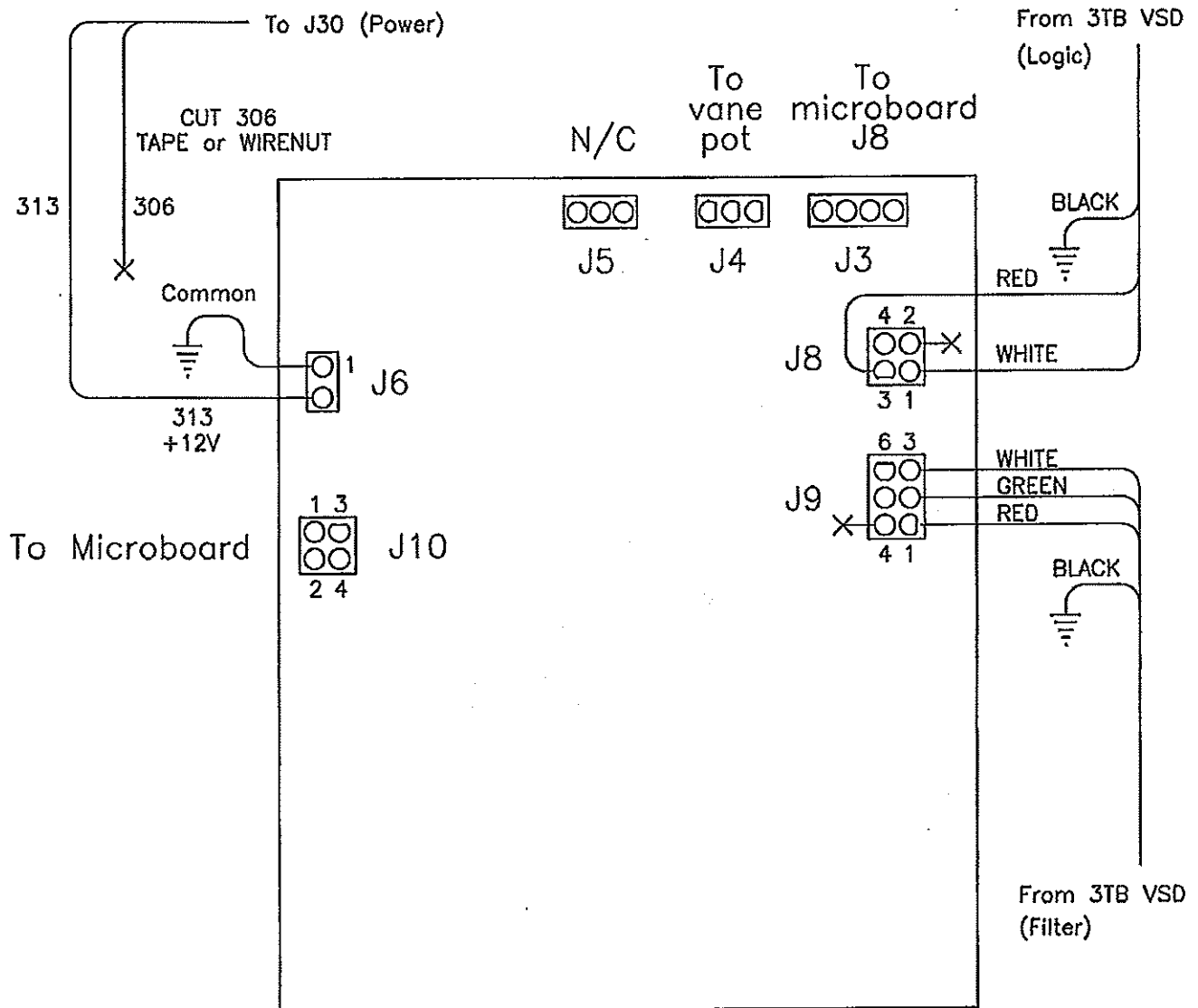


TEMPERATURE SENSORS

VYPER		
	351	503
SCR HEAT SINK	1	1
IGBT MODULE	1	3
AMBIENT	1	1
FILTER OPTION	1	1

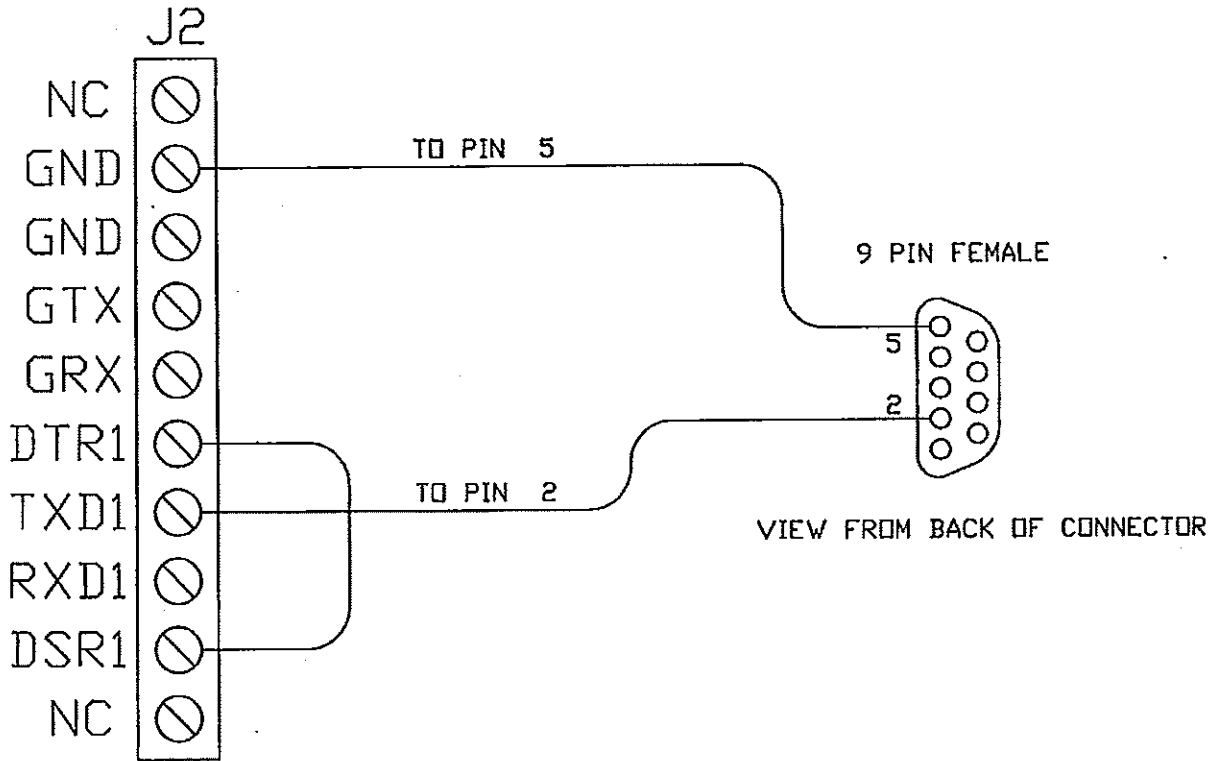
STYLE "D"				
	351	503	790	1100
SCR HEAT SINK	1	1	1	1
IGBT MODULE	3	3	3	3
AMBIENT	1	1	1	1
FILTER OPTION	1	1	1	2

ACC COMMUNICATION NOISE WIRING CHANGES



Black wires on J8 and J9 must be cut off clean at the plug with NO wire extending out of the plug other wise there is an antenna effect from the extending wire

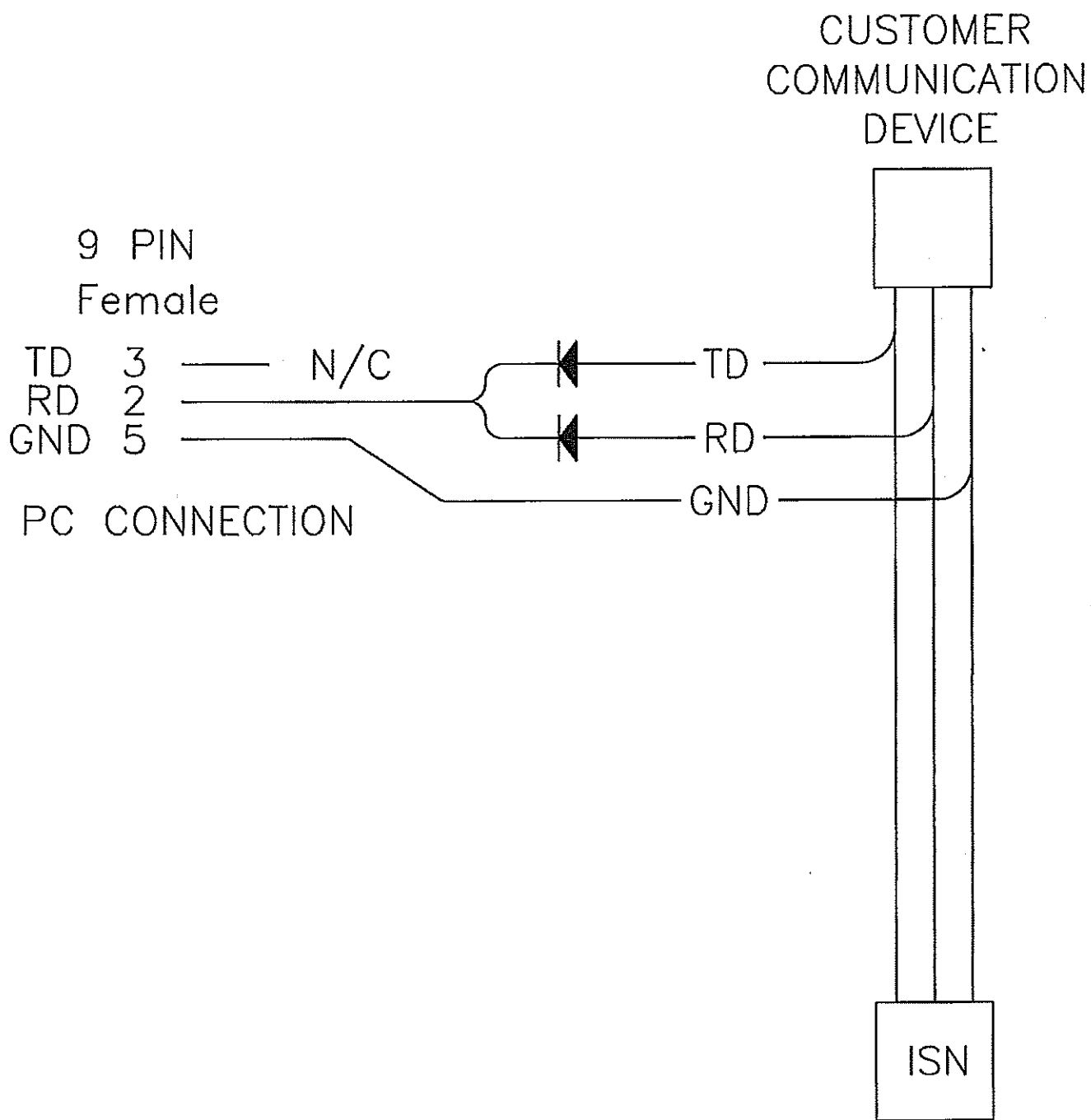
OPTIVIEW TO PC OR PRINTER



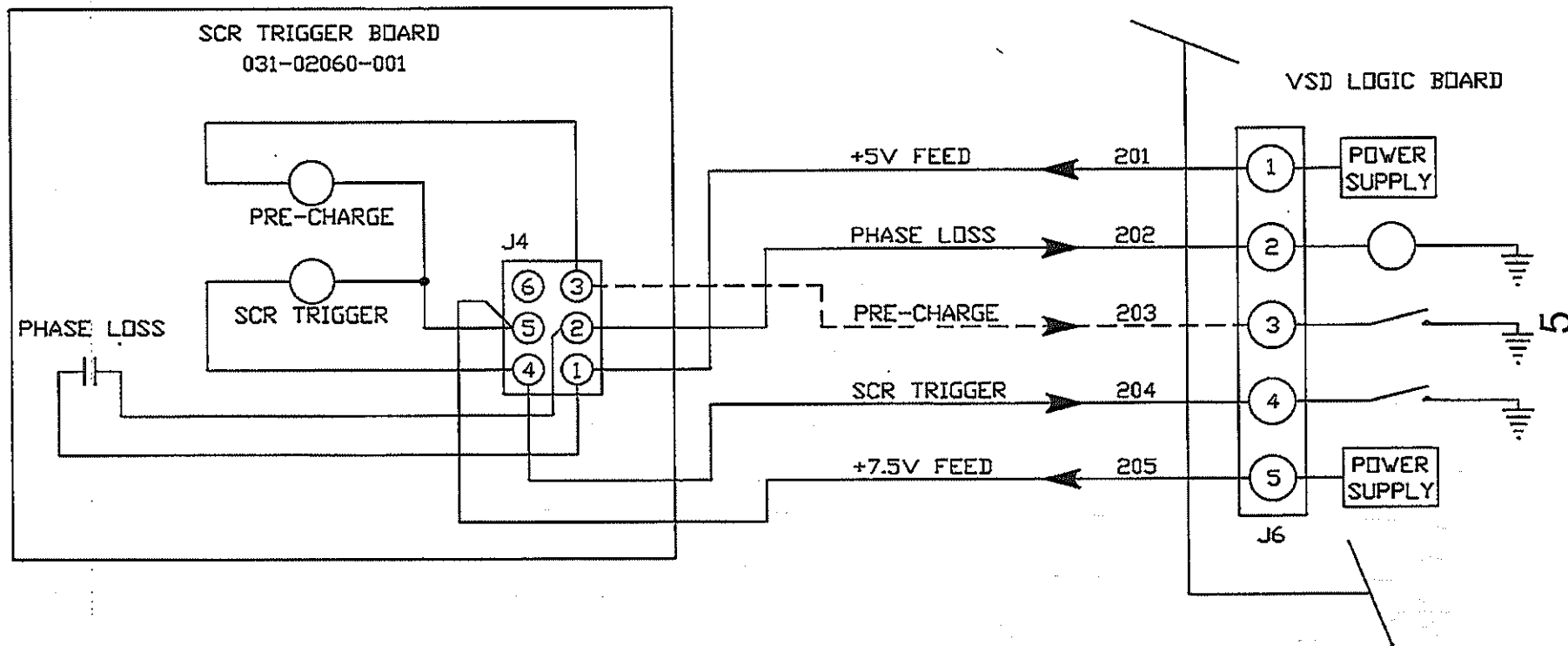
BE SURE BAUD RATE IS THE SAME AT BOTH DEVICES

NONE - 8 - 1

MONITOR CUSTOMER COMMANDS

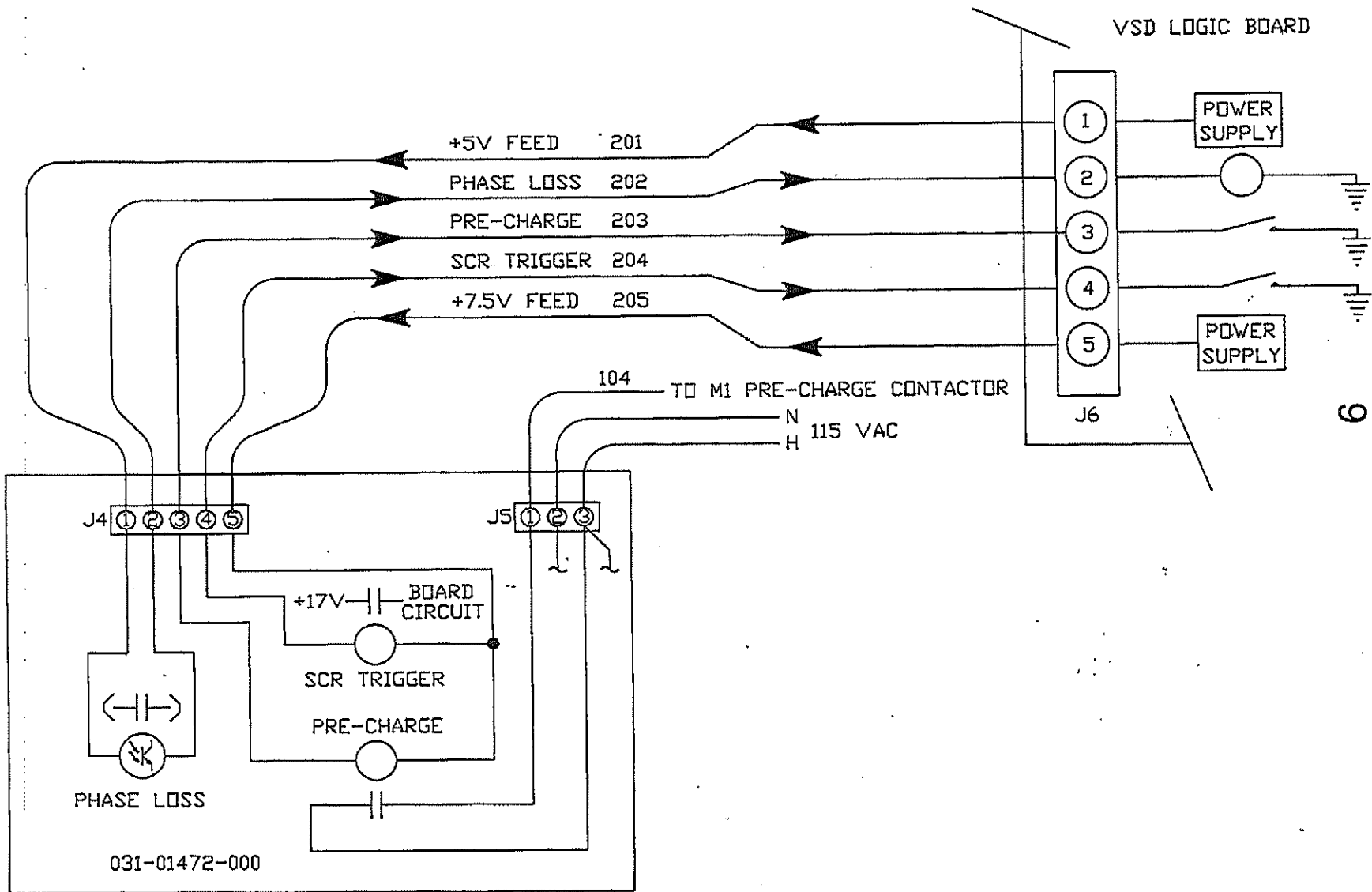


SCR TRIGGER BOARD VYPER DRIVER



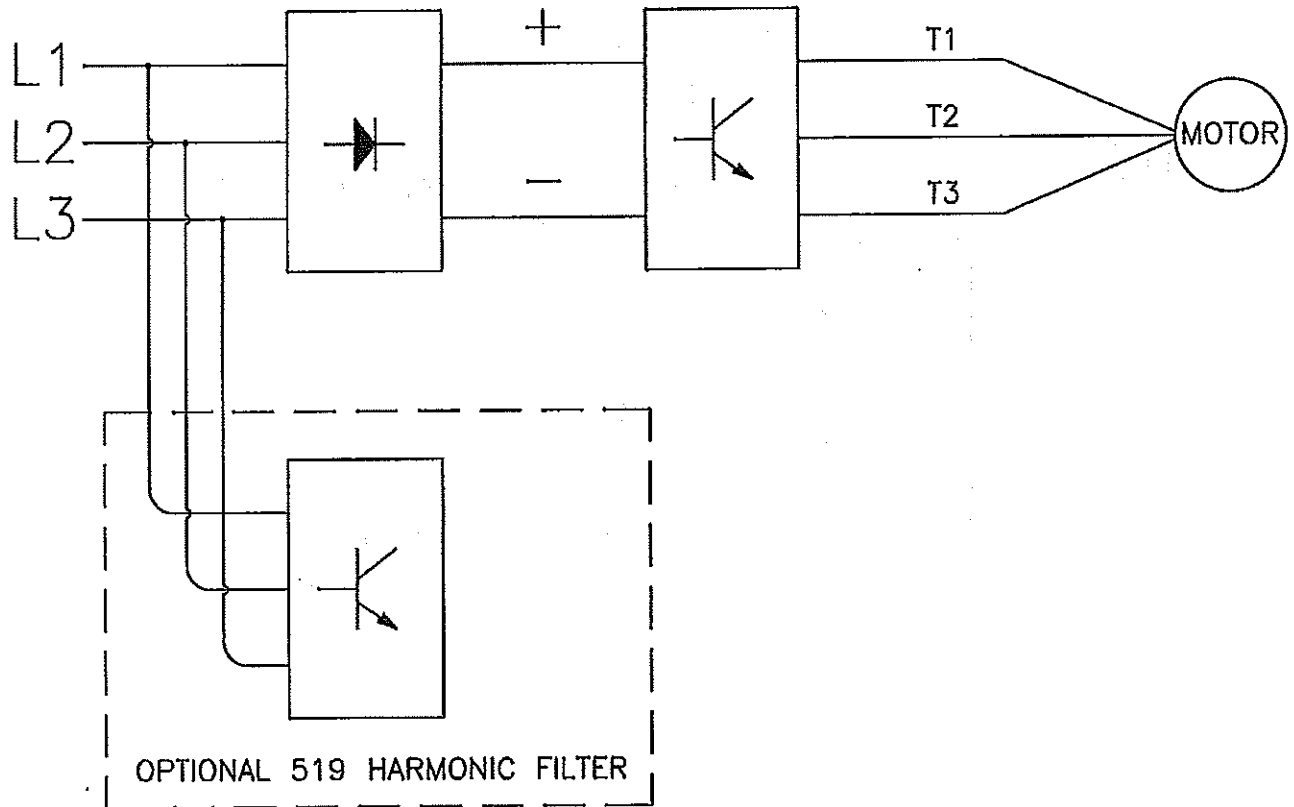
LIMITED ON LATER MODELS

SCR TRIGGER BOARD STYLE D



ONLY THE NECESSARY CIRCUITS ARE SHOWN

VSD DRIVE



VSD TO MOTOR CONNECTION

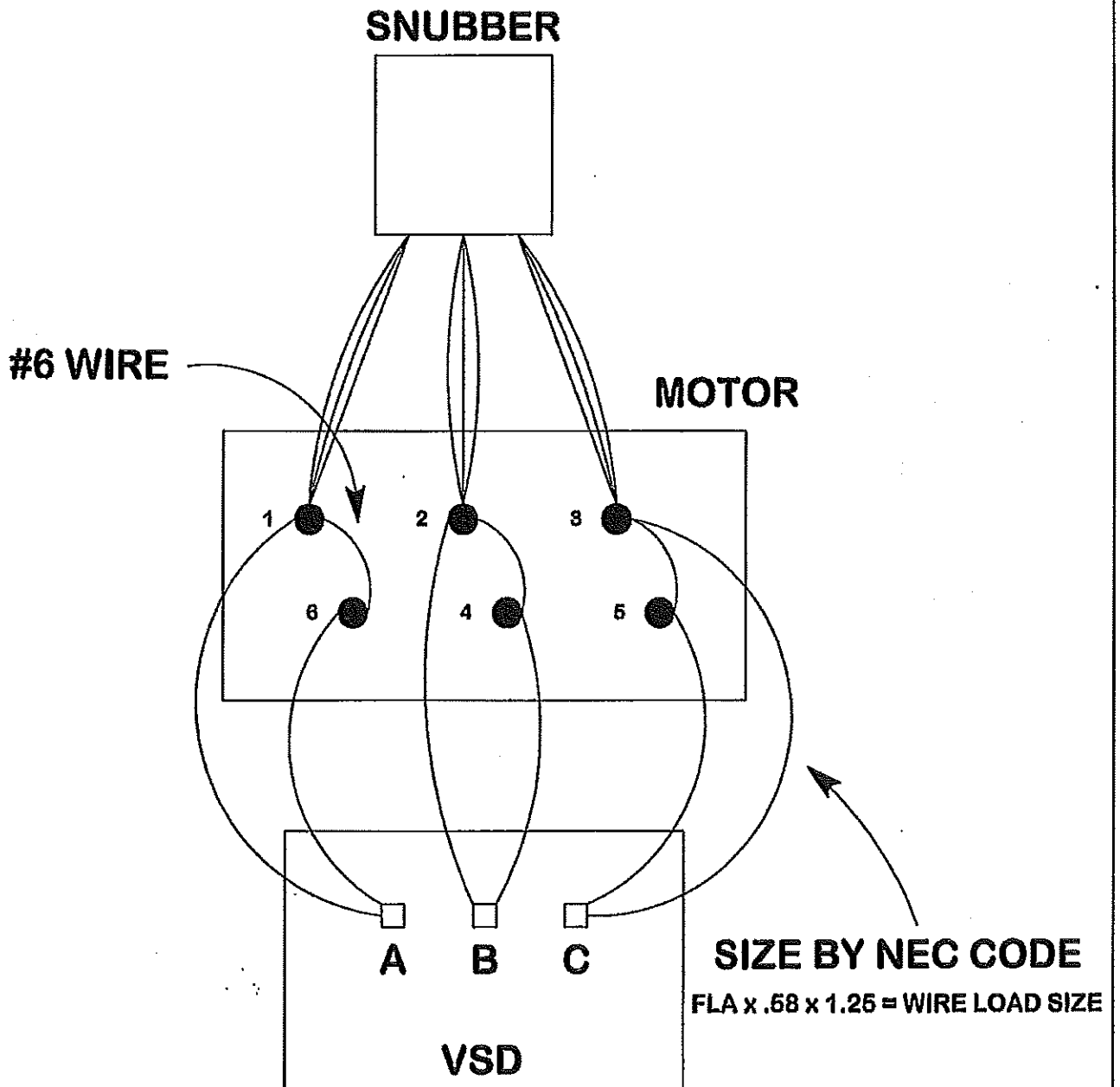
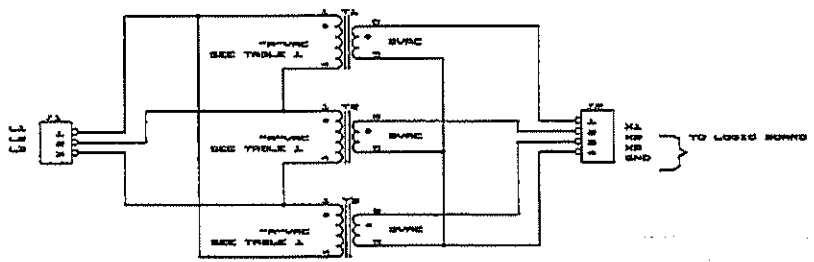


TABLE 1	
PART NUMBER	REV
021-02022-001	100
021-02022-001	075

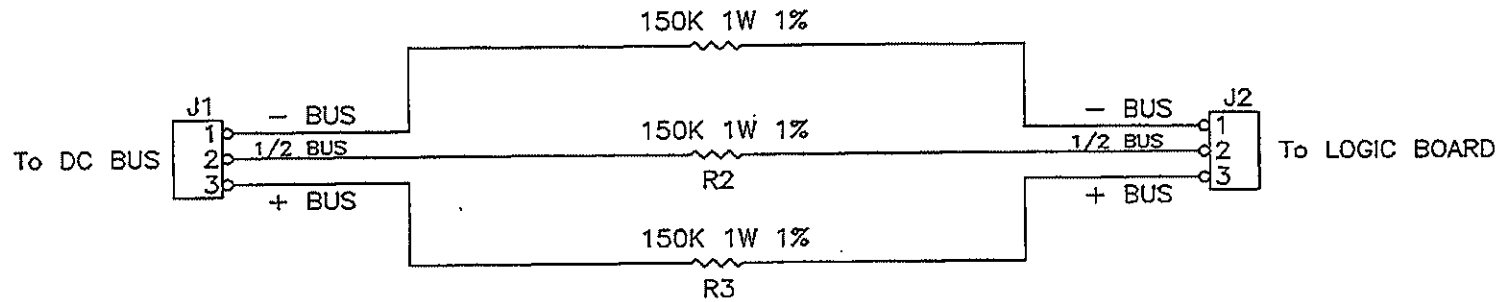


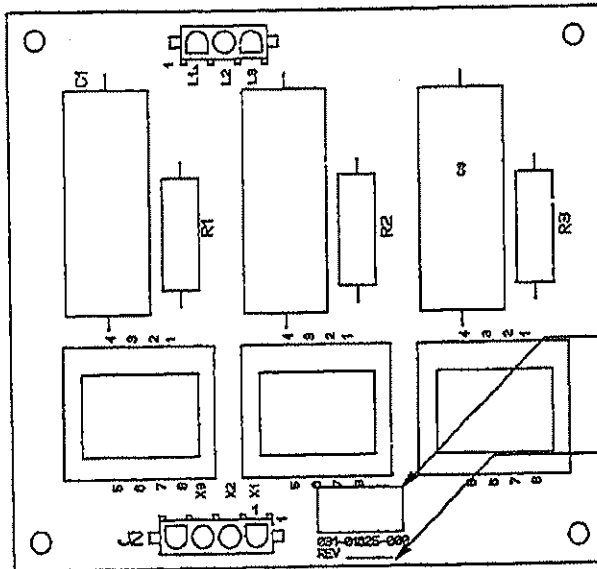
REV	DATE	REVISION RECORD	CHG NO.	DR.	CL.	"ALL PROPRIETARY RIGHTS IN THE SUBJECT MATTER HEREOF ARE RESERVED AND NO PERMISSION IS GRANTED TO REPRODUCE THIS PART IN WHOLE OR IN PART, OR DISCLOSE ANY OF THE INFORMATION HEREIN TO OTHERS WITHOUT WRITTEN RELEASE BY YORK INTERNATIONAL CORPORATION"
—	10-27-55	NEW	0750	JFH		
A	02-17-56	ADDED LINE NO. 021 & TABLE 1. SEE OTHER SHEETS.	0750	KAW	M1	
B	04-05-57	SEE SHEET B.	0751	WB	1ST	

YORK INTERNATIONAL CORP.			
YORK, PA. 17305		E-200	
CONTROL			
THREE-PHASE LINE VOLTAGE ISOLATION BOARD DELTA PRIMARY			
DR. J. ANZURETH 10-28-55 YORK, PA. 17305	SEER " "	CRG CODE " 8895	DWG NO 021-02022-001
JAMES S. SEBT		SCALE N.T.S.	REV " "
		SHEET	1 OF 2

TM3 BUS ISOLATOR BOARD

031-01624-000





NOTES:

1. SECURE THE FOLLOWING CAPACITORS TO BOARD USING SEVERAL DABS OF ADHESIVE RATHER THAN A CONTINUOUS BEAD. C1-C2 & C3. ADHESIVE SHALL BE APPLIED AFTER SOLDERING AND CLEANING, PRIOR TO CONFORMAL COATING.
2. CIRCUIT BOARDS SHALL BE ASSEMBLED AND CLEANED PER CE STANDARD E-9.
3. MARK MFR'S INITIAL AND SERIAL NO. 1/8" HIGH MINIMUM PER CE STANDARD E-9.
4. MARK APPROPRIATE BILL OF MATERIAL REVISION LEVEL 1/8" HIGH MINIMUM PER CE STANDARD E-9.
5. COVER ASSEMBLED BOARD (BEFORE TESTING AND BURN-IN) ALL OVER WITH CONFORMAL COATING, CONAP CE-475 (2002 INL. THICKNESS) OR HUMISEAL 122 (2002 INL. THICKNESS) PER CE STANDARD E-9 EXCEPT HEADERS J1, J2.
6. VENDOR TESTING (PERFORM AFTER COATING): PER CE STANDARD (SEE MATERIAL AREA IN TITLE BLOCK)
7. PACKAGING: ALL PRINTED CIRCUIT BOARDS SHALL BE PACKAGED PER CE STANDARD E-9, SECTION 4.
8. RECEIVING INSPECTION - ALL SHIPMENTS THAT DO NOT COMPLY WITH CE STANDARD E-94, SECTION 5 SHALL BE SCRAPPED AT VENDOR'S EXPENSE.
9. PURCHASING: APPROVED SOURCES OF SUPPLY:
GALT CONTROLS INC., YORK, PA.
CALCO MFG., DIV. OF RAM INDUSTRIES, READING, PA.

ASSEMBLY DRAWING

YORK INTERNATIONAL CORPORATION
YORK, PA 17405

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	IR	CK
—	2-2-65	NEW	NOT RECD	JMN	
A	8-28-65	REMOVED R1-R7 ADDED T1-T3 AND C1-C3	NOT RECD	JMN	
		PCB REV ONE			
B	12-9-65	ADDED R1-R3. PCB REV 2	0705 0305	JMN	KWB

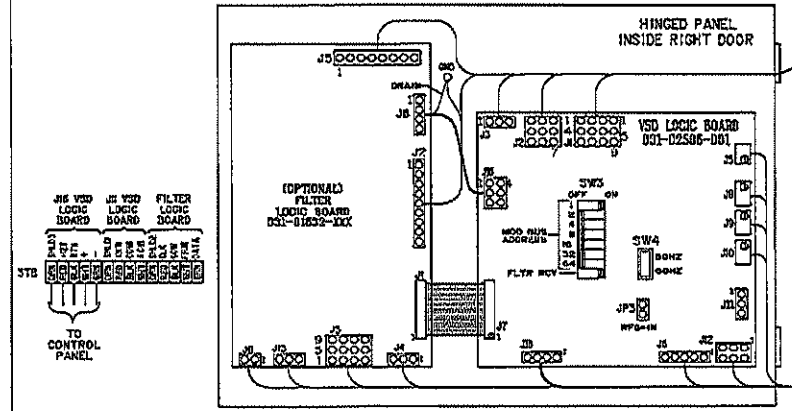
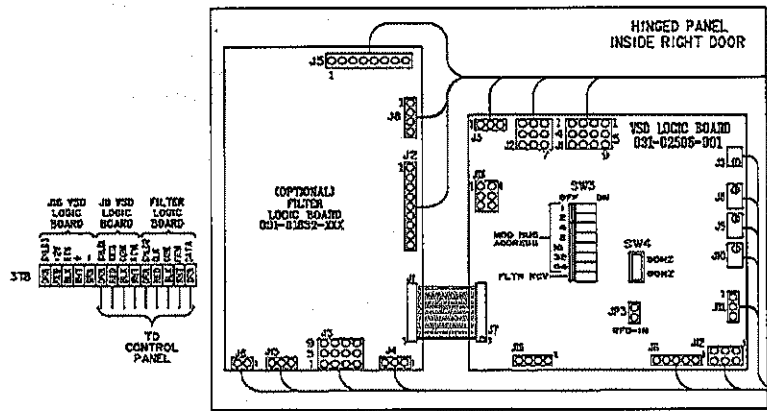
*ALL DIMENSIONS SHOWN ON THIS DRAWING MUST BE TO THE CENTER UNLESS OTHERWISE SPECIFIED AND NO DIMENSION IS GIVEN TO REFERENCE THIS POINT OR HOLE OR IN PLACE OR LOCATED ANY OF THE DIMENSIONS UPON IT TO BEING UNLESS SPECIFICALLY NOTED BY YORK INTERNATIONAL CORPORATION

DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES PER ENG. STD. M-282 WELDING PER ENG. STD. M-38 REF. DWG.		CONTROL, IEEE 5/8 LINE VOLTAGE ISOLATION BOARD (REF. DWG)		MATERIAL TYPE _____ ENG. STD. E-282 PART NO. _____ CUT SIZE _____	
NAME DR. J. NAZARETH	DATE 02-02-65	SIZE B	CAGE NO. 66935	DRAWING NUMBER 031-01625-000	
APPR. F. WILLS	02-02-65				
SCALE: N.T.S.		WT. =	LBS.	ORD. NO.	SHEET 2 OF 3

035-21563-000
REV. -

WIRING FOR
YORK PROTOCOL VERSION
PANEL PART NUMBERS ENDING WITH -DXX SERIES

WIRING FOR
MODBUS PROTOCOL VERSION
PANEL PART NUMBERS ENDING WITH -7XX SERIES



1. VSD LOGIC BD. J11 PLUGGED IN
2. VSD LOGIC BD. J16 UNPLUGGED
3. VSD LOGIC BD. J15 UNPLUGGED
4. FILTER LOGIC BD. J8 PLUGGED IN FROM MAIN HARNESS
5. VSD LOGIC BD. SW3 ALL POSITIONS OFF

1. VSD LOGIC BD. J11 UNPLUGGED
2. VSD LOGIC BD. J16 PLUGGED IN
3. VSD LOGIC BD. J15 PLUGGED INTO J8 OF FILTER LOGIC BD. REMOVE SMALL CABLE ATTACHED TO MAIN HARNESS FOR THIS CONNECTION.
4. VSD LOGIC BD. SW3 POSITIONS 1 AND FLTR REC ON, ALL OTHER POSITIONS OFF.

NOTE:
TO CONVERT COMMUNICATIONS PROTOCOL METHODS, MODIFY CABLE CONNECTIONS ON LOGIC BD. AND CONTROL PANEL WIRING AT 3TB AS SHOWN ABOVE.

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.	REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
-	NEW		0700								
			0007								

YORK INTERNATIONAL CORPORATION
YORK, PA. 17405

<small>ALL PROPRIETARY RIGHTS IN THE SUBJECT MATTER HEREOF ARE RESERVED, AND NO PERMISSION IS GRANTED TO REPRODUCE THIS PRINT OR MANUAL OR IN PART, OR TRANSMIT ANY OF THE INFORMATION CONTAINED HEREIN TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION BY YORK INTERNATIONAL CORPORATION.</small>	<small>DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. TOLERANCES FOR DIM. STD. M-98 UNLESS OTHERWISE SPECIFIED.</small>	WIRING DIAGRAM D-MOD VSD YORK PROTOCOL VS MODBUS PROTOCOL	MATERIAL TYPE _____ ENG. STD. _____ PART NO. _____ CUT SIZE _____
	NAME: DR. K.E. ROBERTS DATE: 10-08-06 APPR. M.S. YOUNG SCALE: N.T.S.	SIZE: C CAGE NO: 66935 LBS. _____ ORIG. NO. _____	DRAWING NUMBER: 035-21563-000 SHEET _____

02-10-07 4
19-22

CK200J0.WIRING DIAGRAM 035-21563-000

John Busse (y1002143) 12-Jul-2007 13:32 Engineering ECN

Electronics		0707-0040		ECN Closed	
Most Recent	Home ECN	Search View Parts	Reports Drawings	New ECN	Help Doc
EC:	0707-0040	Priority:	1 - Low Future Effectivity	Sales#:	
	Date due: 22-Jun-2007	Product:	Standard	Job#:	1628T and E70411
	Complete: 03-Jun-2007	Product Line:	Miscellaneous (MI)	Model#:	
Status:	Complete	Reason:	Improvement	Quantity:	
	Date set: 08-Jun-2007	Source:	Engineering	Local Track#:	
	Date due:	Plants:	RAM	Red Line:	
Effective On:		EC Snapshots:	No	Refer To:	
Submitted:	Bart Smith	Description: Job Number E70411 - Add additional 5V supply wire to OptiView Panel Power Supply harnesses per attached marked drawings. Also revise associated OptiView Panel wiring diagrams to show new wire.			
	22-May-2007	Job Number 1628T - Change stall detector board part number from 031-02418-000 to 031-02418-001 per attached marked drawings to use Improved design. Also revise associated Panel wiring diagrams to eliminate reference to particular line number stall detector board.			
Manager:	Kathy Rogers	Explanation: OptiView microboards have experienced some re-boot problems in the field due to a voltage drop that can occur at the power supply connector when the mating contacts are in less than optimal condition. The problem occurs when the display is turned on, causing a current surge through the +5 VDC supply contact at the microboard power supply connector. The power supply harness is being revised to add a second wire and contact for the microboard 5V supply to reduce the chance of a significant voltage drop during the current surge.			
Signatures Assigned To		The stall detector board has been revised with improved filtering. The board part number has been changed from 031-02418-000 to 031-02418-001. The Panel drawings/BOMs must be revised to specify the new board part number.			
Attachments		Connect a wire between J2-1 of the Power Supply to J1-5 of the Microboard Power supply pin 026-25157-000 Micro board pin 026-34145-000 Amp Part No. 840252-2 Amp Part No. 794231-1			
1. 0707-0040 Bom Revisions.zip	07-Jun-2007	Digit-Key A18991CT-NO Digit-Key A28814-NO Min Order 100 Min Order 100			
2. 0707-0040 Item listing 1.txt	07-Jun-2007	Digit-Key 800-344-4539 www.digitkey.com			
3. 0707-0040 Item listing 2.pdf	07-Jun-2007				
4. BAS050707-00_OptiView Power Supply Harness.xls	22-May-2007				
5. BAS052207-00_StallBoardchange.xls	22-May-2007				
6. distr_07070040.doc	01-Jun-2007				
7. E-348.doc	01-Jun-2007				

If you want a whole new harness instead of just adding the one new wire from the parts from DIGI-KEY
New harness part number 571-02284-272



BY JOHNSON CONTROLS

Service Information

File In/With: 160.00-M1, 160.00-M4

S10188

New 608

Equipment Affected: YK Chiller, Retrofit Drives w/OptiSpeed VSD

Improper Calculation of the 105% Overload Timer

Background

New drive logic boards are being used on all OptiSpeed Compressor Drives. The part number of the new board is 031-02506-00X. This new board has many new features, but we found a problem in how the board determines if the motor is in an overload condition. The problem is causing the drive to trip on overload before the vane control believes that the motor is overloaded.

Units Affected:

All models of TM and VSD OptiSpeed Drives built between 2/07 and 6/08.

Cause of Failure:

Within the hardware of the new board there is a problem that caused the 105% overload timer to start, but send a percent of full load amps of 102% to the chiller control center. In this condition, the chiller control center had no reason to close the vanes and reduce the current flow in the motor. A filter was added within the software of the new board to correct for this problem.

Solution for Problem:

The software (U34) in the 031-02506-00X board was changed to correct this problem. The software versions that contain this problem are C.VSD.07.01.01, C.VSD.17.01.01, and C.VSD.27.01.01.

The part number for the new software in a TM model VSD is 031-02547-001. The new software version number is C.VSD.07.01.04.

The part number for the new software in a VSD model VSD for 400 or 460 VAC input is 031-02547-002. The new software version number is C.VSD.17.01.04.

The part number for the new software in a VSD model VSD for 575 VAC input is 031-02547-003. The new software version number is C.VSD.27.01.04.

Warranty Consideration:

Drives that were shipped as part of a new chiller will be warranted under the standard warranty policy. Please try to combine this work with other work performed on the chiller.

For drives that are part of an aftermarket retrofit, contact Baltimore Parts for warranty consideration.

Date: 1/10/2007

Time : 12:40:23 PM

PART NO.	ITEM	QUANTITY PER UNIT	DESCRIPTION
071-02012-002	1	1	COVER
371-02012-209	2	1	BRACKET, SUPPORT
021-13757-000	3	2	SCREW, TAP THD FORM, #6 X 1/4 LD.
025-32570-000	4	1	POT, 2500 OHMS, 2 WATT
025-09080-000	5	1	STRAIN RELIEF
571-02012-005	6	1	CABLE ASSEMBLY
029-24198-000	7	1	COUPLING
021-18674-000	8	2	SCREW, CAP HEX SOC. HD. 10-24 X 5/8
021-08292-000	9	2	LOCKWASHER, HEL. SPD. #10
025-18167-000	10	1	STRAP, CABLE
071-02012-006	11	1	CAP
	12		
021-18487-000	13	2	SCR./WASH. ASSEM. 15ENS1 1/4-20 X 1/2

NOTES:

- ITEMS 7, 8, 9 AND 11 SHALL BE UNASSEMBLED AND PLACED IN A SEPARATE POLYETHYLENE BAG.
- ALL ITEMS SHALL BE PACKAGED IN POLYETHYLENE BAG AND MARKED WITH YORK PART NO.

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
E	10-03-01	REVISED NOTES PER ENG.	0804 1831	KAS	KAS
B	02-03-95	DELETED NOTE 3.	0789 3059	CBH	
C	03-23-81	DEL. ITEM 12: ITEM 7 PART NO. WAS 029-21795. QTY. WAS 2: ITEM 2, -109 WAS -009: REV. PICTURE OF ITEM 2.	0403 1432	REN	REN

YORK INTERNATIONAL CORPORATION
YORK, PA. 17405

KIT, PRV POSITION SENSOR V.S.D.

MATERIAL TYPE _____ ENG. STD. _____
PART NO. _____
CUT SIZE _____

SCALE: N.T.S.

DR. J.W. MEDRICK DATE 02-12-95
APPR. W.D. DELLINGER 03-04-95
SCALE: N.T.S.

SIZE B CAGE NO 66935 DRAWING NUMBER 071-02012-000

WT. * LBS. ORIG. NO. 075-02012B000 SHEET

Title: C:\DRAWINGS\wane pot\071-02012-000.cgm

064-48503-000 - BACK SEAL
SHAFT THAT FITS HERE

OPTIVIEW MICRO BOARD PLUGS

	MALE	FEMALE
2 pin plug	025-29130-000	
3 pin plug	025-29185-000	
4 pin plug	025-28959-000	cap 025-34536-000
6 pin plug	025-28382-000	cap 025-32960-000
9 pin plug	025-28383-000	cap 025-34537-000
12 pin plug	025-28384-000	cap 025-34538-000
15 pin plug	025-28385-000	cap 025-34539-000
20 pin plug	025-34116-000	J9 (optiview only)
22 pin plug	025-34117-000	J8 (optiview only)
24 pin plug	025-34533-000	J7 (optiview only)

order above by quantity required

PINS for plugs 025-28386-000 (pins)

PINS for cap 025-30999-000

order by quantity no less than 25

EXTRACTION TOOL FOR ABOVE PINS

AMP No. 455822-2

NEWARK ELECTRONICS No. 50F677

PHONE No. 1-800-463-9275 WEB SITE - WWW.NEWARK.COM

TRANSDUCER AND THERMISTOR PLUGS

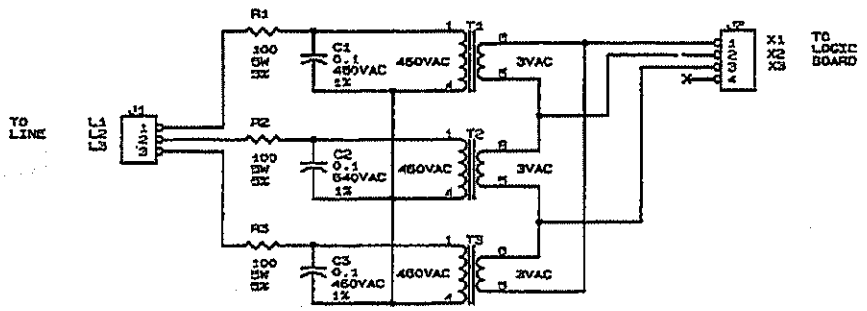
2 pin female plug (harness end)	025-28951-000
2 pin male plug (thermistor end)	025-28948-000

3 pin female plug (harness end)	025-28954-000
3 pin male plug (transducer end)	025-28953-000

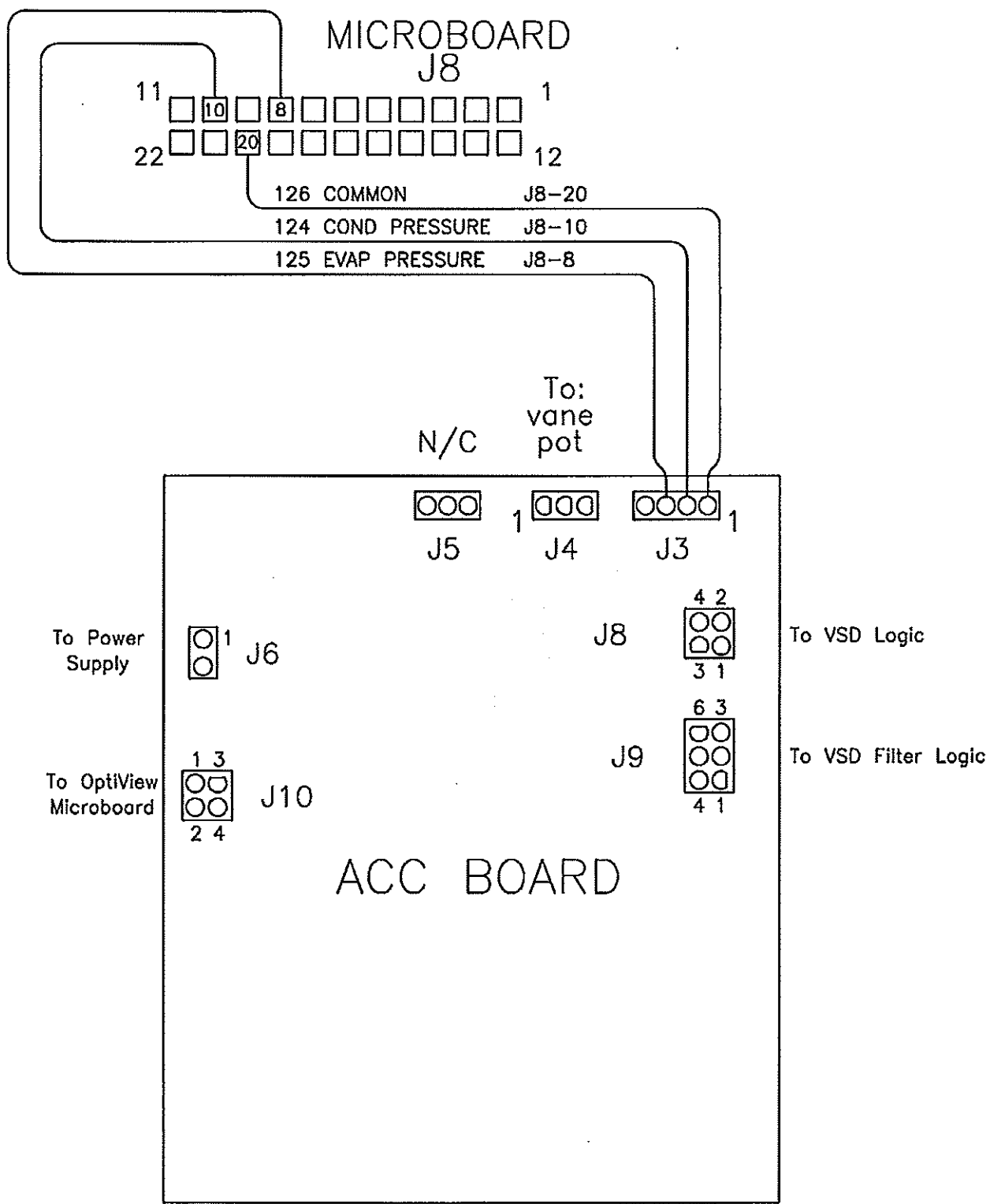
order above by quantity required

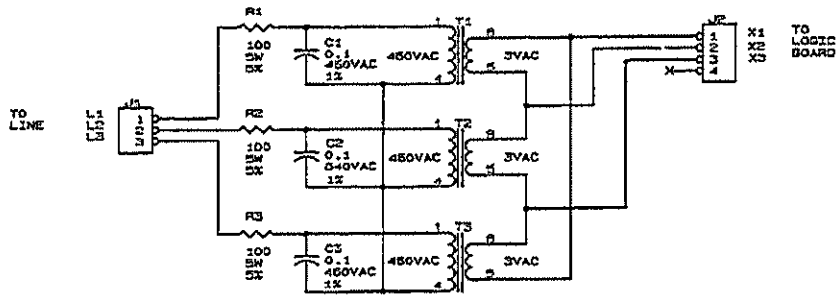
	173707-1
female pins for the female plugs	025-28952-000
male pins for the male plugs	025-28949-000

rubber boots to seal wire behind plug 025-28950-000
order above by quantity no less than 25



PRESSURE TRANSDUCERS TO ACC





21

REV LEV	DATE	REVISION RECORD	CHG NO.	DR.	CK.	YORK INTERNATIONAL CORP. YORK, PA. 17405				
-	02-1-05	NEW	NOT REL'S	JMN		CONTROL				
A	05-10-05	REMOVED R1-R7 AND ADDED T1-T3, C1-C3. PCB REV ONE	NOT REL'S	JMN		IEEE-510 LINE VOLTAGE ISOLATION BOARD (REF. DWG.)				
B	09-21-05	ADDED R1-R3, C1-C3 WAS 0.01, 550VAC. PCB REV 2	0795 -3005	JMN	Kuo	DR. J. NAZARETH 02-02-05 APPR. F. WILLS 02-02-05	SIZE B	CAGE CODE 66935	DWG NO 031-01625-999	REV
						February 7, 1998	SCALE N.T.S.		SHEET 1 OF 3	

"ALL PROPRIETARY RIGHTS IN THE SUBJECT MATTER HEREOF ARE RESERVED AND NO PERMISSION IS GRANTED TO REPRODUCE THIS PART IN WHOLE OR IN PART, OR DISCLOSE ANY OF THE INFORMATION UPON IT TO OTHERS WITHOUT WRITTEN RELEASE BY YORK INTERNATIONAL CORPORATION"

CHANGE MINIMUM START FREQUENCY ON VSD

YK chillers

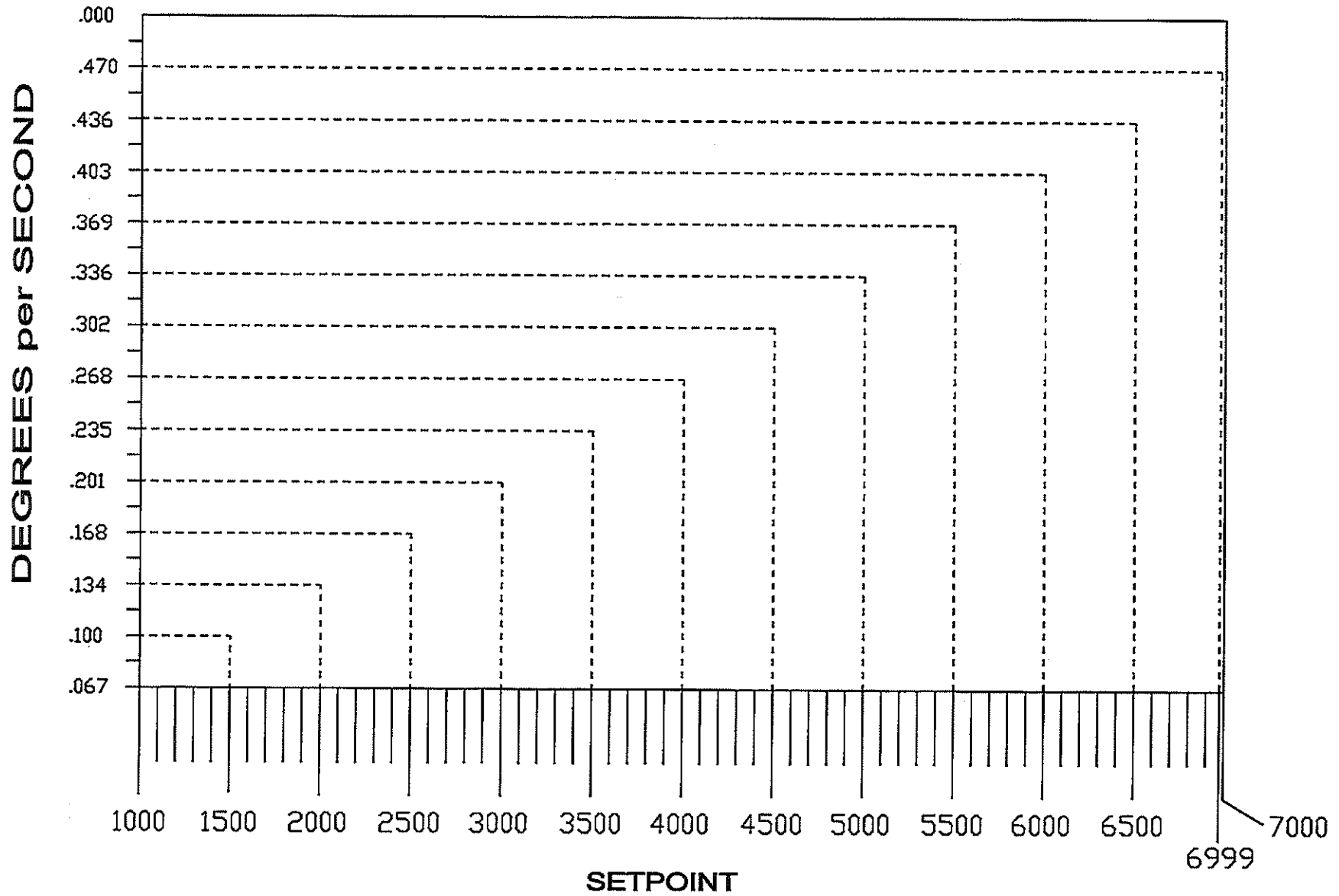
Software must be 19 or higher

Must use Admin password

Go to VSD tuning screen

Enter minimum start-up hertz
30 to 60

STABILITY LIMIT SETTINGS



Day 2 - 8 AM

