

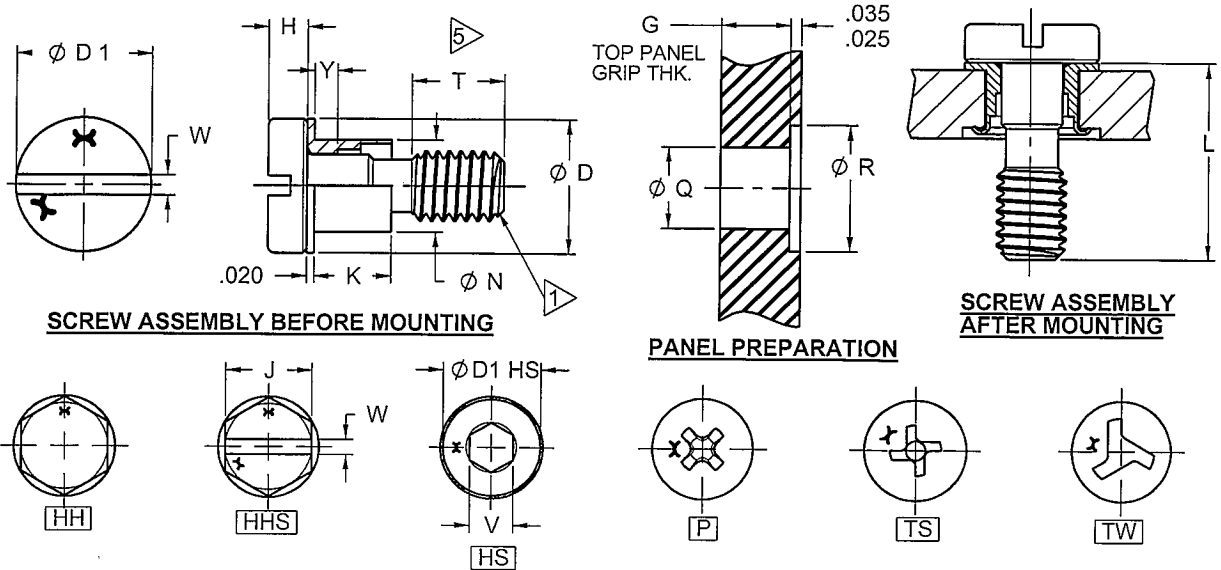
ORIGINAL
 Red ink indicates
Original Copy

REV **FF**

S-0953

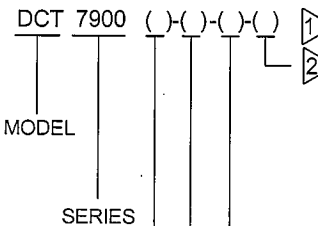
DRAWING NO.

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THREAD SIZE CODE	ØD	ØD1	ØD1HS	H				J ±.003	ØN ±.005	ØQ +.004 -.001	ØR +.020 -.000	T	W		RECESS SIZE				
				HH, HHS	HS	SLOT	P, TS, TW						SLOT	HHS	P	TW	TS	V	
4, 4F, M3	.219	.212	.180	.054	.110	.063	.075	.185	.178	.187	.281	5	.040	.035	4	2	4	3/32	
6, 6F, M3.5	.265	.263	.222	.086	.135	.077	.092	.247	.202	.209	.312		.044	.044	6	3	6	7/64	
8, 8F, M4	.314	.314	.266	.103	.161	.090	.110	.247	.215	.221	.343		.049	.049	8	4	8	9/64	
10, 10C, 10F, M5	.365	.365	.307	.112	.187	.104	.127	.309	.250	.257	.375		.055	.055	10	5	10	5/32	
12, 12C, 12F, M6	.492	.482	.370	.181	.247	.137	.168	.372	.313	.323	.437		.062	.062	1/4	6	1/4	3/16	

PART NUMBER CALLOUT



LENGTH CODE	L	LENGTH CODE	L
1	.285	3.5	.597
1.5	.348	4	.660
2	.410	4.5	.722
2.5	.472	5	.785
3	.535	5.5	.847

GRIP CODE	G (TOP PANEL GRIP THK)			GRIP CODE	G (TOP PANEL GRIP THK)		
	K	Y	K		Y		
A	.031-.062	.085	.020	D	.188-.250	.272	.062
B	.063-.125	.147	.062	E	.251-.312	.335	
C	.126-.187	.210		F	.313-.375	.397	

THREAD SIZE CODE	THREAD SIZE	LEAD	THREAD SIZE CODE	THREAD SIZE	LEAD
4	.112-40 UNC-2A	SINGLE	8F	.164-32 UNC-2A	QUAD
6	.138-32 UNC-2A		10F	.190-32 UNF-2A	
8	.164-32 UNC-2A		12F	.250-28 UNF-2A	
10	.190-32 UNF-2A		M3	M3 x 0.5-6g	METRIC
12	.250-28 UNF-2A	M3.5	M3.5 x 0.6-6g		
10C	.190-24 UNC-2A	SINGLE (COARSE)	M4	M4 x 0.7-6g	
12C	.250-20 UNC-2A		M5	M5 x 0.8-6g	
4F	.112-40 UNC-2A	DOUBLE	M6	M6 x 1.0-6g	
6F	.138-32 UNC-2A				

RECESS CODE	DRIVING RECESS AND SPECIFICATION	RECESS CODE	DRIVING RECESS AND SPECIFICATION
	SLOT RECESS PER ANSI B18.6.3	P	CROSS RECESS PER NASM 9006
HH	HEX HEAD PER ANSI B18.6.3	TS	RECESS PER NASM 33781
HHS	HEX HEAD SLOT RECESS PER ANSI B18.6.3	TW	RECESS PER NAS 4000
HS	CAP HEAD HEX RECESS PER ANSI B18.3		

FF	DCN 6456	04-30-08
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 CAPTIVE SCREW, OPTIONAL HEAD, FIXED THREAD LENGTH	
DATE 10/29/2004	PART NUMBER DCT7900
DRAWN JLS	DRAWING NO. S-0953
CHECK 	CAGE CODE 0HDW7 REV FF
APPROVE	SCALE: 2:1 SHEET 1 OF 2

REV
FF

DRAWING NO.
S-0953

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THREAD LENGTH AVAILABILITY TABLE

GRIP CODE	4, 4F, M3, 6, 6F, M3.5										8, 8F, M4, 10, 10C, 10F, M5										12, 12C, 12F, M6										
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	
A	.140										.140	.203										.190	.203	.265							
B		.140										.140	.203											.203	.265						
C			.140					.203					.140	.203				.250							.203	.265				.281	
D				.140										.140	.203											.203	.265				
E					.140										.140	.203											.203	.265			
F						.140										.140	.203											.203	.265		

ASSEMBLIES NOT AVAILABLE

MATERIAL

STUD: HH, HHS, HS, P, & SLOT RECESSES

SIZES - 4, 4F, 6, 6F, M3, M3.5

8740 ALLOY STEEL PER AMS 6322 OR EQUIV., HEAT TREAT TO HRC 34-38

SIZES - 8, 8F, 10, 10F, 10C, 12, 12F, 12C, M4, M5, M6

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

SLEEVE:

SIZES - 4, 4F, 6, 6F, M3, M3.5

BRASS ALLOY PER ASTM B 16/B 16M OR SAE AMS 4610

SIZES - 8, 8F, 10, 10F, 10C, 12, 12F, 12C, M4, M5, M6

6061 ALUMINUM ALLOY PER AMS-QQ-A-225/8, AMS 4117

FINISH

STUD & SLEEVE: SIZES - 4, 4F, 6, 6F, M3, M3.5

CAD PLATE PER AMS-QQ-P-416, TYPE I, CLASS 2

STUD: SIZES - 8, 8F, 10, 10F, 10C, 12, 12F, 12C, M4, M5, M6

PASSIVATE PER AMS-QQ-P-35

SLEEVE: SIZES - 8, 8F, 10, 10F, 10C, 12, 12F, 12C, M4, M5, M6

ANODIZE PER MIL-A-8625, TYPE II, CLASS 1

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) .335 FOR SIZE 12 AND M6.
- 3) NO CODE REQUIRED FOR SLOTTED RECESSED HEADS.
- 4) FOR LONGER LENGTHS "L", ADD .125 INCREMENTS PER LENGTH CODE.
- 5) SEE APPROPRIATE THREAD LENGTH AVAILABILITY TABLE FOR "T" DIMENSION.
- 6) -2A THREADS PER FED-STD-H28. "M" THREADS PER ANSI/ASME B1.13M

INSTALLATION TOOLS: () INDICATES THREAD SIZE CODE

ARBOR PRESS TOOL HW7600-(), NOSE PIECE HN7513-(), PULLER HP7523-(), HANDLE ASSEMBLY TA7533

COMPLETE HANDLE TOOL ASSEMBLY: H8603-() INCLUDES NOSE PIECE, PULLER & HANDLE

FF	DCN 6456	04-30-08	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 CAPTIVE SCREW, OPTIONAL HEAD, FIXED THREAD LENGTH	
REV	DESCRIPTION/EC NO.	DATE		DATE 10/29/2004	PART NUMBER DCT7900
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN INCHES			DRAWN JLS CHECK APPROVE	DRAWING NO. S-0953	
TOLERANCE UNLESS OTHERWISE NOTED: X = ±.05 ANGLES ±0.5° XX = ±.02 XXX = ±.015				CAGE CODE 0HDW7	REV FF
				SCALE: 1:1 SHEET 2 OF 2	