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AS9709™

RATIONALE

NEW PART STANDARD TO REPLACE MS9709.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9709A. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL'S) 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.

FEDERAL SUPPLY CLASS
5306

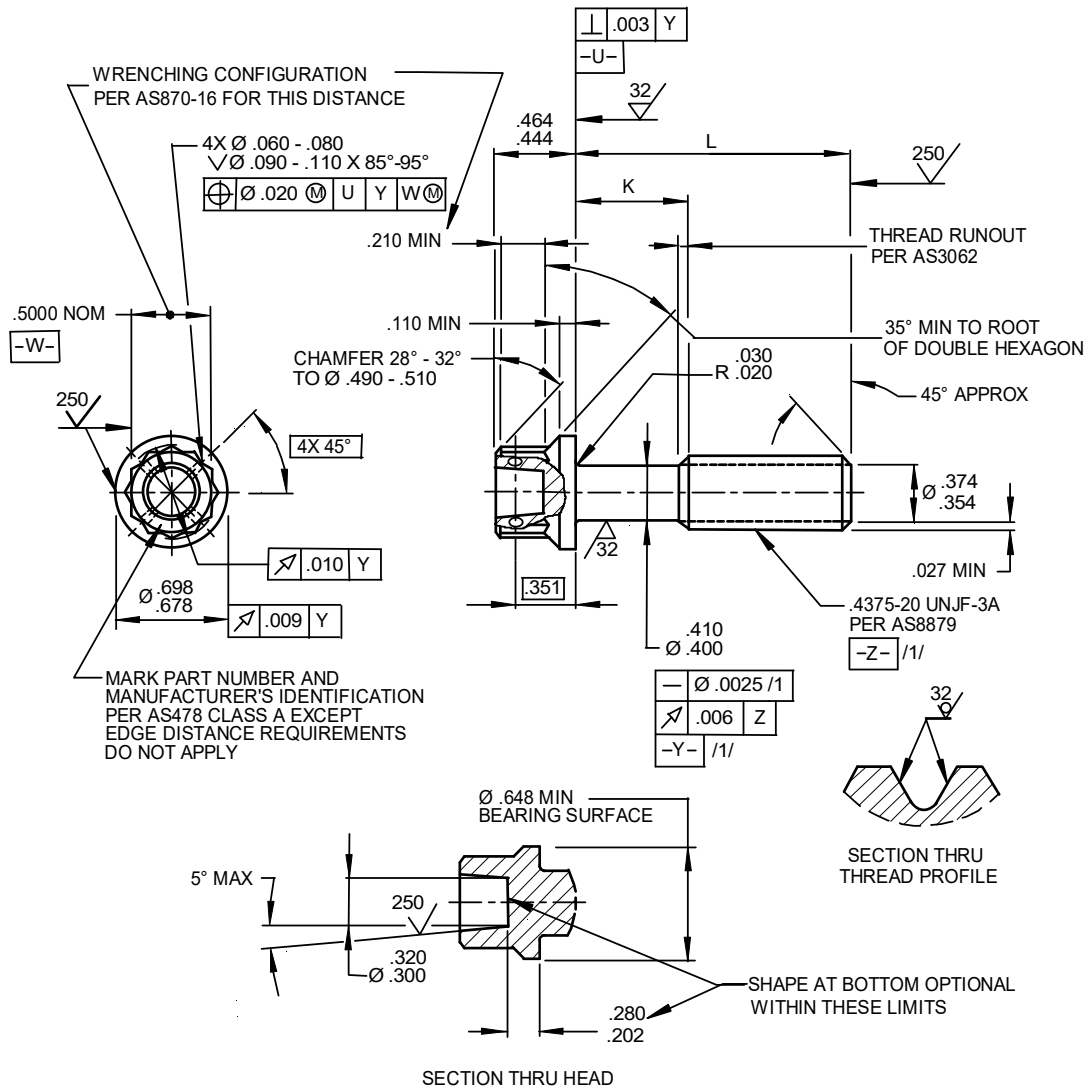
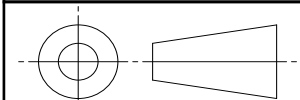


FIGURE 1 - BOLT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS9709/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7471 /4/



AEROSPACE STANDARD

SCREW, MACHINE - DOUBLE HEXAGON EXTENDED
WASHER HEAD, DRILLED, NICKEL ALLOY
(UNS N07001), .4375-20 UNJF-3A

AS9709™
SHEET 1 OF 3

Documents

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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
MS9709-04	.678- .698	.105- .125	5.46	MS9709-31	2.865-2.885	1.690-1.750	13.80
MS9709-05	.740- .760	.105- .125	5.70	MS9709-32	2.990-3.010	1.815-1.875	14.28
MS9709-06	.802- .822	.105- .125	5.93	MS9709-33	3.115-3.135	1.940-2.000	14.75
MS9709-07	.865- .885	.105- .125	6.17	MS9709-34	3.240-3.260	2.065-2.125	15.23
MS9709-08	.928- .948	.105- .125	6.41	MS9709-35	3.365-3.385	2.190-2.250	15.71
MS9709-09	.990-1.010	.105- .125	6.65	MS9709-36	3.490-3.510	2.315-2.375	16.18
MS9709-10	1.052-1.072	.105- .125	6.89	MS9709-37	3.615-3.635	2.440-2.500	16.66
MS9709-11	1.115-1.135	.105- .125	7.13	MS9709-38	3.740-3.760	2.565-2.625	17.14
MS9709-12	1.178-1.198	.105- .125	7.37	MS9709-39	3.865-3.885	2.690-2.750	17.61
MS9709-13	1.240-1.260	.105- .125	7.60	MS9709-40	3.990-4.010	2.815-2.875	18.09
MS9709-14	1.302-1.322	.128- .188	7.84	MS9709-41	4.115-4.135	2.940-3.000	18.57
MS9709-15	1.365-1.385	.190- .250	8.08	MS9709-42	4.240-4.260	3.065-3.125	19.04
MS9709-16	1.428-1.448	.252- .312	8.32	MS9709-43	4.365-4.385	3.190-3.250	19.52
MS9709-17	1.490-1.510	.315- .375	8.56	MS9709-44	4.490-5.010	3.315-3.375	19.99
MS9709-18	1.552-1.572	.378- .438	8.79	MS9709-45	4.615-4.635	3.440-3.500	20.47
MS9709-19	1.615-1.635	.440- .500	9.03	MS9709-46	4.740-4.760	3.565-3.625	20.95
MS9709-20	1.678-1.698	.502- .562	9.27	MS9709-47	4.865-4.885	3.690-3.750	21.42
MS9709-21	1.740-1.760	.565- .625	9.51	MS9709-48	4.990-5.010	3.815-3.875	21.90
MS9709-22	1.802-1.822	.627- .687	9.75	MS9709-49	5.115-5.135	3.940-4.000	22.38
MS9709-23	1.865-1.885	.690- .750	9.99	MS9709-50	5.240-5.260	4.065-4.125	22.85
MS9709-24	1.990-2.010	.815- .875	10.46	MS9709-51	5.365-5.385	4.190-4.250	23.33
MS9709-25	2.115-2.135	.940-1.000	10.94	MS9709-52	5.490-5.010	4.315-4.375	23.81
MS9709-26	2.240-2.260	1.065-1.125	11.42	MS9709-53	5.615-5.635	4.440-4.500	24.28
MS9709-27	2.365-2.385	1.190-1.250	11.89	MS9709-54	5.740-5.760	4.565-4.625	24.76
MS9709-28	2.490-2.510	1.315-1.375	12.37	MS9709-55	5.865-5.885	4.690-4.750	25.24
MS9709-29	2.615-2.635	1.440-1.500	12.85	MS9709-56	5.990-6.010	4.815-4.875	25.71
MS9709-30	2.740-2.760	1.565-1.625	13.32				

NOTES:

- /1/ FOR PARTS NUMBERS MS9709-04 THRU MS9709-22, DATUM **Z** SHALL REPLACE DATUM **Y**.
2. MATERIAL: AMS5708 (COMPOSITION SIMILAR TO UNS N07001).
3. PROCUREMENT SPECIFICATION: AS7471.
- /4/ HEAD TO SHANK FILLET SHOULD NOT BE COLD ROLLED FOR DASH NUMBERS-14 AND SMALLER.
5. FLUORESCENT PENETRANT INSPECT PER ASTM E1417/E1417M, TYPE 1, SENSITIVITY LEVEL 2.
6. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
7. BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
8. DIMENSIONS ARE IN INCHES.
9. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1983.
10. DO NOT USE UNASSIGNED PART NUMBERS.
11. UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.

	AEROSPACE STANDARD	AS9709™ SHEET 2 OF 3	
	SCREW, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, DRILLED, NICKEL ALLOY (UNS N07001), .4375-20 UNJF-3A		

