

REV. B

SAE AS9705

RATIONALE

FEDERAL SUPPLY CLASS 5306

FIGURE 1 REDRAWN, OPTIONAL SHAPE OF LIGHTENING HOLE ADDED, UPDATE OF SHANK TO FILLET NOTE 5 AND DOCUMENT GENERALLY UPDATED

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9705A, 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.

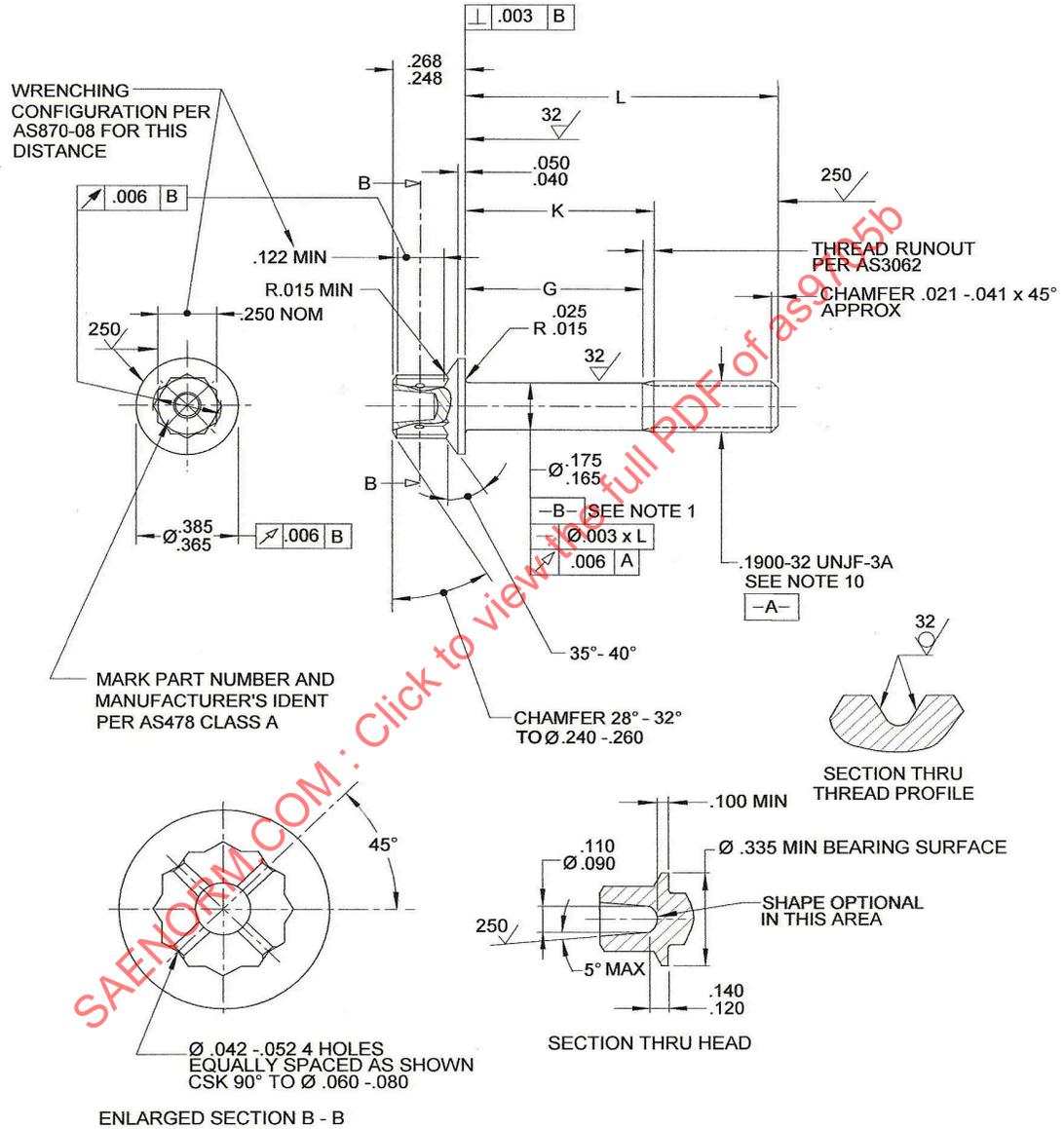
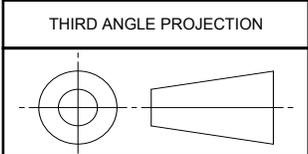


FIGURE 1 - BOLT

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CUSTODIAN: SAE E-25 PROCUREMENT SPECIFICATION: AS7471



AEROSPACE STANDARD
 (R) BOLT, MACHINE-DOUBLE HEXAGON, EXTENDED WASHER HEAD, DRILLED, CORROSION AND HEAT RESISTANT STEEL, .1900-32 UNJF-3A

SAE AS9705
 SHEET 1 OF 3

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ISSUED 1999-08 REAFFIRMED 2005-05 REVISED 2011-10

TABLE 1 - DASH NUMBERS AND DIMENSIONS

PART NUMBER	L	K	APPROX WEIGHT lbs/100	PART NUMBER	L	K	APPROX WEIGHT lbs/100
MS9705-04	.375	.072-.092	.68	MS9705-25	1.688	.998-1.058	1.57
MS9705-05	.438	072-.092	.73	MS9705-26	1.750	1.060-1.120	1.61
MS9705-06	.500	072-.092	.77	MS9705-27	1.812	1.122-1.182	1.64
MS9705-07	.562	072-.092	.81	MS9705-28	1.875	1.185-1.245	1.69
MS9705-08	.625	072-.092	.85	MS9705-29	2.000	1.310-1.370	1.78
MS9705-09	.688	072-.092	.90	MS9705-30	2.125	1.435-1.495	1.86
MS9705-10	.750	.072-.120	.94	MS9705-31	2.250	1.560-1.620	1.94
MS9705-11	.812	.122-.182	.98	MS9705-32	2.375	1.685-1.745	2.03
MS9705-12	.875	.185-.245	1.02	MS9705-33	2.500	1.810-1.870	2.11
MS9705-13	.938	.248-.308	1.06	MS9705-34	2.625	1.935-1.995	2.20
MS9705-14	1.000	310-.370	1.10	MS9705-35	2.750	2.060-2.120	2.28
MS9705-15	1.062	.372-.432	1.15	MS9705-36	2.875	2.185-2.245	2.38
MS9705-16	1.125	.435-.495	1.19	MS9705-37	3.000	2.310-2.370	2.45
MS9705-17	1.188	.498-.558	1.23	MS9705-38	3.125	2.435-2.495	2.53
MS9705-18	1.250	.560-.620	1.27	MS9705-39	3.250	2.560-2.620	2.62
MS9705-19	1.312	.622-.682	1.31	MS9705-40	3.375	2.685-2.745	2.70
MS9705-20	1.375	.685-.745	1.36	MS9705-41	3.500	2.810-2.870	2.78
MS9705-21	1.438	.748-.808	1.40	MS9705-42	3.625	2.935-2.995	2.87
MS9705-22	1.500	.810-.870	1.44	MS9705-43	3.750	3.060-3.120	2.95
MS9705-23	1.562	.872-.932	1.48	MS9705-44	3.875	3.185-3.245	3.04
MS9705-24	1.625	.935-.995	1.52				

NOTES

- FOR PART NUMBERS MS9705-04 THRU MS9705-12 DATUM **B** SHALL BE CHANGED TO DATUM **A**.
- MATERIAL: NICKEL ALLOY AMS55708 (UNS N07001).
- PROCUREMENT SPECIFICATION: AS7471.
- FLUORESCENT PENETRANT INSPECTION PER ASTM E 1417.
- HEAD TO SHANK FILLET SHALL BE COLD ROLLED AFTER HEAT TREATMENT TO REMOVE ALL VISUAL EVIDENCE OF GRINDING OR TOOL MARKS EXCEPT DASH NUMBER SIZES -12 AND SMALLER DO NOT REQUIRE FILLET ROLLING.
- SURFACE TEXTURE: SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED, SHALL BE 125 MICROINCHES, EXCEPT UPSET HEAD, IN ACCORDANCE WITH ANSI B46.1.
- MARK PART NUMBER AND MANUFACTURER'S IDENTIFICATION PER AS478, CLASS A, EXCEPT EDGE DISTANCE REQUIREMENTS WAIVED
- BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE IN INCHES.
- THREADS PER AS8879.
- DIMENSIONS AND TOLERANCING ANSI Y14.5M-1982.(ASME PUBLICATION)
- DO NOT USE UNASSIGNED PART NUMBERS.

 An SAE International Group	AEROSPACE STANDARD	SAE AS9705 SHEET 2 OF 3	REV. B
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