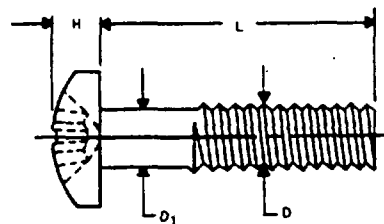
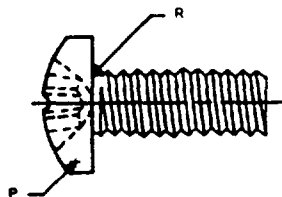
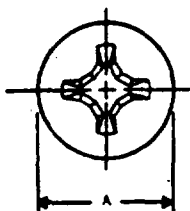


FED. SUP CLASS
5305

D NOMINAL SIZE			.060	.066	.112	.138	.164
THREADS PER INCH			80UNF	64UNF	48UNF	40UNF	36UNF
D1 BODY DIAMETER	MAX		.0600	.0660	.1120	.1380	.1640
	MIN		.0495	.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
R 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	+0 -1/32	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		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	+0 -1/16		9	19	32	47
	7/8		10*	20	33	48	
	1			21	34	49	
	1-1/4			22*	35	50	
	1-1/2			23*	36	51	
	1 3/4				37	52	
	2				38	53	
	2-1/4						54*
MINIMUM COMPLETE THREAD LENGTH OF 1-3/4	2-1/2	+0 -3/32					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 16:18 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 Code 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, AND 20 AND AND 26.	
DD FORM 672-1 (COORDINATED)		PAGE 1 OF 4	

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5305-1511

User activities:
ARMY-JRC
NAVY-JRCRevis. Divisions:
ARMY - AT, AV, EA, MI
AIR FORCE - B2
DLA - IS
NSA - NS

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 applicable.

APPROVED 12 DEC 63
REVISION A 16 DEC 1968
B 2 APR 1971
C 11 FEB 83

FED. SUP CLASS
5305

User Activities:

ARMY-JRC
NAVY-JRCARMY - AT, AV, EA, MI
AIR FORCE - B2
DLA - IS
NSA - NS

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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	.1858	.2225	.2806	.3430
A	HEAD DIAMETER	MAX	.375	.492	.615	.740
		MIN	.357	.475	.594	.716
H	HEAD HEIGHT	MAX	.135	.175	.218	.261
		MIN	.122	.162	.203	.244
P	HEAD RADII	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	2,920	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 -1/32	56*	76	92	107
	3/16		59			
	1/4		60			
	5/16		61			
	3/8	+0 -1/32	62	77	93	108
	7/16		63	78	94	109
	1/2		64	79	95	110
	5/8		65	80	96	111
	3/4	+0 -1/16	66	81	97	112
	7/8		67	82	98	113
	1		68	83	99	114
	1-1/4		69	84	100	115
	1-1/2	+0 -3/32	70	85	101	116
	1-3/4		71	86	102	117
	2		72	87	103	118
	2-1/4		73	88	104	119
MINIMUM COMPLETE THREAD LENGTH OF 1-3/4	2-1/2	+0 -3/32	74*	89	105*	119
	2-3/4		75*	90*	106*	
	3			91*		

* 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-428.

NOTE: For Applicable Requirements and Notes, See page 1.

APPROVED 12 DEC 63
REVISED 6 FOR CHANGES SEE PAGES 1, 2, 3 AND 4

P. A. AR Other Code 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, MS35399 THRU MS35362, MS35364 THRU MS35366, AN520 AND AN526.	
DD FORM 672-1 (COORDINATED)		5305-1511	

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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 on 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	C2R5	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	
				10	
11	10	C3R5 thru C3R12	C3-3 thru C3-12	No Replacement	
12	11	C4R5	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	
		C4R18	C4-18	21	
22		C4R20	C4-20	No Replacement	
		C4R22	C4-22	22	
23		C4R24	C4-24	No Replacement	
		C4R26	C4-26	23	
		C4R28	C4-28	No Replacement	
		C5R4 thru C5R28	C5-4 thru C5-28	No Replacement	
24	21			24	
25	22			25	
26	23	C6R4	C6-4	26	
27	24	C6R5	C6-5	27	
28	25	C6R6	C6-6	28	
29	26	C6R7	C6-7	29	
30	27	C6R8	C6-8	30	
				No Replacement	
31	28	C6R10	C6-10	C640R4	
32	29	C6R12	C6-12	C640R5	
33	30	C6R14	C6-14	C640R6	
34	31	C6R16	C6-16	C640R7	
		C6R18	C6-18	C640R8	
35	32	C6R20	C6-20	C640R9	
		C6R22	C6-22	C640R10	
36	33	C6R24	C6-24	C640R12	
		C6R26	C6-26	C640R14	
37	34	C6R28	C6-28	C640R16	
		C6R30	C6-30	C640R18	
38	35	C6R32	C6-32	C640R20	
		C6R36	C6-36	C640R22	
		C6R40	C6-40	C640R24	
				C640R26	
39	36			C640R28	
40	37			C640R30	
41	38	C8R4	C8-4	C640R32	
42	39	C8R5	C8-5	C640R36	
43	40	C8R6	C8-6	C640R40	
44	41	C8R7	C8-7	C640R44	
45	42	C8R8	C8-8	C640R48	
				C836R4	
46	43	C8R10	C8-10	C836R5	
47	44	C8R12	C8-12	C836R6	
48	45	C8R14	C8-14	C836R7	
49	46	C8R16	C8-16	C836R8	
		C8R18	C8-18	C836R9	
50	47	C8R20	C8-20	C836R10	
		C8R22	C8-22	C836R12	
51	48	C8R24	C8-24	C836R14	
		C8R26	C8-26	C836R16	
				C836R18	
				C836R20	
				C836R22	
				C836R24	
				C836R26	

(CONTINUED ON PAGE 4)

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

User activities:
ARMY-WE
NAVY-MC

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

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INTERCHANGEABILITY TABLE (Continued)						FED. SUP CLASS 5305
CROSS REFERENCE OF PART NUMBERS						
CANCELLED						NEW
MS35234	MS35217	ANS20		ANS26		MS51958
DASH NUMBER						DASH NUMBER
52	49	C8R28	C8-28	C836R28	C836-28	52
53	50	C8R30	C8-30	C836R30	C836-30	No Replacement
54		C8R32	C8-32	C836R32	C836-32	53
55		C8R36	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
				C1032R9	C1032-9	63
64	56	C10R10	C10-10	C1032R10	C1032-10	No Replacement
65	57	C10R12	C10-12	C1032R12	C1032-12	64
66	58	C10R14	C10-14	C1032R14	C1032-14	65
67	59	C10R16	C10-16	C1032R16	C1032-16	66
		C10R18	C10-18	C1032R18	C1032-18	67
68	60	C10R20	C10-20	C1032R20	C1032-20	No Replacement
		C10R22	C10-22	C1032R22	C1032-22	68
69	61	C10R24	C10-24	C1032R24	C1032-24	No Replacement
		C10R26	C10-26	C1032R26	C1032-26	69
70	62	C10R28	C10-28	C1032R28	C1032-28	No Replacement
		C10R30	C10-30	C1032R30	C1032-30	70
71	63	C10R32	C10-32	C1032R32	C1032-32	No Replacement
72	64	C10R36	C10-36	C1032R36	C1032-36	71
73	65	C10R40	C10-40	C1032R40	C1032-40	72
74		C10R44	C10-44	C1032R44	C1032-44	73
75		C10R48	C10-48	C1032R48	C1032-48	74
76	66					75
77	67	C416R6	C416-6	C428R6	C428-6	76
78	68	C416R7	C416-7	C428R7	C428-7	77
79	69	C416R8	C416-8	C428R8	C428-8	78
				C428R9	C428-9	79
80	70	C416R10	C416-10	C428R10	C428-10	No Replacement
81	71	C416R12	C416-12	C428R12	C428-12	80
82	72	C416R14	C416-14	C428R14	C428-14	81
83	73	C416R16	C416-16	C428R16	C428-16	82
		C416R18	C416-18	C428R18	C428-18	83
84	74	C416R20	C416-20	C428R20	C428-20	No Replacement
		C416R22	C416-22	C428R22	C428-22	84
85	75	C416R24	C416-24	C428R24	C428-24	No Replacement
		C416R26	C416-26	C428R26	C428-26	85
86	76	C416R28	C416-28	C428R28	C428-28	No Replacement
		C416R30	C416-30	C428R30	C428-30	86
87	77	C416R32	C416-32	C428R32	C428-32	No Replacement
88	78	C416R36	C416-36	C428R36	C428-36	87
89	79	C416R40	C416-40	C428R40	C428-40	88
90		C416R44	C416-44	C428R44	C428-44	89
91		C416R48	C416-48	C428R48	C428-48	90
92	80					91
93	81					92
94	82					93
95	83					94
96	84					95
97	85					96
98	86					97
99	87					98
100	88					99
101	89					100
102	90					101
103	91					102
104	92					103
105						104
106						105
107	93					106
108	94					107
109	95					108
110	96					109
111	97					110
112	98					111
113	99					112
114	100					113
115	101					114
116	102					115
117	103					116
118	104					117
119	105					118
						119

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-5-92		SUPERSEDED: MS35217, MS35234 AND IN PART: MS35557, MS35559 THRU MS35562, MS35562, MS35564 THRU MS35566, ANS20 AND ANS26	PAGE 4 OF 4

User activities:
ARMY-NE
NAVY-NC

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

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

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5305-1511