

REV.
A

AS9297

FEDERAL SUPPLY CLASS
5306

RATIONALE

UPDATE STANDARD, INTRODUCE SYMBOLS FOR GEOMETRIC FORM AND POSITION CONTROLS PER ANSI Y14.5M AND REPLACE MIL-S-8879 WITH AS8879.

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9297, 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.

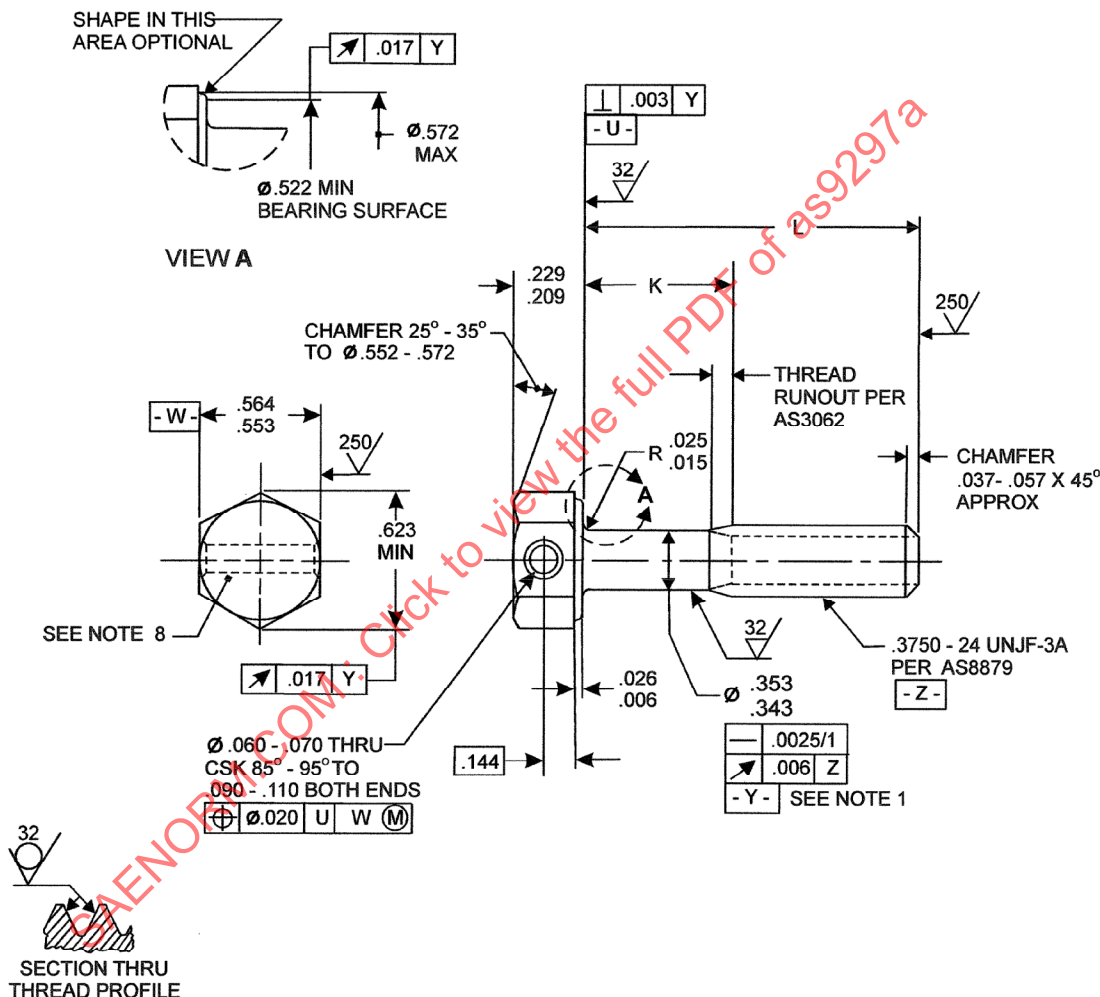
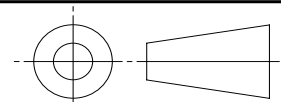


FIGURE 1 - BOLT

THIRD ANGLE PROJECTION



CUSTODIAN: SAE E-25

SAE Aerospace
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AEROSPACE STANDARD

(R) BOLT, MACHINE - HEXAGON HEAD, DRILLED
1 HOLE, PD SHANK, BLACK OXIDE, STEEL
UNS G87400, 125 KSI MIN, .3750-24 UNJF-3A

AS9297
SHEET 1 OF 3

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ISSUED 1999-12 REAFFIRMED 2004-07 REVISED 2006-07

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	L	K	APPROX. MASS LB/100	PART NUMBER	L	K	APPROX. MASS LB/100
MS9297-04	.615 - .635	.088 - .108	3.33	MS9297-31	2.865 - 2.885	1.815 - 1.875	9.39
MS9297-05	.678 - .698	.088 - .108	3.50	MS9297-32	2.990 - 3.010	1.940 - 2.000	9.72
MS9297-06	.740 - .760	.088 - .108	3.67	MS9297-33	3.115 - 3.135	2.065 - 2.125	10.06
MS9297-07	.802 - .822	.088 - .108	3.84	MS9297-34	3.240 - 3.260	2.190 - 2.250	10.39
MS9297-08	.865 - .885	.088 - .108	4.01	MS9297-35	3.365 - 3.385	2.315 - 2.375	10.73
MS9297-09	.928 - .948	.088 - .108	4.18	MS9297-36	3.490 - 3.510	2.440 - 2.500	11.07
MS9297-10	.990 - 1.010	.088 - .108	4.35	MS9297-37	3.615 - 3.635	2.565 - 2.625	11.40
MS9297-11	1.052 - 1.072	.088 - .108	4.51	MS9297-38	3.740 - 3.760	2.690 - 2.750	11.74
MS9297-12	1.115 - 1.135	.088 - .125	4.68	MS9297-39	3.865 - 3.885	2.815 - 2.875	12.07
MS9297-13	1.178 - 1.198	.128 - .188	4.85	MS9297-40	3.990 - 4.010	2.940 - 3.000	12.41
MS9297-14	1.240 - 1.260	.190 - .250	5.02	MS9297-41	4.115 - 4.135	3.065 - 3.125	12.75
MS9297-15	1.302 - 1.322	.252 - .312	5.19	MS9297-42	4.240 - 4.260	3.190 - 3.250	13.08
MS9297-16	1.365 - 1.385	.315 - .375	5.35	MS9297-43	4.365 - 4.385	3.315 - 3.375	13.42
MS9297-17	1.428 - 1.448	.378 - .438	5.52	MS9297-44	4.490 - 4.510	3.440 - 3.500	13.75
MS9297-18	1.490 - 1.510	.440 - .500	5.69	MS9297-45	4.615 - 4.635	3.565 - 3.625	14.09
MS9297-19	1.552 - 1.572	.502 - .562	5.86	MS9297-46	4.740 - 4.760	3.690 - 3.750	14.43
MS9297-20	1.615 - 1.635	.565 - .625	6.03	MS9297-47	4.865 - 4.885	3.815 - 3.875	14.76
MS9297-21	1.678 - 1.698	.628 - .688	6.19	MS9297-48	4.990 - 5.010	3.940 - 4.000	15.10
MS9297-22	1.740 - 1.760	.690 - .750	6.36	MS9297-49	5.115 - 5.135	4.065 - 4.125	15.43
MS9297-23	1.865 - 1.885	.815 - .875	6.70	MS9297-50	5.240 - 5.260	4.190 - 4.250	15.77
MS9297-24	1.990 - 2.010	.940 - 1.000	7.03	MS9297-51	5.365 - 5.385	4.315 - 4.375	16.11
MS9297-25	2.115 - 2.135	1.065 - 1.125	7.37	MS9297-52	5.490 - 5.510	4.440 - 4.500	16.44
MS9297-26	2.240 - 2.260	1.190 - 1.250	7.71	MS9297-53	5.615 - 5.635	4.565 - 4.625	16.78
MS9297-27	2.365 - 2.385	1.315 - 1.375	8.04	MS9297-54	5.740 - 5.760	4.690 - 4.750	17.11
MS9297-28	2.490 - 2.510	1.440 - 1.500	8.38	MS9297-55	5.865 - 5.885	4.815 - 4.875	17.45
MS9297-29	2.615 - 2.635	1.565 - 1.625	8.71	MS9297-56	5.990 - 6.010	4.940 - 5.000	17.79
MS9297-30	2.740 - 2.760	1.690 - 1.750	9.05				