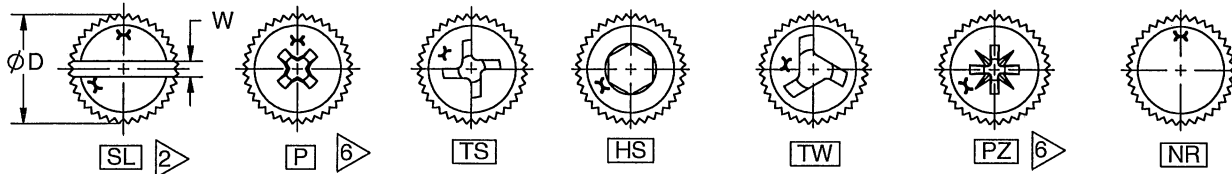
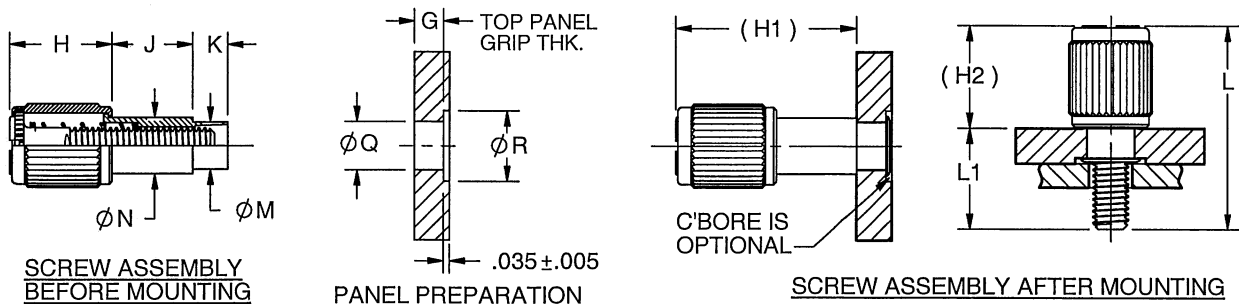


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S-0551

DRAWING NO.



THREAD SIZE CODE	Ø D	H		(H1)		(H2)		J	Ø M ±.005	Ø N ±.005	Ø Q +.004 - .001	Ø R	W	RECESS SIZE			
		HS	P, PZ, SL, TS, TW, NR	HS	P, PZ, SL, TS, TW, NR	HS	P, PZ, SL, TS, TW, NR							P, PZ	TW	TS	HS
4, 4F, M3	.325	.444	.374	.721	.651	.456	.386	.265	.177	.206	.187	.281	.040	4	2	2	3/32
6, 6F, M3.5	.356	.449	.379	.739	.669	.469	.399	.280	.202	.241	.209	.312	.044	4	3	4	7/64
8, 8F, M4	.420	.559	.489	.961	.891	.581	.511	.385	.215	.258	.223	.343	.049	6	4	6	9/64
10, 10C, 10F, M5	.451	.599	.529	1.036	.966	.616	.546	.427	.250	.297	.257	.375	.055	8	5	8	5/32
12, 12C, 12F, M6	.531	.604	.534	1.041	.971	.616	.546	.428	.313	.371	.323	.437	.062	10	6	10	3/16

LENGTH CODE	4, 4F, M3		6, 6F, M3.5		8, 8F, M4		10, 10C, 10F, M5		12, 12C, 12F, M6	
	L +.025 - .015	L ₁	L +.025 - .015	L ₁	L +.025 - .015	L ₁	L +.025 - .015	L ₁	L +.025 - .015	L ₁
1	.639	.253	.650	.251	.685	.174	.832	.286	.745	.199
2	.764	.378	.775	.376	.810	.299	.957	.411	.870	.324
3	.889	.503	.900	.501	.935	.424	1.082	.536	.995	.449
4	1.014	.628	1.025	.626	1.060	.549	1.207	.661	1.120	.574
5	1.139	.753	1.150	.751	1.185	.674	1.332	.786	1.245	.699
6	1.264	.878	1.275	.876	1.310	.799	1.457	.911	1.370	.824
7	1.389	1.003	1.400	1.001	1.435	.924	1.582	1.036	1.495	.949

PART NUMBER CALLOUT

DRSS () 7500 () - () - () - ()

MODEL

SERIES

THREAD SIZE CODE	THREAD SIZE	5	LEAD	THREAD SIZE CODE	THREAD SIZE	5	LEAD
4	.112-40 UNC-3A	SINGLE	QUAD	8F	.164-32 UNC-3A	METRIC	
6	.138-32 UNC-3A			10F	.190-32 UNF-3A		
8	.164-32 UNC-3A			12F	.250-28 UNF-3A		
10	.190-32 UNF-3A			M3	M3 x 0.5-4h6h		
12	.250-28 UNF-3A			M3.5	M3.5 x 0.6-4h6h		
10C	.190-24 UNC-3A			M4	M4 x 0.7-4h6h		
12C	.250-20 UNC-3A	(COARSE)	M5	M5 x 0.8-4h6h			
4F	.112-40 UNC-3A	DOUBLE		M6	M6 x 1.0-4h6h		
6F	.138-32 UNC-3A						

GRIP CODE	G (TOP PANEL GRIP THICKNESS)	K ±.005
AA	.030-.055	.100
A	.031-.062	.125
B	.063-.125	.187
C	.125-.187	.250
D	.188-.250	.312
E	.251-.312	.375
F	.313-.375	.437

CODE	FINISH
NONE	CLEAR
B	BLACK

RECESS CODE	DRIVING RECESS AND SPECIFICATION	RECESS CODE	DRIVING RECESS AND SPECIFICATION
	SLOT RECESS PER ANSI B18.6.3	PZ	RECESS PER TYPE 1A ANSI B18.6.3
HS	HEX SOCKET RECESS PER ANSI B18.3	TS	RECESS PER NASM 33781
NR	NO RECESS	TW	RECESS PER NAS 4000
P	CROSS RECESS PER NASM 9006		

T	DCN 3973	01-24-06
REV	DESCRIPTION/EC NO.	DATE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN INCHES

TOLERANCE UNLESS OTHERWISE NOTED:
 X = ±.05 ANGLES ±0.5°
 .XX = ±.02
 .XXX = ±.015



ALCOA FASTENING SYSTEMS

AEROSPACE FASTENER DIVISION
 3724 EAST COLUMBIA STREET
 TUCSON, ARIZONA 85714
 PHONE 520 519-7400
 FAX 520 519-7427
 www.alcoafasteners.com

TITLE
TURN-LOC, HIGH PROFILE, OPTIONAL RECESS, OPTIONAL SIZE

DATE	PART NUMBER
09/29/2004	DRSS7500
DRAWN	DRAWING NO.
JLS	S-0551
CHECK	CURRENT CAGE CODE
	0HDW7
APPROVE	REV
	T
SCALE: 1:1	
SHEET 1 OF 2	

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S-0551

DRAWING NO.

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AVAILABILITY TABLE

GRIP CODE	4, 4F, M3							6, 6F, M3.5							8, 8F, M4							10, 10C, 10F, M5							12, 12C, 12F, M6											
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7					
AA																																								
A															O																			O						
B															O																			O						
C	O														O	O											O	O						O	O					
D	O														O	O											O	O						O	O					
E	O	O													O	O	O										O	O						O	O	O				
F	O	O	O												O	O	O										O	O						O	O	O				

- O ASSEMBLIES NOT AVAILABLE
- FULLY RETRACTABLE ASSEMBLIES
- ASSEMBLIES NOT FULLY RETRACTABLE (STUD WILL PROTRUDE BELOW MINIMUM TOP PANEL THICKNESS)

MATERIAL

STUD: HS, NR, P, PZ, & SLOT RECESSES
ALL SIZES - 302 CRES PER ASTM-A-493 OR AMS 5636

STUD: TS AND TW RECESSES
ALL SIZES - A-286 CRES PER AMS 5737, HEAT TREAT
TO 160 KSI MIN. ULTIMATE TENSILE STRENGTH

KNOB: 6061 ALUMINUM ALLOY PER AMS-QQ-A-225/8, OR AMS 4117, OR EQUIVALENT

SLEEVE: 304 CRES PER AMS QQ-S-763 OR AMS 5639

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

FINISH

NONE: STUD, SPRING & SLEEVE: PASSIVATE PER AMS-QQ-P-35

KNOB: ANODIZE PER MIL-A-8625, TYPE II, CLASS I

B: STUD:

BLACK OXIDE PER MIL-C-13924, CLASS 4 (300 SERIES)

BLACK OXIDE PER MIL-C-13924, CLASS 3 (A-286)

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

NOTES:

- 1 LETTERS AT THE END OF PART NUMBER DESIGNATE SPECIAL ASSEMBLIES:
DL - ASSEMBLIES WITH DRI LUBE THREADS PER MIL-PRF-46010
PL - ASSEMBLIES WITH PATCH LOCK PER MIL-DTL-18240
- 2 NO CODE REQUIRED FOR SLOTTED HEADS
- 3 WHEN USING THE HEX SOCKET CONFIGURATION, ADD .070 TO "L" LENGTH.
- 4 FOR LONGER LENGTHS, ADD .125 INCREMENTS PER LENGTH CODE
- 5 -3A THREADS PER ASME B1.1. "M" THREADS PER ANSI/ASME B1.13M.
- 6 RECESS IS ONE SIZE SMALLER THAN NOMINAL SIZE REQUIRED FOR 100° FLAT HEAD.
- 7 COMPONENTS ARE FINISHED PRIOR TO THE ASSEMBLY PROCESS. DISCOLORATION OF THE BLACK ANODIZE MAY OCCUR ON THE CRIMPED PORTION OF THE KNOB DURING ASSEMBLY. A HIGH-ADHESION BLACK PAINT IS PERMITTED FOR TOUCH-UP AFTER ASSEMBLY.
- 8 MAY BE USED WITH .020 DEEP C'BORE.

INSTALLATION TOOLS: () INDICATES THREAD SIZE CODE

ARBOR PRESS TOOL HW7600-(), REMOVAL ADAPTER TOOL FNR7505-(), NOSE PIECE HN7513-(),
PULLER HP7523-(), HANDLE ASSEMBLY TA7533;
COMPLETE HAND TOOL ASS'Y: H8603-() (INCLUDES NOSE PIECE, PULLER & HANDLE)

T	DCN 3973	01-24-06
REV	DESCRIPTION/EC NO.	DATE

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS IN INCHES

TOLERANCE UNLESS OTHERWISE
NOTED:

.X = ±.05 ANGLES ±0.5°
.XX = ±.02
.XXX = ±.015



ALCOA FASTENING SYSTEMS

AEROSPACE FASTENER DIVISION
3724 EAST COLUMBIA STREET
TUCSON, ARIZONA 85714
PHONE 520 519-7400
FAX 520 519-7427
www.alcoafasteners.com

TITLE
**TURN-LOC, HIGH PROFILE,
OPTIONAL RECESS,
OPTIONAL SIZE**

DATE	09/29/2004	PART NUMBER	DRSS7500
DRAWN	JLS	DRAWING NO.	S-0551
CHECK	<i>[Signature]</i>	CAGE CODE	0HDW7
APPROVE	<i>[Signature]</i>	REV	T
SCALE: 1:1		SHEET 2 OF 2	