

NATIONAL AEROSPACE STANDARD

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC., 1725 DE SALES STREET, N. W. WASHINGTON, D. C. 20036

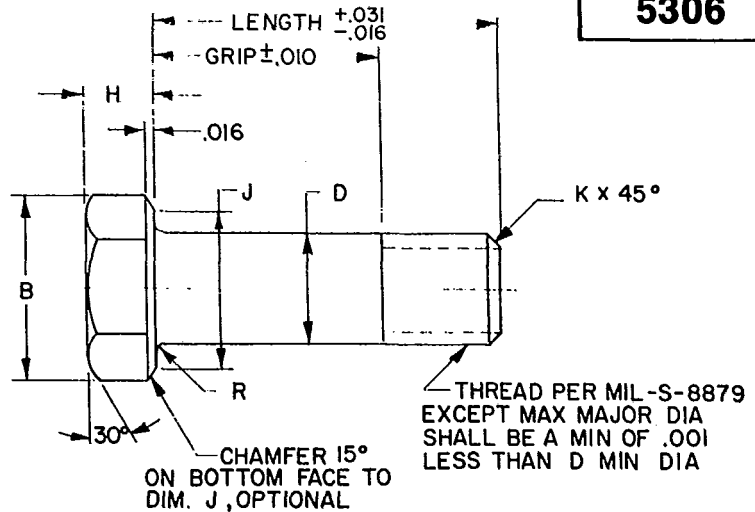
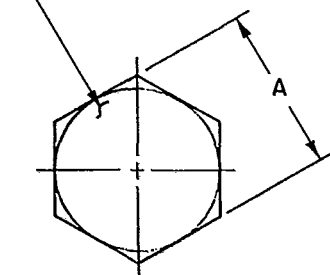
FED SUP CLASS
5306IDENTIFY PER
NAS1347, TYPE II

TABLE I

FIRST DASH NO.	THREAD (UNJF-3A)	A	B (REF)	D DIA	H ±.016	J DIA MIN See Note 2	K +.000 - .010	R
-3	NO. 10-32	.375 +.002 -.010	.43	.1895 .1890	.094	.359	.016	.020 .010
-4	1/4-28	.438 +.002 -.010	.51	.2495 .2490	.125	.422	.016	.020 .010
-5	5/16-24	.500 +.002 -.010	.58	.3120 .3115	.156	.484	.031	.020 .010
-6	3/8-24	.562 +.002 -.010	.65	.3745 .3740	.188	.547	.031	.025 .015
-7	7/16-20	.625 +.002 -.010	.72	.4370 .4365	.219	.611	.031	.025 .015
-8	1/2-20	.750 +.002 -.010	.87	.4995 .4990	.250	.734	.031	.030 .020
-9	9/16-18	.875 +.002 -.010	1.01	.5615 .5610	.281	.859	.047	.035 .020
-10	5/8-18	.938 +.002 -.010	1.09	.6240 .6235	.312	.922	.047	.040 .025
-12	3/4-16	1.062 +.003 -.010	1.23	.7490 .7485	.375	1.047	.047	.045 .030
-14	7/8-14	1.250 +.003 -.010	1.44	.8740 .8735	.438	1.234	.062	.050 .035
-16	1-12	1.438 +.003 -.010	1.66	.9990 .9985	.500	1.422	.062	.060 .045

CODE: First dash number designates thread size as tabulated
Second dash number designates grip in increments of 1/16 of an inch (as per Table II).

PART NUMBER EXAMPLE: NAS1588 -3 -4

— Grip of .250
— No. 10-32 Dia Bolt
— Basic Part Number

② INACTIVE FOR DESIGN AFTER
JUNE 1980. FOR DESCRIPTION
OF STATUS NOTES SEE NAS380.

MATERIAL: Corrosion and heat resistant alloy, - iron base (U-212) as per NAS1597, Cond F.

HEAT TREATMENT: 185,000 psi min at room temperature; 140,000 psi min at 1200°F as per NAS1597.

ROCKWELL HARDNESS: C40 to C46

FINISH: Clean and passivate in accordance with MIL-S-5002.

NOTES: 1. Bolts shall be free from all burrs and slivers which might become dislodged under usage.
2. The "J" diameter of the washer face shall not exceed the actual width across the flats.

DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED,
TOLERANCES: 2 Place = ±.03, 3 Place = ±.010, Angles = ±5°

List of Current Sheets	
Sheet	Revision
1	1
2	1

CUSTODIAN: NATIONAL AEROSPACE STANDARDS COMMITTEE

PROCUREMENT
SPECIFICATION

NAS 1589

TITLE

BOLT
SHEAR, HEX HEAD, 1200°F

CLASSIFICATION

Standard Part

Documents
Sheet 1 of 2

NATIONAL AEROSPACE STANDARD

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC., 1725 DE SALES STREET, N. W. WASHINGTON, D. C. 20036

TABLE II

SECOND DASH NO.	GRIP ±0.10	DIAMETER (FIRST DASH NO.)										
		NO. 10	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
		-3	-4	-5	-6	-7	-8	-9	-10	-12	-14	-16
LENGTH												
-4	.250	.613	.653	.751	.844	.925	1.018					
-5	.313	.676	.716	.814	.907	.988	1.081					
-6	.375	.738	.778	.876	.969	1.050	1.143	1.256	1.356			
-7	.438	.801	.841	.939	1.032	1.113	1.206	1.319	1.419			
-8	.500	.863	.903	1.001	1.094	1.175	1.268	1.381	1.481	1.657	1.851	
-9	.563	.926	.966	1.064	1.157	1.238	1.331	1.444	1.544	1.720	1.914	
-10	.625	.988	1.028	1.126	1.219	1.300	1.393	1.506	1.606	1.782	1.976	2.144
-11	.688	1.051	1.091	1.189	1.282	1.363	1.456	1.569	1.669	1.845	2.039	2.207
-12	.750	1.113	1.153	1.251	1.344	1.425	1.518	1.631	1.731	1.907	2.101	2.269
-13	.813	1.176	1.216	1.314	1.407	1.488	1.581	1.694	1.794	1.970	2.164	2.332
-14	.875	1.238	1.278	1.376	1.469	1.550	1.643	1.756	1.856	2.032	2.226	2.394
-15	.938	1.301	1.341	1.439	1.532	1.613	1.706	1.819	1.919	2.095	2.289	2.457
-16	1.000	1.363	1.403	1.501	1.594	1.675	1.768	1.881	1.981	2.157	2.351	2.519
-17	1.062	1.426	1.466	1.564	1.657	1.738	1.831	1.943	2.043	2.220	2.414	2.582
-18	1.125	1.488	1.528	1.626	1.719	1.800	1.893	2.006	2.106	2.282	2.476	2.644
-19	1.188	1.551	1.591	1.689	1.782	1.863	1.956	2.068	2.168	2.345	2.539	2.707
-20	1.250	1.613	1.653	1.751	1.844	1.925	2.018	2.231	2.331	2.407	2.601	2.769
-21	1.313	1.676	1.716	1.814	1.907	1.988	2.081	2.093	2.193	2.470	2.664	2.832
-22	1.375	1.738	1.778	1.876	1.969	2.050	2.143	2.256	2.356	2.532	2.726	2.894
-23	1.438	1.801	1.841	1.939	2.032	2.113	2.206	2.318	2.418	2.595	2.789	2.957
-24	1.500	1.863	1.903	2.001	2.094	2.175	2.268	2.381	2.481	2.657	2.851	3.019
-25	1.563	1.926	1.966	2.064	2.157	2.238	2.331	2.443	2.543	2.720	2.914	3.082
-26	1.625	1.988	2.028	2.126	2.219	2.300	2.393	2.506	2.606	2.782	2.976	3.144
-27	1.687	2.051	2.091	2.189	2.282	2.363	2.456	2.569	2.669	2.845	3.039	3.207
-28	1.750	2.113	2.153	2.251	2.344	2.425	2.518	2.631	2.731	2.907	3.101	3.269
-29	1.813	2.176	2.216	2.314	2.407	2.488	2.581	2.694	2.794	2.970	3.164	3.332
-30	1.875	2.238	2.278	2.376	2.469	2.550	2.643	2.756	2.856	3.032	3.226	3.394
-31	1.938	2.301	2.341	2.439	2.532	2.613	2.706	2.819	2.919	3.095	3.289	3.457
-32	2.000	2.363	2.403	2.501	2.594	2.675	2.768	2.881	2.981	3.157	3.351	3.519
-34	2.125	2.488	2.528	2.626	2.719	2.800	2.893	3.006	3.106	3.282	3.476	3.644
-36	2.250	2.613	2.653	2.751	2.844	2.925	3.018	3.131	3.231	3.407	3.601	3.769
-38	2.375	2.738	2.778	2.876	2.969	3.050	3.143	3.256	3.356	3.532	3.726	3.894
-40	2.500	2.863	2.903	3.001	3.094	3.175	3.268	3.381	3.481	3.657	3.851	4.019
-42	2.625	2.988	3.028	3.126	3.219	3.300	3.393	3.506	3.606	3.782	3.976	4.144
-44	2.750	3.113	3.153	3.251	3.344	3.425	3.518	3.631	3.731	3.907	4.101	4.269
-46	2.875	3.238	3.278	3.376	3.469	3.550	3.643	3.756	3.856	4.032	4.226	4.394
-48	3.000	3.363	3.403	3.501	3.594	3.675	3.768	3.881	3.981	4.157	4.351	4.519
-50	3.125	3.488	3.528	3.626	3.719	3.800	3.893	4.006	4.106	4.282	4.476	4.644
-52	3.250		3.653	3.751	3.844	3.925	4.018	4.131	4.231	4.407	4.601	4.769
-54	3.375		3.778	3.876	3.969	4.050	4.143	4.256	4.356	4.532	4.726	4.894
-56	3.500		3.903	4.001	4.094	4.175	4.268	4.381	4.481	4.657	4.851	5.019
-58	3.625			4.126	4.219	4.300	4.393	4.506	4.606	4.782	4.976	5.144
-60	3.750			4.251	4.344	4.425	4.518	4.631	4.731	4.907	5.101	5.269
-62	3.875			4.376	4.469	4.550	4.643	4.756	4.856	5.032	5.226	5.394
-64	4.000			4.501	4.594	4.675	4.768	4.881	4.981	5.157	5.351	5.519
-66	4.125				4.719	4.800	4.893	5.006	5.106	5.282	5.476	5.644
-68	4.250				4.844	4.925	5.018	5.131	5.231	5.407	5.601	5.769
-70	4.375				4.969	5.050	5.143	5.256	5.356	5.532	5.726	5.894
-72	4.500				5.094	5.175	5.268	5.381	5.481	5.657	5.851	6.019
-74	4.625					5.300	5.393	5.506	5.606	5.782	5.976	6.144
-76	4.750					5.425	5.518	5.631	5.731	5.907	6.101	6.269
-78	4.875					5.550	5.643	5.756	5.856	6.032	6.226	6.394
-80	5.000					5.675	5.768	5.881	5.981	6.157	6.351	6.519
-82	5.125							6.006	6.106	6.282	6.476	6.644
-84	5.250							6.131	6.231	6.407	6.601	6.769
-86	5.375							6.256	6.356	6.532	6.726	6.894
-88	5.500							6.381	6.481	6.657	6.851	7.019
-90	5.625							6.506	6.606	6.782	6.976	7.144
-92	5.750							6.631	6.731	6.907	7.101	7.269
-94	5.875							6.756	6.856	7.032	7.226	7.394
-96	6.000							6.881	6.981	7.157	7.351	7.519
LONGER GRIPS THAN SPECIFIED MAY BE CODED FOR BY USE OF ADDITIONAL EVEN DASH NUMBERS (1/8" INCREMENTS ONLY)												

LONGER GRIPS THAN SPECIFIED
MAY BE CODED FOR BY USE OF
ADDITIONAL EVEN DASH NUMBERS
(1/8" INCREMENTS ONLY)

② INACTIVE FOR DESIGN AFTER JUNE 1980. FOR DESCRIPTION OF STATUS NOTES SEE NAS380.

CUSTODIAN: NATIONAL AEROSPACE STANDARDS COMMITTEE

PROCUREMENT
SPECIFICATION
NAS 1589

TITLE
BOLT
SHEAR, HEX HEAD, 1200°F

CLASSIFICATION
Standard Part

AIA/NAS 1588
Document Sharing Hub
Sheet 2