

USER ACTIVITIES

REVIEWER ACTIVITIES  
DLA-IS

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AMSC N/A

DIRECTION OF GRAIN		B		Ø 210 200		R 500		205 195		750		380 370		A		295 285		Ø 395 385		R 500	
MARK PART NO AND MANUFACTURER'S IDENTIFICATION PER AS 478-CLASS D																					

TABLE 1. DASH NUMBERS AND DIMENSIONS

B LENGTH	A-LENGTH						
	562	.625	.688	750	812	875	938
438	-005 <sup>1</sup> / <sub>2</sub>	-035 <sup>1</sup> / <sub>2</sub>	-065 <sup>1</sup> / <sub>2</sub>	-095 <sup>1</sup> / <sub>2</sub>	-125	-155 <sup>1</sup> / <sub>2</sub>	-185
500	-006 <sup>1</sup> / <sub>2</sub>	-036 <sup>1</sup> / <sub>2</sub>	-066 <sup>1</sup> / <sub>2</sub>	-096 <sup>1</sup> / <sub>2</sub>	-126	-156 <sup>1</sup> / <sub>2</sub>	-186
562	-007 <sup>1</sup> / <sub>2</sub>	-037 <sup>1</sup> / <sub>2</sub>	-067 <sup>1</sup> / <sub>2</sub>	-097 <sup>1</sup> / <sub>2</sub>	-127	-157 <sup>1</sup> / <sub>2</sub>	-187
.625	-008 <sup>1</sup> / <sub>2</sub>	-038 <sup>1</sup> / <sub>2</sub>	-068 <sup>1</sup> / <sub>2</sub>	-098 <sup>1</sup> / <sub>2</sub>	-128	-158 <sup>1</sup> / <sub>2</sub>	-188
.688	-009 <sup>1</sup> / <sub>2</sub>	-039 <sup>1</sup> / <sub>2</sub>	-069 <sup>1</sup> / <sub>2</sub>	-099 <sup>1</sup> / <sub>2</sub>	-129	-159 <sup>1</sup> / <sub>2</sub>	-189
750	-010 <sup>1</sup> / <sub>2</sub>	-040 <sup>1</sup> / <sub>2</sub>	-070 <sup>1</sup> / <sub>2</sub>	-100 <sup>1</sup> / <sub>2</sub>	-130	-160 <sup>1</sup> / <sub>2</sub>	-190
812	-011 <sup>1</sup> / <sub>2</sub>	-041 <sup>1</sup> / <sub>2</sub>	-071 <sup>1</sup> / <sub>2</sub>	-101 <sup>1</sup> / <sub>2</sub>	-131	-161 <sup>1</sup> / <sub>2</sub>	-191
.875	-012 <sup>1</sup> / <sub>2</sub>	-042 <sup>1</sup> / <sub>2</sub>	-072 <sup>1</sup> / <sub>2</sub>	-102 <sup>1</sup> / <sub>2</sub>	-132	-162 <sup>1</sup> / <sub>2</sub>	-192
938	-013 <sup>1</sup> / <sub>2</sub>	-043 <sup>1</sup> / <sub>2</sub>	-073 <sup>1</sup> / <sub>2</sub>	-103 <sup>1</sup> / <sub>2</sub>	-133	-163 <sup>1</sup> / <sub>2</sub>	-193
1.000	-014 <sup>1</sup> / <sub>2</sub>	-044 <sup>1</sup> / <sub>2</sub>	-074 <sup>1</sup> / <sub>2</sub>	-104 <sup>1</sup> / <sub>2</sub>	-134	-164 <sup>1</sup> / <sub>2</sub>	-194
1.062	-015 <sup>1</sup> / <sub>2</sub>	-045 <sup>1</sup> / <sub>2</sub>	-075 <sup>1</sup> / <sub>2</sub>	-105 <sup>1</sup> / <sub>2</sub>	-135	-165 <sup>1</sup> / <sub>2</sub>	-195
1.125	-016 <sup>1</sup> / <sub>2</sub>	-046 <sup>1</sup> / <sub>2</sub>	-076 <sup>1</sup> / <sub>2</sub>	-106 <sup>1</sup> / <sub>2</sub>	-136	-166 <sup>1</sup> / <sub>2</sub>	-196
1.188	-017 <sup>1</sup> / <sub>2</sub>	-047 <sup>1</sup> / <sub>2</sub>	-077 <sup>1</sup> / <sub>2</sub>	-107 <sup>1</sup> / <sub>2</sub>	-137	-167 <sup>1</sup> / <sub>2</sub>	-197
1.250	-018 <sup>1</sup> / <sub>2</sub>	-048 <sup>1</sup> / <sub>2</sub>	-078 <sup>1</sup> / <sub>2</sub>	-108 <sup>1</sup> / <sub>2</sub>	-138	-168 <sup>1</sup> / <sub>2</sub>	-198
1.312	-019 <sup>1</sup> / <sub>2</sub>	-049 <sup>1</sup> / <sub>2</sub>	-079 <sup>1</sup> / <sub>2</sub>	-109 <sup>1</sup> / <sub>2</sub>	-139	-169 <sup>1</sup> / <sub>2</sub>	-199
1.375	-020 <sup>1</sup> / <sub>2</sub>	-050 <sup>1</sup> / <sub>2</sub>	-080 <sup>1</sup> / <sub>2</sub>	-110 <sup>1</sup> / <sub>2</sub>	-140	-170 <sup>1</sup> / <sub>2</sub>	-200
1.438	-021 <sup>1</sup> / <sub>2</sub>	-051 <sup>1</sup> / <sub>2</sub>	-081 <sup>1</sup> / <sub>2</sub>	-111 <sup>1</sup> / <sub>2</sub>	-141	-171 <sup>1</sup> / <sub>2</sub>	-201
1.500	-022 <sup>1</sup> / <sub>2</sub>	-052 <sup>1</sup> / <sub>2</sub>	-082 <sup>1</sup> / <sub>2</sub>	-112 <sup>1</sup> / <sub>2</sub>	-142	-172 <sup>1</sup> / <sub>2</sub>	-202

<sup>1</sup>/<sub>2</sub> PREFERRED SIZES

**(B) ENTIRE STANDARD REVISED**

PA NAVY-AS	INTERNATIONAL INTEREST	TITLE BRACKET, ANGLE, 90°, CRES .190 x .375 BOLT	MILITARY STANDARD MS9603
Other Call			
AIR FORCE-11			
PROCUREMENT SPECIFICATION NONE	SUPERSEDES MS9231	PAGE 1	OF 3

DD FORM 672-1 (COORDINATED)

PRELIMINARY TO THIS STANDARD

5340-1827

REVISED (B) 5 JUN 87

APPROVED 22 NOV 66

FED SUP CLASS  
5340

TABLE I DASH NUMBERS AND DIMENSIONS - CONTINUED

B LENGTH	A-LENGTH					
	1.000	1.062	1.125	1.188	1.250	1.312
DASH NUMBERS						
.438	-215 <sup>1</sup> / <sub>2</sub>	-245	-275 <sup>1</sup> / <sub>2</sub>	-305	-335 <sup>1</sup> / <sub>2</sub>	-365
.500	-216 <sup>1</sup> / <sub>2</sub>	-246	-276 <sup>1</sup> / <sub>2</sub>	-306	-336 <sup>1</sup> / <sub>2</sub>	-366
.562	-217 <sup>1</sup> / <sub>2</sub>	-247	-277 <sup>1</sup> / <sub>2</sub>	-307	-337 <sup>1</sup> / <sub>2</sub>	-367
.625	-218 <sup>1</sup> / <sub>2</sub>	-248	-278 <sup>1</sup> / <sub>2</sub>	-308	-338 <sup>1</sup> / <sub>2</sub>	-368
.688	-219 <sup>1</sup> / <sub>2</sub>	-249	-279 <sup>1</sup> / <sub>2</sub>	-309	-339 <sup>1</sup> / <sub>2</sub>	-369
.750	-220 <sup>1</sup> / <sub>2</sub>	-250	-280 <sup>1</sup> / <sub>2</sub>	-310	-340 <sup>1</sup> / <sub>2</sub>	-370
.812	-221 <sup>1</sup> / <sub>2</sub>	-251	-281 <sup>1</sup> / <sub>2</sub>	-311	-341 <sup>1</sup> / <sub>2</sub>	-371
.875	-222 <sup>1</sup> / <sub>2</sub>	-252	-282 <sup>1</sup> / <sub>2</sub>	-312	-342 <sup>1</sup> / <sub>2</sub>	-372
.938	-223 <sup>1</sup> / <sub>2</sub>	-253	-283 <sup>1</sup> / <sub>2</sub>	-313	-343 <sup>1</sup> / <sub>2</sub>	-373
1.000	-224 <sup>1</sup> / <sub>2</sub>	-254	-284 <sup>1</sup> / <sub>2</sub>	-314	-344 <sup>1</sup> / <sub>2</sub>	-374
1.062	-225 <sup>1</sup> / <sub>2</sub>	-255	-285 <sup>1</sup> / <sub>2</sub>	-315	-345 <sup>1</sup> / <sub>2</sub>	-375
1.125	-226 <sup>1</sup> / <sub>2</sub>	-256	-286 <sup>1</sup> / <sub>2</sub>	-316	-346 <sup>1</sup> / <sub>2</sub>	-376
1.188	-227 <sup>1</sup> / <sub>2</sub>	-257	-287 <sup>1</sup> / <sub>2</sub>	-317	-347 <sup>1</sup> / <sub>2</sub>	-377
1.250	-228 <sup>1</sup> / <sub>2</sub>	-258	-288 <sup>1</sup> / <sub>2</sub>	-318	-348 <sup>1</sup> / <sub>2</sub>	-378
1.312	-229 <sup>1</sup> / <sub>2</sub>	-259	-289 <sup>1</sup> / <sub>2</sub>	-319	-349 <sup>1</sup> / <sub>2</sub>	-379
1.375	-230 <sup>1</sup> / <sub>2</sub>	-260	-290 <sup>1</sup> / <sub>2</sub>	-320	-350 <sup>1</sup> / <sub>2</sub>	-380
1.438	-231 <sup>1</sup> / <sub>2</sub>	-261	-291 <sup>1</sup> / <sub>2</sub>	-321	-351 <sup>1</sup> / <sub>2</sub>	-381
1.500	-232 <sup>1</sup> / <sub>2</sub>	-262	-292 <sup>1</sup> / <sub>2</sub>	-322	-352 <sup>1</sup> / <sub>2</sub>	-382

<sup>1</sup>/ PREFERRED SIZES

TABLE I. DASH NUMBERS AND DIMENSIONS - CONTINUED

B LENGTH	A-LENGTH						
	1.375	1.438	1.500	1.625	1.750	1.875	2.000
DASH NUMBERS							
.438	-395 <sup>1</sup> / <sub>2</sub>	-425	-455 <sup>1</sup> / <sub>2</sub>	-515 <sup>1</sup> / <sub>2</sub>	-575 <sup>1</sup> / <sub>2</sub>	-635 <sup>1</sup> / <sub>2</sub>	-695 <sup>1</sup> / <sub>2</sub>
.500	-396 <sup>1</sup> / <sub>2</sub>	-426	-456 <sup>1</sup> / <sub>2</sub>	-516 <sup>1</sup> / <sub>2</sub>	-576 <sup>1</sup> / <sub>2</sub>	-636 <sup>1</sup> / <sub>2</sub>	-696 <sup>1</sup> / <sub>2</sub>
.562	-397 <sup>1</sup> / <sub>2</sub>	-427	-457 <sup>1</sup> / <sub>2</sub>	-517 <sup>1</sup> / <sub>2</sub>	-577 <sup>1</sup> / <sub>2</sub>	-637 <sup>1</sup> / <sub>2</sub>	-697 <sup>1</sup> / <sub>2</sub>
.625	-398 <sup>1</sup> / <sub>2</sub>	-428	-458 <sup>1</sup> / <sub>2</sub>	-518 <sup>1</sup> / <sub>2</sub>	-578 <sup>1</sup> / <sub>2</sub>	-638 <sup>1</sup> / <sub>2</sub>	-698 <sup>1</sup> / <sub>2</sub>
.688	-399 <sup>1</sup> / <sub>2</sub>	-429	-459 <sup>1</sup> / <sub>2</sub>	-519 <sup>1</sup> / <sub>2</sub>	-579 <sup>1</sup> / <sub>2</sub>	-639 <sup>1</sup> / <sub>2</sub>	-699 <sup>1</sup> / <sub>2</sub>
.750	-400 <sup>1</sup> / <sub>2</sub>	-430	-460 <sup>1</sup> / <sub>2</sub>	-520 <sup>1</sup> / <sub>2</sub>	-580 <sup>1</sup> / <sub>2</sub>	-640 <sup>1</sup> / <sub>2</sub>	-700 <sup>1</sup> / <sub>2</sub>
.812	-401 <sup>1</sup> / <sub>2</sub>	-431	-461 <sup>1</sup> / <sub>2</sub>	-521 <sup>1</sup> / <sub>2</sub>	-581 <sup>1</sup> / <sub>2</sub>	-641 <sup>1</sup> / <sub>2</sub>	-701 <sup>1</sup> / <sub>2</sub>
.875	-402 <sup>1</sup> / <sub>2</sub>	-432	-462 <sup>1</sup> / <sub>2</sub>	-522 <sup>1</sup> / <sub>2</sub>	-582 <sup>1</sup> / <sub>2</sub>	-642 <sup>1</sup> / <sub>2</sub>	-702 <sup>1</sup> / <sub>2</sub>
.938	-403 <sup>1</sup> / <sub>2</sub>	-433	-463 <sup>1</sup> / <sub>2</sub>	-523 <sup>1</sup> / <sub>2</sub>	-583 <sup>1</sup> / <sub>2</sub>	-643 <sup>1</sup> / <sub>2</sub>	-703 <sup>1</sup> / <sub>2</sub>
1.000	-404 <sup>1</sup> / <sub>2</sub>	-434	-464 <sup>1</sup> / <sub>2</sub>	-524 <sup>1</sup> / <sub>2</sub>	-584 <sup>1</sup> / <sub>2</sub>	-644 <sup>1</sup> / <sub>2</sub>	-704 <sup>1</sup> / <sub>2</sub>
1.062	-405 <sup>1</sup> / <sub>2</sub>	-435	-465 <sup>1</sup> / <sub>2</sub>	-525 <sup>1</sup> / <sub>2</sub>	-585 <sup>1</sup> / <sub>2</sub>	-645 <sup>1</sup> / <sub>2</sub>	-705 <sup>1</sup> / <sub>2</sub>
1.125	-406 <sup>1</sup> / <sub>2</sub>	-436	-466 <sup>1</sup> / <sub>2</sub>	-526 <sup>1</sup> / <sub>2</sub>	-586 <sup>1</sup> / <sub>2</sub>	-646 <sup>1</sup> / <sub>2</sub>	-706 <sup>1</sup> / <sub>2</sub>
1.188	-407 <sup>1</sup> / <sub>2</sub>	-437	-467 <sup>1</sup> / <sub>2</sub>	-527 <sup>1</sup> / <sub>2</sub>	-587 <sup>1</sup> / <sub>2</sub>	-647 <sup>1</sup> / <sub>2</sub>	-707 <sup>1</sup> / <sub>2</sub>
1.250	-408 <sup>1</sup> / <sub>2</sub>	-438	-468 <sup>1</sup> / <sub>2</sub>	-528 <sup>1</sup> / <sub>2</sub>	-588 <sup>1</sup> / <sub>2</sub>	-648 <sup>1</sup> / <sub>2</sub>	-708 <sup>1</sup> / <sub>2</sub>
1.312	-409 <sup>1</sup> / <sub>2</sub>	-439	-469 <sup>1</sup> / <sub>2</sub>	-529 <sup>1</sup> / <sub>2</sub>	-589 <sup>1</sup> / <sub>2</sub>	-649 <sup>1</sup> / <sub>2</sub>	-709 <sup>1</sup> / <sub>2</sub>
1.375	-410 <sup>1</sup> / <sub>2</sub>	-440	-470 <sup>1</sup> / <sub>2</sub>	-530 <sup>1</sup> / <sub>2</sub>	-590 <sup>1</sup> / <sub>2</sub>	-650 <sup>1</sup> / <sub>2</sub>	-710 <sup>1</sup> / <sub>2</sub>
1.438	-411 <sup>1</sup> / <sub>2</sub>	-441	-471 <sup>1</sup> / <sub>2</sub>	-531 <sup>1</sup> / <sub>2</sub>	-591 <sup>1</sup> / <sub>2</sub>	-651 <sup>1</sup> / <sub>2</sub>	-711 <sup>1</sup> / <sub>2</sub>
1.500	-412 <sup>1</sup> / <sub>2</sub>	-442	-472 <sup>1</sup> / <sub>2</sub>	-532 <sup>1</sup> / <sub>2</sub>	-592 <sup>1</sup> / <sub>2</sub>	-652 <sup>1</sup> / <sub>2</sub>	-712 <sup>1</sup> / <sub>2</sub>

<sup>1</sup>/ PREFERRED SIZES

PA NAVY-AS Other Cust	INTERNATIONAL INTEREST	TITLE BRACKET, ANGLE, 90° CRES, .190 x.375 BOLT	MILITARY STANDARD MS9603
AIR FORCE-II	PROCUREMENT SPECIFICATION NONE	SUPERSEDES MS9231	PAGE 2 OF 3

DD FORM 672-1 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5340-1827

USER ACTIVITIES

REVIEWER ACTIVITIES  
DLA-IS

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APPROVED 22 NOV 66  
REVISED (B) FOR CHANGES SEE PAGES 1, 2 AND 3

USER ACTIVITIES

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Selection for all new engineering and design applications and for repetitive use shall be made from this  
document when applicableFED SUP CLASS  
5340

## REQUIREMENTS.

1. MATERIAL CORROSION RESISTANT STEEL IN ACCORDANCE WITH AMS 5504
2. FINISH . HEAT TREATMENT AND CLEANING IN ACCORDANCE WITH AMS 2550.
3. HARDNESS : ROCKWELL C30-38.
4. DIMENSIONING AND TOLERANCING. DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M
5. TOLERANCES. UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE FOR LINEAR DIMENSION  $\pm .010$  ANGULAR DIMENSIONS  $\pm 5^\circ$
6. EDGES . BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED.
7. PART NUMBER. THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE 1.

EXAMPLE MS9603-005

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      |
      |-----DASH NUMBER
      |
      |-----BASIC MS NUMBER
  
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MS9603-005 INDICATES - BRACKET, ANGLE, 90° CRES, .375 BOLT, .562 LONG X .190 BOLT,  
438 LONG.

## NOTES.

1. ALL DIMENSIONS ARE IN INCHES
2. DO NOT USE UNASSIGNED PART NUMBER
3. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
4. REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN
5. THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE ENGINE AND PROPELLER UTILITY PARTS COMMITTEE OF THE SAE
6. AS AND AMS ARE SAE PUBLICATIONS
7. APPROXIMATE WEIGHT LB/100 = 1.316 (A+B) + 221.

APPROVED 22 NOV 66 REVISED (B) FOR CHANGES SEE PAGES 1, 2 AND 3

P.A. NAVY-AS	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
Other Cust		BRACKET, ANGLE, 90° CRES .190 x .375 BOLT	MS9603
AIR FORCE - II			
PROCUREMENT SPECIFICATION	SUPERSEDES	PAGE	OF
NONE	MS9231	3	3