

FED. SUPPLY CLASS

5305

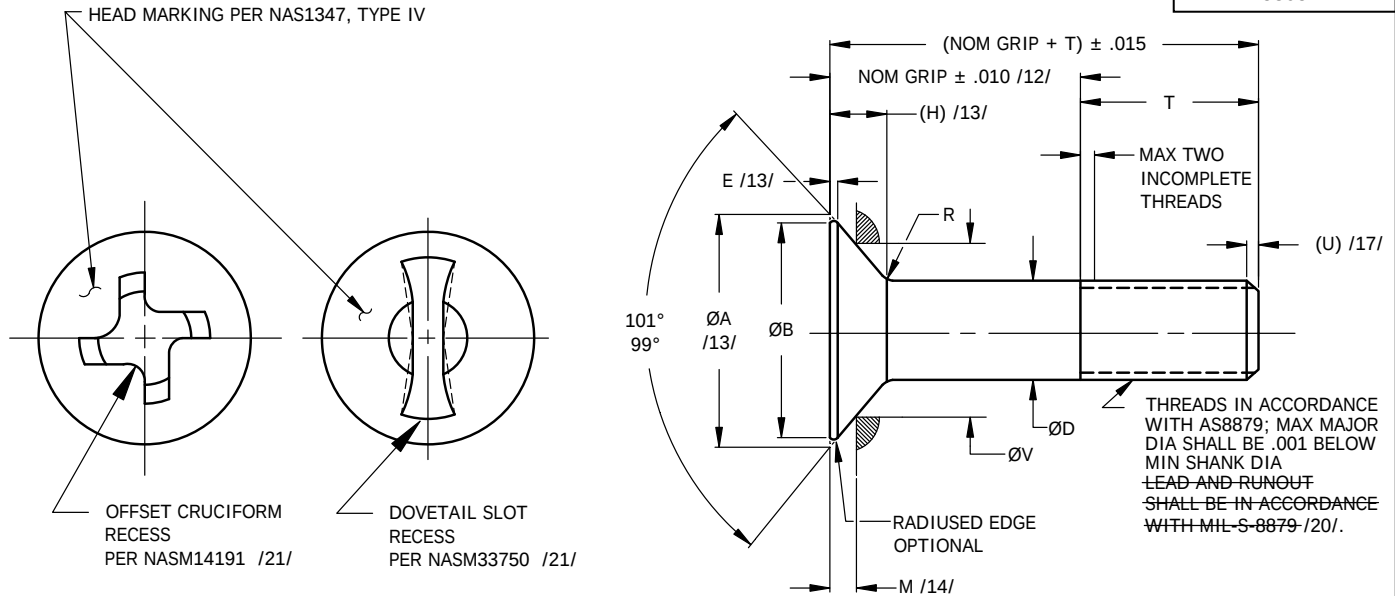


FIGURE 1 – SCREW

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TABLE I – DIMENSIONS /6/

BASIC PART NUMBER	THREAD UNJF – 3A	ØA MAX /13/	ØB MIN	ØD	E MAX /13/	(H) /13/	M GAGE PROT /14/	R RAD	T	(U) /17/	ØV GAGE	Y FIM /15/	Z FIM /16/	DOUBLE SHEAR STRENGTH LBF MIN	TENSILE STRENGTH LBF MIN
NAS583	.1900-32	.3813	.339	.1895 .1885	.015	.083	.0285 .0255	.035 .015	.406	.050	.3147 .3145	.005	.0040	5380	3180
NAS584	.2500-28	.5066	.462	.2495 .2485	.015	.111	.0338 .0309	.035 .015	.469	.050	.4245 .4243	.006	.0030	9300	5790
NAS585	.3125-24	.6335	.578	.3120 .3110	.015	.140	.0409 .0370	.045 .025	.531	.060	.5389 .5387	.007	.0030	14600	9260
NAS586	.3750-24	.7604	.717	.3745 .3735	.015	.167	.0459 .0422	.045 .025	.641	.060	.6532 .6530	.008	.0025	21000	14000
NAS587	.4375-20	.8884	.826	.4370 .4360	.022	.195	.0470 .0425	.055 .035	.656	.080	.7784 .7782	.009	.0025	28600	19000
NAS588	.5000-20	1.0139	.951	.4995 .4985	.022	.222	.0529 .0482	.055 .035	.781	.080	.8902 .8900	.010	.0020	37300	25600
NAS589	.5625-18	1.1408	1.071	.5615 .5605	.025	.250	.0590 .0541	.055 .035	.906	.090	1.0028 1.0026	.010	.0020	47200	32400
NAS590	.6250-18	1.2723	1.201	.6240 .6230	.025	.280	.0683 .0631	.055 .035	.953	.090	1.1124 1.1122	.010	.0020	58300	40900

THIRD ANGLE PROJECTION

PROCUREMENT SPECIFICATION

NOTED

CUSTODIAN

NATIONAL AEROSPACE STANDARDS COMMITTEE

TITLE

SCREW, SHEAR, 100° FLUSH HEAD,
ALLOY STEEL, 95 KSI Fsu

REVISION

16

CLASSIFICATION PART STANDARD

NAS 583-590

SHEET 1 OF 5

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST REVISION DATE.

FORM 09-01

ISSUE DATE: AUGUST 1955 REVISION DATE: OCTOBER 31, 2013

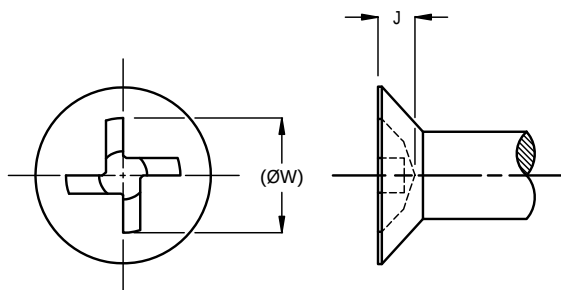


FIGURE 2 – OFFSET CRUCIFORM RECESS

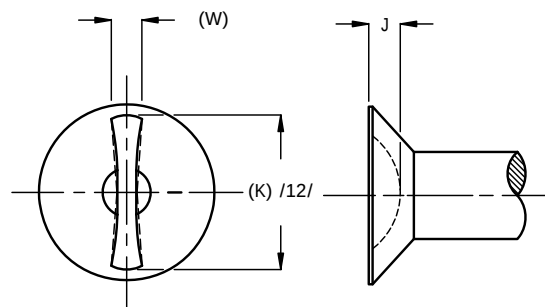


FIGURE 3 – DOVETAIL SLOT RECESS

TABLE II – OFFSET CRUCIFORM DIMENSIONS

BASIC PART NO.	RECESS NO.	J MAX	ØW MAX	GAGE PENETRATION		RECESS TORQUE LBF-IN MIN /18/ /21/		RAISED METAL (IN MAX)
				MIN	MAX			
583	10	.090	.248	.0560	.0685	50	60	.005
584	1/4	.118	.325	.0750	.0890	125	140	.005
585	5/16	.122	.357	.0700	.0860	250	220	.005
586	3/8	.145	.427	.0850	.1030	430	520	.006
587	7/16	.169	.498	.1005	.1205	925	750	.007
588	1/2	.193	.568	.1155	.1375	1210	900	.008
589	9/16	.217	.638	.1305	.1545	1760	1300	.009
590	5/8	.241	.708	.1450	.1710	2460	2100	.010

TABLE III – DOVETAIL SLOT DIMENSIONS

BASIC PART NO.	RECESS NO.	J		(K)	(W)	RECESS TORQUE LBF-IN MIN /18/ /21/		RAISED METAL (IN MAX)
		MIN	MAX					
583	3	.042	.045	.305	.110	50	60	.005
584	4	.051	.054	.442	.134	125	140	.005
585	5	.061	.064	.490	.160	250	220	.005
586	6	.084	.088	.639	.198	430	520	.006
587	7	.096	.100	.715	.224	925	750	.007
588	8	.101	.105	.766	.256	1210	900	.008
589	9	.114	.118	.877	.300	1760	1300	.009
590	10	.137	.141	1.020	.344	2460	2100	.010

MATERIAL:

ALLOY STEEL PER PROCUREMENT SPEC, PLUS ~~4130 (UNS G41300)~~ ALLOY STEEL PER MIL-S-6758 AMS-S-6758 FOR NAS586 AND SMALLER; 4140 (UNS G41400) PER AMS6382, E4340 (UNS G43406) PER AMS6415 OR AMS6484, OR 8740 (UNS G87400) PER AMS6322, AMS6325 OR AMS6327.

HEAT TREAT:

DEVELOP BASIC MATERIAL PROPERTIES AS FOLLOWS WITH CONTROLS PER ~~AMS-H-6875~~ OR AMS2759: 160-180 KSI Ft_u

FINISH:

~~NO LETTER DESIGNATES~~ CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2. /3/

CODE:

DASH NUMBER INDICATES GRIP LENGTH IN .0625 INCH INCREMENTS (~~CONVERTED TO THREE DECIMAL PLACES PER ASME Y14.5~~). INTERMEDIATE AND LONGER GRIP LENGTHS THAN THOSE LISTED ON SHEETS 4 AND 5 MAY BE ORDERED BY USE OF SIGNIFICANT DASH NUMBERS.
CODE LETTER "R" FOLLOWING BASIC NUMBER INDICATES OFFSET CRUCIFORM RECESS PER NASM14191.
NO CODE LETTER FOLLOWING BASIC NUMBER INDICATES DOVETAIL SLOT RECESS PER NASM33750.

REVISION

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NAS Documents
SHEET 2



Document Sharing Hub