



TABLE I

NOMINAL SIZE		2	3°	4	5°	6	7°	8	9°	10	12	14	16	18
D SCREW DIA	BASIC	.086	.099	.112	.125	.138	.151	.164	.177	.190	.216	.242	.268	.294
	MAX	.090	.103	.116	.129	.142	.155	.168	.181	.194	.220	.246	.272	.298
	MIN	.079	.092	.105	.118	.131	.144	.157	.170	.183	.209	.235	.261	.287
A HEAD DIA	MAX SHARP	.172	.199	.225	.252	.279	.305	.332	.358	.385	.438	.491	.544	.597
	MIN SHARP	.156	.181	.207	.232	.257	.283	.308	.334	.359	.410	.461	.512	.563
	ABS MIN	.147	.171	.195	.220	.244	.268	.292	.316	.340	.389	.437	.485	.534
H HEAD HEIGHT	REF	.051	.059	.067	.075	.083	.091	.100	.108	.116	.132	.148	.164	.180
J SLOT WIDTH	MAX	.031	.035	.039	.043	.048	.048	.054	.054	.060	.067	.073	.075	.084
	MIN	.023	.027	.031	.035	.039	.039	.045	.045	.050	.056	.064	.064	.072
T SLOT DEPTH	MAX	.023	.027	.030	.034	.038	.041	.045	.049	.053	.060	.068	.075	.083
	MIN	.015	.017	.020	.022	.024	.027	.029	.032	.034	.039	.044	.049	.054
THREADS PER INCH		26	24	22	20	18	16	15	14	13	11	10	9	8

- NOTES:
- 1. **MATERIAL:** Carbon steel, 1010 thru 1022 or 1108 thru 1118 in accordance with QQ-S-631, QQ-S-634, QQ-S-637 or QQ-V-403.
 (E) Brass, alloy no. 260 or 268, quarter-hard in accordance with QQ-B-613 or QQ-B-626; or alloy no. 260 or 270, quarter-hard in accordance with QQ-V-321.
 - 2. **PROTECTIVE COATING:** Steel - Cadmium plated in accordance with QQ-P-416, Type II, Class J or MIL-C-81562, Type II, Class J; or zinc coated in accordance with QQ-Z-325, Type II, Class J or MIL-C-81562, Type II, Class J.
 (E) Brass - Plain, uncoated.
 - 3. **THREADS:** Maximum permissible variation in number of threads per inch shall be plus or minus 10 percent.
 - 5. **DIMENSIONS:** All dimensions are in inches.
 - 6. **PART NUMBER:** The MS part number consists of the MS number, plus the dash number.
 Example: MS35494-1.
 - 7. Referenced documents shall be of the issue in effect on date of invitations for bid.
 - 8. For design feature purposes, this standard takes precedence over procurement documents referenced herein.

(E) FOR CHANGES SEE SHEETS 1 AND 2.

P.A. VC	TITLE	MILITARY STANDARD
Other Cuts YD 82	SCREW, WOOD, FLAT HEAD, SLOTTED, STEEL AND BRASS	MS 35494
PROCUREMENT SPECIFICATION FF-S-111	SUPERSEDES AN550 in part, BQ31 series and BQ311.	SHEET 1 OF 3

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.

REVIEWER: AV, EA, IS, MI
USER: AT, MC, ME, MU, PA, SH, VT

APPROVED 4 DEC 1936 REVISED 12 NOV 1961 18 OCT 1966 1 JUN 1967 20 MAY 1968 15 AUG 1974

TABLE II

STEEL, CADMIUM OR ZINC PLATED

NOMINAL SIZE		2	3	4	5	6	7	8	9	10	12	14	16	18
L LENGTH	TOL.	DASH NO.	DASH NO.*	DASH NO.	DASH NO.*	DASH NO.	DASH NO.*	DASH NO.	DASH NO.*	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
.25		1		8										
.38	+ .00	2	901	9	20	31								
.50	- .03	3	902	10	21	32	44	56						
.62		4	903	11	22	33	45	57						
.75		5	904	12	23	34	46	58	69	83	98			
.88	+ .00		905	13	24	35	47	59	70	84	99			
1.00	- .05		906	14	25	36	48	60	71	85	100	113		
1.25				15	26	37	49	61	72	86	101	114	129	
1.50				16		38	50	62	73	87	102	115	130	142
1.75						39		63	74	88	103	116	131	
2.00	+ .00					40		64	75	89	104	117	132	144
2.25	- .06					41		65		90	105	118		
2.50						42		66	77	91	106	119	134	146
2.75								67		92	107	120	135	
3.00	+ .00							68		93	108	121	136	148
3.50	- .09									94	109	122	137	149
4.00											110	123	138	150
4.50												124	139	
5.00												125	140	

TABLE III

BRASS, PLAIN, UNCOATED

NOMINAL SIZE		2	3	4	5	6	7	8	9	10	12	14	16
L LENGTH	TOL	DASH NO.	DASH NO.*	DASH NO.	DASH NO.*	DASH NO.	DASH NO.*	DASH NO.	DASH NO.*	DASH NO.	DASH NO.	DASH NO.	DASH NO.
.25		201		208									
.38	+ .00	202	910	209	220	230							
.50	- .03	203	911	210	221	231	242	253					
.62		204	912	211	222	232	243	254	265	275			
.75		205	913	212	223	233	244	255	266	276	289		
.88	+ .00			213	224	234	245	256	267	277	290		
1.00	- .05			214	225	235	246	257	268	278	291	305	
1.25						236	247	258	269	279	292	306	
1.50						237	248	259	270	280	293	307	
1.75								260		281	294	308	
2.00	+ .00							261		282	295	309	318
2.25	- .06									283	296		
2.50										284	297	311	320
3.00	+ .00										299	313	322
3.50	- .09										300		

* NOTE: Crossed-out dash numbers (sizes 3, 5, 7 and 9) are INACTIVE FOR NEW DESIGN AFTER 15 August 1974.

INTERCHANGEABILITY

Steel, cadmium plated screws covered by dash numbers 501 thru 650 given in revision B of this standard are canceled after 1 June 1967. Brass, black oxide coated screws covered by dash numbers 701 thru 822 given in revision C of this standard and screws covered on AN550 in part are canceled after 20 May 1968. The canceled screws should be used for maintenance purposes until existing stocks are depleted. Use only the superseding screws for new design and engineering. Replacement shall be in accordance with Table IV (see sheet 3).

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.

REVIEWER: AV, EA, IS, MI
USER: AT, MC, ME, MU, PA, SH, WT

APPROVED 4 DEC 1956 REVISED 20 MAY 1968 FOR CHANGES SEE SHEETS 1 AND 2.

P.A. WC	TITLE	MILITARY STANDARD
Other Cust YD 82	SCREW, WOOD, FLAT HEAD, SLOTTED, STEEL AND BRASS	MS 35494
PROCUREMENT SPECIFICATION FF-S-111	SUPERSEDES: AN550 in part, BCQX series and BQCX1	SHEET 2 OF 3

TABLE IV - INTERCHANGEABILITY

FED. SUP CLASS
5305

PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
CANCELED	SUPSD BY	CANCELED	SUPSD BY	CANCELED	SUPSD BY	CANCELED	SUPSD BY	CANCELED	SUPSD BY
MSJ5494	MSJ5494	MSJ5494	MSJ5494	MSJ5494	MSJ5494	AN550	MSJ5494	AN550	MSJ5494
501	1	605	105	765	263	6-7	35	16-18	133
502	2	606	106	766	266	6-8	36	16-20	134
503	3	608	108	767	267	6-10	37	16-22	135
504	4	609	109	768	268	6-12	38	16-24	136
508	8	613	113	769	269	6-14	39	16-28	137
509	9	614	114	770	270	6-16	40	16-32	138
510	10	615	115	773	273	6-18	41	16-36	139
511	11	616	116	776	276	6-20	42	16-40	140
512	12	617	117	777	277	8-3	55	B2-2	201
513	13	618	118	778	278	8-4	56	B2-3	202
514	14	619	119	779	279	8-5	57	B2-4	203
515	15	621	121	780	280	8-6	58	B2-5	204
520	20	622	122	781	281	8-7	59	B2-6	205
521	21	623	123	782	282	8-8	60	B3-3	910
522	22	629	129	784	284	8-10	61	B3-4	911
523	23	630	130	789	289	8-12	62	B3-5	912
524	24	631	131	790	290	8-14	63	B3-6	913
525	25	632	132	791	291	8-16	64	B4-2	208
526	26	634	134	792	292	8-18	65	B4-3	209
531	31	636	136	793	293	8-20	66	B4-4	210
532	32	637	137	794	294	8-22	67	B4-5	211
533	33	638	138	795	295	8-24	68	B4-6	212
534	34	642	142	796	296	10-4	81	B4-7	213
535	35	644	144	797	297	10-5	82	B4-8	214
536	36	646	146	799	299	10-6	83	B5-3	220
537	37	648	148	805	305	10-7	84	B5-4	221
538	38	649	149	806	306	10-8	85	B5-5	222
544	44	650	150	807	307	10-10	86	B5-6	223
545	45	701	201	808	308	10-12	87	B5-7	224
546	46	702	202	809	309	10-14	88	B5-8	225
547	47	703	203	811	311	10-16	89	B6-3	230
548	48	704	204	813	313	10-18	90	B6-4	231
549	49	705	205	818	318	10-20	91	B6-5	232
550	50	708	208	820	320	10-22	92	B6-6	233
556	56	709	209	822	322	10-24	93	B6-7	234
557	57	710	210			10-28	94	B6-8	235
558	58	711	211			12-5	97	B6-10	236
559	59	712	212			12-6	98	B6-12	237
560	60	713	213			12-7	99	B8-4	253
561	61	714	214			12-8	100	B8-5	254
				AN550	MSJ5494				
562	62	720	220	2-2	1	12-10	101	B8-6	255
563	63	721	221	2-3	2	12-12	102	B8-7	256
564	64	722	222	2-4	3	12-14	103	B8-8	257
565	65	723	223	2-5	4	12-16	104	B8-10	258
569	69	724	224	2-6	5	12-18	105	B8-12	259
570	70	725	225	3-3	901	12-20	106	B8-14	260
571	71	730	230	3-4	902	12-22	107	B8-16	261
572	72	731	231	3-5	903	12-24	108	B10-5	275
573	73	732	232	3-6	904	12-28	109	B10-6	276
574	74	733	233	3-7	905	12-32	110	B10-7	277
575	75	734	234	3-8	906	14-6	111	B10-8	278
577	77	735	235	4-2	8	14-7	112	B10-10	279
583	83	736	236	4-3	9	14-8	113	B10-12	280
584	84	737	237	4-4	10	14-10	114	B10-14	281
585	85	742	242	4-5	11	14-12	115	B10-16	282
586	86	743	243	4-6	12	14-14	116	B10-18	283
587	87	744	244	4-7	13	14-16	117	B10-20	284
588	88	745	245	4-8	14	14-18	118	B12-6	289
589	89	746	246	4-10	15	14-20	119	B12-7	290
590	90	747	247	4-12	16	14-22	120	B12-8	291
591	91	749	249	5-3	20	14-24	121	B12-10	292
592	93	753	253	5-4	21	14-28	122	B12-12	293
593	94	754	254	5-5	22	14-32	123	B12-14	294
598	98	755	255	5-6	23	14-36	124	B12-16	295
599	99	756	256	5-7	24	14-40	125	B12-18	296
600	100	757	257	5-8	25	16-8	128	B12-20	297
601	101	758	258	6-3	31	16-10	129	B12-24	299
602	102	759	259	6-4	32	16-12	130	B12-28	300
603	103	760	260	6-5	33	16-14	131		
604	104	761	261	6-6	34	16-16	132		

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REVIEWER: AV, EA, IS, MI
 USER: AT, MC, ME, NU, PA, SH, VT

APPROVED 4 DEC 1956 REVISED 20 MAY 1968 (E) FOR CHANGES SEE SHEETS 1 AND 2.

P.A. VC	TITLE	MILITARY STANDARD
Other Comp 1D 82	SCREW, WOOD, FLAT HEAD, SLOTTED, STEEL AND BRASS	MS 35494
PROCUREMENT SPECIFICATION FF-S-111	SUPERSEDES: AN550 in part, BCC1 series and DQC11	SHEET J OF J