

REV.
A

SAE AS9734

FEDERAL SUPPLY CLASS
5306

RATIONALE

COMPLETELY REVISED AND REDRAWN. CHANGES TO ALLOW OPTIONAL SHAPE AT BOTTOM OF LIGHTENING HOLE, ADD EXCEPTION TO EDGE DISTANCE REQUIREMENTS FOR HEAD MARKING, ADD DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982, UPDATE THREAD SPECIFICATION TO AS8879, UPDATE SURFACE FINISH REQUIREMENTS, ADD AS3062 AND DELETE NOTE ON FILLET FOR INCOMPLETE THREAD REQUIREMENTS, ADD REQUIREMENT FOR SURFACE TEXTURE SYMBOLS, ADD MIN. BEARING FACE DIAMETER, ADD DATUM REQUIREMENTS FOR -.04 THRU -.18 LENGTHS (NEW NOTE 1), AND UPDATE FORMATS, TABLE AND NOTES

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9734(ASG), NOTICE 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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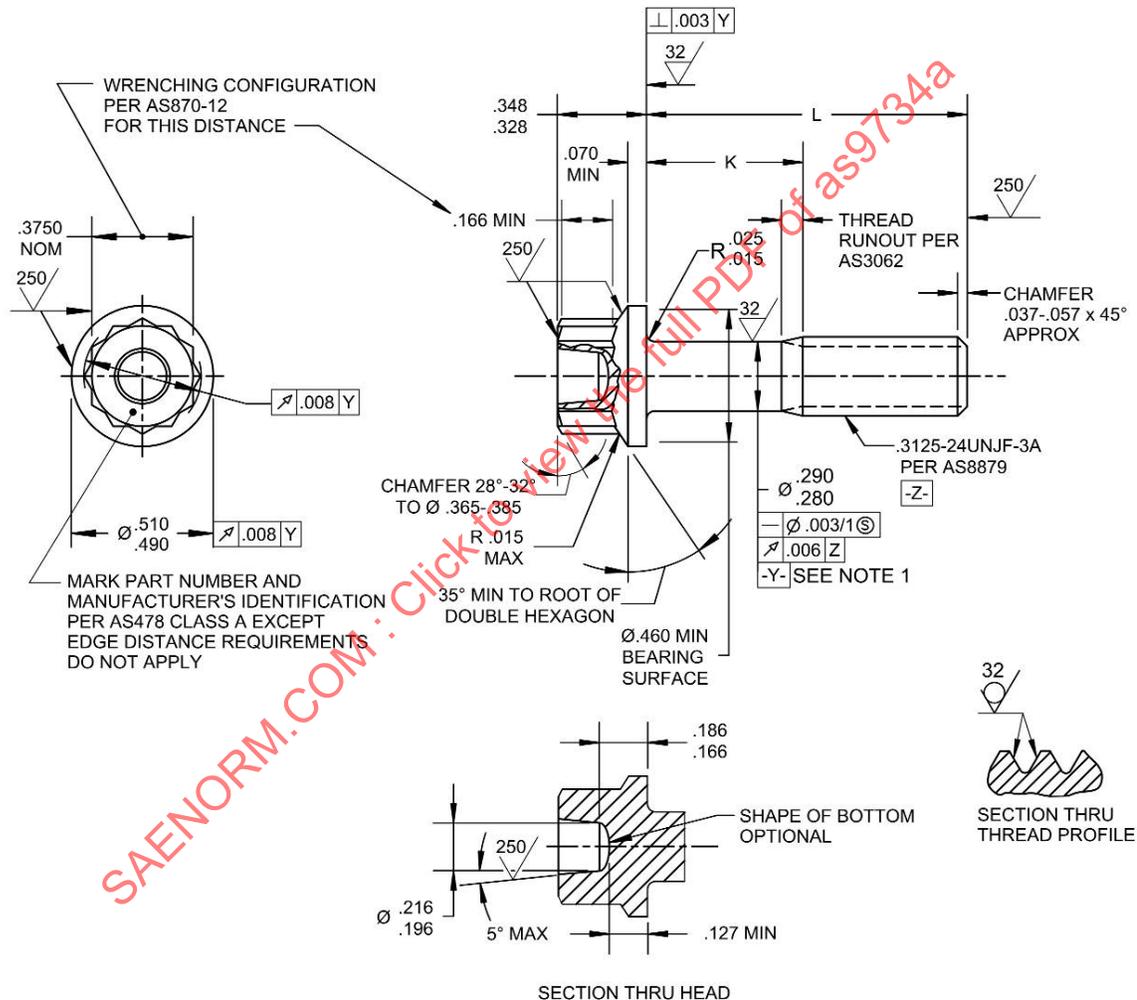
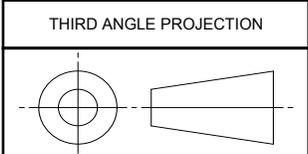


FIGURE 1 - BOLT

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CUSTODIAN: SAE E-25

PROCUREMENT SPECIFICATION: AS7474

SAE Aerospace
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AEROSPACE STANDARD

(R) BOLT, MACHINE-DOUBLE HEXAGON, EXTENDED WASHER HEAD, PD SHANK, CRES AMS5643, .3125-24 UNJF-3A

SAE AS9734
SHEET 1 OF 3

REV. A

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ISSUED 1998-11 REAFFIRMED 2005-05 REVISED 2012-03

TABLE 1 – PART NUMBERS AND DIMENSIONS

PART NO.	L	K	APPROX. MASS LB/100	PART NO.	L	K	APPROX. MASS LB/100
MS9734-04	.490-.510	.088-.108	2.18	MS9734-34	2.865-2.885	1.940-2.000	6.41
MS9734-05	.552-.572	.088-.108	2.29	MS9734-35	2.990-3.010	2.065-2.125	6.63
MS9734-06	.615-.635	.088-.108	2.40	MS9734-36	3.115-3.135	2.190-2.250	6.86
MS9734-07	.678-.698	.088-.108	2.51	MS9734-37	3.240-3.260	2.315-2.375	7.08
MS9734-08	.740-.760	.088-.108	2.62	MS9734-38	3.365-3.385	2.440-2.500	7.30
MS9734-09	.802-.822	.088-.108	2.73	MS9734-39	3.490-3.510	2.565-2.625	7.52
MS9734-10	.865-.885	.088-.108	2.84	MS9734-40	3.615-3.635	2.690-2.750	7.75
MS9734-11	.928-.948	.088-.108	2.95	MS9734-41	3.740-3.760	2.815-2.875	7.97
MS9734-12	.990-1.010	.088-.125	3.07	MS9734-42	3.865-3.885	2.940-3.000	8.19
MS9734-13	1.052-1.072	.128-.188	3.18	MS9734-43	3.990-4.010	3.065-3.125	8.42
MS9734-14	1.115-1.135	.190-.250	3.29	MS9734-44	4.115-4.135	3.190-3.250	8.64
MS9734-15	1.178-1.198	.252-.312	3.40	MS9734-45	4.240-4.260	3.315-3.375	8.86
MS9734-16	1.240-1.260	.315-.375	3.51	MS9734-46	4.365-4.385	3.440-3.500	9.09
MS9734-17	1.302-1.322	.378-.438	3.62	MS9734-47	4.490-4.510	3.565-3.625	9.31
MS9734-18	1.365-1.385	.440-.500	3.73	MS9734-48	4.615-4.635	3.690-3.750	9.53
MS9734-19	1.428-1.448	.502-.562	3.85	MS9734-49	4.740-4.760	3.815-3.875	9.76
MS9734-20	1.490-1.510	.565-.625	3.96	MS9734-50	4.865-4.885	3.940-4.000	9.98
MS9734-21	1.552-1.572	.628-.688	4.07	MS9734-51	4.990-5.010	4.065-4.125	10.20
MS9734-22	1.615-1.635	.690-.750	4.18	MS9734-52	5.115-5.135	4.190-4.250	10.42
MS9734-23	1.678-1.698	.752-.812	4.29	MS9734-53	5.240-5.260	4.315-4.375	10.65
MS9734-24	1.740-1.760	.815-.875	4.40	MS9734-54	5.365-5.385	4.440-4.500	10.86
MS9734-25	1.802-1.822	.877-.937	4.51	MS9734-55	5.490-5.510	4.565-4.625	11.08
MS9734-26	1.865-1.885	.940-1.000	4.63	MS9734-56	5.615-5.635	4.690-4.750	11.31
MS9734-27	1.990-2.010	1.065-1.125	4.85	MS9734-57	5.740-5.760	4.815-4.875	11.53
MS9734-28	2.115-2.135	1.190-1.250	5.07	MS9734-58	5.865-5.885	4.940-5.000	11.75
MS9734-29	2.240-2.260	1.315-1.375	5.30	MS9734-59	5.990-6.010	5.065-5.125	11.98
MS9734-30	2.365-2.385	1.440-1.500	5.52				
MS9734-31	2.490-2.510	1.565-1.625	5.74				
MS9734-32	2.615-2.635	1.690-1.750	5.96				
MS9734-33	2.740-2.760	1.815-1.875	6.19				

NOTES:

- FOR PART NUMBERS MS9734-04 THRU MS9734-18 THE THREAD PD (DATUM -Z-) SHALL REPLACE DATUM -Y-
- MATERIAL: CORROSION RESISTANT STEEL AMS5643 (UNS S17400)
- PROCUREMENT SPECIFICATION: AS7474.
- HARDNESS: ROCKWELL C32-38.
- FLUORESCENT PENETRANT INSPECTION PER ASTM E 1417 TYPE 1 SENSITIVITY LEVEL 2 MIN.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICRINCHES Ra.