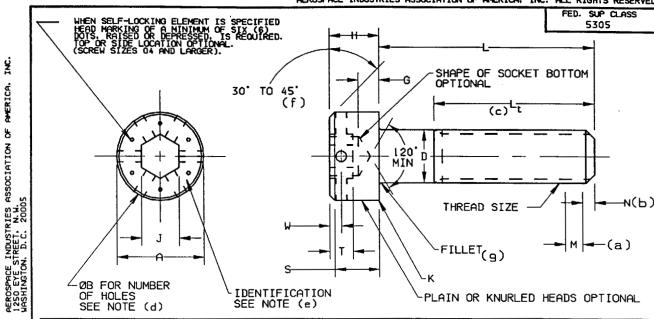
NATIONAL AEROSPACE STANDARD

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	NOMINAL SIZE DASH NO.	THREAD SIZE	D BO DIAME	DY TER	HEA DIAM	AD ETER	H HEA HEI(AD SHT	S HEAD SIDE HEIGHT		T KEY ENGAGEMENT	THICKNESS	K CHAMFER OR RADIUS
l				MIN.	MAX.	MIN.	MAX.	MIN.		NOMINAL	MIN	MIN.	MAX.
l	01	.0730-64	.073	. 0695	.118	.112	. 073	. 070	. 066	. 062	.031	. 025	. 003
ı	02	- 0860-56	.086	. 0822	. 140	- 134	. 086	. 083	. 077	. 078	.038	. 029	. 003
l	03	.0990-48	. 099	. 0949	. 161	. 154	. 099	. 095	. 089	. 078	- 044	. 034	. 003
١	04	.1120-40	.112	.1075	. 183	. 176	.112	. 108	.101	. 094	. 051	. 038	. 005
l	06	.1380-32	. 138	. 1329	. 226	. 218	. 138	. 134	. 124	. 109	. 064	. 047	. 005
ı	08	.1640-32	.164	.1585	. 270	. 262	. 164	. 159	- 148	. 141	. 077	. 056	. 005
١	3	.1900-24	.190	.1840	. 312	. 303	. 190	. 185	. 171	. 156	. 090	. 065	. 005
l	4	. 2500-20	. 250	. 2435	. 375	. 365	. 250	. 244	. 225	. 188	.120	. 095	. 008
l	5	.3125-18	. 3125	. 3053	. 469	. 457	. 312	. 306	. 281	. 250	- 151	.119	. 008
l	6	.3750-16	. 375	. 3678	. 562	. 550	. 375	. 368	. 337	. 312	. 182	- 143	. 008
	7	- 4375-14	. 4375	. 4294	. 656	. 642	. 437	. 430	. 394	. 375	. 213	. 166	.010
	8	.5000-13	.500	. 4919	. 750	. 735	. 500	. 492	. 450	. 375	. 245	. 190	.010
	10	.6250-11	. 625	.6163	. 937	. 921	. 625	.616	. 562	. 500	. 307	. 238	.010
l	12	.7500-10	. 750	. 7406	1.125	1.107	. 750	. 740	. 675	. 625	. 370	. 285	.010
	14	8750-9	. 875	.8647	1.312	1.293	. 875	- 864	. 787	. 750	. 432	. 333	. 015
l	16	1.0000-8	1.000	. 9886	1.500	1.479	1.000	. 988	. 900	. 750	. 495	. 380	.015
	20	1.2500-7	1.250	1.2336	1.875	1.852	1.250	1.236	1.125	. 875	. 620	. 475	. 015
	24	1.5000-6	1.500	1.4818	2.250	2. 224	1.500	1. 485	1.350	1.000	. 745	. 570	.015

LIST OF CURRENT SHEETS

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3	9	
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SHEET 1

OF

(9) COMPLETELY REVISED

CUSTODIAN NATIONAL	AEROSPACE STANDARDS COMMITTEE	THIRD ANGLE PROJECTION
PROCUREMENT SPECIFICATION	TITLE	CLASSIFICATION PART STANDARD
NOTED	SCREW, CAP, SOCKET HEAD UNDRILLED AND DRILLED, PLAIN AND SELF-LOCKING ALLOY STEEL, CORROSION-RESISTANT STEEL AND HEAT-RESISTANT STEEL, UNRC-3A AND UNRC-2A	NAS 1352

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SAME

ASSOCIATION OF PMERICA. INC.

REVISION (9) 31 May 1996

DATE: APRIL 1962 APPROVAL

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ASSOCIATION OF

AEROSPACE INDUSTRIES A. 1250 EYE STREET, N. W. WASHINGTON, D.C. 20005

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	Lt	SAFETY I	IRE HOLE			MINIMUM	BREAKING				
NOMINAL	MINIMUM	DOT: . S		0	D HOLE	STRENGTH (POUNDS)					
SIZE	BASIC THREAD	DRILLE	TION	DKILLE		ALLOY	CORROSION	HEAT			
DASH NO.	LENGTH(c)	MAX.	MIN.	MAX.	MIN.	ALLOY STEEL	RESISTANT STEEL	RESISTANT STEEL			
01						470	210	412			
02	. 625					665	300	592			
03	1 020					875	390	780			
04	750	. 040	. 026			1.090	480	966			
06	. 750	. 050	. 035	. 039	. 033	1.640	730	1.458			
08	. 875	. 060	- 040			2, 520	1.120	2,240			
. 3	.065 .045	. 050	. 044	3, 150	1,400	2.800					
4	1.000	. 085	. 065	. 030	. 044	- 5,400 - 5,700(h)	2,540	5, 090			
5	1.125	.104	. 084			-8,700 9,400(h)	4.190	8.380			
6	1.250	.123	. 103			13, 200- 13, 900(h)	6, 200	12,410			
7	1.375	. 141	. 121			-18,100- 19,100(h)	8,500	17.010			
8	1.500	. 160	. 140	.067	.061	24.100 25.500(h)	11.300	22,700			
10	1.750	. 198	. 178			38, 400	18,100	36, 200			
12	2.000	. 235	.215			56,800	23, 400	53, 500			
14	2. 250	. 273	. 253	. 097	. 091	78, 500	32, 300	73, 900			
16	2.500	.310	. 290			103,000	42, 400	96, 950			
20	3. 125					165,000	67.800	155,100			
24	3. 750					239.000	98, 300	225,000			

- (a) "M" MIN. (5 THREAD PITCHES) = REGION OF MINIMUM ENGAGEMENT WITH FULL FEMALE THREAD REQUIRED TO MEET SPEC MIL-F-18240 REQUIREMENTS.

 LOCKING ELEMENT WITHIN "M" REGION MUST DEVELOP REQUIRED TORQUE WHEN TESTED IN ACCORDANCE WITH SPEC MIL-F-18240.

 LENGTH OR DIAMETER OF LOCKING ELEMENT MAY BE MORE OR LESS THAN "M" PROVIDING ALL OTHER REQUIREMENTS ARE MET.
- (b) "N" = ONE (1) COMPLETE THREAD PLUS UNTHREADED PORTION OF END. FOR EASE OF STARTING. LOCKING ELEMENT SHALL NOT BE EFFECTIVE WITHIN THIS AREA.
- SCREWS WHICH HAVE A LENGTH LESS THAN THE MINIMUM BASIC THREAD LENGTH, SHALL BE THREADED AS CLOSE TO HEAD AS PRACTICABLE. FOR SCREWS WHICH HAVE A LENGTH GREATER THAN THE MINIMUM BASIC THREAD LENGTH, THE BODY AND GRIP LENGTH SHALL BE IN ACCORDANCE WITH ASME/ANSI B18.3.
- DRILLED HOLE DATA IN ACCORDANCE WITH PROCUREMENT SPEC FF-S-86.
 PARTS SHALL HAVE DRILLED HEADS IF SPECIFIED BY CODE H.
 SCREW SIZES 04 AND 06 SHALL HAVE TWO (2) DRILLED HOLES SPACED 180°.
 SCREW SIZES 08 THRU 16 SHALL HAVE SIX (6) DRILLED HOLES SPACED 60°.
 (DRILLED HOLES NOT APPLICABLE TO SCREW SIZES BELOW 04 AND ABOVE 16).
- IDENTIFICATION LETTER "N" IMPRESSED ON THE TOP OR SIDE OF THE HEAD, FOR SCREW SIZES 04 AND LARGER ONLY, TO DENOTE HEAT-RESISTANT STEEL.
- THE INTERSECTION OF THE TOP AND SIDE OF THE HEAD MAY BE CHAMFERED OR RADIUSED AT THE MANUFACTURER'S OPTION PER ASME/ANSI B18.3.
- THE FILLET SHALL BE IN ACCORDANCE WITH ASME/ANSI B18.3. (g)
- MINIMUM BREAKING STRENGTH VALUES ARE BASED ON 180 KSI HEAT TREATMENT, LINED THROUGH STRENGTH VALUES WERE BASED ON 170 KSI. (h)

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SCREW	l							SCRE	W SIZ	ZΕ.								
LENGTH	01	02	03	04	06	08	3	4	S	6	7	8	10	12	14	16	20	24
. 125	-01-2																	
. 188	-01-3	-02-3							\Box	\square'								
. 250	-01-4	-02-4	-03-4	-04-4	-06-4	-08-4												
. 375	-01-6	-02-6	-03-6	-04-6	-06-6	-08-6	-3-6	-4-6	-5-6									
. 500		-02-8	-03-8	-04-8	-06-8	-08-8	-3-8	-4-8	-5-8	-6-8					لــــــا			
. 625			-03-10	-04-10	-06-10	08-10	-3-10	-4-10	-5-10	-6-10	<u> </u>	<u> </u>					لت	
. 750		\square		-04-12	-06-12	-08-12	-3-12	-4-12	-5-12	-6-12	-7-12	-8-12	لــــــــا	لــــا	ل		لـــــا	
. 875					-06-14	-08-14	-3-14	-4-14	-5-14	-6-14	-7-14	-8-14	لـــــا					
1.000		'			-06-16	-08-16	-3-16	-4-16	-5-16	-6-16	-7-16	-8-16	-10-16		ل		لــــــــــــــــــــــــــــــــــــــ	
1.250						-08-20	-3-20	-4-20	-5-20	-6-20	-7-20	-8-20	-10-20			لــــــــــــــــــــــــــــــــــــــ		
1 - 500				<u> </u>		-08-24	-3-24	-4-24	-5-24	-6-24	-7-24	-8-24	-10-24	12-24			لــــــــــــــــــــــــــــــــــــــ	
1.750						'	-3-28	-4-28	-5-28	-6-28	-7-28	-8-28	-10-28	-12-28	لــــــــا		لـــــــا	
2.000							-3-32	_				-8-32					لــــــــــــــــــــــــــــــــــــــ	
2. 250				<u>'</u>	<u> </u>	<u>'</u>		-4-36		_	_	-8-36				-	لـــــــا	
2. 500						\Box '			-5-40	_		-8-40	+					
2. 750	'	<u> </u>		\Box '		'				-6-44	-7-44	-8-44	10-44	-12-44	-14-44	-16-44		
3.000		<u> </u>	'	<u> </u>	<u>['</u>	<u> </u>				-6-48	-7-48	-8-48	-10-48	-12-48	-14-48	-16-48	-20-48	
3. 250	<u> </u>	<u> </u>	'	'	Ĺ'	<u> </u>		<u> </u>		 ′	'	 '	L'	_		-16-52		-
3. 500	<u> </u>	<u> </u>	<u> </u>	<u></u> '	<u></u> '	'		<u></u> '	<u> </u>	└	<u> </u>	<u> </u>	 '	-12-56	<u>-14-56</u>	-16-56	-20-56	-24-
4- 000	'		<u> </u>	<u> </u>		<u> </u>		1		<u> </u>	<u> </u>	<u> </u>	Ĺ'			-16-64		
4- 500	Ĺ'		<u> </u>	<u> </u>		'		<u> </u>	<u> </u>	<u> </u>	 '	 '	Ĺ'	└	<u>-14-72</u> '	-16-72	-20-72	-24-
5.000			Ĺ'	'	<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u></u> '	 '	 '	<u>—</u> —'	 '	-16-80	-20-80	-24
5- 500			Γ '	ſ '		Γ '		<u>i </u>		<u></u> '	<u> </u>	<u> </u>	 '	<u> </u>	<u>(</u>	<u></u> '	-20-88	-24

NOTE:	SEE	CODE	FOR	ADDITIONAL	LENGTHS.

(1) LENGTH TOLERANCE SHALL BE AS FOLLOWS	(1) L	LENGTH	TOLERANCE	SHALL	BE	AS	FOLLOWS
--	-------	--------	-----------	-------	----	----	---------

			SIZE	
	NOMINAL	0 THRU	OVER . 375	OVER . 750
	LENGTH	. 375	THRU . 750	THRU 1.500
			TOLERANCES	
į	UP TO AND	+.000	+. 000	+. 000
	INCL. 1.000	030	030	050
į	OVER 1.000 & INCL. 2.500	+. 000 040	+. 000 060	+. 000 100
	OVER 2.500 &	+. 000	+. 000	+. 000
	INCL. 6.000	060	080	140

THREADS: IN ACCORDANCE WITH PROCUREMENT SPECIFICATION, UNRC-3A FOR NOMINAL DIAMETERS 1.000 INCH AND SMALLER, UNRC-2A FOR NOMINAL DIAMETERS GREATER THAN 1.000 INCH.

MATERIAL: ALLOY STEEL IN ACCORDANCE WITH PROCUREMENT SPEC FF-S-86.

CORROSION-RESISTANT STEEL IN ACCORDANCE WITH PROCUREMENT SPEC FF-S-86.

HEAT-RESISTANT STEEL CONFORMING TO CHEMISTRY OF AMS 5731 (UNS S66286) OR

AMS 5737 (UNS S66286) COLD WORKED AND AGE HARDENED TO MEET THE FASTENER REQUIREMENTS OF FF-S-86 AND THIS STANDARD.

FINISH: ALLOY STEEL - CADMIUM PLATE IN ACCORDANCE WITH SPEC QQ-P-416, TYPE II. CLASS 2-BLACK OXIDE IN ACCORDANCE WITH SPEC MIL-C-13924, CLASS 1.

CORROSION RESISTANT STEEL - CADMIUM PLATE IN ACCORDANCE WITH SPEC QQ-P-416, TYPE I, CLASS 2. EXCEPT POST-PLATE HYDROGEN EMBRITTLEMENT BAKING AND TESTING PER QQ-P-416 ARE NOT REQUIRED.
- SILVER FLASH IN ACCORDANCE WITH AMS 2411.
- PASSIVATE IN ACCORDANCE WITH QQ-P-35.

HEAT-RESISTANT STEEL - SILVER FLASH IN ACCORDANCE WITH AMS 2411.
- PASSIVATE IN ACCORDANCE WITH QQ-P-35.
- BLACK OXIDE IN ACCORDANCE WITH SPEC MIL-C-13924, CLASS 3.
- CADMIUM PLATE IN ACCORDANCE WITH SPEC QQ-P-416, TYPE II. CLASS 2, EXCEPT POST-PLATE HYDROGEN EMBRITTLEMENT BAKING AND TESTING PER QQ-P-416 ARE NOT REQUIRED.

CODE: MATERIAL CODE AFTER BASIC NUMBER.

"-" = ALLOY STEEL.
"C" = CORROSION-RESISTANT STEEL.
"N" = HEAT-RESISTANT STEEL.

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FIRST DASH NUMBER DESIGNATES SCREW THREAD SIZE AS TABULATED.

TYPE CODE AFTER FIRST DASH NUMBER:

"H" = DRILLED HEAD.

"LE" = SELF-LOCKING MALE THREADED FASTENER.

(OPTIONAL TYPE LOCKING ELEMENT IN ACCORDANCE WITH NAS1283).

"LL" = SELF-LOCKING MALE THREADED FASTENER.

(LONGITUDINAL STRIP LOCKING ELEMENT IN ACCORDANCE WITH NAS1283, TYPE L).

"LN" = SELF-LOCKING MALE THREADED FASTENER.

(PELLET LOCKING ELEMENT IN ACCORDANCE WITH NAS1283, TYPE N).

"LB" = SELF-LOCKING MALE THREADED FASTENER.

(PATCH TYPE LOCKING ELEMENT IN ACCORDANCE WITH NAS1283, TYPE P).

SECOND DASH NUMBER DESIGNATES NOMINAL LENGTH IN SIXTEENTHS OF AN INCH AS TABULATED. TABULATED CODING INDICATES PREFERRED LENGTHS.
ADDITIONAL LENGTHS AVAILABLE ON SPECIAL ORDER, MINIMUM RUN BASIS.
FOR SUCH LENGTHS ADDITIONAL CODING MAY BE ASSIGNED TO LENGTHS IN .0625 INCH INCREMENTS UP TO 3.500 INCHES, AND IN .125 INCH INCREMENTS FROM 3.500 INCHES UP TO AND INCLUDING 6.000 INCHES.

FINISH CODE AFTER SECOND DASH NUMBER: ALLOY STEEL, "P" = CADMIUM PLATE.
NO SUFFIX FOR BLACK OXIDE.

CORROSION-RESISTANT STEEL. "P" = CADMIUM PLATE.
"S" = SILVER FLASH. NO SUFFIX FOR PASSIVATE.

HEAT-RESISTANT STEEL. "S" = SILVER FLASH.
"B" = BLACK OXIDE.
"P" = CADMIUM PLATE
NO SUFFIX FOR PASSIVATE.

EXAMPLE: NAS1352-02-8 = .0860-56 UNRC-3A SCREW, CAP. UNDRILLED HEAD.

NAS1352C04H12 = .1120-40 UNRC-3A

SCREW. CAP. SOCKET HEAD, ALLOY STEEL. UNDRILLED HEAD PLAIN. .500 INCH LONG, BLACK OXIDE FINISH.

SCREW. CAP. SOCKET HEAD, CORROSION-RESISTANT STEEL, DRILLED HEAD, PLAIN. .750 INCH LONG, PASSIVATED.

SCREW. CAP. SOCKET HEAD, ALLOY STEEL. SELF-LOCKING. OPTIONAL TYPE LOCKING ELEMENT. 1.000 INCH LONG. CADMIUM PLATE. UNDRILLED HEAD.

SCREW. CAP. SOCKET HEAD. ALLOY STEEL. SELF-LOCKING. OPTIONAL TYPE LOCKING ELEMENT. 1.000 INCH LONG. CADMIUM PLATE. UNDRILLED HEAD. NAS1352-08LE16P = .1640-32 UNRC-3A

CADMIUM PLATE. UNDRILLED HEAD.

NAS1352C4LL24P = .2500-20 UNRC-3A SCREW. CAP. SOCKET HEAD. CORROSION-RESISTANT STEEL. SELF-LOCKING, LONGITUDINAL STRIP LOCKING ELEMENT. 1.500 INCHES LONG, CADMIUM PLATE. UNDRILLED HEAD.

NAS1352N10LN32 = .6250-11 UNRC-3A SCREW. CAP. SOCKET HEAD. HEAT-RESISTANT STEEL. SELF-LOCKING, PASIVATED. UNDRILLED HEAD.

NAS1352N12LB36S = .7500-10 UNRC-3A SCREW. CAP. SOCKET HEAD. HEAT-RESISTANT STEEL. SELF-LOCKING, PATCH TYPE LOCKING ELEMENT. 2.250 INCHES LONG, SILVER FLASH. UNDRILLED HEAD.

NAS1352N4LB16B = .2500-20 INDC-3A SCREW. CAP. SOCKET HEAD. HEAT-RESISTANT STEEL.

NAS1352N4LB16B = .2500-20 UNRC-3A SCREW, CAP, SOCKET HEAD, HEAT-RESISTANT STEEL, SELF-LOCKING, PATCH TYPE LOCKING ELEMENT, 1.000 INCH LONG, BLACK OXIDE COATING, UNDRILLED HEAD.

NOTES:

- (1). LOCKING ELEMENT: EXCEPT AS NOTED HEREIN. THE LOCKING ELEMENT WHEN SPECIFIED SHALL BE IN ACCORDANCE WITH SPEC MIL-F-18240.
- (2). IDENTIFICATION: MANUFACTURER TO IDENTIFY ALL MINIMUM PACKAGES BY PACKAGE MARKING OF APPLICABLE COMPLETE NAS STANDARD PART NO. IN ACCORDANCE WITH MIL-STD-130.
- (3). DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES SHALL BE IN ACCORDANCE WITH FF-S-86. TYPE VI AND ASME/ANSI B18.3.
- (4). REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON THE DATE OF INVITATION FOR BID.
- (5). THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS SPECIFIED HEREIN.
- (6). ADDITIONAL PART MARKING SHALL BE IN ACCORDANCE WITH FF-S-86.

PROCUREMENT SPECIFICATION: FF-S-86: UNLESS OTHERWISE SPECIFIED. CAP SCREWS FURNISHED UNDER THIS STANDARD SHALL BE SUBJECT TO IN-PROCESS CONTROL AND/OR END PRODUCT INSPECTION WHICH WILL INSURE MECHANICAL. METALLURGICAL. CHEMICAL AND COATING OR TREATMENT CHARACTERISTICS WHEN SAMPLED IN ACCORDANCE WITH ANSI/ASOC Z1.4. INSPECTION LEVEL S1. 1% AQL.

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