

# Alcoa Fastening Systems & Rings

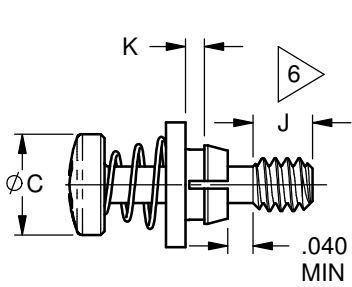
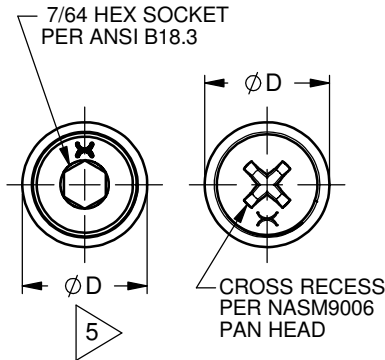


CURRENT DESIGN ACTIVITY  
 CAGE CODE 0HDW7  
 AFSR TUCSON OPERATIONS  
 3724 EAST COLUMBIA STREET  
 TUCSON, ARIZONA 85714  
 PHONE (520) 519-7400  
 FAX (520) 519-7454

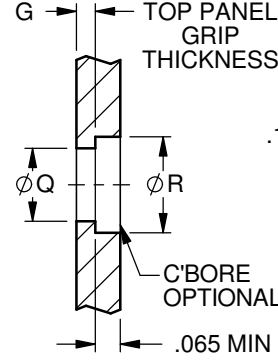
# CAPTIVE SCREW

## ENGINEERING STANDARD

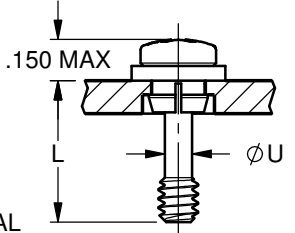
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**SCREW ASSEMBLY BEFORE MOUNTING**

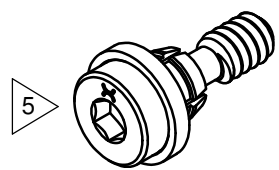


**PANEL PREPARATION**



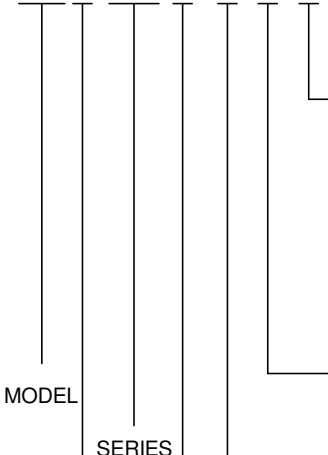
**SCREW ASSEMBLY AFTER MOUNTING**

THREAD SIZE CODE	Ø C MAX	Ø D ±.010	Ø Q +.004 - .001	Ø R +.020 - .000	Ø U +.005 - .000
4	.219	.250	.162	.206	.075
6	.270	.325	.190	.219	.090
8	.322	.375	.228	.250	.117



**PART NUMBER CALLOUT**

CFB ( ) 7950 ( ) - ( ) - ( ) - ( )



LENGTH CODE	L
6.5	.375
7	.425
8	.500
8.3	.530
8.5	.550
9	.562
10	.625
17	1.062

GRIP CODE	G TOP PANEL GRIP THICKNESS	K +.010 - .000
A	.031-.049	.050
B	.050-.075	.076
C	.076-.105	.106

THREAD SIZE CODE	THREAD SIZE PER ASME B1.1
4	.112-40 UNC-3A
6	.138-32 UNC-3A
8	.164-32 UNC-3A

MATERIAL CODE	SCREW MATERIAL
NONE	302 CRES
L	A-286 CRES

THREAD LENGTH CODE	J THREAD SIZE		
	4	6	8
A	.155	.250	.250
T	.250	.155	N/A
N	N/A	.500	N/A
R	N/A	.250	N/A

SIZE 8 AVAILABILITY	
A	7 OR LONGER
B	8 OR LONGER
C	8.3 OR LONGER

**NOTES:**

- SCREW HAS .015 TOTAL FLOAT
- THIS LENGTH IS ONLY AVAILABLE FOR CFB7950( )-4 AND CFBT 7950( )-6.
- SEE TABLE FOR SIZE 8 AVAILABILITY.
- 17 LENGTH ONLY.
- THIS HEAD STYLE IS ONLY AVAILABLE FOR CFB7950(L)-6.
- SPECIFIED THREAD LENGTH AVAILABILITY LIMITED BY SLEEVE GRIP/STUD LENGTH COMBINATION.

**MATERIAL:**

**SCREW:**  
 CFB( )7950: 302 CRES PER ASTM-A-493 OR AMS 5636  
 CFB( )7950L: A-286 CRES PER AMS 5732 OR AMS 5737, HEAT TREAT TO 160KSI MIN. U.T.S

**SLEEVE:**  
 7075-T6 OR 7075-T4 ALUMINUM ALLOY PER AMS 4122 OR AMS QQ-A-225/9

**SPRING:**  
 302 CRES PER AMS 5688 OR ASTM-A-313

**FINISH:**

CFB( )7950(L) EXCEPT CFB7950(L):

SCREW: BLACK OXIDE PER MIL-DTL-13924, CLASS 3 (A-286) OR CLASS 4 (302)

SLEEVE: BLACK ANODIZE PER MIL-A-8625, TYPE II, CLASS 2

SPRING: BLACK OXIDE PER MIL-DTL-13924, CLASS 4

CFBR7950, CFBR7950L:  
 SCREW & SPRING: PASSIVATE PER AMS2700.  
 SLEEVE: BLACK ANODIZE PER MIL-A-8625, TYPE II, CLASS 2

ISSUED	2/10/2006	CAPTIVE SCREW, SNAP-IN, FLOATING, SPRING-LOADED, OPTIONAL RECESS,	TOLERANCE UNLESS OTHERWISE NOTED: .X = ±.05 .XX = ±.02 .XXX = ±.015 ANGLES ±0.5°	DRAWN BY	J. SCHLOBOHM	
	REVISED			3/31/2015	CHECKED BY	SIGNATURE ON FILE
	PAGE			1 OF 1	<b>CFB( )7950</b> <b>S-2825</b>	

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