

TABLE I

PART NUMBER	NOM. DIA.	THEO. DIA.	A' DIA. MIN.	C MAX.	D DIA.	F DRIVING FLATS	H REF.	J DIA. MAX.	K MAX.	H GAGE PROT.	R RAD.	S MAX.	W GAGE DIA.	HOLE SIZE	BREAK-OFF LIMITS	PREVAILING TORQUE IN. LBS. MIN.	DOUBLE SHEAR STRENGTH LBS. MIN.	TENSILE STRENGTH LBS. MIN.
PLT 170SA-5-(*)	.1635	.332 .325	.296	.285	.1645 .1625	.086 .081	.069	.244	.257	.0276 .0238	.030 .010	.012	.2671 .2667	.168 .165	+0.020 -0.068	1.0	3150	900
PLT 170SA-6-(*)	.1980	.385 .378	.342	.320	.1990 .1970	.104 .099	.077	.300	.288	.0299 .0259	.030 .015	.015	.3147 .3143	.202 .199	+0.015 -0.073	1.5	4600	1400
PLT 170SA-8-(*)	.2590	.507 .499	.463	.355	.2600 .2580	.135 .130	.102	.384	.320	.0353 .0307	.030 .015	.015	.4245 .4241	.263 .260	+0.010 -0.078	2.5	7900	2100
PLT 170SA-10-(*)	.3105	.635 .626	.577	.440	.3115 .3095	.152 .147	.134	.427	.396	.0409 .0357	.040 .020	.020	.5389 .5385	.315 .312	+0.010 -0.083	3.5	11350	3600
PLT 170SA-12-(*)	.3735	.762 .752	.696	.525	.3745 .3725	.185 .180	.160	.516	.473	.0466 .0407	.040 .020	.023	.6532 .6528	.378 .375	+0.010 -0.093	4.0	16450	5600

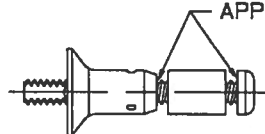
(*) SEE TABLE II FOR SECOND DASH NUMBER AND APPROVED CALLOUT.

TABLE II

SECOND DASH NUMBER	G GRIP	GRIP RANGE		L REF.					SECOND DASH NUMBER	G GRIP	GRIP RANGE		L REF.				
		MIN.	MAX.	PLT170SA							MIN.	MAX.	PLT170SA				
				-5-(*)	-6-(*)	-8-(*)	-10-(*)	-12-(*)					-5-(*)	-6-(*)	-8-(*)	-10-(*)	-12-(*)
-	-	-	-	-	-	-	-	-	-17	1.094	1.032	1.094	NOT AVAILABLE	1.791	1.819	1.971	2.054
-2	.156	.094	.156	.733	.853	-	-	-	-18	1.156	1.095	1.156		1.853	1.881	2.033	2.117
-3	.219	.157	.219	.795	.916	.944	-	-	-19	1.219	1.157	1.219		1.916	1.944	2.096	2.179
-4	.281	.220	.281	.858	.978	1.006	1.158	1.242	-20	1.281	1.220	1.281	1.978	2.006	2.158	2.242	
-5	.344	.282	.344	.920	1.041	1.069	1.221	1.304	-21	1.344	1.282	1.344	2.041	2.069	2.221	2.304	
-6	.406	.345	.406	.983	1.103	1.131	1.283	1.367	-22	1.406	1.345	1.406	2.103	2.131	2.283	2.367	
-7	.469	.407	.469	1.045	1.166	1.194	1.346	1.429	-23	1.469	1.407	1.469	2.166	2.194	2.346	2.429	
-8	.531	.470	.531	1.108	1.228	1.256	1.408	1.492	-24	1.531	1.470	1.531	2.228	2.256	2.408	2.492	
-9	.594	.532	.594	1.170	1.291	1.319	1.471	1.554	-25	1.594	1.532	1.594	2.291	2.319	2.471	2.554	
-10	.656	.595	.656	1.233	1.353	1.381	1.533	1.617	-26	1.656	1.595	1.656	2.353	2.381	2.533	2.617	
-11	.719	.657	.719	1.295	1.416	1.444	1.596	1.679	-27	1.719	1.657	1.719	2.416	2.444	2.596	2.679	
-12	.781	.720	.781	1.358	1.478	1.506	1.658	1.742	-28	1.781	1.720	1.781	2.478	2.506	2.658	2.742	
-13	.844	.782	.844	1.420	1.541	1.569	1.721	1.804	-29	1.844	1.782	1.844	2.541	2.569	2.721	2.804	
-14	.906	.845	.906	1.483	1.603	1.631	1.783	1.867	-30	1.906	1.845	1.906	2.603	2.631	2.783	2.867	
-15	.969	.907	.969	1.545	1.666	1.694	1.846	1.929	-31	1.969	1.907	1.969	2.666	2.694	2.846	2.929	
-16	1.031	.970	1.031	1.608	1.728	1.756	1.908	1.992	-32	2.031	1.970	2.031	2.728	2.756	2.908	2.992	

▲ *G* TOLERANCES: FOR -5 & -6 SIZES +.030/-0.010; FOR -8 & -10 SIZES +.040/-0.010; FOR -12 SIZE +.050/-0.010.

APPLY SEALANT HERE



Fairchild
 CODE IDENT. NO.
 92215

MONOGRAM
 CODE IDENT. NO.
 98524

U.S. PATENT NO. 3643544. OTHER PATENTS PENDING.

APPROVED DATE
 23 APRIL 1980
 REV. LETTER AND DATE
 ECN #0293
 09-22-1999

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TITLE
 VISU-LOK, FASTENER, BLIND INTERNALLY THREADED, EXTERNAL SLEEVE TITANIUM, 75 KSI SHEAR 100° FLUSH HEAD, SELF LOCKING FOR SEALANT APPLICATION

STANDARD
 PLT170SA
 SHEET 1 OF 2

Fairchild

CUSTODIAN: ENGINEERING STANDARD COMMITTEE FOR BLIND BOLTS
3423 SOUTH GARFIELD AVENUE
LOS ANGELES, CALIFORNIA 90040

MF® **MONOGRAM
AEROSPACE
FASTENERS**

PROCUREMENT SPEC. : ESCBB-9, CLASS 2, EXCEPT AS NOTED HEREIN. \triangle

MATERIAL : NUT & SCREW : 6AL-4V TITANIUM PER AMS492B OR AMS4967.
SLEEVE : CORROSION RESISTANT STEEL.

HEAT TREAT : NUT & SCREW : HEAT TREAT PER MIL-H-81200 MAX. HYDROGEN 125 PPM.
SLEEVE : AS REQUIRED FOR PERFORMANCE.

FINISH: NUT & SCREW : NONE, IF REQUIRED FOR FASTENER FUNCTION, THESE COMPONENTS MAY BE COATED WITH DRY FILM LUBE PER MIL-L-46010 OR EVERLUBE 812 PER MIL-L-81329.
SLEEVE : PASSIVATE PER 00-P-35 (MIL-S-5002) AND DRY FILM LUBE PER MIL-L-46010 OR EVERLUBE 812 PER MIL-L-81329.

\triangle LUBRICANT : (SEE FINISH)

PART CODE
& EXAMPLE :

PLT1705A - B - B

GRIP LENGTHS IN 1/16THS (SEE TABLE II).

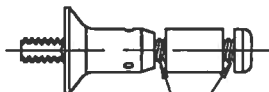
NOMINAL BODY DIAMETER AS TABULATED

BASIC PART NUMBER, SELF LOCKING BLIND FASTENER.
FOR SEALANT APPLICATIONS.

GENERAL NOTES :

- 1.) OUTSIDE DIAMETER OF HEAD OF SCREW AND OUTSIDE DIAMETER OF SLEEVE SHALL NOT BE GREATER THAN MAXIMUM "D" DIAMETER.
- 2.) CONCENTRICITY OF NUT HEAD "A" DIAMETER TO "D" DIAMETER SHALL BE WITHIN .005 T.I.R. EXCEPT OVER INDENTS.
- 3.) REMOVE ALL LOOSE OR HANGING BURRS.
- \triangle 4.) LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120° APART ON THE PERIPHERY OF THE NUT COMPONENT AND APPROXIMATELY .040 ABOVE THE INTERSECTION OF THE NUT NOSE ANGLE AND O.D. (MEAN GRIP OF FASTENER).
- \triangle 5.) MANUFACTURER'S IDENTIFICATION:
LETTER "N" DESIGNATES MONOGRAM AEROSPACE FASTENERS.
LETTERS "VS" DESIGNATE VOI-SHAN.
- 6.) HEAD MARKINGS ON NUT DEPRESSED .010 MAX. LOCATION OPTIONAL.
- \triangle 7.) HALF-GRIP SIZES MAY BE ORDERED BY ADDING (.5) TO THE GRIP DASH NUMBER.
EXAMPLE: PLT1705A-6-4.5 INDICATES A NOMINAL GRIP LENGTH OF 4.5 SIXTEENTHS = .281.
THE GRIP RANGE FOR THESE HALF-GRIP SIZES WILL BE NOMINAL GRIP + .031/- .030.
THE BASIC "G" DIMENSION WILL BE NOMINAL GRIP + .031 AND THE OVERALL SCREW LENGTH "L" DIMENSION MAY VARY AT MANUFACTURER'S OPTION.
- \triangle 8.) STANDARD GRIP LENGTHS ARE SHOWN IN TABLE II, SHORTER OR LONGER GRIPS THAN THOSE LISTED MAY BE AVAILABLE AS SPECIALS. ON GRIP LENGTHS SHORTER THAN THOSE LISTED, THE BREAKOFF LIMITS AND PREVAILING TORQUES SHOWN IN TABLE I DO NOT APPLY.
9. VOI-SHAN ENGINEERING REPORT #803 SHOWS INSTALLATION CHARACTERISTICS AND SEALING TEST RESULTS OF SIMILAR FASTENER.
- \triangle 10. SEALANT MUST BE USED DURING QUALIFICATION AND RETEST.
- \triangle 11. DISTORTION OF "D" DIAMETER SHALL NOT PREVENT INSERTION OF THE FASTENER INTO A RING GAUGE OF LENGTH EQUAL TO ONE DIAMETER AND DIAMETER EQUAL TO "D" MAX. + .001". FORCE FOR INSERTION SHALL NOT EXCEED FIVE (5) POUNDS.
- \triangle 12. DIMENSIONS "A", "A'" AND "H" ARE FOR ENGINEERING REFERENCE PURPOSES ONLY AND ARE NOT TO BE USED FOR INSPECTION PURPOSES. THESE DIMENSIONS ARE THEORETICAL VALUES DERIVED FROM "D", "S", "V", "W" AND HEAD ANGLE DIMENSIONS.
13. DIMENSIONS ARE EXCLUSIVE OF LUBRICATION.

THESE PARTS ARE SUPPLIED IN PARTIALLY DISASSEMBLED CONDITION TO ALLOW APPLICATION OF SEALANT ON THE EXPOSED SCREW THREADS.
DO NOT USE WITHOUT SEALANT.



APPLY SEALANT PRI422 B-2 PER MIL-S-8802
IN THIS AREA.

U.S. PATENT NO. 3643544, OTHER PATENTS PENDING.

MONOGRAM

CODE IDENT. NO.
98524

STANDARD

PLT1705A

SHEET 2 OF 2

Fairchild

CODE IDENT. NO.
92215

APPROVED DATE
23 APRIL 1980

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