

RATIONALE

FIGURE 1 RE-DRAWN, DELETE THE TRANSITION RADII AT BASE OF WRENCHING SPLINE, ADD EDGE DISTANCE EXCEPTION TO HEAD MARKING NOTE, TABLES RE-FORMATTED, UPDATE FPI TO ASTM E1417/E1417M, REFERENCED DOCUMENTS UPDATED THROUGHOUT, ADD NEW NOTE FOR DISPOSITION OF EXISTING INVENTORY, GENERAL EDITORIAL AND FORMAT CHANGES THROUGHOUT.

REV.
A

MA3476™

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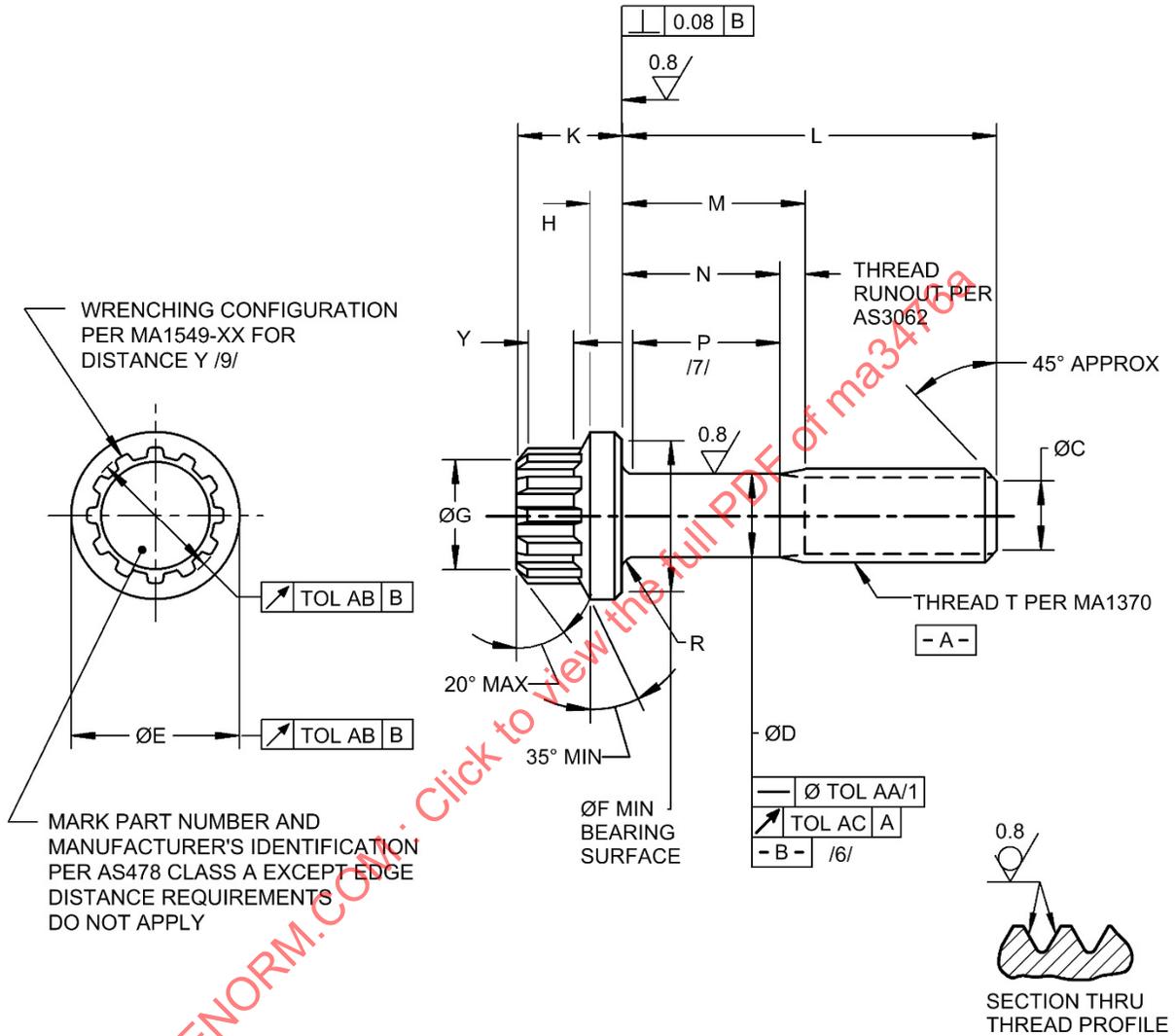
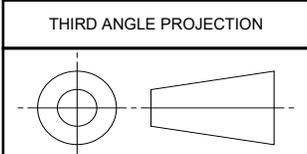


FIGURE 1 - BOLT

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CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: MA3377



METRIC AEROSPACE STANDARD

(R) BOLT, MACHINE - SPLINE EXTENDED WASHER, FULL HEAD, PD SHANK, LONG THREAD, NICKEL ALLOY (UNS N07718) - METRIC

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SHEET 1 OF 9

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TABLE 1A - PART NUMBERS, NOM DIA, THREAD T AND DIMENSIONS C, D, E, F, G, H, AND K

PART NUMBER /10/	NOM DIA	THREAD T	ØC	ØD	ØE MAX	F MIN	ØG MIN	H MIN	K h15 /13/
MA3476-050XXX	5	MJ5 X 0.8-4h6h	3.0- 4.0	4.35- 4.61	9.1	8.3	7	1.0	5.92- 6.50
MA3476-060XXX	6	MJ6 X 1-4h6h	3.7- 4.7	5.22- 5.48	10.6	9.8	8	1.2	6.92- 7.50
MA3476-070XXX	7	MJ7 X 1-4h6h	4.7- 5.7	6.22- 6.48	12.1	11.3	9	1.4	7.62- 8.20
MA3476-080XXX	8	MJ8 X 1-4h6h	5.7- 6.7	7.22- 7.48	13.6	12.8	10	1.6	8.02- 8.60
MA3476-100XXX	10	MJ10 X 1.25-4h6h	7.4- 8.4	9.06- 9.32	16.7	15.7	12	2.0	9.40-10.10
MA3476-120XXX	12	MJ12 X 1.25-4h6h	9.4-10.4	11.06-11.32	19.9	18.8	14	2.4	10.70-11.40

TABLE 1B - PART NUMBERS AND DIMENSIONS R, Y, AA, AB, AC, AND WRENCHING DASH NO.

PART NUMBER /10/	R	Y MIN	AA TOL	AB TOL	AC TOL	WRENCHING CONFIGURATION DASH NO. /9/
MA3476-050XXX	0.3-0.5	2.8	0.0030	0.13	0.12	07
MA3476-060XXX	0.5-0.7	3.5	0.0030	0.15	0.12	08
MA3476-070XXX	0.5-0.7	3.8	0.0030	0.18	0.15	09
MA3476-080XXX	0.5-0.7	3.9	0.0030	0.20	0.15	10
MA3476-100XXX	0.6-0.8	4.2	0.0025	0.25	0.15	12
MA3476-120XXX	0.6-0.9	4.5	0.0025	0.30	0.18	14

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	(R) BOLT, MACHINE - SPLINE EXTENDED WASHER, FULL HEAD, PD SHANK, LONG THREAD, NICKEL ALLOY (UNS N07718) - METRIC		

TABLE 2 - DASH NO., DIMENSIONS L, M, N, AND APPROX MASS

SIZE	DASH NO. /10/	L	M MAX	N MIN	APPROX MASS kg/100
MJ5 X 0.8	050008	7.7- 8.3	2.1	0.5	0.369
	050010	9.7-10.3	2.1	0.5	0.395
	050012	11.7-12.3	2.1	0.5	0.421
	050014	13.7-14.3	2.1	0.5	0.446
	050016	15.7-16.3	2.1	0.5	0.472
	050018	17.7-18.3	2.1	0.5	0.498
	050020	19.7-20.3	4.0	0.9	0.523
	050022	21.7-22.3	6.0	2.9	0.549
	050024	23.7-24.3	8.0	4.9	0.574
	050026	25.7-26.3	10.0	6.9	0.599
	050028	27.7-28.3	12.0	8.9	0.625
	050030	29.7-30.3	14.0	10.9	0.650
	050032	31.7-32.3	16.0	12.9	0.676
	050034	33.7-34.3	18.0	14.9	0.701
	050036	35.7-36.3	20.0	16.9	0.727
	050038	37.7-38.3	22.0	18.9	0.752
	050040	39.7-40.3	24.0	20.9	0.777
	050042	41.7-42.3	26.0	22.9	0.803
	050044	43.7-44.3	28.0	24.9	0.828
	050046	45.7-46.3	30.0	26.9	0.853
	050048	47.7-48.3	32.0	28.9	0.879
	050050	49.7-50.3	34.0	30.9	0.904
	050052	51.7-52.3	36.0	32.9	0.930
	050054	53.7-54.3	38.0	34.9	0.955
	050056	55.7-56.3	40.0	36.9	0.981
	050058	57.7-58.3	42.0	38.9	1.006
	050060	59.7-60.3	44.0	40.9	1.031
	050064	63.7-64.3	48.0	44.9	1.082
	050068	67.7-68.3	52.0	48.9	1.133

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

SIZE	DASH NO. /10/	L	M MAX	N MIN	APPROX MASS kg/100
MJ6 X 1	060010	9.7-10.3	2.7	0.7	0.628
	060012	11.7-12.3	2.7	0.7	0.664
	060014	13.7-14.3	2.7	0.7	0.701
	060016	15.7-16.3	2.7	0.7	0.737
	060018	17.7-18.3	2.7	0.7	0.774
	060020	19.7-20.3	2.7	0.7	0.811
	060022	21.7-22.3	4.0	0.7	0.847
	060024	23.7-24.3	6.0	2.5	0.884
	060026	25.7-26.3	8.0	4.5	0.920
	060028	27.7-28.3	10.0	6.5	0.956
	060030	29.7-30.3	12.0	8.5	0.993
	060032	31.7-32.3	14.0	10.5	1.029
	060034	33.7-34.3	16.0	12.5	1.065
	060036	35.7-36.3	18.0	14.5	1.102
	060038	37.7-38.3	20.0	16.5	1.138
	060040	39.7-40.3	22.0	18.5	1.174
	060042	41.7-42.3	24.0	20.5	1.210
	060044	43.7-44.3	26.0	22.5	1.247
	060046	45.7-46.3	28.0	24.5	1.283
	060048	47.7-48.3	30.0	26.5	1.319
	060050	49.7-50.3	32.0	28.5	1.356
	060052	51.7-52.3	34.0	30.5	1.392
	060054	53.7-54.3	36.0	32.5	1.428
	060056	55.7-56.3	38.0	34.5	1.464
	060058	57.7-58.3	40.0	36.5	1.501
	060060	59.7-60.3	42.0	38.5	1.537
	060064	63.7-64.3	46.0	42.5	1.610
	060068	67.7-68.3	50.0	46.6	1.682
	060072	71.7-72.3	54.0	50.5	1.755
	060076	75.7-76.3	58.0	54.5	1.828
	060080	79.7-80.3	62.0	58.5	1.900
	060084	83.7-84.3	66.0	62.5	1.973

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

SIZE	DASH NO. /10/	L	M MAX	N MIN	APPROX MASS kg/100
MJ7 X 1	070010	9.7-10.3	2.7	0.7	0.873
	070012	11.7-12.3	2.7	0.7	0.925
	070014	13.7-14.3	2.7	0.7	0.976
	070016	15.7-16.3	2.7	0.7	1.028
	070018	17.7-18.3	2.7	0.7	1.080
	070020	19.7-20.3	2.7	0.7	1.132
	070022	21.7-22.3	2.7	0.7	1.183
	070024	23.7-24.3	4.0	0.7	1.235
	070026	25.7-26.3	6.0	2.5	1.286
	070028	27.7-28.3	8.0	4.5	1.337
	070030	29.7-30.3	10.0	6.5	1.388
	070032	31.7-32.3	12.0	8.5	1.440
	070034	33.7-34.3	14.0	10.5	1.491
	070036	35.7-36.3	16.0	12.5	1.542
	070038	37.7-38.3	18.0	14.5	1.593
	070040	39.7-40.3	20.0	16.5	1.645
	070042	41.7-42.3	22.0	18.5	1.696
	070044	43.7-44.3	24.0	20.5	1.748
	070046	45.7-46.3	26.0	22.5	1.798
	070048	47.7-48.3	28.0	24.5	1.850
	070050	49.7-50.3	30.0	26.5	1.901
	070052	51.7-52.3	32.0	28.5	1.952
	070054	53.7-54.3	34.0	30.5	2.003
	070056	55.7-56.3	36.0	32.5	2.054
	070058	57.7-58.3	38.0	34.5	2.106
	070060	59.7-60.3	40.0	36.5	2.157
	070064	63.7-64.3	44.0	40.5	2.259
	070068	67.7-68.3	48.0	44.5	2.362
	070072	71.7-72.3	52.0	48.5	2.464
	070076	75.7-76.3	56.0	52.5	2.567
070080	79.7-80.3	60.0	56.5	2.669	
070084	83.7-84.3	64.0	60.5	2.772	
070088	87.7-88.3	68.0	64.5	2.874	
070092	91.7-92.3	72.0	68.5	2.976	
070096	95.7-96.3	76.0	72.5	3.079	

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

SIZE	DASH NO. /10/	L	M MAX	N MIN	APPROX MASS kg/100
MJ8 X 1	080010	9.7- 10.3	2.7	0.7	1.158
	080012	11.7- 12.3	2.7	0.7	1.228
	080014	13.7- 14.3	2.7	0.7	1.298
	080016	15.7- 16.3	2.7	0.7	1.366
	080018	17.7- 18.3	2.7	0.7	1.436
	080020	19.7- 20.3	2.7	0.7	1.504
	080022	21.7- 22.3	2.7	0.7	1.574
	080024	23.7- 24.3	2.7	0.7	1.644
	080026	25.7- 26.3	4.0	0.7	1.712
	080028	27.7- 28.3	6.0	2.5	1.782
	080030	29.7- 30.3	8.0	4.5	1.850
	080032	31.7- 32.3	10.0	6.5	1.918
	080034	33.7- 34.3	12.0	8.5	1.988
	080036	35.7- 36.3	14.0	10.5	2.056
	080038	37.7- 38.3	16.0	12.5	2.124
	080040	39.7- 40.3	18.0	14.5	2.194
	080042	41.7- 42.3	20.0	16.5	2.262
	080044	43.7- 44.3	22.0	18.5	2.330
	080046	45.7- 46.3	24.0	20.5	2.400
	080048	47.7- 48.3	26.0	22.5	2.468
	080050	49.7- 50.3	28.0	24.5	2.538
	080052	51.7- 52.3	30.0	26.5	2.606
	080054	53.7- 54.3	32.0	28.5	2.674
	080056	55.7- 56.3	34.0	30.5	2.744
	080058	57.7- 58.3	36.0	32.5	2.812
	080060	59.7- 60.3	38.0	34.5	2.880
	080064	63.7- 64.3	42.0	38.5	3.018
	080068	67.7- 68.3	46.0	42.5	3.156
	080072	71.7- 72.3	50.0	46.5	2.294
	080076	75.7- 76.3	54.0	50.5	3.430
	080080	79.7- 80.3	58.0	54.5	3.568
	080084	83.7- 84.3	62.0	58.5	3.706
080088	87.7- 88.3	66.0	62.5	3.842	
080092	91.7- 92.3	70.0	66.5	3.980	
080096	95.7- 96.3	74.0	70.5	4.118	
080100	99.7-100.3	78.0	74.5	4.256	
080104	103.7-104.3	82.0	78.5	4.392	
080108	107.7-108.3	86.0	82.5	4.530	
080112	111.7-112.3	90.0	86.5	4.668	

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

SIZE	DASH NO. /10/	L	M MAX	N MIN	APPROX MASS kg/100
MJ10 X 1.25	100014	13.7- 14.3	3.3	0.8	2.172
	100016	15.7- 16.3	3.3	0.8	2.280
	100018	17.7- 18.3	3.3	0.8	2.388
	100020	19.7- 20.3	3.3	0.8	2.496
	100022	21.7- 22.3	3.3	0.8	2.604
	100024	23.7- 24.3	3.3	0.8	2.712
	100026	25.7- 26.3	3.3	0.8	2.820
	100028	27.7- 28.3	3.3	0.8	2.930
	100030	29.7- 30.3	4.0	0.8	3.038
	100032	31.7- 32.3	6.0	2.0	3.146
	100034	33.7- 34.3	8.0	4.0	3.252
	100036	35.7- 36.3	10.0	6.0	3.360
	100038	37.7- 38.3	12.0	8.0	3.468
	100040	39.7- 40.3	14.0	10.0	3.574
	100042	41.7- 42.3	16.0	12.0	3.682
	100044	43.7- 44.3	18.0	14.0	3.790
	100046	45.7- 46.3	20.0	16.0	3.896
	100048	47.7- 48.3	22.0	18.0	4.004
	100050	49.7- 50.3	24.0	20.0	4.112
	100052	51.7- 52.3	26.0	22.0	4.218
	100054	53.7- 54.3	28.0	24.0	4.324
	100056	55.7- 56.3	30.0	26.0	4.434
	100058	57.7- 58.3	32.0	28.0	4.540
	100060	59.7- 60.3	34.0	30.0	4.648
	100064	63.7- 64.3	38.0	34.0	4.864
	100068	67.7- 68.3	42.0	38.0	5.078
	100072	71.7- 72.3	46.0	42.0	5.292
	100076	75.7- 76.3	50.0	46.0	5.508
	100080	79.7- 80.3	54.0	50.0	5.722
	100084	83.7- 84.3	58.0	54.0	5.936
	100088	87.7- 88.3	62.0	58.0	6.152
	100092	91.7- 92.3	66.0	62.0	6.366
	100096	95.7- 96.3	70.0	66.0	6.582
	100100	99.7-100.3	74.0	70.0	6.796
	100104	103.7-104.3	78.0	74.0	7.010
	100108	107.7-108.3	82.0	78.0	7.226
	100112	111.7-112.3	86.0	82.0	7.440
	100116	115.7-116.3	90.0	86.0	7.654
	100120	119.7-120.3	94.0	90.0	7.870
	100124	123.7-124.3	98.0	94.0	8.084
100128	127.7-128.3	102.0	98.0	8.300	
100132	131.7-132.3	106.0	102.0	8.514	
100136	135.7-136.3	110.0	106.0	8.728	
100140	139.7-140.3	114.0	110.0	8.944	

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