



User activities:
ARMY-RE
NAVY-MC

Review activities:
ARMY - AT, AV, EA, MI
AIR FORCE - B2
DLA - IS
NSA - NS

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D NOMINAL SIZE		.060	.086	.112	.136	.164
THREADS PER INCH		80 UNF	64 UNF	48 UNF	40 UNF	36 UNF
D1 BODY DIAMETER	MAX	.0600	.0860	.1120	.1380	.1640
	MIN	.0496	.0733	.0954	.1184	.1424
A HEAD DIAMETER	MAX	.116	.167	.219	.270	.322
	MIN	.104	.155	.205	.256	.306
H HEAD HEIGHT	MAX	.044	.062	.080	.097	.115
	MIN	.036	.053	.070	.087	.105
P HEAD RADIUS	MIN	.005	.010	.010	.015	.015
F FILLET RADIUS	MAX	.009	.013	.017	.021	.025
DRIVER SIZE		0	1	1	2	2
** MINIMUM TENSILE STRENGTH LOAD LBS.		140	310	530	810	1,180

L	LENGTH	TOLERANCE	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER
THREADED TO WITHIN A DISTANCE OF NOT LESS THAN 2 THREADS OF THE BEARING SURFACE OF THE HEAD	1/8		120	1	11	24	39
	3/16		121	2	12	25	40
	1/4		122	3	13	26	41
	5/16		123	4	14	27	42
	3/8	+0 -1/32	124	5	15	28	43
	7/16		125	6	16	29	44
	1/2		126	7	17	30	45
	5/8			8	18	31	46
	3/4			9	19	32	47
	7/8			10*	20	33	48
	1				21	34	49
	1-1/4				22*	35	50
1-1/2	+0 -1/16			23*	36	51	
1 3/4					37	52	
2					38	53	
MINIMUM COMPLETE THREAD LENGTH OF 1-3/4	2-1/4	+0 -3/32					54*
	2-1/2						55*
	2-3/4						56*
	3						57*

* INDICATES MANUFACTURER'S NON-STOCK PRODUCTION ITEMS.
** BASED ON 80,000 PSI MINIMUM TENSILE STRENGTH. LOAD POUNDS ARE CALCULATED BY THE STRESS AREAS INDICATED IN FED-STD-H28.

REQUIREMENTS:-

- MATERIAL:** STEEL, CORROSION-RESISTING, 300 SERIES AS SPECIFIED IN QQ-S-763 AND FED-STD-66, COMPOSITION 304 OR 316 OR EQUAL TO OR INTERCHANGEABLE WITH 16:16 OR 18:8 CHROMIUM-NICKEL ALLOY STEEL.
- PROTECTIVE COATING OR TREATMENT:** CLEANED AND DESCALED IN ACCORDANCE WITH ASTM A380-78. BLACK OXIDE COATING IN ACCORDANCE WITH PROCUREMENT SPECIFICATION (WHEN BLACK OXIDE COATING IS REQUIRED, THE DASH NUMBER SHALL BE FOLLOWED BY A "B").
- MAGNETIC PERMEABILITY:** THE SCREW SHALL MEET THE MAGNETIC PERMEABILITY REQUIREMENTS OF THE PROCUREMENT SPECIFICATION.
- THREADS:** THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/2.
- RECESS:** THE RECESS SHALL BE IN ACCORDANCE WITH MS9006.
- PART NUMBER:** THE MS PART NUMBER CONSISTS OF THE MS NUMBER PLUS THE DASH NUMBER AND CODE LETTER IF APPLICABLE (SEE REQ. 2).
EXAMPLE: MS51958-45; CLEANED AND DESCALED.
MS51958-45B; BLACK OXIDE COATED.

NOTES:-

- DIMENSIONS:** ALL DIMENSIONS ARE IN INCHES.
- REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS, OR REQUEST FOR PROPOSAL EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.
- FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

(C) ENTIRE STANDARD REVISED

P. A. AR Other Cont AS 99	INTERNATIONAL INTEREST	TITLE SCREW, MACHINE PAN-HEAD, CROSS-RECESSED, CORROSION RESISTING STEEL, UNF-2A	MILITARY STANDARD MS 51958
	PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES: MS35217, MS35234 AND IN PART: MS35357, MS35359 THRU MS35362, MS35364 THRU MS35366, AN520 AND AN526.	PAGE 1 OF 1

APPROVED 17 DEC 63
REVISED (A) 16 DEC 1968
B 7 APR 1971 C 11 FEB 83

FED. SUP CLASS
5305

User activities:
ARMY-WE
NAVY-MC

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D	NOMINAL SIZE		.190	.250	.3125	.375	
	THREADS PER INCH		32UNF	28UNF	24UNF	24UNF	
D ₁	BODY DIAMETER	MAX	.1900	.2500	.3125	.3750	
		MIN	.1658	.2225	.2806	.3430	
A	HEAD DIAMETER	MAX	.373	.492	.615	.740	
		MIN	.357	.473	.594	.716	
H	HEAD HEIGHT	MAX	.133	.175	.218	.261	
		MIN	.122	.162	.203	.244	
P	HEAD RADIUS	MIN	.020	.035	.040	.040	
R	FILLET RADIUS	MAX	.029	.038	.047	.056	
	DRIVER SIZE		2	3	4	4	
**	MINIMUM TENSILE STRENGTH LOAD LBS.		1,600	2,910	4,640	7,020	
L	LENGTH	TOLERANCE	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	
THREADED TO WITHIN A DISTANCE OF NOT LESS THAN 2 THREADS OF THE BEARING SURFACE OF THE HEAD	1/8	+0	58*	76			
	3/16						
	1/4						
	5/16						
	3/8						
	7/16						
	1/2	-1/32	61	77	92	107	
	5/8		62	78	93		
	3/4		63	79	94		
			64	80	95		
			65	81	96		
	7/8		66	82	97		109
	1		67	83	98		110
	1-1/4		68	84	99		111
			69	85	100		112
70		86	101	113			
1-3/4	+0	71	87	102	114		
2		72	88	103	115		
2-1/4		73	89	104	116		
	74*	90*	105*	117			
	75*	91*	106*	118			
MINIMUM COMPLETE THREAD LENGTH OF 1-3/4	3	-3/32	76*	92*	108*	119	

* Indicates manufacturer's non-stock production items.
 ** Based on 80,000 PSI minimum tensile strength. Load pounds are calculated by the stress areas indicated in FED-STD-H28.
 NOTE: For Applicable Requirements and Notes, See page 1.

APPROVED 17 DEC 63 REVISED C FOR CHANGES SEE PAGES 1, 2, 3 AND 4

P. A. AR Other Cost AS 99	INTERNATIONAL INTEREST	TITLE SCREW, MACHINE-PAN HEAD, CROSS RECESSED, CORROSION RESISTING STEEL, UNF-2A	MILITARY STANDARD MS 51958
PROCUREMENT SPECIFICATION	SUPERSEDES: MS35217, MS35234 AND IN PART: MS35357, MS35359 THRU MS35362, MS35364 THRU MS35366, AN520 AND AN526.		PAGE 2 OF 4

INTERCHANGEABILITY TABLE

FED. SUP CLASS
5305

The screws covered by the dash numbers given in MS35217, MS35234, AN520 in part and AN526 in part, are cancelled; inactivated after the dates indicated or the documents. Use the dash numbers given in the preceding sheets. The cancelled screws cannot always replace the new screws and should be used until existing stocks are depleted. Use only the new screws for design and replacement. Replacement shall be in accordance with this table.

CROSS REFERENCE OF PART NUMBERS

CANCELLED

NEW

MS35234	MS35217	AN520	AN526	MS51958
DASH NUMBER				DASH NUMBER
1	1	COR2 thru C1R8	CO-2 thru C1-8	No Replacement
2	2	C2R3	C2-3	1
3	3	C2R4	C2-4	2
4	4	C2R5	C2-5	3
5	5	C2R6	C2-6	4
6	6	C2R7	C2-7	5
7	7	C2R8	C2-8	6
8	8	C2R10	C2-10	7
9	9	C2R12	C2-12	8
10				9
11				10
11	10	C3R3 thru C3R12	C3-3 thru C3-12	No Replacement
12	11	C4R3	C4-3	11
13	12	C4R4	C4-4	12
14	13	C4R5	C4-5	13
15	14	C4R6	C4-6	14
16	15	C4R7	C4-7	15
17	16	C4R8	C4-8	16
18	17	C4R10	C4-10	17
19	18	C4R12	C4-12	18
20	19	C4R14	C4-14	19
21	20	C4R16	C4-16	20
22		C4R18	C4-18	21
23		C4R20	C4-20	No Replacement
		C4R22	C4-22	22
		C4R24	C4-24	No Replacement
		C4R26	C4-26	23
		C4R28	C4-28	No Replacement
24	21	C5R4 thru C5R28	C5-4 thru C5-28	No Replacement
25	22			24
26	23	C6R4	C6-4	25
27	24	C6R5	C6-5	26
28	25	C6R6	C6-6	27
29	26	C6R7	C6-7	28
30	27	C6R8	C6-8	29
31				30
32	28	C6R10	C6-10	No Replacement
33	29	C6R12	C6-12	31
34	30	C6R14	C6-14	32
35	31	C6R16	C6-16	33
		C6R18	C6-18	34
36	32	C6R20	C6-20	No Replacement
37	33	C6R22	C6-22	35
38	34	C6R24	C6-24	No Replacement
		C6R26	C6-26	36
		C6R28	C6-28	No Replacement
		C6R30	C6-30	37
		C6R32	C6-32	No Replacement
		C6R36	C6-36	38
		C6R40	C6-40	No Replacement
39	36			39
40	37			40
41	38	C8R4	C8-4	41
42	39	C8R5	C8-5	42
43	40	C8R6	C8-6	43
44	41	C8R7	C8-7	44
45	42	C8R8	C8-8	45
46	43	C8R10	C8-10	No Replacement
47	44	C8R12	C8-12	46
48	45	C8R14	C8-14	47
49	46	C8R16	C8-16	48
		C8R18	C8-18	49
50	47	C8R20	C8-20	No Replacement
		C8R22	C8-22	50
		C8R24	C8-24	No Replacement
51	48	C8R26	C8-26	51
				No Replacement

(CONTINUED ON PAGE 4)

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FOR CHANGES SEE PAGES 1, 2, 3 AND 4
REVISED
12 DEC 65
APPROVED

P. A. AR	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
Other Cust AS 99		SCREW, MACHINE PAN HEAD CROSS RECESSED, CORROSION RESISTING STEEL, UNF 2A	MS 51958
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES MS35217, MS35234 and in part: MS35357, MS35359 thru MS35362, MS35364 thru MS35366, AN520 and AN526.		PAGE 3 OF 4

INTERCHANGEABILITY TABLE (Continued)						FED. SUP. CLASS 5305
CROSS REFERENCE OF PART NUMBERS						
CANCELLED						NEW
MS35234	MS35217	ANS20		ANS26		MS51958
DAS - NUMBER						DAS - NUMBER
52	49	C8F28	C8-28	C836R28	C836-28	52
53	50	C8R30	C8-30	C836R30	C836-30	No Replacement
54		C8F32	C8-32	C836R32	C836-32	53
55		C8F36	C8-36	C836R36	C836-36	54
56		C8R40	C8-40	C836R40	C836-40	55
57		C8R44	C8-44	C836R44	C836-44	56
58		C8R48	C8-48	C836R48	C836-48	57
59	51	C10R4	C10-4	C1032R4	C1032-4	58
60	52	C10R5	C10-5	C1032R5	C1032-5	59
61	53	C10R6	C10-6	C1032R6	C1032-6	60
62	54	C10R7	C10-7	C1032R7	C1032-7	61
63	55	C10R8	C10-8	C1032R8	C1032-8	62
64	56	C10R10	C10-10	C1032R9	C1032-9	63
65	57	C10R12	C10-12	C1032R10	C1032-10	No Replacement
66	58	C10R14	C10-14	C1032R12	C1032-12	64
67	59	C10R16	C10-16	C1032R14	C1032-14	65
68	60	C10R18	C10-18	C1032R16	C1032-16	66
69	61	C10R20	C10-20	C1032R18	C1032-18	No Replacement
70	62	C10R22	C10-22	C1032R20	C1032-20	67
71	63	C10R24	C10-24	C1032R22	C1032-22	No Replacement
72	64	C10R26	C10-26	C1032R24	C1032-24	68
73	65	C10R28	C10-28	C1032R26	C1032-26	No Replacement
74		C10R30	C10-30	C1032R28	C1032-28	69
75		C10R32	C10-32	C1032R26	C1032-26	No Replacement
76	66	C10R36	C10-36	C1032R30	C1032-30	70
77	67	C10R40	C10-40	C1032R32	C1032-32	No Replacement
78	68	C10R44	C10-44	C1032R36	C1032-36	71
79	69	C10R48	C10-48	C1032R40	C1032-40	72
80	70	C416R6	C416-6	C1032R44	C1032-44	73
81	71	C416R7	C416-7	C1032R48	C1032-48	74
82	72	C416R8	C416-8			75
83	73	C416R10	C416-10	C428R6	C428-6	76
84	74	C416R12	C416-12	C428R7	C428-7	77
85	75	C416R14	C416-14	C428R8	C428-8	78
86	76	C416R16	C416-16	C428R9	C428-9	79
87	77	C416R18	C416-18	C428R10	C428-10	No Replacement
88	78	C416R20	C416-20	C428R12	C428-12	80
89	79	C416R22	C416-22	C428R14	C428-14	81
90	80	C416R24	C416-24	C428R16	C428-16	82
91	81	C416R26	C416-26	C428R18	C428-18	83
92	82	C416R28	C416-28	C428R20	C428-20	No Replacement
93	83	C416R30	C416-30	C428R22	C428-22	84
94	84	C416R32	C416-32	C428R24	C428-24	No Replacement
95	85	C416R36	C416-36	C428R26	C428-26	85
96	86	C416R40	C416-40	C428R28	C428-28	No Replacement
97	87	C416R44	C416-44	C428R30	C428-30	86
98	88	C416R48	C416-48	C428R32	C428-32	No Replacement
99	89			C428R36	C428-36	87
100	90			C428R40	C428-40	88
101	91			C428R44	C428-44	89
102	92			C428R48	C428-48	90
103	93					91
104	94					92
105	95					93
106	96					94
107	97					95
108	98					96
109	99					97
110	100					98
111	101					99
112	102					100
113	103					101
114	104					102
115	105					103
116	106					104
117	107					105
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119	109					107
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						119

APPROVED 12 DEC 63 REVISED FOR CHANGES SEE PAGES 1, 2, 3 AND 4

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PROCUREMENT SPECIFICATION FF-S-92		SUPERSEDES: MS35217, MS35234 AND IN PART: MS35357, MS35359 THRU MS35362, MS35362, MS35364 THRU MS35366, ANS20 AND ANS26	PAGE 4 OF 4