
| MS9160-20   | 1.615-1.635 | .565- .625  | 6.10                | MS9160-46   | 4.740-4.760 | 3.690-3.750 | 14.56               |
| MS9160-21   | 1.678-1.698 | .628- .688  | 6.27                | MS9160-47   | 4.865-4.885 | 3.815-3.875 | 14.89               |
| MS9160-22   | 1.740-1.760 | .690- .750  | 6.44                | MS9160-48   | 4.990-5.010 | 3.940-4.000 | 15.23               |
| MS9160-23   | 1.865-1.885 | .815- .875  | 6.77                | MS9160-49   | 5.115-5.135 | 4.065-4.125 | 15.57               |
| MS9160-24   | 1.990-2.010 | .940-1.000  | 7.11                | MS9160-50   | 5.240-5.260 | 4.190-4.250 | 15.90               |
| MS9160-25   | 2.115-2.135 | 1.065-1.125 | 7.44                | MS9160-51   | 5.365-5.385 | 4.315-4.375 | 16.23               |
| MS9160-26   | 2.240-2.260 | 1.190-1.250 | 7.78                | MS9160-52   | 5.490-5.510 | 4.440-4.500 | 16.56               |
| MS9160-27   | 2.365-2.385 | 1.315-1.375 | 8.11                | MS9160-53   | 5.615-5.635 | 4.565-4.625 | 16.89               |
| MS9160-28   | 2.490-2.510 | 1.440-1.500 | 8.44                | MS9160-54   | 5.740-5.760 | 4.690-4.750 | 17.23               |
| MS9160-29   | 2.615-2.635 | 1.565-1.625 | 8.78                | MS9160-55   | 5.865-5.885 | 4.815-4.875 | 17.57               |
| MS9160-30   | 2.740-2.760 | 1.690-1.750 | 9.12                | MS9160-56   | 5.990-6.010 | 4.940-5.000 | 17.91               |
| MS9160-31   | 2.865-2.885 | 1.815-1.875 | 9.46                |             |             |             |                     |

1/ THREAD TO HEAD. MAXIMUM TWO IMPERFECT THREADS.

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|---|---|------------------------------------|---------------|
| <br>An SAE International Group | <b>AEROSPACE STANDARD</b>   | <b>SAE AS91601</b><br>SHEET 2 OF 3 | <b>REV. B</b> |
|   | BOLT, MACHINE - DOUBLE HEXAGON EXTENDED<br>WASHER HEAD, PD SHANK, BLACK OXIDE, STEEL,<br>UNS G87400, 125 KSI MIN, .3750-24 UNF-3A |                                    |               |