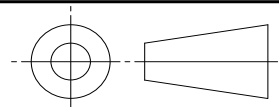


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SAE values your input. To provide feedback on this Technical Report, please visit http://www.sae.org/technical/standards/MA3339C		THIRD ANGLE PROJECTION 		
CUSTODIAN: E-25		PROCUREMENT SPECIFICATION: MA3376		
		METRIC AEROSPACE STANDARD BOLT, MACHINE - SPLINE EXTENDED WASHER, PD SHANK, LONG THREAD, AMS6322, CADMIUM PLATED, METRIC		MA3339
				REV. C

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ISSUED 1978-08 NONCURRENT 1996-11 REAFFIRMED NONCURRENT 2006-05 REVISED 2009-06 STABILIZED 2014-08

TABLE 1 – PART NO AND DIMENSIONS

PART NUMBER SEE NOTE 8	NOM DIA REF	THREAD T	C	D h15	E MAX	F MIN	G MIN	H MIN
MA3339-040XXX	4	MJ4x0.7-4h6h	2.6 - 3.1	5.02 - 5.50	8.3	7.5	6	0.8
MA3339-050XXX	5	MJ5x0.8-4h6h	3.0 - 4.0	5.92 - 6.50	9.1	8.3	7	1.0
MA3339-060XXX	6	MJ6x1-4h6h	3.7 - 4.7	6.92 - 7.50	10.6	9.8	8	1.2
MA3339-070XXX	7	MJ7x1-4h6h	4.7 - 5.7	7.62 - 8.20	12.1	11.3	9	1.4
MA3339-080XXX	8	MJ8x1-4h6h	5.7 - 6.7	8.02 - 8.60	13.6	12.8	10	1.6
MA3339-100XXX	10	MJ10x1.25-4h6h	7.4 - 8.4	9.40 - 10.10	16.7	15.7	12	2.0
MA3339-120XXX	12	MJ12x1.25-4h6h	9.4 - 10.4	10.70 - 11.40	19.9	18.8	14	2.4

TABLE 1 – PART NO AND DIMENSIONS (CONTINUED)

NOM DIA REF	K	R	U	V	Y MIN	AA	AB	AC	WRENCHING CONFIGURATION DASH NO. SEE NOTE 10
4	3.42 - 3.68	0.2 - 0.4	-	-	2.5	0.0030	0.10	0.12	06
5	4.35 - 4.61	0.3 - 0.5	2.5 - 2.9	3.2 - 3.7	2.8	0.0030	0.13	0.12	07
6	5.22 - 5.48	0.5 - 0.7	2.8 - 3.2	4.1 - 4.6	3.5	0.0030	0.15	0.12	08
7	6.22 - 6.48	0.5 - 0.7	3.3 - 3.7	4.9 - 5.4	3.8	0.0030	0.18	0.15	09
8	7.22 - 7.48	0.5 - 0.7	3.7 - 4.1	5.2 - 5.7	3.9	0.0030	0.20	0.15	10
10	9.06 - 9.32	0.6 - 0.8	4.7 - 5.1	6.7 - 7.2	4.2	0.0025	0.25	0.15	12
12	11.06 - 11.32	0.6 - 0.9	5.6 - 6.0	8.0 - 8.5	4.5	0.0025	0.30	0.18	14



METRIC AEROSPACE STANDARD

BOLT, MACHINE - SPLINE EXTENDED
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TABLE 2-- DASH NO, DIMENSIONS L, M AND N

L LENGTH	MJ4x0.7-4h6h				MJ5x0.8-4h6h			
	DASH NO. SEE NOTE 8	M MAX	N MIN	APPROX. MASS kg/100	DASH NO. SEE NOTE 8	M MAX	N MIN	APPROX. MASS kg/100
5.7 - 6.3	040006	1.8	0.4	0.237	-	-	-	-
7.7 - 8.3	040008	1.8	0.4	0.253	050008	2.1	0.5	0.353
9.7 - 10.3	040010	1.8	0.4	0.269	050010	2.1	0.5	0.379
11.7 - 12.3	040012	1.8	0.4	0.285	050012	2.1	0.5	0.405
13.7 - 14.3	040014	1.8	0.4	0.301	050014	2.1	0.5	0.430
15.7 - 16.3	040016	2.0	0.4	0.317	050016	2.1	0.5	0.456
17.7 - 18.3	040018	4.0	1.1	0.333	050018	2.1	0.5	0.481
19.7 - 20.3	040020	6.0	3.1	0.349	050020	4.0	0.9	0.507
21.7 - 22.3	040022	8.0	5.1	0.365	050022	6.0	2.9	0.532
23.7 - 24.3	040024	10.0	7.1	0.381	050024	8.0	4.9	0.558
25.7 - 26.3	040026	12.0	9.1	0.397	050026	10.0	6.9	0.583
27.7 - 28.3	040028	14.0	11.1	0.413	050028	12.0	8.9	0.609
29.7 - 30.3	040030	16.0	13.1	0.429	050030	14.0	10.9	0.635
31.7 - 32.3	040032	18.0	15.1	0.445	050032	16.0	12.9	0.660
33.7 - 34.3	040034	20.0	17.1	0.461	050034	18.0	14.9	0.686
35.7 - 36.3	040036	22.0	19.1	0.477	050036	20.0	16.9	0.711
37.7 - 38.3	040038	24.0	21.1	0.493	050038	22.0	18.9	0.737
39.7 - 40.3	040040	26.0	23.1	0.509	050040	24.0	20.9	0.762
41.7 - 42.3	040042	28.0	25.1	0.525	050042	26.0	22.9	0.788
43.7 - 44.3	040044	30.0	27.1	0.541	050044	28.0	24.9	0.813
45.7 - 46.3	040046	32.0	29.1	0.557	050046	30.0	26.9	0.839
47.7 - 48.3	040048	34.0	31.1	0.573	050048	32.0	28.9	0.864
49.7 - 50.3	040050	36.0	33.1	0.589	050050	34.0	30.9	0.890
51.7 - 52.3	040052	38.0	35.1	0.605	050052	36.0	32.9	0.916
53.7 - 54.3	040054	40.0	37.1	0.621	050054	38.0	34.9	0.941
55.7 - 56.3	040056	42.0	39.1	0.637	050056	40.0	36.9	0.967
57.7 - 58.3	-	-	-	-	050058	42.0	38.9	0.992
59.7 - 60.3	-	-	-	-	050060	44.0	40.9	1.018
63.7 - 64.3	-	-	-	-	050064	48.0	44.9	1.069
67.7 - 68.3	-	-	-	-	050068	52.0	48.9	1.120



METRIC AEROSPACE STANDARD

BOLT, MACHINE - SPLINE EXTENDED
WASHER, PD SHANK, LONG THREAD,
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TABLE 2- DASH NO, DIMENSIONS L, M AND N (CONTINUED)

L LENGTH	MJ6x1-4h6h				MJ7x1-4h6h			
	DASH NO. SEE NOTE 8	M MAX	N MIN	APPROX. MASS kg/100	DASH NO. SEE NOTE 8	M MAX	N MIN	APPROX. MASS kg/100
9.7 - 10.3	060010	2.7	0.7	0.557	070010	2.7	0.7	0.772
11.7 - 12.3	060012	2.7	0.7	0.593	070012	2.7	0.7	0.823
13.7 - 14.3	060014	2.7	0.7	0.630	070014	2.7	0.7	0.875
15.7 - 16.3	060016	2.7	0.7	0.666	070016	2.7	0.7	0.926
17.7 - 18.3	060018	2.7	0.7	0.703	070018	2.7	0.7	0.978
19.7 - 20.3	060020	2.7	0.7	0.739	070020	2.7	0.7	1.029
21.7 - 22.3	060022	4.0	0.7	0.776	070022	2.7	0.7	1.080
23.7 - 24.3	060024	6.0	2.5	0.812	070024	4.0	0.7	1.132
25.7 - 26.3	060026	8.0	4.5	0.849	070026	6.0	2.5	1.183
27.7 - 28.3	060028	10.0	6.5	0.885	070028	8.0	4.5	1.235
29.7 - 30.3	060030	12.0	8.5	0.921	070030	10.0	6.5	1.286
31.7 - 32.3	060032	14.0	10.5	0.958	070032	12.0	8.5	1.338
33.7 - 34.3	060034	16.0	12.5	0.994	070034	14.0	10.5	1.389
35.7 - 36.3	060036	18.0	14.5	1.031	070036	16.0	12.5	1.441
37.7 - 38.3	060038	20.0	16.5	1.067	070038	18.0	14.5	1.492
39.7 - 40.3	060040	22.0	18.5	1.104	070040	20.0	16.5	1.544
41.7 - 42.3	060042	24.0	20.5	1.140	070042	22.0	18.5	1.595
43.7 - 44.3	060044	26.0	22.5	1.177	070044	24.0	20.5	1.646
45.7 - 46.3	060046	28.0	24.5	1.213	070046	26.0	22.5	1.689
47.7 - 48.3	060048	30.0	26.5	1.250	070048	28.0	24.5	1.749
49.7 - 50.3	060050	32.0	28.5	1.286	070050	30.0	26.5	1.801
51.7 - 52.3	060052	34.0	30.5	1.322	070052	32.0	28.5	1.852
53.7 - 54.3	060054	36.0	32.5	1.359	070054	34.0	30.5	1.904
55.7 - 56.3	060056	38.0	34.5	1.395	070056	36.0	32.5	1.955
57.7 - 58.3	060058	40.0	36.5	1.432	070058	38.0	34.5	2.007
59.7 - 60.3	060060	42.0	38.5	1.468	070060	40.0	36.5	2.058
63.7 - 64.3	060064	46.0	42.5	1.541	070064	44.0	40.5	2.161
67.7 - 68.3	060068	50.0	46.5	1.614	070068	48.0	44.5	2.264
71.7 - 72.3	060072	54.0	50.5	1.687	070072	52.0	48.5	2.367
75.7 - 76.3	060076	58.0	54.5	1.760	070076	56.0	52.5	2.470
79.7 - 80.3	060080	62.0	58.5	1.833	070080	60.0	56.5	2.573
83.7 - 84.3	060084	66.0	62.5	1.906	070084	64.0	60.5	2.676
87.7 - 88.3	-	-	-	-	070088	68.0	64.5	2.779
91.7 - 92.3	-	-	-	-	070092	72.0	68.5	2.882
95.7 - 96.3	-	-	-	-	070096	76.0	72.5	2.985



METRIC AEROSPACE STANDARD

BOLT, MACHINE - SPLINE EXTENDED
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AMS6322, CADMIUM PLATED, METRIC

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TABLE 2- DASH NO, DIMENSIONS L, M AND N (CONTINUED)

L LENGTH	MJ8x1-4h6h				MJ10x1.25-4h6h			
	DASH NO. SEE NOTE 8	M MAX	N MIN	APPROX. MASS kg/100	DASH NO. SEE NOTE 8	M MAX	N MIN	APPROX. MASS kg/100
9.7 - 10.3	080010	2.7	0.7	1.045	-	-	-	-
11.7 - 12.3	080012	2.7	0.7	1.114	-	-	-	-
13.7 - 14.3	080014	2.7	0.7	1.183	100014	3.3	0.8	1.975
15.7 - 16.3	080016	2.7	0.7	1.252	100016	3.3	0.8	2.083
17.7 - 18.3	080018	2.7	0.7	1.321	100018	3.3	0.8	2.191
19.7 - 20.3	080020	2.7	0.7	1.390	100020	3.3	0.8	2.299
21.7 - 22.3	080022	2.7	0.7	1.459	100022	3.3	0.8	2.406
23.7 - 24.3	080024	2.7	0.7	1.528	100024	3.3	0.8	2.514
25.7 - 26.3	080026	4.0	0.7	1.597	100026	3.3	0.8	2.622
27.7 - 28.3	080028	6.0	2.5	1.666	100028	3.3	0.8	2.730
29.7 - 30.3	080030	8.0	4.5	1.735	100030	4.0	0.8	2.838
31.7 - 32.3	080032	10.0	6.5	1.804	100032	6.0	2.0	2.946
33.7 - 34.3	080034	12.0	8.5	1.873	100034	8.0	4.0	3.053
35.7 - 36.3	080036	14.0	10.5	1.942	100036	10.0	6.0	3.161
37.7 - 38.3	080038	16.0	12.5	2.011	100038	12.0	8.0	3.269
39.7 - 40.3	080040	18.0	14.5	2.080	100040	14.0	10.0	3.377
41.7 - 42.3	080042	20.0	16.5	2.149	100042	16.0	12.0	3.485
43.7 - 44.3	080044	22.0	18.5	2.218	100044	18.0	14.0	3.593
45.7 - 46.3	080046	24.0	20.5	2.287	100046	20.0	16.0	3.700
47.7 - 48.3	080048	26.0	22.5	2.356	100048	22.0	18.0	3.808
49.7 - 50.3	080050	28.0	24.5	2.425	100050	24.0	20.0	3.916
51.7 - 52.3	080052	30.0	26.5	2.494	100052	26.0	22.0	4.024
53.7 - 54.3	080054	32.0	28.5	2.563	100054	28.0	24.0	4.132
55.7 - 56.3	080056	34.0	30.5	2.632	100056	30.0	26.0	4.240
57.7 - 58.3	080058	36.0	32.5	2.701	100058	32.0	28.0	4.347
59.7 - 60.3	080060	38.0	34.5	2.770	100060	34.0	30.0	4.455
63.7 - 64.3	080064	42.0	38.5	2.908	100064	38.0	34.0	4.671
67.7 - 68.3	080068	46.0	42.5	3.046	100068	42.0	38.0	4.887
71.7 - 72.3	080072	50.0	46.5	3.184	100072	46.0	42.0	5.102
75.7 - 76.3	080076	54.0	50.5	3.322	100076	50.0	46.0	5.318
79.7 - 80.3	080080	58.0	54.5	3.460	100080	54.0	50.0	5.534
83.7 - 84.3	080084	62.0	58.5	3.598	100084	58.0	54.0	5.749
87.7 - 88.3	080088	66.0	62.5	3.736	100088	62.0	58.0	5.965
91.7 - 92.3	080092	70.0	66.5	3.875	100092	66.0	62.0	6.181
95.7 - 96.3	080096	74.0	70.5	4.013	100096	70.0	66.0	6.396
99.7 - 100.3	080100	78.0	74.5	4.151	100100	74.0	70.0	6.612
103.7 - 104.3	080104	82.0	78.5	4.289	100104	78.0	74.0	6.828
107.7 - 108.3	080108	86.0	82.5	4.427	100108	82.0	78.0	7.043
111.7 - 112.3	080112	90.0	86.5	4.565	100112	86.0	82.0	7.259
115.7 - 116.3	-	-	-	-	100116	90.0	86.0	7.475
119.7 - 120.3	-	-	-	-	100120	94.0	90.0	7.690
123.7 - 124.3	-	-	-	-	100124	98.0	94.0	7.906
127.7 - 128.3	-	-	-	-	100128	102.0	98.0	8.122
131.7 - 132.3	-	-	-	-	100132	106.0	102.0	8.338
135.7 - 136.3	-	-	-	-	100136	110.0	106.0	8.553
139.7 - 140.3	-	-	-	-	100140	114.0	110.0	8.769



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