

REVIEW: ME, EA, IS, AM, MI, AT
USER: SA, AS, QL, MU, YD, PA, WV, MC

NOMINAL SIZE		(#2) .086	(#4) .112	(#6) .138	(#8) .164	(#10) .190	(1/4) .250	(5/16) .3125	(3/8) .375
THREADS PER INCH, UNC-2A		56	40	32	32	24	20	18	16
D BODY DIAMETER	MAX	.0860	.1120	.1380	.1640	.1900	.2500	.3125	.3750
	MIN	.0717	.0925	.1141	.1399	.1586	.2127	.2712	.3287
A HEAD DIAMETER	MAX SHARP	.172	.225	.279	.332	.385	.507	.635	.762
	MIN SHARP	.156	.207	.257	.308	.359	.477	.600	.722
	ABS MIN	.147	.195	.244	.292	.340	.452	.568	.685
H HEAD HEIGHT	REF	.051	.067	.083	.100	.116	.153	.191	.230
H1 HEAD HEIGHT	MAX	.036	.047	.059	.070	.081	.107	.134	.161
	UNDERCUT	.028	.038	.048	.058	.068	.092	.116	.140
R RADIUS	MAX	.034	.045	.055	.066	.076	.100	.125	.150
R1 RADIUS-UNDERCUT	MAX	.013	.017	.021	.025	.029	.038	.047	.056
DRIVER SIZE		1	1	2	2	2	3	4	4
TENSILE STRENGTH (LBS) MIN		230	370	560	870	1090	1970	3250	4800
L LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
.125		1	10	21	36				
.188		2	11	22	37				
.250		3	12	23	38	51			
.312		4	13	24	39	52	66		
.375	+0	5	14	25	40	53	67	80	
.438	-.031	6	15	26	41	54	68	81	
.500		7	16	27	42	55	69	82	93
.625		8	17	28	43	56	70	83	94
.750		9	18	29	44	57	71	84	95
.875			19	30	45	58	72	85	96
1.000			20	31	46	59	73	86	97
1.250				32	47	60	74	87	98
1.500	+0			33	48	61	75	88	99
1.750	-.062			34	49	62	76	89	100
2.000				35	50	63	77	90	101
2.250						64	78	91	102
2.500	+0					65	79	92	103
2.750	-.094								104
3.000									105

NOTES:

- MATERIAL:** Aluminum Alloy (2024-T4) in accordance with QQ-A-225/6 having minimum ultimate tensile strength of 62,000 PSI.
- PROTECTIVE COATING:** Anodic Coating in accordance with MIL-A-8625 type 1 or 2, class 1.
- THREADS:** The threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H-28.
- THREAD LENGTH:** Screws 2.00 inches long and shorter shall have complete threads extending to within two threads of the head, or closer if applicable. Longer screws shall have a minimum thread length of 1.50 inches.
- RECESS:** The recess shall be in accordance with MS9006.
- DIMENSIONS:** All dimensions are in inches unless otherwise specified.
- UNDERCUT HEADS:** Screws above dotted lines shall have undercut heads.
- PART NUMBER:** The MS part number consists of the MS number, plus the dash number.
Example: MS35202-1.
- 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.

(C) ENTIRE STANDARD REVISED

P.A. WC	TITLE	MILITARY STANDARD
Other Cust 82	SCREW, MACHINE-FLAT COUNTERSUNK HEAD, 82°, CROSS-RECESSED, ALUMINUM ALLOY, ANODIC COATED, UNC-2A	MS35202
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES: MS35251, MS35358 in part, MS35363 in part and AN505 in part.	SHEET 1 OF 4

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, when available.

APPROVED 25 JUN 1953 REVISED (A) 15 NOV 1962 (B) 4 MAY 1965 (C) 14 JUN 1976

TABLE 11a. INTERCHANGEABILITY

The screws covered by the dash numbers given in MS35251 are cancelled after 15 November 1962. Use the dash numbers given in the preceding sheets. The cancelled screws cannot always replace the superseding screws and should be used until existing stocks are depleted. Use the superseding screws for design and replacement. Replacement shall be in accordance with this table.

CROSS REFERENCE OF PART NUMBERS

CANCELLED	SUPERSEDED BY	CANCELLED	SUPERSEDED BY	CANCELLED	SUPERSEDED BY
MS35251	MS35202	MS35251	MS35202	MS35251	MS35202
Dash Number	Dash Number	Dash Number	Dash Number	Dash Number	Dash Number
1	No replacement	61	No replacement	120	99
2	No replacement	62	No replacement	121	100
3	No replacement	63	No replacement	122	101
4	No replacement	64	No replacement	123	102
5	No replacement	65	No replacement	124	103
6	No replacement	66	51	125	104
7	No replacement	67	52	126	105
8	1	68	53	127	No replacement
9	2	69	54	128	No replacement
10	3	70	55	129	No replacement
11	4	71	56	130	No replacement
12	5	72	57	131	No replacement
13	6	73	58	132	No replacement
14	7	74	59	133	No replacement
15	8	75	60	134	No replacement
16	9	76	61	135	No replacement
17	No replacement	77	62	136	No replacement
18	10	78	63	137	No replacement
19	11	79	64	138	No replacement
20	12	80	65	139	No replacement
21	13	81	No replacement	140	No replacement
22	14	82	No replacement	141	No replacement
23	15	83	66	142	No replacement
24	16	84	67	143	No replacement
25	17	85	68	144	No replacement
26	18	86	69	145	No replacement
27	19	87	70	146	No replacement
28	20	88	71	147	No replacement
29	No replacement	89	72	148	No replacement
30	No replacement	90	73	149	No replacement
31	21	91	74	150	No replacement
32	22	92	75	151	No replacement
33	23	93	76	152	No replacement
34	24	94	77	153	No replacement
35	25	95	78	154	No replacement
36	26	96	79	155	No replacement
37	27	97	No replacement	156	No replacement
38	28	98	No replacement	157	No replacement
39	29	99	80	158	No replacement
40	30	100	81	159	No replacement
41	31	101	82	160	No replacement
42	32	102	83	161	No replacement
43	33	103	84	162	No replacement
44	34	104	85	163	No replacement
45	35	105	86	164	No replacement
46	36	106	87	165	No replacement
47	37	107	88	166	No replacement
48	38	108	89	167	No replacement
49	39	109	90	168	No replacement
50	40	110	91	169	No replacement
51	41	111	92	170	No replacement
52	42	112	No replacement	171	No replacement
53	43	113	No replacement	172	No replacement
54	44	114	93	173	No replacement
55	45	115	94	174	No replacement
56	46	116	95	175	No replacement
57	47	117	96	176	No replacement
58	48	118	97	177	No replacement
59	49	119	98	178	No replacement
60	50				

APPROVED 25 JUNE 53 REVISED (A) 15 NOV 1962 (B) 4 MAY 1965 (C) FOR CHANGES SEE SHEET 1.

P.A.	WC	TITLE	MILITARY STANDARD
Other Cust	62	SCREW, MACHINE-FLAT COUNTERSUNK HEAD, 82°, CROSS-RECESSED, ALUMINUM ALLOY, ANODIC COATED, UNC-2A	MS 35202
PROCUREMENT SPECIFICATION PP-S-92	SUPERSEDES: MS35251, MS35358 in part, MS35363 in part and AN505 in part.		SHEET 2 OF 4

TABLE IIB. - INTERCHANGEABILITY

Screws covered by the following dash numbers given in AN505 are inactivated after 4 May 1965. Use the superseding dash numbers as given. The inactivated screws can not always replace the superseding screws and should be used until existing stocks are depleted. Use only the superseding screws for design and replacement. Replacement shall be in accordance with this table.

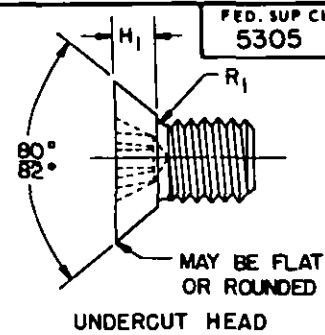
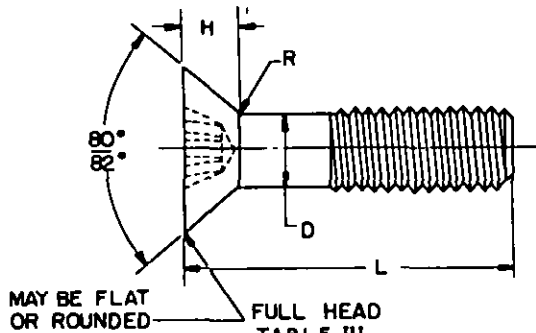
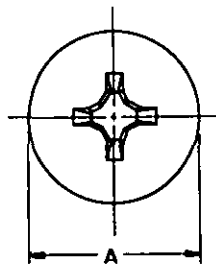
CROSS REFERENCE OF PART NUMBERS

INACTIVATED AN505	SUPERSEDED BY MS35202	INACTIVATED AN505	SUPERSEDED BY MS35202	INACTIVATED AN505	SUPERSEDED BY MS35202
Dash Numbers	Dash Numbers	Dash Numbers	Dash Numbers	Dash Numbers	Dash Numbers
DD2R3	2	DD8R7	41	DD416R18	No replacement
DD2R4	3	DD8R8	42	DD416R20	74
DD2R5	4	DD8R9	No replacement	DD416R22	No replacement
DD2R6	5	DD8R10	43	DD416R24	75
DD2R7	6	DD8R11	No replacement	DD416R26	No replacement
DD2R8	7	DD8R12	44	DD416R28	76
DD2R9	No replacement	DD8R13	No replacement	DD416R30	No replacement
DD2R10	8	DD8R14	45	DD416R32	77
DD2R11	No replacement	DD8R15	No replacement	DD416R34	No replacement
DD2R12	9	DD8R16	46	DD416R36	78
DD3R3	No replacement	DD8R18	No replacement	DD416R38	No replacement
thru	No replacement	DD8R20	47	DD416R40	79
DD3R16	No replacement	DD8R22	No replacement	DD416R42	No replacement
DD4R3	11	DD8R24	48	DD416R44	No replacement
DD4R4	12	DD8R26	No replacement	DD416R46	No replacement
DD4R5	13	DD8R28	49	DD416R48	No replacement
DD4R6	14	DD8R30	No replacement	DD516R8	82
DD4R7	15	DD8R32	50	DD516R9	No replacement
DD4R8	16	DD8R34	No replacement	DD516R10	83
DD4R9	No replacement	DD8R36	No replacement	DD516R11	No replacement
DD4R10	17	DD8R38	No replacement	DD516R12	84
DD4R11	No replacement	DD8R40	No replacement	DD516R13	No replacement
DD4R12	18	DD8R42	No replacement	DD516R14	85
DD4R13	No replacement	DD8R44	No replacement	DD516R15	No replacement
DD4R14	19	DD8R46	No replacement	DD516R16	86
DD4R15	No replacement	DD8R48	No replacement	DD516R18	No replacement
DD4R16	20	DD10R5	52	DD516R20	87
DD4R18	No replacement	DD10R6	53	DD516R22	No replacement
DD4R20	No replacement	DD10R7	54	DD516R24	88
DD4R22	No replacement	DD10R8	55	DD516R26	No replacement
DD4R24	No replacement	DD10R9	No replacement	DD516R28	89
DD5R3	No replacement	DD10R10	56	DD516R30	No replacement
thru	No replacement	DD10R11	No replacement	DD516R32	90
DD5R24	No replacement	DD10R12	57	DD516R34	No replacement
DD6R3	22	DD10R13	No replacement	DD516R36	91
DD6R4	23	DD10R14	58	DD516R38	No replacement
DD6R5	24	DD10R15	No replacement	DD516R40	92
DD6R6	25	DD10R16	59	DD516R42	No replacement
DD6R7	26	DD10R18	No replacement	DD516R44	No replacement
DD6R8	27	DD10R20	60	DD516R46	No replacement
DD6R9	No replacement	DD10R22	No replacement	DD516R48	No replacement
DD6R10	28	DD10R24	61	DD616R8	93
DD6R11	No replacement	DD10R26	No replacement	DD616R9	No replacement
DD6R12	29	DD10R28	62	DD616R10	94
DD6R13	No replacement	DD10R30	No replacement	DD616R11	No replacement
DD6R14	30	DD10R32	63	DD616R12	95
DD6R15	No replacement	DD10R34	No replacement	DD616R13	No replacement
DD6R16	31	DD10R36	64	DD616R14	96
DD6R18	No replacement	DD10R38	No replacement	DD616R15	No replacement
DD6R20	32	DD10R40	65	DD616R16	97
DD6R22	No replacement	DD10R42	No replacement	DD616R18	No replacement
DD6R24	33	DD10R44	No replacement	DD616R20	98
DD6R26	No replacement	DD10R46	No replacement	DD616R22	No replacement
DD6R28	34	DD10R48	No replacement	DD616R24	99
DD6R30	No replacement	DD416R5	66	DD616R26	No replacement
DD6R32	35	DD416R6	67	DD616R28	100
DD6R34	No replacement	DD416R7	68	DD616R30	No replacement
DD6R36	No replacement	DD416R8	69	DD616R32	101
DD6R38	No replacement	DD416R9	No replacement	DD616R34	No replacement
DD6R40	No replacement	DD416R10	70	DD616R36	102
DD6R42	No replacement	DD416R11	No replacement	DD616R38	No replacement
DD6R44	No replacement	DD416R12	71	DD616R40	103
DD6R46	No replacement	DD416R13	No replacement	DD616R42	No replacement
DD6R48	No replacement	DD416R14	72	DD616R44	104
DD8R4	38	DD416R15	No replacement	DD616R46	No replacement
DD8R5	39	DD416R16	73	DD616R48	105
DD8R6	40				

APPROVED 25 JUNE 53 REVISED 15 NOV 1962 (B) 4 MAY 1965 (C) FOR CHANGES SEE SHEET I.

P.A. VC	TITLE	MILITARY STANDARD
Other Cost	SCREW, MACHINE-FLAT COUNTERSUNK HEAD, 82° CROSS-RECESSED, ALUMINUM ALLOY, ANODIC COATED,	MS 35202
62	UNC-2A	
PROCUREMENT SPECIFICATION	SUPERSEDED: MS35251, MS35358 in part, MS35363 in part	SHEET 3 OF 4
FF-S-92	and AN505 in part.	

REVIEW: ME, EA, IS, AV, ML, AT
USER: SN, AS, GL, MJ, YO, PA, WV, MC



FULL HEAD
TABLE III
METRIC TRANSLATION OF TABLE I

NOMINAL SIZE	MM	2.184	2.845	3.505	4.166	4.826	6.350	7.938	9.525
PITCH		.45	.64	.79	.79	1.06	1.27	1.41	1.59
D BODY DIAMETER	MAX MIN	2.184 1.821	2.845 2.350	3.505 2.898	4.166 3.553	4.826 4.028	6.350 5.403	7.938 6.888	9.525 8.349
A HEAD DIAMETER	MAX SHARP MIN SHARP ABS MIN	4.369 3.962 3.734	5.715 5.258 4.953	7.087 6.528 6.198	8.433 7.823 7.417	9.779 9.119 8.636	12.878 12.116 11.481	16.129 15.240 14.427	19.355 18.339 17.399
H HEAD HEIGHT	REF	1.295	1.702	2.108	2.540	2.946	3.886	4.851	5.842
H1 HEAD HEIGHT UNDERCUT	MAX MIN	.914 .711	1.194 .965	1.499 1.219	1.778 1.473	2.057 1.727	2.718 2.337	3.404 2.946	4.089 3.556
R RADIUS	MAX	.864	1.143	1.397	1.676	1.930	2.540	3.175	3.810
R1 RADIUS UNDERCUT	MAX	.330	.432	.533	.635	.737	.965	1.194	1.422
DRIVER SIZE		1	1	2	2	2	3	4	4
TENSILE STRENGTH, KN-MIN		1.030	1.658	2.510	3.899	4.885	8.829	14.567	21.514
L LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
3.175		1	10	21	36				
4.775		2	11	22	37				
6.350		3	12	23	38	51			
7.925		4	13	24	39	52	66		
9.525	+0	5	14	25	40	53	67	80	
11.125	-.787	6	15	26	41	54	68	81	
12.700		7	16	27	42	55	69	82	93
15.875		8	17	28	43	56	70	83	94
19.050		9	18	29	44	57	71	84	95
22.225			19	30	45	58	72	85	96
25.400			20	31	46	59	73	86	97
31.750				32	47	60	74	87	98
38.100	+0			33	48	61	75	88	99
44.450	-1.575			34	49	62	76	89	100
50.800				35	50	63	77	90	101
57.150						64	78	91	102
63.500	+0					65	79	92	103
69.850	-2.388								104
76.200									105

NOTE: All dimensions are in millimetres (mm), unless otherwise specified, and are based on an approximate conversion factor of 25.4mm equals one inch.

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APPROVED 25 JUN 1953 REVISED (A) 15 NOV 1962 (B) 4 MAY 1965 (C) FOR CHANGES SEE SHEET 1.

P.A. WC Other Cust 82	TITLE SCREW, MACHINE-FLAT COUNTERSUNK HEAD, 82°, CROSS-RECESSED, ALUMINUM ALLOY, ANODIC COATED, UNC-2A	MILITARY STANDARD MS 35202
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES: MS35251, MS35358 in part, MS35363 in part and AN505 in part.	SHEET 4 OF 4