

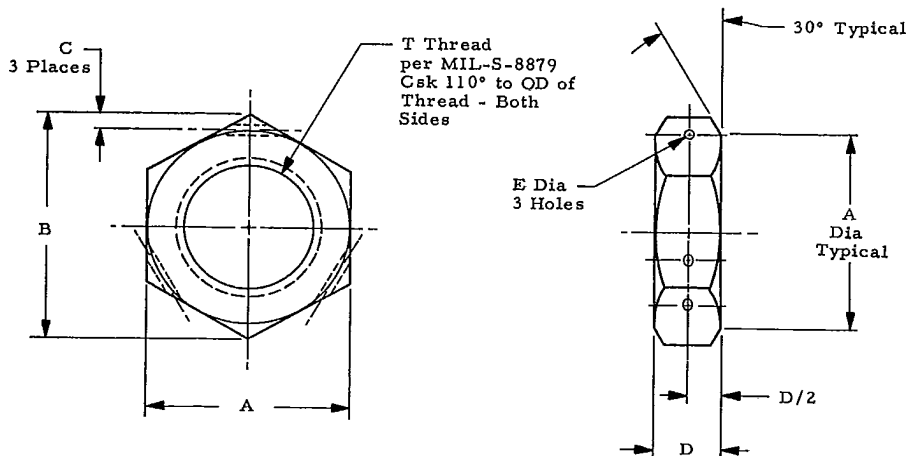


**Aerospace
Industries
Association**

NATIONAL AEROSPACE STANDARD

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FED SUP CLASS



AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1250 EYE STREET, N.W.
WASHINGTON, D.C. 20005

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST DATE OF APPROVAL SHOWN HEREON.

Dash No	T Thread	A Dia	A Tolerance	B Min	C	D	E +.004 -.001	Approx Weight Lbs/Ea
06	.1380-32 UNJC-3B	.313	+.002/-0.010	.340	.048	.125	.035	.002
08	.1640-32 UNJC-3B	.344	+.002/-0.010	.376	.051	.125	.035	.003
3	.1900-32 UNJF-3B	.375	+.002/-0.010	.411	.053	.156	.035	.004
4	.2500-28 UNJF-3B	.438	+.002/-0.010	.484	.056	.188	.046	.006
5	.3125-24 UNJF-3B	.500	+.002/-0.010	.555	.058	.219	.046	.009
6	.3750-24 UNJF-3B	.563	+.002/-0.010	.628	.060	.250	.046	.012
7	.4375-20 UNJF-3B	.625	+.002/-0.010	.700	.063	.281	.046	.015
8	.5000-20 UNJF-3B	.750	+.002/-0.010	.844	.093	.313	.046	.036
9	.5625-18 UNJF-3B	.875	+.002/-0.012	.986	.093	.375	.046	.044
10	.6250-18 UNJF-3B	1.000	+.002/-0.014	1.128	.093	.406	.046	.065
12	.7500-16 UNJF-3B	1.125	+.002/-0.016	1.271	.125	.469	.070	.087
14	.8750-14 UNJF-3B	1.313	+.002/-0.017	1.486	.125	.500	.070	.127
16*	1.0000-14 UNJS-3B	1.500	+.002/-0.019	1.700	.125	.500	.070	.166
17	1.0000-12 UNJF-3B	1.500	+.002/-0.019	1.700	.125	.500	.070	.166
18	1.1250-12 UNJF-3B	1.625	+.002/-0.020	1.843	.125	.531	.070	.204
20	1.2500-12 UNJF-3B	1.750	+.002/-0.022	1.985	.125	.563	.070	.252
22	1.3750-12 UNJF-3B	1.875	+.002/-0.024	2.127	.125	.594	.070	.276
24	1.5000-12 UNJF-3B	2.000	+.002/-0.025	2.270	.125	.625	.070	.300
26	1.6250-12 UNJF-3B	2.125	+.002/-0.027	2.414	.125	.656	.070	.358
28	1.7500-12 UNJF-3B	2.250	+.002/-0.028	2.556	.125	.688	.070	.421
30	1.8750-12 UNJF-3B	2.375	+.002/-0.030	2.698	.125	.719	.070	.490
32	2.0000-12 UNJF-3B	2.625	+.002/-0.030	2.986	.125	.750	.070	.625
34	2.1250-12 UNJF-3B	2.750	+.002/-0.031	3.130	.125	.781	.070	.715
36	2.2500-12 UNJF-3B	2.875	+.002/-0.032	3.273	.125	.812	.070	.813

*SEE NOTE 6

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LIST OF CURRENT SHEETS	
NO.	REV.
1	6
2	2

CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE		THIRD ANGLE PROJECTION
PROCUREMENT SPECIFICATION FF-N-836 AS APPLICABLE	TITLE NUT, DRILLED JAM	CLASSIFICATION STANDARD PART NAS 509
		SHEET 1 OF 2

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REVISION ① 25 Oct. 1952 ② 15 Dec. 1954 ③ 30 Nov. 1956 ④ 15 April 1965 ⑤ 15 Sept. 1972 ⑥ 9 Dec. 1992

APPROVAL DATE

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1250 EYE STREET, N.W.
WASHINGTON, D.C. 20005THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME PRODUCT AND
SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST DATE OF APPROVAL SHOWN
HEREON.

- MATERIAL:** STEEL, 4130, (UNS G41300) SPECIFICATION MIL-S-6758, CONDITION F-4
 (2) CRES, A-286, (UNS S66286) SPECIFICATION AMS 5525, AMS 5732, OR AMS 5737
- HEAT-TREAT:** STEEL - ROCKWELL C34-38 (150,000 PSI MIN TS) SPECIFICATION MIL-H-6875
 CRES - 150,000 PSI MIN TS
- FINISH:** STEEL - CADMIUM PLATE PER QQ-P-416, TYPE II, CLASS 2. PARTS ALREADY MADE WITH CLASS 3
 PLATING MAY BE FURNISHED FROM SUPPLIERS' STOCK UNTIL 15 SEPT. 1974.
 CRES - PASSIVATE PER QQ-P-35
- CODE:** DASH NUMBER DESIGNATES THREAD SIZE AS NOTED IN THE TABLE ON SHEETS 1 AND 2.
 SUFFIX "L" TO BASIC PART NUMBER FOR LEFT HAND THREAD.
 SUFFIX "C" TO DASH NUMBER FOR A-286 CRES MATERIAL.
- EXAMPLE:** NAS509-4 = STEEL JAM NUT WITH .2500-28 UNJF-3B RIGHT HAND THREAD
 NAS509L4 = STEEL JAM NUT WITH .2500-28 UNJF-3B LEFT HAND THREAD
 NAS509-4C = A-286 CRES JAM NUT WITH .2500-28 UNJF-3B RIGHT HAND THREAD
- NOTES:**
1. THIS NUT IS INTENDED FOR USE WITH THE NAS513 KEYED WASHER, NAS559 KEY, AND NAS1193 LOCKING DEVICE FOR POSITIVE LOCKING OF ROD END TERMINALS TO HYDRAULIC PISTON RODS, TIE ROD ENDS, PUSH-PULL RODS, ETC.
 - (2) 2. ALL MACHINED SURFACES 125 MICROINCHES MAXIMUM IN ACCORDANCE WITH ANSI/ASME B46.1.
 - (2) 3. STEEL NUTS SHALL BE MAGNETIC PARTICLE INSPECTED IN ACCORDANCE WITH MIL-STD-1949. CRES NUTS SHALL BE FLUORESCENT PENETRANT INSPECTED IN ACCORDANCE WITH MIL-STD-6866. PARTS SHALL NOT BE MARKED AS AN INDICATION OF MAGNETIC PARTICLE OR FLUORESCENT PENETRANT INSPECTION.
 4. REMOVE ALL BURRS AND SHARP EDGES.
 5. BEARING SURFACE TO BE SQUARE WITH THREAD WITHIN .003 INCH PER INCH DIAMETER.
 6. -16 INACTIVE FOR DESIGN AFTER 1 JANUARY 1965; SEE -17.
 - (2) 7. ~~PARTS ALREADY MADE WITH THREADS PER MIL-S-7742 MAY BE FURNISHED FROM SUPPLIERS' STOCK UNTIL 15 SEPT. 1974.~~
 8. MAGNETIC PERMEABILITY OF THE CRES NUTS SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER MIL-I-17214, OR EQUIVALENT.
 9. DIMENSIONS IN INCHES. TOLERANCES, UNLESS OTHERWISE SPECIFIED, DECIMALS, ± 0.10 ; ANGLES, ± 1 DEG.
 10. PARTS ALREADY MADE IN THREAD SIZES, .2500-28 THROUGH .4375-20 WITH C DIMENSION OF .093 MAY BE FURNISHED FROM SUPPLIER'S STOCK UNTIL 15 SEPTEMBER 1974.

NAS509

SHEET 2 OF 2

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APPROVAL DATE Sept. 1952 REVISION (1) 15 Sept. 1972 (2) 9 Dec. 1992