

REVIEW: ME, EA, IS, AM, ME, AT
 USER: SM, AS, CL, MJ, YD, PA, WY, MC

NOMINAL SIZE		(#0)	(#2)	(#4)	(#6)	(#8)	(#10)	(1/4)	(3/16)	(3/8)	
THREADS PER INCH, UNF-2A		80	64	48	40	36	32	28	24	24	
D	BODY DIAMETER	MAX MIN	.0600 .0496	.0860 .0733	.1120 .0954	.1380 .1184	.1640 .1424	.1900 .1658	.2500 .2225	.3125 .2806	.3750 .3430
A	HEAD DIAMETER	MAX SHARP MIN SHARP ABS MIN	.119 .105 .099	.172 .156 .147	.225 .207 .195	.279 .257 .244	.332 .308 .292	.385 .359 .340	.507 .477 .452	.638 .600 .568	.762 .722 .685
H	HEAD HEIGHT	REF	.055	.051	.067	.083	.100	.116	.153	.191	.250
H ₁	HEAD HEIGHT UNDERCUT	MAX MIN	.025 .018	.036 .028	.047 .038	.059 .048	.070 .058	.081 .068	.107 .087	.134 .116	.161 .140
R	RADIUS	MAX	.024	.034	.045	.055	.066	.076	.100	.125	.150
R ₁	RADIUS-UNDERCUT	MAX	.009	.013	.017	.021	.025	.029	.038	.047	.056
DRIVER SIZE			0	1	1	2	2	2	3	4	4
TENSILE STRENGTH (LBS) MIN			100	220	380	580	840	1140	2070	3310	5000
L LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
.125	+0 -.031	109	1	10	21	36	51	66	80	95	110
.188		110	2	11	22	37					
.250		111	3	12	23	38					
.312		112	4	13	24	39					
.375		113	5	14	25	40					
.438	+0 -.062		6	15	26	41	53	67	81	96	113
.500			7	16	27	42	54	68	82	97	
.562			8	17	28	43	55	69	83	98	
.750			9	18	29	44	56	70	84	99	
.875				19	30	45	57	71	85	100	
1.000	+0 -.084			20	31	46	58	72	86	101	114
1.250					32	47	59	73	87	102	
1.500					33	48	60	74	88	103	
1.750					34	49	61	75	89	104	
2.000					35	50	62	76	90	105	
2.250	+0 -.084						63	77	91	106	
2.500							64	78	92	107	
2.750							65	79	93	108	
3.000										109	

NOTES:

- MATERIAL:** Brass in accordance with QQ-B-626 or QQ-V-321 having minimum ultimate tensile strength of 57,000 PSI.
- PROTECTIVE COATING:** Black Chemical Finish in accordance with MIL-P-495.
- 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 practicable. 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: MS35199-1.
- 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.

(B) ENTIRE STANDARD REVISED

P.A. WC	TITLE	MILITARY STANDARD
Other Cust	SCREW, MACHINE-FLAT COUNTERSUNK HEAD, 82°, CROSS-RECESSED, BRASS, BLACK CHEMICAL FINISH, UNF-2A	MS35199
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES: PREVIOUS EDITIONS, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 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2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 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3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3114, 3115, 3116, 3117, 3118, 3119, 3120, 3121, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129, 3130, 3131, 3132, 3133, 3134, 3135, 3136, 3137, 3138, 3139, 3140, 3141, 3142, 3143, 3144, 3145, 3146, 3147, 3148, 3149, 3150, 3151, 3152, 3153, 3154, 3155, 3156, 3157, 3158, 3159, 3160, 3161, 3162, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3171, 3172, 3173, 3174, 3175, 3176, 3177, 3178, 3179, 3180, 3181, 3182, 3183, 3184, 3185, 3186, 3187, 3188, 3189, 3190, 3191, 3192, 3193, 3194, 3195, 3196, 3197, 3198, 3199, 3200, 3201, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3220, 3221, 3222, 3223, 3224, 3225, 3226, 3227, 3228, 3229, 3230, 3231, 3232, 3233, 3234, 3235, 3236, 3237, 3238, 3239, 3240, 3241, 3242, 3243, 3244, 3245, 3246, 3247, 3248, 3249, 3250, 3251, 3252, 3253, 3254, 3255, 3256, 3257, 3258, 3259, 3260, 3261, 3262, 3263, 3264, 3265, 3266, 3267, 3268, 3269, 3270, 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FED. SUP CLASS
5305

CROSS REFERENCE OF PART NUMBERS

CANCELLED				SUPERSEDED BY	CANCELLED				SUPERSEDED BY
MS35197	MS35246 MS35248	AN510		MS35199	MS35197	MS35246 MS35248	AN510		MS35199
Dash Number				Dash Number	Dash Number				Dash Number
	1	B4R2	B0-2	109		B5R4	B5-4	No Replacement	
	2	B4R3	B0-3	110		B5R5	B5-5	No Replacement	
	3	B4R4	B0-4	111		B5R6	B5-6	No Replacement	
	4	B4R5	B0-5	112		B5R7	B5-7	No Replacement	
	5	B4R6	B0-6	113		B5R8	B5-8	No Replacement	
		B4R7	B0-7	No Replacement		B5R9	B5-9	No Replacement	
		B4R8	B0-8	No Replacement		B5R10	B5-10	No Replacement	
	6	B1R2	B1-2	No Replacement		B5R11	B5-11	No Replacement	
	7	B1R3	B1-3	No Replacement		B5R12	B5-12	No Replacement	
	8	B1R4	B1-4	No Replacement		B5R13	B5-13	No Replacement	
	9	B1R5	B1-5	No Replacement		B5R14	B5-14	No Replacement	
	10	B1R6	B1-6	No Replacement		B5R15	B5-15	No Replacement	
	11	B1R7	B1-7	No Replacement		B5R16	B5-16	No Replacement	
	12	B1R8	B1-8	No Replacement		B5R19	B5-19	No Replacement	
1	13			1		B5R20	B5-20	No Replacement	
2	14	B2R3	B2-3	2		B5R22	B5-22	No Replacement	
3	15	B2R4	B2-4	3		B5R24	B5-24	No Replacement	
4	16	B2R5	B2-5	4		B5R26	B5-26	No Replacement	
5	17	B2R6	B2-6	5		B5R29	B5-29	No Replacement	
6	18	B2R7	B2-7	6	21			21	
7	19	B2R8	B2-8	7	22			22	
		B2R9	B2-9	No Replacement	23	35	B6R4	B6-4	23
8	20	B2R10	B2-10	5	24	36	B6R5	B6-5	24
		B2R11	B2-11	No Replacement	25	37	B6R6	B6-6	25
9	21	B2R12	B2-12	9	26	38	B6R7	B6-7	26
		B3R3	B3-3	No Replacement	27	39	B6R8	B6-8	27
		B3R4	B3-4	No Replacement			B6R9	B6-9	No Replacement
		B3R5	B3-5	No Replacement	29	40	B6R10	B6-10	29
		B3R6	B3-6	No Replacement			B6R11	B6-11	No Replacement
		B3R7	B3-7	No Replacement	29	41	B6R12	B6-12	29
		B3R8	B3-8	No Replacement			B6R13	B6-13	No Replacement
		B3R9	B3-9	No Replacement	30	42	B6R14	B6-14	30
		B3R10	B3-10	No Replacement			B6R15	B6-15	No Replacement
		B3R11	B3-11	No Replacement	31	43	B6R16	B6-16	31
		B3R12	B3-12	No Replacement			B6R19	B6-19	No Replacement
10	22			10	32	44	B6R20	B6-20	32
11	23	B4R3	B4-3	11			B6R22	B6-22	No Replacement
12	24	B4R4	B4-4	12	33	45	B6R24	B6-24	33
13	25	B4R5	B4-5	13			B6R26	B6-26	No Replacement
14	26	B4R6	B4-6	14	34	46	B6R29	B6-29	34
15	27	B4R7	B4-7	15			B6R30	B6-30	No Replacement
16	28	B4R8	B4-8	16	35	47	B6R32	B6-32	35
		B4R9	B4-9	No Replacement			B6R34	B6-34	No Replacement
17	29	B4R10	B4-10	17			B6R36	B6-36	No Replacement
		B4R11	B4-11	No Replacement			B6R38	B6-38	No Replacement
18	30	B4R12	B4-12	18			B6R40	B6-40	No Replacement
		B4R13	B4-13	No Replacement	36	48			36
19	31	B4R14	B4-14	19	37	49			37
		B4R15	B4-15	No Replacement	38	50	B8R4	B8-4	38
20	32	B4R16	B4-16	20	39	51	B8R5	B8-5	39
		B4R19	B4-19	No Replacement	40	52	B8R6	B8-6	40
		B4R20	B4-20	No Replacement	41	53	B8R7	B8-7	41
		B4R22	B4-22	No Replacement	42	54	B8R9	B8-9	42
		B4R24	B4-24	No Replacement			B8R9	B8-9	No Replacement
		B4R26	B4-26	No Replacement	43	55	B8R10	B8-10	43
		B4R28	B4-28	No Replacement			B8R11	B8-11	No Replacement

(Continued on Sheet 3)

P.A.	WC	TITLE	MILITARY STANDARD
Other Cost	82	SCREW, MACHINE-FLAT COUNTERSINK HEAD, 82°, CROSS-RECESSED, BRASS, BLACK CHEMICAL FINISH, UNIT - PA	MS35199
PROCUREMENT SPECIFICATION PP-S-92	SUPERSEDES: NSC807, GELT646, NESTER46, ALU34DB IN PART, NEST6 883 IN PART, ALGMO 11, PART, DCLX2, 2.1, 2.2, 2.3, 4, SCROD IN PART, DECOOL 2.1, BOAGB IN PART, BOAGB J AND H-E 50		SHEET 2 OF 4

APPROVED 24 MAR 63 REVISED (A) 21 MAR 1963 (B) FOR CHANGES SEE SHEET 1.

REVIEW: ME, EA, IS, AV, MW, AT
USER: SM, AS, GL, MU, YD, PA, WV, MC

This is a 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.

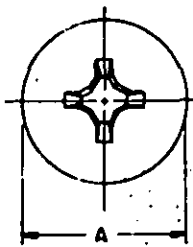
FED. SUP CLASS 5305									
CROSS REFERENCE OF PART NUMBERS									
CANCELLED				SUPERSEDED BY		CANCELLED		SUPERSEDED BY	
MS35197	MS35246 MS35248	ANS10	MS35199	MS35197	MS35246 MS35248	ANS10	MS35199		
Dash Number			Dash Number		Dash Number			Dash Number	
44	56	B8R12	B8-12	44	70	90	B416R9	B416-9	No Replacement
		B8R13	B8-13	No Replacement			B416R10	B416-10	70
45	57	B8R14	B8-14	45	71	91	B416R11	B416-11	No Replacement
		B8R15	B8-15	No Replacement			B416R12	B416-12	71
46	58	B8R16	B8-16	46	72	92	B416R13	B416-13	No Replacement
		B8R18	B8-18	No Replacement			B416R14	B416-14	72
47	59	B8R20	B8-20	47			B416R15	B416-15	No Replacement
					73	93	B416R16	B416-16	73
48	60	B8R22	B8-22	No Replacement			B416R19	B416-19	No Replacement
		B8R24	B8-24	48	74	94	B416R20	B416-20	74
		B8R26	B8-26	No Replacement			B416R22	B416-22	No Replacement
49	61	B8R28	B8-28	49	75	95	B416R24	B416-24	75
		B8R30	B8-30	No Replacement			B416R26	B416-26	No Replacement
50	62	B8R32	B8-32	50	76	96	B416R28	B416-28	76
		B8R34	B8-34	No Replacement					
	63	B8R36	B8-36	No Replacement			B416R30	B416-30	No Replacement
		B8R38	B8-38	No Replacement	77	97	B416R32	B416-32	77
	64	B8R40	B8-40	No Replacement			B416R34	B416-34	No Replacement
		B8R42	B8-42	No Replacement	78	98	B416R36	B416-36	78
	65	B8R44	B8-44	No Replacement			B416R38	B416-38	No Replacement
		B8R46	B8-46	No Replacement	79	99	B416R40	B416-40	79
	66	B8R48	B8-48	No Replacement			B416R42	B416-42	No Replacement
				No Replacement		100	B416R44	B416-44	No Replacement
51	67	B10R4	B10-4	51			B416R46	B416-46	No Replacement
52	68	B10R5	B10-5	52	90	101	B416R48	B416-48	No Replacement
53	69	B10R6	B10-6	53	91	102			90
54	70	B10R7	B10-7	54	92	103			91
55	71	B10R8	B10-8	55	93	104			92
	72	B10R9	B10-9	No Replacement		105			93
					94	106			94
56	73	B10R10	B10-10	56	95	107			95
		B10R11	B10-11	No Replacement	96	108			96
57	74	B10R12	B10-12	57	97	109			97
		B10R13	B10-13	No Replacement	98	110			98
58	75	B10R14	B10-14	58	99	111			99
		B10R15	B10-15	No Replacement	90	112			90
59	76	B10R16	B10-16	59					91
					91	113			92
	77	B10R18	B10-18	No Replacement	92	114			No Replacement
		B10R20	B10-20	60		115			No Replacement
		B10R22	B10-22	No Replacement		116			93
61	78	B10R24	B10-24	61	93	117			94
		B10R26	B10-26	No Replacement	94	118			95
62	79	B10R28	B10-28	62	95	119			96
		B10R30	B10-30	No Replacement					97
	80	B10R32	B10-32	63	96	120			98
		B10R34	B10-34	No Replacement	97	121			99
64	81	B10R36	B10-36	64	98	122			100
		B10R38	B10-38	No Replacement	99	123			101
65	82	B10R40	B10-40	65	100	124			102
		B10R42	B10-42	No Replacement	101	125			103
	83	B10R44	B10-44	No Replacement	102	126			104
									105
	84	B10R46	B10-46	No Replacement	103	127			
	85	B10R48	B10-48	No Replacement	104	128			
				No Replacement	105	129			
66	86			66		130 thru			No Replacement
67	87	B416R6	B416-6	67		131			
68	88	B416R7	B416-7	68					
69	89	B416R8	B416-8	69					

P.A.	WC	TITLE	MILITARY STANDARD
Other Case	82	SCREW, MACHINE-FLAT COUNTERSUNK HEAD, 82°, CROSS-RECESSED, BRASS, BLACK CHEMICAL FINISH, UNF-2A	MS35199
PROCUREMENT SPECIFICATION	PF-5-92	SUPERSEDES: MS35197, MS35246, MS35248, MS35249 IN PART, MS35248 IN PART, AR804 IN PART, BCLYE, R.L.T.S., R.L., 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130 thru 131 IN PART.	SHEET 3 OF 4

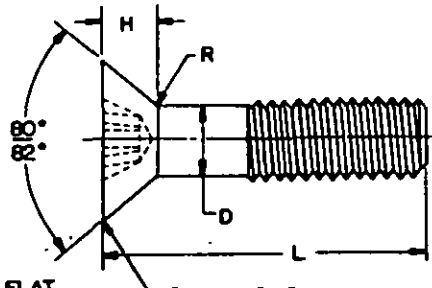
REVISED (A) 21 MAR 1963 (B) FOR CHANGES SEE SHEET 1

APPROVED 25 JUNE 53

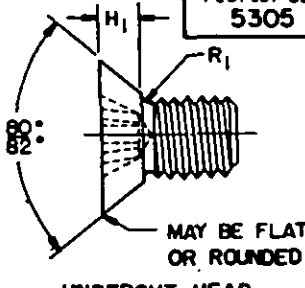
REVIEW: ME, EA, IS, AM, MI, AT
 USER: SA, AS, OL, ML, YO, PA, WV, MC



MAY BE FLAT OR ROUNDED



FULL HEAD



UNDERCUT HEAD

TABLE III
METRIC TRANSLATION OF TABLE I

NOMINAL SIZE	MM	1.524	2.184	2.845	3.505	4.166	4.826	6.350	7.938	9.525
PITCH		.32	.40	.53	.64	.71	.79	.91	1.06	1.06
D BODY DIAMETER	MAX MIN	1.524 1.260	2.184 1.862	2.845 2.423	3.505 3.007	4.166 3.617	4.826 4.211	6.350 5.652	7.938 7.127	9.525 8.712
A HEAD DIAMETER	MAX SHARP MIN SHARP ABS MIN	3.023 2.667 2.515	4.369 3.962 3.734	5.715 5.258 4.923	7.087 6.528 6.198	8.433 7.821 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	.889	1.295	1.702	2.108	2.540	2.946	3.886	4.851	5.842
H1 HEAD HEIGHT UNDERCUT	MAX MIN	.635 .457	.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 3.555
R RADIUS	MAX	.610	.864	1.143	1.397	1.676	1.930	2.540	3.175	3.810
R1 RADIUS-UNDERCUT	MAX	.229	.330	.432	.533	.635	.737	.965	1.194	1.422
DRIVER SIZE		0	1	1	2	2	2	3	4	4
TENSILE STRENGTH, KN-MIN		.448	.986	1.703	2.599	3.738	5.109	9.278	14.836	22.411
L LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
3.175	+0 -.787	109	1	10	21	36				
4.775		110	2	11	22	37				
6.350		111	3	12	23	38	51			
7.925		112	4	13	24	39	52	66		
9.525		113	5	14	25	40	53	67	80	
11.125	+0 -1.575		6	15	26	41	54	68	81	
12.700			7	16	27	42	55	69	82	
15.875			8	17	28	43	56	70	83	93
19.050			9	18	29	44	57	71	84	95
22.225				19	30	45	58	72	85	96
25.400	+0 -2.388		20	31	46	59	73	86	97	
31.750				32	47	60	74	87	98	
38.100				33	48	61	75	88	99	
44.450				34	49	62	76	89	100	
50.800				35	50	63	77	90	101	
57.150	+0 -2.388					64	78	91	102	
63.500						65	79	92	103	
69.850									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.

P.A. MC
Other Case
82

TITLE
SCREW, MACHINE-FLAT COUNTERSUNK HEAD, 82°,
CROSS-RECESSED, BRASS, BLACK CHEMICAL
FINISH, UNF-2A

MILITARY STANDARD
MS35199

PROCUREMENT SPECIFICATION
FF-S-92

SUPERSEDES: MS35199-01, MS35199-02, MS35199-03, MS35199-04, MS35199-05, MS35199-06, MS35199-07, MS35199-08, MS35199-09, MS35199-10, MS35199-11, MS35199-12, MS35199-13, MS35199-14, MS35199-15, MS35199-16, MS35199-17, MS35199-18, MS35199-19, MS35199-20, MS35199-21, MS35199-22, MS35199-23, MS35199-24, MS35199-25, MS35199-26, MS35199-27, MS35199-28, MS35199-29, MS35199-30, MS35199-31, MS35199-32, MS35199-33, MS35199-34, MS35199-35, MS35199-36, MS35199-37, MS35199-38, MS35199-39, MS35199-40, MS35199-41, MS35199-42, MS35199-43, MS35199-44, MS35199-45, MS35199-46, MS35199-47, MS35199-48, MS35199-49, MS35199-50, MS35199-51, MS35199-52, MS35199-53, MS35199-54, MS35199-55, MS35199-56, MS35199-57, MS35199-58, MS35199-59, MS35199-60, MS35199-61, MS35199-62, MS35199-63, MS35199-64, MS35199-65, MS35199-66, MS35199-67, MS35199-68, MS35199-69, MS35199-70, MS35199-71, MS35199-72, MS35199-73, MS35199-74, MS35199-75, MS35199-76, MS35199-77, MS35199-78, MS35199-79, MS35199-80, MS35199-81, MS35199-82, MS35199-83, MS35199-84, MS35199-85, MS35199-86, MS35199-87, MS35199-88, MS35199-89, MS35199-90, MS35199-91, MS35199-92, MS35199-93, MS35199-94, MS35199-95, MS35199-96, MS35199-97, MS35199-98, MS35199-99, MS35199-100, MS35199-101, MS35199-102, MS35199-103, MS35199-104, MS35199-105

SHEET 4 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, per ARJ-100.

REVISED (A) 21 MAR 1963 (B) FOR CHANGES SEE SHEET 1. APPROVED 25 JUN 1953