

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

NOMINAL SIZE	(#2)	(#4)	(#6)	(#8)	(#10)	(1/4)	(5/16)	(3/8)		
THREADS PER INCH, UNC-2A	56	40	32	32	24	20	18	16		
D BODY DIAMETER	MAX .0860 MIN .0717	.1120 .0925	.1380 .1141	.1640 .1399	.1900 .1586	.2500 .2127	.3125 .2712	.3750 .3287		
A HEAD DIAMETER	MAX SHARP .172 MIN SHARP .156 ABS MIN .147	.225 .207 .195	.279 .257 .244	.332 .308 .292	.385 .359 .340	.507 .477 .452	.635 .600 .568	.762 .722 .685		
H HEAD HEIGHT	REF .051	.067	.083	.100	.116	.153	.191	.230		
H1 HEAD HEIGHT	MAX .036 UNDERCUT MIN .028	.047 .038	.059 .048	.070 .058	.081 .068	.107 .092	.134 .116	.161 .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.		
.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 -.031	5	14	25	40	53	67	80		
.438		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 -.062			33	48	61	75	88	99	
1.750				34	49	62	76	89	100	
2.000				35	50	63	77	90	101	
2.250						64	78	91	102	
2.500		+0 -.094					65	79	92	103
2.750									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.

ENTIRE STANDARD REVISED

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

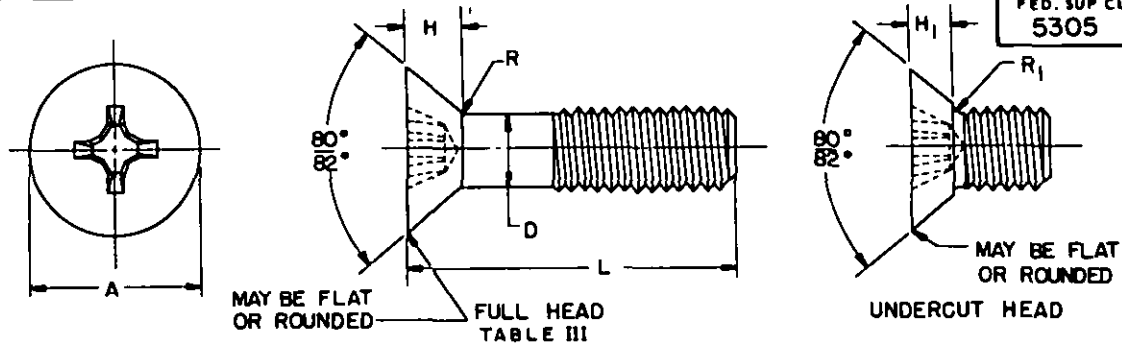
INACTIVATED AN505	SUPERSEDED BY MS35202	INACTIVATED AN505	SUPERSEDED BY MS35202	INACTIVATED AN505	SUPERSEDED BY MS35202
Dash Numbers	Dash Numbers	Dash Numbers	Dash Numbers	Dash Numbers	Dash Numbers
DD2R3	2	DD8R7	41	DD41GR18	No replacement
DD2R4	3	DD8R8	42	DD41GR20	74
DD2R5	4	DD8R9	No replacement	DD41GR22	No replacement
DD2R6	5	DD8R10	43	DD41GR24	75
DD2R7	6	DD8R11	No replacement	DD41GR26	No replacement
DD2R8	7	DD8R12	44	DD41GR28	76
DD2R9	No replacement	DD8R13	No replacement	DD41GR30	No replacement
DD2R10	8	DD8R14	45	DD41GR32	77
DD2R11	No replacement	DD8R15	No replacement	DD41GR34	No replacement
DD2R12	9	DD8R16	46	DD41GR36	78
DD3R3	No replacement	DD8R18	No replacement	DD41GR38	No replacement
thru	No replacement	DD8R20	47	DD41GR40	79
DD3R16	No replacement	DD8R22	No replacement	DD41GR42	No replacement
DD4R3	11	DD8R24	48	DD41GR44	No replacement
DD4R4	12	DD8R26	No replacement	DD41GR46	No replacement
DD4R5	13	DD8R28	49	DD41GR48	No replacement
DD4R6	14	DD8R30	No replacement	DD51GR8	82
DD4R7	15	DD8R32	50	DD51GR9	No replacement
DD4R8	16	DD8R34	No replacement	DD51GR10	83
DD4R9	No replacement	DD8R36	No replacement	DD51GR11	No replacement
DD4R10	17	DD8R38	No replacement	DD51GR12	84
DD4R11	No replacement	DD8R40	No replacement	DD51GR13	No replacement
DD4R12	18	DD8R42	No replacement	DD51GR14	85
DD4R13	No replacement	DD8R44	No replacement	DD51GR15	No replacement
DD4R14	19	DD8R46	No replacement	DD51GR16	86
DD4R15	No replacement	DD8R48	No replacement	DD51GR18	No replacement
DD4R16	20	DD1OR5	52	DD51GR20	87
DD4R18	No replacement	DD1OR6	53	DD51GR22	No replacement
DD4R20	No replacement	DD1OR7	54	DD51GR24	88
DD4R22	No replacement	DD1OR8	55	DD51GR26	No replacement
DD4R24	No replacement	DD1OR9	No replacement	DD51GR28	89
DD5R3	No replacement	DD1OR10	56	DD51GR30	No replacement
thru	No replacement	DD1OR11	No replacement	DD51GR32	90
DD5R24	No replacement	DD1OR12	57	DD51GR34	No replacement
DD6R3	22	DD1OR13	No replacement	DD51GR36	91
DD6R4	23	DD1OR14	58	DD51GR38	No replacement
DD6R5	24	DD1OR15	No replacement	DD51GR40	92
DD6R6	25	DD1OR16	59	DD51GR42	No replacement
DD6R7	26	DD1OR18	No replacement	DD51GR44	No replacement
DD6R8	27	DD1OR20	60	DD51GR46	No replacement
DD6R9	No replacement	DD1OR22	No replacement	DD51GR48	No replacement
DD6R10	28	DD1OR24	61	DD61GR8	93
DD6R11	No replacement	DD1OR26	No replacement	DD61GR9	No replacement
DD6R12	29	DD1OR28	62	DD61GR10	94
DD6R13	No replacement	DD1OR30	No replacement	DD61GR11	No replacement
DD6R14	30	DD1OR32	63	DD61GR12	95
DD6R15	No replacement	DD1OR34	No replacement	DD61GR13	No replacement
DD6R16	31	DD1OR36	64	DD61GR14	96
DD6R18	No replacement	DD1OR38	No replacement	DD61GR15	No replacement
DD6R20	32	DD1OR40	65	DD61GR16	97
DD6R22	No replacement	DD1OR42	No replacement	DD61GR18	No replacement
DD6R24	33	DD1OR44	No replacement	DD61GR20	98
DD6R26	No replacement	DD1OR46	No replacement	DD61GR22	No replacement
DD6R28	34	DD1OR48	No replacement	DD61GR24	99
DD6R30	No replacement	DD41GR5	66	DD61GR26	No replacement
DD6R32	35	DD41GR6	67	DD61GR28	100
DD6R34	No replacement	DD41GR7	68	DD61GR30	No replacement
DD6R36	No replacement	DD41GR8	69	DD61GR32	101
DD6R38	No replacement	DD41GR9	No replacement	DD61GR34	No replacement
DD6R40	No replacement	DD41GR10	70	DD61GR36	102
DD6R42	No replacement	DD41GR11	No replacement	DD61GR38	No replacement
DD6R44	No replacement	DD41GR12	71	DD61GR40	103
DD6R46	No replacement	DD41GR13	No replacement	DD61GR42	No replacement
DD6R48	No replacement	DD41GR14	72	DD61GR44	104
DD8R4	38	DD41GR15	No replacement	DD61GR46	No replacement
DD8R5	39	DD41GR16	73	DD61GR48	105
DD8R6	40				

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

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



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		
H ₁ 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		
R ₁ 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 4.775 6.350 7.925		1 2 3 4	10 11 12 13	21 22 23 24	36 37 38 39	51 52	66				
9.525 11.125 12.700 15.875		+0 -1.787	5 6 7 8	14 15 16 17	25 26 27 28	40 41 42 43	53 54 55 56	67 68 69 70	80 81 82 83	93 94	
19.050 22.225 25.400			+0 -1.575	9	18 19 20	29 30 31	44 45 46	57 58 59	71 72 73	84 85 86	95 96 97
31.750				+0 -2.388			32	47	60	74	87
38.100 44.450 50.800						33 34 35	48 49 50	61 62 63	75 76 77	88 89 90	99 100 101
57.150							64	78	91	102	
63.500 69.850 76.200						65	79	92	103 104 105		

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
	PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES: MS35251, MS35358 in part, MS35363 in part and ANS05 in part.