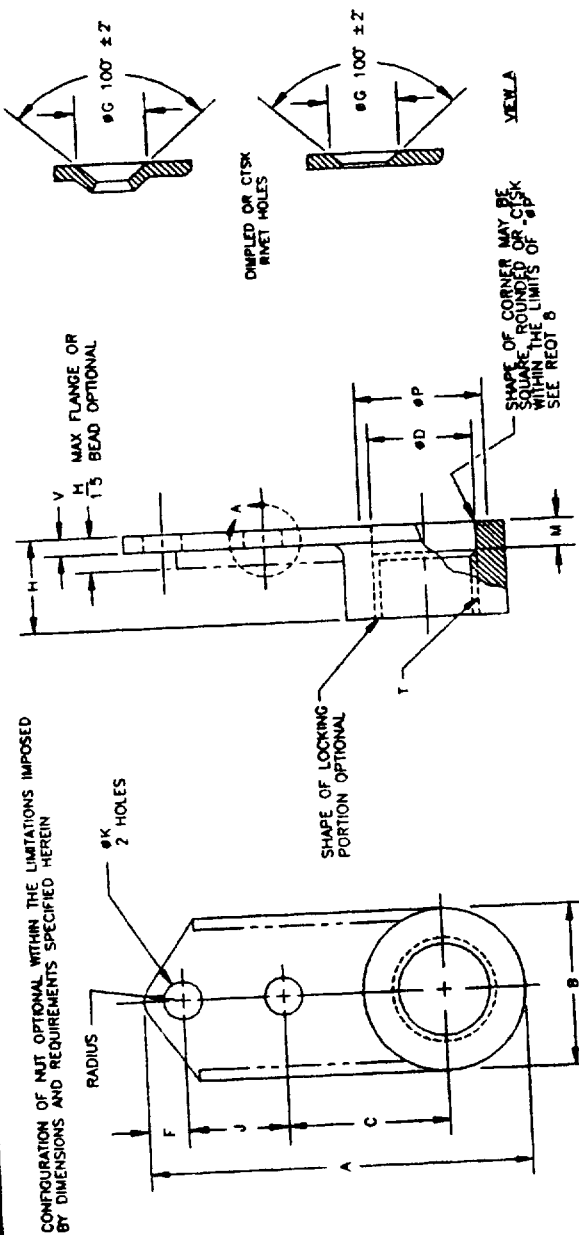


THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DDSSS SPECIFIED IN THE SOLICITATION ML-N-25027

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE



CONFIGURATION OF NUT OPTIONAL WITHIN THE LIMITATIONS IMPOSED BY DIMENSIONS AND REQUIREMENTS SPECIFIED HEREIN

TABLE 1 DASH NUMBERS AND DIMENSIONS

DASH NUMBERS	T		A	B	C	D	E	F	G	H	J	K	M	P	V	AXIAL STRENGTH LBS/MIN	WEIGHT LBS/100
	PLAIN RIVET HOLES	COUNTERSUNK OR DIMPLED RIVET HOLES															
-06	LO6	LO6K	9.35	2.97	2.38	3.44	—	100	200	171	312	0.98	—	208	0.47	1,130	28
-08	LO8	LO8K	9.35	2.97	2.77	3.44	100	200	250	312	0.98	—	—	248	0.47	1,720	29
-3	L3	L3K	9.50	3.28	3.08	3.44	194	200	250	312	0.98	0.82	0.82	274	0.47	2,460	33
-4	L4	L4K	9.93	4.14	3.75	3.44	254	200	281	312	0.98	0.82	0.82	344	0.55	4,580	57
-5	L5	L5K	1.210	5.05	4.85	5.00	317	125	230	328	1.30	1.30	0.82	417	0.65	7,390	96
-6	L6	—	1.264	6.14	5.94	5.00	379	125	230	344	1.30	1.30	0.82	505	0.75	11,450	144
-7	L7	—	1.446	7.26	6.97	5.62	442	156	230	390	1.61	1.61	0.82	602	0.85	16,450	202

MINIMUM "H" NOT SPECIFIED, LIMITED ONLY BY STRENGTH REQUIREMENTS OF THE SPECIFICATION  
 1/ CENTER OF THE TAPPED HOLE SHALL NOT DEVIATE IN ANY DIRECTION FROM THE CENTER OF THE PLATE NOT AS DETERMINED BY THE RIVET HOLES BY MORE THAN .005  
 2/ PLATE NOT AS DETERMINED BY THE RIVET HOLES BY MORE THAN .005  
 3/ DIMPLED RIVET HOLE TOLERANCE FOR "#K" IS + 0.15 - 0.00

INCH-POUND

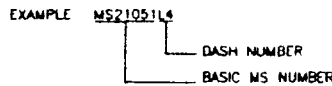
PREPARING ACTIVITY DLA-IS  
 CUSTODIANS ARMY-AV NAVY-AS  
 AIR FORCE-11 DLA-  
 REVIEW 82  
 USER CR, MI  
 PROJECT NUMBER 5310-1946  
 DISTRIBUTION STATEMENT

MILITARY SPECIFICATION SHEET  
 TITLE NUT, SELF-LOCKING PLATE, ONE LUG  
 LOW HEIGHT, STEEL, 125 KSI Flw 450F

SPECIFICATION SHEET NUMBER 1 FEB 94  
 MS21051 REV G  
 SUPERSEDING  
 MS21051 F 30 SEP 87 (SEE NOTE 5)  
 AMSC- N/A FSC 5310

REQUIREMENTS

- (C) 1 **MATERIAL** CARBON STEEL COMPOSITIONS 1035 (UNS G10350) 1040 (UNS G10400) AND 1050 (UNS G10500) IN ACCORDANCE WITH ASTM A827 OR 00-S-700 1042 (UNS G10420) IN ACCORDANCE WITH ASTM A29 ALLOY STEEL GRADES 4130 (UNS G41300) 4340 (UNS G43400) AND 8740 (UNS G87400) IN ACCORDANCE WITH ASTM A29
- 2 **FINISH** CADMIUM PLATE IN ACCORDANCE WITH 00-P-416 TYPE II CLASS 2 FOR DRY FILM LUBRICATED NUTS THE TYPE AND CLASS ARE OPTIONAL IF THE NUTS MEET THE SALT SPRAY REQUIREMENTS OF 00-P-416 TYPE II
- 3 **DIMENSIONING AND TOLERANCING** DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M
- 4 **HARDNESS** 49HRC MAX
- 5 **THREADS** THREADS BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879
- 6 **SURFACE TEXTURE** SURFACE TEXTURE UNLESS OTHERWISE SPECIFIED SHALL NOT EXCEED 125 MICROINCHES IN ACCORDANCE WITH ANSI/ASME B46.1
- 7 **LUBRICANT** DRY FILM LUBRICANT APPROVED IN ACCORDANCE WITH MIL-N-25027 NON-DRY FILM LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN MIL-S-8802
- (C) 8 **EDGES** BREAK ALL SHARP EDGES AND REMOVE ALL BURRS
- 9 **COUNTERBORE/COUNTERSINK** ON SIZE 1/8 AND LARGER COUNTERBORE THREAD "D" DIAMETER X .062 DEEP MINIMUM THREAD RELIEF ON SIZE 1/8 AND SMALLER COUNTERSINK TO ".04" WITHIN THE LIMITS OF D P AND M
- 10 **PART NUMBER** THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I



MS21051L4 INDICATES NUT SELF-LOCKING PLATE ONE LUG LOW HEIGHT STEEL 125 KSI F<sub>u</sub> 450 F 250-25 UNJF-3B DRY FILM LUBRICANT COUNTERSUNK OR DIMPLED RIVET HOLES

NOTES

- 1 ALL DIMENSIONS ARE IN INCHES
- 2 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
- 3 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
- 4 DESIGN AND USAGE LIMITATIONS THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTH OF BOLTS AND SCREWS WITH AN ULTIMATE TENSILE STRENGTH OF 125 KSI BASED ON THE CROSS SECTION AREA AT THE BASIC ROOT DIAMETER OF THE THREADS THESE NUTS ARE DESIGNED TO BE USED ON 3A EXTERNAL THREADS THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF MSJ3588 ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL 25027 SHALL BE USED
- 5 MS21051 SUPERSEDES NAS682 NAS1025 IN PART

INTERCHANGEABILITY RELATIONSHIP

MS21051 NUTS CAN UNIVERSALLY REPLACE NAS682 NUTS OF LIKE MATERIAL THREAD SIZE LUBRICANT (DRY FILM OR NON-DRY FILM LUBRICANT) AND FASTENING METHOD (PLAIN RIVET HOLES DIMPLED OR COUNTERSUNK RIVET HOLES) BUT THESE NAS682 NUTS CANNOT UNIVERSALLY REPLACE MS21051 NUTS

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS
NAS682X06	MS21051-06
NAS682X06K	MS21051-06K
NAS682A06	MS21051L06
NAS682A06K	MS21051L06K
NAS682X08	MS21051-08
NAS682X08K	MS21051-08K
NAS682A08	MS21051L08
NAS682A08K	MS21051L08K
NAS682X3	MS21051-3
NAS682X3K	MS21051-3K
NAS682A3	MS21051L3
NAS682A3K	MS21051L3K
NAS682X4	MS21051-4
NAS682X4K	MS21051-4K
NAS682A4	MS21051L4
NAS682A4K	MS21051L4K
NAS682X5	MS21051-5
NAS682X5K	MS21051-5K
NAS682A5	MS21051L5
NAS682A5K	MS21051L5K
NAS682X6	MS21051-6
NAS682A6	MS21051L6
NAS682X7	MS21051-7
NAS682A7	MS21051L7

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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

PREPARING ACTIVITY DLA-IS CUSTODIANS ARMY-AV NAVY-AS AIR FORCE-11 DLA- REVIEW 82 USER CR MI PROJECT NUMBER 5310-1946	<b>MILITARY SPECIFICATION SHEET</b> TITLE NUT, SELF-LOCKING PLATE ONE LUG LOW HEIGHT STEEL 125 KSI F <sub>u</sub> 450 F	SPECIFICATION SHEET NUMBER <b>MS21051</b> 1 FEB 84 REV G SUPERSEDING MS21051 F 30 SEP 87 (SEE NOTE 5) AMSC- N/A FSC 5310
DISTRIBUTION STATEMENT A Approved for public release distribution is unlimited		Page 2 of 2

INCH - POUND

MS21051G  
AMENDMENT 1  
8 December 1995

MILITARY SPECIFICATION SHEET

NUT, SELF-LOCKING, PLATE, ONE LUG,  
LOW HEIGHT, STEEL, 125 KSI Ft<sub>u</sub> 450°F

This amendment forms a part of MS21051G, dated 1 February 1994, and is approved for use by all Departments and Agencies of the Department of Defense

PAGE 1, TABLE I, COLUMN D

Delete Dimension " 344" and substitute with " 168" on thread size " 164"

Custodians  
Army - AV  
Navy - AS  
Air Force - 99

Preparing Activity  
DLA-IS

(Project No 5310-2212)

AMSC N/A

FSC 5310

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