

REV. C

SAE AS9705

RATIONALE

FEDERAL SUPPLY CLASS 5306

RESTORE DIMENSION TO LOCATE SAFETY WIRE HOLES, CORRECT TYPOGRAPHICAL ERRORS IN TABLE 1, REVISE DATUM IDENTIFIERS, UPDATE SURFACE TEXTURE NOTE AND CLARIFY REQUIREMENTS FOR AS FORGED SURFACES, DELETE G DIM, DELETE RADIUS AT BASE OF WRENCH PAD, ADD POSITION REQUIREMENTS FOR SAFETY WIRE HOLES, ADD SENSITIVITY NOTE FOR FPI, RESTORE MAX/MIN LIMITS FOR L DIM, FIGURE 1 REDRAWN WITH EDITORIAL UPDATES.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9705A, AMENDMENT 1, NOTICE 1. THIS SAE STANDARD MAY RETAIN 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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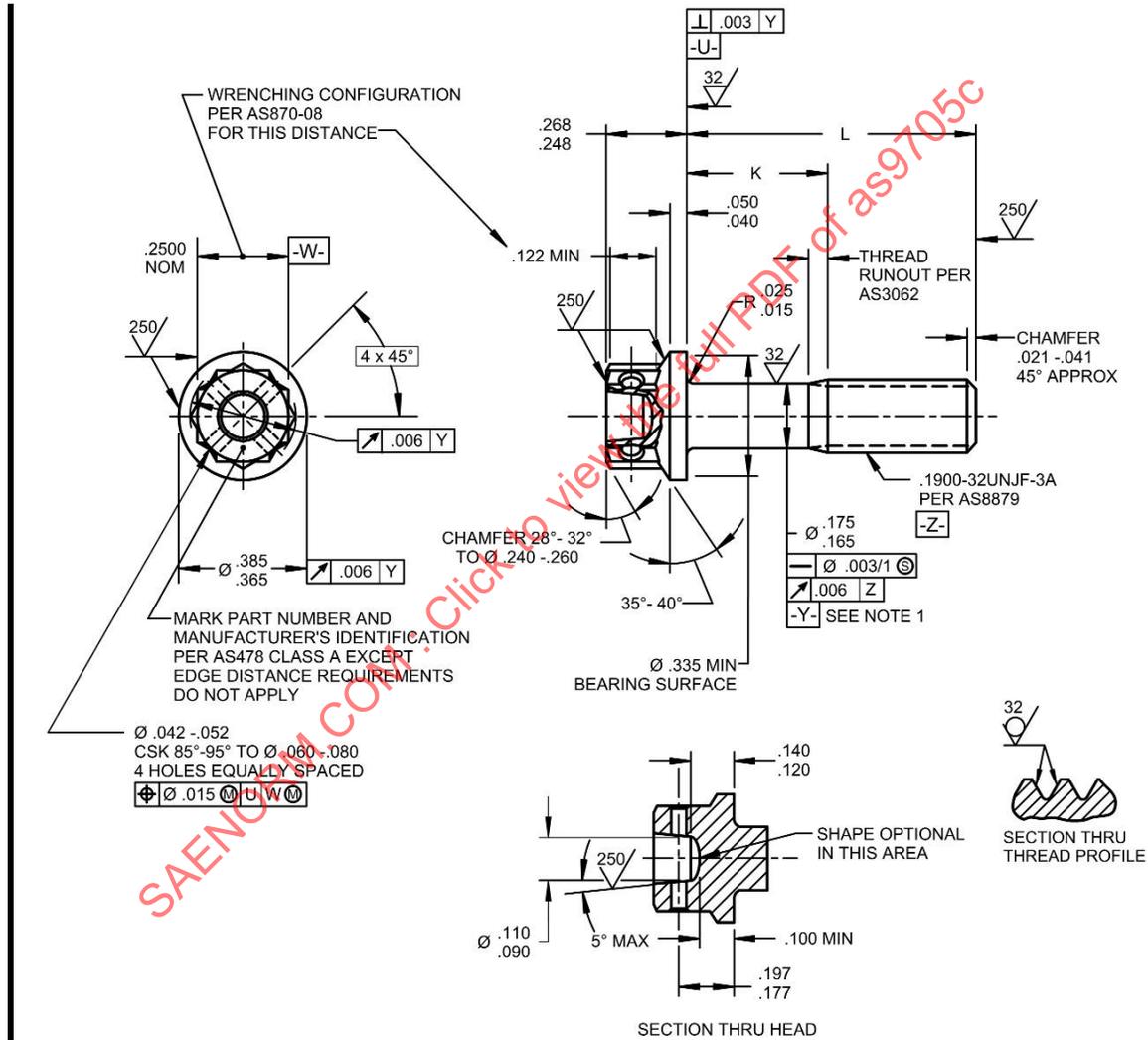
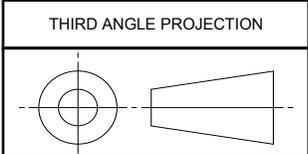


FIGURE 1 - BOLT

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CUSTODIAN: SAE E-25

PROCUREMENT SPECIFICATION: AS7471

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

BOLT, MACHINE-DOUBLE HEXAGON, EXTENDED WASHER HEAD, DRILLED, CORROSION AND HEAT RESISTANT NICKEL ALLOY, .1900-32 UNJF-3A

**SAE AS9705**  
SHEET 1 OF 3

**REV. C**

ISSUED 1999-08 REAFFIRMED 2005-05 REVISED 2013-02

TABLE 1 - DASH NUMBERS AND DIMENSIONS

PART NUMBER	L	K	APPROX WEIGHT lb/100	PART NUMBER	L	K	APPROX WEIGHT lb/100
MS9705-04	.365- .385	.072-.092	.68	MS9705-25	1.678-1.698	.998-1.058	1.57
MS9705-05	.428- .448	.072-.092	.73	MS9705-26	1.740-1.760	1.060-1.120	1.61
MS9705-06	.490- .510	.072-.092	.77	MS9705-27	1.802-1.822	1.122-1.182	1.64
MS9705-07	.552- .572	.072-.092	.81	MS9705-28	1.865-1.885	1.185-1.245	1.69
MS9705-08	.615- .635	.072-.092	.85	MS9705-29	1.990-2.010	1.310-1.370	1.78
MS9705-09	.678- .698	.072-.092	.90	MS9705-30	2.115-2.135	1.435-1.495	1.86
MS9705-10	.740- .760	.072-.120	.94	MS9705-31	2.240-2.260	1.560-1.620	1.94
MS9705-11	.802- .822	.122-.182	.98	MS9705-32	2.365-2.385	1.685-1.745	2.03
MS9705-12	.865- .885	.185-.245	1.02	MS9705-33	2.490-2.510	1.810-1.870	2.11
MS9705-13	.928- .948	.248-.308	1.06	MS9705-34	2.615-2.635	1.935-1.995	2.20
MS9705-14	.990-1.010	.310-.370	1.10	MS9705-35	2.740-2.760	2.060-2.120	2.28
MS9705-15	1.052-1.072	.372-.432	1.15	MS9705-36	2.865-2.885	2.185-2.245	2.38
MS9705-16	1.115-1.135	.435-.495	1.19	MS9705-37	2.990-3.010	2.310-2.370	2.45
MS9705-17	1.178-1.198	.498-.558	1.23	MS9705-38	3.115-3.135	2.435-2.495	2.53
MS9705-18	1.240-1.260	.560-.620	1.27	MS9705-39	3.240-3.260	2.560-2.620	2.62
MS9705-19	1.302-1.322	.622-.682	1.31	MS9705-40	3.365-3.385	2.685-2.745	2.70
MS9705-20	1.365-1.385	.685-.745	1.36	MS9705-41	3.490-3.510	2.810-2.870	2.78
MS9705-21	1.428-1.448	.748-.808	1.40	MS9705-42	3.615-3.635	2.935-2.995	2.87
MS9705-22	1.490-1.510	.810-.870	1.44	MS9705-43	3.740-3.760	3.060-3.120	2.95
MS9705-23	1.552-1.572	.872-.932	1.48	MS9705-44	3.865-3.885	3.185-3.245	3.04
MS9705-24	1.615-1.635	.935-.995	1.52				

## NOTES:

- FOR PART NUMBERS MS9705-04 THRU MS9705-12 DATUM **Z** SHALL BE CHANGED TO DATUM **Y**.
- MATERIAL: CORROSION AND HEAT RESISTANT NICKEL ALLOY AMS5708 (UNS N07001).
- PROCUREMENT SPECIFICATION: AS7471.
- FLUORESCENT PENETRANT INSPECTION PER ASTM E 1417, SENSITIVITY LEVEL 2 MINIMUM.
- HEAD TO SHANK FILLET SHALL BE COLD ROLLED, EXCEPT DASH NUMBER SIZES -12 AND SMALLER DO NOT REQUIRE FILLET ROLLING.
- SURFACE TEXTURE: SYMBOLS ARE PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICRONS Ra.
- BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE IN INCHES.
- DIMENSIONS AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
- DO NOT USE UNASSIGNED PART NUMBERS.
- UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THIS STANDARD MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.

 An SAE International Group	<b>AEROSPACE STANDARD</b>	 SHEET 2 OF 3	<b>REV.</b> <b>C</b>
	BOLT, MACHINE-DOUBLE HEXAGON, EXTENDED WASHER HEAD, DRILLED, CORROSION AND HEAT RESISTANT NICKEL ALLOY .1900-32 UNJF-3A		