

REVIEWER: IS, MI, MU, NSA, AV, BS
USER: AT, ME, SH, MC, CG

This military standard has been approved by the Department of Defense and is mandatory 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.

HEAD MARKING		LENGTH		FED. SUP. CLASS					
99° TO 101°		H REF. R D		5305					
		GRIP 1/32, AN		M X 45° APPROX.					
		MAX-TWO IMPERFECT THREADS		ABS A MIN WITH MAX F					
		INCREASE OF .001 OVER D DIAMETER FROM THE POINT OF TANGENCY OF R AND THE SHANK WILL BE PERMISSIBLE		EDGES OF HEAD MAY BE ROUNDED OR STRAIGHT-SIDED					
TABLE I									
NOMINAL SIZE		#8	#10	1/4	5/16	3/8	7/16	1/2	9/16
THREADS PER INCH		32UNC-3A	32UNF-3A	28UNF-3A	24UNF-3A	24UNF-3A	20UNF-3A	20UNF-3A	18UNF-3A
D SCREW DIAMETER	MAX MIN	.164 .161	.189 .186	.249 .246	.3115 .3085	.374 .371	.4365 .4325	.499 .495	.5615 .5575
A HEAD DIAMETER	MAX SHARP MIN SHARP ABS MIN	.332 .319 .283	.385 .371 .327	.507 .491 .447	.635 .617 .569	.762 .742 .666	.890 .868 .805	1.017 .992 .919	1.145 1.118 1.036
F FLAT	MAX	.015	.016	.018	.020	.023	.026	.030	.034
H HEAD HEIGHT	REF	.068	.080	.106	.133	.159	.186	.213	.240
M POINT	MAX	.031	.031	.031	.047	.047	.047	.047	.047
R FILLET RADIUS	MAX MIN	.015 .005	.015 .005	.015 .005	.020 .010	.020 .010	.020 .010	.020 .010	.020 .010
TABLE II									
*MINIMUM TENSILE STRENGTH LOAD POUNDS									
NOMINAL SIZE	LOW-ALLOY STEEL	ALUMINUM ALLOY	CORROSION RESISTING STEEL						
Nr. 8-32UNC-3A	1750	870	1190						
Nr. 10-32UNF-3A	2500	1240	1700						
1/4-28UNF-3A	4550	2250	3090						
5/16-24UNF-3A	7250	3600	4930						
3/8-24UNF-3A	10980	5440	7460						
7/16-20UNF-3A	14640	7360	10090						
1/2-20UNF-3A	19990	9910	13590						
9/16-18UNF-3A	25350	12590	17260						
* Based on 125,000 PSI minimum tensile strength for low-alloy steel, 62,000 PSI for aluminum alloy and 85,000 PSI for corrosion resisting steel. Load pounds are calculated by the stress areas indicated in Screw-Thread Standards for Federal Services, Handbook H28.									
MATERIAL: Steel, Low-Alloy - Rockwell Hardness C26 to C32; MIL-S-6049 OR MIL-S-6050. Aluminum Alloy - Alloy 2024 of QQ-A-430 or alloy 2024, T4 temper of QQ-A-225. Steel, Corrosion Resisting - Fed. Std. No. 66, steel no. 302, 303, 304, 305 or 316 or equal to or interchangeable with 16-18 or 18-8 chromium nickel alloy steel (developed for cold heading).									
PROTECTIVE COATING OR TREATMENT: Cadmium Plated - QQ-P-416, Type II, Class 3. Anodize - MIL-A-8625, Type I or II. Passivate - QQ-P-35.									
MAGNETIC PERMEABILITY: These fasteners have a magnetic permeability of 2.0 maximum (air-1.0) for a field strength of H-200 oersteds using a magnetic indicator per MIL-I-17214.									
HEAT TREATMENT: For Steel, Low-Alloy - 125,000 PSI to 145,000 PSI tensile strength, MIL-H-6875. For QQ-A-430 Aluminum Alloy - 62,000 PSI tensile strength (min), MIL-H-6065.									
RECESS: The recess shall be in accordance with MS9006.									
THREADS: The threads shall be in accordance with MIL-S-7742.									
ECCENTRICITY: The conical surface of the head shall not be eccentric with the body more than a total runout of .005.									
LENGTH TOLERANCE: Tolerance on the lengths for Nr. 8-32, Nr. 10-32, 1/4-28 and 3/8-24 screws = +1/32, -1/64; for 5/16-24 and 9/16-18 screws = +3/64, -0; for 7/16-20 and 1/2-20 screws = +1/64, -1/32.									
HEAD MARKING: Low-Alloy Steel - One "X" required. Corrosion Resisting Steel - One "C" required. Aluminum Alloy - None required.									
DIMENSIONS: All dimensions are in inches unless otherwise specified.									
PART NUMBER: The MS part number consists of the MS number, plus the coded dash number. See sheet 2 and 3.									
NOTES: (1) For design feature purposes, this standard takes precedence over procurement documents referenced herein. (2) Referenced documents shall be of the issue in effect on date of invitations for bid.									
© FOR CHANGE SEE SHEET 1.									
P.A. WC Other Cust 82	TITLE SCREW, MACHINE, FLAT COUNTERSUNK HEAD, 100° STRUCTURAL, CROSS RECESSED, UNC-3A AND UNF-3A				MILITARY STANDARD MS24694				
PROCUREMENT SPECIFICATION MIL-S-7839	SUPERSEDES AN509				SHEET 1 OF 4				

This military standard has been approved by the Department of Defense and is mandatory 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: IS, MI, MU, NSA, AV, 85
USER: AT, ME, SH, MC, CC

TABLE III DASH NUMBERS AND CODES**												FED. SUP. CLASS 5305
NOMINAL SIZE	#8-32UNC-3A			#10-32UNF-3A			1/4-28UNF-3A			5/16-24UNF-3A		
LENGTH	GRIP	TOL.	DASH NR.	GRIP	TOL.	DASH NR.	GRIP	TOL.	DASH NR.	GRIP	TOL.	DASH NR.
9/32	3/32		1	7/64		46	9/64		92	11/64		137
11/32	3/32		2	7/64		47	9/64		93	11/64		138
13/32	3/32	+1/32	3	7/64	+1/32	48	9/64	+1/32	94	11/64	+1/32	139
15/32	3/32	-0	4	7/64	-0	49	9/64	-0	95	11/64	-0	140
17/32	3/32		5	7/64		50	9/64		96	11/64		141
19/32	5/32		6	7/64		51	9/64		97	11/64		142
21/32	7/32		7	3/16		52	9/64		98	11/64		143
23/32	9/32		8	1/4		53	3/16		99	7/32		144
25/32	11/32		9	5/16		54	1/4		100	9/32		145
27/32	13/32		10	3/8		55	5/16		101	11/32		146
29/32	15/32		11	7/16		56	3/8		102	13/32		147
31/32	17/32		12	1/2		57	7/16		103	15/32		148
1-1/32	19/32		13	9/16		58	1/2		104	17/32		149
1-3/32	21/32		14	5/8		59	9/16		105	19/32		150
1-5/32	23/32		15	11/16		60	5/8		106	21/32		151
1-7/32	25/32		16	3/4		61	11/16		107	23/32		152
1-9/32	27/32		17	13/16		62	3/4		108	25/32		153
1-11/32	29/32		18	7/8		63	13/16		109	27/32		154
1-13/32	31/32		19	15/16		64	7/8		110	29/32		155
1-15/32	1-1/32	+1/64	20	1		65	15/16		111	31/32		156
1-17/32	1-3/32	-1/64	21	1-1/16		66	1		112	1-1/32		157
1-19/32	1-5/32		22	1-1/8		67	1-1/16		113	1-3/32		158
1-21/32	1-7/32		23	1-3/16	+1/64	68	1-1/8	+1/64	114	1-5/32		159
1-23/32	1-9/32		24	1-1/4	-1/64	69	1-3/16	-1/64	115	1-7/32	+1/64	160
1-25/32	1-11/32		25	1-5/16		70	1-1/4		116	1-9/32	-1/64	161
1-27/32	1-13/32		26	1-3/8		71	1-5/16		117	1-11/32		162
1-29/32	1-15/32		27	1-7/16		72	1-3/8		118	1-13/32		163
1-31/32	1-17/32		28	1-1/2		73	1-7/16		119	1-15/32		164
2-1/32	1-19/32		29	1-9/16		74	1-1/2		120	1-17/32		165
2-3/32	1-21/32		30	1-5/8		75	1-9/16		121	1-19/32		166
2-5/32	1-23/32		31	1-11/16		76	1-5/8		122	1-21/32		167
2-7/32	1-25/32		32	1-3/4		77	1-11/16		123	1-23/32		168
2-9/32	1-27/32		33	1-13/16		78	1-3/4		124	1-25/32		169
2-11/32	1-29/32		34	1-7/8		79	1-13/16		125	1-27/32		170
2-13/32	1-31/32		35	1-15/16		80	1-7/8		126	1-29/32		171
2-15/32				2		81	1-15/16		127	1-31/32		172
2-17/32				2-1/16		82	2		128	2-1/32		173
2-19/32				2-1/8		83	2-1/16		129	2-3/32		174
2-21/32				2-3/16		84	2-1/8		130	2-5/32		175
2-23/32				2-1/4		85	2-3/16		131	2-7/32		176
2-25/32				2-5/16		86	2-1/4		132	2-9/32		177
2-27/32				2-3/8		87	2-5/16		133	2-11/32		178
2-29/32				2-7/16		88	2-3/8		134	2-13/32		179
2-31/32				2-1/2		89	2-7/16		135	2-15/32		180
3-1/32				2-9/16		90	2-1/2					

NOTE: For illustration, material, protective coating and other pertinent data, see sheet 1.

** DASH NUMBER CODE:

Add "S" before dash number for Cadmium Plated, Low-Alloy Steel Screw.

Add "A" before dash number for Anodized, Aluminum Alloy Screw.

Add "C" before dash number for Passivated, Corrosion Resisting Steel Screw.

EXAMPLES OF MS PART NUMBERS:

MS24694-S1 = #8-32UNC-3A Cadmium Plated, Low-Alloy Steel Screw, 9/32 inch long.

MS24694-A100 = 1/4-28UNF-3A Anodized, Aluminum Alloy Screw, 27/32 inch long.

MS24694-C250 = 7/16-20UNF-3A Passivated, Corrosion Resisting Steel Screw, 2-1/32 inches long.

P.A.	WC	TITLE	MILITARY STANDARD
Other Cont	82	SCREW, MACHINE, FLAT COUNTERSUNK HEAD, 100°, STRUCTURAL, CROSS RECESSED, UNC-3A AND UNF-3A	MS24694
PROCUREMENT SPECIFICATION MIL-S-7839	SUPERSEDES	AN509	SHEET 2 OF

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 5 AUG 60 REVISED 21 APR 67 6 NOV 68 FOR CHANGE SEE SHEET 1

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REVIEWER: JS, MI, ME, NSA, AV, RS
USER: AT, ME, SH, MC, CG

TABLE 111 (Cont) DASH NUMBERS AND CODES											FED. SUP CLASS 5305	
NOMINAL SIZE	3/8-24UNF-3A			7/16-20UNF-3A			1/2-20UNF-3A			9/16-18UNF-3A		
LENGTH	GRIP	TOL	DASH No.	GRIP	TOL	DASH No.	GRIP	TOL	DASH No.	GRIP	TOL	DASH No.
13/32	3/16		181									
15/32	3/16	+1/32	182	7/32		225	1/4		270			
17/32	3/16	-0	183	7/32		226	1/4		271	9/32		330
19/32	3/16		184	7/32		227	1/4		272	9/32		331
21/32	3/16		185	7/32	+1/32	228	1/4		273	9/32		332
23/32	3/16		186	7/32	-0	229	1/4		274	9/32		333
25/32	3/16		187	7/32		230	1/4	+1/32	275	9/32	+1/32	334
27/32	3/16		188	7/32		231	1/4	-0	276	9/32	-0	335
29/32	7/32		189	7/32		232	1/4		277	9/32		336
31/32	9/32		190	7/32		233	1/4		278	9/32		337
1-1/32	11/32		191	5/16		234	1/4		279	9/32		338
1-3/32	13/32		192	3/8		235	1/4		280	9/32		339
1-5/32	15/32		193	7/16		236	5/16		281	9/32		340
1-7/32	17/32		194	1/2		237	3/8		282	9/32		341
1-9/32	19/32		195	9/16		238	7/16		283	11/32		342
1-11/32	21/32		196	5/8		239	1/2		284	13/32		343
1-13/32	23/32		197	11/16		240	9/16		285	15/32		344
1-15/32	25/32		198	3/4		241	5/8		286	17/32		345
1-17/32	27/32		199	13/16		242	11/16		287	19/32		346
1-19/32	29/32		200	7/8		243	3/4		288	21/32		347
1-21/32	31/32		201	15/16		244	15/16		289	23/32		348
1-23/32	1-1/32		202	1		245	1		290	25/32		349
1-25/32	1-3/32		203	1-1/16	+1/64	246	15/16		291	27/32		350
1-27/32	1-5/32	-1/64	204	1-1/8	-1/64	247	1		292	29/32		351
1-29/32	1-7/32		205	1-3/16		248	1-1/16		293	31/32		352
1-31/32	1-9/32		206	1-1/4		249	1-1/8		294	1-1/32		353
2-1/32	1-11/32		207	1-5/16		250	1-3/16		295	1-3/32		354
2-3/32	1-13/32		208	1-3/8		251	1-1/4		296	1-5/32		355
2-5/32	1-15/32		209	1-7/16		252	1-5/16		297	1-7/32		356
2-7/32	1-17/32		210	1-1/2		253	1-3/8		298	1-9/32		357
2-9/32	1-19/32		211	1-9/16		254	1-7/16	+1/64	299	1-11/32	+1/64	358
2-11/32	1-21/32		212	1-5/8		255	1-1/2	-1/64	300	1-13/32	-1/64	359
2-13/32	1-23/32		213	1-11/16		256	1-9/16		301	1-15/32		360
2-15/32	1-25/32		214	1-3/4		257	1-5/8		302	1-17/32		361
2-17/32	1-27/32		215	1-13/16		258	1-11/16		303	1-19/32		362
2-19/32	1-29/32		216	1-7/8		259	1-3/4		304	1-21/32		363
2-21/32	1-31/32		217	1-15/16		260	1-13/16		305	1-23/32		364
2-23/32	2-1/32		218	2		261	1-7/8		306	1-25/32		365
2-25/32	2-3/32		219	2-1/16		262	1-15/16		307	1-27/32		366
2-27/32	2-5/32		220	2-1/8		263	2		308	1-29/32		367
2-29/32	2-7/32		221	2-3/16		264	2-1/16		309	1-31/32		368
2-31/32	2-9/32		222	2-1/4		265	2-1/8		310	2-1/32		369
3-1/32	2-11/32		223	2-5/16		266	2-3/16		311	2-3/32		370
3-3/32	2-13/32		224	2-3/8		267	2-1/4		312	2-5/32		371
3-5/32							2-5/16		313	2-7/32		372
3-7/32							2-3/8		314	2-9/32		373
3-9/32							2-7/16		315	2-11/32		374
3-11/32							2-1/2		316	2-13/32		375
3-13/32							2-9/16		317	2-15/32		376
3-15/32							2-5/8		318	2-17/32		377
3-17/32							2-11/16		319	2-19/32		378
3-19/32							2-3/4		320	2-21/32		379
3-21/32							2-13/16		321	2-23/32		380
3-23/32							2-7/8		322	2-25/32		381
3-25/32							2-15/16		323	2-27/32		382
3-27/32							3		324	2-29/32		383
3-29/32							3-1/16		325	2-31/32		384
3-31/32							3-1/8		326	3-1/32		385
4-1/32							3-3/16		327	3-3/32		386
4-3/32							3-1/4		328	3-5/32		387

REMAINDER FROM TABLE 111

REVISOR (A) 21 APR 67 (B) 6 NOV 68 (C) FOR CHANGE SEE SHEET 1.

NOTE: FOR ILLUSTRATION, MATERIAL, PROTECTIVE COATING AND OTHER PERTINENT DATA, SEE SHEET 1.
** FOR DASH NUMBER CODES, SEE SHEET 2.

P.A. WC Other Cust B2	TITLE SCREW, MACHINE, FLAT COUNTERSUNK HEAD, 100°, STRUCTURAL, CROSS RECESSED, UNC-3A AND UNF-3A	MILITARY STANDARD MS24694
PROCUREMENT SPECIFICATION MIL-S-7839	SUPERSEDES ANSO9	SHEET 3 OF

APPROVED 5 AUG 60 REVISED 21 APR 67 6 NOV 68 FOR CHANGE SEE SHEET 1.

REVIEWER: IS, MI, MU, NSA, AV, BS
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TABLE IV
INTERCHANGEABILITY - (Using Coded Dash Numbers)

FED. SUP. CLASS
5305

After 21 April 1967 screws given on AN509 are canceled, but their existing stock should be used for maintenance purposes until depleted. USE ONLY THE NEW MS24694 SCREWS FOR NEW DESIGN AND ENGINEERING.

- Codes for canceled and new dash numbers:
- (1) For cadmium plated, carbon steel screws: The following AN509 dash numbers are superseded by the following MS dash numbers with a prefix "S" added. Example: AN509-8R4 superseded by MS24694-S1.
 - (2) For anodized, aluminum alloy screws: AN dash numbers with a prefix "DD" superseded by MS dash numbers with a prefix "A". Example: AN509DD8R4 superseded by MS24694-A1.
 - (3) For passivated, corrosion resisting steel screws: AN dash numbers with a prefix "C" superseded by MS dash numbers with a prefix "C". Example: AN509C8R4 superseded by MS24694-C1.
 - (4) For AN509 part numbers inactive for design after 31 January 1952: Bronze screws, uncoated ("Z" before first dash number) and cadmium plated ("P" before first dash number) are canceled but have no replacements.
 - (5) For AN509 part numbers inactive for design after 17 February 1959: Optional design II cross recessed ("R" between first and second dash numbers) and slotted head screws ("-" between first and second dash numbers) are canceled and superseded by the appropriately coded MS dash number. Example: AN509-8R4 or AN509-8-4 superseded by MS24694-S1.

CANCELED AN509 DASH NO	NEW MS24694 DASH NO	CANCELED AN509 DASH NO	NEW MS24694 DASH NO	CANCELED AN509 DASH NO	NEW MS24694 DASH NO	CANCELED AN509 DASH NO	NEW MS24694 DASH NO	CANCELED AN509 DASH NO	NEW MS24694 DASH NO	CANCELED AN509 DASH NO	NEW MS24694 DASH NO
8R4	1	10R31	73	516R5	137	616R23	199	716R42	261	816R61	325
8R5	2	10R32	74	516R6	138	616R24	200	716R43	262	816R62	326
8R6	3	10R33	75	516R7	139	616R25	201	716R44	263	816R63	327
8R7	4	10R34	76	516R8	140	616R26	202	716R45	264	816R64	328
8R8	5	10R35	77	516R9	141	616R27	203	716R46	265	916R7	330
8R9	6	10R36	78	516R10	142	616R28	204	716R47	266	916R8	331
8R10	7	10R37	79	516R11	143	616R29	205	716R48	267	916R9	332
8R11	8	10R38	80	516R12	144	616R30	206	816R6	270	916R10	333
8R12	9	10R39	81	516R13	145	616R31	207	816R7	271	916R11	334
8R13	10	10R40	82	516R14	146	616R32	208	816R8	272	916R12	335
8R14	11	10R41	83	516R15	147	616R33	209	816R9	273	916R13	336
8R15	12	10R42	84	516R16	148	616R34	210	816R10	274	916R14	337
8R16	13	10R43	85	516R17	149	616R35	211	816R11	275	916R15	338
8R17	14	10R44	86	516R18	150	616R36	212	816R12	276	916R16	339
8R18	15	10R45	87	516R19	151	616R37	213	816R13	277	916R17	340
8R19	16	10R46	88	516R20	152	616R38	214	816R14	278	916R18	341
8R20	17	10R47	89	516R21	153	616R39	215	816R15	279	916R19	342
8R21	18	10R48	90	516R22	154	616R40	216	816R16	280	916R20	343
8R22	19	416R5	92	516R23	155	616R41	217	816R17	281	916R21	344
8R23	20	416R6	93	516R24	156	616R42	218	816R18	282	916R22	345
8R24	21	416R7	94	516R25	157	616R43	219	816R19	283	916R23	346
8R25	22	416R8	95	516R26	158	616R44	220	816R20	284	916R24	347
8R26	23	416R9	96	516R27	159	616R45	221	816R21	285	916R25	348
8R27	24	416R10	97	516R28	160	616R46	222	816R22	286	916R26	349
8R28	25	416R11	98	516R29	161	616R47	223	816R23	287	916R27	350
8R29	26	416R12	99	516R30	162	616R48	224	816R24	288	916R28	351
8R30	27	416R13	100	516R31	163	716R6	225	816R25	289	916R29	352
8R31	28	416R14	101	516R32	164	716R7	226	816R26	290	916R30	353
8R32	29	416R15	102	516R33	165	716R8	227	816R27	291	916R31	354
8R33	30	416R16	103	516R34	166	716R9	228	816R28	292	916R32	355
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10R13	55	416R31	118	516R49	181	716R24	243	816R43	307	916R47	370
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P.A. WC Other Cost 82	TITLE SCREW, MACHINE, FLAT COUNTERSUNK HEAD, 100°, STRUCTURAL, CROSS RECESSED, UNC-3A AND UNF-3A	MILITARY STANDARD MS24694
PROCUREMENT SPECIFICATION MIL-S-7839	SUPERSEDES AN509	SHEET 4 OF

DD FORM 672-1 (Continued)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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