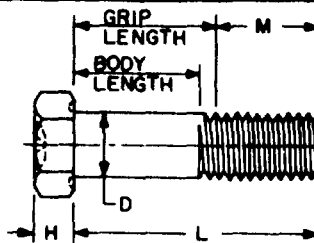
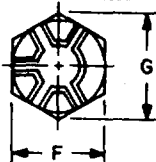


**INACTIVE FOR NEW DESIGN  
AFTER 15 MAY 1973**

USE  
MS35764



FED. SUP CLASS  
**5306**

TABLE I

NOMINAL SIZE		.250				.3125				.375				.4375					
THREADS PER INCH		20		28		18		24		16		24		14		20			
D	BODY DIAMETER	MAX	.250		.3125		.375		.4375		MIN	.245		.3065		.369		.4305	
F	ACROSS FLATS	MAX	.438		.500		.562		.625		MIN	.428		.489		.551		.612	
G	ACROSS CORNERS	MAX	.505		.577		.650		.722		MIN	.488		.557		.628		.698	
H	HEAD HEIGHT	MAX	.135		.198		.260		.291		MIN	.125		.188		.250		.281	
M	THREAD LENGTH	REF	.750		.875		1.000		1.125										
N	UNTHREADED* LENGTH - MAX		.125	.089		.139	.104		.156	.104		.179	.125						
L	FINISH	DASH NO.	BODY LGT MIN	GRIP LGT MAX	DASH NO.	BODY LGT MIN	GRIP LGT MAX	DASH NO.	BODY LGT MIN	GRIP LGT MAX	DASH NO.	BODY LGT MIN	GRIP LGT MAX						
.750	CAD PHOS	803 203	1003 603		817 217	1017 617		831 231	1031 631		846 246	1046 646							
.875	CAD PHOS	804 204	1004 604	.125	818 218	1018 618		832 232	1032 632		847 247	1047 647							
1.000	CAD PHOS	805 205	1005 605	.250	819 219	1019 619		833 233	1033 633		848 248	1048 648							
1.250	CAD PHOS	807 207	1007 607	.100	.500	821 221	1021 621	.375	835 235	1035 635	.250	850 250	1050 650						
1.500	CAD PHOS	808 208	1008 608	.350	.750	822 222	1022 622	.208	.625	836 236	1036 636	.062	.500	851 251	1051 651	.375			
1.750	CAD PHOS	809 209	1009 609	.600	1.000	823 223	1023 623	.458	.875	837 237	1037 637	.312	.750	852 252	1052 652	.161	.625		
2.000	CAD PHOS	810 210	1010 610	.850	1.250	824 224	1024 624	.708	1.125	838 238	1038 638	.562	1.000	853 253	1053 653	.411	.875		
2.250	CAD PHOS	811 211	1011 611	1.100	1.500	825 225	1025 625	.958	1.375	839 239	1039 639	.812	1.250	854 254	1054 654	.661	1.125		
2.500	CAD PHOS	812 212	1012 612	1.350	1.750	826 226	1026 626	1.208	1.625	840 240	1040 640	1.062	1.500	855 255	1055 655	.911	1.375		
2.750	CAD PHOS	813 213	1013 613	1.600	2.000	827 227	1027 627	1.458	1.875	841 241	1041 641	1.312	1.750	856 256	1056 656	1.161	1.625		
3.000	CAD PHOS	814 214	1014 614	1.850	2.250	828 228	1028 628	1.708	2.125	842 242	1042 642	1.562	2.000	857 257	1057 657	1.411	1.875		
3.250	CAD PHOS													858 258	1058 658	1.661	2.125		
3.500	CAD PHOS										1044 644	2.062	2.500	859 259	1059 659	1.911	2.375		
3.750	CAD PHOS													860 260	1060 660	2.161	2.625		
4.000	CAD PHOS													861 261	1061 661	2.411	2.875		

REVIEWER: AT, AV, GL, IS, NSA  
USER: EL, ME, EA, PA, WY, OS, MC, SH

APPROVED 16 AUG 1956  
REVISED (A) 13 SEP 1966 (B) 19 JUN 1967 (C) 8 AUG 1969 (D) 15 MAY 1973 (E) 29 DEC 1975

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

\*See note 6.

**INACTIVE**

(E) ENTIRE STANDARD REVISED

P.A. WC Other Cust 82	TITLE <b>BOLT, SELF-LOCKING, HEXAGON HEAD, STEEL, GRADE 5, UNC-2A AND UNF-2A</b>	<b>MILITARY STANDARD MS35763</b>
PROCUREMENT SPECIFICATION MIL-B-45912	SUPERSEDES: BAQX1 thru BAQX1.5 and BAX1 thru BAX2	SHEET 1 OF 5

TABLE I - Continued													FED. SUP CLASS 5306				
NOMINAL SIZE		.500			.5625			.625			.750						
THREADS PER INCH		13	20		12	18		11	18		10	16					
D BODY DIAMETER	MAX	.500			.5625			.625			.750						
	MIN	.493			.5545			.617			.741						
F ACROSS FLATS	MAX	.750			.812			.875			1.000						
	MIN	.736			.798			.860			.983						
G ACROSS CORNERS	MAX	.866			.938			1.010			1.155						
	MIN	.840			.910			.980			1.121						
H HEAD HEIGHT	MAX	.327			.390			.390			.458						
	MIN	.312			.375			.375			.438						
M THREAD LENGTH	REF	1.250			1.375			1.500			1.750						
N UNTHREADED LENGTH	MAX	.192	.125		.208	.139		.227	.139		.250	.156					
		L LENGTH	FINISH	DASH NO	BODY LGT MIN	GRIP LGT MAX	DASH NO	BODY LGT MIN	GRIP LGT MAX	DASH NO	BODY LGT MIN	GRIP LGT MAX	DASH NO	BODY LGT MIN	GRIP LGT MAX		
.750	CAD PHOS	864 264	1064 664			882 282	1082 682										
.875	CAD PHOS	865 265	1065 665			883 283	1083 683										
1.000	CAD PHOS	866 266	1066 666			884 284	1084 684		900 300	1100 700			1116 716				
1.250	CAD PHOS	868 268	1068 668			886 286	1086 686		902 302	1102 702		918 318	1118 718				
1.500	CAD PHOS	869 269	1069 669		.250	887 287	1087 687		903 303	1103 703		919 319	1119 719				
1.750	CAD PHOS	870 270	1070 670	.019	.500	888 288	1088 688	.375	904 304	1104 704	.250	920 320	1120 720				
2.000	CAD PHOS	871 271	1071 671	.269	.750	889 289	1089 689	.625	905 305	1105 705	.500	921 321	1121 721	.250			
2.250	CAD PHOS	872 272	1072 672	.519	1.000	890 290	1090 690	.125	.875	906 306	1106 706	.750	922 322	1122 722	.500		
2.500	CAD PHOS	873 273	1073 673	.769	1.250	891 291	1091 691	.375	1.125	907 307	1107 707	.227	1.000	923 323	1123 723	.750	
2.750	CAD PHOS	874 274	1074 674	1.019	1.500	892 292	1092 692	.625	1.375	908 308	1108 708	.477	1.250	924 324	1124 724	.200	1.000
3.000	CAD PHOS	875 275	1075 675	1.269	1.750	893 293	1093 693	.875	1.625	909 309	1109 709	.727	1.500	925 325	1125 725	.450	1.250
3.250	CAD PHOS	876 276	1076 676	1.519	2.000	894 294	1094 694	1.125	1.875	910 310	1110 710	.977	1.750	926 326	1126 726	.700	1.500
3.500	CAD PHOS	877 277	1077 677	1.769	2.250	895 295	1095 695	1.375	2.125	911 311	1111 711	1.227	2.000	927 327	1127 727	.950	1.750
3.750	CAD PHOS	878 278	1078 678	2.019	2.500	896 296	1096 696	1.625	2.375	912 312	1112 712	1.447	2.250	928 328	1128 728	1.200	2.000
4.000	CAD PHOS	879 279	1079 679	2.269	2.750	897 297	1097 697	1.875	2.625	913 313	1113 713	1.727	2.500	929 329	1129 729	1.450	2.250
4.500	CAD PHOS									914 314	1114 714	2.227	3.000	930 330	1130 730	1.950	2.750

REVIEWER: AT, AV, GL, IS, NSA  
USER: EL, ME, EA, PA, WY, OS, MC, SH

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

\* See note 6

**INACTIVE (SEE SHEET 1)**

P.A. WC Other Cust 82	TITLE <b>BOLT, SELF-LOCKING, HEXAGON HEAD, STEEL, GRADE 5, UNC-2A AND UNF-2A</b>	<b>MILITARY STANDARD MS35763</b>
PROCUREMENT SPECIFICATION MIL-B-45912	SUPERSEDES: BAQX1 thru BAQX1.5 and BARK1 thru BARK2	SHEET 2 OF 5

APPROVED 16 AUG 1956 REVISED (A) 13 SEP 1966 (B) 19 JUN 1967 (C) 8 AUG 1969 (D) 15 MAY 1973 (E) FOR CHANGES SEE SHEET 1.

TABLE I - Continued											FED. SUP CLASS 5306			
NOMINAL SIZE		.875				1.000				1.250				
THREADS PER INCH		9		14		8		12		7		12		
D	BODY DIAMETER	MAX	.875				1.000				1.250			
		MIN	.866				.990				1.239			
F	ACROSS FLATS	MAX	1.125				1.312				1.688			
		MIN	1.106				1.292				1.663			
G	ACROSS CORNERS	MAX	1.299				1.516				1.949			
		MIN	1.261				1.473				1.896			
H	HEAD HEIGHT	MAX	.520				.582				.697			
		MIN	.500				.562				.677			
M	THREAD LENGTH REF	2.000				2.250				2.750				
N	UNTHREADED LENGTH	MAX	.278	.179					.312	.208				
											.357	.208		
L	LENGTH	FINISH	DASH NO.	BODY LGT MIN	GRIP LGT MAX	DASH NO.	BODY LGT MIN	GRIP LGT MAX	DASH NO.	BODY LGT MIN	GRIP LGT MAX			
1.250		CAD PHOS	1133 733			1148 748								
1.500		CAD PHOS	934 334	1134 734					1177 777					
1.750		CAD PHOS	935 335	1135 735		950 350	1150 750							
2.000		CAD PHOS	936 336	1136 736		951 351	1151 751		979 379	1179 779				
2.250		CAD PHOS	937 337	1137 737		952 352	1152 752		980 380	1180 780				
2.500		CAD PHOS	938 338	1138 738		.500 953 353	1153 753		981 381	1181 781				
2.750		CAD PHOS	939 339	1139 739		.750 954 354	1154 754		.500 982 382	1182 782				
3.000		CAD PHOS	940 340	1140 740	.167	1.000 955 355	1155 755		.750 983 383	1183 783				
3.250		CAD PHOS	941 341	1141 741	.417	1.250 956 356	1156 756	.125	1.000 984 384	1184 784	.500			
3.500		CAD PHOS	942 342	1142 742	.667	1.500 957 357	1157 757	.375	1.250 985 385	1185 785	.750			
3.750		CAD PHOS	943 343	1143 743	.917	1.750 958 358	1158 758	.625	1.500 986 386	1186 386	.071			
4.000		CAD PHOS	944 344	1144 744	1.167	2.000 959 359	1159 759	.875	1.750 987 387	1187 787	.321			
4.500		CAD PHOS	945 345	1145 745	1.667	2.500 960 360	1160 760	1.375	2.250 988 388	1188 788	.821			
5.000		CAD PHOS	946 346	1146 746	2.167	3.000 961 361	1161 761	1.875	2.750 989 389	1189 789	1.321			

REVIEWER: AT, AV, GL, IS, NSA  
USER: EL, ME, EA, PA, WV, OS, MC, SH

APPROVED 16 AUG 1956 REVISED A 12 SEP 1966 B 19 JUN 1967 C 8 AUG 1969 D 15 MAY 1973 E FOR CHANGES SEE SHEET 1

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

\* See note 6.

NOMINAL SIZE	.250 .3125 .375	.4375 .500	.5625 .625 .750	.875 1.000	1.250
LENGTH	TOLERANCE (+.000)				
Thru 1.000	-.030	-.030	-.030		
Over 1.000 thru 2.500	-.040	-.060	-.080	-.100	-.120
Over 2.500 thru 4.000	-.060	-.080	-.100	-.140	-.160
Over 4.000				-.160	-.180

INACTIVE (SEE SHEET 1)

P.A. WC Other Cust: 82	TITLE <b>BOLT, SELF-LOCKING, HEXAGON HEAD, STEEL, GRADE 5, UNC-2A AND UNF-2A</b>	<b>MILITARY STANDARD MS35763</b>
PROCUREMENT SPECIFICATION MIL-B-45912	SUPERSEDES: BAQX1 thru BAQX1.5 and BARX1 thru BARX2	SHEET 3 OF 5

FED. SUP CLASS  
5306

- NOTES:
- MATERIAL:** Steel, SAE Grade 5 in accordance with procurement specification.
  - PROTECTIVE COATING:** Cadmium plated in accordance with QQ-P-416, Type II, Class 2.  
Phosphate coated in accordance with MIL-P-16232, Type 2, Class 2.
  - THREADS:** Threads shall be in accordance with Screw Thread Standards for Federal Services, Handbook H28.
  - DIMENSIONS:** All dimensions are in inches.
  - HEAD DIMENSIONS:** For head dimensions see procurement specification.
  - UNTHREADED LENGTH:** Bolts too short for full thread length shall have threads extending over the full length. The distance from the underside of the head to the first complete (full form) thread, as measured with a ring thread gage, shall not exceed the maximum unthreaded length "N".
  - PART NUMBER:** The MS part number consists of the MS number, plus the dash number.  
Example: MS35763-203.
  - Referenced documents shall be of the issue in effect on date of invitations for bid.
  - For design feature purposes, this standard takes precedence over procurement documents referenced herein.
  - This bolt is covered by U.S. Patent Number 3342236 which expires 19 September 1984. The Government does not have a royalty free license under this patent. This bolt is known as a "Place Bolt" under this patent.

REVIEWER: AT, AV, GL, IS, NSA  
USER: EL, ME, EA, PA, WV, OS, MC, SH

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

TABLE III

GRADE 5-REFERENCE INFORMATION ONLY				
NOMINAL SIZE	THREADS PER INCH	PROOF LOAD LBS (MIN)	RECOMMENDED AXIAL LOAD (LBS)	*RECOMMENDED TIGHTENING TORQUE (FT-LBS)
.250	20	2700	2025	6.8
	28	3100	2325	9
.3125	18	4450	3338	15.8
	24	4950	3713	19.5
.375	16	6600	4950	27
	24	7450	5588	37.5
.4375	14	9050	6788	50
	20	10100	7575	59.5
.500	13	12050	9038	73
	20	13600	10163	87.5
.5625	12	15450	11588	97
	18	17250	12938	121
.625	11	19200	14400	150
	18	21750	16313	187.5
.750	10	28400	21300	265
	16	31700	23775	325.5
.875	9	36050	27038	383
	14	39700	29775	449
1.000	8	47250	35438	589
	12	51700	38775	690
1.250	7	71700	53775	1125
	12	79400	59475	1369

INACTIVE (SEE SHEET I)

APPROVED 16 AUG 1956 REVISED (A) 13 SEP 1966 (B) 19 JUN 1967 (C) 8 AUG 1969 (D) 15 MAY 1973 (E) FOR CHANGES SEE SHEET I.

P.A. WC Other Cust 82	TITLE BOLT, SELF-LOCKING, HEXAGON HEAD, STEEL, GRADE 5, UNC-2A AND UNF-2A	MILITARY STANDARD <b>MS35763</b>
PROCUREMENT SPECIFICATION MIL-B-45912	SUPERSEDES: BAQX1 thru BAQX1.5 and BARX1 thru BARX2	SHEET 4 OF 5

FED. SUP CLASS  
5306

TABLE IV - INTERCHANGEABILITY TABLE

Cadmium or zinc plated bolts covered by the dash numbers given in the original issue of this standard are canceled after 13 Sep 1966. The canceled bolts should be used for maintenance purposes until existing stock is depleted. Use only the superseding bolts for new design and replacement. Replacement shall be in accordance with this table.

DASH NUMBERS									
CANCELLED MS35763	NEW MS35763	CANCELLED MS35763	NEW MS35763	CANCELLED MS35763	NEW MS35763	CANCELLED MS35763	NEW MS35763	CANCELLED MS35763	NEW MS35763
3	803	77	877	152	952	452	1052	523	1123
4	804	78	878	153	953	453	1053	524	1124
5	805	79	879	154	954	454	1054	525	1125
7	807	82	882	155	955	455	1055	526	1126
8	808	83	883	156	956	456	1056	527	1127
9	809	84	884	157	957	457	1057	528	1128
10	810	86	886	158	958	458	1058	529	1129
11	811	87	887	159	959	459	1059	530	1130
12	812	88	888	160	960	460	1060	533	1133
13	813	89	889	161	961	461	1061	534	1134
14	814	90	890	179	979	464	1064	535	1135
17	817	91	891	180	980	465	1065	536	1136
18	818	92	892	181	981	466	1066	537	1137
19	819	93	893	182	982	468	1068	538	1138
21	821	94	894	183	983	469	1069	539	1139
22	822	95	895	184	984	470	1070	540	1140
23	823	96	896	185	985	471	1071	541	1141
24	824	97	897	186	986	472	1072	542	1142
25	825	100	900	187	987	473	1073	543	1143
26	826	102	902	188	988	474	1074	544	1144
27	827	103	903	189	989	475	1075	545	1145
28	828	104	904	403	1003	476	1076	546	1146
31	831	105	905	404	1004	477	1077	548	1148
32	832	106	906	405	1005	478	1078	550	1150
33	833	107	907	407	1007	479	1079	551	1151
35	835	108	908	408	1008	482	1082	552	1152
36	836	109	909	409	1009	483	1083	553	1153
37	837	110	910	410	1010	484	1084	554	1154
38	838	111	911	411	1011	486	1086	555	1155
39	839	112	912	412	1012	487	1087	556	1156
40	840	113	913	413	1013	488	1088	557	1157
41	841	114	914	414	1014	489	1089	558	1158
42	842	118	918	417	1017	490	1090	559	1159
46	846	119	919	418	1018	491	1091	560	1160
47	847	120	920	419	1019	492	1092	561	1161
48	848	121	921	421	1021	493	1093	577	1177
50	850	122	922	422	1022	494	1094	579	1179
51	851	123	923	423	1023	495	1095	580	1180
52	852	124	924	424	1024	496	1096	581	1181
53	853	125	925	425	1025	497	1097	582	1182
54	854	126	926	426	1026	500	1100	583	1183
55	855	127	927	427	1027	502	1102	584	1184
56	856	128	928	428	1028	503	1103	585	1185
57	857	129	929	431	1031	504	1104	586	1186
58	858	130	930	432	1032	505	1105	587	1187
59	859	134	934	433	1033	506	1106	588	1188
60	860	135	935	435	1035	507	1107	589	1189
61	861	136	936	436	1036	508	1108		
64	864	137	937	437	1037	509	1109		
65	865	138	938	438	1038	510	1110		
66	866	139	939	439	1039	511	1111		
68	868	140	940	440	1040	512	1112		
69	869	141	941	441	1041	513	1113		
70	870	142	942	442	1042	514	1114		
71	871	143	943	444	1044	516	1116		
72	872	144	944	446	1046	518	1118		
73	873	145	945	447	1047	519	1119		
74	874	146	946	448	1048	520	1120		
75	875	150	950	450	1050	521	1121		
76	876	151	951	451	1051	522	1122		

REVIEWER: AT, AV, GL, IS, NSA  
USER: EL, ME, EA, PA, WV, OS, MC, SH

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

## INACTIVE (SEE SHEET I)

P.A.	WC	TITLE	MILITARY STANDARD
Other Cust	62	BOLT, SELF-LOCKING, HEXAGON HEAD, STEEL, GRADE 5, UNC-2A AND UNF-2A	MS35763
PROCUREMENT SPECIFICATION MIL-B-45912		SUPERSEDES: BAQX1 thru BAQX1.5 and BARX1 thru BARX2	SHEET 5 OF 5

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 16 AUG 1956 REVISED (A) 13 SEP 1966 (B) 19 JUN 1967 (C) 8 AUG 1969 (D) 15 MAY 1973 (E) FOR CHANGES SEE SHEET I.