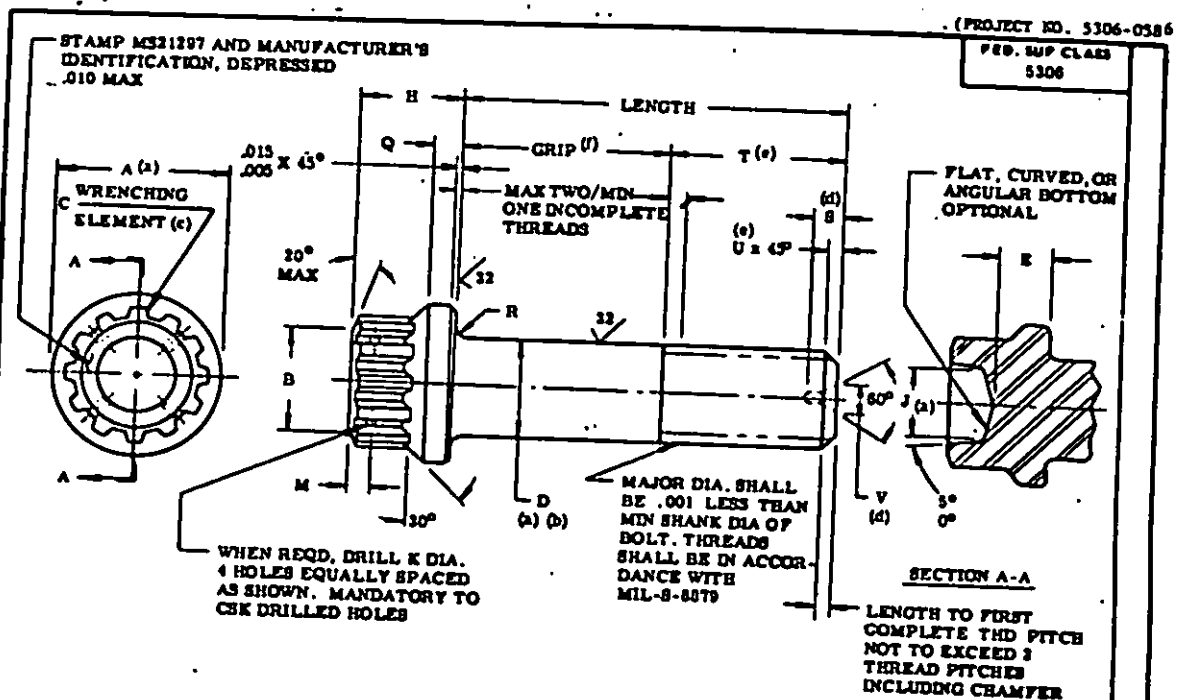


SIZE SYMBOLS:  
ARMY - MI

REVISED SYMBOLS:  
NSA - S  
ARMY - AT

"Section/size information is correct as of the date of this document. For future coordination of changes to this document, staff consultation should be based on the information in the current document."

This military standard is mandatory for use by all Departments & Agencies of the Department of Defense. Selection for all new engineering and design applications and for replacement use shall be made from this document.



# NOTES:

1. MATERIAL: ALLOY STEEL PER AMS 6487.
2. HARDNESS: ROCKWELL C46-50
3. SURFACE TEXTURE IN ACCORDANCE WITH ANSI (ASA) B46.1 - 1962.
4. PLATING: CADMIUM COATED (VACUUM DEPOSITED): MIL-C-8837, TYPE II, CLASS 2.
5. DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS  $\pm .010$ , ANGLES  $13^\circ$
6. DIMENSIONS TO BE MET AFTER PLATING.
7. DESIGN AND USAGE INFORMATION: THESE BOLTS ARE DESIGNED TO BE USED WITH MS21084 NUTS AND MS21206 WASHERS.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

<p>(A) REVISED</p>	<p>P. A. NAVY - AS</p>	<p>TITLE</p>
<p>Other Code</p> <p>USAF - 11</p> <p>ARMY - AV</p>	<p>BOLT, TENSION, STEEL, 220 KSI T<sub>u</sub>, 450°F., EXTERNAL WRENCHING, SPLINE DRIVE, FLANGED HEAD</p>	<p>MILITARY STANDARD</p>
<p>PROCUREMENT SPECIFICATION</p> <p>MIL-B-8906</p>	<p>SUPERSEDES</p>	<p>MS21297</p> <p>SHEET 1 OF 6</p>

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

PLATE NO. 15329

APPROVED 28 JAN 1972 REVISED (A) 6 OCT 1973

USER SYMBOLS:  
ARMY - MI

REVIEWER SYMBOLS:  
DSA - IS  
ARMY - AT

"Below/seen information is current as of the date of this document.  
For future coordination of changes to this document, draft circulation  
should be based on the information in the current DD155."

This military standard is mandatory for use by all Departments  
B. Agencies of the Department of Defense. Selection for all new  
engineering and design applications and for replacement use shall  
be made from this document.

FED. SUP CLASS  
6306

DIA DASH NO.	NOMINAL SIZE	THREAD UNJF-3A	A - DIA (a)		B - DIA		C(c) WRENCHING ELEMENT	D - DIA (a) (b)		DASH NO.
			MAX	MIN	MAX	MIN		MAX	MIN	
03	NO. 10	.1900-32	.359	.349	.188	.173	8	.1895	.1885	03
04	1/4	.2500-28	.470	.460	.250	.235	10	.2495	.2485	04
05	5/16	.3125-24	.585	.575	.375	.360	12	.3120	.3110	05
06	3/8	.3750-24	.701	.691	.438	.423	14	.3745	.3735	06
07	7/16	.4375-20	.817	.807	.500	.485	16	.4370	.4360	07
08	1/2	.5000-20	.932	.922	.562	.547	20	.4995	.4985	08
09	9/16	.5625-18	1.047	1.037	.625	.610	22	.5615	.5605	09
10	5/8	.6250-18	1.163	1.153	.688	.673	24	.6240	.6230	10
12	3/4	.7500-16	1.394	1.384	.812	.797	28	.7490	.7480	12
14	7/8	.8750-14	1.625	1.615	.938	.923	32	.8740	.8730	14
16	1	1.0000-12	1.856	1.846	1.062	1.047	36	.9990	.9980	16
18	1 1/8	1.1250-12	2.087	2.077	1.250	1.235	42	1.1240	1.1225	18
20	1 1/4	1.2500-12	2.318	2.308	1.375	1.360	48	1.2490	1.2475	20
22	1 3/8	1.3750-12	2.549	2.539	1.500	1.485	52	1.3740	1.3725	22
24	1 1/2	1.5000-12	2.780	2.770	1.625	1.610	56	1.4990	1.4975	24

DASH NO.	E MIN	H .010	J (a) .010 .030	K .005	M	Q		R - RAD.		S MAX (d)	T MIN REF (e)	DASH NO.
						MAX	MIN	MAX	MIN			
03	.113	.205	.100	.037	.062	.037	.017	.022	.016		.408	03
04	.149	.250	.125			.046	.026	.028	.022		.495	04
05	.187	.312	.215			.055	.035	.035	.029		.589	05
06	.224	.337	.260			.064	.044	.043	.033		.659	06
07	.262	.393	.320	.055	.070	.073	.053	.049	.039		.763	07
08	.299	.450	.380			.082	.062	.055	.045		.838	08
09	.336	.505	.440			.091	.071	.061	.051		.935	09
10	.374	.562	.500			.100	.080	.068	.058		1.005	10
12	.449	.600	.570		.094	.118	.098	.080	.070	200	1.173	12
14	.523	.700	.650			.136	.116	.093	.083		1.348	14
16	.599	.800	.740			.154	.134	.105	.095	260	1.546	16
18	.674	.900	.840			.172	.152	.118	.108		1.698	18
20	.749	1.000	1.070		.125	.190	.170	.130	.120		1.836	20
22	.824	1.100	1.140			.208	.188	.143	.133	320	1.976	22
24	.899	1.200	1.200			.226	.206	.155	.145		2.116	24

APPROVED 28 JAN 1972 REVISED 1 FOR CHGS SEE SHT 1

P.A. NAVY - AS Other Cust USAF - 11 ARMY - AV	TITLE BOLT, TENSION, STEEL, 220 KSI Ftu, 450° F., EXTERNAL WRENCHING, SPLINE DRIVE, FLANGED HEAD	MILITARY STANDARD MS21297
PRELUMENENT SPECIFICATION MIL-B-8906	SUPERSEDES:	SHEET 2 OF 6

DD FORM 672-1 (Coordinated)

Previous editions of this form are obsolete.

PLATE NO. 15328

FED. SUP CLASS  
5206USER SYMBOLS:  
ARMY - MREVIEW SYMBOLS:  
DSA - S  
ARMY - AT

\*Revised/inter information is current as of the date of this document.  
For future coordination of changes in this document, draft quantities  
should be based on the information in the current 000195.

This military standard is mandatory for use by all Departments  
& Agencies of the Department of Defense. Solicitation for all new  
engineering and design applications use for completion use shall  
be made from this document.

DASH NO.	U REF (e)	V MAX (d)	CENTER DRILL SIZE (d)	BEARING AREA (MEAN DIA) SQ. IN.	ULTIMATE TENSILE STRENGTH LB MIN	DOUBLE SHEAR STRENGTH LB MIN	CONCENTRICITY		DASH NO.
							X (a)	Z (b)	
03	.039			.0517	4,770	7,480	.004		03
04	.045			.0914	8,540	13,000	.005		04
05	.052			.1442	13,500	20,200	.006	.0045	05
06				.2106	20,900	29,100	.008		06
07	.063			.2896	28,300	39,700	.009		07
08				.3786	37,800	51,800	.010		08
09	.069			.4808	47,900	65,600	.011	.0060	09
10				.5945	59,900	81,000	.012		10
12	.078	.187	2	.7512	86,900	117,000	.015		12
14	.089			1.1673	119,000	159,000	.018		14
16		.250	3	1.5465	155,000	207,000	.020	.0090	16
18				1.9438	198,000	263,000	.022		18
20	.104			2.4020	247,000	324,000	.025		20
22		.312	4	2.9060	301,000	382,000	.028		22
24				3.4638	361,000	466,000	.030	.0120	24

- (a) DIMENSIONS A, D AND J SHALL BE CONCENTRIC TO EACH OTHER WITHIN VALUES SPECIFIED FOR X T.J.R.  
 (b) DIMENSIONS D AND THREAD PITCH DIAMETER SHALL BE CONCENTRIC TO EACH OTHER WITHIN VALUES SPECIFIED PER Z T.J.R.  
 (c) WRENCHING ELEMENT PER MS33787. DRIVERS PER MIL-W-8982.  
 (d) ON BOLT SIZES .750 INCH AND LARGER, CENTER DRILLING OF SHANK IS OPTIONAL.  
 (e) REFERENCE DIMENSIONS ARE FOR DESIGN PURPOSES ONLY AND ARE NOT INSPECTION OR MANUFACTURING REQUIREMENTS.  
 (f) GRIP LENGTH OF BOLT SHALL BE MEASURED FROM UNDERSIDE OF HEAD TO THE END OF FULL CYLINDRICAL PORTION OF SHANK.

APPROVED 26 JAN 1972 REVISED A FOR CHCS SEE SHT 1

P.A. NAVY - AS	TITLE  BOLT, TENSION, STEEL, 220 KSI FLX, 450° F., EXTERNAL WRENCHING, SPLINE DRIVE, FLANGED HEAD	MILITARY STANDARD
Other Code USAF - 11 ARMY - AV		MS21297
PROCUREMENT SPECIFICATION MIL-B 8906	SUPERSEDES	SHEET 3 OF 6

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO. 15329

USED SYMBOLS:

ARMY - MI

REVIEWER SYMBOLS:

ISA - IS

ARMY - AT

\*Section/series information is current as of the date of this document.  
For future consideration of changes to this document, draft circulation  
should be based on the information in the current 000193.

This military standard is mandatory for use by all Departments  
& Agencies of the Department of Defense. Selection for all new  
engineering and design applications and for repetitive use shall  
be made from this document.

		DIAMETER DASH NUMBERS																	
		03	04	05	06	07	08	09	10	12	14	16	18	20	22	24			
		LENGTH x .015																	
GRIP DASH NO.	GRIP x .010	003	004	005	006	007	008	009	010	012	014	016	018	020	022	024			
003	.188	.610	.698	.792	.892	.986	1.040	1.138	1.208	1.376	1.550	1.748	1.998	2.038	2.178	2.318			
004	.250	.673	.760	.854	.924	1.028	1.103	1.200	1.370	1.438	1.613	1.811	1.981	2.101	2.241	2.381			
005	.312	.736	.822	.916	.986	1.090	1.166	1.263	1.332	1.500	1.676	1.874	2.024	2.164	2.304	2.444			
006	.375	.799	.885	.979	1.049	1.153	1.228	1.325	1.395	1.563	1.738	1.936	2.086	2.226	2.366	2.506			
007	.438	.860	.948	1.042	1.112	1.216	1.290	1.388	1.458	1.626	1.800	1.998	2.148	2.288	2.428	2.568			
008	.500	.923	1.010	1.104	1.174	1.278	1.353	1.450	1.520	1.688	1.863	2.061	2.211	2.351	2.491	2.631			
009	.562	.986	1.072	1.166	1.236	1.340	1.416	1.512	1.582	1.750	1.926	2.124	2.274	2.414	2.554	2.694			
010	.625	1.048	1.135	1.229	1.299	1.403	1.478	1.575	1.645	1.813	1.988	2.186	2.336	2.476	2.616	2.756			
011	.688	1.110	1.198	1.292	1.362	1.466	1.540	1.638	1.708	1.876	2.050	2.248	2.398	2.538	2.678	2.818			
012	.750	1.173	1.260	1.354	1.424	1.528	1.603	1.700	1.770	1.938	2.113	2.311	2.461	2.601	2.741	2.881			
013	.812	1.236	1.322	1.416	1.486	1.590	1.666	1.762	1.832	2.000	2.176	2.374	2.524	2.664	2.804	2.944			
014	.875	1.298	1.385	1.479	1.549	1.653	1.728	1.825	1.895	2.063	2.238	2.436	2.586	2.726	2.866	3.006			
015	.938	1.360	1.448	1.542	1.612	1.716	1.790	1.888	1.958	2.126	2.300	2.498	2.648	2.788	2.928	3.068			
016	1.000	1.423	1.510	1.604	1.674	1.778	1.853	1.950	2.020	2.188	2.363	2.561	2.711	2.851	2.991	3.131			
017	1.062	1.486	1.572	1.666	1.736	1.840	1.916	2.012	2.082	2.250	2.426	2.624	2.774	2.914	3.054	3.194			
018	1.125	1.548	1.635	1.729	1.799	1.903	1.978	2.075	2.145	2.313	2.488	2.686	2.836	2.976	3.116	3.256			
019	1.188	1.610	1.698	1.792	1.862	1.966	2.040	2.138	2.208	2.376	2.550	2.748	2.898	3.038	3.178	3.318			
020	1.250	1.673	1.760	1.854	1.924	2.028	2.103	2.200	2.270	2.438	2.613	2.811	2.961	3.101	3.241	3.381			
021	1.312	1.736	1.822	1.916	1.986	2.090	2.166	2.262	2.332	2.500	2.676	2.874	3.024	3.164	3.304	3.444			
022	1.375	1.798	1.885	1.979	2.049	2.153	2.228	2.325	2.395	2.563	2.738	2.936	3.086	3.226	3.366	3.506			
023	1.438	1.860	1.949	2.042	2.112	2.216	2.290	2.388	2.458	2.626	2.800	2.998	3.148	3.288	3.428	3.568			
024	1.500	1.923	2.010	2.104	2.174	2.278	2.353	2.450	2.520	2.688	2.863	3.061	3.211	3.351	3.491	3.631			
025	1.562	1.986	2.072	2.166	2.236	2.340	2.416	2.512	2.582	2.750	2.926	3.124	3.274	3.414	3.554	3.694			
026	1.625	2.048	2.135	2.229	2.299	2.403	2.478	2.575	2.645	2.813	2.988	3.186	3.336	3.476	3.616	3.756			
027	1.688	2.110	2.198	2.292	2.362	2.466	2.540	2.638	2.708	2.876	3.050	3.248	3.398	3.538	3.678	3.818			
028	1.750	2.173	2.260	2.354	2.424	2.528	2.603	2.700	2.770	2.938	3.113	3.311	3.461	3.601	3.741	3.881			
029	1.812	2.236	2.322	2.416	2.486	2.590	2.666	2.762	2.832	3.000	3.176	3.374	3.524	3.664	3.804	3.944			
030	1.875	2.298	2.385	2.479	2.549	2.653	2.728	2.825	2.895	3.063	3.238	3.436	3.586	3.726	3.866	4.006			
031	1.938	2.360	2.448	2.542	2.612	2.716	2.790	2.888	2.958	3.126	3.300	3.498	3.648	3.788	3.928	4.068			
032	2.000	2.423	2.510	2.604	2.674	2.778	2.853	2.950	3.020	3.188	3.363	3.561	3.711	3.851	3.991	4.131			
033	2.062	2.486	2.572	2.666	2.736	2.840	2.916	3.012	3.082	3.250	3.426	3.624	3.774	3.914	4.054	4.194			
034	2.125	2.548	2.635	2.729	2.799	2.903	2.978	3.075	3.145	3.313	3.488	3.686	3.836	3.976	4.116	4.256			

P.A.	NAVY - AB	TITLE	MI
Other Cust			
USAF - 11		BOLT, TENSION, STEEL, 320KSI Flu, 450° F.,	
ARMY - AV		EXTERNAL WRENCHING.	
		SPLINE DRIVE, FLANGED HEAD	MS
PROCUREMENT SPECIFICATION	SUPSEDES:		SHEET
MIL-B - 8906			

FED. SUP CLASS  
5308

APPROVED 28 JAN 1972 REVISED (A) FOR CHCS SEE SHT 1

P.A. NAVY - AS

Other Cust  
USAF - 11  
ARMY - AVPROCUREMENT SPECIFICATION  
MIL-B-8906

TITLE

BOLT, TENSION, STEEL, 220KSI Ftu, 450° F.,  
EXTERNAL WRENCHING,  
SPLINE DRIVE, FLANGED HEAD

SUPERSEDES:

MILITARY STANDARD

MS21297

SHEET 4 OF 6

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

PLATE NO. 15329

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 & Agencies of the Department of Defense. Selection for all new  
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\*Review/Issue information is current as of the date of this document.  
 For future consideration of changes to this document, users permission  
 should be based on the information in the current 000109.

REVIEWER SYMBOLS: DSA - IS  
 ARMY - AT  
 USER SYMBOLS: ARMY - MI

FED. SUP. CLASS  
5300

		DIAMETER DASH NUMBERS																	
		LENGTH * 0.015																	
		03	04	05	06	07	08	09	10	12	14	16	18	20	22	24			
GRIP DASH NO.	GRIP .010																		
035	2.188	2.610	2.699	2.792	2.882	2.966	3.040	3.138	3.203	3.278	3.350	3.448	3.595	3.638	3.741	3.841	3.918	4.038	4.118
036	2.250	2.673	2.760	2.854	2.924	3.028	3.103	3.200	3.270	3.348	3.413	3.511	3.661	3.691	3.811	3.911	4.011	4.241	4.341
037	2.312	2.736	2.822	2.916	2.986	3.090	3.166	3.263	3.332	3.400	3.478	3.574	3.724	3.754	3.874	3.974	4.104	4.304	4.444
038	2.375	2.799	2.885	2.979	3.049	3.153	3.228	3.325	3.395	3.463	3.538	3.634	3.784	3.814	3.934	4.034	4.164	4.364	4.504
039	2.438	2.860	2.948	3.042	3.112	3.216	3.290	3.387	3.458	3.526	3.600	3.696	3.846	3.876	3.996	4.096	4.226	4.426	4.566
040	2.500	2.923	3.010	3.104	3.174	3.278	3.353	3.450	3.520	3.588	3.662	3.758	3.908	3.938	4.058	4.158	4.288	4.488	4.628
041	2.562	2.986	3.072	3.166	3.236	3.340	3.416	3.512	3.582	3.650	3.724	3.820	3.970	3.999	4.119	4.219	4.349	4.549	4.689
042	2.625	3.048	3.135	3.229	3.299	3.403	3.478	3.575	3.645	3.713	3.788	3.884	4.034	4.063	4.183	4.283	4.413	4.613	4.753
043	2.688	3.110	3.198	3.292	3.362	3.466	3.540	3.637	3.707	3.775	3.850	3.946	4.096	4.125	4.245	4.345	4.475	4.675	4.815
044	2.750	3.173	3.260	3.354	3.424	3.528	3.603	3.700	3.770	3.838	3.913	4.009	4.159	4.188	4.308	4.408	4.538	4.738	4.878
045	2.812	3.236	3.322	3.416	3.486	3.590	3.666	3.762	3.832	3.900	3.975	4.071	4.221	4.250	4.370	4.470	4.600	4.800	4.940
046	2.875	3.299	3.385	3.479	3.549	3.653	3.728	3.825	3.895	3.963	4.038	4.134	4.284	4.313	4.433	4.533	4.663	4.863	5.003
047	2.938	3.360	3.448	3.542	3.612	3.716	3.790	3.888	3.958	4.026	4.100	4.196	4.346	4.375	4.495	4.595	4.725	4.925	5.065
048	3.000	3.423	3.510	3.604	3.674	3.778	3.853	3.950	4.020	4.088	4.162	4.258	4.408	4.437	4.557	4.657	4.787	4.987	5.127
049	3.062	3.486	3.573	3.666	3.736	3.840	3.916	4.012	4.082	4.150	4.224	4.320	4.470	4.499	4.619	4.719	4.849	5.049	5.189
050	3.125	3.548	3.635	3.729	3.799	3.903	3.978	4.075	4.145	4.213	4.288	4.384	4.534	4.563	4.683	4.783	4.913	5.113	5.253
051	3.188	3.610	3.695	3.792	3.862	3.966	4.040	4.138	4.208	4.276	4.350	4.446	4.596	4.625	4.745	4.845	4.975	5.175	5.315
052	3.250	3.673	3.760	3.854	3.924	4.028	4.103	4.200	4.270	4.338	4.413	4.509	4.659	4.688	4.808	4.908	5.038	5.238	5.378
053	3.312	3.736	3.822	3.916	3.986	4.090	4.166	4.263	4.332	4.400	4.474	4.570	4.720	4.749	4.869	4.969	5.099	5.299	5.439
054	3.375	3.799	3.885	3.979	4.049	4.153	4.228	4.325	4.395	4.463	4.538	4.634	4.784	4.813	4.933	5.033	5.163	5.363	5.503
055	3.438	3.860	3.948	4.042	4.112	4.216	4.290	4.388	4.458	4.526	4.600	4.696	4.846	4.875	4.995	5.095	5.225	5.425	5.565
056	3.500	3.923	4.010	4.104	4.174	4.278	4.353	4.450	4.520	4.588	4.662	4.758	4.908	4.937	5.057	5.157	5.287	5.487	5.627
057	3.562	3.986	4.072	4.166	4.236	4.340	4.416	4.512	4.582	4.650	4.724	4.820	4.970	4.999	5.119	5.219	5.349	5.549	5.689
058	3.625	4.048	4.135	4.229	4.299	4.403	4.478	4.575	4.645	4.713	4.788	4.884	5.034	5.063	5.183	5.283	5.413	5.613	5.753
059	3.688	4.110	4.198	4.292	4.362	4.466	4.540	4.638	4.708	4.776	4.850	4.946	5.096	5.125	5.245	5.345	5.475	5.675	5.815
060	3.750	4.173	4.260	4.354	4.424	4.528	4.603	4.700	4.770	4.838	4.913	5.009	5.159	5.188	5.308	5.408	5.538	5.738	5.878
061	3.812	4.236	4.322	4.416	4.486	4.590	4.666	4.762	4.832	4.900	4.975	5.071	5.221	5.250	5.370	5.470	5.600	5.800	5.940
062	3.875	4.299	4.385	4.479	4.549	4.653	4.728	4.825	4.895	4.963	5.038	5.134	5.284	5.313	5.433	5.533	5.663	5.863	6.003
063	3.938	4.360	4.448	4.542	4.612	4.716	4.790	4.888	4.958	5.026	5.100	5.196	5.346	5.375	5.495	5.595	5.725	5.925	6.065
064	4.000	4.423	4.510	4.604	4.674	4.778	4.853	4.950	5.020	5.088	5.162	5.258	5.408	5.437	5.557	5.657	5.787	5.987	6.127
065	4.062	4.486	4.573	4.666	4.736	4.840	4.916	5.012	5.082	5.150	5.224	5.320	5.470	5.499	5.619	5.719	5.849	6.049	6.189
066	4.125	4.548	4.635	4.729	4.799	4.903	4.978	5.075	5.145	5.213	5.288	5.384	5.534	5.563	5.683	5.783	5.913	6.113	6.253
068	4.250	4.673	4.760	4.854	4.924	5.028	5.103	5.200	5.270	5.338	5.413	5.509	5.659	5.688	5.808	5.908	6.038	6.238	6.378

MILITARY STANDARD

MS21297

SHEET 5 OF 6

APPROVED 28 JAN 1972 REVISED (A) FOR CHG SIZE SHT 1

FED. SUP CLASS  
5306

DD FORM 672-1 (Coordinated)

PROVIDED BY THE FORM AND ORIGINATOR

PLATE NO. 15220

APPROVED 28 JAN 1972 REVISED A FOR CHS2 SEE DRT 1

MILITARY STANDARD

MS21297

SHEET 5 OF 6

BOLT, TENSION, STEEL, 320 KSI F<sub>u</sub>, 430° F.,  
 EXTERNAL WRENCHING,  
 SPLINE DRIVE, FLANGED HEAD

NAVY - AS  
 USAF - 11  
 ARMY - AV

PRELIMINARY SPECIFICATION  
 MIL-B-8906

\*Revision/inter information is current as of the date of this document.  
For future coordination of changes to this document, draft circulation  
should be based on the information in the current 000155.

This military standard is mandatory for use by all Departments  
in Agencies of the Department of Defense. Selection for all new  
engineering and design applications and for replacement use shall  
be made from this document.

REVIEWER SYMBOLS:  
DSA - IS  
ARMY - AT

USED SYMBOLS:  
ARMY - MT

P. A.	GRIP DASH NO.	GRIP *010	DIAMETER DASH NUMBERS																
			03	04	05	06	07	08	09	10	12	14	16	18	20	22	24		
			LENGTH *015																
NAVY - AS	070	4.375	4.798	4.885	4.970	5.049	5.153	5.228	5.325	5.395	5.563	5.738	5.936	6.086	6.226	6.366	6.506		
	072	4.500	4.923	5.010	5.104	5.174	5.278	5.353	5.450	5.520	5.688	5.863	6.061	6.211	6.351	6.491	6.631		
	074	4.625	5.048	5.135	5.229	5.299	5.403	5.478	5.575	5.645	5.813	5.988	6.186	6.336	6.476	6.616	6.756		
	076	4.750	5.173	5.260	5.354	5.424	5.528	5.603	5.700	5.770	5.938	6.113	6.311	6.461	6.601	6.741	6.881		
	078	4.875	5.298	5.385	5.479	5.549	5.653	5.728	5.825	5.895	6.063	6.238	6.456	6.586	6.726	6.866	7.006		
	080	5.000	5.423	5.510	5.604	5.674	5.778	5.853	5.950	6.020	6.188	6.363	6.561	6.711	6.851	6.991	7.131		
	082	5.125	5.548	5.635	5.729	5.799	5.903	5.978	6.075	6.145	6.313	6.488	6.686	6.836	6.976	7.116	7.256		
	084	5.250	5.673	5.760	5.854	5.924	6.028	6.103	6.200	6.270	6.438	6.613	6.811	6.961	7.101	7.241	7.381		
	086	5.375	5.798	5.885	5.979	6.049	6.153	6.228	6.325	6.395	6.563	6.738	6.936	7.086	7.226	7.366	7.506		
	088	5.500	5.923	6.010	6.104	6.174	6.278	6.353	6.450	6.520	6.688	6.863	7.061	7.211	7.351	7.491	7.631		
	090	5.625	6.048	6.135	6.229	6.299	6.403	6.478	6.575	6.645	6.813	6.988	7.186	7.336	7.476	7.616	7.756		
	092	5.750	6.173	6.260	6.354	6.424	6.528	6.603	6.700	6.770	6.938	7.113	7.311	7.461	7.601	7.741	7.881		
TITLE	094	5.875	6.298	6.385	6.479	6.549	6.653	6.728	6.825	6.895	7.063	7.238	7.436	7.586	7.726	7.866	8.006		
	096	6.000	6.423	6.510	6.604	6.674	6.778	6.853	6.950	7.020	7.188	7.363	7.561	7.711	7.851	7.991	8.131		
	098	6.125							7.075	7.145	7.313	7.488	7.686	7.836	7.976	8.116	8.256		
	100	6.250							7.200	7.270	7.438	7.613	7.811	7.961	8.101	8.241	8.381		
	102	6.375							7.325	7.395	7.563	7.738	7.936	8.086	8.226	8.366	8.506		
	104	6.500							7.450	7.520	7.688	7.863	8.061	8.211	8.351	8.491	8.631		
	106	6.625							7.575	7.645	7.813	7.988	8.186	8.336	8.476	8.616	8.756		
	108	6.750							7.700	7.770	7.938	8.113	8.311	8.461	8.601	8.741	8.881		
	110	6.875							7.825	7.895	8.063	8.238	8.436	8.586	8.726	8.866	9.006		
	112	7.000							7.950	8.020	8.188	8.363	8.561	8.711	8.851	8.991	9.131		
	Other Cust			BOLT, TENSION, STEEL, 220KSI F															
	USAF - 11			EXTERNAL WRENCHING															
ARMY - AV			SPLINE DRIVE, FLANGE																
PROCUREMENT SPECIFICATION MIL-B-8906			SUPERSEDES:																

DIAMETER DASH NO. AT TOP OF TABLE, PLUS GRIP DASH NO. FIRST COLUMN ON LEFT OF TABLE CONSTITUTES A COMPLETE DASH.  
IDENTIFYING SPECIFIED LENGTHS OF A GIVEN SIZE OF BOLT.  
ADD LETTER 'H' BEFORE DASH NO. TO DESIGNATE DRILLED HEAD. FIRST TWO DASH NUMBERS DESIGNATE DIAMETER IN SIXTEENTHS.  
LAST THREE DASH NUMBERS DESIGNATE GRIP LENGTH IN SIXTEENTHS.  
UNASSIGNED DASH NOS. SHALL NOT BE USED.

EXAMPLES OF PART NUMBER:  
MS21297-04016 - 1/4-28 BOLT, 1.510 LONG, 1.000 GRIP, UNDRILLED HEAD.  
MS21297H04016 - 1/4-28 BOLT, 1.510 LONG, 1.000 GRIP, DRILLED HEAD.  
MS21297-05020 - 5/16-24 BOLT, 1.854 LONG, 1.250 GRIP, UNDRILLED HEAD.  
MS21297H05020 - 5/16-24 BOLT, 1.854 LONG, 1.250 GRIP, DRILLED HEAD.

PED. SUP CLASS  
5306

APPROVED 28 JAN 1972 REVISED A FOR CHCS SEE SHT 1

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

PLATE NO. 16329

MILITARY STANDARD

MS21297

SHEET 6 OF 6