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**REV.
B**

AS9457

FEDERAL SUPPLY CLASS
5306

RATIONALE

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

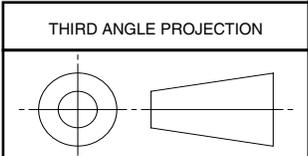
THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9457A, AMENDMENT 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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.

WARNING

THIS DOCUMENT INCLUDES CADMIUM AS A PLATING MATERIAL. THE USE OF CADMIUM HAS BEEN RESTRICTED AND/OR BANNED FOR USE IN MANY COUNTRIES DUE TO ENVIRONMENTAL AND HEALTH CONCERNS. THE USER SHOULD CONSULT WITH LOCAL OFFICIALS ON THE ENVIRONMENTAL AND HEALTH REGULATIONS REGARDING ITS USE.

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CUSTODIAN: SAE E-25

ISSUED 1998-08 REVISED 2003-11 REAFFIRMED 2007-06

<p>SAE Aerospace An SAE International Group</p>	<p>AEROSPACE STANDARD</p>	<p>AS9457 SHEET 1 OF 4</p>	<p>REV. B</p>
	<p>BOLT, MACHINE - STEEL, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, UNS K14675, 195 KSI MIN, .5625-18 UNJF-3A</p>		

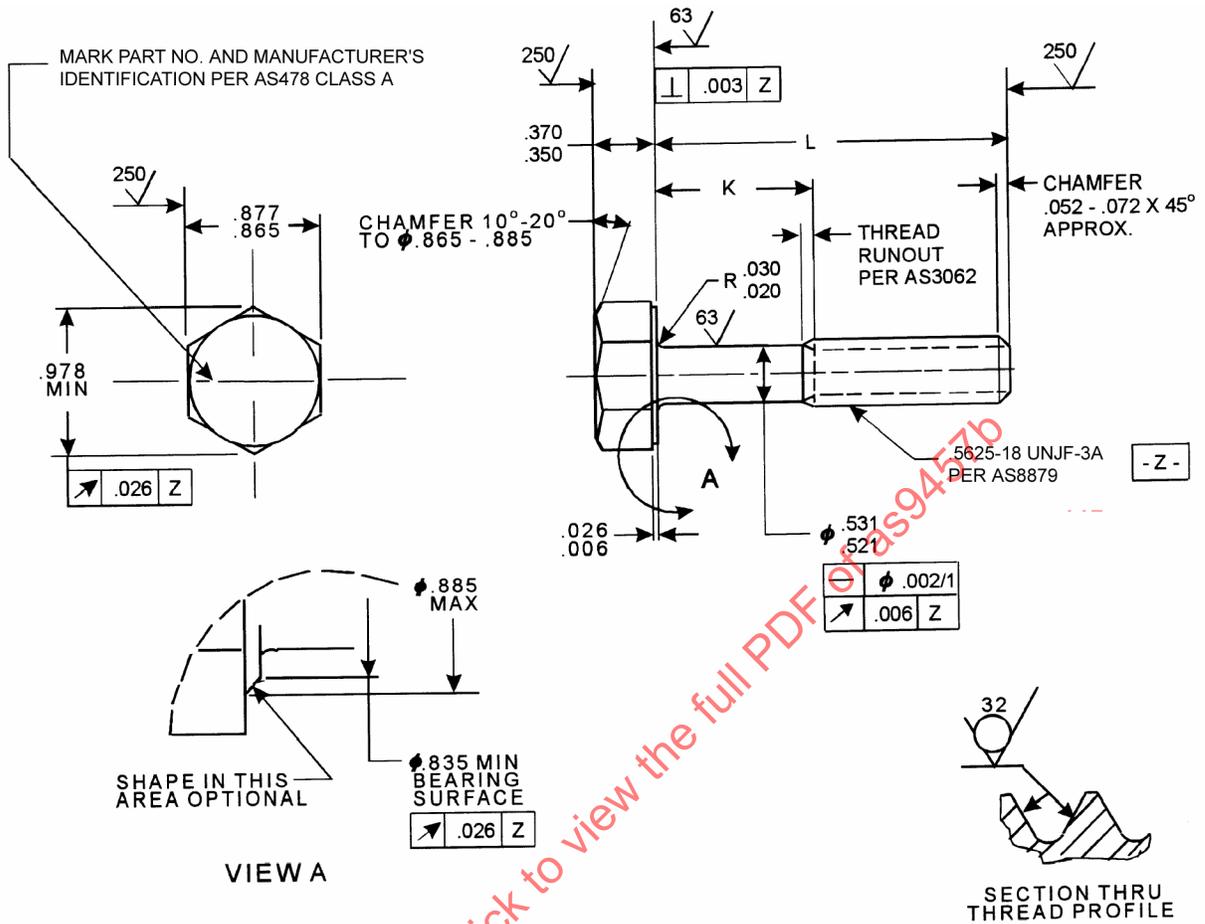


FIGURE 1 - BOLT

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NO.	L	K	APPROX. MASS LB/100	PART NO.	L	K	APPROX. MASS LB/100
MS9457-04	.865 - .885	.114 - .134	10.18	MS9457-31	3.240 - 3.260	1.815 - 1.875	25.73
MS9457-05	.928 - .948	.114 - .134	10.56	MS9457-32	3.365 - 3.385	1.940 - 2.000	26.49
MS9457-06	.990 - 1.010	.114 - .134	11.94	MS9457-33	3.490 - 3.510	2.065 - 2.125	27.26
MS9457-07	1.052 - 1.072	.114 - .134	12.32	MS9457-34	3.615 - 3.635	2.190 - 2.250	28.02
MS9457-08	1.115 - 1.135	.114 - .134	12.70	MS9457-35	3.740 - 3.760	2.315 - 2.375	28.79
MS9457-09	1.178 - 1.198	.114 - .134	13.08	MS9457-36	3.865 - 3.885	2.440 - 2.500	29.56
MS9457-10	1.240 - 1.260	.114 - .134	13.47	MS9457-37	3.990 - 4.010	2.565 - 2.625	30.32
MS9457-11	1.302 - 1.322	.114 - .134	13.85	MS9457-38	4.115 - 4.135	2.690 - 2.750	31.09
MS9457-12	1.365 - 1.385	.114 - .134	14.23	MS9457-39	4.240 - 4.260	2.815 - 2.875	31.86
MS9457-13	1.428 - 1.448	.114 - .134	14.62	MS9457-40	4.365 - 4.385	2.940 - 3.000	32.62
MS9457-14	1.490 - 1.510	.114 - .134	15.00	MS9457-41	4.490 - 4.510	3.065 - 3.125	33.39
MS9457-15	1.552 - 1.572	.128 - .188	15.38	MS9457-42	4.615 - 4.635	3.190 - 3.250	34.15
MS9457-16	1.615 - 1.635	.190 - .250	15.77	MS9457-43	4.740 - 4.760	3.315 - 3.375	34.92
MS9457-17	1.678 - 1.698	.252 - .312	16.15	MS9457-44	4.865 - 4.885	3.440 - 3.500	35.69
MS9457-18	1.740 - 1.760	.315 - .375	16.53	MS9457-45	4.990 - 5.010	3.565 - 3.625	36.45
MS9457-19	1.802 - 1.822	.378 - .438	16.91	MS9457-46	5.115 - 5.135	3.690 - 3.750	37.22
MS9457-20	1.865 - 1.885	.440 - .500	17.30	MS9457-47	5.240 - 5.260	3.815 - 3.875	37.99
MS9457-21	1.990 - 2.010	.565 - .625	18.06	MS9457-48	5.365 - 5.385	3.940 - 4.000	38.75
MS9457-22	2.115 - 2.135	.690 - .750	18.83	MS9457-49	5.490 - 5.510	4.065 - 4.125	39.52
MS9457-23	2.240 - 2.260	.815 - .875	19.06	MS9457-50	5.615 - 5.635	4.190 - 4.250	40.28
MS9457-24	2.365 - 2.385	.940 - 1.000	20.36	MS9457-51	5.740 - 5.760	4.315 - 4.375	41.05
MS9457-25	2.490 - 2.510	1.065 - 1.125	21.13	MS9457-52	5.865 - 5.885	4.440 - 4.500	41.82
MS9457-26	2.615 - 2.635	1.190 - 1.250	21.90	MS9457-53	5.990 - 6.010	4.565 - 4.625	42.58
MS9457-27	2.740 - 2.760	1.315 - 1.375	22.66				
MS9457-28	2.865 - 2.885	1.440 - 1.500	23.43				
MS9457-29	2.990 - 3.010	1.565 - 1.625	24.19				
MS9457-30	3.115 - 3.135	1.690 - 1.750	24.96				

NOTES:

- MATERIAL: LOW ALLOY STEEL AMS 6304 (UNS K14675).
- PROCUREMENT SPECIFICATION: AS7455.
- HARDNESS: 42-46 HRC.
- FINISH: DIFFUSED NICKEL-CADMIUM PLATE AMS 2416. DIMENSIONS ARE AFTER PLATING. CONTACT POINTS PERMISSIBLE. PD MAY BE REDUCED .0012 MAXIMUM BEFORE PLATING.
- MAGNETIC PARTICLE INSPECTION PER ASTM E 1444 BEFORE PLATING.
- INCOMPLETE THREADS NOT TO ENTER FILLET.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
- BREAK SHARP EDGES .003-.015, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).