RATIONALE

FEDERAL SUPPLY CLASS
5306

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9678B, AMENDMENT 1, 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.

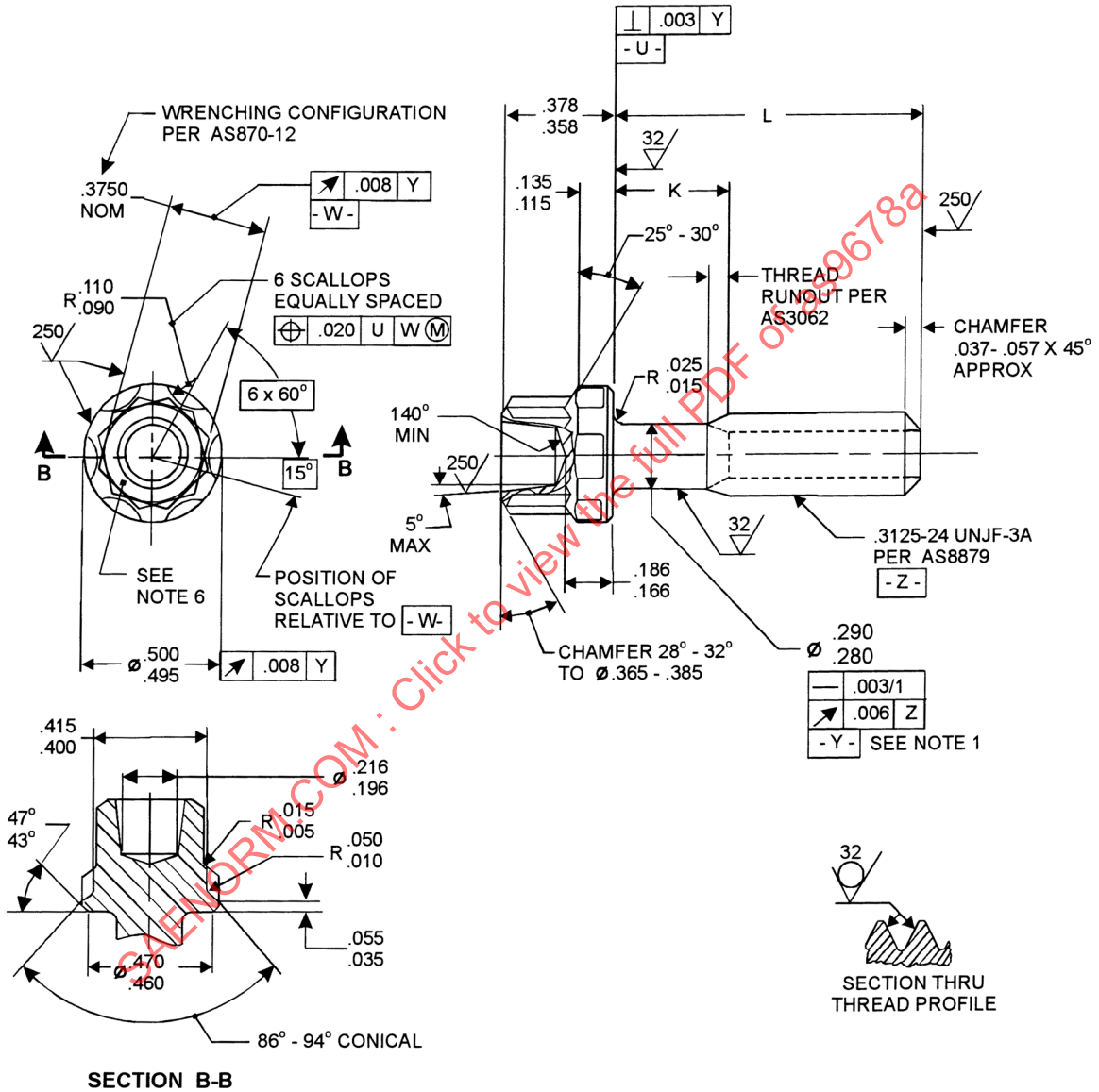
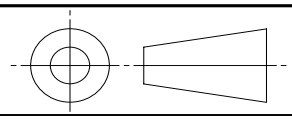


FIGURE 1 - BOLT

THIRD ANGLE PROJECTION



ISSUED 2000-08 REVISED 2003-09 REAFFIRMED 2007-06

CUSTODIAN: SAE E-25

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) BOLT, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, PD SHANK, CUP WASHER LOCKED, CRES, UNS S66286, 130 KSI MIN, .3125-24 UNJF-3A

AS9678
SHEET 1 OF 3

REV. A

TABLE 1 - PART NUMBERS AND DIMENSIONS.

PART NUMBER	L	K	APPROX. MASS LB/100
MS9678-03	.428 - .448	.088 - .108	1.94
MS9678-04	.490 - .510	.088 - .108	2.05
MS9678-05	.562 - .572	.088 - .108	2.16
MS9678-06	.615 - .635	.088 - .108	2.27
MS9678-07	.678 - .698	.088 - .108	2.39
MS9678-08	.740 - .760	.088 - .108	2.51
MS9678-09	.802 - .822	.088 - .108	2.62
MS9678-10	.865 - .885	.088 - .108	2.73
MS9678-11	.928 - .948	.088 - .108	2.85
MS9678-12	.990 - 1.010	.088 - .125	2.96
MS9678-13	1.052 - 1.072	.128 - .188	3.07
MS9678-14	1.115 - 1.135	.190 - .250	3.19
MS9678-15	1.178 - 1.198	.252 - .312	3.30
MS9678-16	1.240 - 1.260	.315- .375	3.42
MS9678-17	1.302 - 1.322	.378 - .438	3.53
MS9678-18	1.365 - 1.385	.440 - .500	3.65
MS9678-19	1.428 - 1.448	.502 - .562	3.76
MS9678-20	1.490 - 1.510	.565 - .625	3.88
MS9678-21	1.552 - 1.572	.628 - .688	3.99
MS9678-22	1.615 - 1.635	.690 - .750	4.11
MS9678-23	1.678 - 1.698	.752 - .812	4.23
MS9678-24	1.740 - 1.760	.815 - .875	4.35
MS9678-25	1.865 - 1.885	.940 - 1.000	4.57
MS9678-26	1.990 - 2.010	1.065 - 1.125	4.79
MS9678-27	2.115 - 2.135	1.190 - 1.250	5.02
MS9678-28	2.240 - 2.260	1.315 - 1.375	5.26
MS9678-29	2.365 - 2.385	1.440 - 1.500	5.48
MS9678-30	2.490 - 2.510	1.565 - 1.625	5.70
MS9678-31	2.615 - 2.635	1.690 - 1.750	5.93

PART NUMBER	L	K	APPROX. MASS LB/100
MS9678-32	2.740 - 2.760	1.815 - 1.875	6.16
MS9678-33	2.865 - 2.885	1.940 - 2.000	6.40
MS9678-34	2.990 - 3.010	2.065 - 2.125	6.62
MS9678-35	3.115 - 3.135	2.190 - 2.250	6.84
MS9678-36	3.240 - 3.260	2.315 - 2.375	7.07
MS9678-37	3.365 - 3.385	2.440 - 2.500	7.32
MS9678-38	3.490 - 3.510	2.565 - 2.625	7.55
MS9678-39	3.615 - 3.635	2.690 - 2.750	7.78
MS9678-40	3.740 - 3.760	2.815 - 2.875	8.00
MS9678-41	3.865 - 3.885	2.940 - 3.000	8.22
MS9678-42	3.990 - 4.010	3.065 - 3.125	8.45
MS9678-43	4.115 - 4.135	3.190 - 3.250	8.68
MS9678-44	4.240 - 4.260	3.315 - 3.375	8.91
MS9678-45	4.365 - 4.385	3.440 - 3.500	9.13
MS9678-46	4.490 - 4.510	3.565 - 3.625	9.35
MS9678-47	4.615 - 4.635	3.690 - 3.750	9.57
MS9678-48	4.740 - 4.760	3.815 - 3.875	9.79
MS9678-49	4.865 - 4.885	3.940 - 4.000	10.00
MS9678-50	4.990 - 5.010	4.065 - 4.125	10.22
MS9678-51	5.115 - 5.135	4.190 - 4.250	10.45
MS9678-52	5.240 - 5.260	4.315 - 4.375	10.68
MS9678-53	5.365 - 5.385	4.440 - 4.500	10.91
MS9678-54	5.490 - 5.510	4.565 - 4.625	11.15
MS9678-55	5.615 - 5.635	4.690 - 4.750	11.38
MS9678-56	5.740 - 5.760	4.815 - 4.875	11.61
MS9678-57	5.865 - 5.885	4.940 - 5.000	11.83
MS9678-58	5.990 - 6.010	5.065 - 5.125	12.05