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**REV.  
B**

**SAE AS9442**

FEDERAL SUPPLY CLASS  
5306

**RATIONALE**

CORRECT TYPOS IN FIGURE 1; /7/ WAS "SEE NOTE 6" AND IN SECTION B DIMENSION ".085-.105" WAS ".185-.205". UPDATE CADMIUM NOTICE AND UPDATE STANDARD TO CURRENT SAE FORMAT REQUIREMENTS.

**NOTICE**

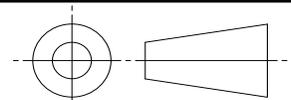
THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9442, AMENDMENT 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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.

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THIRD ANGLE PROJECTION



CUSTODIAN: SAE E-25

PROCUREMENT SPECIFICATION: /4/

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

BOLT, MACHINE - HEXAGON, DRILLED, 6 HOLES, PD SHANK, NICKEL CADMIUM PLATED, STEEL  
UNS K14675, 195 KSI MIN, .3125-24 UNJF-3A

**SAE AS9442**  
SHEET 1 OF 4

**REV.  
B**

ISSUED 2000-08 REVISED 2008-10

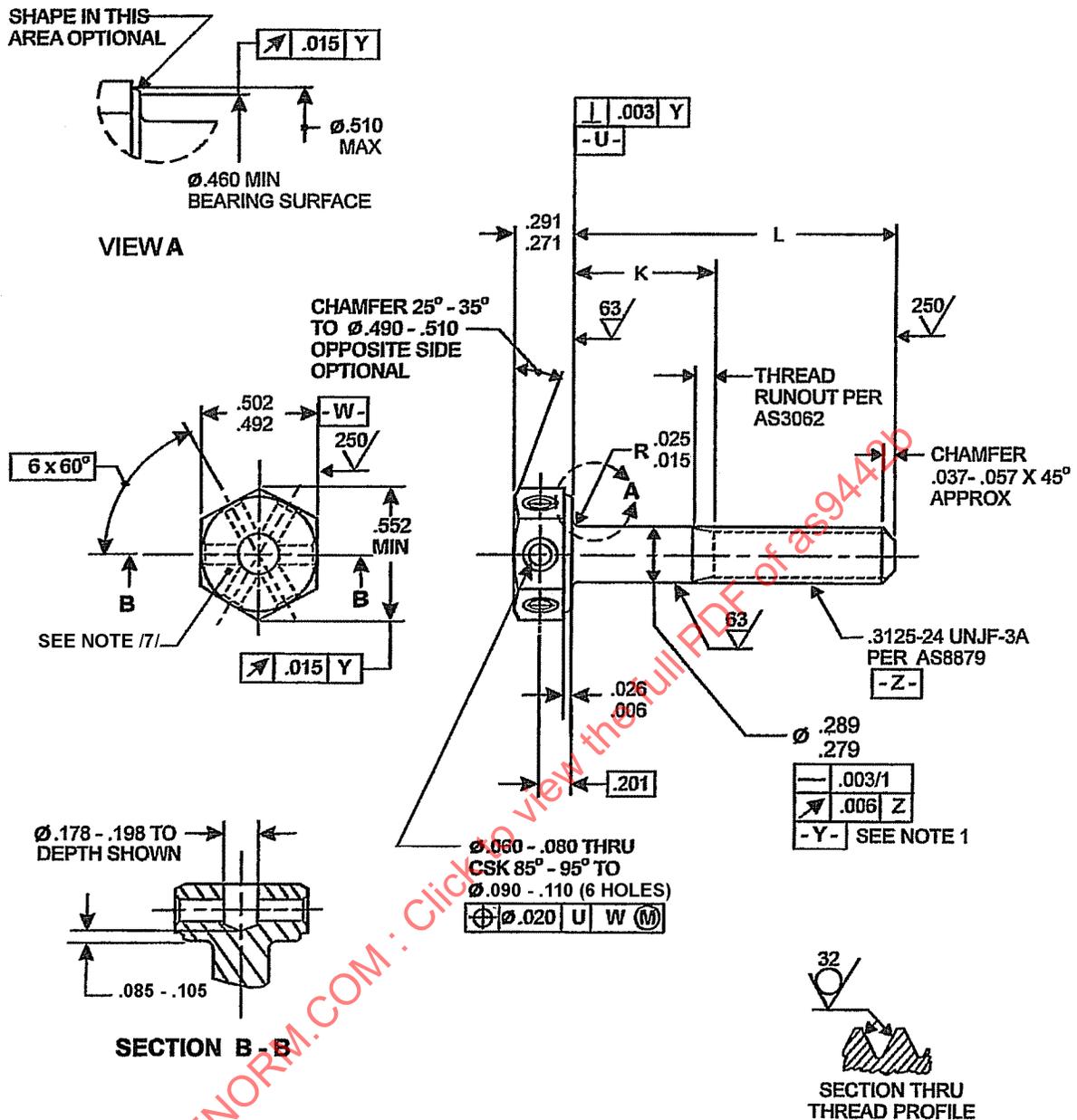


FIGURE 1 - BOLT

<p><b>SAE Aerospace</b> An SAE International Group</p>	<p><b>AEROSPACE STANDARD</b></p>	<p><b>SAE AS9442</b></p> <p>SHEET 2 OF 4</p>	<p><b>REV. B</b></p>
	<p>BOLT, MACHINE - HEXAGON, DRILLED, 6 HOLES, PD SHANK, NICKEL CADMIUM PLATED, STEEL UNS K14675, 195 KSI MIN, .3125-24 UNJF-3A</p>		

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	L	K	APPROX. MASS LB/100	PART NUMBER	L	K	APPROX. MASS LB/100
MS9442-04	.490-.510	.088-.108	2.36	MS9442-32	2.740-2.760	1.815-1.875	6.42
MS9442-05	.552-.572	.088-.108	2.48	MS9442-33	2.865-2.885	1.940-2.000	6.65
MS9442-06	.615-.635	.088-.108	2.59	MS9442-34	2.990-3.010	2.065-2.125	6.88
MS9442-07	.678-.698	.088-.108	2.70	MS9442-35	3.115-3.135	2.190-2.250	7.10
MS9442-08	.740-.760	.088-.108	2.81	MS9442-36	3.240-3.260	2.315-2.375	7.33
MS9442-09	.803-.822	.088-.108	2.93	MS9442-37	3.365-3.385	2.440-2.500	7.55
MS9442-10	.865-.885	.088-.108	3.04	MS9442-38	3.490-3.510	2.565-2.625	7.78
MS9442-11	.928-.948	.088-.108	3.15	MS9442-39	3.615-3.635	2.690-2.750	8.01
MS9442-12	.990-1.010	.088-.125	3.27	MS9442-40	3.740-3.760	2.815-2.875	8.23
MS9442-13	1.052-1.072	.128-.188	3.38	MS9442-41	3.865-3.885	2.940-3.000	8.46
MS9442-14	1.115-1.135	.190-.250	3.49	MS9442-42	3.990-4.010	3.065-3.125	8.68
MS9442-15	1.178-1.198	.252-.312	3.60	MS9442-43	4.115-4.135	3.190-3.250	8.91
MS9442-16	1.240-1.260	.315-.375	3.72	MS9442-44	4.240-4.260	3.315-3.375	9.13
MS9442-17	1.302-1.322	.378-.438	3.83	MS9442-45	4.365-4.385	3.440-3.500	9.36
MS9442-18	1.365-1.385	.440-.500	3.94	MS9442-46	4.490-4.510	3.565-3.625	9.59
MS9442-19	1.428-1.448	.502-.562	4.06	MS9442-47	4.615-4.635	3.690-3.750	9.91
MS9442-20	1.490-1.510	.565-.625	4.17	MS9442-48	4.740-4.760	3.815-3.875	10.04
MS9442-21	1.552-1.572	.628-.688	4.28	MS9442-49	4.865-4.885	3.940-4.000	10.26
MS9442-22	1.615-1.635	.690-.750	4.39	MS9442-50	4.990-5.010	4.065-4.125	10.49
MS9442-23	1.678-1.698	.752-.812	4.51	MS9442-51	5.115-5.135	4.190-4.250	10.71
MS9442-24	1.740-1.760	.815-.875	4.62	MS9442-52	5.240-5.260	4.315-4.375	10.94
MS9442-25	1.865-1.885	.940-1.000	4.85	MS9442-53	5.365-5.385	4.440-4.500	11.17
MS9442-26	1.990-2.010	1.065-1.125	5.07	MS9442-54	5.490-5.510	4.565-4.625	11.39
MS9442-27	2.115-2.135	1.190-1.250	5.30	MS9442-55	5.615-5.635	4.690-4.750	11.62
MS9442-28	2.240-2.260	1.315-1.375	5.52	MS9442-56	5.740-5.760	4.815-4.875	11.84
MS9442-29	2.365-2.385	1.440-1.500	5.75	MS9442-57	5.865-5.885	4.940-5.000	12.07
MS9442-30	2.490-2.510	1.565-1.625	5.97	MS9442-58	5.990-6.010	5.065-5.125	12.29
MS9442-31	2.615-2.635	1.690-1.750	6.20				

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

- FOR PARTS NUMBERS MS9442-04 THRU MS9442-18 THE THREADED PD (DATUM -Z-) SHALL REPLACE DATUM -Y-.
- MATERIAL: LOW ALLOY STEEL PER AMS6304 (UNS K14675).
- FINISH: DIFFUSED NICKEL-CADMIUM PLATE PER AMS2416. DIMENSIONS ARE AFTER PLATING. CONTACT POINTS PERMISSIBLE. PD MAY BE REDUCED .0012 MAXIMUM BEFORE PLATING.
- PROCUREMENT SPECIFICATION: AS7455.
- MAGNETIC PARTICLE INSPECTION PER AS7455 BEFORE PLATING.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES RA.

 An SAE International Group	<b>AEROSPACE STANDARD</b>	<b>SAE AS9442</b> SHEET 3 OF 4	<b>REV.</b> <b>B</b>
	BOLT, MACHINE - HEXAGON, DRILLED, 6 HOLES, PD SHANK, NICKEL CADMIUM PLATED, STEEL UNS K14675, 195 KSI MIN, .3125-24 UNJF-3A		