

REV.
B

AS9521

FEDERAL SUPPLY CLASS
5306

RATIONALE

CADMIUM WARNING NOTE UPDATED, THREAD SPECIFICATION REVISED TO AS8879, AND GEOMETRIC CONTROLS FOR SHORT LENGTH BOLTS CLARIFIED TO AGREE WITH AS1132.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9521A. 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.

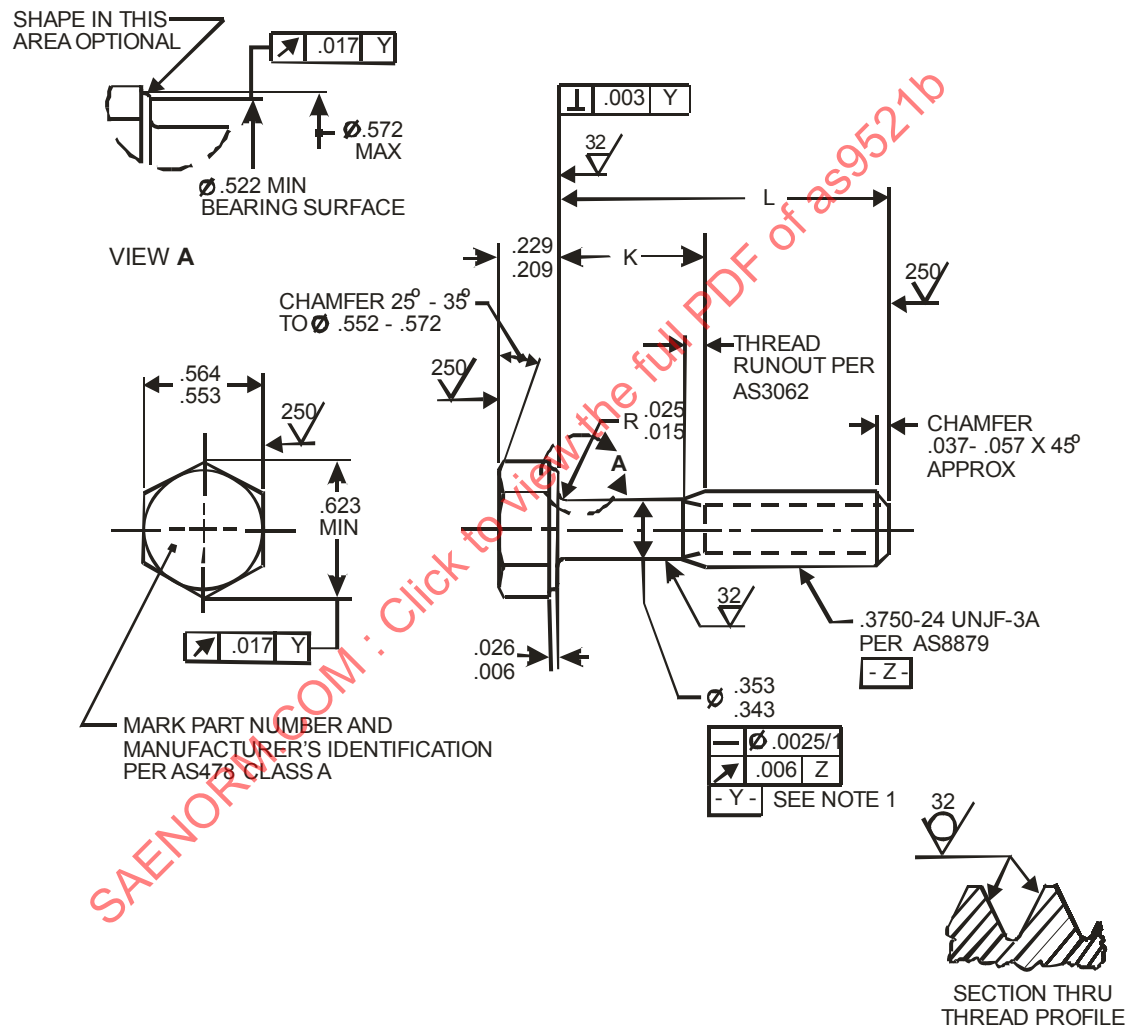


FIGURE 1 - BOLT

CUSTODIAN: SAE E-25

SAE Aerospace
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AEROSPACE STANDARD

BOLT, MACHINE - STEEL, CADMIUM PLATED,
HEXAGON HEAD, UNS G87400, 125 KSI MIN,
.3750-24 UNJF-3A

AS9521
SHEET 1 OF 3

**REV.
B**

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NO.	L	K	APPROX. MASS LB/100	PART NO.	L	K	APPROX. MASS LB/100
MS9521-04	.615- .635	.088- .108	3.25	MS9521-31	2.865-2.885	1.815-1.875	9.41
MS9521-05	.678- .698	.088- .108	3.52	MS9521-32	2.990-3.010	1.940-2.000	9.74
MS9521-06	.740- .760	.088- .108	3.69	MS9521-33	3.115-3.135	2.065-2.125	10.08
MS9521-07	.802- .822	.088- .108	3.86	MS9521-34	3.240-3.260	2.190-2.250	10.41
MS9521-08	.865- .885	.088- .108	4.03	MS9521-35	3.365-3.385	2.315-2.375	10.75
MS9521-09	.928- .948	.088- .108	4.20	MS9521-36	3.490-3.510	2.440-2.500	11.09
MS9521-10	.990-1.010	.088- .108	4.37	MS9521-37	3.615-3.635	2.565-2.625	11.42
MS9521-11	1.052-1.072	.088- .108	4.53	MS9521-38	3.740-3.760	2.690-2.750	11.76
MS9521-12	1.115-1.135	.088- .125	4.70	MS9521-39	3.865-3.885	2.815-2.875	12.09
MS9521-13	1.178-1.198	.128- .188	4.87	MS9521-40	3.990-4.010	2.940-3.000	12.43
MS9521-14	1.240-1.260	.190- .250	5.04	MS9521-41	4.115-4.135	3.065-3.125	12.77
MS9521-15	1.302-1.322	.252- .312	5.21	MS9521-42	4.240-4.260	3.190-3.250	13.10
MS9521-16	1.365-1.385	.315- .375	5.37	MS9521-43	4.365-3.385	3.315-3.375	13.44
MS9521-17	1.428-1.448	.378- .438	5.54	MS9521-44	4.490-4.510	3.440-3.500	13.77
MS9521-18	1.490-1.510	.440- .500	5.71	MS9521-45	4.615-4.635	3.565-3.625	14.11
MS9521-19	1.552-1.572	.502- .562	5.88	MS9521-46	4.740-4.760	3.690-3.750	14.45
MS9521-20	1.615-1.635	.565- .625	6.05	MS9521-47	4.865-4.885	3.815-3.875	14.78
MS9521-21	1.678-1.698	.628- .688	6.21	MS9521-48	4.990-5.010	3.940-4.000	15.12
MS9521-22	1.740-1.760	.690- .750	6.38	MS9521-49	5.115-5.135	4.065-4.125	15.45
MS9521-23	1.865-1.885	.815- .875	6.72	MS9521-50	5.240-5.260	4.190-4.250	15.79
MS9521-24	1.990-2.010	.940-1.000	7.05	MS9521-51	5.365-5.385	4.315-4.375	16.13
MS9521-25	2.115-2.135	1.065-1.125	7.39	MS9521-52	5.490-5.510	4.440-4.500	16.46
MS9521-26	2.240-2.260	1.190-1.250	7.73	MS9521-53	5.615-5.635	4.565-4.625	16.80
MS9521-27	2.365-2.385	1.315-1.375	8.06	MS9521-54	5.740-5.760	4.690-4.750	17.13
MS9521-28	2.490-2.510	1.440-1.500	8.40	MS9521-55	5.865-5.885	4.815-4.875	17.47
MS9521-29	2.615-2.635	1.565-1.625	8.73	MS9521-56	5.990-6.010	4.940-5.000	17.81
MS9521-30	2.740-2.760	1.690-1.750	9.07				

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 PART NUMBERS MS9521-04 THRU MS9521-21 THE THREAD PD (DATUM "Z") SHALL REPLACE DATUM "Y".
- MATERIAL: LOW ALLOY STEEL AMS 6322 (UNS G87400).
- PROCUREMENT SPECIFICATION: AS7452.
- HEAD TO SHANK FILLET RADIUS: FOR PART NUMBERS MS9521-15 AND LARGER, THE HEAD TO SHANK FILLET SHALL BE COLD ROLLED AFTER HEAT TREATMENT TO REMOVE ALL VISUAL EVIDENCE OF GRINDING OR TOOL MARKS.
- FINISH: CADMIUM PLATE PER AMS 2400. DIMENSIONS ARE AFTER PLATING.
- MAGNETIC PARTICLE INSPECTION PER ASTM E 1444.

SAE Aerospace An SAE International Group	AEROSPACE STANDARD	AS9521 SHEET 2 OF 3	REV. B
	BOLT, MACHINE - STEEL, CADMIUM PLATED, HEXAGON HEAD, UNS G87400, 125 KSI MIN, .3750-24 UNJF-3A		