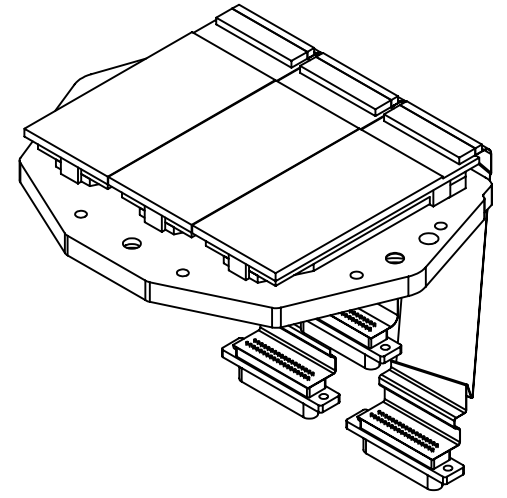
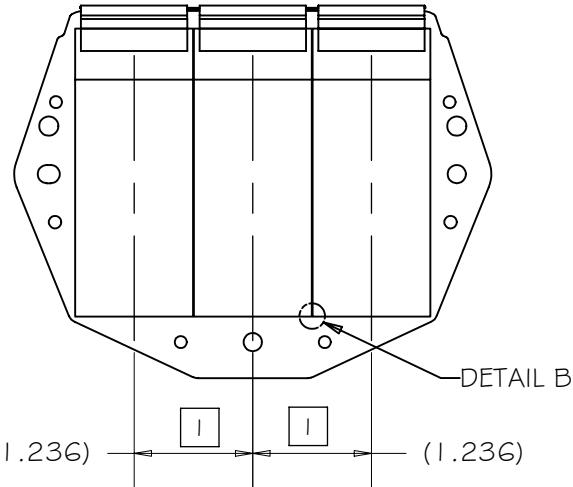
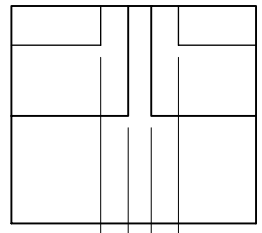


REV	DRWN	CHK'D	DATE	DESCRIPTION
A	GFC	GFC	12/2/02	INITIAL RELEASE
B	GFC	TP	1/14/03	REPLACED ITEM 4 WITH ITEM 8 (REDESIGNED BACKPLANE)
C	GFC	GFC	2/6/03	CORRECTED BOM FOR MID & RED CCD ASSY DESCRIPTIONS
D	GFC	GFC	5/13/03	ADDED DIMENSIONS & NOTE
E	GFC	SV	6/3/003	ADDED DETAIL B
F	GFC	GFC	11/6/03	ADDED SHEET 2; NOTE 2

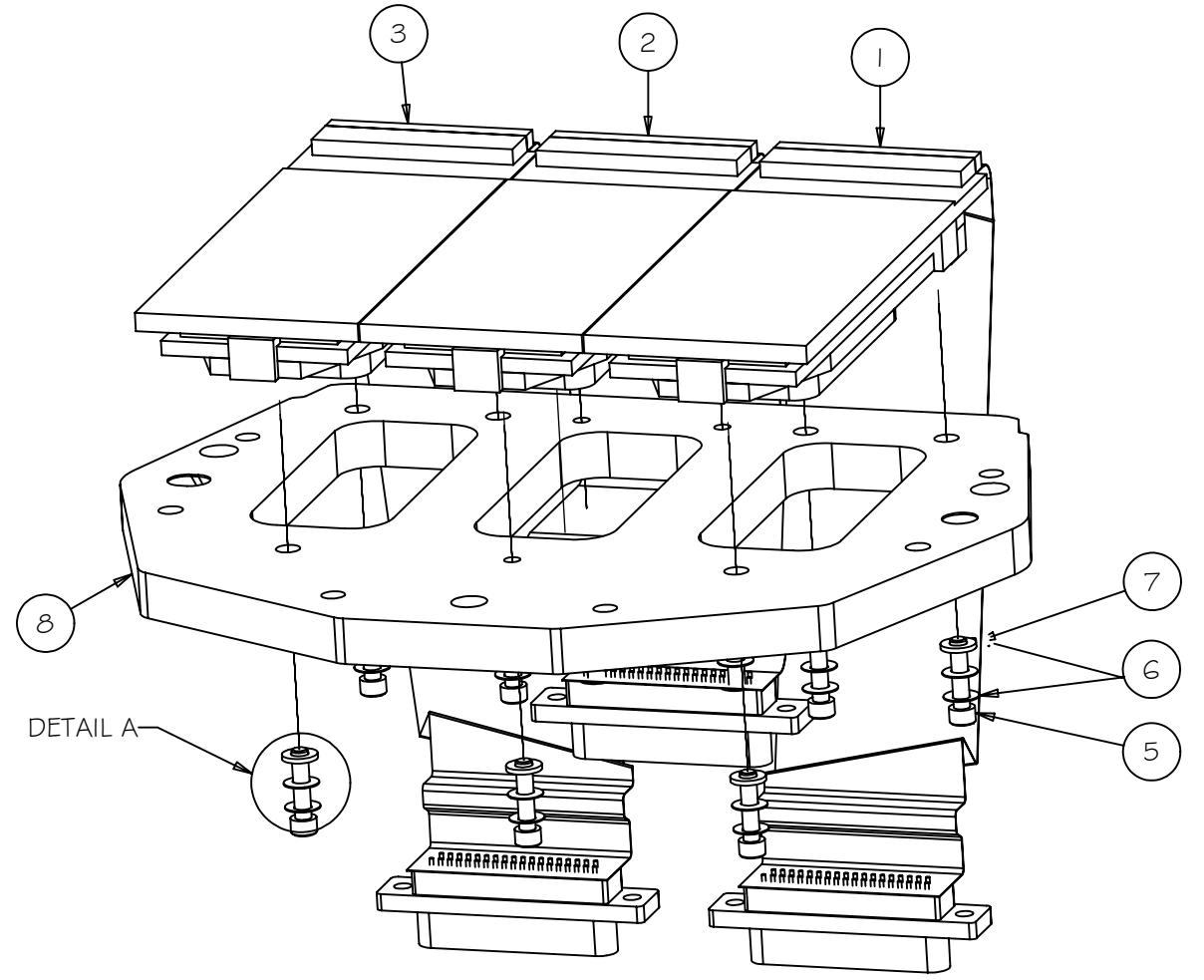


DETAIL B

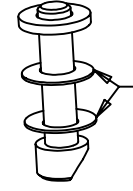


NOMINAL IMAGE AREA GAP (0.027)

NOMINAL CCD GAP (0.008)

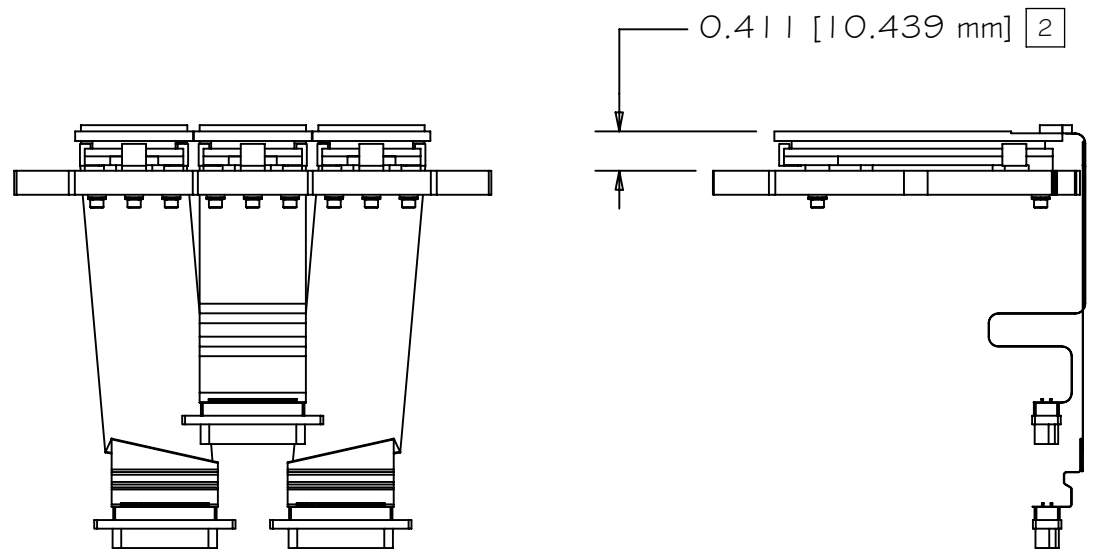


DETAIL A



ASSEMBLE WITH WASHERS IN OPPOSING DIRECTIONS

DETAIL A



0.411 [10.439 mm] 2

Parts List			
ITEM	QTY	PART NUM	DESCRIPTION
1	1	H-9440-1	BLUE CCD TOP ASSEMBLY
2	1	H-9440-2	MID CCD TOP ASSEMBLY
3	1	H-9440-3	RED CCD TOP ASSEMBLY
5	9	H/W	SCREW, SOK HD, 2-56 x .375, VENTED
6	18	H/W	WASHER, BELLEVILLE, .187 OD x .007 THK
7	9	H/W	WASHER, PLAIN, ANSI B, #2
8	1	H-9427	BACK PLANE

NOTES

- 1 NOMINAL CCD CENTERLINE SPACING
- 2 SEE SHEET 2 FOR AS-BUILT DIMENSIONS
- 3 GAP DETAIL (SHEET 2) DIMENSIONS REFER TO PHYSICAL DISTANCE BETWEEN CCD'S

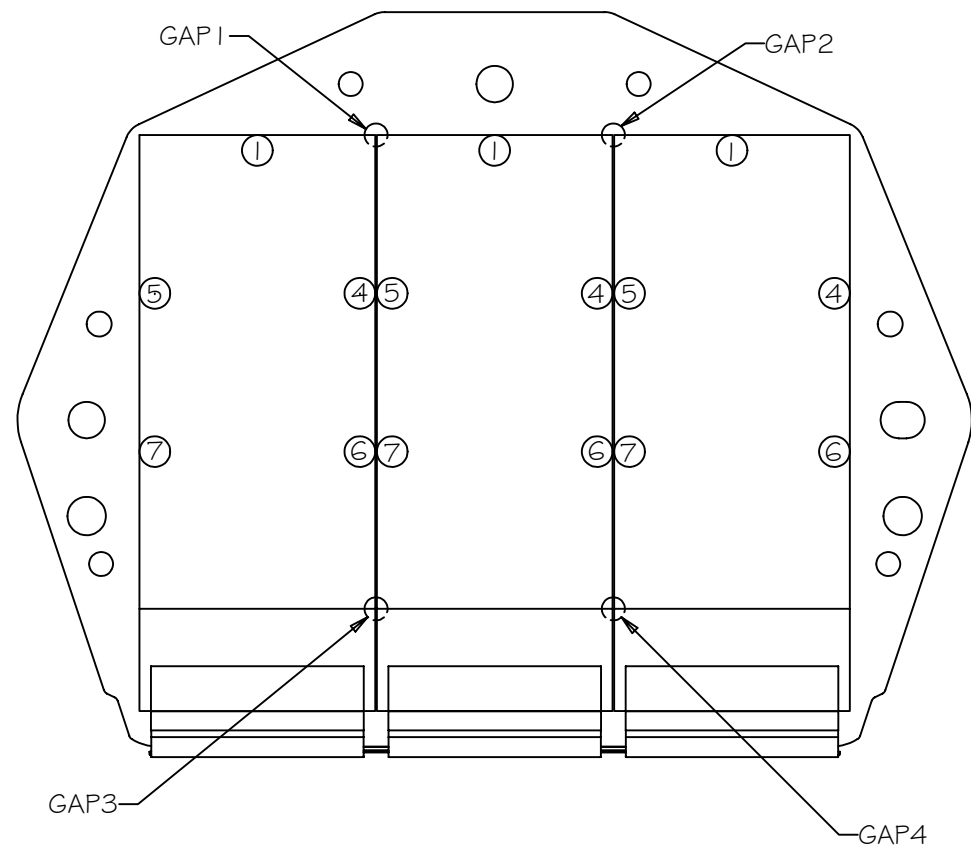
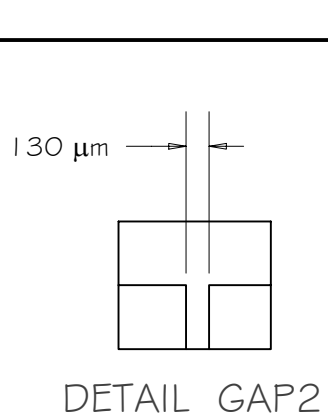
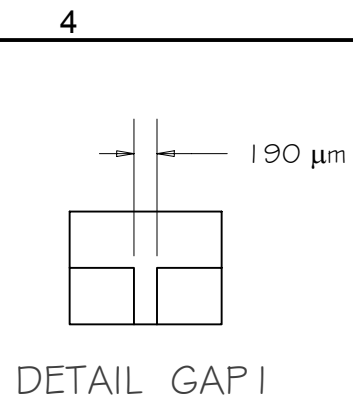
TOLERANCES UNLESS OTHERWISE NOTED:
 FRACTIONAL: 0"-6": ±1/64" 6"-24": ±1/32"
 24"+: ±1/16"
 DECIMAL: X.X: ±0.1000" X.XX: ±0.0100"
 X.XXX: ±0.0050" X.XXXX: ±0.0001"
 ANGLES: ±0.5° FINISH: 125 MICRO INCHES
 BREAK ALL SHARP EDGES & CORNERS 1/64" MAX

MATERIAL	FINISH
PARTS LIST	



DRAWN G CABAK	10/17/2002	HIRES CCD UPGRADE	
CHECKED S VOGT		CCD & BACKPLANE	
DESIGNED G CABAK		TITLE CCD MOSAIC ASSEMBLY	
ENGINEER G CABAK		PROJECT CODE HKCCDC	DWG NO H-9439
		NEXT ASSY H-9111	REV F 1/2

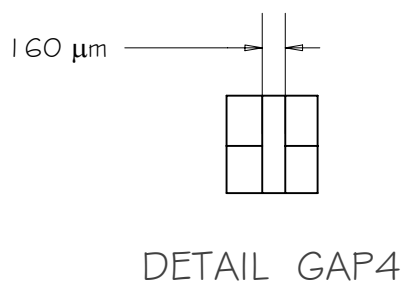
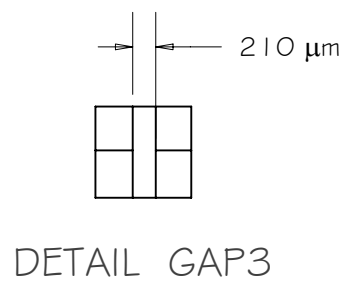
DO NOT SCALE DRAWING



MOSAIC NET HEIGHT (μm) ABOVE BACKPLANE
MEASURED AT FIVE LOCATIONS ON EACH CCD

MEASUREMENT POINTS	BLUE CCD	MID CCD	RED CCD
#1	10500.5	10500.3	10500.5
#4	10486.5	10503.5	10485.0
#5	10500.3	10484.5	10494.8
#6	10480.0	10497.0	10486.0
#7	10492.8	10483.8	10493.0
AVERAGE	10491.8	10496.3	10491.9

AVERAGE OF ALL THREE - 10492.6
ALL MEASUREMENTS & STATISTICS
CAN BE FOUND IN SPREADSHEET BP#CCDS1.XLS



HIRES CCD UPGRADE		
CCD & BACKPLANE		
TITLE CCD MOSAIC ASSEMBLY		
PROJECT CODE HKCCDC	DWG NO H-9439	REV F
NEXT ASSY H-9111		2/2