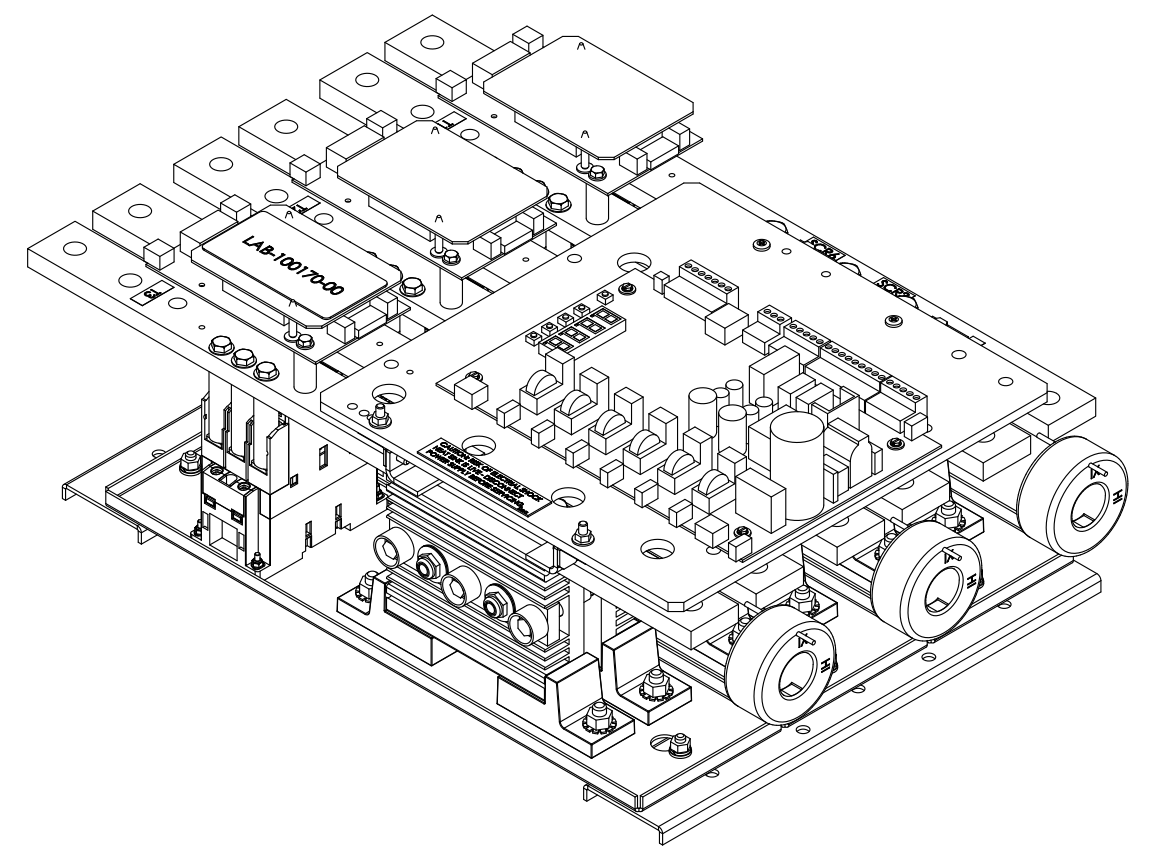
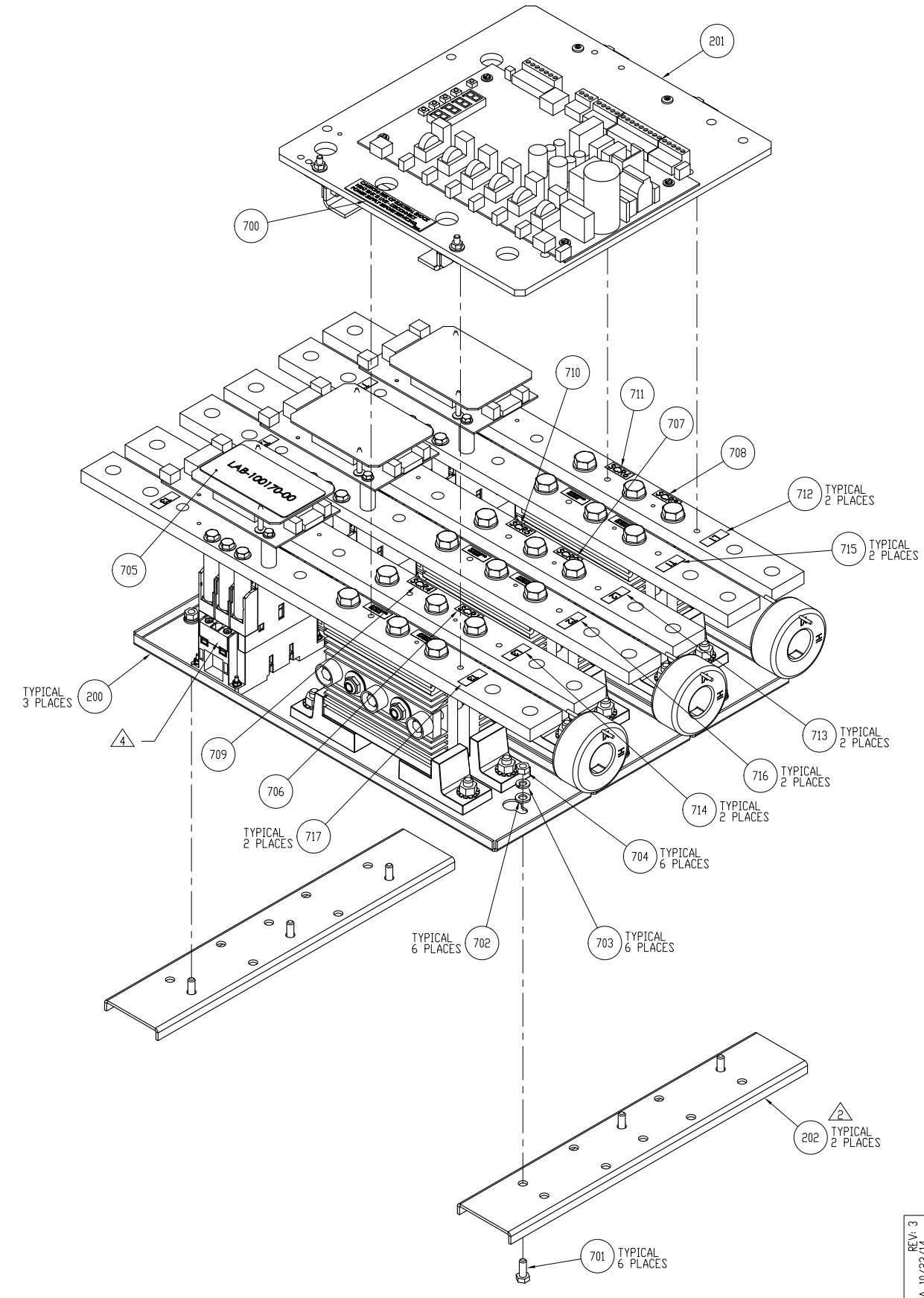


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FULL ASSEMBLY

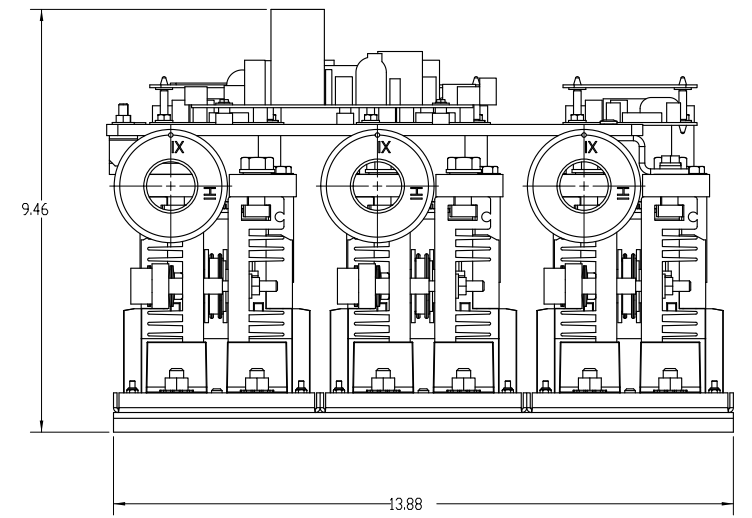
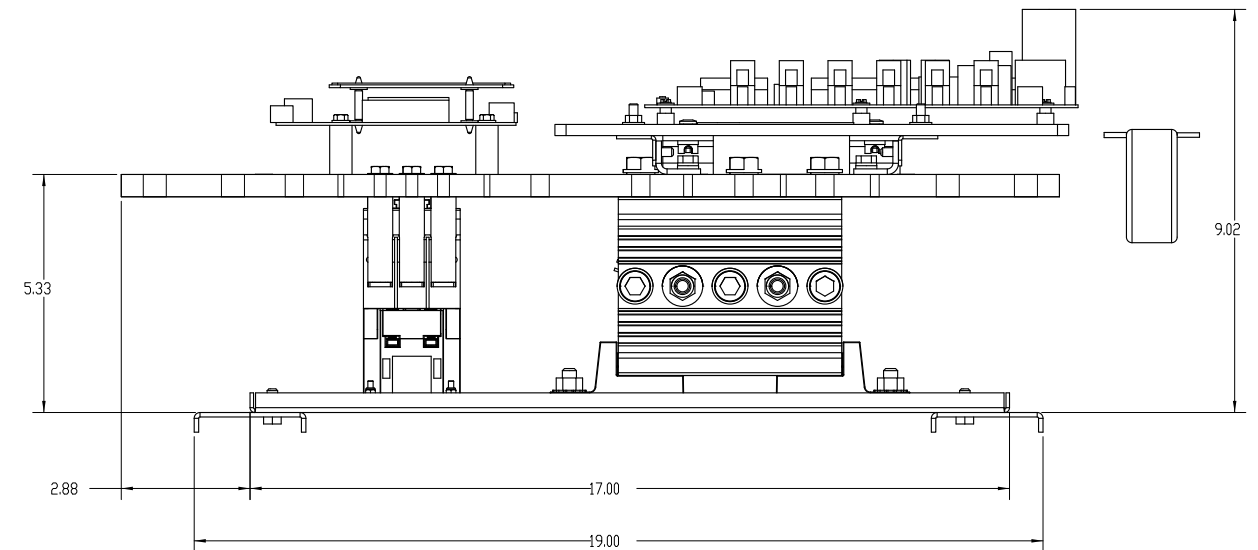
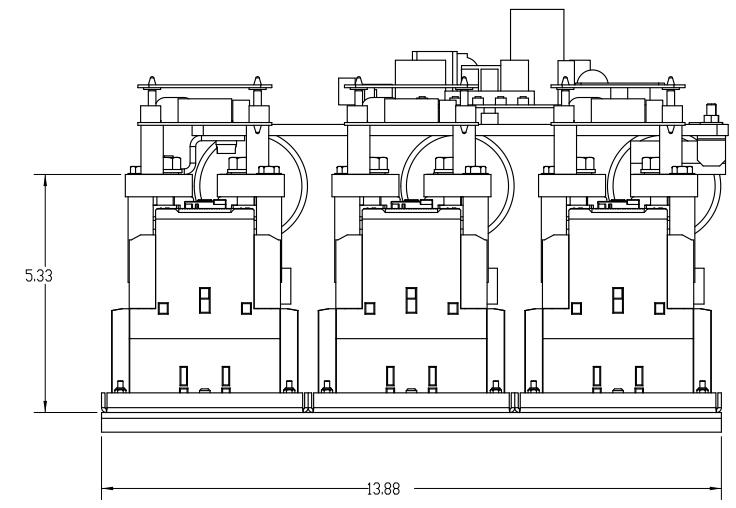
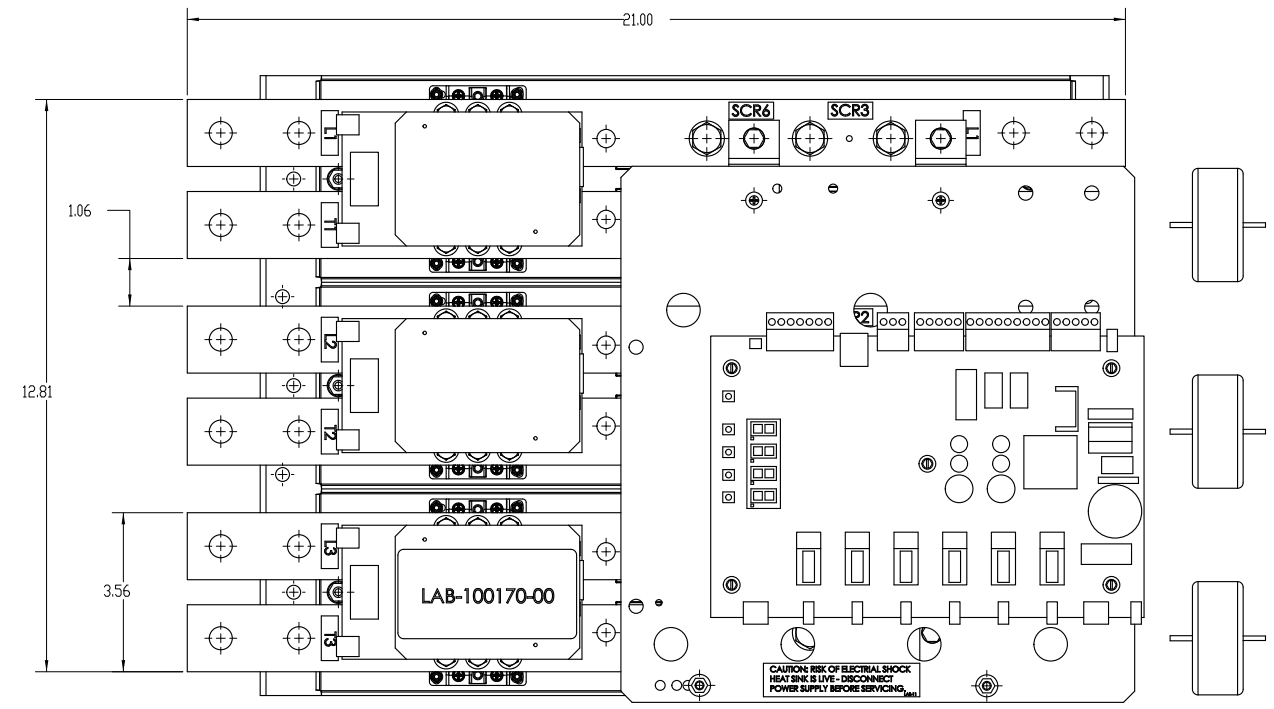
NOTES:

1. TIGHTEN ALL M6-100 BOLT TO 6.77 Nm OR (5 FT LBS).
 2. ITEM 202 WILL BE REMOVED FROM THEN CHASSIS WHEN THE STARTER IS MOUNTED DIRECTLY TO A SUBPANEL OF A ENCLOSURE. HARDWARE WILL BE DISCARDED.
 3. ITEMS 203 THRU 208 ARE NOT SHOWN.
 4. WHEN BUILDING 156 AMP POWER CHASSIS USE RC-50 CONTACTORS OR WHEN BUILDING 180AMP POWER CHASSIS USE RC-65 CONTACTORS
- RB2-1-S-156-14C CH-440136-00
 156A OD/242A ID NOMINAL
 179A OD/278A ID @115%
- RB2-1-S-180A14C CH-440137-00
 180A OD/279A ID NOMINAL
 207A OD/321A ID @115%

REV: 3 APP'D: BJA 10/23/14 CHG'D: BJA 10/23/14 DESCRIPTION: REMOVE NEG QTY ITEMS FROM BOM	REV: 3 APP'D: MSN 7/13/2012 CHG'D: JBP 7/13/2012 DESCRIPTION: BUSS UNPLATED TO ALLOW THT BRACING PWS UPDATE IN ASSY.	REV: 2 APP'D: MSN 5/3/2012 CHG'D: JBP 5/3/2012 DESCRIPTION: RC CONTACTOR IN PLACE OF RSC PWS UPDATED ON ASSY.	THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED ALL DIMENSION IN INCHES INTERPRET DRAWING PER ASME Y14.5M-1994	SIGNATURES DRWN. RBM CHKD. ENG. MSN MFG.	DATE 10/16/06 11/16/06	TITLE: RB2 CHASSIS 156/180 AMP STANDARD FAULT 18KA MAX 600V MAX	65 ALPIN DRIVE PETERBORO, PA 15201 PHONE 482-948-0000 FAX 482-948-0000 500 BROAD ST. E. LITTLETON, COLORADO 80120	REV 4
			THIS DRAWING AND ALL INFORMATION CONTAINS HEREIN, IS THE PROPERTY OF BENSHAW INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE EXPRESS WRITTEN CONSENT OF BENSHAW INC. CONVENIENCE OF THE USER AND SHALL BE RETURNED UPON REQUEST.	TOLERANCES: X ± 1/8 ANGLES ± 1° XX ± .03 XXX ± .015	MATERIAL: FINISH:	SCALE: 1/2:1			
			DO NOT SCALE DIMG	FINISH:	SHEET: 1 OF 2				
			CH-440137-00						

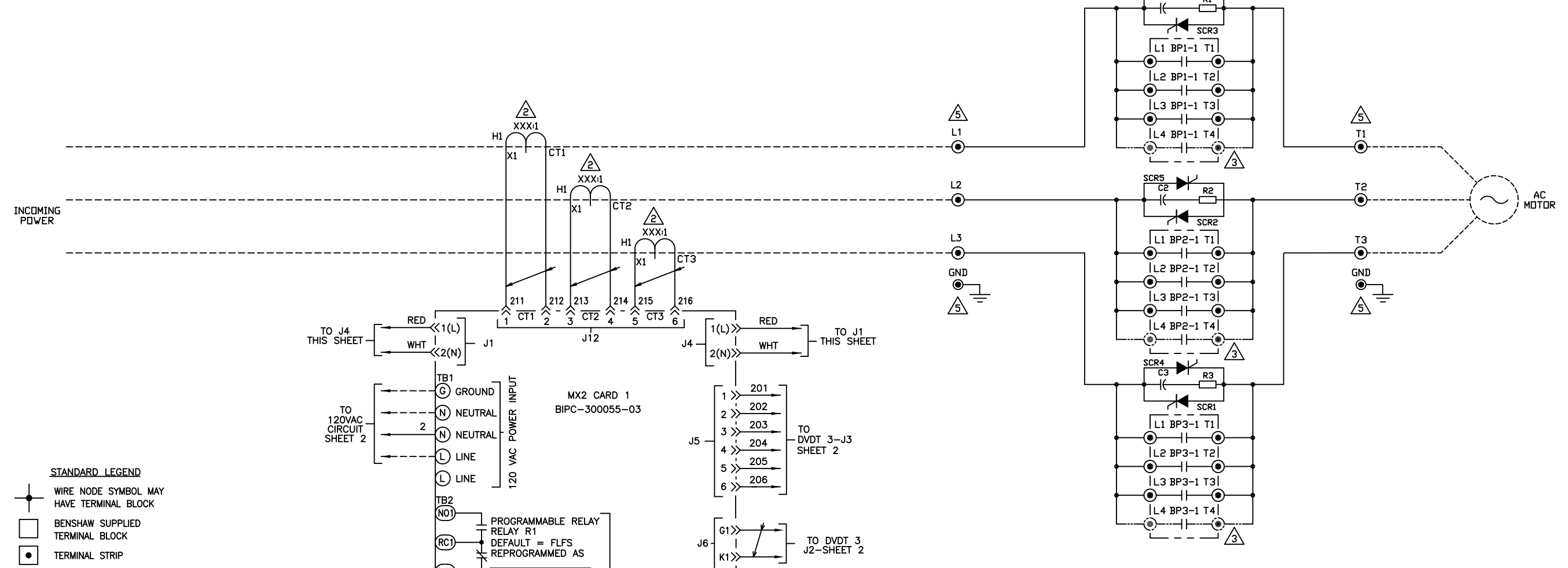
CH-440137-00

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DO NOT SCALE DWG	THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED ALL DIMENSION IN INCHES INTERPRET DRAWING PER ASME Y14.5M-1994 TOLERANCES: X ± 1/8 ANGLES ± 1° XX ± .03 XXX ± .015 MATERIAL: FINISH	SIGNATURES	DATE	TITLE: RB2 CHASSIS 156/180 AMP STANDARD FAULT 18KA MAX 600V MAX	BENSHAW <small>605 ALPINE DRIVE PETERBORO, PA 15275 PHONE 412-242-0200 FAX 412-242-0201 WWW.BENSHAW.COM</small>	
	THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF BENSHAW INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE EXPRESS WRITTEN CONSENT OF BENSHAW INC. CONVENIENCE OF THE USER AND SHALL BE RETURNED UPON REQUEST.		DRWN. RBM	10/16/06			
			CHKD.				
			ENG. MSN	11/16/06			
		MFG.			SIZE: D DWG NO: CH-440137-00 SCALE: 1/2"=1"	REV: 4 SHEET: 2 OF 2	

10-661004-HJS
ON DIM



- STANDARD LEGEND**
- WIRE NODE SYMBOL MAY HAVE TERMINAL BLOCK
 - BENSRAW SUPPLIED TERMINAL BLOCK
 - TERMINAL STRIP
 - POWER CONNECTION
 - PC BOARD TERMINALS
 - TWISTED PAIR
 - TWISTED SHIELDED PAIR
 - SHIELDED WIRE
 - FIELD WIRING

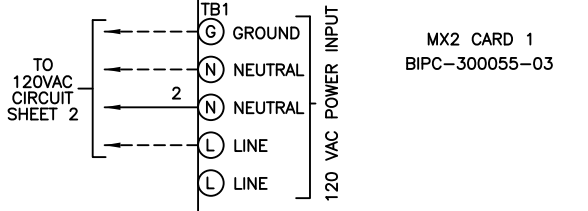
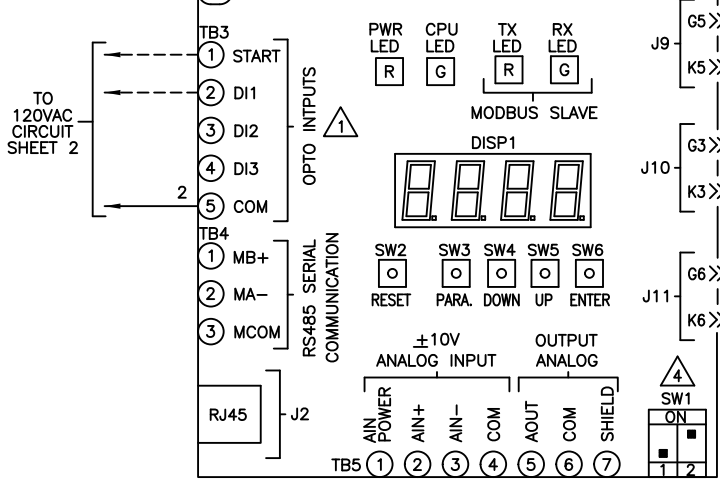


CHART 1

TIGHTENING TORQUE SPECIFICATIONS FOR SOCKET HEAD SCREWS

SOCKET SIZE ACROSS FLATS (INCHES)	TORQUE POUNDS-INCHES
1/4	200
5/16	275
3/8	375
1/2	500

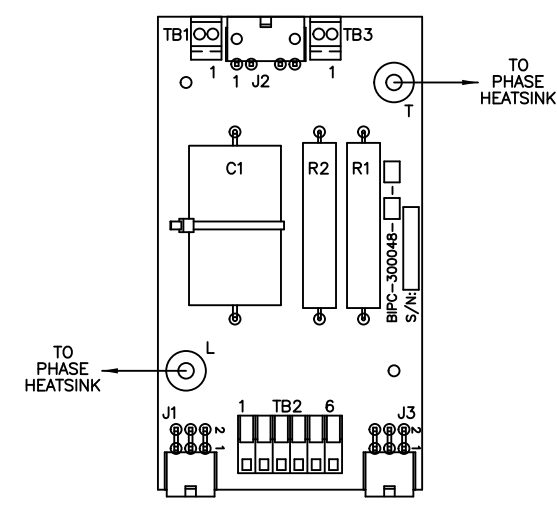
- NOTES:**
- ① SELECT EITHER THREE OR TWO WIRE CONTROL.
 - ② FOR 97-156A UNITS, PROGRAM (P78), FUN (03), CT RATIO = 864:1
FOR 157-361A UNITS, PROGRAM (P78), FUN (03), CT RATIO = 2640:1
 - ③ L4/T4 CONTACTOR POLE IS ONLY ON 361A UNITS
 - ④ SW1-1: (ANALOG INPUT) UP = CURRENT, DOWN = VOLTAGE
SW1-2: (ANALOG OUTPUT) UP = VOLTAGE, DOWN = CURRENT
 - ⑤ TIGHTEN POWER AND GROUND LUG FIELD WIRING CONNECTIONS TO CHART 1 SPECIFICATIONS. IF BREAKER IS SUPPLIED ON LINE SIDE OF STACK USE TORQUE VALUES ON BREAKER.



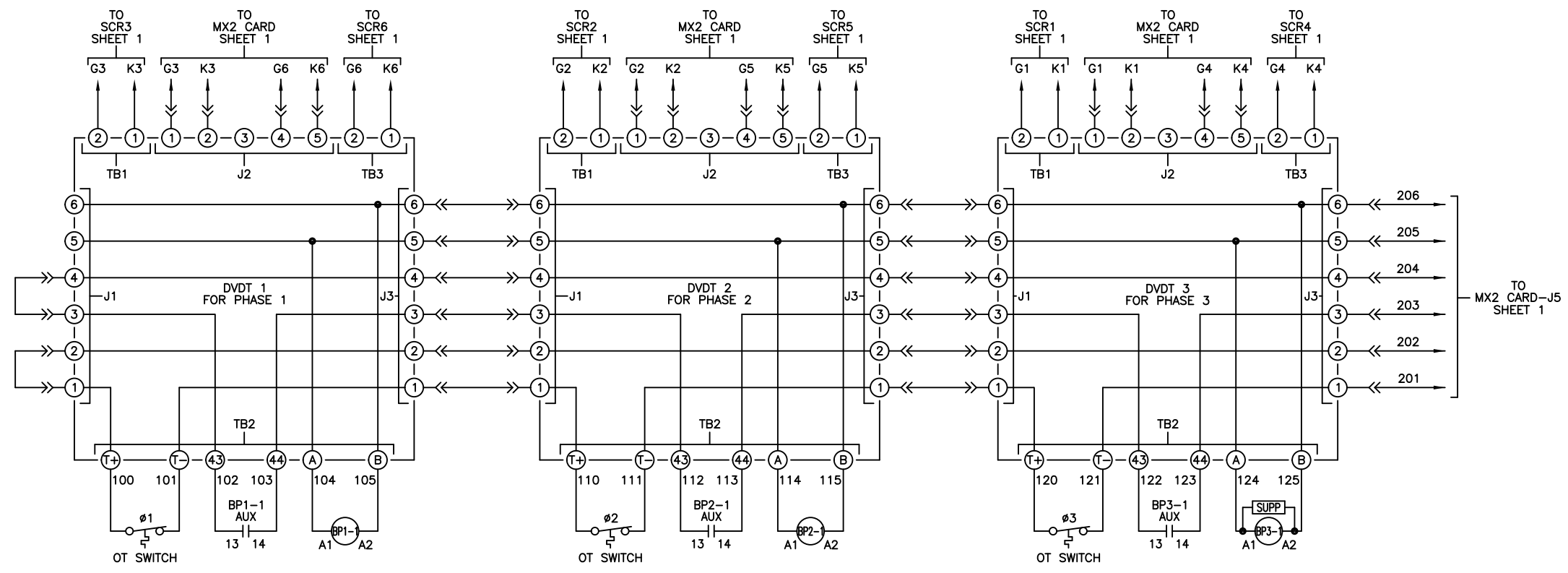
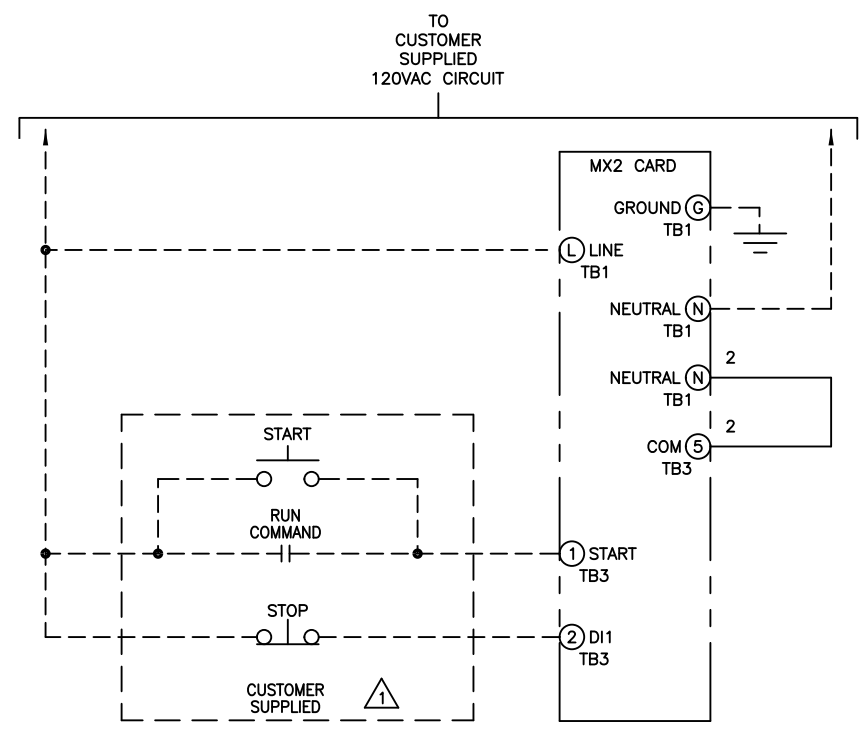
1 E3488 2/28/12 APPR'D: JAF 2/28/12 CHG BY: CAH 2/28/12 CHANGE REMOVED TWO SURGE SUPPRESSORS.	REVISIONS DO NOT SCALE DWG	THIRD ANGLE PROJECTION THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN, IS THE PROPERTY OF BENSRAW INC., AND MAY NOT BE REPRODUCED, OR DIVULGED TO UNAUTHORIZED PERSONS WITHOUT THE EXPRESS WRITTEN CONSENT OF BENSRAW INC. IT IS PROVIDED SOLELY FOR THE CONVENIENCE OF THE USER AND SHALL BE RETURNED UPON REQUEST.	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN INCHES INTERPRET DRAWING PER ASME Y14.5M-1994 TOLERANCES: .XX ± .03 .XXX ± .015 ANGLES ± 1°	TITLE: MASTER POWER SCHEMATIC RB2, W/MX2 CONTROL FOR: 97-361A CHASSIS	SIGNATURES: JMD 1/2/2008 DATE: 1/2/2008
					ENG: MSN 1/2/2008 DATE: 1/2/2008
					MFG: MSN 1/2/2008 DATE: 1/2/2008
					SIZE: D DWG NO.: SCH-700139-01 REV: 1
SCALE: 1:1 SHEET 1 OF 2					



10-661004-HJS



- STANDARD LEGEND**
- WIRE NODE SYMBOL MAY HAVE TERMINAL BLOCK
 - BENSRAW SUPPLIED TERMINAL BLOCK
 - TERMINAL STRIP
 - POWER CONNECTION
 - PC BOARD TERMINALS
 - TWISTED PAIR
 - TWISTED SHIELDED PAIR
 - SHIELDED WIRE
 - FIELD WIRING



REVISIONS DO NOT SCALE DWG	THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN INCHES INTERPRET DRAWING PER ASME Y14.5M-1994 TOLERANCES: .XX ± .03 .XXX ± .015 ANGLES ± 1° MATERIAL: FINISH:	TITLE: MASTER CONTROL SCHEMATIC RB2, W/MX2 CONTROL FOR: 97-361A CHASSIS	SIGNATURES: JMD DATE: 1/2/2008	815 ALPHA DRIVE PITTSBURGH, PA 15238 550 BRIGHT STREET LISTONEL, ONTARIO M4W 3W3		
	THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN, IS THE PROPERTY OF BENSRAW INC., AND MAY NOT BE REPRODUCED, OR DIVULGED TO UNAUTHORIZED PERSONS WITHOUT THE EXPRESS WRITTEN CONSENT OF BENSRAW INC. IT IS PROVIDED SOLELY FOR THE CONVENIENCE OF THE USER AND SHALL BE RETURNED UPON REQUEST.			ENG: MSN DATE: 1/2/2008		DWG NO. SCH-700139-01	REV 1
	SCALE: 1:1			SHEET 2 OF 2			