

ITEM NO.	PART NUMBER	REV	DESCRIPTION	QTY.
1	-	-	STOCK TAG	1
2	044-075-013	-	BILL BOX, US CURRENCY	1
3	044-075-019	-	PAPER ROLL	2
4	044-906-017	-	LIFT PAD	1
5	044-906-018	-	SCORED FILLER PAD	1
6	044-906-019	-	SHIPPING BOX	1
7	044-906-020	-	PLASTIC BAG	1
8	044-906-025	-	FOAM ASSEMBLY	2
9	100-070-084	A	AC3000 HARDWARE KIT	1
10	822-074-000	A	AC3100US ASSEMBLY	1
11	DOC 1353	-	AC3100 INSTALLATION MANUAL	1
12	H930416	-	UL LABEL	2
13	H930492	-	FCC LABEL	1
14	IPCONVLABEL	A	IPCONVLABEL	2
15	DOC1151	-	2" X 1.25" BLANK BLACKBOARD LABEL	2
16	044-710-027	-	DOC1151 CLEAR OVERLAY	2
17	DOC1355	A	AC3100 FCC LABEL	2

SEE SHEET 4

PROGRAMMING / FINAL TEST:

- PROGRAM THE UNIT AND PERFORM FINAL TEST PER THE TEST INSTRUCTIONS.
- RECONNECT POWER CABLE TO POWER CONNECTOR ON POWER MODULE.

HIPOT TEST:

- SETUP THE HIPOT TESTER ON THE WORK BENCH AND PLUG INTO AC POWER.
- POWER UP THE TESTER AND VERIFY SETUP (PRESS "SET" AFTER EACH ENTRY, UP/DOWN ARROWS TO CHANGE):

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MEMORY 2
MODE = DC
VOLTAGE = 1.70KV
HI-LMT = 5.00mA
LO-LMT = 0.00mA
RAMP-T = 0.0 S
TIMER = 1.0 S
ARC-SEN = 5
CONTINUITY = ON

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- PRESS THE "EXIT" BUTTON TO EXIT SETUP.
- REMOVE THE TWO (2) SCREWS SECURING POWER ENTRY BOX COVER AND REMOVE COVER.
- CLAMP LEAD FROM "H.V." TO BOTH THE BLACK AND WHITE WIRES IN THE POWER ENTRY BOX.
- CLAMP GREEN BANDED LEAD FROM "RETURN" TO THE GREEN / YELLOW WIRE IN THE POWER ENTRY BOX.
- CLAMP LEAD FROM "CONT. CHECK" TO EXPOSED BARE METAL ON POWER MODULE MOUNTING PLATE (EXPOSED STUD / NUT).
- VERIFY GREEN TEST LIGHT IS ILLUMINATED ON THE HIPOT TESTER. NOTE: IF GREEN TEST LIGHT IS NOT ILLUMINATED, REWORK IS REQUIRED AND TESTING OF THE UNIT SHOULD STOP.
- PRESS THE "TEST" BUTTON. AFTER APPROXIMATELY TWO (2) SECONDS "PASS" SHOULD BE DISPLAYED.
- CONTINUE THE TEST BY INSTALLING THE CLAMP LEAD FROM "CONT.CHECK" AND TOUCHING BARE METAL ON THE FOLLOWING COMPONENTS: PRINTER BRACKET, CARD DISPENSER, PWA/LCD MOUNTING BRACKET STUD/NUT, BILL VALIDATOR, AND LOCK T-HANDLE ON OUTSIDE OF DOOR
- AS EACH COMPONENT IS TOUCHED, VERIFY THE GREEN TEST LIGHT ON THE HIPOT TESTER ILLUMINATES.
- UNCLAMP THE "CONT. CHECK", "RETURN" AND "H.V." LEADS FROM THE UNIT.
- RE-INSTALL THE POWER ENTRY BOX COVER AND SECURE IT WITH THE TWO (2) SCREWS.
- RECORD TEST RESULTS IN UL LOG BOOK. ONLY IF ALL TESTS HAVE PASSED, IS THE UNIT IN UL COMPLIANCE AND THE UL LISTED LABEL MAY BE APPLIED.
- ONLY STEPS FOUR (4) THROUGH FOURTEEN (14) NEED TO BE REPEATED FOR SUBSEQUENT UNITS.

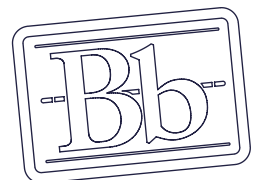
REV.	DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	04/18/2011	CNC

ASSEMBLY NOTES: (UNLESS OTHERWISE SPECIFIED)

- PERFORM HIPOT TEST PRIOR TO INSTALLING UL LABELS (ITEM 12).
- PLACE PRINTED PRODUCT ID LABEL (ITEM 14) ONTO RIGHT SIDE OF ENCLOSURE. POSITION 1" FROM BACK WALL AND 1" UP FROM BOTTOM SURFACE. PLACE SECOND PRODUCT ID LABEL ON SURFACE INSIDE DOOR APPROXIMATELY 2" ABOVE LOCK MECHANISM. SEE SHEET 4 FOR LABEL INFORMATION.
- PLACE UL LABEL (ITEM 12) APPROXIMATELY 1/4" FROM THE LEFT OF THE PRODUCT ID LABEL. PLACE SECOND UL LABEL ON SURFACE INSIDE DOOR ABOVE PRODUCT ID LABEL.
- PLACE ONE AC3100 FCC LABEL (ITEM 17) 1/4" FROM THE LEFT OF THE UL LABEL ON THE SIDE OF THE AC3100. PLACE THE SECOND ONE ON THE PWA / LCD COVER 1/4" ABOVE THE FCC LABEL (ITEM 13).
- PLACE THE FCC LABEL (ITEM 13) NEAR THE TOP AND CENTER OF THE PWA / LCD COVER.

PACKAGING INSTRUCTIONS:

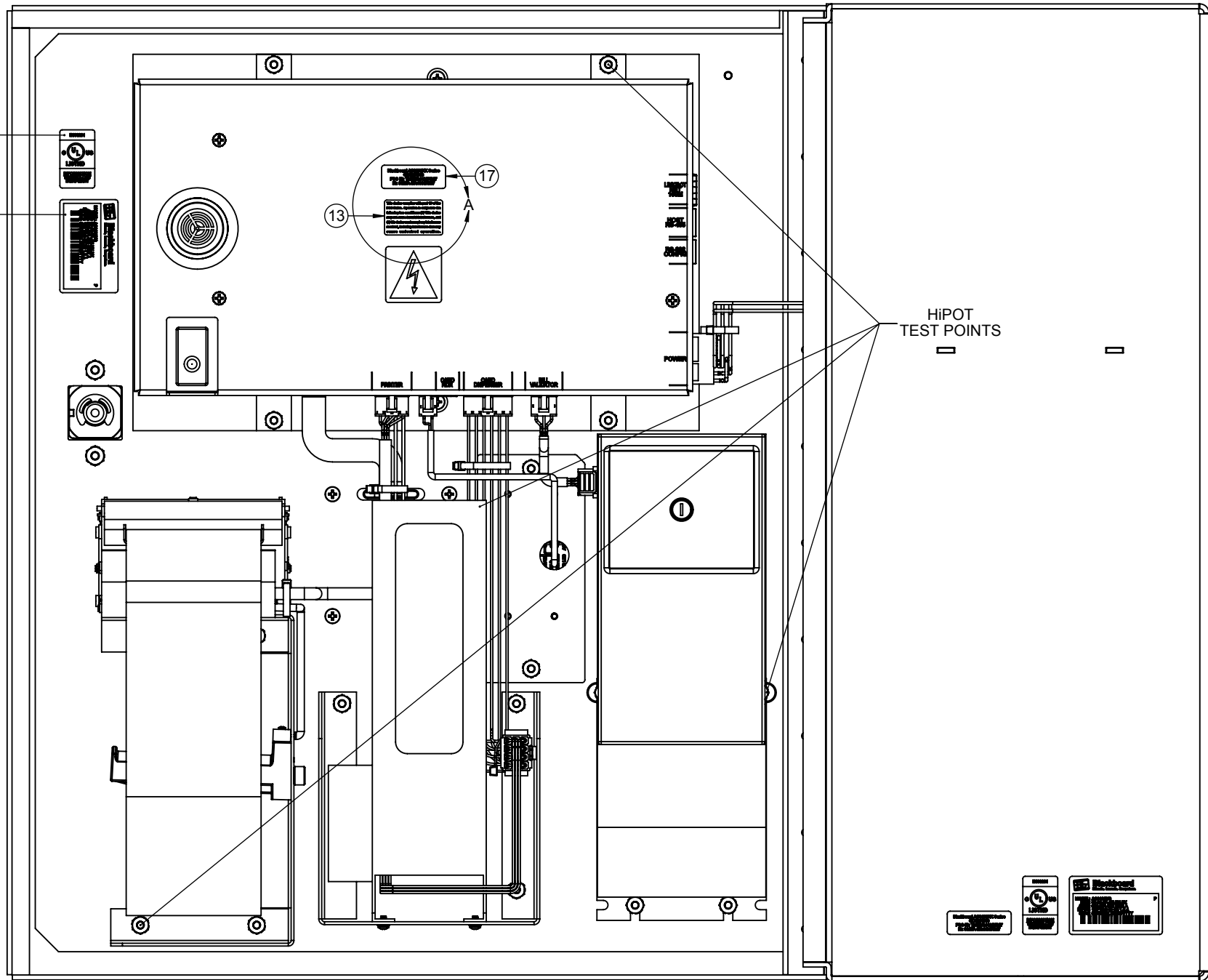
- ASSEMBLE SHIPPING BOX (ITEM 6) AS SHOWN AND INSTALL KRAFT TAPE ON BOTTOM SEAM.
- GENERATE DIAGNOSTIC RECEIPT FROM AC3100 AND PRINT CORRESPONDING SERIAL NUMBER FROM KEY TAG OF DOOR LOCK ON RECEIPT. PRINT THE MANUFACTURING JOB NUMBER ON THE DIAGNOSTIC RECEIPT. PLACE ONE (1) KEY FROM THE KEY SET FROM DOOR LOCK AND DIAGNOSTIC RECEIPT INTO PLASTIC BAG IN SUCH A MANNER THAT THE DATA IS VISIBLE WITHOUT OPENING THE BAG AND SEAL WITH HEAT SEALER. SHIP THE BAGGED KEYS TO BLACKBOARD VENDOR MANAGER.
- USING A PIECE OF SCOTCH STRAPPING TAPE #8896, TAPE THE PRINT HEAD OF THE PRINTER IN PLACE. THE TAPE SHOULD REACH HALFWAY DOWN ON EACH SIDE OF THE PRINTER HOUSING AND A TAB OF TAPE SHOULD BE CREATED BY FOLDING AN INCH OF TAPE OVER ITSELF. PRESS TAPE IN PLACE AS THE GLUE IS PRESSURE SENSITIVE.
- PLACE SERIAL NUMBER TAG AND FIVE (5) KEYS SUPPLIED WITH KEY SET FOR DOOR LOCK ALONG WITH BOTH PAIRS OF KEYS SUPPLIED WITH BILL BOX INTO PLASTIC POUCH AND SEAL.
- REMOVE WEIGHT FROM TRAY OF CARD DISPENSER IN THE AC3100 AND COVER WITH BUBBLE WRAP AND PLACE IN PLASTIC POUCH AND SEAL.
- FOLD SCORED FILLER PAD (ITEM 5) AS SHOWN AND APPLY ADHESIVE TAPE TO LOCATIONS TO PREVENT UNFOLDING. PLACE AT END OF SHIPPING BOX AS SHOWN.
- PLACE AC3100 INTO PLASTIC BAG (ITEM 7).
- PLACE AC3100 ON TOP OF LIFT PAD (ITEM 4) AND PLACE FOAM ASSEMBLY (ITEM 8) AT EACH END.
- LIFT ASSEMBLY BY HANDLES OF LIFT PAD AND INSTALL IN SHIPPING BOX AS SHOWN.
- PLACE THE FOLLOWING ITEMS INTO THE FILLER PAD COMPARTMENT: SPARE BILL BOX (ITEM 2), TWO (2) ROLLS OF PAPER (ITEM 3), HARDWARE KIT (ITEM 9), SEALED PLASTIC BAG CONTAINING DOOR LOCK KEYS AND BILL BOX KEYS (PACKAGING INSTRUCTIONS, NOTE 4), SEALED PLASTIC BAG CONTAINING INSTALLATION MANUAL (ITEM 11), AND MANUFACTURER'S DECALS SUPPLIED WITH BILL VALIDATOR CARD DISPENSER WEIGHT (PACKAGING INSTRUCTIONS, NOTE 5)
- SEAL THE BOX WITH KRAFT TAPE AND APPLY THE STOCK TAG TO THE UPPER LEFT HAND CORNER OF THE BOX.



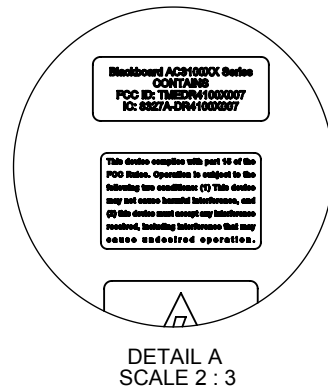
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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES DEBURR AND BREAK ALL SHARPS	DRAWN	CNC	04/18/2011
TOLERANCES: DECIMALS: X = ± .1 XX = ± .01 XXX = ± .005	CHECKED		
FRACTIONS: ANGULAR: ± 1/64 ± .5°	ENG APPR.		
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5	MFG APPR.		
MATERIAL: SEE BOM	Q.A.		
FINISH: N/A	COMMENTS:		
DO NOT SCALE DRAWING			

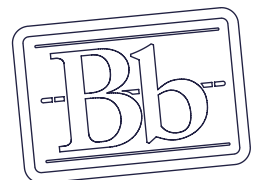
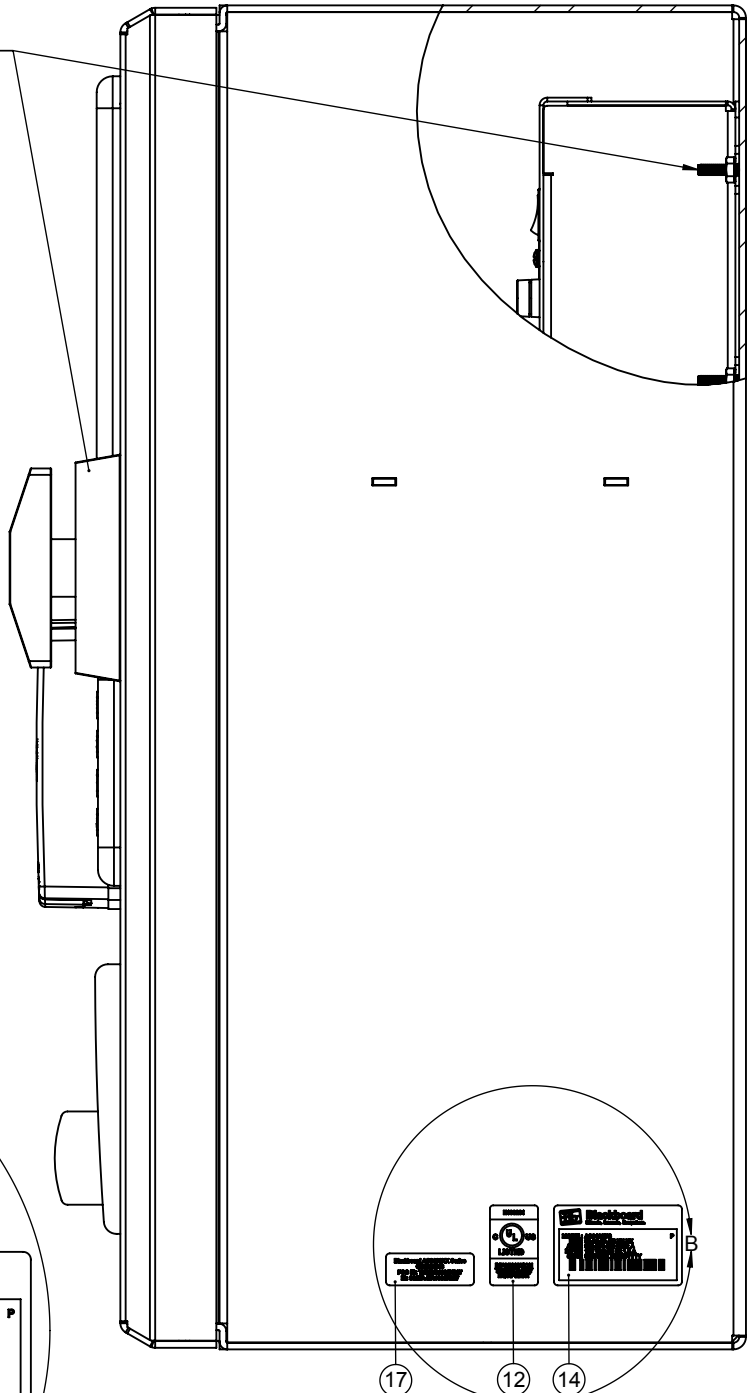
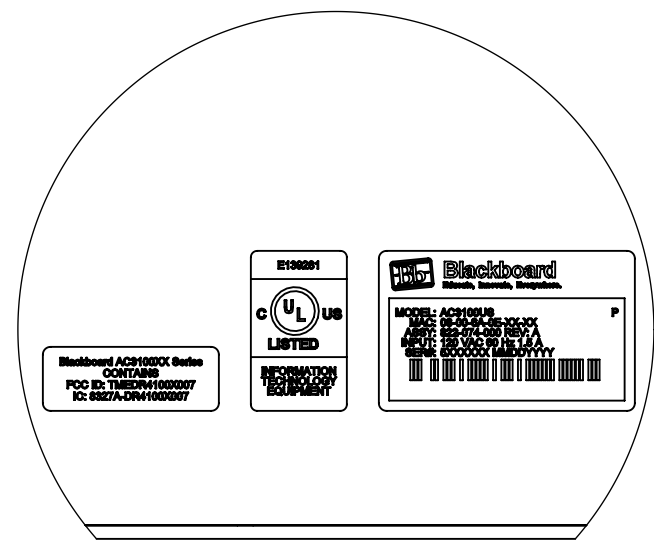
Blackboard Inc. Phoenix, Arizona			
TITLE: AC3100 US COMPLETE			
SIZE: B	DWG. NO. AC3100US	REV: A	
SCALE: 1:1		SHEET 1 OF 4	



HIPOT TEST POINTS



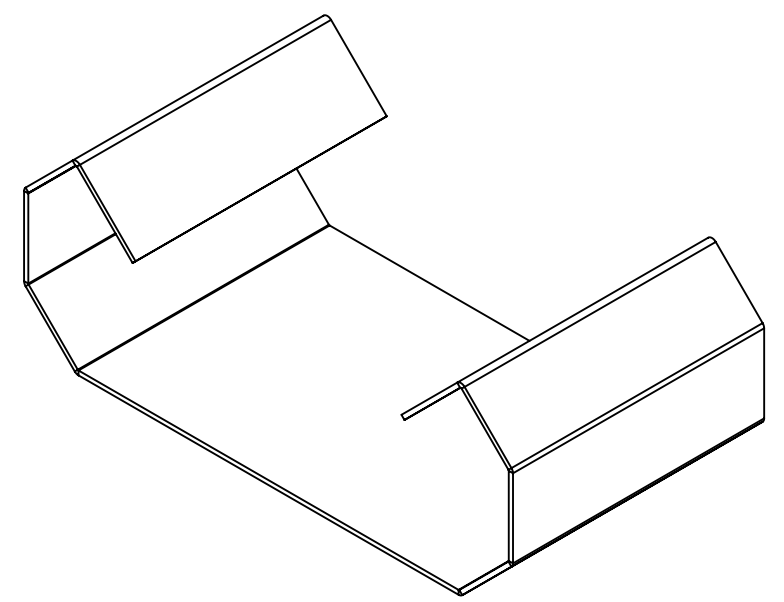
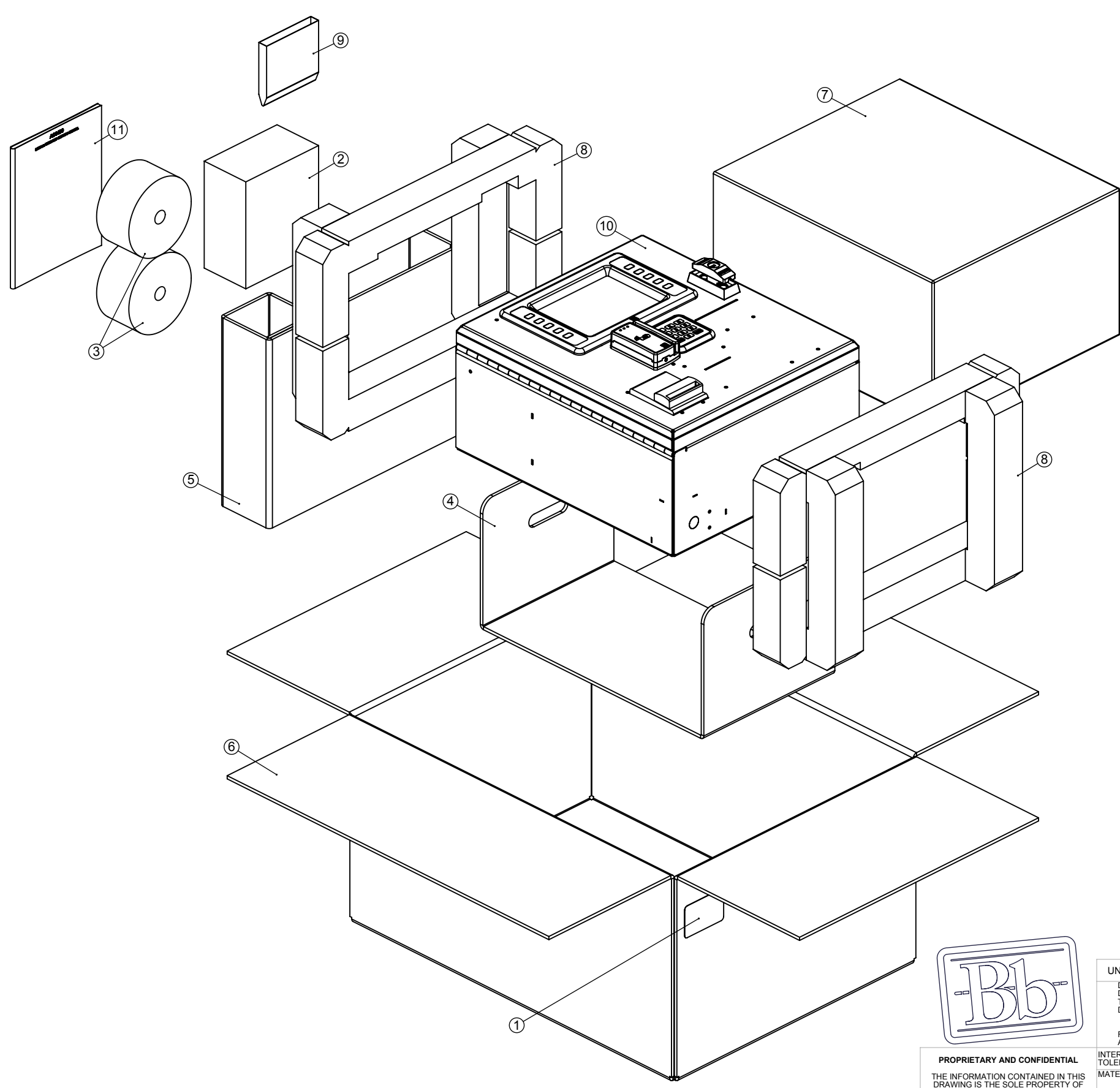
HIPOT TEST POINTS



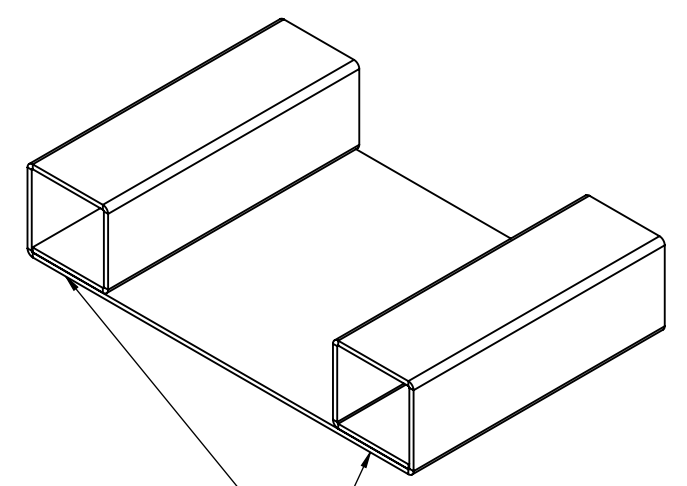
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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES DEBURR AND BREAK ALL SHARPS		DRAWN	CNC 04/18/2011
TOLERANCES:		CHECKED	
DECIMALS:		ENG APPR.	
FRACTIONS:		MFG APPR.	
ANGULAR:		Q.A.	
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5		COMMENTS:	
MATERIAL: SEE BOM			
FINISH: N/A			
DO NOT SCALE DRAWING			

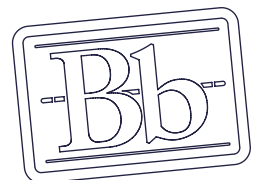
Blackboard Inc. Phoenix, Arizona		
TITLE: AC3100 US COMPLETE		
SIZE B	DWG. NO. AC3100US	REV A
SCALE: 1:3		SHEET 2 OF 4



SCORED FILLER PAD
044-906-018



TAPE CLOSED



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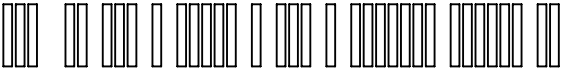
UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Blackboard Inc.	
DIMENSIONS ARE IN INCHES DEBURR AND BREAK ALL SHARPS		DRAWN	CNC	Phoenix, Arizona	
TOLERANCES:		CHECKED		TITLE:	
DECIMALS: X = ± .1 .XX = ± .01 .XXX = ± .005		ENG APPR.		AC3100 US COMPLETE	
FRACTIONS: ± 1/64		MFG APPR.		SIZE	DWG. NO.
ANGULAR: ± .5°		COMMENTS:		B	AC3100US
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5				SCALE: 1:8	REV
MATERIAL: SEE BOM					A
FINISH: N/A				SHEET 3 OF 4	
DO NOT SCALE DRAWING					



Blackboard

Educate, Innovate, Everywhere.

MODEL: AC3100US
MAC: 08-00-6A-0E-XX-XX
ASSY: 822-074-000 REV: A
INPUT: 120 VAC 60 Hz 1.5 A
SER#: 5XXXXXX MMDDYYYY



P

1. LABEL MATERIAL: DOC1151

2. LABEL INFORMATION:

MODEL: AC3100US

MANUFACTURE CODE: P
DITRON = D, PRIDE INDUSTRIES = P

MAC ADDRESS: 08-00-6A-0E-XX-XX
SEE SERIAL NUMBER ON HOW TO CREATE THE MAC ADDRESS.

ASSEMBLY NUMBER: 822-074-000

REVISION: A
CURRENT REVISION OF THE ASSEMBLY IN LETTER FORMAT.

INPUT: 120 VAC 60 Hz 1.5 A

SERIAL NUMBER: 5XXXXXX
THE 7 DIGIT SERIAL NUMBER IS CREATED FROM THE BELOW RANGE IN SEQUENTIAL ORDER.
STARTING SERIAL NUMBER: 5000000
ENDING SERIAL NUMBER: 5065391

TO GENERATE THE MAC ADDRESS FOLLOW THE BELOW INSTRUCTIONS.

STATIC MAC PREFIX: 08-00-6A-0E
STARTING MAC ADDRESS: 08-00-6A-0E-00-00
ENDING MAC ADDRESS: 08-00-6A-0E-FF-FF

SERIAL NUMBER TO MAC CONVERSION:
EXAMPLE SERIAL NUMBER, SN: 5065297

ENSURE THE SERIAL NUMBER IS 7 DIGITS LONG AND BEGINS WITH 5. SUBTRACT 5,000,000 FROM THE SERIAL NUMBER. IN THIS EXAMPLE THE RESULT WILL BE 65297. CONVERT THE RESULT INTO HEX: 65297 EQUALS HEX: FF11. APPLY THE STATIC MAC PREFIX, 08-00-6A-0E, AND THE RESULTING MAC ADDRESS IS MAC: 08-00-6A-0E-FF-11.

DATE CODE: MMDDYYYY
THE DATE CODE IS THE DATE OF MANUFACTURE IN MMDDYYYY FORMAT, WHERE MM IS THE 2 DIGIT MONTH, DD IS THE 2 DIGIT DAY AND YYYY IS THE 4 DIGIT YEAR.

BARCODE: SYMBOLOGY TYPE, CODE 3 OF 9.
INFORMATION CONTAINED IN THE BARCODE IS THE SERIAL NUMBER.

ADDITIONAL INFORMATION: N/A

3. AFTER PRINTING THE ABOVE INFORMATION APPLY A CLEAR OVERLAY (044-710-027) TO THE LABEL.

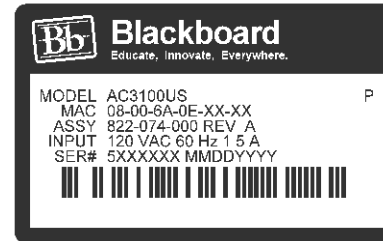
MODEL: AC3100US
 MAC: 08-00-6A-0E-XX-XX
 ASSEM: 822-074-000
 INPUT: 120 VAC 60 Hz 1.5 A
 SERIAL NUMBER: 5XXXXXX
 BAR CODE: SEE NOTES.

MANUFACTURE CODE: P

REVISION: A

DATE CODE: MMDDYYYY

ADDITIONAL INFORMATION: N/A.



FINISHED LABEL EXAMPLE
SCALE: 1:1



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DIMENSIONS ARE IN INCHES DEBURR AND BREAK ALL SHARPS TOLERANCES: DECIMALS: .X = ± .1 .XX = ± .01 .XXX = ± .005 FRACTIONS: ± 1/64 ANGULAR: ± .5°	DRAWN	CNC	04/18/2011	TITLE: <h2>AC3100 US COMPLETE</h2>	
	CHECKED				
	ENG APPR.				
INTERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5	MFG APPR.			SIZE	DWG. NO.
MATERIAL	Q.A.			A	AC3100US
FINISH	COMMENTS:				
DO NOT SCALE DRAWING				SCALE: 2:1	SHEET 4 OF 4

REV
A