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REV.
B

AS9589™

RATIONALE

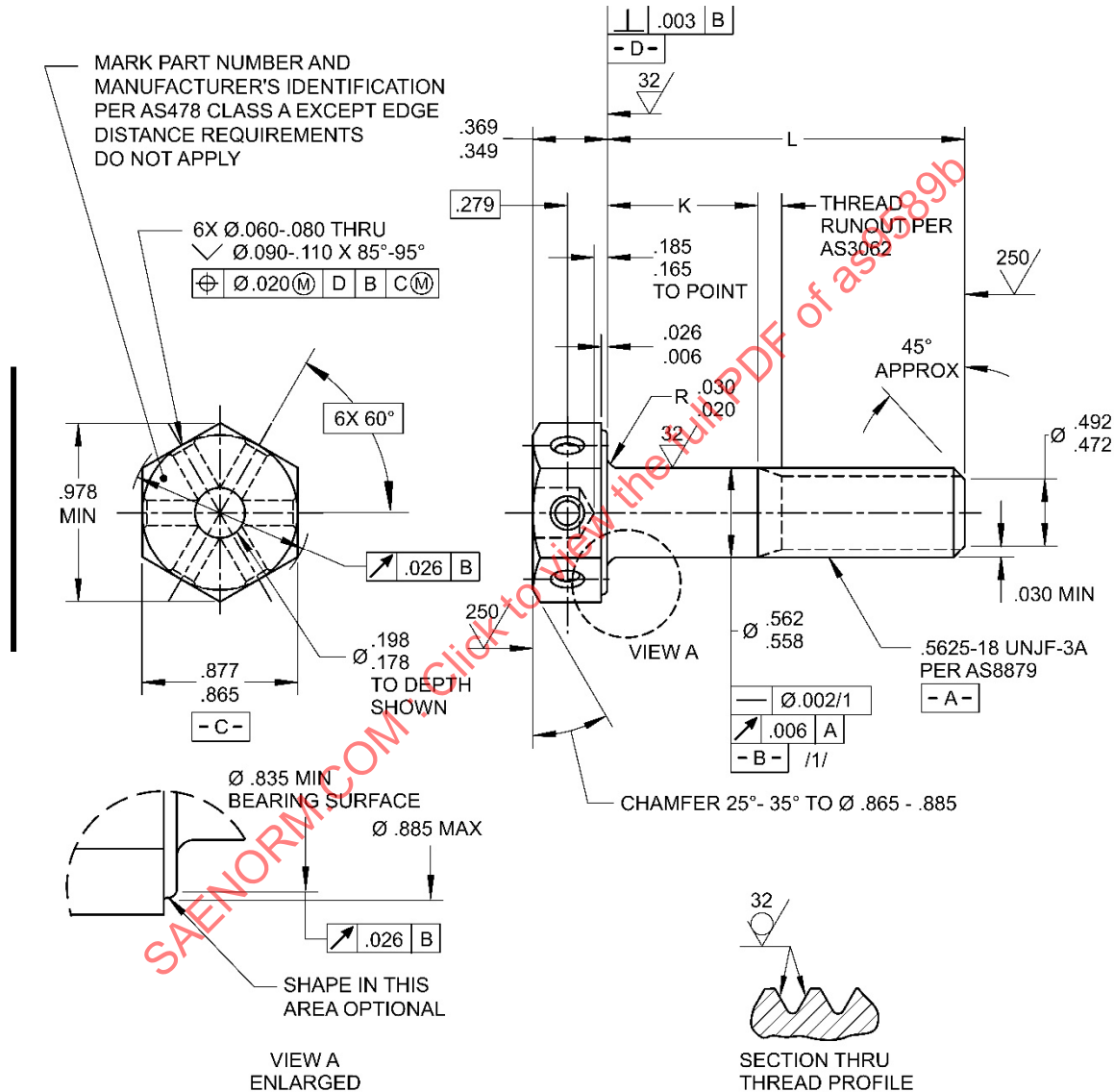
REVISE LEAD THREAD CHAMFER REQUIREMENT TO AS1132, GENERAL EDITORIAL AND FORMAT CHANGES THROUGHOUT.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9589D, AMENDMENT 1. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

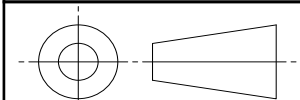
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FEDERAL SUPPLY CLASS
5306



For more information on this standard, visit
<https://www.sae.org/standards/content/AS9589B/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7477



AEROSPACE STANDARD

BOLT, MACHINE-HEXAGON HEAD, DRILLED,
6 HOLES, FULL SHANK, CORROSION AND HEAT
RESISTANT STEEL (UNS S66286), .5625-18 UNJF-3A

AS9589™
SHEET 1 OF 3

REV.
B

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ISSUED 1999-04 REAFFIRMED 2006-05 REVISED 2021-04

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	L	K	APPROX MASS LB/100	PART NUMBER	L	K	APPROX MASS LB/100
MS9589-04	.865- .885	.113- .133	12.08	MS9589-31	3.240-3.260	1.815-1.875	28.81
MS9589-05	.928- .948	.113- .133	12.52	MS9589-32	3.365-3.385	1.940-2.000	29.69
MS9589-06	.990-1.010	.113- .133	12.96	MS9589-33	3.490-3.510	2.065-2.125	30.57
MS9589-07	1.052-1.072	.113- .133	13.40	MS9589-34	3.615-3.635	2.190-2.250	31.45
MS9589-08	1.115-1.135	.113- .133	13.81	MS9589-35	3.740-3.760	2.315-2.375	32.34
MS9589-09	1.178-1.198	.113- .133	14.28	MS9589-36	3.865-3.885	2.440-2.500	33.22
MS9589-10	1.240-1.260	.113- .133	14.72	MS9589-37	3.990-4.010	2.565-2.625	34.10
MS9589-11	1.302-1.322	.113- .133	15.16	MS9589-38	4.115-4.135	2.690-2.750	34.98
MS9589-12	1.365-1.385	.113- .133	15.61	MS9589-39	4.240-4.260	2.815-2.875	35.86
MS9589-13	1.428-1.448	.113- .133	16.05	MS9589-40	4.365-4.385	2.940-3.000	36.74
MS9589-14	1.490-1.510	.113- .133	16.49	MS9589-41	4.490-4.510	3.065-3.125	37.62
MS9589-15	1.552-1.572	.128- .188	16.93	MS9589-42	4.615-4.635	3.190-3.250	38.50
MS9589-16	1.615-1.635	.190- .250	17.27	MS9589-43	4.740-4.760	3.315-3.375	39.38
MS9589-17	1.678-1.698	.252- .312	17.81	MS9589-44	4.865-4.885	3.440-3.500	40.26
MS9589-18	1.740-1.760	.315- .375	18.25	MS9589-45	4.990-5.010	3.565-3.625	41.14
MS9589-19	1.802-1.822	.378- .438	18.69	MS9589-46	5.115-5.135	3.690-3.750	42.02
MS9589-20	1.865-1.885	.440- .500	19.13	MS9589-47	5.240-5.260	3.815-3.875	42.90
MS9589-21	1.990-2.010	.565- .625	20.01	MS9589-48	5.365-5.385	3.940-4.000	43.78
MS9589-22	2.115-2.135	.690- .750	20.89	MS9589-49	5.490-5.510	4.065-4.125	44.66
MS9589-23	2.240-2.260	.815- .875	21.77	MS9589-50	5.615-5.635	4.190-4.250	45.54
MS9589-24	2.365-2.385	.940-1.000	22.65	MS9589-51	5.740-5.760	4.315-4.375	46.42
MS9589-25	2.490-2.510	1.065-1.125	23.53	MS9589-52	5.865-5.885	4.440-4.500	47.30
MS9589-26	2.615-2.635	1.190-1.250	24.41	MS9589-53	5.990-6.010	4.565-4.625	48.18
MS9589-27	2.740-2.760	1.315-1.375	25.29	MS9589-54	1.928-1.948	.502- .562	19.57
MS9589-28	2.865-2.885	1.440-1.500	26.17				
MS9589-29	2.990-3.010	1.565-1.625	27.05				
MS9589-30	3.115-3.135	1.690-1.750	27.93				

NOTES:

- FOR PART NUMBERS MS9589-04 THRU MS9589-23, THE DATUM **A** (THREAD PD) SHALL REPLACE DATUM **B**.
- MATERIAL: CORROSION AND HEAT RESISTANT STEEL PER AMS5731 (COMPOSITION SILMILAR TO UNS S66286).
- PROCUREMENT SPECIFICATION: AS7477.
- FLUORESCENT PENETRANT INSPECTION: FLUORESCENT PENETRANT INSPECTION SHALL BE IN ACCORDANCE WITH ASTM E1417/E1417M, TYPE 1, SENSITIVITY LEVEL 2 MIN.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra EXCEPT UPSET HEAD.
- DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M-1982 (ASME PUBLICATION).
- TOLERANCES: UNLESS OTHERWISE SPECIFIED. TOLERANCES SHALL BE FOR LINEAR DIMENSIONS ± 0.10 , ANGULAR DIMENSIONS $\pm 5^\circ$.
- BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSIONS ARE IN INCHES.
- DO NOT USE UNASSIGNED PART NUMBERS.

	AEROSPACE STANDARD	AS9589™ SHEET 2 OF 3	REV. B
	BOLT, MACHINE-HEXAGON HEAD, DRILLED, 6 HOLES, FULL SHANK, CORROSION AND HEAT RESISTANT STEEL (UNS S66286) .5625-18 UNJF-3A		