

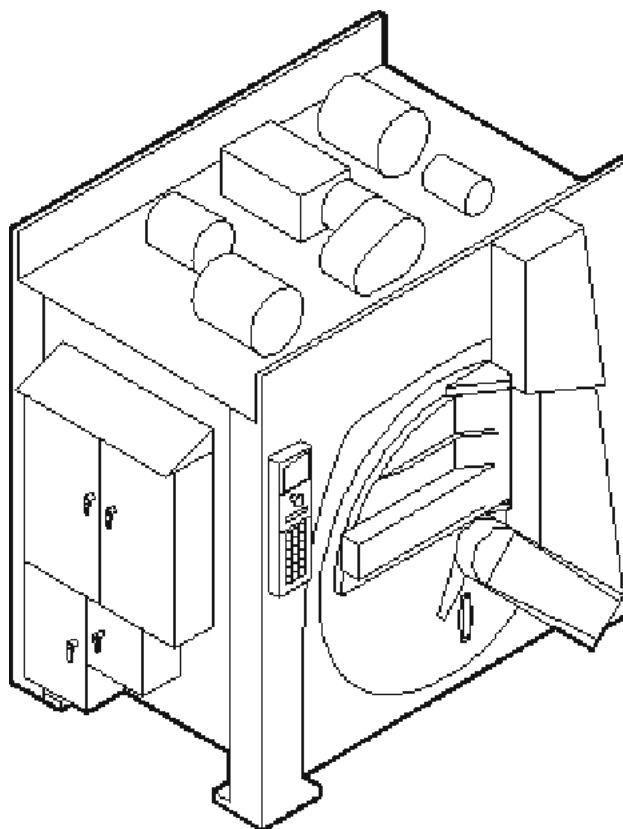
Published Manual Number/ECN: ME6HWESSDE/2008254A

- Publishing System: TPAS
- Access date: 6/18/2008
- Document ECN's: Latest Available



**Read the
separate
safety
manual
before
installing,
operating,
or servicing**

Schematic/Electrical Parts— Staphguard Washer-Extractor Mark II Controls



Please Read

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References to Yellow Troubleshooting Pages—This manual may contain references to “yellow pages.” Although the pages containing trouble-shooting procedures are no longer printed on yellow paper, troubleshooting instructions, if any, will be contained in the easily located “Troubleshooting” section. See the table of contents.

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for ME6HWESSDE/2008254A

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COMPONENT PARTS LIST

W6WESSPL/2003252N

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
	>>CONTROL BOX LAYOUTS				
001	DETAIL-16OUTPUT BOARD #1	W6WESSTAG	B2TAG86013	M6 OPENPKT,DIV,STAPH O/P#1	SEE FUNCTION
002	DETAIL-16OUTPUT BOARD #2	W6WESSTAG	B2TAG86021	M6 OPENPKT,DIV,STAPH O/P #2	SEE FUNCTION
003	DETAIL-16INPUT/8OUTPUT #1	W6WESSTAG	B2TAG86015	M6OPENPKT,DIV,STAPH I/O#1	SEE FUNCTION
004	DETAIL-ANALOG TO DIGITAL BOARD #1	W6WESSTAG	B2TAG86026	M6 A TO D BOARD #1 CONT BX	SEE FUNCTION
005	DETAIL-HIGH VOLTAGE CONTROL BOX	W6WESSTAG	B2TAG84008	MICRO 6 CONTROL PANEL LEFT	SEE FUNCTION
006	DETAIL-LOW VOLTAGE CONTROL BOX	W6WESSTAG	B2TAG86048	M6 STAPHGUARD RIGHT BOX	SEE FUNCTION
007	DETAIL-PROCESSOR CONTROL BOX	W6WESSTAG	B2TAG89058	MIC 6 8088 PROCESSOR CNT BX	SEE FUNCTION
008	DETAIL-AUTOSPOT CONTROL BOX 1DIR	W6WESSTAG	B2TAG85012	MIC 6 AUTOSPOT=1DIRECTION	SEE FUNCTION
009	DETAIL-AUTOSPOT CONTROL BOX 2DIR	W6WESSTAG	B2TAG90051	AUTOSPOT CONTROL BOX	SEE FUNCTION
010	DETAIL-DIGITAL TO ANALOG BD #1	W6WESSTAG	B2TAG86025	M6 D TO A BOARD CONT BOX	SEE FUNCTION
011	DETAIL-VARIABLE SPEED CONTROLLER	W6WESSTAG	B2TAG88052	VARI SPD C-BOX - 10HP AND LS	SEE FUNCTION
BA	>>PRINTED CIRCUIT BOARDS				
BAD-1	BOARD-ANALOG TO DIGITAL CONVERTER	W6WESSBWB	08BSADDBT	BOARD:W/E+DYE SERIAL ATO D TEST	LOW VOLT BOX
BBB-1	BOARD-MEMORY BATTERY BACKUP	W6WESSBWB	08BSBB1T	BOARD: SER BATT BACKUP-TEST	PROCESSOR BX
BDA-1	BOARD-DIGITAL TO ANALOG CONVERTOR	W6WESSBWB	08BSBADT	BOARD:SERIAL D TO A-TEST	LOW VOLT BOX
BFS-1	BOARD-FLOW SENSOR SIGNAL COND. BD.	W6WESSFS	08BNDFS	FLOW SENSOR SIG COND>TESTED	LOW VOLT BOX
BIO-1	BOARD-8OUTPUT/16INPUT #1	W6WESSBWB	08BS816BT	BOARD:SERIAL 8OUT-16IN-TEST	LOW VOLT BOX
BO16-1	BOARD-16 OUTPUT #1	W6WESSBWB	08BSO16BT	BOARD:SERIAL 16 OUTPUT-TEST	LOW VOLT BOX
BO16-2	BOARD-16 OUTPUT #2	W6WESSBWB	08BSO16BT	BOARD:SERIAL 16 OUTPUT-TEST	LOW VOLT BOX
BPB	BOARD-MICROPROCESSOR	W6WESSBWB	08BSPDT	8088 PROCESSOR -> TESTED	PROCESSOR BX
BTP-1	BOARD-TEMP PROBE INTERFACE-2CHANL	W6WESSBWB	08BNTPT	BD-THERMISTOR 2 CHAN->TESTED	LOW VOLT BOX
CD	>>RELAY-TIME DELAY				
CDEXN	DELAY-EXTRACT HAS ENDED	W6WESSSPB	09CF002037	TDR F2S 2PDT 11PIN 120V60/50C	LOW VOLT BOX
CDS+N	DELAY-3-WIRE DISABLE	W6WESSS+B	09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	LOW VOLT BOX
CDVS	DELAY-VARIABLE SPEED FAULT	W6WESSVP	09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	VARI SPD BOX
CDWA	DELAY-CCW WASH	W6WESSVP	09CF001037	TDR F1S 2PDT 11PIN 120V60C	VARI SPD BOX
CDWC	DELAY-CW-WASH	W6WESSVP	09CF001037	TDR F1S 2PDT 11PIN 120V60C	VARI SPD BOX
CL	>>RELAY-LATCH				
CLDCC	LATCH-CLEAN SIDE DOOR	W6WESSDB	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CLDCD	LATCH-CLEAN SIDE DOOR	W6WESSDB	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	AUTOSPOT BOX
CLPCC	LATCH-TRANSFORMER TO CLEAN SIDE	W6WESSCSB	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CR	>>RELAY-PILOT OR CONTROL				

COMPONENT PARTS LIST

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<u>COMPONENT</u>	<u>FUNCTION OF</u>	<u>WHERE TO FIND</u>	<u>LOCATION</u>
<u>NUMBER</u>	<u>THIS COMPONENT</u>	<u>THIS COMPONENT</u>	<u>DESCRIPTION</u>
CRASA	RELAY-AUTOSPOT ENABLED	W6WESSASB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRASB	RELAY-ENABLE RECOGNIZE SLOW	W6WESSASB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRASI	RELAY-AUTOSPOT DESIRED	W6WESSASB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRASJ	RELAY-INCH NOT AUTOSPOT	W6WESSASB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRASK	RELAY-AUTOSPOT JOG DESIRED	W6WESSASB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRASL	RELAY-AUTOSPOT RECOGNIZE SLOW	W6WESSASB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRASM	RELAY-AUTOSPOT RECOGNIZE SLOW	W6WESSASB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRASS	RELAY-AUTOSPOT STOP	W6WESSASB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRAST	RELAY-AUTOSPOT STOP	W6WESSASB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRCCR	RELAY-TRANSFER TO SOIL SIDE	W6WESSCSB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC01	RELAY-CHEM INTERPERT #1	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC02	RELAY-CHEM INTERPERT #2	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC03	RELAY-CHEM INTERPERT #3	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC04	RELAY-CHEM INTERPERT #4	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC05	RELAY-CHEM INTERPERT #5	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC06	RELAY-CHEM INTERPERT #6	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC07	RELAY-CHEM INTERPERT #7	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC08	RELAY-CHEM INTERPERT #8	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC09	RELAY-CHEM INTERPERT #9	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC10	RELAY-CHEM INTERPERT #10	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC11	RELAY-CHEM INTERPERT #11	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC12	RELAY-CHEM INTERPERT #12	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC13	RELAY-CHEM INTERPERT #13	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC14	RELAY-CHEM INTERPERT #14	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRC15	RELAY-CHEM INTERPERT #15	W6WESSCPA	RELAY 3PDT DIFGOLD 11PIN 120VAC
CREXA	RELAY-AMPSAVER AMPS O.K.	W6WESSEAB	RELAY 3PDT DIFGOLD 11PIN 24V
CRPCC	RELAY-CLEAN SIDE HAS CONTROL	W6WESSCSB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRPCD	RELAY-CLEAN SIDE HAS CONTROL	W6WESSCSB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRPLA	RELAY-DOOR LATCH	W6WESSSPB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRPLC	RELAY-DOOR LATCH CLEAN SIDE	W6WESSDB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRPLS	RELAY-DOOR LATCH CLEAN SIDE	W6WESSDB	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRS+	RELAY-START 3-WIRE	W6WESSS+B	RELAY 3PDT DIFGOLD 11PIN 120VAC
CRS+S	RELAY-START 3-WIRE	W6WESSS+B	RELAY 3PDT DIFGOLD 11PIN 120VAC

COMPONENT PARTS LIST

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<u>NUMBER</u>	<u>THIS COMPONENT</u>	<u>THIS COMPONENT</u>			
CRSOC	RELAY-STOP CLEAN SIDE	W6WESSDB	09C01DDDD37	RELAY 3PDT DIFGOLD 11PIN 120VAC	LOW VOLT BOX
CRSOE	RELAY-STOP CLEAN SIDE	W6WESSDB	09C01DDDD37	RELAY 3PDT DIFGOLD 11PIN 120VAC	AUTOSPOT BOX
CRSOS	RELAY-STOP SOIL SIDE	W6WESSDB	09C01DDDD37	RELAY 3PDT DIFGOLD 11PIN 120VAC	LOW VOLT BOX
CRSOT	RELAY-STOP SOIL SIDE	W6WESSDB	09C01DDDD37	RELAY 3PDT DIFGOLD 11PIN 120VAC	AUTOSPOT BOX
CRSP	RELAY-SPEED IS SLOW	W6WESSSPB	09C01DDDD37	RELAY 3PDT DIFGOLD 11PIN 120VAC	LOW VOLT BOX
CRSS	RELAY-START	W6WESSS+B	09C01DDDD37	RELAY 3PDT DIFGOLD 11PIN 120VAC	LOW VOLT BOX
CS	>>CONTACTOR-MOTOR STARTER				
CSDR	CONTACTOR-DRAIN MOTOR	W6WESSMCB	MESSAGE EW	SEE CSDR-1,-2 OR -3 FOR PART NUMBER	HIGH VOLT BX
CSDR-1	CONTACTOR-DRAIN MTR 4231SP2,&SP3	W6WESSMCB	09MC04C337	18A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSDR-2	CONTACTOR-DRAIN MTR 4244 & 6044	W6WESSMCB	09MC04D337	25A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSDR-3	CONTACTOR-DRAIN MTR 7244SP2 &SP3	W6WESSMCB	09MC04E337	32A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSE1	CONTACTOR-LO EXTRACT	W6WESSMCB	MESSAGE EW	SEE CSE1-1,-2 OR -3 FOR PART NUMBER	HIGH VOLT BX
CSE1-1	CONTACTOR-LO EXT.MTR4231 & 4244	W6WESSMCB	09MC04C337	18A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSE1-2	CONTACTOR-LO EXT.MTR 6044 SP2/3	W6WESSMCB	09MC04G337	37A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSE1-3	CONTACTOR-LO EXT.MTR 7244 SP2/3	W6WESSMCB	09MC04L337	60A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSE2	CONTACTOR-HI EXTRACT	W6WESSMCB	MESSAGE EW	SEE CSE2-1-2 OR-3 FOR PART NUMBER	HIGH VOLT BX
CSE2-1	CONTACTOR-HI EXT.MTR 4231SP2 &SP3	W6WESSMCB	09MC04D337	25A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSE2-2	CONTACTOR-HI EXT.MTR 4244SP2 &SP3	W6WESSMCB	09MC04E337	32A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSE2-3	CONTACTOR-HI EXT.MTR 6044 & 7244	W6WESSMCB	09MC04L337	60A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSJ	CONTACTOR-AUTOSPOT-1DIRECTION	W6WESSMCB	09MC04B337	12A 3P CONT.NR 120V5/6 IEC	AUTOSPOT BOX
CSJA	CONTACTOR-AUTOSPOT	W6WESSMCB	MESSAGE EW	SEE CSJC FOR PART NUMBER	AUTOSPOT BOX
CSJC	CONTACTOR-AUTOSPOT 2DIRECTION	W6WESSMCB	09MR04B337	12A 3P REV+2N/C 120V5/6 IEC	AUTOSPOT BOX
CSVS	CONTACTOR-VARIABLE SPEED	W6WESSVP	MESSAGE EW	SEE CSVS-1-2 OR-3 FOR PART NUMBER	HIGH VOLT BX
CSVS-1	CONTACTOR-VARI SPD 4231 & 4244	W6WESSVP	09MC04C337	18A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSVS-2	CONTACTOR-VARI SPD 6044SP2/3	W6WESSVP	09MC04G337	37A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSVS-3	CONTACTOR-VARI SPD 7244SP2/3	W6WESSVP	09MC04J337	44A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSWA	CONTACTOR-REVERSING WASH CCW	W6WESSMCB	MESSAGE EW	SEE CSWC-1-2 OR-3 FOR PART NUMBER	HIGH VOLT BX
CSWC	CONTACTOR-REVERSING WASH CW	W6WESSMCB	MESSAGE EW	SEE CSWC-1-2 OR-3 FOR PART NUMBER	HIGH VOLT BX
CSWC-1	CONTACTOR-WASH MTR 4231&4244SP2/3	W6WESSMCB	09MR04C337	18A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSWC-2	CONTACTOR-WASH MTR 6044SP2/3	W6WESSMCB	09MR04G337	38A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSWC-3	CONTACTOR-WASH MTR 7244SP2/3	W6WESSMCB	09MR04J337	44A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
CSW2L	CONTACTOR-2 SPD WASH LOW	W6WESSMCB	MESSAGE EW	SEE CSW2N1, 2 OR 3 FOR PART NUMBER	HIGH VOLT BX
CSW2N	CONTACTOR-2 SPD WASH NORMAL	W6WESSMCB	MESSAGE EW	SEE CSW2N1, 2 OR 3 FOR PART NUMBER	HIGH VOLT BX

COMPONENT PARTS LIST

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<u>COMPONENT</u>	<u>FUNCTION OF</u>	<u>WHERE TO FIND</u>	<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
<u>NUMBER</u>	<u>THIS COMPONENT</u>	<u>THIS COMPONENT</u>			
CSW2N1	CONTACTOR-LO SPD WASH 4231&4244SP2/3	W6WESSMCB	09MR04C337	18A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSW2N2	CONTACTOR-LO SPD WASH 6044SP2/3	W6WESSMCB	09MR04G337	38A 3P REV+2N/C 120V5/6 IEC	HIGH VOLT BX
CSW2N3	CONTACTOR-LO SPD WASH 7244SP2/3	W6WESSMCB	09MR04J337	44A 3P CONT.NR 120V5/6 IEC	HIGH VOLT BX
EB	>>BUZZER OR AUDIBLE SIGNAL				
EBPCC	BUZZER-CLEAN SIDE SIGNAL AUDIBLE	W6WESSDB	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	CLN SIDESWPL
EBSG	BUZZER-SIGNAL AUDIBLE	W6WESS+B	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	SWITCH PANEL
ED	>>DISPLAY-ELECTRONIC				
EDM	DISPLAY-MICROPROCESSOR	W6WESSDS	08BSEVFD1T	BD VFD DISPLAY BUF->TESTED	SWITCH PANEL
EDP	>>PRINTER-ELECTRONIC				
EDPM	PRINTER-MICROPROCESSOR	W6WESSPIA	08MPSEREPN	PRINTER - EPSON LX300	REMOTE MOUNT
EF	>>FUSE OR FUSE HOLDER				
EF1	FUSE-PRIMARY INCOMING VOLTAGE	W6WESSPSB	09FF005AWN	BUSE BUSS KTK 5AMP 600V=HPS HOLDER	HIGH VOLT BX
EF2	FUSE-PRIMARY INCOMING VOLTAGE	W6WESSPSB	09FF005AWN	BUSE BUSS KTK 5AMP 600V=HPS HOLDER	HIGH VOLT BX
EF1	FUSE-WASH MOTOR	W6WESSMTA	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
EF16X	FUSE-AUTOSPOT CLUTCH X-BUS	W6WESSMCB	09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	AUTOSPOT BOX
EF16Y	FUSE-AUTOSPOT CLUTCH Y-BUS	W6WESSMCB	09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	AUTOSPOT BOX
EF2	FUSE-LO EXTRACT MOTOR	W6WESSMTA	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
EF3	FUSE-DRAIN MOTOR	W6WESSMTA	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
EF37	FUSE-120VAC CONTROL CIRCUIT	W6WESSPSB	09FF006AMA	FUSE BK/ABC 6 AMP 250V BUSS	HIGH VOLT BX
EF4	FUSE-DRAIN MOTOR	W6WESSMTA	MESSAGE SN	SEE SPECIFIC MACHINE + NAMEPLATE	HIGH VOLT BX
EL	>>LIGHT-PILOT OR INDICATOR				
ELASC	LIGHT-AUTOSPOT STOP CLEAN SIDE	W6WESSASB	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CLN SIDE SWPL
ELASS	LIGHT-AUTOSPOT STOP SOIL SIDE	W6WESSASB	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	SWITCH PANEL
ELPCG	LIGHT-CLEAN SIDE HAS CONTROL	W6WESSCSB	09J060G37	LAMP 1/2" GRN 125V IDI 1052QC3	CLN SIDE SWPL
ELPCR	LIGHT-SOIL SIDE HAS CONTROL	W6WESSCSB	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	CLN SIDE SWPL
ELPSG	LIGHT -SOIL SIDE HAS CONTROL	W6WESSCSB	09J060R37	LAMP 1/2" RED 125V IDI 1050QC1	SWITCH PANEL
ELPSR	LIGHT-SOIL SIDE NOT CONTROLLING	W6WESSCSB	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	SWITCH PANEL
ELSG	LIGHT SIGNAL VISUAL	W6WESS+B	09J060WH37	LAMP 1/2" WH 120 TAB IDI1050QC4	SWITCH PANEL
EM	>>ELECTROMAGNET AND SOLENOID				
EMAS	CLUTCH-AUTOSPOL	W6WESSMCB	54H164A	CLUTCH 12VDC MAPM02	DRIVE BASE
EMCF	FAN-INVERTER COOLING	W6WESSVP	13AF100A37	FAN 92CFM115V60 NEWARK #90F6921	VARI SPD BOX
EMSPC	SWITCH-EMERGENCY STOP CLEAN SIDE	W6WESSDB	09N505	SW ASSY EMER STOP	CLN SIDE SWPL
EMSPS	SWITCH-EMERGENCY STOP SOIL SIDE	W6WESSDB	09N505	SW ASSY EMER STOP	SWITCH PANEL

COMPONENT PARTS LIST

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<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
ES	>>POWER SUPPLY-ELECTRONIC				
ESPS	POWER SUPPLY-120V TO +12,-12,+5V	W6WESSWB	08PSS3401T	30 WATT POWER SUPPLY TESTED	LOW VOLT BOX
ET	>>THERMAL OVERLOAD DEVICES				
ETDB	OVERLOAD-DYNAMIC BRAKE	W6WESSVP	09F024A	OL RELAY 1P SZ1 SQD #9065-C01	VARI SPD BOX
ETDR	OVERLOAD-DRAIN MOTOR	W6WESSMTA	MESSAGE EW	SEE ETDR-1, OR -2 FOR PART NUMBER	HIGH VOLT BX
ETDR-1	OVERLOAD-DRAIN MTR 42"x60">346V	W6WESSMTA	09FTC0037T	OL RELAY 3.7-12A AB#193-A3F1	HIGH VOLT BX
ETDR-2	OVERLOAD-DRAIN MTR 72" +60"<346V	W6WESSMTA	09FTC0120T	OL RELAY 12-32A AB #193-A3H1	HIGH VOLT BX
ETE1	OVERLOAD-LOW EXTRACT MOTOR	W6WESSMTA	MESSAGE EW	SEE ETE1-1, -2, OR -3 FOR PART NUMBER	HIGH VOLT BX
ETE1-1	OVERLOAD-LOW EXT 60"DIA	W6WESSMTA	09FTC0120T	OL RELAY 12-32A AB #193-A3H1	HIGH VOLT BX
ETE1-2	OVERLOAD-LOW EXT 72"<346V	W6WESSMTA	09FTC0230T	OL RELAY 23-75A AB#193-A3K3	HIGH VOLT BX
ETE1-3	OVERLOAD-LOW EXT 72">346V	W6WESSMTA	09FTC0140T	OL RELAY 14-45A AB#193-A3J2	HIGH VOLT BX
ETE2	OVERLOAD-HIGH EXTRACT MOTOR	W6WESSMTA	MESSAGE EW	SEE ETE2-1, -2, -3, OR -4 FOR PART NUMBER	HIGH VOLT BX
ETE2-1	OVERLOAD-LOW EXT 42">346V	W6WESSMTA	09FTC0037T	OL RELAY 3.7-12A AB#193-A3F1	HIGH VOLT BX
ETE2-2	OVERLOAD-LOW EXT 42"<346V	W6WESSMTA	09FTC0120T	OL RELAY 12-32A AB #193-A3H1	HIGH VOLT BX
ETE2-3	OVERLOAD-LOW EXT 60"+72" >346V	W6WESSMTA	09FTC0140T	OL RELAY 14-45A AB#193-A3J2	HIGH VOLT BX
ETE2-4	OVERLOAD-LOW EXT 60"+72" <346V	W6WESSMTA	09FTC0230T	OL RELAY 23-75A AB#193-A3K3	HIGH VOLT BX
ETWA	OVERLOAD-HIGH EXTRACT MOTOR	W6WESSMTA	MESSAGE EW	SEE ETWA-1, -2, OR -3 FOR PART NUMBER	HIGH VOLT BX
ETWA-1	OVERLOAD-LOW EXT 42">346V	W6WESSMTA	09FTC0037T	OL RELAY 3.7-12A AB#193-A3F1	HIGH VOLT BX
ETWA-2	OVERLOAD-LOW EXT 42"<346V+60", 72">346V	W6WESSMTA	09FTC0120T	OL RELAY 12-32A AB #193-A3H1	HIGH VOLT BX
ETWA-3	OVERLOAD-LOW EXT 60"+72" <346V	W6WESSMTA	09FTC0121T	OL RELAY 12-38A AB #193-A3H2	HIGH VOLT BX
EX	>>TRANSFORMERS				
EXAS	TRANSFORMER-120V-16VAC	W6WESSMCB	09UB100A16	XFMR 120/240VP EBR 12VDC 90 WATT	AUTOSPOT BOX
EX37	TRANSFORMER-INCOMING VOLT.120VAC	W6WESSPSB	MESSAGE EW	SEE EX37-1, -2, OR -3 FOR VOLTAGE	HIGH VOLT BX
EX37-1	TRANSFORMER-208/240>120VAC	W6WESSPSB	09U249AA37	XFMR 200-240V PRI/120VSEC/250VA	HIGH VOLT BX
EX37-2	TRANSFORMER-380/480>120VAC	W6WESSPSB	09U200AAB	XFMR 380-480V/240-120V-250VA	HIGH VOLT BX
EX37-3	TRANSFORMER-600->120VAC	W6WESSPSB	09U251AB37	XFMR 600V PRI/120VSC-250VA-3%REG	HIGH VOLT BX
EX96AH	TRANSFORMER-600V-480V 52-72"DIA	W6WESSMT6	09US050A96	XFMR 1PH 5KVA 240/280 X 120/240	600V BOX
EX96AL	TRANSFORMER-600V-480V 42-48"DIA	W6WESSMT6	09US030A96	XFMR 1PH 3KVA 240/480X120/240	600V BOX
EX96BH	TRANSFORMER-600V-480V 52-72"DIA	W6WESSMT6	09US050A96	XFMR 1PH 5KVA 240/280 X 120/240	600V BOX
EX96BL	TRANSFORMER-600V-480V 42-48"DIA	W6WESSMT6	09US030A96	XFMR 1PH 3KVA 240/480X120/240	600V BOX
KB	>>KEYBOARD-ELECTRONIC				
KBM	KEYPAD-MICROPROCESSOR	W6WESSKP	08ND5X6WE	KEYPAD:5X6MATRIX WASHER-EXT	SWITCH PANEL
MV	>>MOTOR POWER INVERTERS				

COMPONENT PARTS LIST

<u>COMPONENT</u>	<u>FUNCTION OF</u>	<u>WHERE TO FIND</u>	<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
<u>NUMBER</u>	<u>THIS COMPONENT</u>	<u>THIS COMPONENT</u>			
MVDBR	RESISTOR-DYNAMIC BRAKE	W6WESSVP	09MV100RES	RESIST 100 OHM 225WATT ADJ	VARI SPD BOX
MWV	INVERTER-WASH MOTOR	W6W2ESSVP	MESSAGE EW	SEE MVWAH OR MVWAL FOR VOLTAGE	VARI SPD BOX
MWV-1	INVERTER-WASH MTT 4231&4244 LO VL	W6WESSVP	09MV027A96	VARSPPEED 27 AMPS 460V	VARI SPD BOX
MWV-2	INVERTER-WASH MTT 4231&4244 HI VL	W6WESSVP	09MV054A74	VARSPPEED 54 AMPS 230V	VARI SPD BOX
MWV-3	INVERTER-WASH MTR 6044&7244 LO VL	W6WESSVP	09MV027A96	VARSPPEED 27 AMPS 460V	VARI SPD BOX
MWV-4	INVERTER-WASH MTR 6044&7244 HI VL	W6WESSVP	09MV054A74	VARSPPEED 54 AMPS 230V	VARI SPD BOX
SC	>>SWITCH-AUTOSPOT				
SCAS1	SWITCH-AUTOSPOT ENABLE SOIL SIDE	W6WESSASB	09R015	ACTUATOR,MICROSW #JV-9 (CLASS 004)	ASPTOT SENSOR
SCAS2	SWITCH-ASPTOT SELECT 2ND POCK SOIL	W6WESSASB	09R015	ACTUATOR,MICROSW #JV-9 (CLASS 004)	ASPTOT SENSOR
SCAS3	SWITCH-ASPTOT SELECT 3ND POCK SOIL	W6WESSASB	09R015	ACTUATOR,MICROSW #JV-9 (CLASS 004)	ASPTOT SENSOR
SCAS4	SWITCH-AUTOSPOT ENABLE CLEAN SIDE	W6WESSASB	09R015	ACTUATOR,MICROSW #JV-9 (CLASS 004)	ASPTOT SENSOR
SCAS5	SWITCH-ASPTOT SELECT 2ND POCK CLEAN	W6WESSASB	09R014A	MINI-SW SPDT STAKON #V15G1C26K	ASPTOT SENSOR
SCAS6	SWITCH-ASPTOT SELECT 3RD POCK CLEAN	W6WESSASB	09R014A	MINI-SW SPDT STAKON #V15G1C26K	ASPTOT SENSOR
SH	>>SWITCH-HAND OPERATED				
SHASC	SWITCH-AUTOSPOT POCKET CLEAN SIDE	W6WESSACB	09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	SWPNL CLEAN
SHASS	SWITCH-AUTOSPOT POCKET SOIL SIDE	W6WESSASB	09N041R	ROTSW 2POLE 8POSIT 5A125V ULCSA	SWITCH PANEL
SHCCR	SWITCH-TRANSFER TO SOIL SIDE	W6WESSCSB	09N405PB11	SWASS PB8K1NO/1NC	SWPNL CLEAN
SHDOC	SWITCH-DOOR OPEN CLEAN SIDE	W6WESSDB	09N405PB11	SWASS PB8K1NO/1NC	SWPNL CLEAN
SHDOS	SWITCH-DOOR OPEN SOIL SIDE	W6WESSDB	09N405PB11	SWASS PB8K1NO/1NC	SWITCH PANEL
SHEAK	SWITCH-EXTRACT CONTROL (AMPSAVER)	W6WESSEAB	09N405M210	SWASS M2W 1NO	LOW VOLT BOX
SHMA	SWITCH-MASTER	W6WESSSPB	09N405M210	SWASS M2W 1NO	SWITCH PANEL
SHMD	SWITCH-MILDATA LOCAL/REMOTE	W6WESS1A	09N405M210	SWASS M2W 1NO	PROCESSOR BX
SHS	SWITCH-STOP SOIL SIDE	W6WESSDB	09N405PR01	SWASS PBRD 1NC	SWITCH PANEL
SHS+	SWITCH-START 3-WIRE	W6WESSS+B	09N405PG10	SWASS PBGN 1NO	SWITCH PANEL
SHS+C	SWITCH-INCH-AUTOSPOT CLEAN SIDE	W6WESSDB	09N405PG10	SWASS PBGN 1NO	SWPNL CLEAN
SHSG	SWITCH-SIGNAL CANCEL	W6WESS1A	09N405PY10	SWASS PB YELLOW 1NO	SWITCH PANEL
SHWJC	SWITCH-JOG CLEAN SIDE	W6WESSACB	09N405M211	SWASS M2W 1NO+1NC	SWPNL CLEAN
SHWJS	SWITCH-JOG SOIL SIDE	W6WESSASB	09N405M211	SWASS M2W 1NO+1NC	SWITCH PANEL
SK	>>SWITCH-KEYLOCK				
SKPR	SWITCH-RUN/PROGRAM (KEY OP)	W6WESS1A	09N127C	KEYSW SPST 7A120VAC SCREW TERM	SWITCH PANEL
SM	>>SWITCH-MECHANICAL OPERATED				
SMCD2	SWITCH-SECONDARY DOOR -CLEAN SIDE	W6WESSS+B	09RM01212S	CAPSW 12FT 180DEG ROLLER SILVER	CLN DOOR HING
SMERB	SWITCH-EXCURSION	W6WESSS+B	09R008A	MICSW SPDT PAINTED BZE6-RN 01	MACH HOUSE

COMPONENT PARTS LIST

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<u>COMPONENT</u>	<u>FUNCTION OF</u>	<u>WHERE TO FIND</u>	<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
<u>NUMBER</u>	<u>THIS COMPONENT</u>	<u>THIS COMPONENT</u>			
SMPLC	SWITCH-DOOR CLOSED CLEAN SIDE	W6WESSDB	09R012	MICSW SPDT PAINTED BZE6-RN 01	CLN SIDE DOOR
SMPLS	SWITCH-DOOR CLOSED SOIL SIDE	W6WESSDB	09R012	MICSW SPDT PAINTED BZE6-RN 01	SOIL SIDE DR
SMSD2	SWITCH-SECONDARY DOOR SW. SOIL	W6WESSS+B	09RM01212S	CAPSW 12FT 180DEG ROLLER SILVER	SOILDOOR HING
SMSP	SWITCH-SPEED IS SLOW	W6WESSSPB	SAE03-088	ASSY=CENSW + MOUNTBKT 42	MOTOR DRIVE
SMWVB	SWITCH-MACHINE VIBRATION	W6WESSS+B	09R020	SWITCH NC VIBR #WZ-2RW84429-P52	HIGH VOLT BX
SP	>>SWITCH-PRESSURE OPERATED				
SPBR	PRESSURE SW-BRAKE	W6WESSI1A	09N082A	PRESSW NASON CLOSE @ 62 LB.	AIR VALVE BX
SPB2R	PRESSURE SW-2ND BRAKE	W6WESSS+B	09N082A	PRESSW NASON CLOSE @ 62 LB.	AIR VALVE BX
SPLL	PRESSURE SW-LOWER THAN LOW LEVEL	W6WESSI1A	09N071	PRESS SWITCH 10"WC EATON738-718	LOW VOLT BOX
SPLL*	PRESSURE SW-LOWER THAN LOW 42"DIA	W6WESSI1A	09N070	PRESS SWITCH 7"WC EATON 738-717	LOW VOLT BOX
SPLL1	PRESSURE SW-LOW LEVEL	W6WESSI1A	09N069	PRESS SWITCH 4"WC EATON738-719	LOW VOLT BOX
SPLL3	PRESSURE SW-HIGH LEVEL	W6WESSI1A	09N071	PRESS SWITCH 10"WC EATON738-718	LOW VOLT BOX
VE	>>VALVE-ELECTRIC OPERATED				
VEAS	VALVE-AUTOSPOT SW ENGAGE	W6WESSASB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEB2R	VALVE-2ND BRAKE	W6WESSSPB	96R302A37	1/8" AIR PILOT 3WANO 120V50/60C	AIR VALVE BX
VECFM	VALVE-FLUSH MANIFOLD	W6WESSCXA	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	SUPPLY VLVST
VEC01	VALVE-CHEMICAL #1 FLUSH	W6WESSCFB	96TCC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC02	VALVE-CHEMICAL #2 FLUSH	W6WESSCFB	96TCC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC03	VALVE-CHEMICAL #3 FLUSH	W6WESSCFB	96TCC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC04	VALVE-CHEMICAL #4 FLUSH	W6WESSCFB	96TCC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC05	VALVE-CHEMICAL #5 FLUSH	W6WESSCFB	96TCC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	SUPPLY INJEC
VEC06	VALVE-CHEMICAL #6	W6WESSCXA	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	INTERPRET BX
VEC07	VALVE-CHEMICAL #7	W6WESSCXA	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	INTERPRET BX
VEC08	VALVE-CHEMICAL #8	W6WESSCXA	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	INTERPRET BX
VEC09	VALVE-CHEMICAL #9	W6WESSCXA	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	INTERPRET BX
VEC10	VALVE-CHEMICAL #10	W6WESSCXA	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	INTERPRET BX
VEC11	VALVE-CHEMICAL #11	W6WESSCXA	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	INTERPRET BX
VEC12	VALVE-CHEMICAL #12	W6WESSCXA	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	INTERPRET BX
VEC13	VALVE-CHEMICAL #13	W6WESSCXA	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	INTERPRET BX
VEC14	VALVE-CHEMICAL #14	W6WESSCXA	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	INTERPRET BX
VEC15	VALVE-CHEMICAL #15	W6WESSCXA	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	INTERPRET BX
VEDRR	VALVE-DRAIN TO REUSE	W6WESSEVB	96R302A37	1/8" AIR PILOT 3WANO 120V50/60C	AIR VALVE BX
VEDRS	VALVE-DRAIN TO SEWER	W6WESSEVB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX

COMPONENT PARTS LIST

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<u>COMPONENT</u>	<u>FUNCTION OF</u>	<u>WHERE TO FIND</u>	<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
<u>NUMBER</u>	<u>THIS COMPONENT</u>	<u>THIS COMPONENT</u>			
VEPCC	VALVE-DOOR SEAL CLEAN SIDE	W6WESSDB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEPLC	VALVE-DOOR LATCH CLEAN SIDE	W6WESSDB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEPLS	VALVE-DOOR LATCH SOIL SIDE	W6WESSDB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEPPI	VALVE-INFLATE DOOR SEAL	W6WESSS+B	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VESTM	VALVE-STEAM	W6WESSEVB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VETCW-1	VALVE-COOLDOWN 60" AND 72"	W6WESSEVB	96P151A37	1+1/4" VAL 110V HAYS 2110-60211S	WATER INLET
VETCW-2	VALVE-COOLDOWN 42" ONLY	W6WESSEVB	96P053A37	3/4" VAL 110V HAYS #2110-60211S	WATER INLET
VEWBR	VALVE-BRAKE	W6WESSEVB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWBRA	VALVE-BRAKE FOR 72" ONLY	W6WESSEVB	96TBO3BA37	1/4" N/O 3WAY 120V50/60C	AIR VALVE BX
VEWCL	VALVE-AIR CLUTCH 42" DIA	W6WESSSPB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWCL	VALVE-AIR CLUTCH 60"& 72"DIA	W6WESSSPB	96TBC3BA37	1/4" N/C 3WAY 120V50/60C VALVE	AIR VALVE BX
VEWPD	VALVE-PUSH DOWN 42" DIA	W6WESSSPB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWPD*	VALVE-PUSH DOWN 60" & 72" DIA	W6WESSSPB	96TCC3AA37	3/8" N/C 3WAY 120V50/60C VALVE	AIR VALVE BX
VEWVC	VALVE-COLD WATER	W6WESSEVB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWVH	VALVE-HOT WATER	W6WESSEVB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWVX	VALVE-EXTRA WATER	W6WESSEVB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
WF	>>METER-WATER				
WFM	METER-WATER FLOW	W6WESSFS	30F515	FLOW SENSOR SIGNET P51530-P0	WATER INLET
ZF	>>RECTIFIERS				
ZFAS	RECTIFIER-AUTOSPOT	W6WESSMCB	09A020EBR	RECTIFIER (EBR) 15A/600PIV	AUTOSPOT BOX

PELLERIN MILNOR CORPORATION

LIMITED STANDARD WARRANTY

We warrant to the original purchaser that MILNOR machines including electronic hardware/software (hereafter referred to as "equipment"), will be free from defects in material and workmanship for a period of one year from the date of shipment from our factory with no operating hour limitation. This warranty is contingent upon the equipment being installed, operated and serviced as specified in the operating manual supplied with the equipment, and operated under normal conditions by competent operators.

Providing we receive written notification of a warranted defect within 30 days of its discovery, we will – at our option – repair or replace the defective part or parts, FOB our factory. We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is repaired or altered in any way without MILNOR's written consent.

Parts which require routine replacement due to normal wear – such as gaskets, contact points, brake and clutch linings and similar parts – are not covered by this warranty, nor are parts damaged by exposure to weather or to chemicals.

We reserve the right to make changes in the design and/or construction of our equipment (including purchased components) without obligation to change any equipment previously supplied.

ANY SALE OR FURNISHING OF ANY EQUIPMENT BY MILNOR IS MADE ONLY UPON THE EXPRESS UNDERSTANDING THAT MILNOR MAKES NO EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE. MILNOR WILL NOT BE RESPONSIBLE FOR ANY COSTS OR DAMAGES ACTUALLY INCURRED OR REQUIRED AS A RESULT OF: THE FAILURE OF ANY OTHER PERSON OR ENTITY TO PERFORM ITS RESPONSIBILITIES, FIRE OR OTHER HAZARD, ACCIDENT, IMPROPER STORAGE, MISUSE, NEGLIGENCE, POWER OR ENVIRONMENTAL CONTROL MALFUNCTIONS, DAMAGE FROM LIQUIDS, OR ANY OTHER CAUSE BEYOND THE NORMAL RANGE OF USE. REGARDLESS OF HOW CAUSED, IN NO EVENT SHALL MILNOR BE LIABLE FOR SPECIAL, INDIRECT, PUNITIVE, LIQUIDATED, OR CONSEQUENTIAL COSTS OR DAMAGES, OR ANY COSTS OR DAMAGES WHATSOEVER WHICH EXCEED THE PRICE PAID TO MILNOR FOR THE EQUIPMENT IT SELLS OR FURNISHES.

WE NEITHER ASSUME, NOR AUTHORIZE ANY EMPLOYEE OR OTHER PERSON TO ASSUME FOR US, ANY OTHER RESPONSIBILITY AND/OR LIABILITY IN CONNECTION WITH THE SALE OR FURNISHING OF OUR EQUIPMENT TO ANY BUYER.

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How to order repair parts

Repair parts may be ordered either from the authorized dealer who sold you this machine, or directly from the MILNOR factory. In most cases, your dealer will have these parts in stock.

When ordering parts, please be sure to give us the following information:

1. Model and serial number of the machine for which the parts are required
2. Part number
3. Name of the part
4. Quantity needed
5. Method of shipment desired
6. In correspondence regarding motors or electrical controls, please include all nameplate data, including wiring diagram number and the make or manufacturer of the motor or controls.

All parts will be shipped C.O.D. transportation charges collect only.

Please read this manual

It is strongly recommended that you read the installation and operating manual before attempting to install or operate your machine. We suggest that this manual be kept in your business office so that it will not become lost.

PELLERIN MILNOR CORPORATION

P.O. BOX 400, KENNER, LA., 70063-0400, U.S.A.

FAX: Administration 504/468-9307, Engineering 504/469-1849, Service 504/469-9777

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How to Use Milnor® Electrical Schematic Diagrams

Milnor® electrical schematic manuals contain a table of contents/component list and a set of schematic drawings. These documents are cross referenced and must be used together.

The table of contents/components list shows, for every component on every schematic in the manual, the component item number (explained in detail below), statement of function, parent schematic number, part number, description and electric box location. In older manuals, two component lists are provided: List 1 sorts the components by function, and List 2 by type of component. Newer schematic manuals include only the list sorted by component number.

The schematic drawings use symbols for each electromechanical component, and indicate the function of each. Integrated circuits are not shown, but the function of each microprocessor input and output is stated. Certain electrical components not pertinent to circuit logic, such as wire connectors, are not represented on the schematic.

Most machines require several schematics to describe the complete control system and all the options available on the included models. In most manuals there are some schematic pages that don't apply to your specific machine because certain options and configurations are mutually exclusive or are not necessary in all markets. You may find it helpful to mark or remove such pages. A schematic page that only applies to a subset of machines will normally state, in the title, which models and/or options it covers. Compare this with the nameplate on your machine and with your purchase records.

Each schematic is devoted to circuits with common functions (e.g., microprocessor inputs, motor contactors). Schematics appear in the manual in alphanumeric order.

1. Component Prefix Classifications and Descriptions

Component item numbers consist of up to six characters and appear as part of a component's symbol on the schematic. The first two characters indicate the general class of component, and the remaining characters are a mnemonic for the function. For example, "CD" is the code for all time delay relays, and "SR" stands for safety reset. Thus, CDSR is a time delay relay that serves as a safety reset.

The following are descriptions of electrical components used in Milnor® machines. Descriptions are in alphabetical order by the component class code (two character prefix).

Note 1: Some component class codes do not have a corresponding symbol, but are represented by a box and an accompanying note describing the component. Examples of such codes are BA (printed circuit board), ED (electronic display), and ES (electronic power supply).

BA=Printed Circuit Board—Insulating substrate on which a thin pattern of copper conductors has been formed to connect discrete electronic components also mounted on the board.

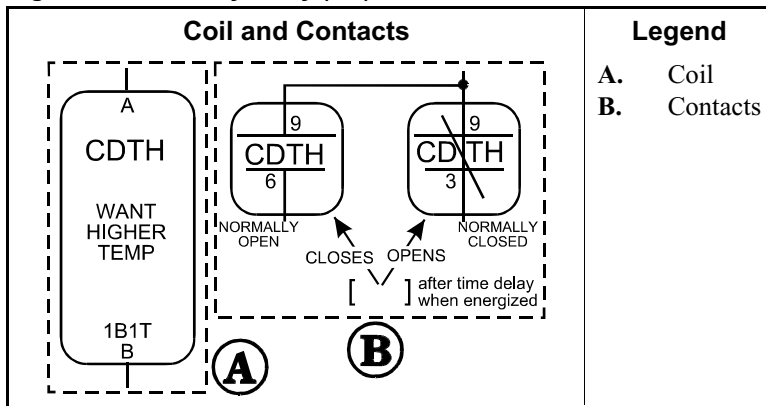
CB=Circuit Breaker (Figure 1)—Automatic switch that opens an electric circuit in abnormal current conditions (e.g., an overload).

Figure 1: Circuit Breaker (CB)



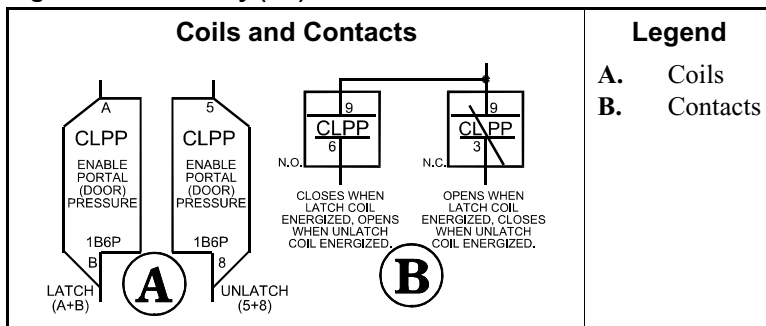
CD=Control, Time Delay Relay (Figure 2)—A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

Figure 2: Time Delay Relay (CD)



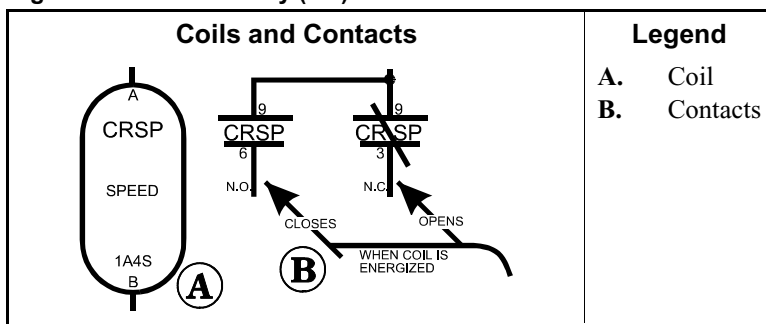
CL=Control, Latch Relay (Figure 3)—A relay which latches in an energized or set position when operated by one coil (the latch/set coil). The relay stays latched even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil (the unlatch/reset coil).

Figure 3: Latch Relay (CL)



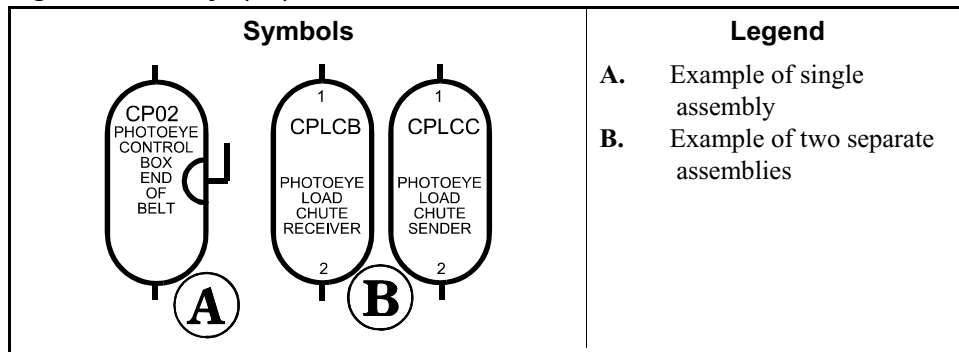
CR=Control, Relay (Figure 4)—A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

Figure 4: Standard Relay (CR)



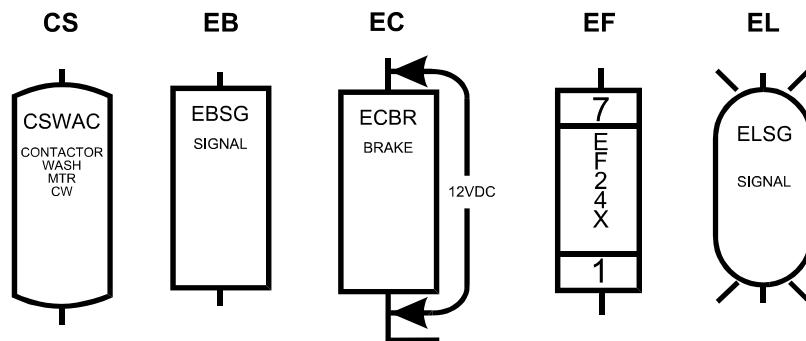
CP=Control, Photo-Eye (Figure 5)—Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a transmitter, receiver, and output module. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these components can be housed in two separate assemblies with the transmitter pointed directly at the receiver. The photo-eye can be set to turn on its output either when the light beam becomes blocked (dark operate) or when it becomes un-blocked (light operate).

Figure 5: Photo-eye (CP)



CS=Control, Contactor/Motor Starter (Figure 6)—A relay capable of handling heavier electrical loads, usually a motor.

Figure 6: Other Control Symbols



EB=Electric Buzzer (Figure 6)—An audible signaling device.

EC=Electric Clutch (Figure 6)—A clutch consists of a coil and a rotor. The rotor has two separate rotating plates. These plates are free to rotate independent of each other until the coil is energized. Once energized the two plates turn as one.

ED=Electronic Display—A visual presentation of data, such as an LCD (liquid crystal display), LED (light emitting diode) display, or VFD (vacuum florescent display).

EF=Electric Fuse (Figure 6)—A fuse is an over-current safety device with a circuit opening fusible member which is heated and severed by the passage of over-current through it.

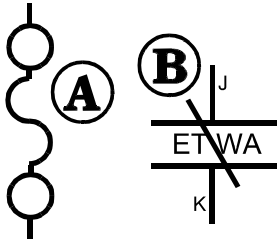
EL=Electric Light (Figure 6)—Indicator lights may be either incandescent or fluorescent.

EM=Electro Magnet Solenoid—A device consisting of a core surrounded by a wire coil through which an electric current is passed. While current is flowing, iron is attracted to the core (e.g., a pinch tube drain valve solenoid).

ES=Electronic Power Supply—A device that converts AC (alternating current) to filtered and regulated DC (direct current). The input voltage to the power supply is usually 120 or 240 VAC. The output is +5, +12, and -12 VDC.

ET=Thermal Overload (Figure 7)—A safety device designed to protect a motor. A thermal overload consists of an overload block, heaters, and an auxiliary contact. The auxiliary contact is normally installed in a safety (three-wire) circuit that stops power to the motor contactor coil when a motor overload occurs.

Figure 7: Thermal Overload (ET)

Schematic Symbol	Legend
	A. Heater (one per phase) B. Overload relay; contacts open if overload condition exists

EX=Electrical Transformer (Figure 8)—A device that transfers electrical energy from one isolated circuit to another, often raising or lowering the voltage in the process.

KB=Keyboard—Device similar to a typewriter for making entries to a computer.

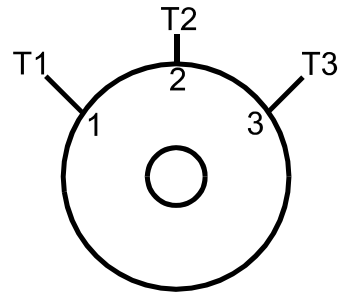
MN=Electronic Monitor (CRT)—A cathode ray tube used for visual presentation of data.

MR=Motors (Figure 9)—Electromechanical device that converts electrical energy into mechanical energy.

Figure 8: Transformer (EX)



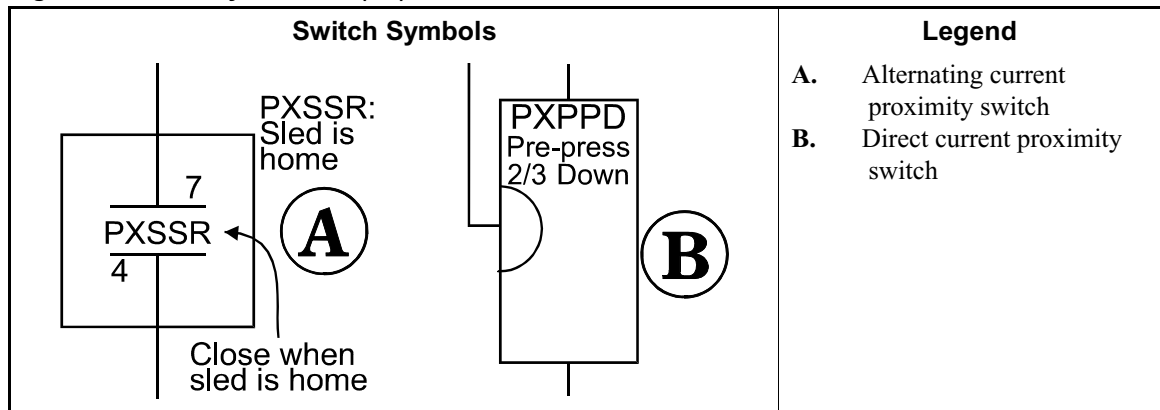
Figure 9: Electric Motor (MR)



MV=Motor (Variable Speed) Inverter—To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained. The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the proper voltage and frequency for the commanded speed.

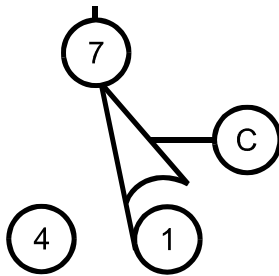
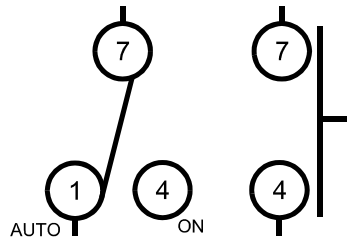
Note 2: Switch symbols used in the schematics and described below always depict the switch in its un-actuated state.

PX=Proximity Switch (Figure 10)—A device which reacts to the proximity of a target without physical contact or connection. The actuator or target causes a change in the inductance of the proximity switch which causes the switch to operate. Proximity switches can be two-wire (AC) or three-wire (DC) devices.

Figure 10: Proximity Switches (PX)

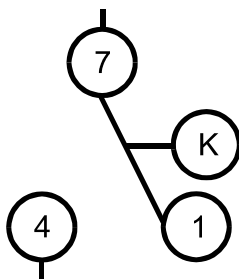
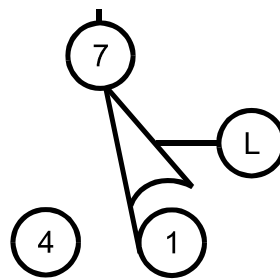
SC=Switch, Cam Operated (Figure 11)—A switch in which the electrical contacts are opened and/or closed by the mechanical action of a cam(s). Applications include 35-50 pound timer operated machines, Autospot, timer reversing motor assembly, and some balancing systems.

SH=Switch, Hand Operated (Figure 12)—A switch that is manually operated (e.g., *Start button*, *Master switch*, etc.).

Figure 11: Cam Switch (SC)**Figure 12: Hand Operated Switch (SH)**

SK=Switch, Key Lock (Figure 13)—A switch that requires a key to operate. This prevents unauthorized personnel from gaining access to certain functions (e.g., the *Program menu*).

SL=Switch, Level Operated (Figure 14)—A switch connected to a float that causes the switch to open and close as the level changes.

Figure 13: Key Switch (SK)**Figure 14: Level Switch (SL)**

SM=Switch, Mechanically Operated (Figure 15)—A switch that is mechanically operated by a part of or the motion of the machine (e.g., door closed switch, tilt limit switches, etc.)

SP=Switch, Pressure Operated (Figure 16)—A switch in which a diaphragm presses against a switch actuator.

Figure 15: Mechanical Switch (SM)

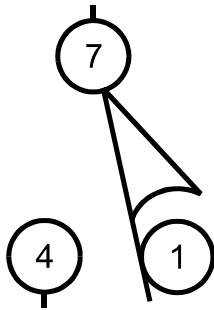
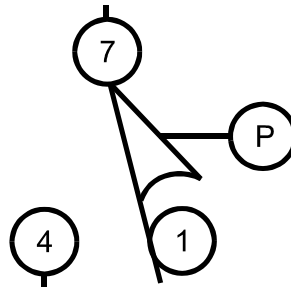


Figure 16: Pressure Switch (SP)



ST=Switch, Temperature Operated (Figure 17)—A switch that is actuated at a preset temperature (e.g., dryer safety probes) or has adjustable set points (e.g., Motometers or Combistats).

TB=Terminal Board (Figure 18)—A strip or block for attaching or terminating wires.

Figure 17: Temperature Switch (ST)

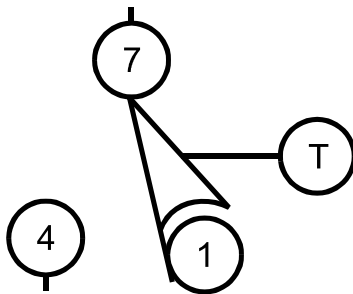
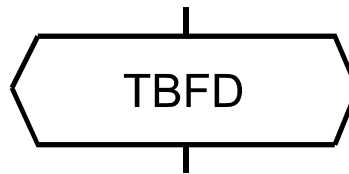
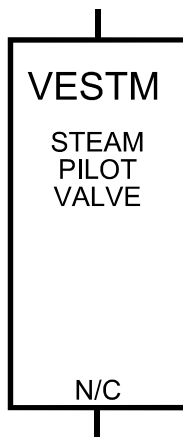


Figure 18: Terminal Board (TB)



VE=Valve, Electric Operated (Figure 19)—A valve operated by an electric coil to control the flow of fluid. The fluid can be air, water or hydraulic.

Figure 19: Electrically Operated Valve (VE)



ZF=Rectifier (Figure 20)—A solid state device that converts alternating current to direct current.

Figure 20: Bridge Rectifier (ZF)

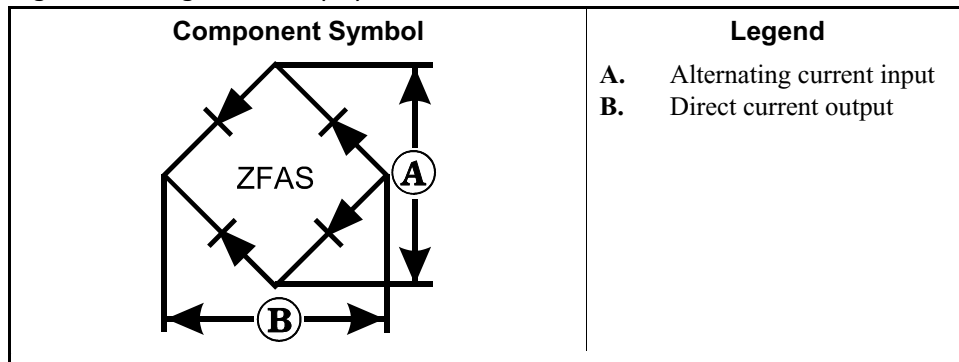
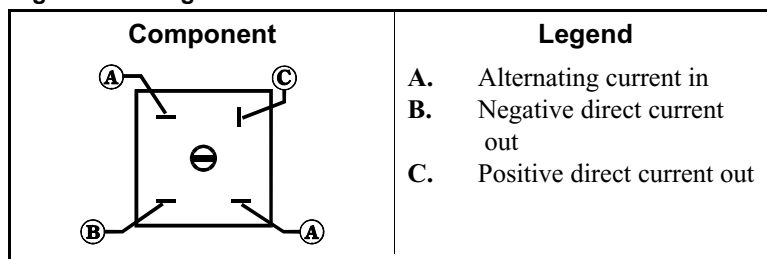


Figure 21: Bridge Rectifier



WC=Wiring Connector—A coupling device for joining two cables or connecting a cable to an electronic circuit or piece of equipment. Connectors are male or female, according to whether they plug into or receive the mating connector.

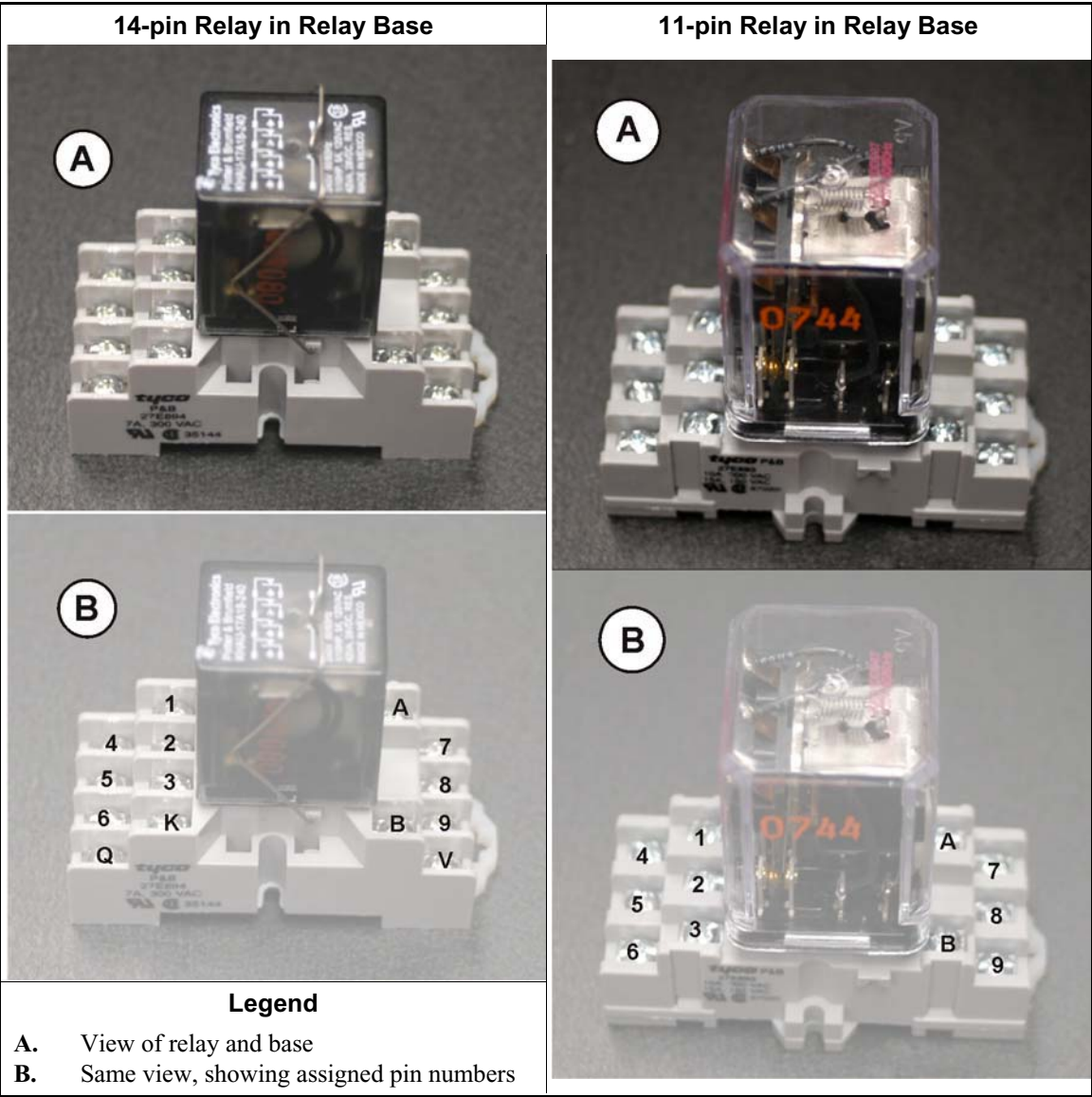
2. Component Terminal Numbering



CAUTION [1]: Risk of Mis-wiring—Due to electrical component manufacturing inconsistencies, the pin numbers imprinted on components such as connectors and relay bases used on Milnor machines often do not correspond to the pin numbers shown in the schematics.

- Ignore pin numbers imprinted on in-line connectors (e.g., Molex connectors) and relay bases.
- Use the pin identification illustrations herein to identify pins on these components.

Figure 22: Plug-in Relays



Note 3: Relay functional names ending with the letter "M" (e.g., CRxxM) are not discrete components but are a component of a printed circuit board. They are usually not individually replaceable.

Figure 23: AMP Connector Pin Locations

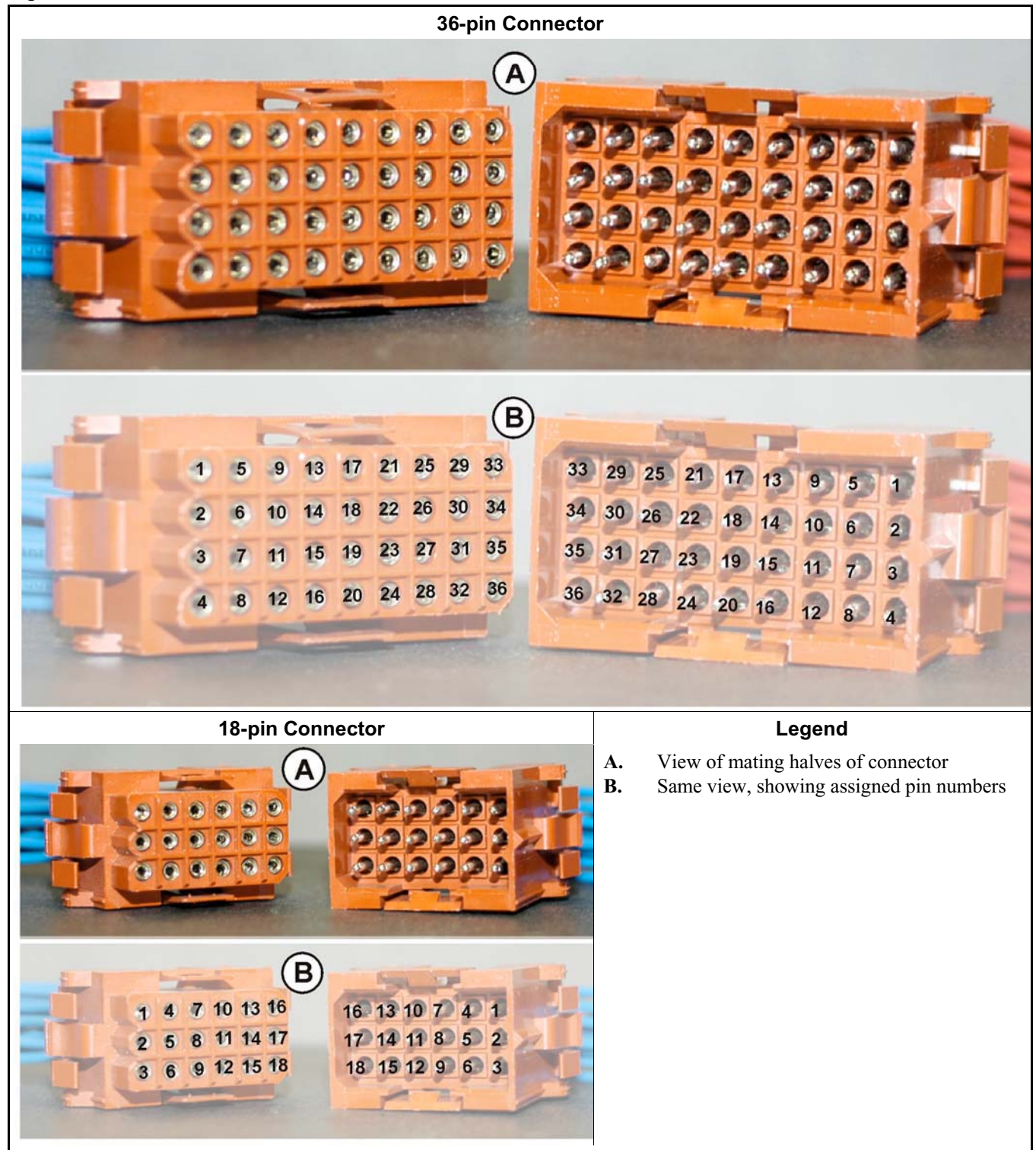


Figure 24: Molex Connector Pin Locations

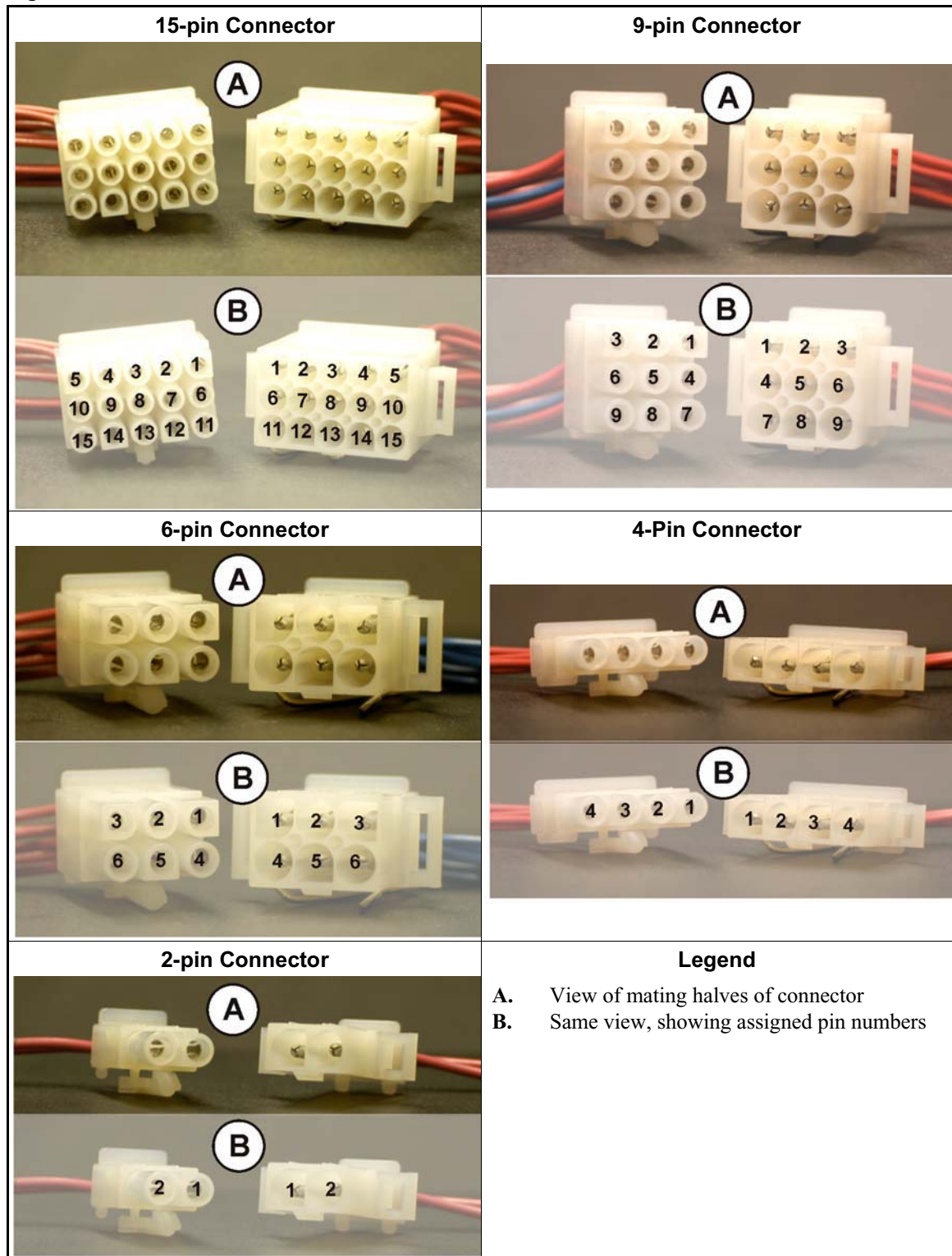


Figure 25: Pressure Switch

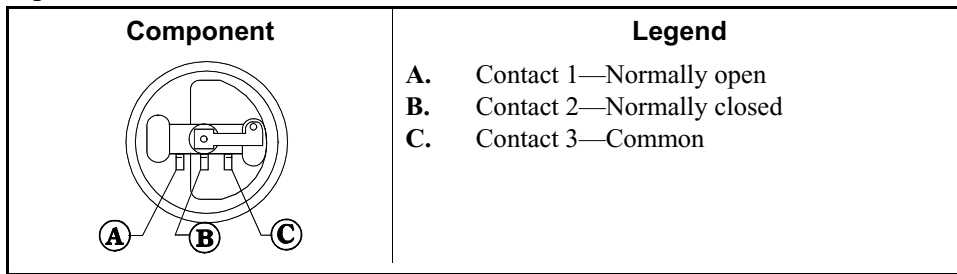


Figure 26: Toggle Switch

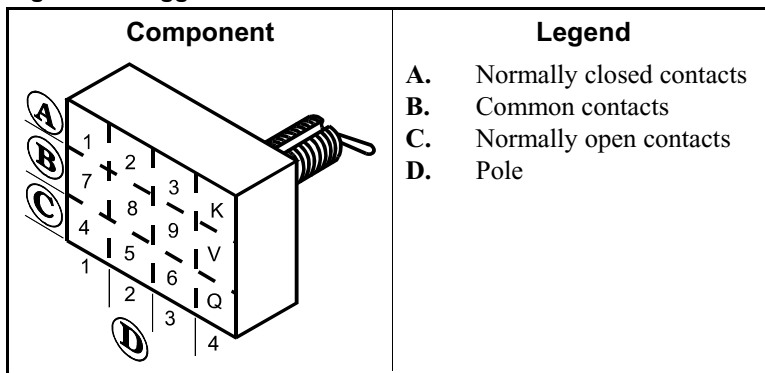
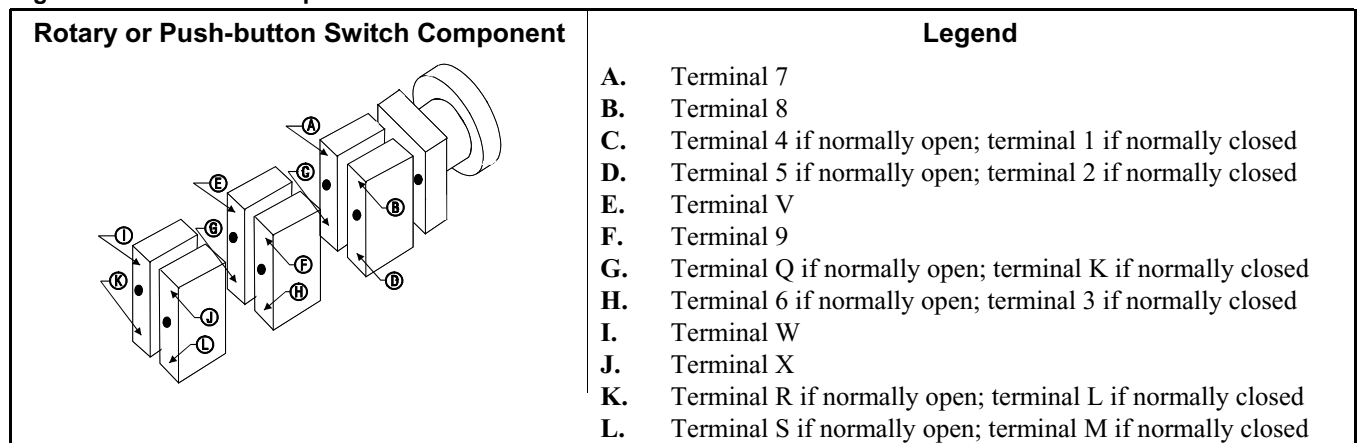


Figure 27: Switch with Replaceable Contact Blocks



3. Features of Milnor® Electrical Schematic Diagrams

Document BMP010012 (following this section) is a sample schematic, based on a schematic diagram for the Milnor® gas dryer. For the purposes of this exercise, the schematic is shown gray and explanations of the items on the schematic are shown black.

The item numbers below correspond to the circled item numbers shown on the drawing.

1. The first six characters of the drawing number (W6DRYG) indicate that this is a wiring diagram (W), identify the generation of controls (6), and identify the type of machine (DRYG=Gas Dryer). These characters appear in the drawing number of every schematic in the set.

The characters following the first six are unique to each drawing. The two characters identified as the page number are an abbreviation for the function performed by the depicted

circuitry (S+=three-wire circuit) and establish the order in which the schematic occurs in the manual (schematics are arranged in alpha-numeric order in the manual).

Whenever circuitry changes are significant enough to warrant publishing a new schematic drawing, the new drawing number will be the same as the old except for the major revision letter (A in the example).

2. Included in the drawing title are the class of control system, the title of this circuit, and the circuit voltage.
3. Line numbers are provided along the bottom edge of the drawing. These permit service personnel in the field and at the Milnor® factory to quickly relate circuit locations when discussing troubleshooting over the phone. Page and line numbers are referenced on the drawing as explained in items five and six below.
4. Relay contacts show the page and line number on which the relay coil may be found. This is the type of cross referencing most frequently used in troubleshooting.
5. Relay coils show the page and line number on which its associated contacts are located.
6. Relay contacts and relay coils show the physical location of the relay.
7. The designation MTA applies to electronic circuit board connections. Typically, a control system will contain several different types of circuit boards and one or more boards of each type. A numerical suffix identifies the board type and a numerical prefix identifies which one of several boards of a given type is being depicted. For example, the designation 1MTA5 identifies this as the first I/O board (8 output, 16 input board) in the control system. As shown on the drawing, a pin number follows the board number, separated by a dash. Thus, 1MTA5-9 is pin 9 on this board. The numerical designations for board types vary from one control system to another. Some of the board types commonly encountered on the Mark V and Mark VI washer-extractor control and their designations are as follows:
 - MTM1-MTM8 = Mother board
 - MTA1-MTA5 = 8 output, 16 input (8/16) boards
 - MTA11-MTA14 = 24 output boards
 - MTA30-MTA40 = processor boards
 - MTA41-MTA43 = digital to analog (D/A) boards
 - MTA51-MTA55 = analog to digital (A/D) boards
 - MTA81-MTA85 = balance A-D board

The complete listing of the boards utilized in a given control system can be found in the component list for that system.

8. Wire numbers, as described earlier in this section, are shown at appropriate locations on the schematic drawing.
9. Where diamond symbols appear at the end of a conductor, these are match points for continuing the schematic on another drawing. The page and line number that continues the circuit is printed adjacent to the diamond symbol. Where more than one match point appears on the referenced page, match diamonds containing corresponding letters.

— End of BIUUUK01 —

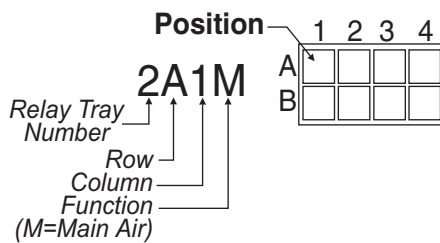
4

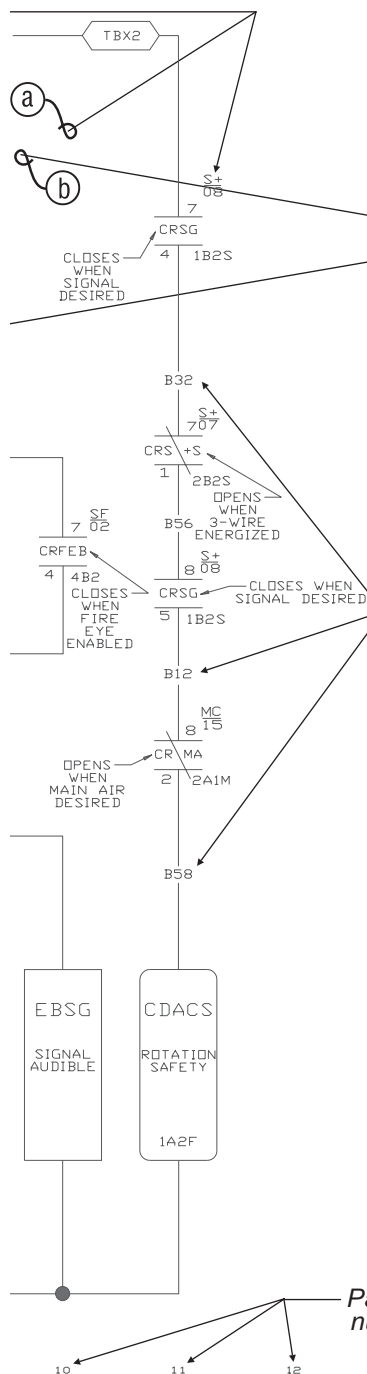
5

5

Contact not used—
Drawing and line where
contact is located

⑥





7 **1MTA5-9**

Mass termination assembly
Pin number
MTA designation on board
Board MTA group designation

An MTA is a connection on an electronic circuit board. The notes and the tag page locate the appropriate board.

8 **Wire identification marking.**
This designation is stamped on the wire every 6 inches and is used with the signal routing table.

Major revision (letter)

1 Page number (S+)

Machine type (Gas fired dryer)

6th generation of controls

W = Wiring

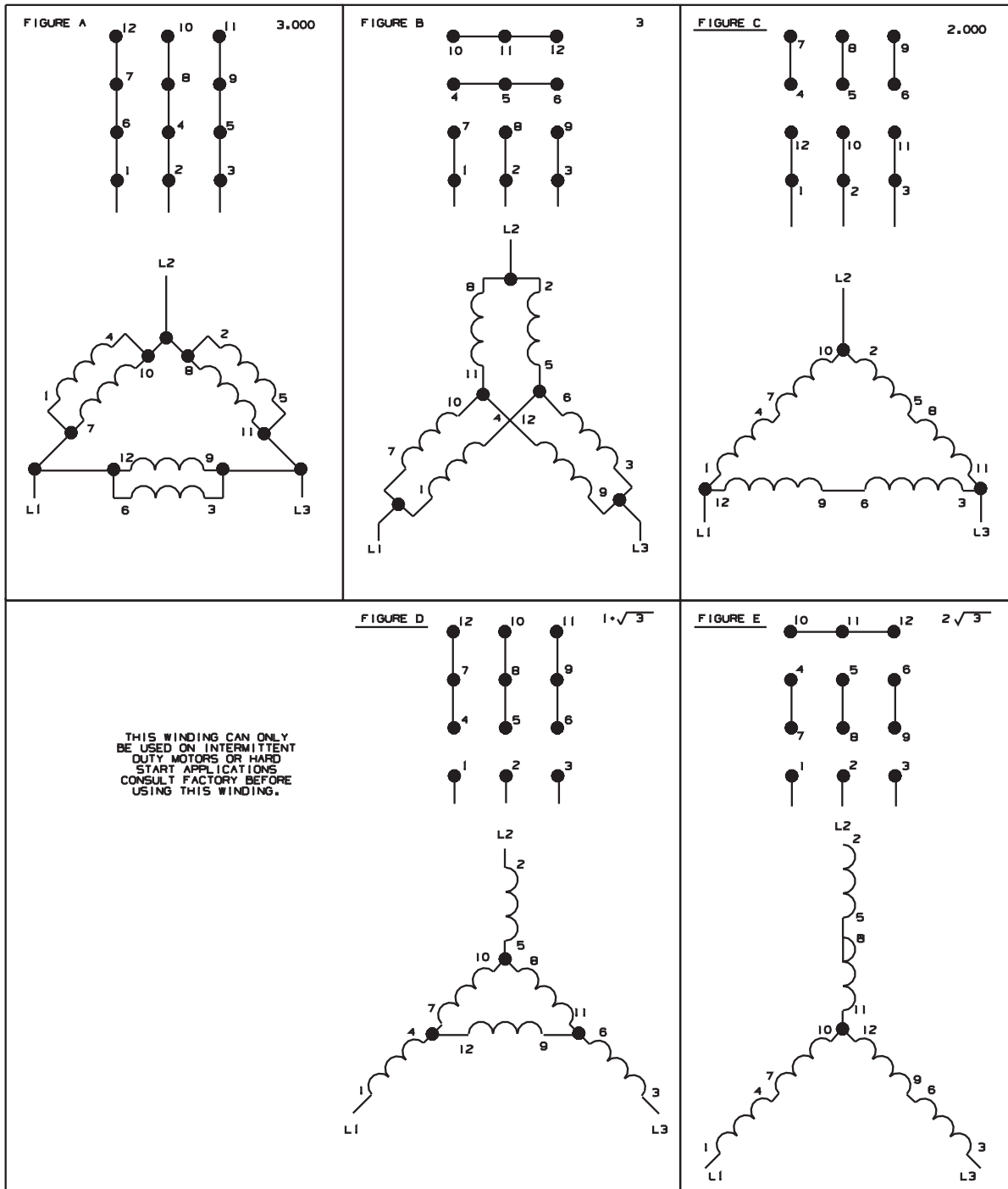
Class of control system

Title of this circuit
Voltage of this circuit

NOTES:

1. TBL IS LOCATED IN LEFT CONTROL BOX.
2. TBA IS LOCATED IN RIGHT CONTROL BOX.
3. TBX IS LOCATED IN LEFT CONTROL BOX.
4. 1MTA5 IS LOCATED ON BID1 (8 OUTPUT-16 INPUT BOARD).
5. REMOVE (J1) IF DRYER HAS VALVE SET SHUT OPTION.

FIGURE	ELECTRICAL VALUES	SUFFIXES							
		B		H		M		T	
		50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ
A	1,000	208	230			200	220	220	240
B	$\sqrt{3}$			208	240	346	380	380	
C	2,000	416	460	220	240	400	440	440	480
D	$1 + \sqrt{3}$						600		
E	$2\sqrt{3}$			380					



06

07

08

09

10

11

12

13

14

15

16

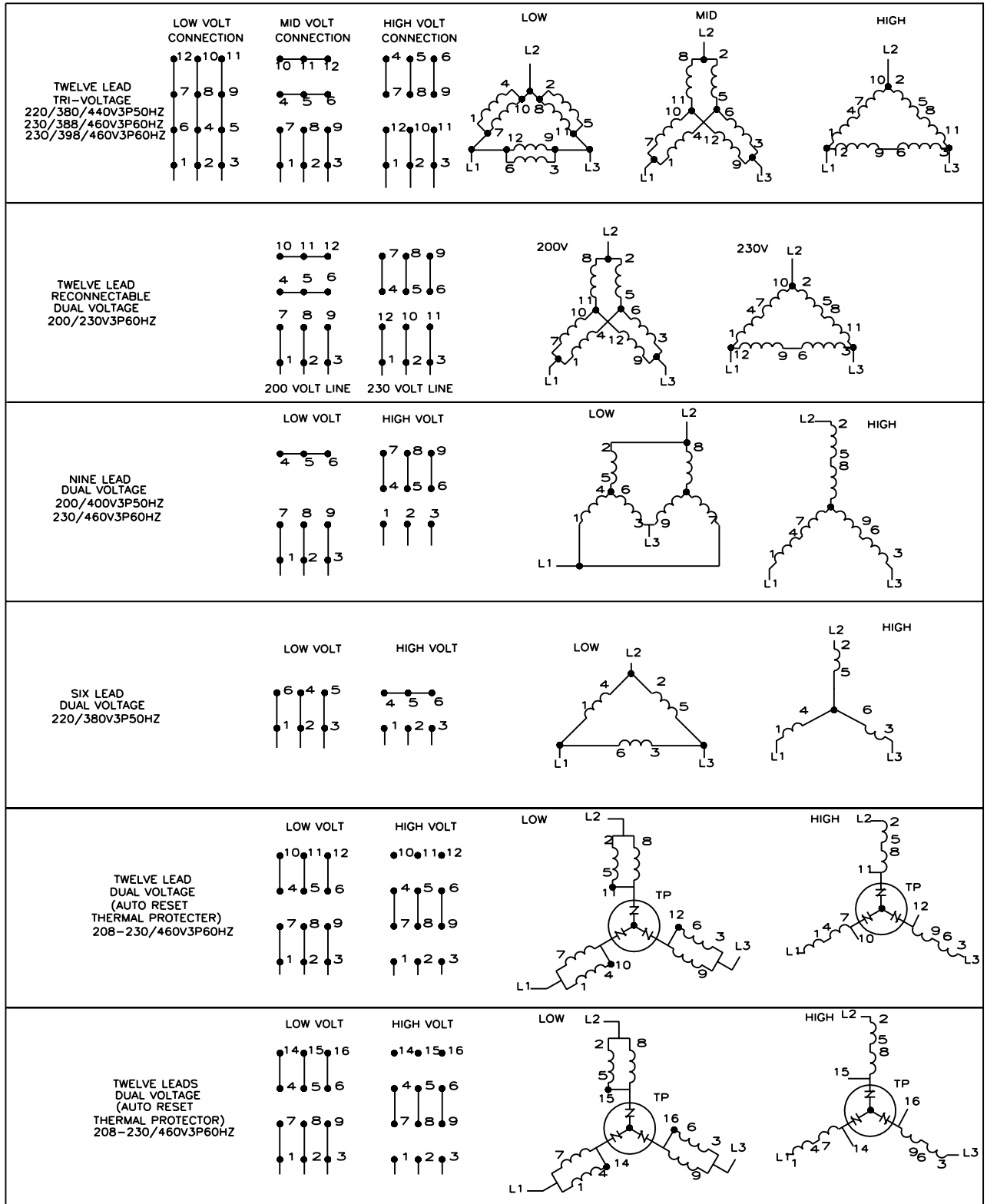
17

BMP850029

MOTOR CONNECTION DIAGRAMS

THREE PHASE SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS
(ONLY FOR MOTOR SUFFIXES LISTED)

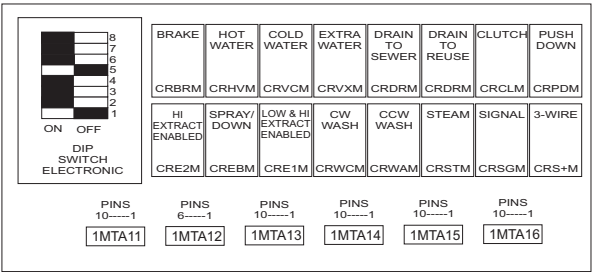
PELLERIN MILNOR CORPORATION



W80008

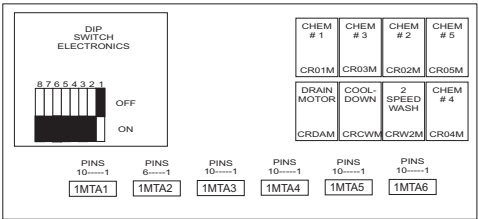
THREE PHASE
MOTOR CONNECTION DIAGRAMS
SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS
PELLERIN MILNOR CORPORATION

W80008
2001253A



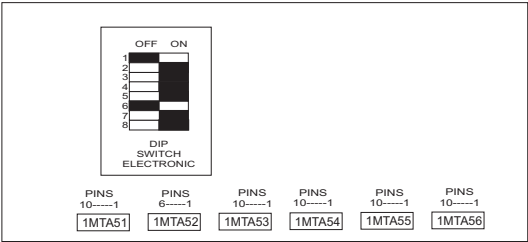
**MICRO 6 SYSTEMS
OPEN POCKET, DIVIDED
CYLINDER
STAPHGUARD OUTPUT BOARD #1**
PELLERIN MILNOR CORPORATION

B2TAG86013
99406G



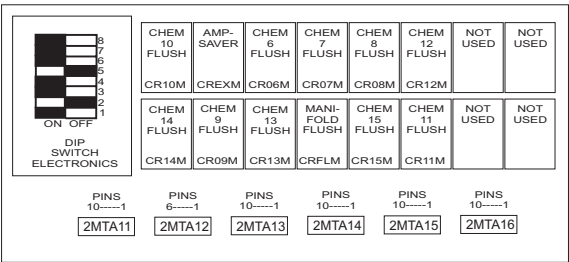
**MICRO 6 SYSTEMS
STAPHGUARD CONTROL
I/O BOARD # 1**
PELLERIN MILNOR CORPORATION

B2TAG99025
99406G



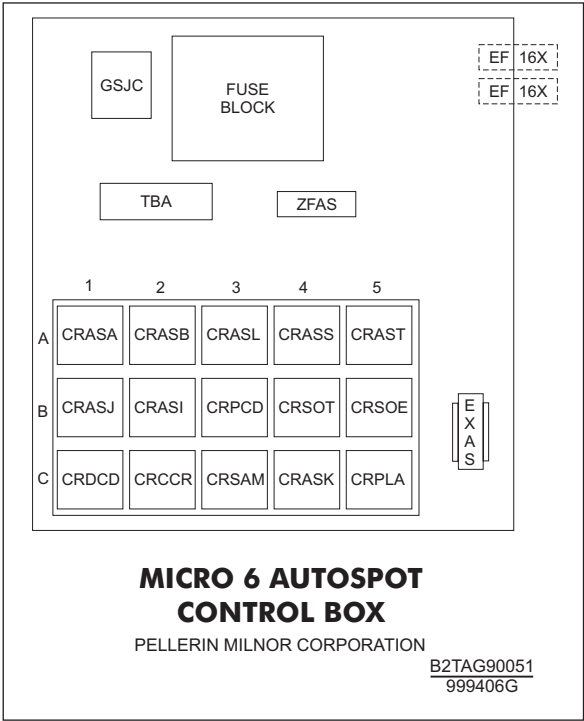
**MICRO 6 SYSTEMS
A/D BOARD #1**
PELLERIN MILNOR CORPORATION

B2TAG99026
99406G



**MICRO 6 SYSTEMS
OPEN POCKET, DIVIDED CYLINDER
STAPHGUARD OUTPUT # 2**
PELLERIN MILNOR CORPORATION

B2TAG96021
99406G



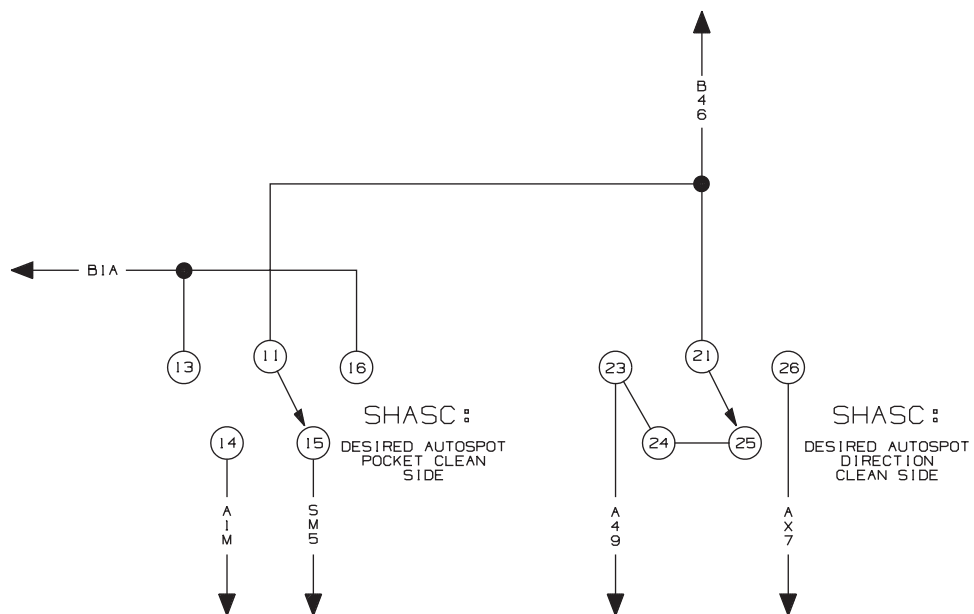
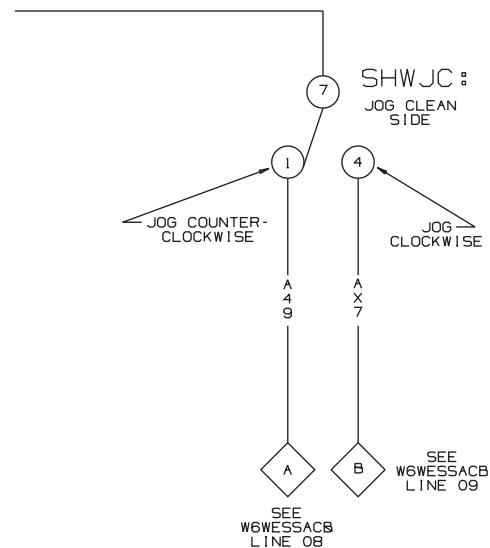
**MICRO 6 AUTOSPOT
CONTROL BOX**
PELLERIN MILNOR CORPORATION

B2TAG90051
999406G

W6WESSTAG
MICRO 6 SYSTEMS
SCHEMATIC: MACHINE TAGS
PELLERIN MILNOR CORPORATION

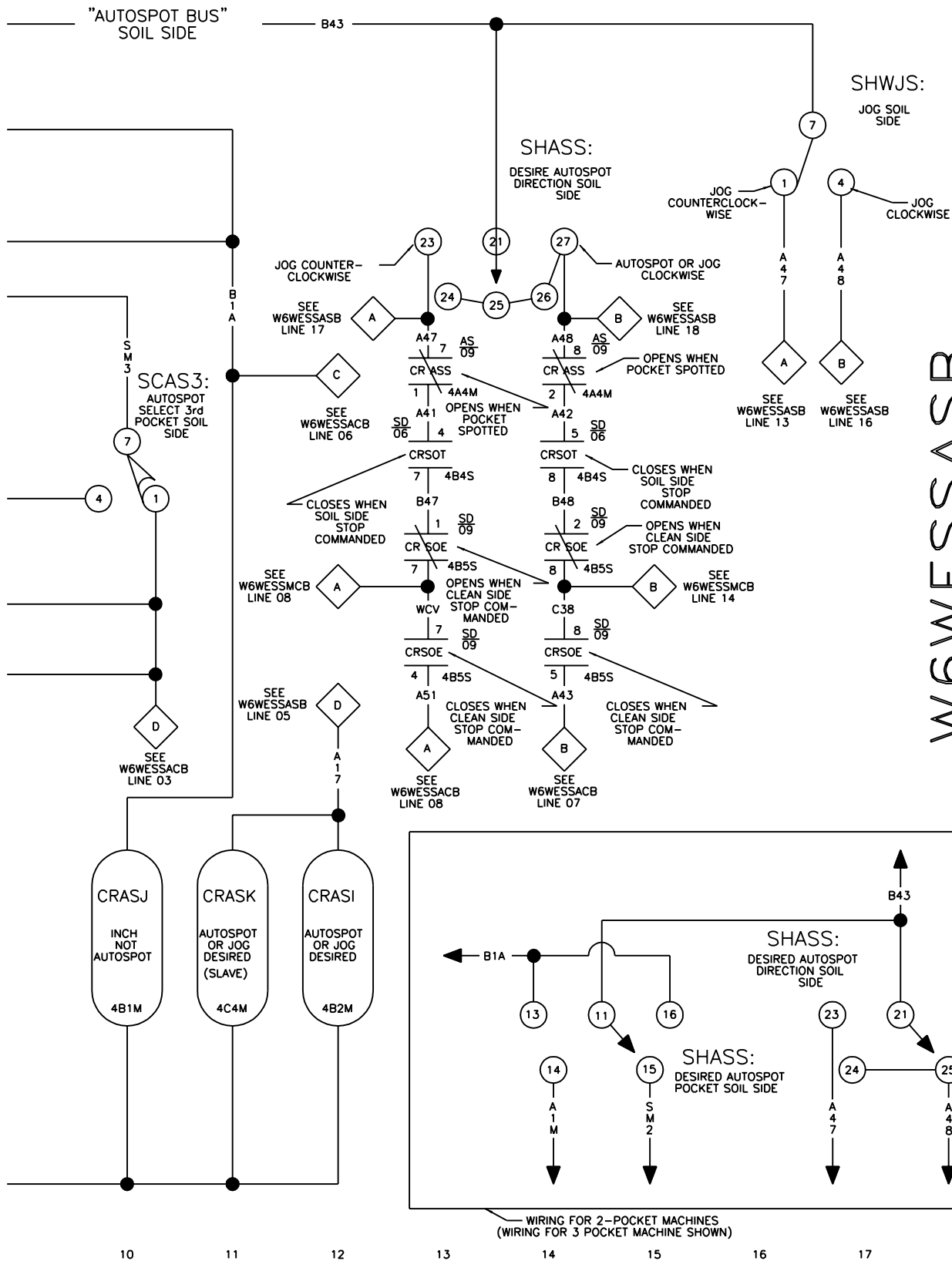
W6WESSTAG
99367B

W6WESSTAG
99367B



W6WESSACB
MICRO 6 SYSTEMS
(SERIAL CONTROLS)
SCHEMATIC: AUTOSPOT CLEAN SIDE
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

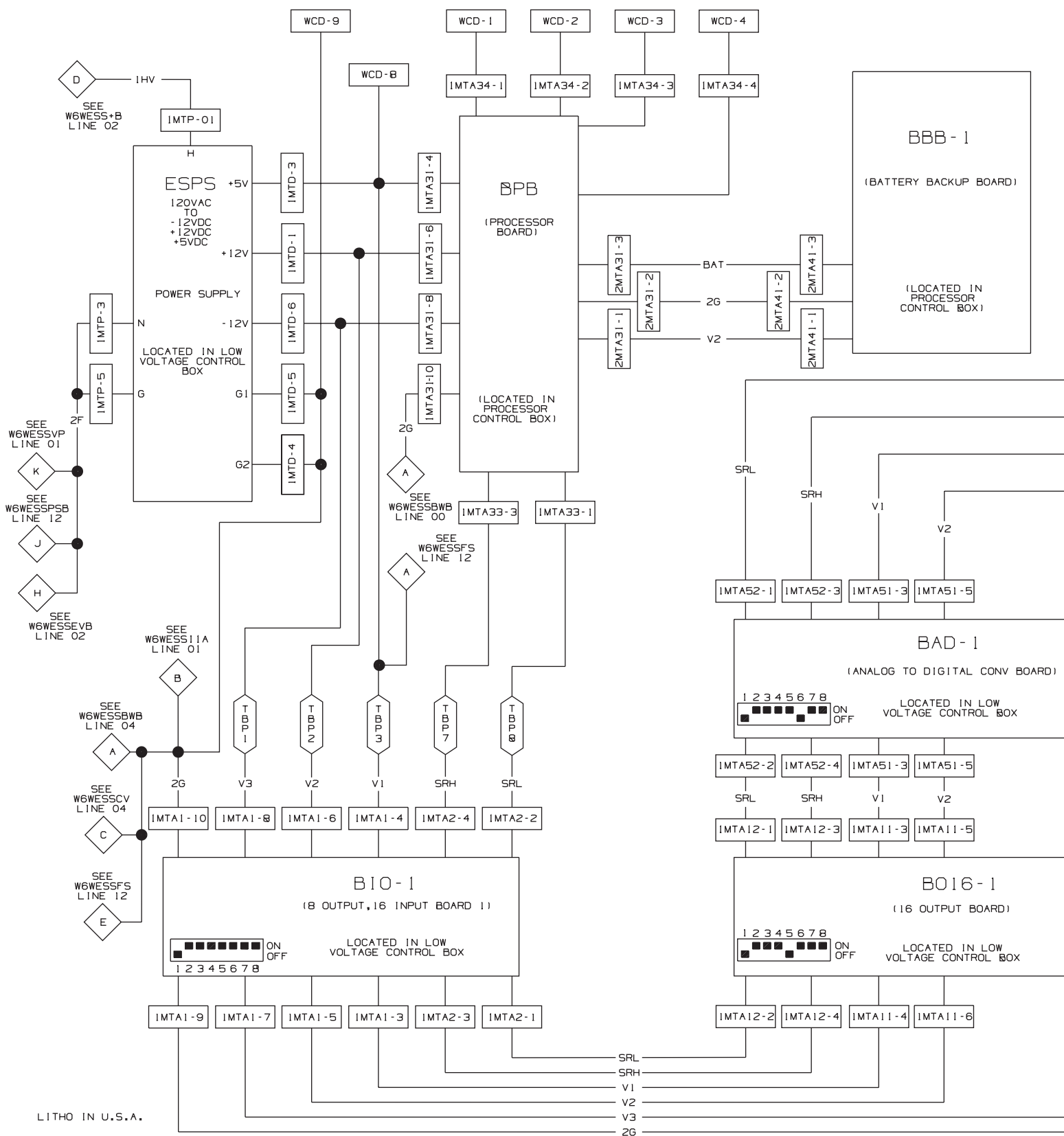




W6WESSASB

MICRO 6 SYSTEMS
(SERIAL CONTROLS)
SCHEMATIC: AUTOSPOT

110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

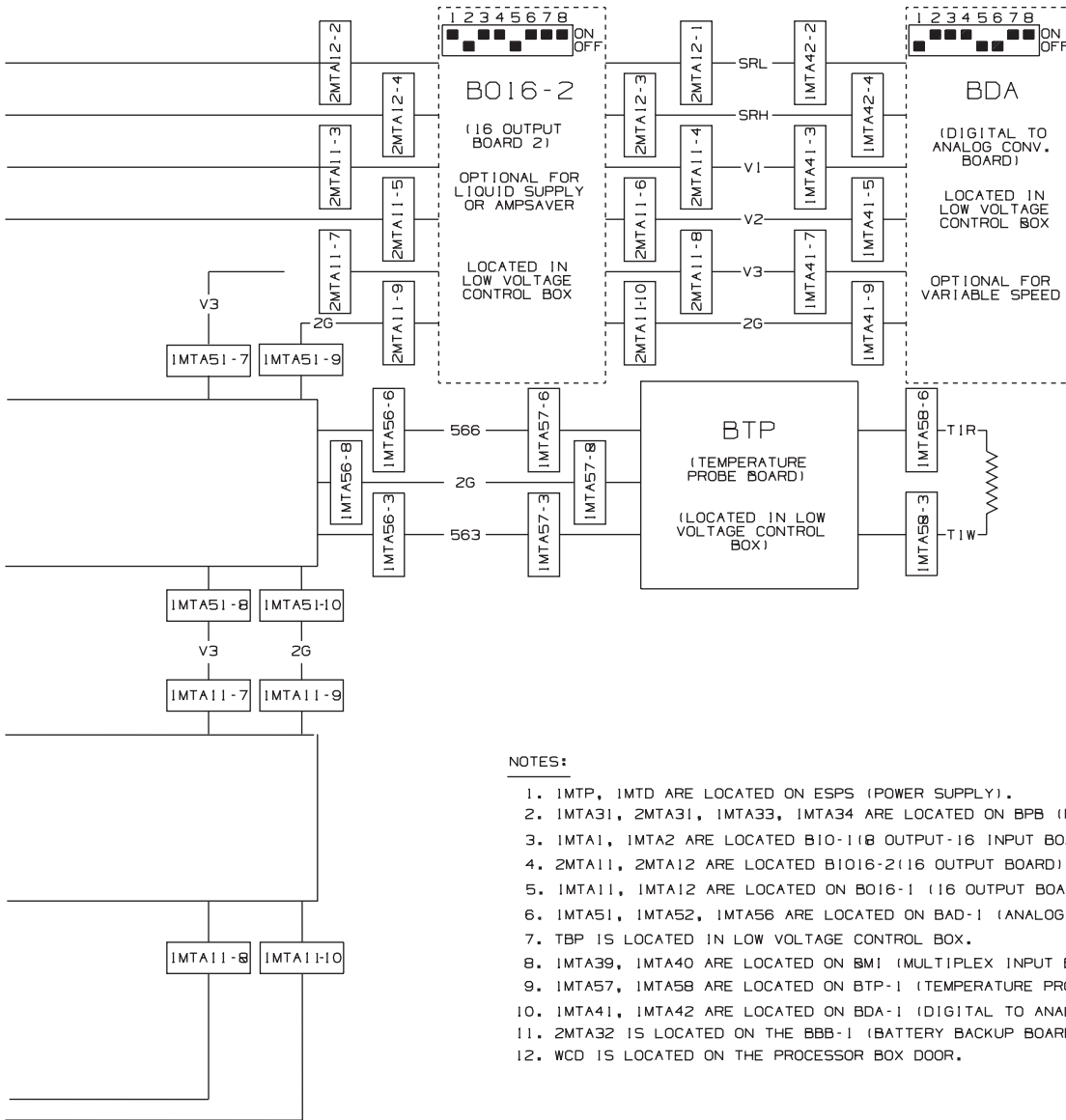


LITHO IN U.S.A.

00 01 02 03 04 05 06 07 08 09 10 11



WIRE NO.	VOLTAGE	WIRE COLOR
V1	+5VDC	BLUE
V2	+12VDC	BLUE/ORANGE
V3	-12VDC	BLUE/BLACK
2G	GROUND	BLUE/WHITE
SRL	SERIAL HIGH	BLUE/RED
SRL	SERIAL LOW	BLUE/BLACK
INPUTS	-	BLUE/BLACK
-	24VAC	BLUE/RED
-	120VAC	RED
2F	CONTROL GROUND	RED/WHITE
OUTPUTS	-	RED/BLACK



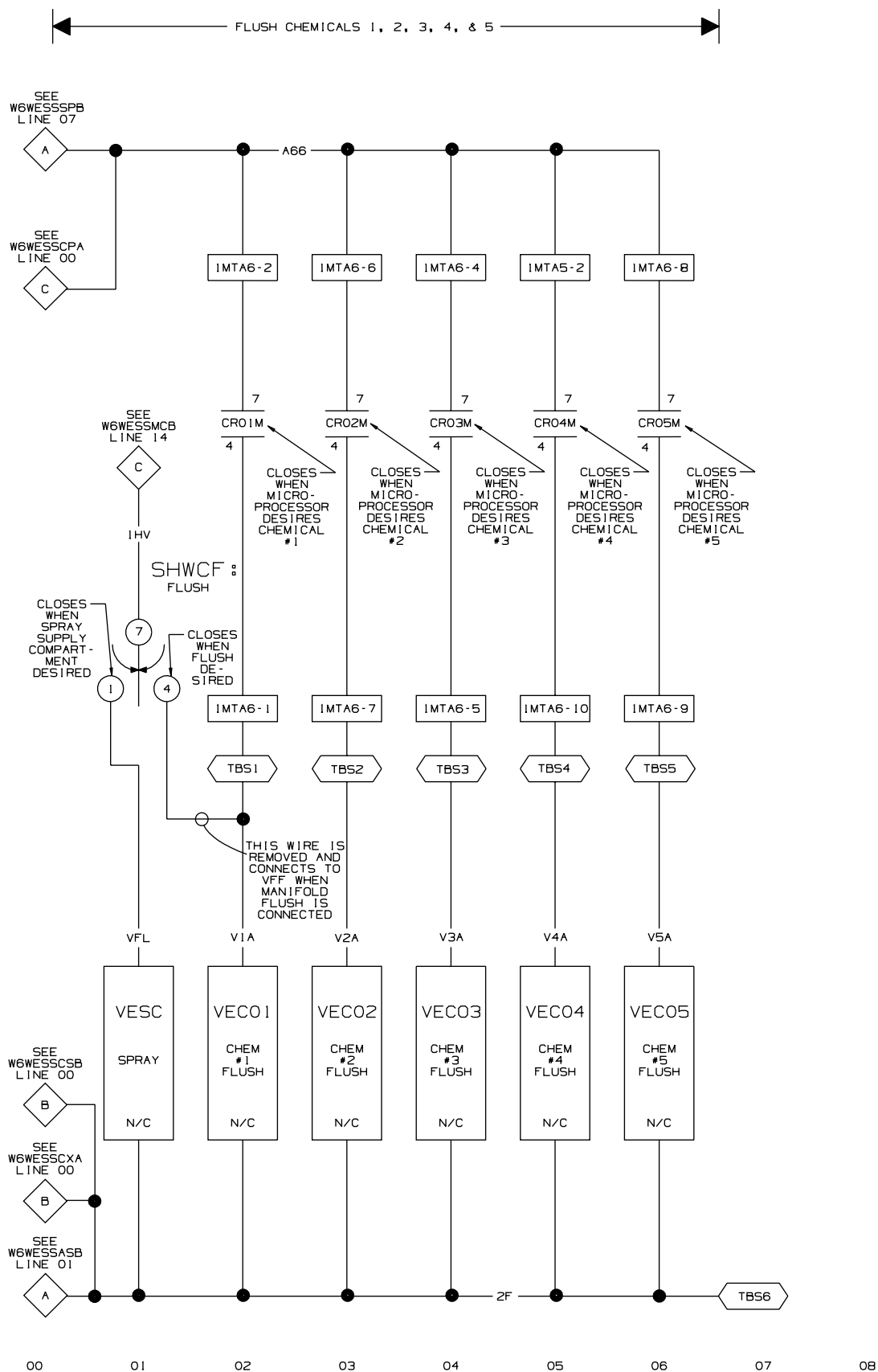
NOTES:

1. IMTP, IMTD ARE LOCATED ON ESPS (POWER SUPPLY).
2. IMTA31, 2MTA31, IMTA33, IMTA34 ARE LOCATED ON BPB (PROCESSOR BOARD).
3. IMTA1, IMTA2 ARE LOCATED BIO-118 OUTPUT-16 INPUT BOARD).
4. 2MTA11, 2MTA12 ARE LOCATED BIO16-2(16 OUTPUT BOARD).
5. IMTA11, IMTA12 ARE LOCATED ON BIO16-1 (16 OUTPUT BOARD).
6. IMTA51, IMTA52, IMTA56 ARE LOCATED ON BAD-1 (ANALOG TO DIGITAL BOARD).
7. TBP IS LOCATED IN LOW VOLTAGE CONTROL BOX.
8. IMTA39, IMTA40 ARE LOCATED ON BMT (MULTIPLEX INPUT BOARD).
9. IMTA57, IMTA58 ARE LOCATED ON BTP-1 (TEMPERATURE PROBE BOARD).
10. IMTA41, IMTA42 ARE LOCATED ON BDA-1 (DIGITAL TO ANALOG BOARD).
11. 2MTA32 IS LOCATED ON THE BBB-1 (BATTERY BACKUP BOARD).
12. WCD IS LOCATED ON THE PROCESSOR BOX DOOR.

W6WESSBWB

MICRO 6 SYSTEMS
MARK II

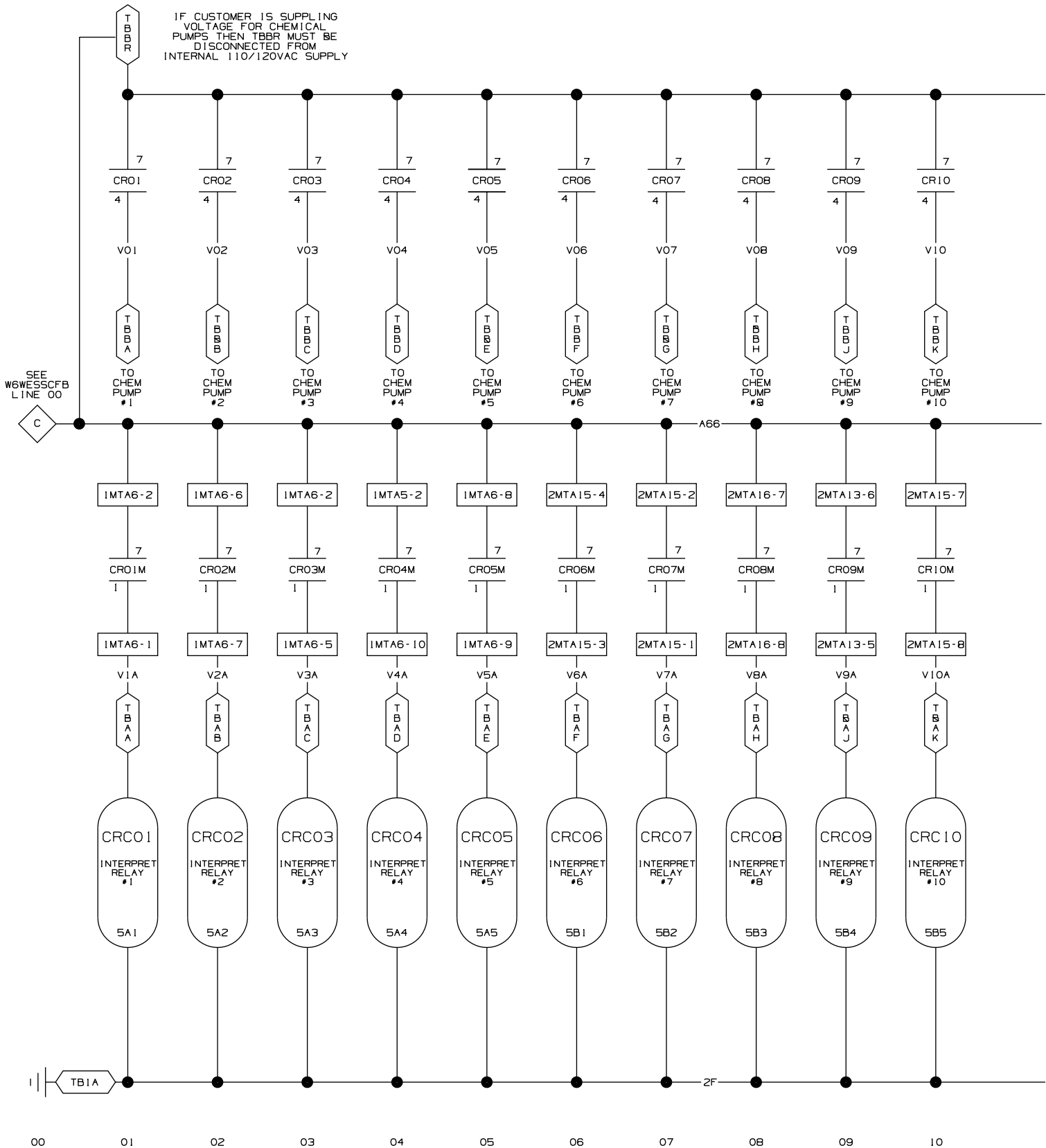
SCHEMATIC: BOARD TO BOARD WIRING
(SERIAL CONTROLS)
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

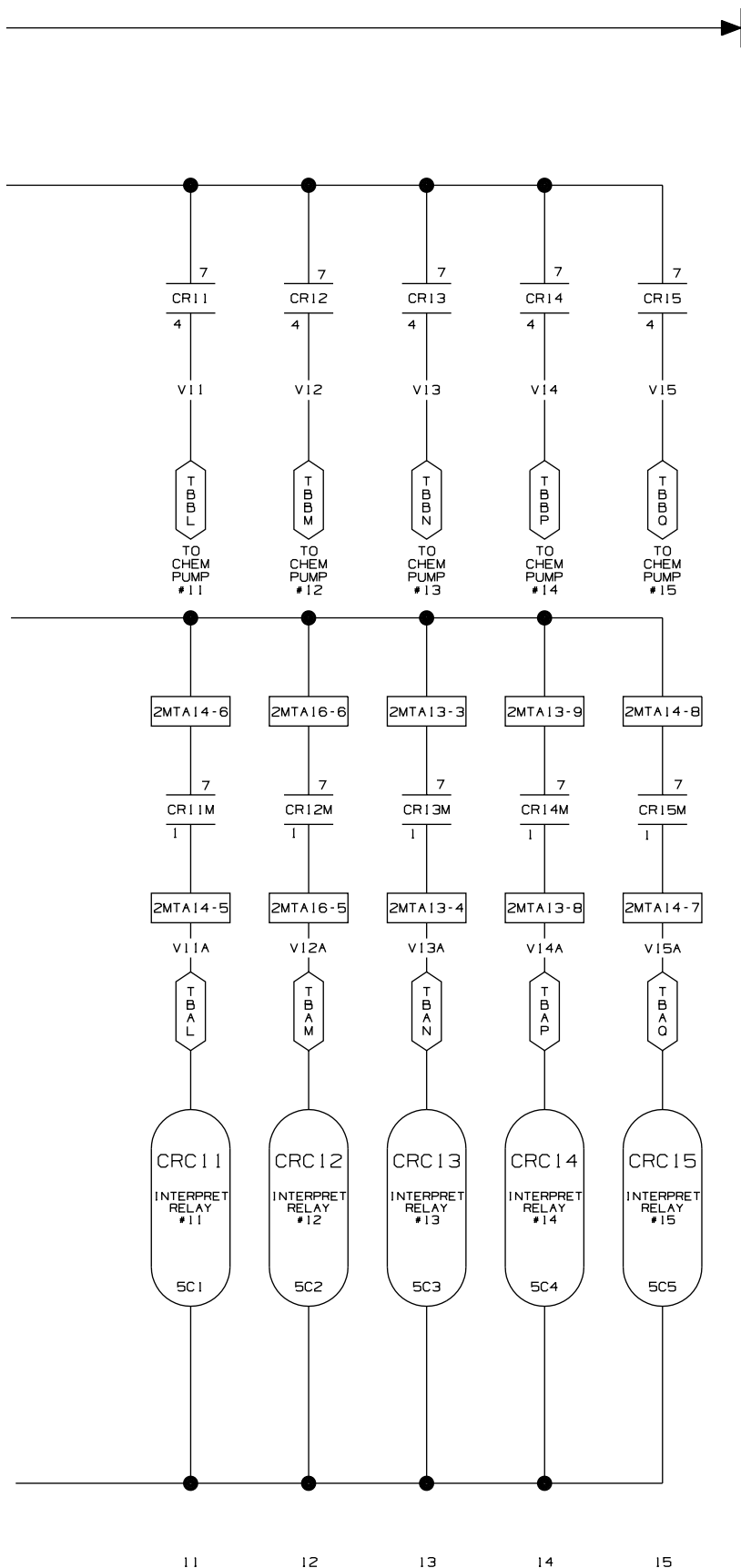


NOTES:

1. IMTA5, IMTA6 ARE LOCATED ON BIO-1 (8 OUTPUT-16 INPUT)

W6WESSCFB
MICRO 6 SYSTEMS
(SERIAL CONTROLS)
SCHEMATIC: FLUSHING SUPPLIES
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION





W6WESSCPA

MICRO 6 SYSTEMS

SERIAL CONTROLS

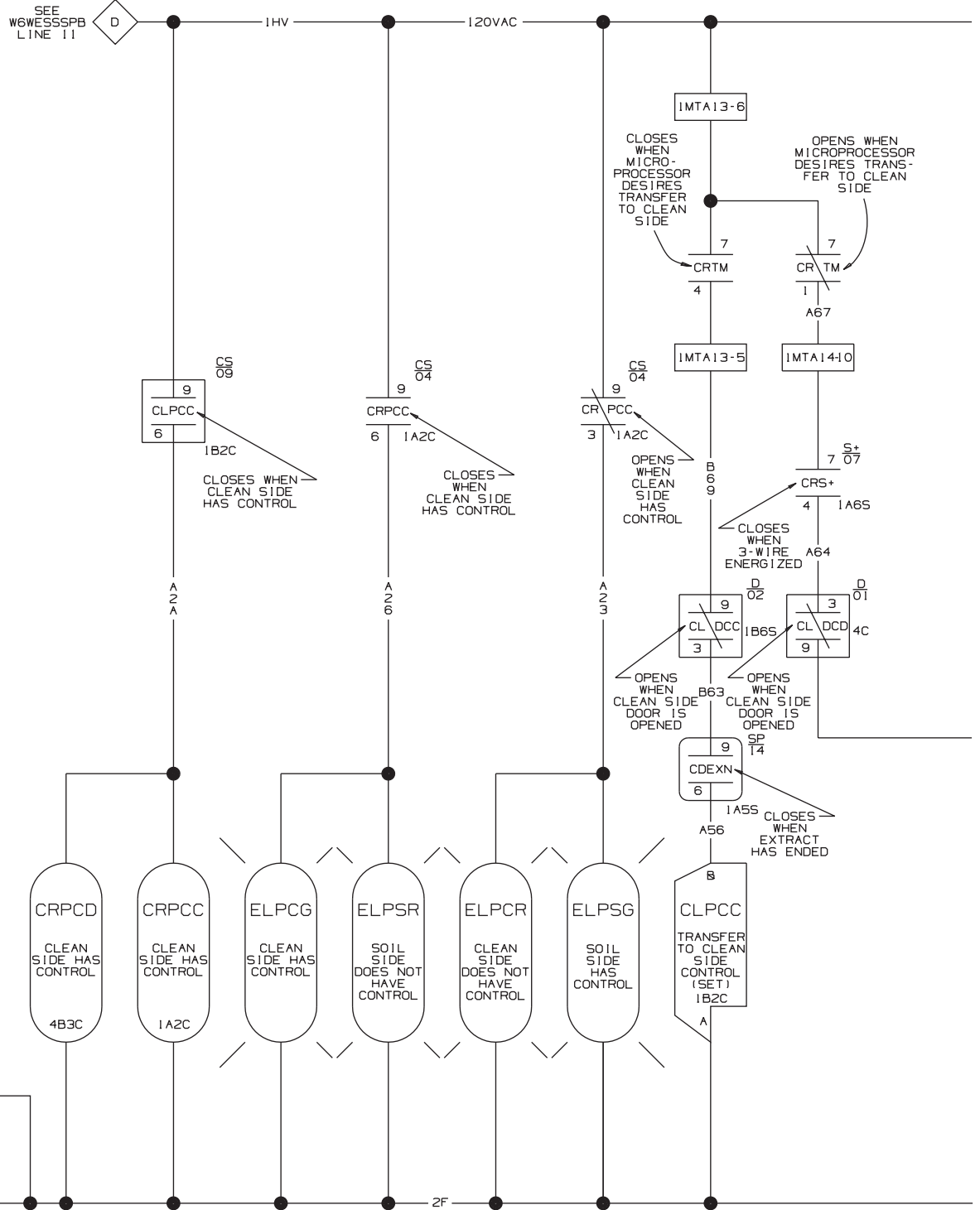
SCHEMATIC: LIQUID SUPPLY - INTERPRET RELAYS

110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



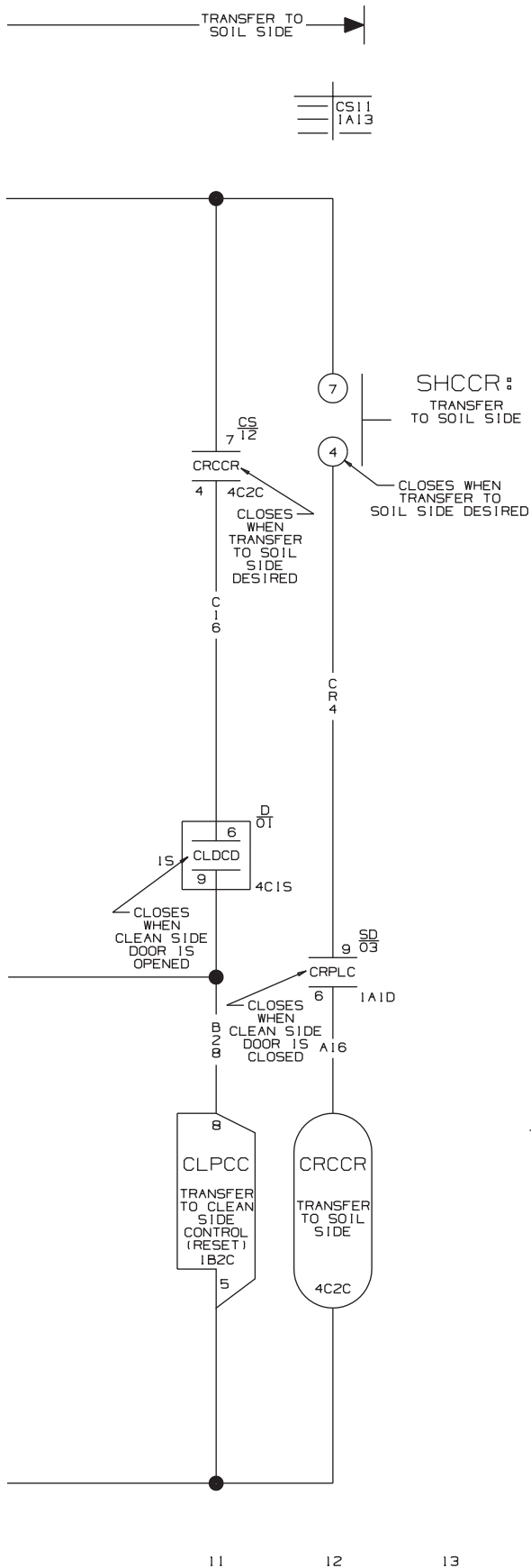
A502	A501	S+02	S+01
CS08	CS08	SD08	CS06

D11	D13
CS04	



LITHO IN U.S.A.

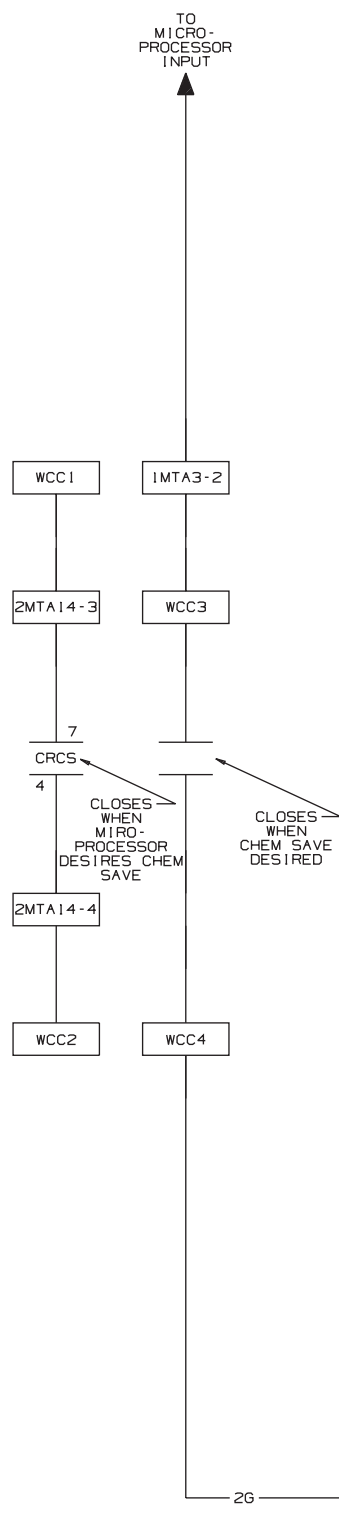
00 01 02 03 04 05 06 07 08 09 10



NOTES:

1. RELAYS CRPCD, AND CRCCR ARE LOCATED IN AUTOSPOT CONTROL BOX.
2. IMTA13, IMTA14 ARE LOCATED ON B016-1 (16 OUTPUT BOARD).

W6WESSCSB
 MICRO 6 SYSTEMS
 (SERIAL CONTROLS)
 SCHEMATIC: CLEAN & SOIL SIDE CONTROLS
 110V1P50HZ/120V1P60HZ
 PELLERIN MILNOR CORPORATION



00 01 02 03 04 05 06 07

NOTES:

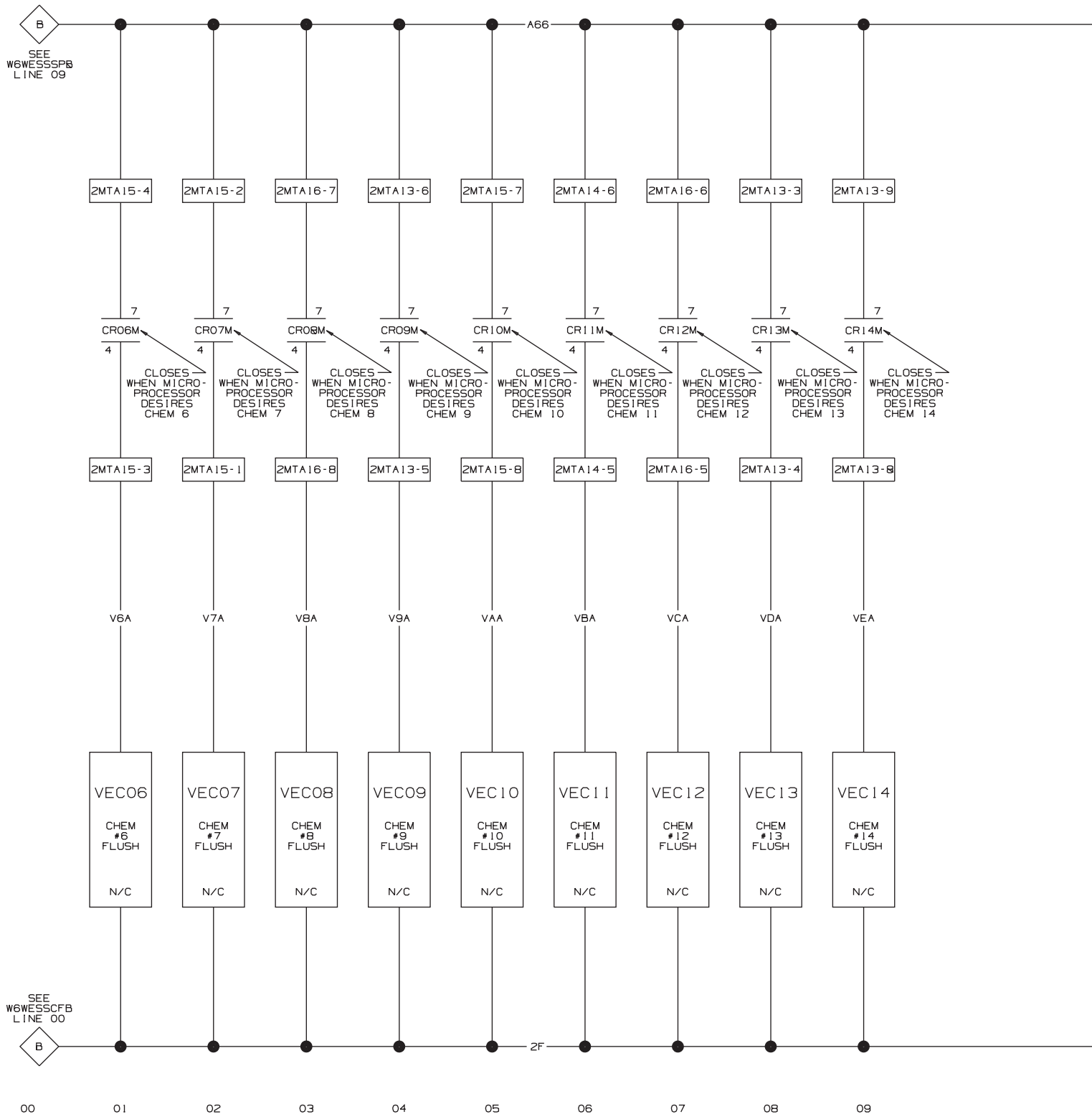
WCC IS LOCATED IN
THE RIGHT CONTROL BOX

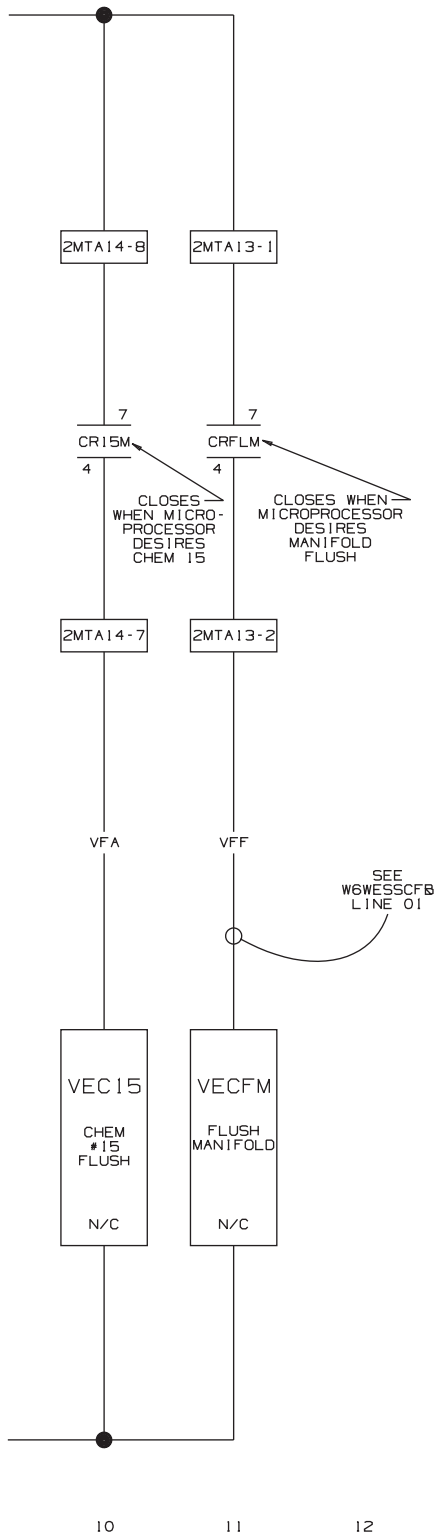
W6WESSCV

MICRO 6 SYSTEMS
MARK II

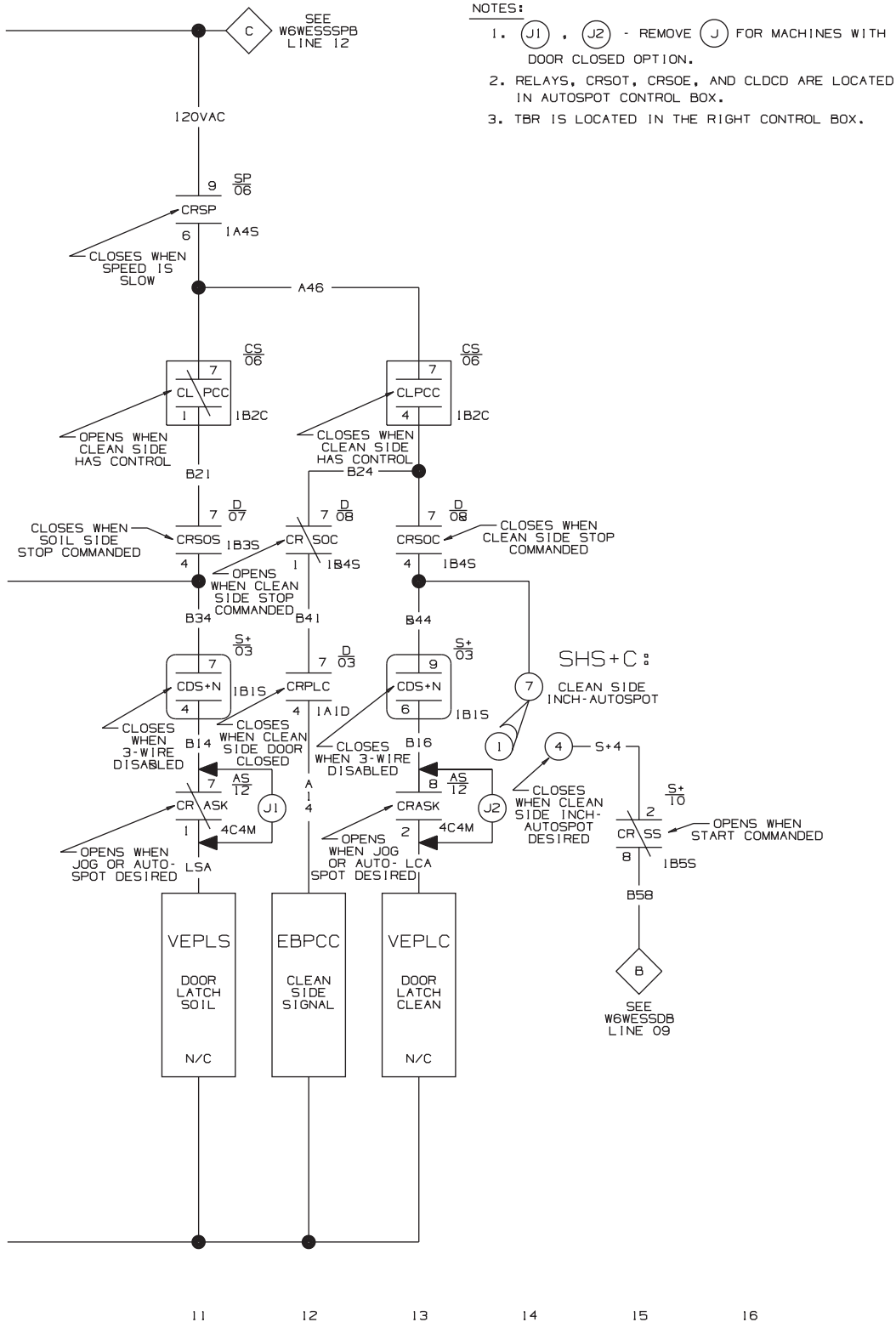
SCHEMATIC: CHEMICAL SAVE (OPTIONAL)

PELLERIN MILNOR CORPORATION





W6WESSCXA
MICRO 6 SYSTEMS
SERIAL CONTROLS
MARK II
SCHEMATIC: CENTRAL LIQUID SUPPLY FLUSH
6 THRU 15
PELLERIN MILNOR CORPORATION

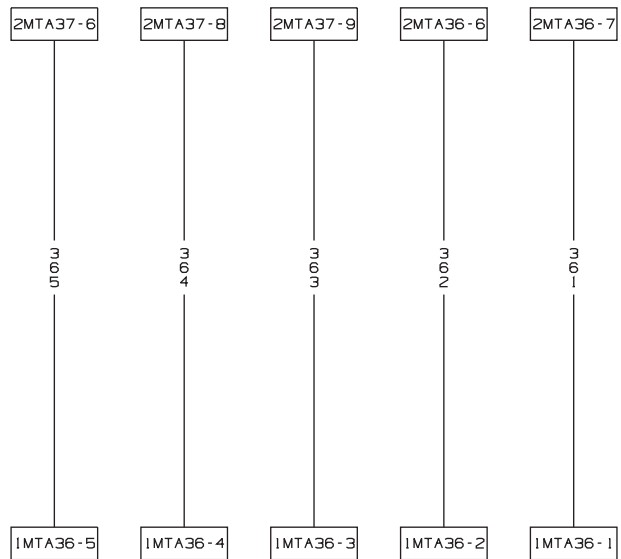
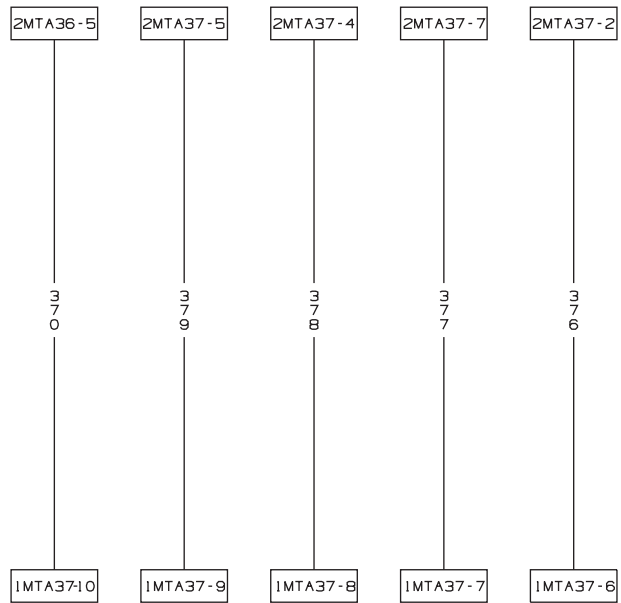


W6WESSDB

MICRO 6 SYSTEMS (SERIAL CONTROLS)

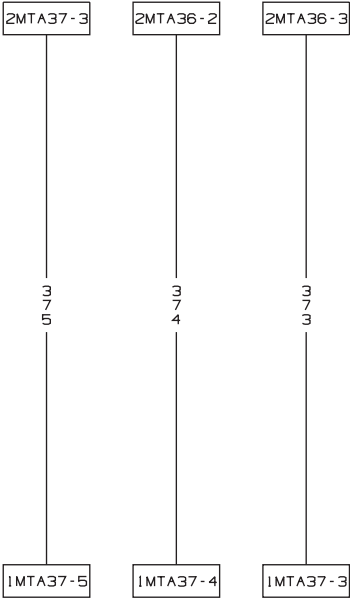
SCHEMATIC: DOOR CIRCUITS

110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



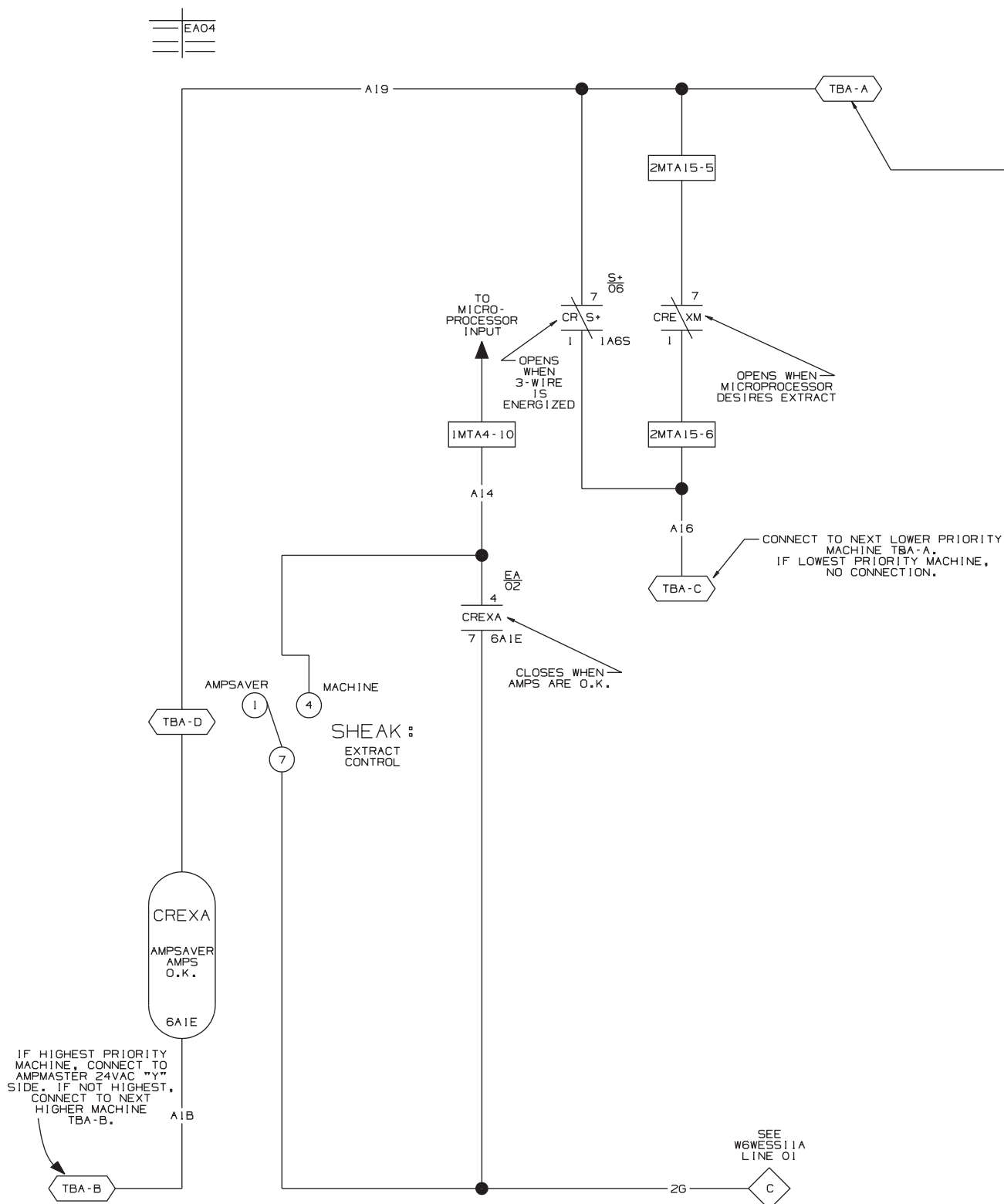
LITHO IN U.S.A.

00 01 02 03 04 05 06 07 08 09 10



- NOTES:
- 1. 1MTA36, 1MTA37 ARE LOCATED ON BPB (PROCESSOR BOARD).
 - 2. 2MTA36, 2MTA37 ARE LOCATED ON DISPLAY BOARD.

WBWESSDS
MICRO 6 SYSTEMS
SERIAL CONTROLS
MARK II
SCHEMATIC: DISPLAY
PELLERIN MILNOR CORPORATION



LITHO IN U.S.A.

00 01 02 03 04 05 06 07 08 09 10



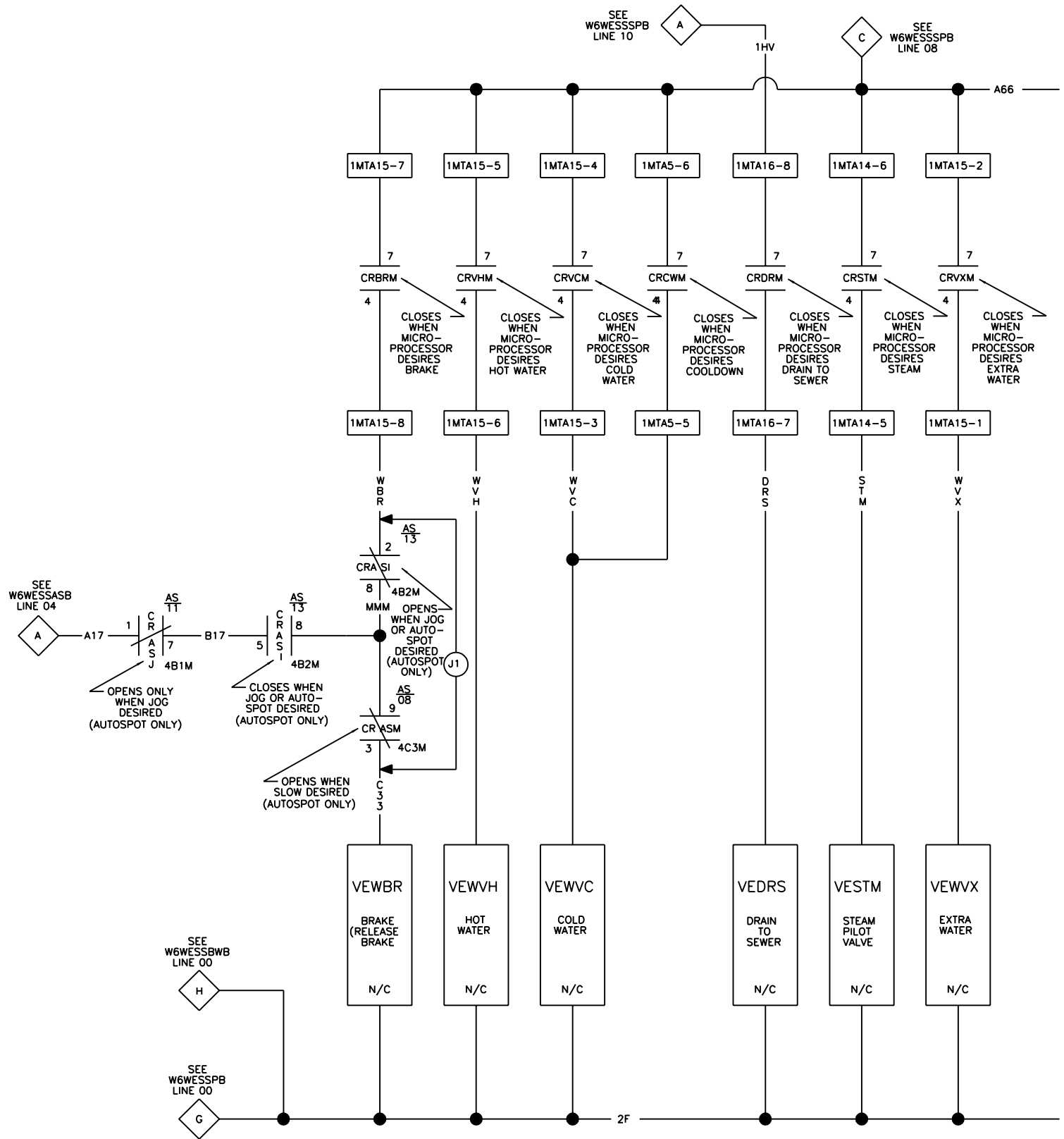
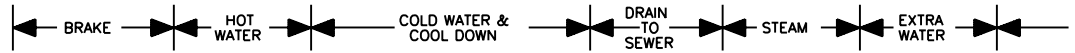
IF HIGHEST PRIORITY MACHINE, CONNECT TO
AMP MASTER 24VAC "X" SIDE. IF NOT HIGHEST
PRIORITY, CONNECT TO TBA-C OF NEXT HIGHER
PRIORITY MACHINE.

NOTES:

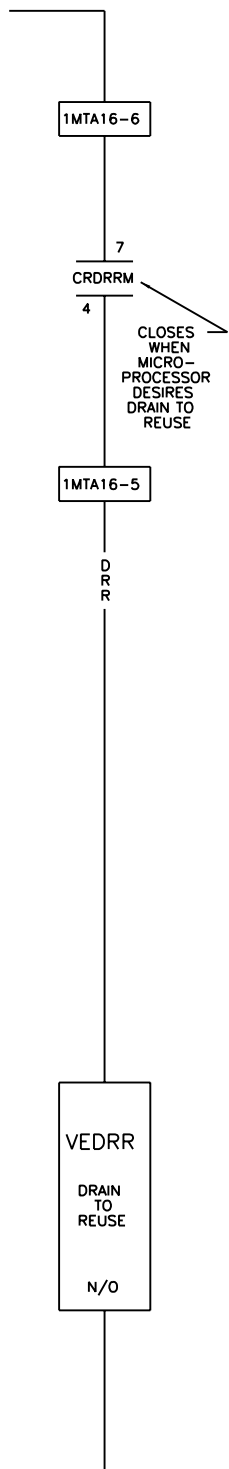
1. TBA IS LOCATED IN THE RIGHT CONTROL BOX AND ALSO ON THE SIDE OF THE MACHINE IF IT IS A TILT MACHINE.
2. IMTA4 IS LOCATED ON B10-1 (8 OUTPUT-16 INPUT BOARD).
3. AMPSAVER INTERFACE (MK4, MK5, AND MICRO 6).
4. ZMTA15 IS LOCATED ON B1016-2 (16 OUTPUT BOARD).

W6WESSEAB
MICRO 6 SYSTEMS
EXTRACT COMMANDS SATISFIED
(SERIAL CONTROLS)
24V1P50HZ/24V1P60HZ
PELLERIN MILNOR CORPORATION

SCHEMATIC :



DRAIN
TO
REUSE



W6WESSEVB

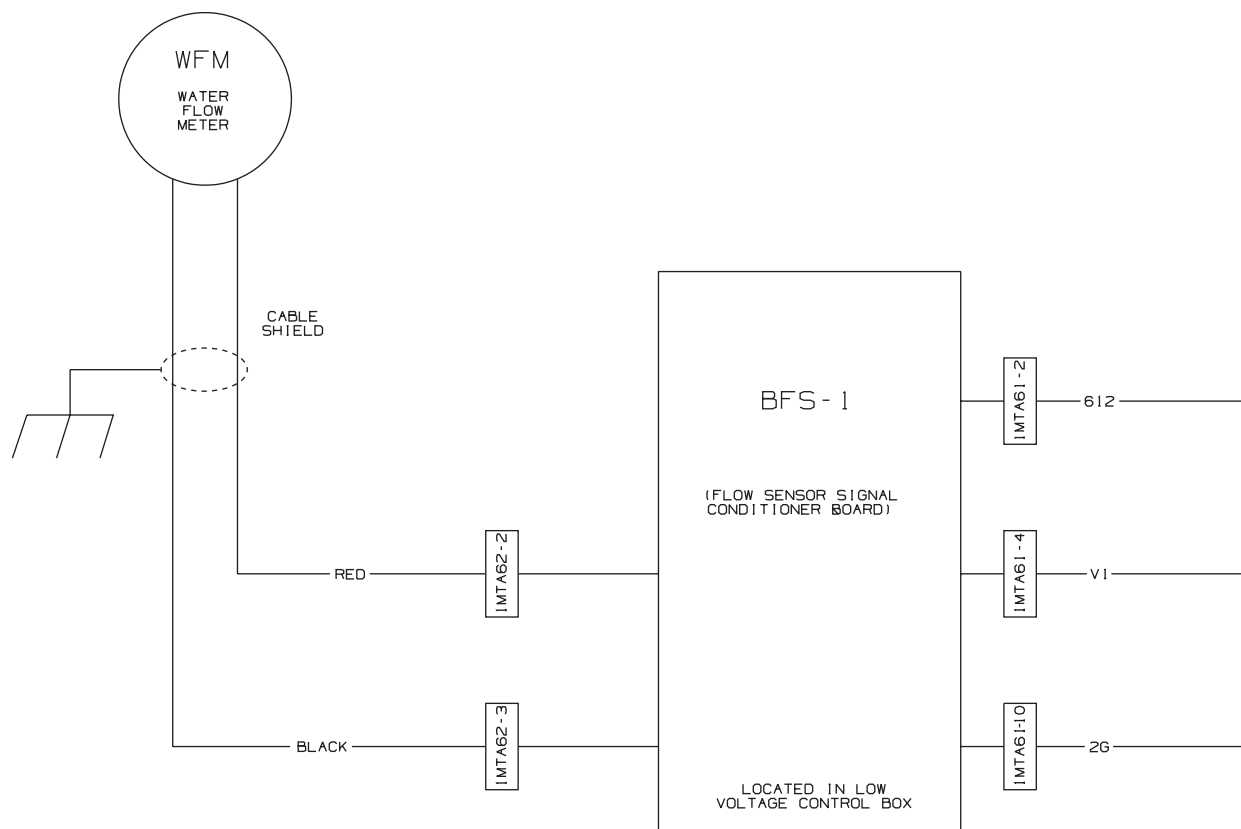
MICRO 6 SYSTEMS (SERIAL CONTROLS)

SCHEMATIC: ELECTRICAL VALVES

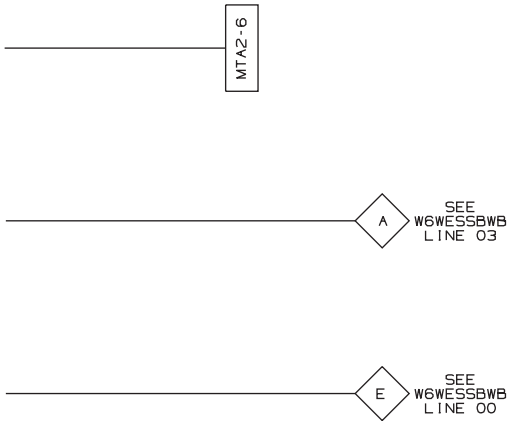
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. REMOVE (J1) FOR MACHINES WITH AUTOSPOT.
2. 1MTA5 IS LOCATED ON BIO-1 (8 OUTPUT, 16 INPUT BOARD).
3. 1MTA14, 1MTA15, 1MTA16 ARE LOCATED ON BO16-1 (16 OUTPUT BOARD).

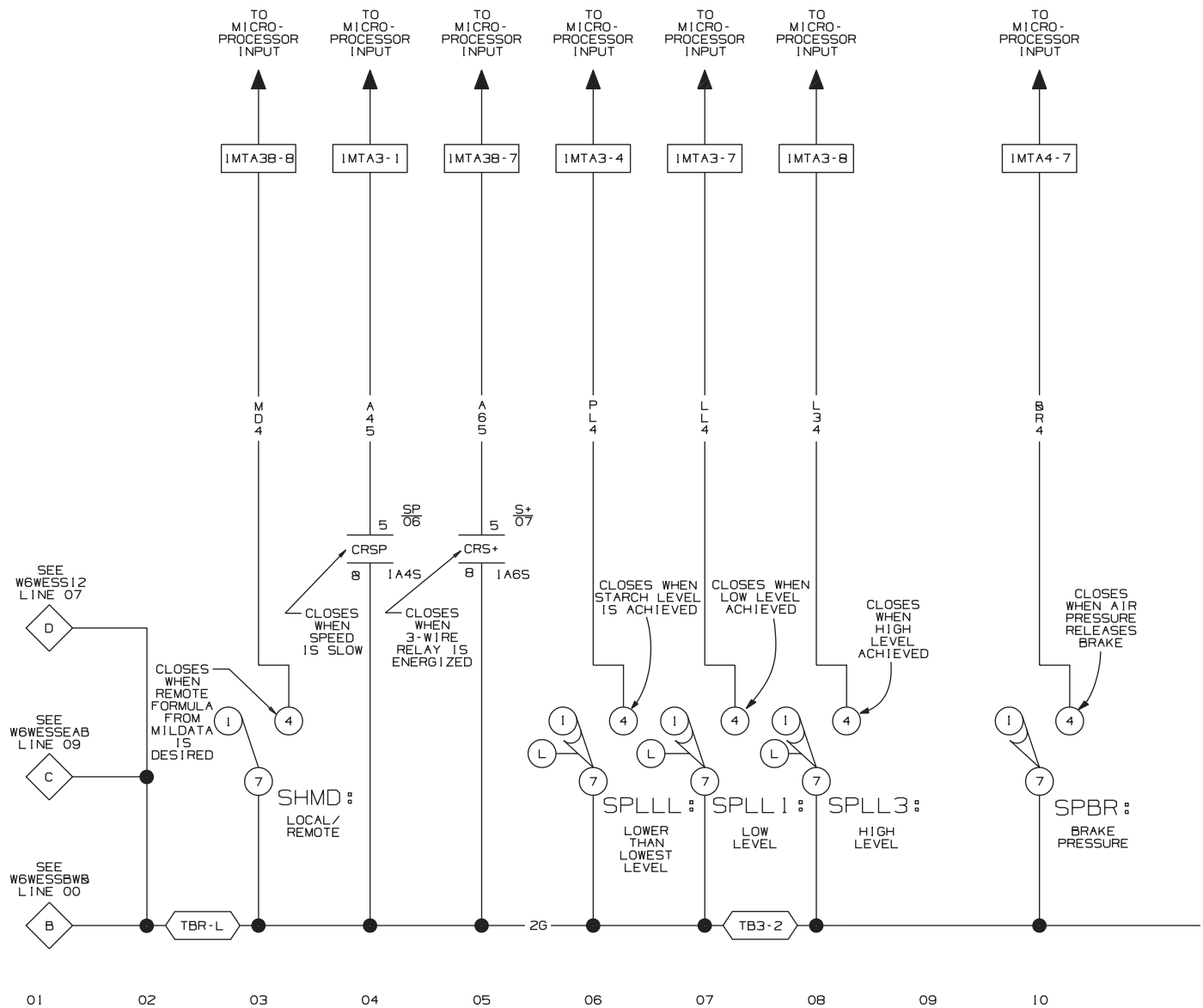


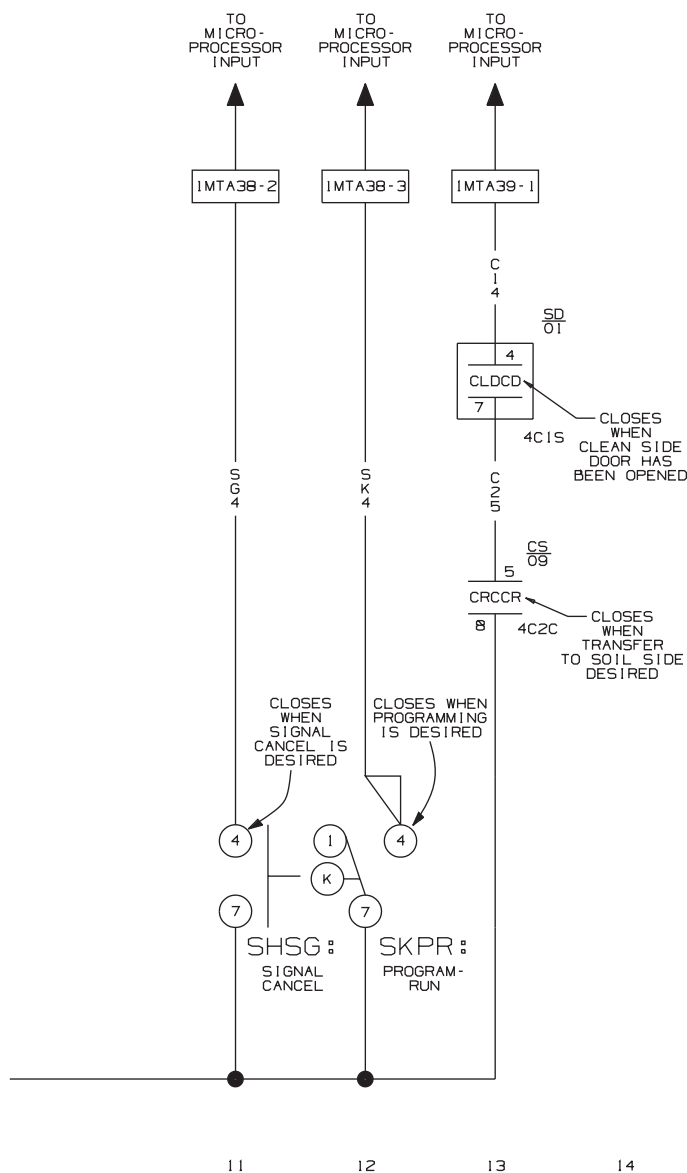
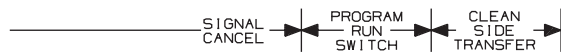
00 01 02 03 04 05 06 07 08 09 10



- NOTES:
- 1. MTA61, MTA62 ARE LOCATED ON BFS-1 (FLOW SENSOR SIGNAL CONDITIONER BOARD)
 - 2. IMTA2 IS LOCATED ON B10-1 (8 OUTPUT, 16INPUT BOARD)

W6WESSFS
MICRO 6 SYSTEMS
SCHEMATIC: FLOW SENSOR (OPTIONAL)
PELLERIN MILNOR CORPORATION

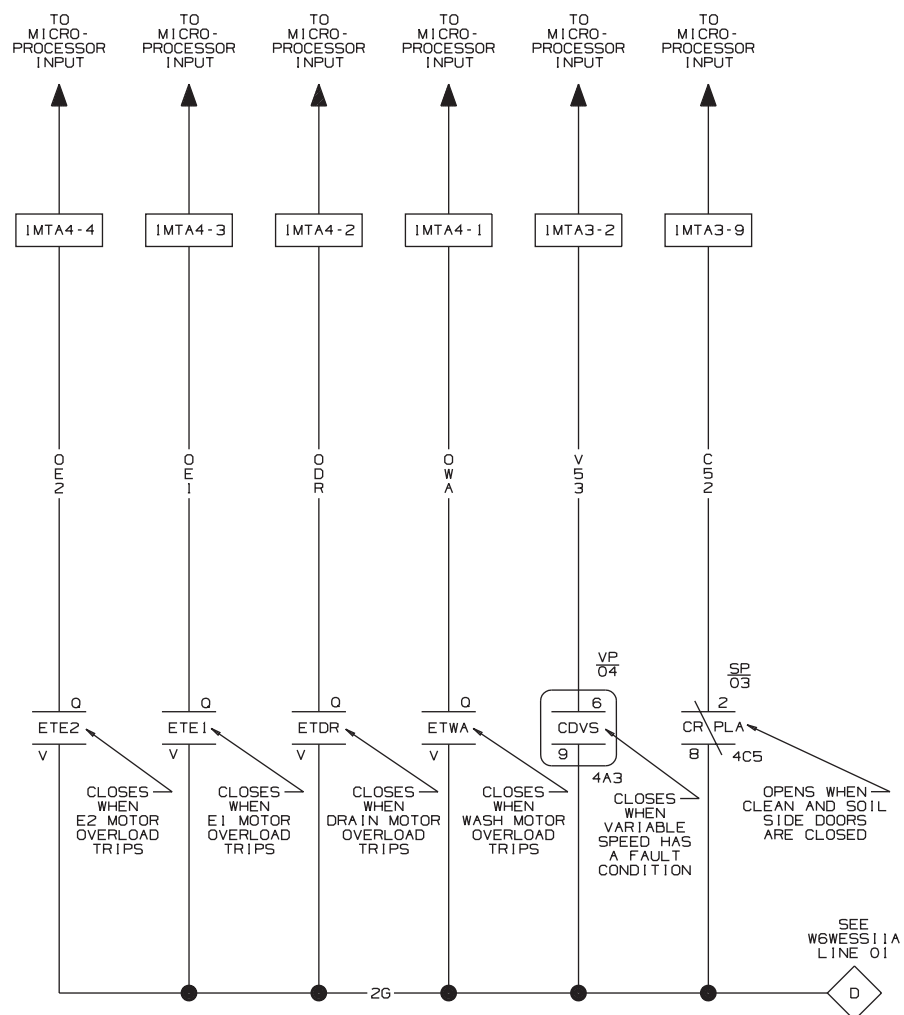




NOTES:

1. IMTA3, IMTA4 ARE LOCATED ON BIO-1 (8 OUTPUT, 16 INPUT BOARD).
2. IMTA38 AND IMTA39 IS LOCATED ON BPB (PROCESSOR BOARD).
3. TBR, TB3 ARE LOCATED IN THE RIGHT CONTROL BOX.

W6WESS11A
MICRO 6 SYSTEMS
(SERIAL CONTROLS)
SCHEMATIC: MICROPROCESSOR INPUTS
SHEET 1 OF 2
PELLERIN MILNOR CORPORATION



NOTES:

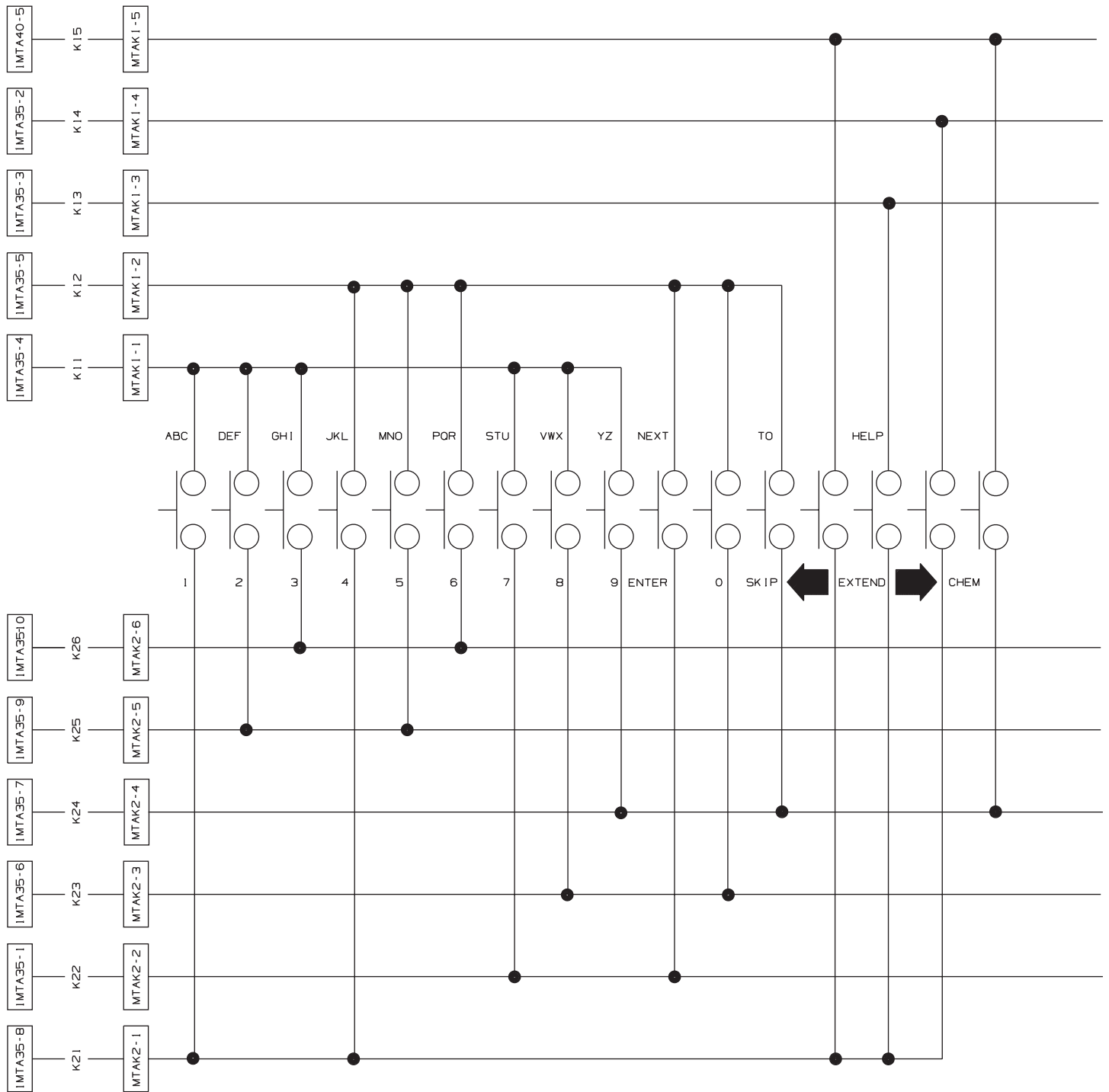
1. IMTA3 & IMTA4 ARE LOCATED ON BIO-1
(8 OUTPUT, 16 INPUT BOARD).

W6WESS12

MICRO 6 SYSTEMS
MARK II

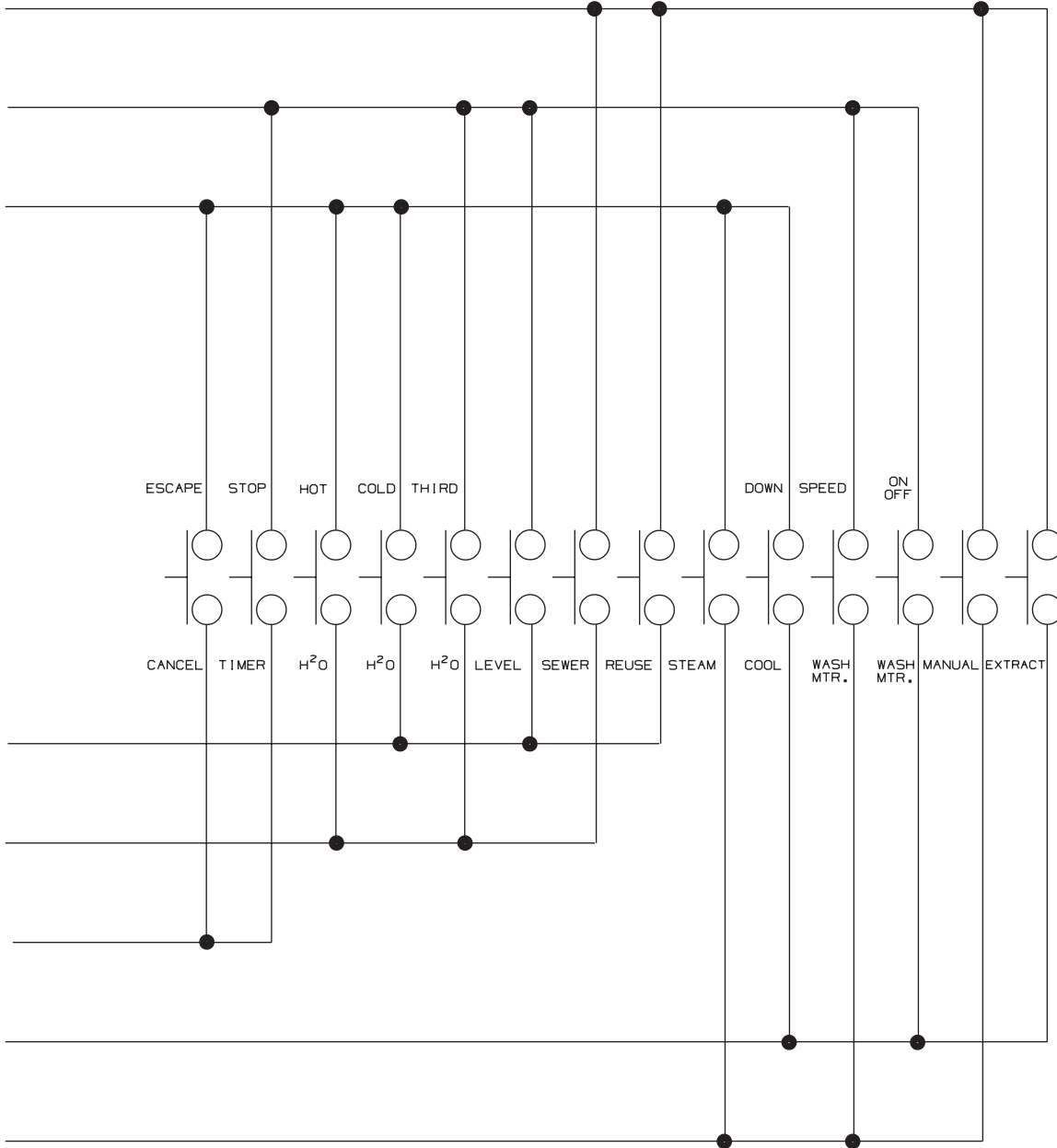
SCHEMATIC: MICROPROCESSOR INPUTS
SHEET 2 OF 2

PELLERIN MILNOR CORPORATION



LITHO IN U.S.A.

00 01 02 03 04 05 06 07 08 09 10

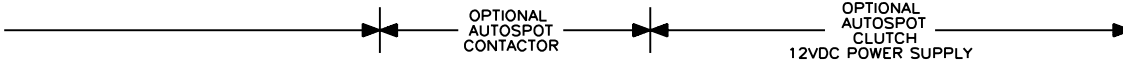


NOTES:

1. MTA1 & MTA2 ARE LOCATED ON KEYPAD.
2. IMTA35 & IMTA40 ARE LOCATED ON BPB (PROCESSOR BOARD).

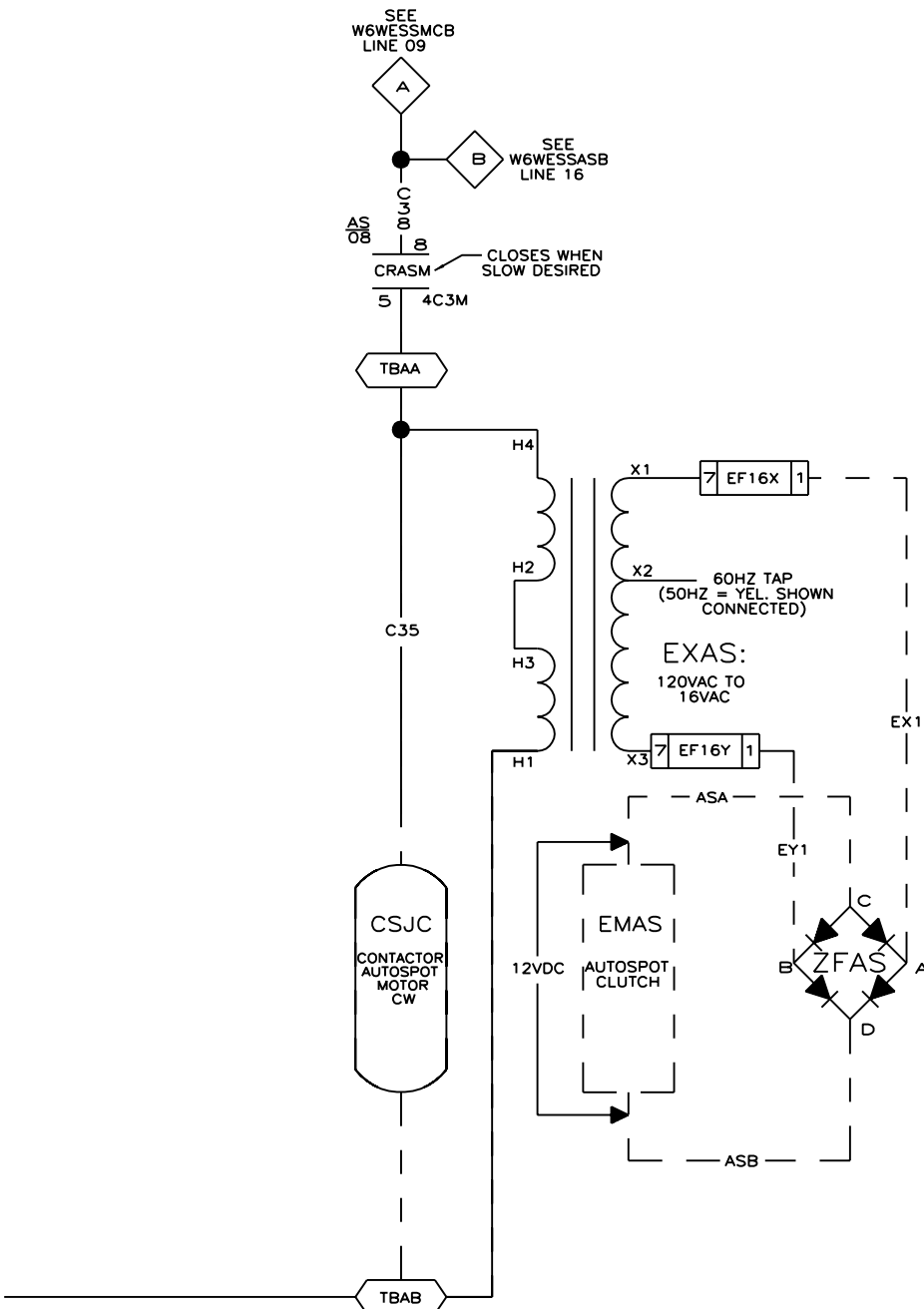
W6WESSKP
MICRO 6 SYSTEMS
MARK II
SCHEMATIC: KEYPAD (SERIAL CONTROLS)
PELLERIN MILNOR CORPORATION

11 12 13 14 15 16 17 18 19



NOTES:

1. 1MTA13, 1MTA14 ARE LOCATED ON BO16-1 (16 OUTPUT BOARD)
2. 1MTA5 IS LOCATED ON BIO-1 (8 OUTPUT 16 INPUT BOARD)
3. TBA IS LOCATED ON BIO-1 (16 OUTPUT BOARD)
4. REMOVE (J1) FOR 2 SPEED EXTRACT
5. REMOVE (J2) FOR AUTOSPOT
6. BREAK WIRE WCA AT "X" AND ADD (J3) FOR OPTIONAL VARIABLE SPEED CONTROLLER

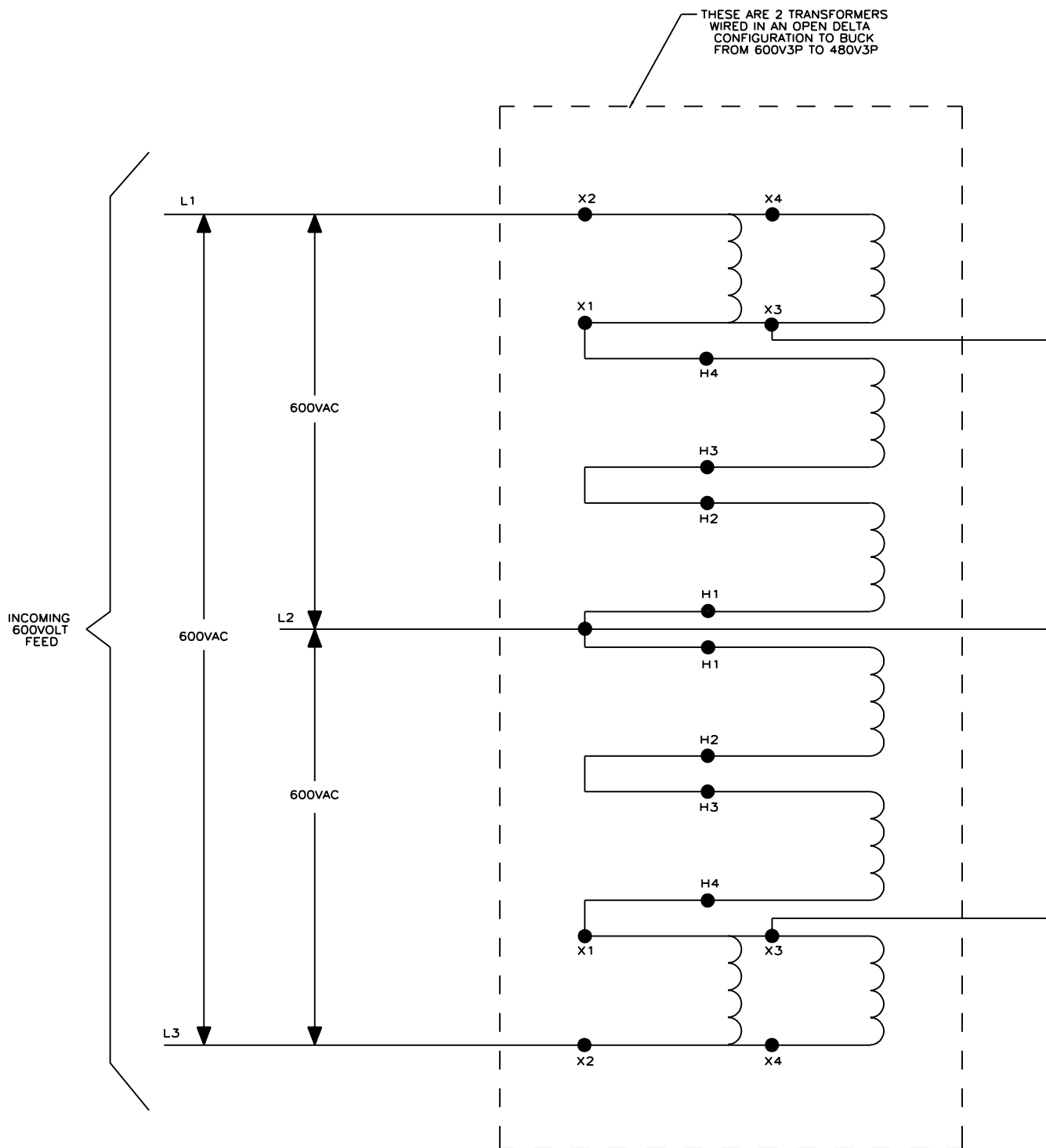


W6WESSMCB

MICRO 6 SYSTEMS

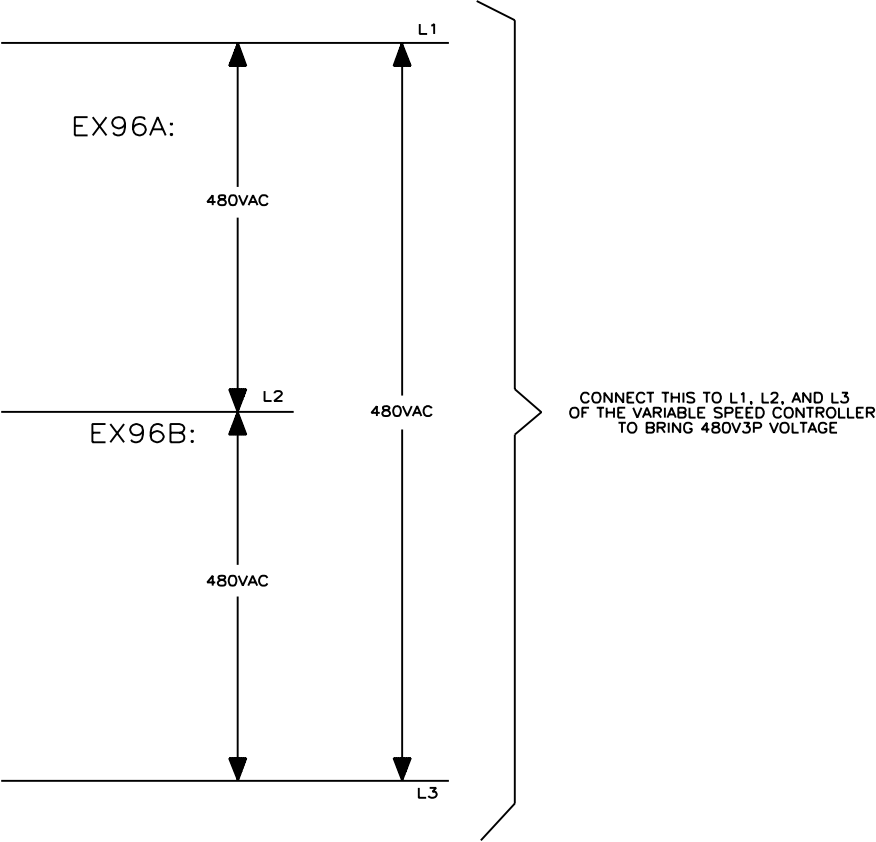
SCHEMATIC: DRIVE MOTOR CONTACTORS (SERIAL CONTROLS)

110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

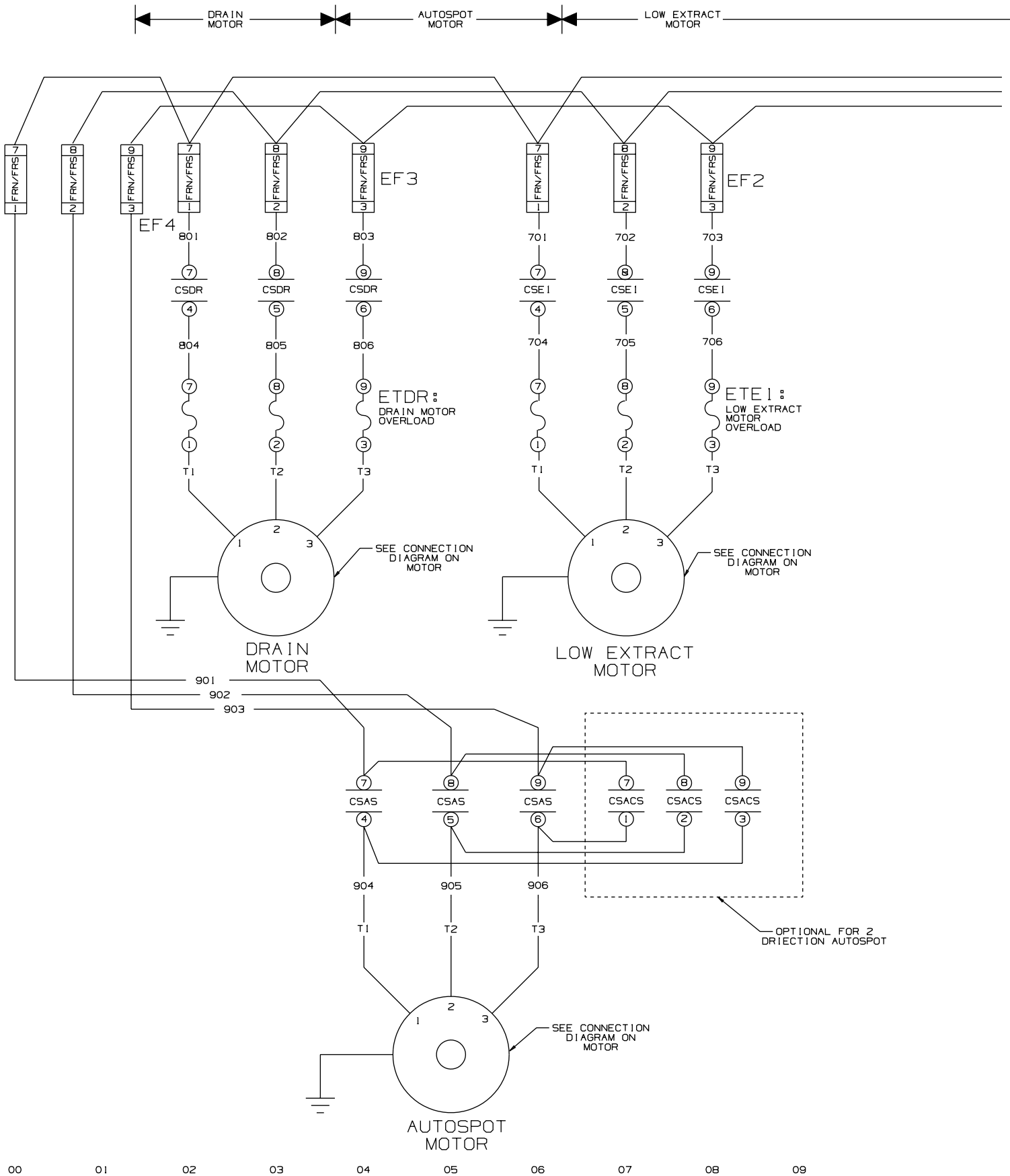


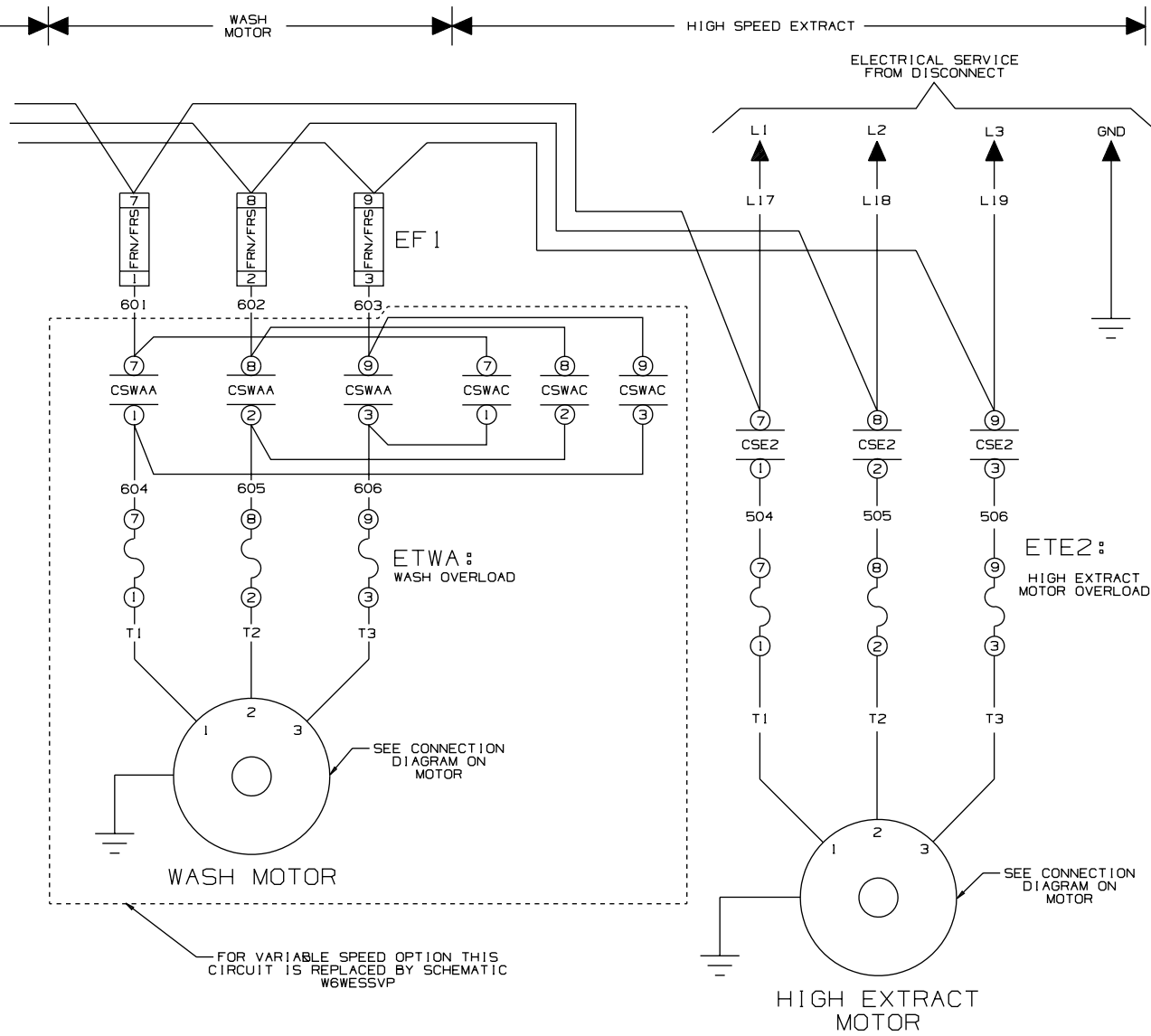
00 01 02 03 04 05 06 07 08 09 10

INPUT (SUPPLY SYSTEM)	DESIRED OUTPUT CONNECTION	
DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
OPEN DELTA 3 WIRE	WYE 3 OR 4 WIRE	DO NOT USE
WYE 3 OR 4 WIRE	CLOSED DELTA 3 WIRE	DO NOT USE
WYE 4 WIRE	WYE 3 OR 4 WIRE	OK
WYE 3 OR 4 WIRE	OPEN DELTA 3 WIRE	OK
CLOSED DELTA 3 WIRE	OPEN DELTA 3 WIRE	OK



W6WESSMT6
MICRO 6 SYSTEMS
MARK II
SCHEMATIC: 600V VARIABLE SPEED
PELLERIN MILNOR CORPORATION

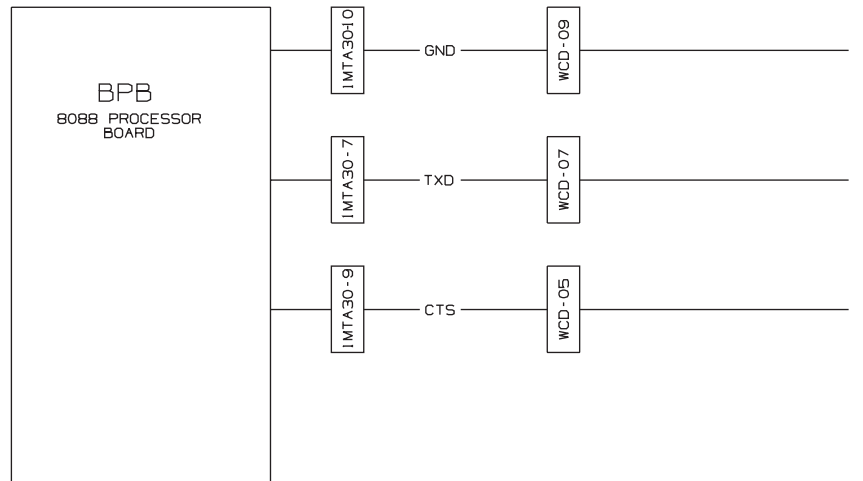


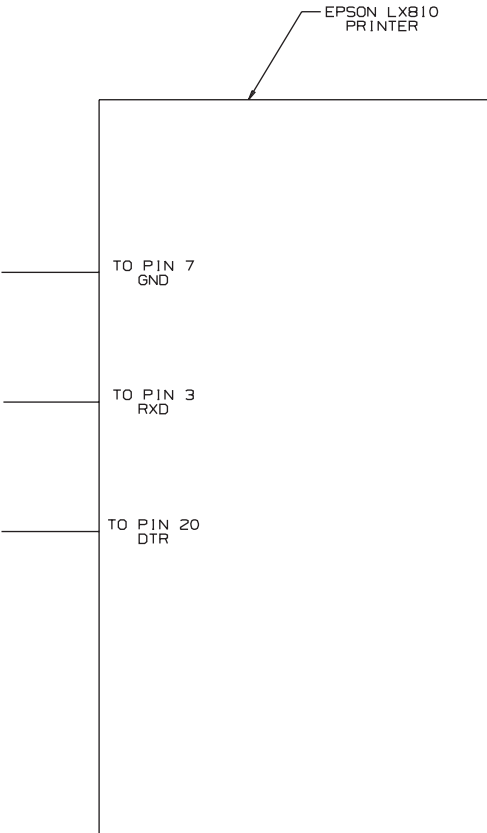
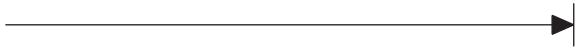


W6WESSMTA
MICRO 6 SYSTEMS
MARK II
SCHEMATIC: MOTOR CONNECTIONS
(SERIAL CONTROLS)
PELLERIN MILNOR CORPORATION

NOTE:

THE FUSING SHOWN ON THIS DRAWING
WILL VARY BASED ON VOLTAGE AND MACHINE SIZE.
CHECK MACHINE NAMEPLATE FOR ACTUAL FUSING OF MOTORS.





SETTING FOR EPSON LX810
SERIAL INTERFACE BOARD
(#8143).

9600BAUD-8 BIT WORD LENGTH
EVEN PARITY 1 STOP BIT PARITY
CHECK ENABLED.

DIP SWITCH	JUMPER SETTING
1 ON	J1 : OFF
2 OFF	J2 : OFF
3 OFF	J3 : OFF
4 OFF	J4 : OFF
5 ON	J5 : ON
6 ON	JRS : ON
7 OFF	JC : OFF
8 ON	JNOR : ON
	JREV : OFF
	JF : ON
	JX : OFF

NOTES:

WCD IS LOCEATED
ON PROCESSOR BOX
DOOR

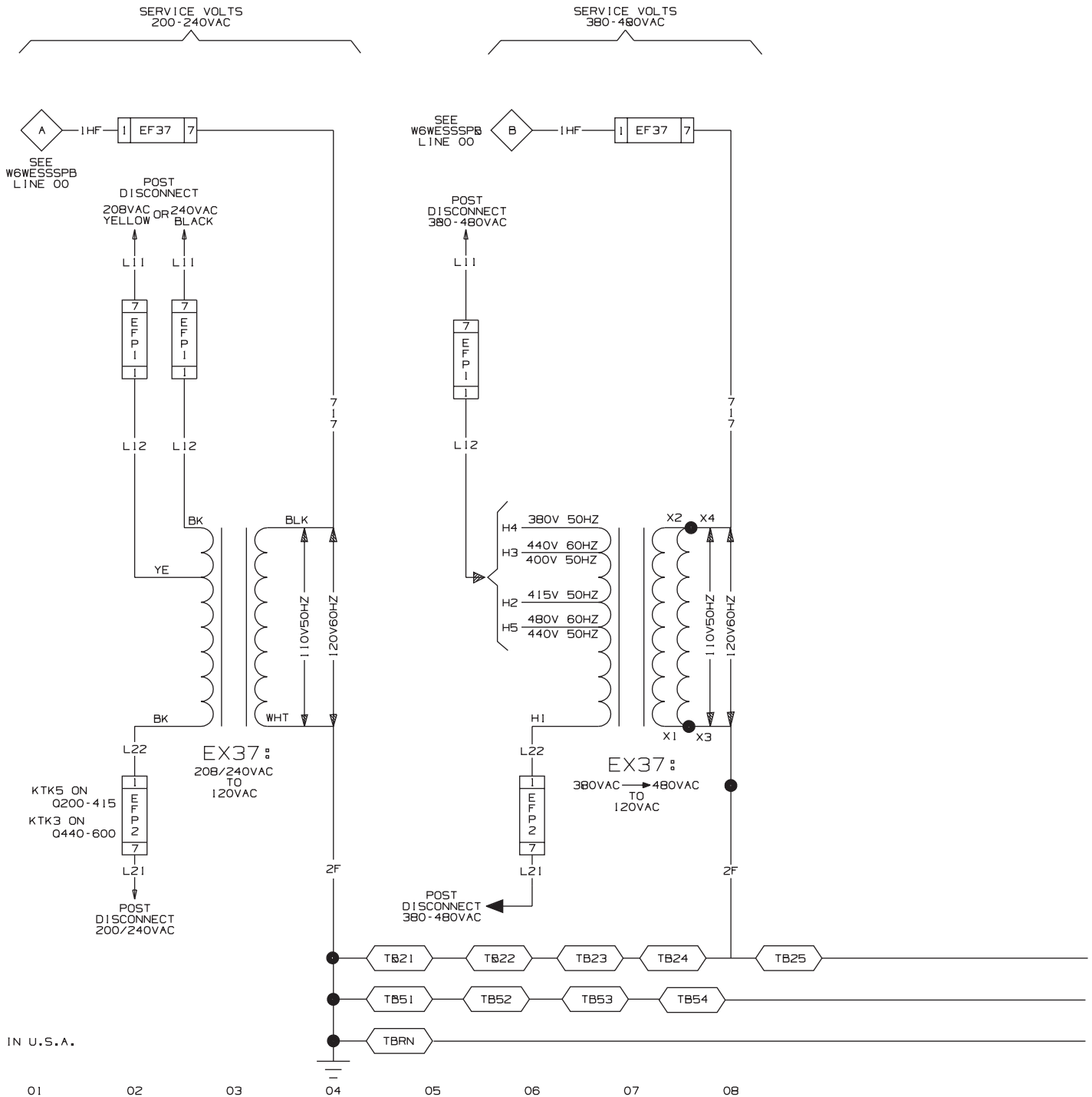
W6WESSPIA

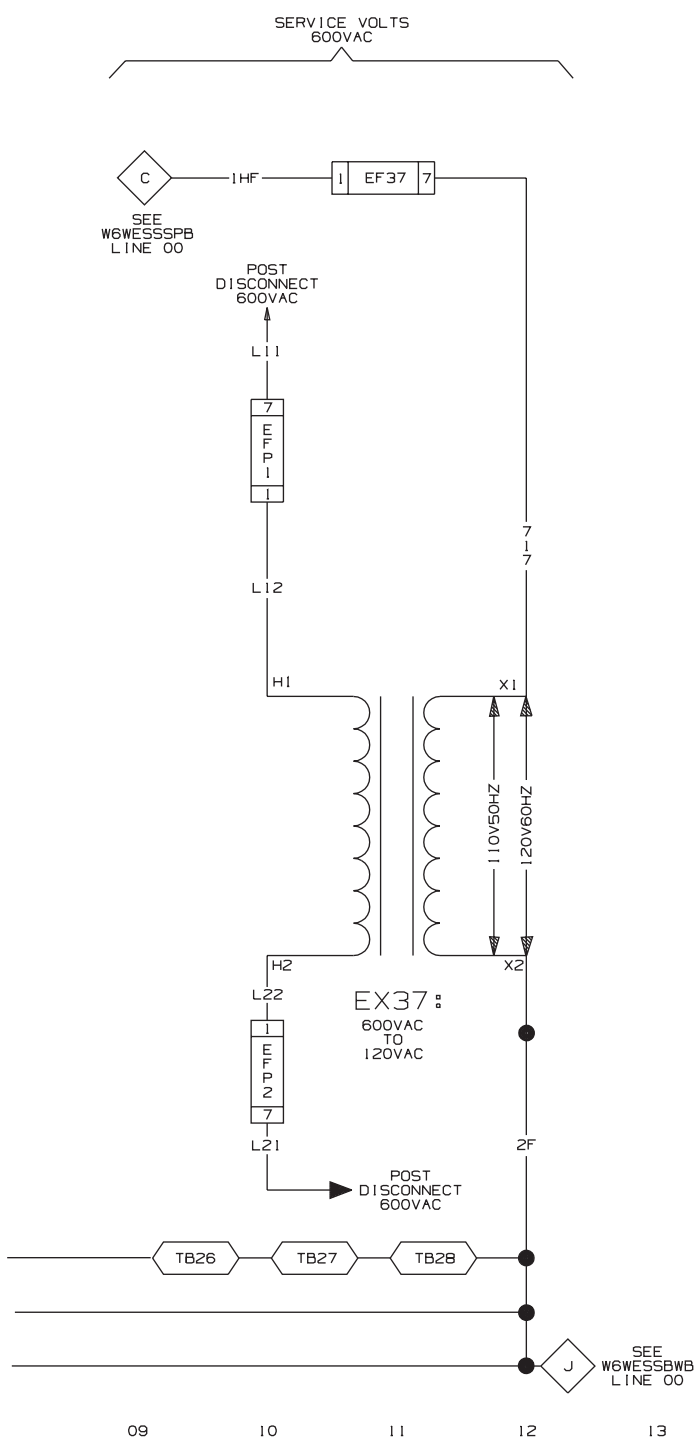
SCHEMATIC: PRINTER WIRING

PELLERIN MILNOR CORPORATION

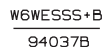
10 11 12 13 14 15 16 17 18

CONTROL CIRCUIT POWER





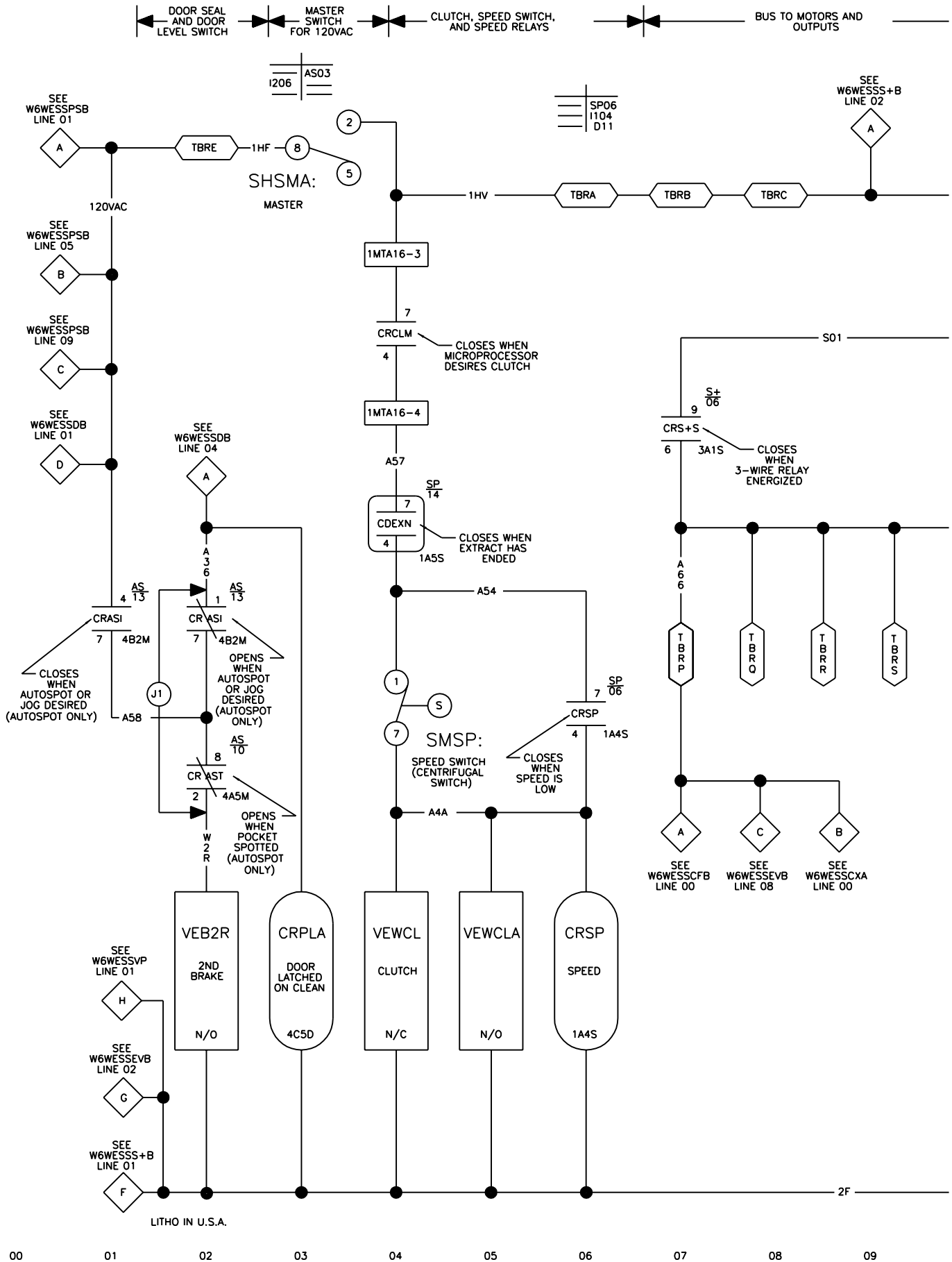
WBWESSPSB
MICRO 6 SYSTEMS
SCHEMATIC: SOURCE 110V1P50HZ/120V1P60HZ
(SERIAL CONTROLS)
CONTROL CIRCUIT POWER
PELLERIN MILNOR CORPORATION

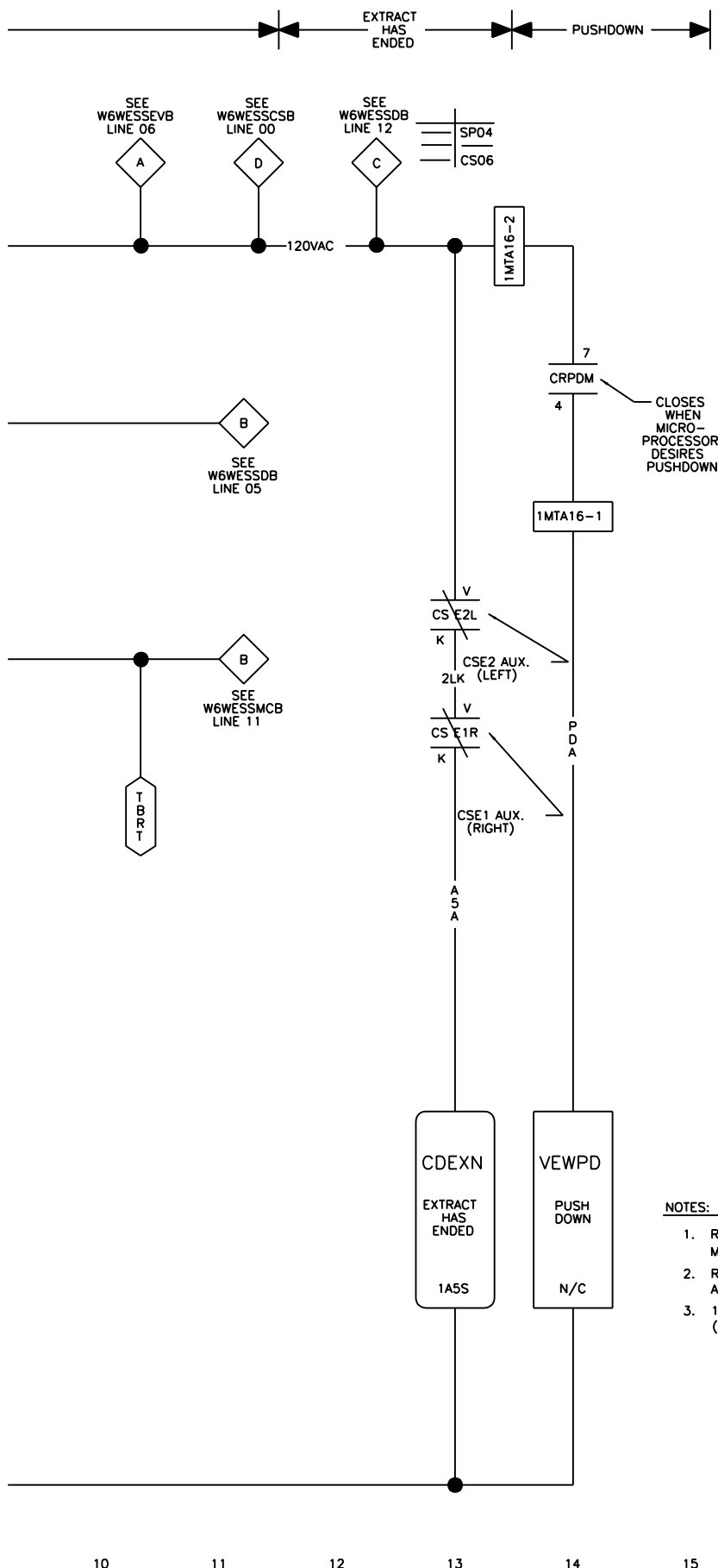


WGWESS+B
MICRO 6 SYSTEMS
(SERIAL CONTROLS)
SCHEMATIC: START CIRCUIT
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. RELAY CLDCD IS LOCATED IN AUTOSPOT CONTROL BOX.
2. IMTA14 IS LOCATED ON B016-1 (16 OUTPUT BOARD).
3. REMOVE (J4) FOR VARIABLE SPEED OPTION.





W6WESSPB

MICRO 6 SYSTEMS (SERIAL CONTROLS)

SCHEMATIC: SPEED, DOOR CIRCUITS, & MASTER SWITCH

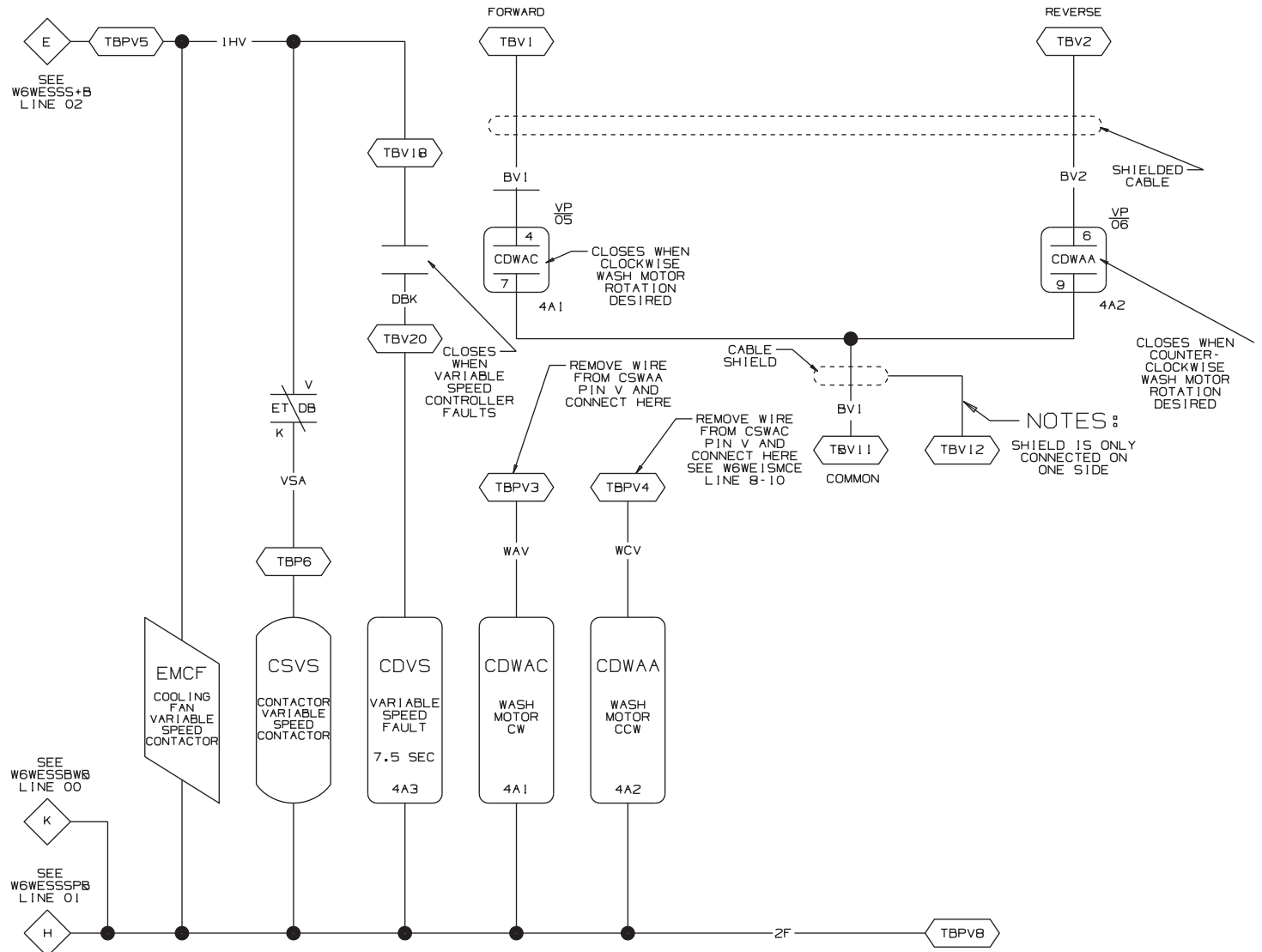
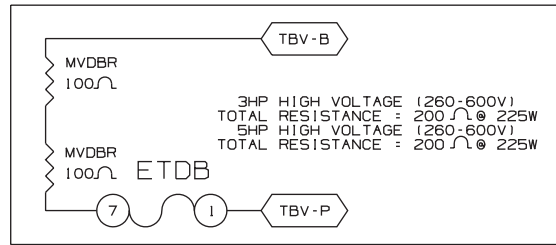
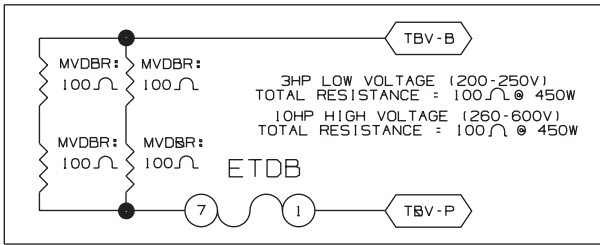
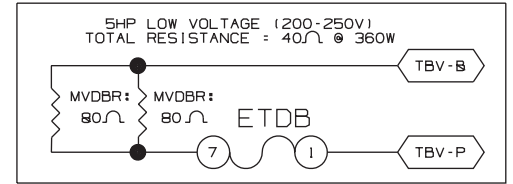
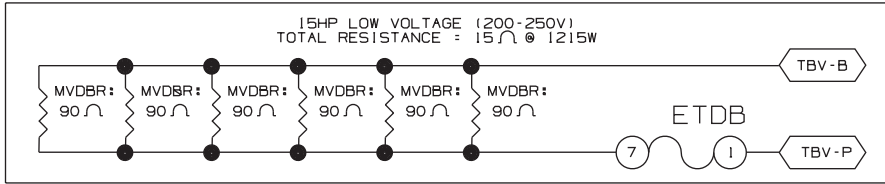
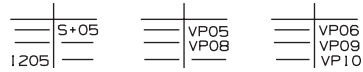
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

- NOTES:
1. REMOVE (J1) FOR MACHINES WITH AUTOSPOT.
 2. RELAYS CRPLA IS LOCATED IN AUTOSPOT CONTROL BOX.
 3. 1MTA 16 IS LOCATED ON B016-1 (16 OUTPUT BOARD).

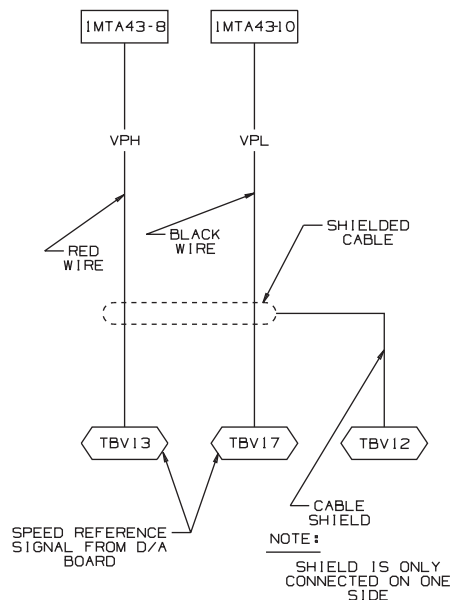
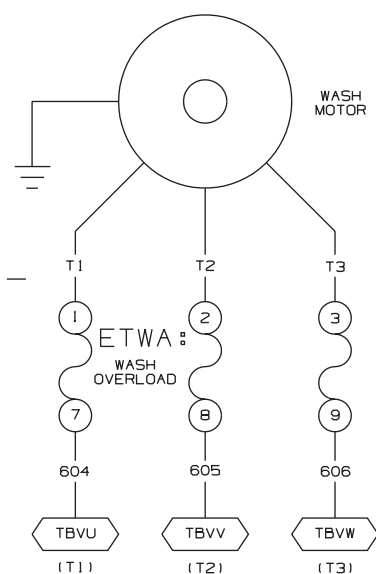
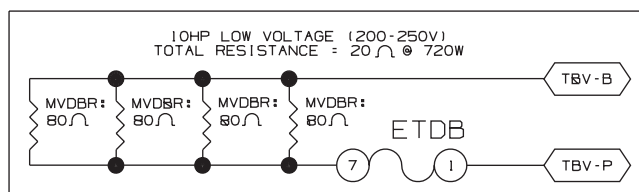
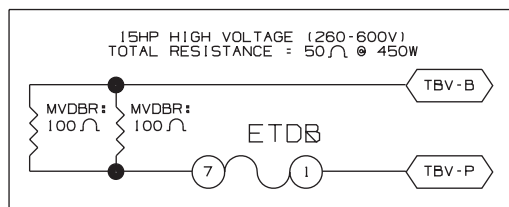
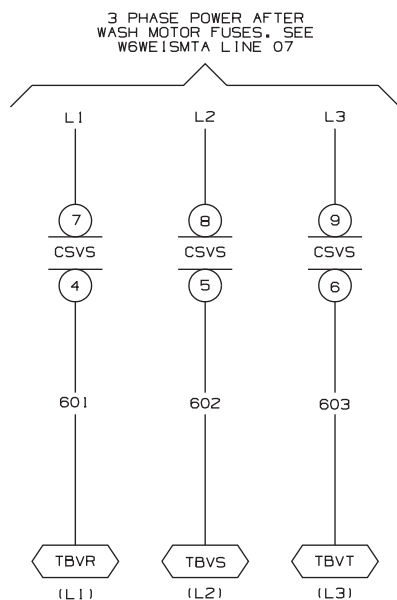
10 11 12 13 14 15 16 17

W6WESSPB
2005265B

W6WESSPB
2005265B



00 01 02 03 04 05 06 07 08 09 10 11



NOTES:

1. TBV IS LOCATED IN VARIABLE SPEED CONTROLLER BOX ON VARIABLE SPEED CONTROLLER.
2. TBVP IS LOCATED IN VARIABLE SPEED CONTROLLER BOX.
3. IMTA43 IS LOCATED ON BDA-1 (DIGITAL TO ANALOG BOARD).

W6WESSVP

MARK II
SCHEMATIC: OPTIONAL VARIABLE SPEED
CONTROLLER
PELLERIN MILNOR CORPORATION

HOW TO USE THE SIGNAL ROUTING TABLE

APPLICABILITY: Machines with serial type microprocessor controllers.

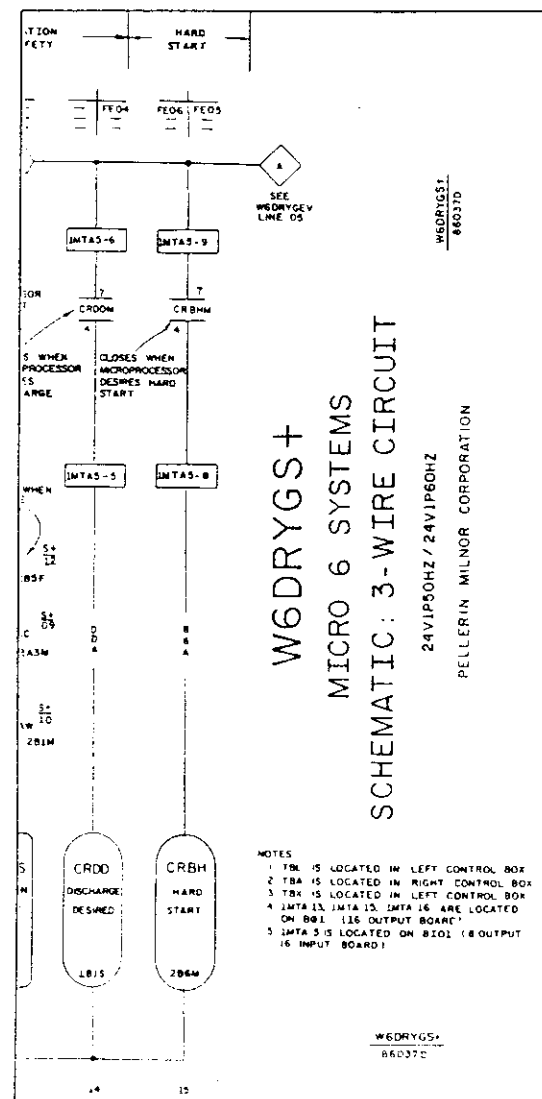
SCOPE: Purpose for, how to read table.

The signal routing table supplements the schematic set provided with your machine and aids in troubleshooting. While the schematics depict each electrical circuit conceptually, they do not show all of the wires and connectors in the circuit. For example, the portion of the schematic W6DRYGS+ shown below, shows a circuit "B6A". From the schematic, it can be determined that this circuit causes the hard start relay to energize (CRBH) when output relay CRBHM is energized. However, the schematic does not identify intermediate connections between these two components. By referring to the signal routing table, any such connection points may be determined and located on your machine. (See portion of Signal Routing Table on next page.)

To use the signal routing table:

1. Locate the name of the circuit in column 1, "WIRE". (This circuit name is physically printed on the wires used in this circuit.) As you can see, each circuit name appears on two or more lines, and all lines that have the same circuit name are grouped together. Each line of the Signal Routing Table represents one of the connection points associated with that specific circuit group. Because many circuits are parallel (branching to two or more destinations), the order in which the lines appear is not necessarily the order in which connectors within the circuit actually occur.

NOTE: Occasionally, two different circuits will have the same name. Nevertheless, these can be distinguished because each circuit is separately grouped in the routing table. As with circuits of different names, the connections in one group are not common to those in any other group. They are only common within their own group.



PART OF SCHEMATIC W6DRYGS+
SHOWING CIRCUIT B6A

2. Identify in column 2 the connector name and the pin number on that connector that are part of the circuit. The locations of mounted connectors (those mounted in an electric box) are depicted on the layout tag found in the electric box. The component name from column 2 is shown on this tag. Free hanging connectors are labeled with an identification sticker affixed to the connector itself.
3. Column 3, "SCHEMATIC AND LINE NO." shows the principal location in the schematic set where the connector appears, if it is shown on the schematics at all. Since the first five characters of the schematic numbers (the model prefix) are the same for all schematics within the schematic set, only the characters that follow the model prefix and distinguish the individual schematics are shown here. The schematic line numbers listed here are printed along the bottom of each schematic.
4. Determine from column 4, the general location of the connector on the machine.
5. If the connector is a relay socket, column 5 provides another means of locating this connection. If the socket is on a relay tray, the three or four digit code shown here is interpreted as follows:

Example: 1 N 1 T

Function Class (ie: T=Temperature)
 Column
 Row
 Relay Tray Number

SIGNAL ROUTING TABLE FOR GAS DRYER WITH MICRO CONTROLS				
WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
B64	CSBN V	FE 05	HIGH VOLTAGE ENCL-BOTTOM PANEL	2B6M
B64	CRBH 4	FE 05	HIGH VOLTAGE ENCL-TOP PANEL	
B64	WCX 14		HIGH VOLTAGE ENCL-TOP PANEL	
B6A	CRBH A	S+ 15	HIGH VOLTAGE ENCL-TOP PANEL	2B6M
B6A	WCL 06		HIGH VOLTAGE ENCL-TOP PANEL	
B6A	CRBHM 4	S+ 15	LOW VOLTAGE ENCL-BOTTOM PANEL	
B6A	MTA5 8	S+ 15	LOW VOLTAGE ENCL-BOTTOM PANEL	
B6A	WCB 28		LOW VOLTAGE ENCL-TOP PANEL	
B6A	WCR 06		LOW VOLTAGE ENCL-TOP PANEL	
BHA	CSBH A	FE 05	HIGH VOLTAGE ENCL-BOTTOM PANEL	
BHA	CSBN K	FE 05	HIGH VOLTAGE ENCL-BOTTOM PANEL	

PART OF SIGNAL ROUTING TABLE W6DRYGR
 SHOWING CIRCUIT B6A

SIGNAL ROUTING TABLE FOR
SERIAL
STAPHGUARDS

Page 1
DATE 04/05/88
W6WESSRT/88062

WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
1HF	CRASI 4	SSP01	AUTOSOFT CONTROL BOX	4B2M
1HF	EF37 1	SPS**	HIGH VOLTAGE CONTROL BOX	
1HF	SHSMA 8	SSP03	SWITCH PANEL (SOIL)	
1HF	SMPLC 7	SD 02	MOUNTED ON MACHINE	
1HF	SMPLS 7	SD 05	MOUNTED ON MACHINE	
1HF	TBR E	SSP02	LOW VOLTAGE CONTROL BOX	
1HF	WCJ 5		LOW VOLTAGE CONTROL BOX	
1HF	WCN 5		AUTOSPOT SWITCH PANEL	
1HF	WCR 1		LOW VOLTAGE CONTROL BOX	
1HF	WCX 35		AUTOSPOT & HIGH VOLTAGE C/BOX	
1HV	1MT13 6	SCS06	LOW VOLTAGE CONTROL BOX	
1HV	1MT14 4	SS+04	LOW VOLTAGE CONTROL BOX	
1HV	1MT15 4	SEV05	LOW VOLTAGE CONTROL BOX	
1HV	1MT15 5	SEV04	LOW VOLTAGE CONTROL BOX	
1HV	1MT15 7	SEV03	LOW VOLTAGE CONTROL BOX	
1HV	1MT16 2	SSP15	LOW VOLTAGE CONTROL BOX	
1HV	1MT16 3	SSP04	LOW VOLTAGE CONTROL BOX	
1HV	1MT16 8	SEV06	LOW VOLTAGE CONTROL BOX	
1HV	1MTA5 4	SMC13	LOW VOLTAGE CONTROL BOX	
1HV	1MTP 1	SBW01	LOW VOLTAGE CONTROL BOX	
1HV	CLPCC 9	SCS01	LOW VOLTAGE CONTROL BOX	
1HV	CRBRM 7	SEV03	LOW VOLTAGE CONTROL BOX	
1HV	CRCCR 7	SCS08	AUTOSPOT CONTROL BOX	
1HV	CRCLM 7	SSP04	LOW VOLTAGE CONTROL BOX	
1HV	CRDRM 7	SEV06	LOW VOLTAGE CONTROL BOX	
1HV	CRPCC 4	SS+01	LOW VOLTAGE CONTROL BOX	
1HV	CRPCC 9	SCS03	LOW VOLTAGE CONTROL BOX	
1HV	CRPCC 9	SCS05	LOW VOLTAGE CONTROL BOX	
1HV	CRPDM 7	SSP15	LOW VOLTAGE CONTROL BOX	
1HV	CRS+S 8	SS+02	HIGH VOLTAGE CONTROL BOX	
1HV	CRS+S 8	SS+03	HIGH VOLTAGE CONTROL BOX	
1HV	CRS+S 9	SSP07	HIGH VOLTAGE CONTROL BOX	
1HV	CRSG 7	SS+04	LOW VOLTAGE CONTROL BOX	
1HV	CRSP 9	SD 11	LOW VOLTAGE CONTROL BOX	
1HV	CRTM 7	SCS06	LOW VOLTAGE CONTROL BOX	
1HV	CRTM 7	SCS07	LOW VOLTAGE CONTROL BOX	
1HV	CRVCM 7	SEV05	LOW VOLTAGE CONTROL BOX	
1HV	CRVHM 7	SEV04	LOW VOLTAGE CONTROL BOX	
1HV	CRW2M 7	SMC12	LOW VOLTAGE CONTROL BOX	
1HV	CRW2M 7	SMC13	LOW VOLTAGE CONTROL BOX	
1HV	CSE2L V	SSP14	HIGH VOLTAGE CONTROL BOX	
1HV	ETE2 K		HIGH VOLTAGE CONTROL BOX	
1HV	SHCCR 7	SCS09	SWITCH PANEL (CLEAN)	
1HV	SHS+ 7	SS+10	SWITCH PANEL (SOIL)	
1HV	SHSMA 2	SSP03	SWITCH PANEL (SOIL)	
1HV	TBR A	SSP06	LOW VOLTAGE CONTROL BOX	
1HV	TBR F	SSP07	LOW VOLTAGE CONTROL BOX	

SIGNAL ROUTING TABLE FOR
SERIAL
STAPHGUARDS

Page 2
DATE 04/05/88
W6WESSRT/88062

WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
1HV	TBR G	SSP08	LOW VOLTAGE CONTROL BOX	
1HV	WCC 17		LOW VOLTAGE CONTROL BOX	
1HV	WCG 17		SWITCH PANEL (CLEAN)	
1HV	WCJ 10		LOW VOLTAGE CONTROL BOX	
1HV	WCN 10		AUTOSPOT SWITCH PANEL	
1HV	WCR 15		LOW VOLTAGE CONTROL BOX	
1HV	WCX 25		AUTOSPOT & HIGH VOLTAGE C/BOX	
2F	1MTD 3	SBW02	LOW VOLTAGE CONTROL BOX	
2F	1MTD 4	SBW02	LOW VOLTAGE CONTROL BOX	
2F	1MTP 3	SBW02	LOW VOLTAGE CONTROL BOX	
2F	1MTP 5	SBW00	LOW VOLTAGE CONTROL BOX	
2F	CDEXN B	SSP14	LOW VOLTAGE CONTROL BOX	1A5S
2F	CDS+N B	SS+03	LOW VOLTAGE CONTROL BOX	1B1S
2F	CLDCC A	SD 02	LOW VOLTAGE CONTROL BOX	1B6S
2F	CLDCC A	SS+08	LOW VOLTAGE CONTROL BOX	1B6S
2F	CLDCD A	SD 01	AUTOSPOT CONTROL BOX	4C1S
2F	CLDCD A	SS+09	AUTOSPOT CONTROL BOX	4C1S
2F	CLPCC A	SCS06	LOW VOLTAGE CONTROL BOX	1B2C
2F	CLPCC A	SCS08	LOW VOLTAGE CONTROL BOX	1B2C
2F	CRASA B	SAS05	AUTOSPOT CONTROL BOX	4A1M
2F	CRASB B	SAS06	AUTOSPOT CONTROL BOX	4A2M
2F	CRASI B	SAS13	AUTOSPOT CONTROL BOX	4B2M
2F	CRASJ B	SAS11	AUTOSPOT CONTROL BOX	4B1M
2F	CRASK B	SAS12	AUTOSPOT CONTROL BOX	4C4M
2F	CRASL B	SAS07	AUTOSPOT CONTROL BOX	4A3M
2F	CRASM B	SAS08	AUTOSPOT CONTROL BOX	4C3M
2F	CRASS B	SAS09	AUTOSPOT CONTROL BOX	4A4M
2F	CRAST B	SAS10	AUTOSPOT CONTROL BOX	4A5M
2F	CRCCR B	SCS09	AUTOSPOT CONTROL BOX	4C2C
2F	CRPCC B	SCS01	LOW VOLTAGE CONTROL BOX	1A2C
2F	CRPCD B	SCS00	AUTOSPOT CONTROL BOX	4B3C
2F	CRPLA B	SSP03	AUTOSPOT CONTROL BOX	4C5D
2F	CRPLC B	SD 03	LOW VOLTAGE CONTROL BOX	1A1D
2F	CRPLS B	SD 05	LOW VOLTAGE CONTROL BOX	1A3D
2F	CRS+ B	SS+07	LOW VOLTAGE CONTROL BOX	1A6S
2F	CRS+S B	SS+06	HIGH VOLTAGE CONTROL BOX	3A1S
2F	CRSOC B	SD 08	LOW VOLTAGE CONTROL BOX	1B4S
2F	CRSOE B	SD 09	AUTOSPOT CONTROL BOX	4B5S
2F	CRSOS B	SD 07	LOW VOLTAGE CONTROL BOX	1B3S
2F	CRSOT B	SD 06	AUTOSPOT CONTROL BOX	4B4S
2F	CRSP B	SSP06	LOW VOLTAGE CONTROL BOX	1A4S
2F	CRSS B	SS+10	LOW VOLTAGE CONTROL BOX	1B5S
2F	CSDR B	SMC11	HIGH VOLTAGE CONTROL BOX	
2F	CSE1 B	SMC07	HIGH VOLTAGE CONTROL BOX	
2F	CSE2 B	SMC08	HIGH VOLTAGE CONTROL BOX	
2F	CSJC B	SMC15	AUTOSPOT CONTROL BOX	
2F	CSW2L B	SMC12	2SPD WASH CONTROL BOX	

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WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
2F	CSW2N B	SMC13	2SPD WASH CONTROL BOX	
2F	CSWAA B	SMC09	HIGH VOLTAGE CONTROL BOX	
2F	CSWAC B	SMC10	HIGH VOLTAGE CONTROL BOX	
2F	EBPCC B	SD 12	SWITCH PANEL (CLEAN)	
2F	EBSG B	SS+05	SWITCH PANEL (SOIL)	
2F	ELASC B	SAS02	SWITCH PANEL (CLEAN)	
2F	ELASS B	SAS03	SWITCH PANEL (SOIL)	
2F	ELPCG B	SCS02	SWITCH PANEL (CLEAN)	
2F	ELPCR B	SCS04	SWITCH PANEL (CLEAN)	
2F	ELPSG B	SCS05	SWITCH PANEL (SOIL)	
2F	ELPSR B	SCS03	SWITCH PANEL (SOIL)	
2F	ELSG B	SS+04	SWITCH PANEL (SOIL)	
2F	EX37 X*	SPS**	HIGH VOLTAGE CONTROL BOX	
2F	EXAS H*	SMC16	AUTOSPOT CONTROL BOX	
2F	TBA B	SMC15	HIGH VOLTAGE CONTROL BOX	
2F	TBL 3	SMC02	HIGH VOLTAGE CONTROL BOX	
2F	TBL 8	SMC03	HIGH VOLTAGE CONTROL BOX	
2F	TBR B	SMC05	LOW VOLTAGE CONTROL BOX	
2F	TBR D	SMC06	LOW VOLTAGE CONTROL BOX	
2F	VEAS B	SAS04	AIR VALVE ASSEMBLY	
2F	VEB2R B	SSP02	AIR VALVE ASSEMBLY	
2F	VEC01 B	SCF01	MOUNTED ON MACHINE	
2F	VEC01 B	SCL04	MOUNTED ON MACHINE	
2F	VEC01AB	SCL05	MOUNTED ON MACHINE	
2F	VEC02 B	SCF03	MOUNTED ON MACHINE	
2F	VEC02 B	SCL06	MOUNTED ON MACHINE	
2F	VEC02AB	SCL07	MOUNTED ON MACHINE	
2F	VEC03 B	SCF04	MOUNTED ON MACHINE	
2F	VEC03 B	SCL08	MOUNTED ON MACHINE	
2F	VEC04 B	SCF05	MOUNTED ON MACHINE	
2F	VEC04 B	SCL09	MOUNTED ON MACHINE	
2F	VEC05 B	SCF06	MOUNTED ON MACHINE	
2F	VEC05 B	SCL10	MOUNTED ON MACHINE	
2F	VEC06 B	SCL11	MOUNTED ON MACHINE	
2F	VECFL B	SCL12	MOUNTED ON MACHINE	
2F	VEDRR B	SEV09	AIR VALVE ASSEMBLY	
2F	VEDRS B	SEV06	AIR VALVE ASSEMBLY	
2F	VEPCC B	SD 04	AIR VALVE ASSEMBLY	
2F	VEPLC B	SD 13	AIR VALVE ASSEMBLY	
2F	VEPLS B	SD 11	AIR VALVE ASSEMBLY	
2F	VEPPI B	SS+01	AIR VALVE ASSEMBLY	
2F	VESTM B	SEV07	AIR VALVE ASSEMBLY	
2F	VETCW B	SEV10	AIR VALVE ASSEMBLY	
2F	VEWBR B	SEV03	AIR VALVE ASSEMBLY	
2F	VEWCL B	SSP04	AIR VALVE ASSEMBLY	
2F	VEWPD B	SSP15	AIR VALVE ASSEMBLY	
2F	VEWVC B	SEV05	AIR VALVE ASSEMBLY	
2F	VEWVH B	SEV04	AIR VALVE ASSEMBLY	

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WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
2F	VEWVX B	SEV08	AIR VALVE ASSEMBLY	
2F	WC2 3		HIGH VOLTAGE CONTROL BOX	
2F	WCC 9		LOW VOLTAGE CONTROL BOX	
2F	WCG 9		SWITCH PANEL (CLEAN)	
2F	WCJ 12		LOW VOLTAGE CONTROL BOX	
2F	WCN 12		AUTOSPOT SWITCH PANEL	
2F	WCQ 14		AIR VALVE ASSEMBLY	
2F	WCR 2		LOW VOLTAGE CONTROL BOX	
2F	WCS 6		HIGH VOLTAGE CONTROL BOX	
2F	WCV 14		LOW VOLTAGE CONTROL BOX	
2F	WCX 36		AUTOSPOT & HIGH VOLTAGE C/BOX	
2G	1MT11 9	SBW12	LOW VOLTAGE CONTROL BOX	
2G	1MT1110	SBW12	LOW VOLTAGE CONTROL BOX	
2G	1MT31 9	SBW05	PROCESSOR CONTROL BOX	
2G	1MT3110	SBW04	PROCESSOR CONTROL BOX	
2G	1MT40 5	SBW09	PROCESSOR CONTROL BOX	
2G	1MT51 9	SBW12	LOW VOLTAGE CONTROL BOX	
2G	1MT51 10	SBW12	LOW VOLTAGE CONTROL BOX	
2G	1MTA1 9	SBW01	LOW VOLTAGE CONTROL BOX	
2G	1MTA110	SBW01	LOW VOLTAGE CONTROL BOX	
2G	2MT11 9	SBW12	LOW VOLTAGE CONTROL BOX	
2G	CRCCR 8	SI 13	AUTOSPOT CONTROL BOX	4C2C
2G	CREXA 7	SEA04	LOW VOLTAGE CONTROL BOX	6A1E
2G	CRS+ 8	SI05	LOW VOLTAGE CONTROL BOX	1A6S
2G	CRSP 8	SI04	LOW VOLTAGE CONTROL BOX	1A4S
2G	SHEAK 7	SEA03	LOW VOLTAGE CONTROL BOX	
2G	SHSG 7	SI 11	SWITCH PANEL (SOIL)	
2G	SKPR 7	SI 12	SWITCH PANEL (SOIL)	
2G	SPBR 7	SI 10	AIR VALVE ASSEMBLY	
2G	SPLL1 7	SI 07	MOUNTED ON MACHINE	
2G	SPLL3 7	SI 08	MOUNTED ON MACHINE	
2G	SPLLL 7	SI 06	MOUNTED ON MACHINE	
2G	TBS Y	SI 02	LOW VOLTAGE CONTROL BOX	
2G	WCP 6		LOW VOLTAGE & PROCESSOR C/BOX	
2G	WCX 36		PROCESSOR CONTROL BOX	
2LA	CSW2L A	SMC12	2SPD WASH CONTROL BOX	
2LA	CSW2N K	SMC12	2SPD WASH CONTROL BOX	
2LK	CSE1R V	SSP14	HIGH VOLTAGE CONTROL BOX	
2LK	CSE2L K	SSP14	HIGH VOLTAGE CONTROL BOX	
2NA	CSW2L K	SMC13	2SPD WASH CONTROL BOX	
2NA	CSW2N A	SMC13	2SPD WASH CONTROL BOX	
342	1MT34 2	SBW06	PROCESSOR CONTROL BOX	
342	1MT39 2	SBW09	PROCESSOR CONTROL BOX	

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WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
343	1MT34 3	SBW05	PROCESSOR CONTROL BOX	
343	1MT39 3	SBW09	PROCESSOR CONTROL BOX	
344	1MT34 4	SBW06	PROCESSOR CONTROL BOX	
344	1MT39 5	SBW09	PROCESSOR CONTROL BOX	
345	1MT34 5	SBW05	PROCESSOR CONTROL BOX	
345	1MT39 4	SBW09	PROCESSOR CONTROL BOX	
346	1MT34 6	SBW06	PROCESSOR CONTROL BOX	
346	1MT39 6	SBW09	PROCESSOR CONTROL BOX	
347	1MT34 7	SBW05	PROCESSOR CONTROL BOX	
347	1MT39 7	SBW09	PROCESSOR CONTROL BOX	
361	1MT36 1	KPD14	PROCESSOR CONTROL BOX	
361	3MTD1 7	KPD14	PROCESSOR CONTROL BOX	
361	WCX 9		PROCESSOR CONTROL BOX	
362	1MT36 2	KPD13	PROCESSOR CONTROL BOX	
362	3MTD1 6	KPD13	PROCESSOR CONTROL BOX	
362	WCX 10		PROCESSOR CONTROL BOX	
363	1MT36 3	KPD12	PROCESSOR CONTROL BOX	
363	3MTD2 9	KPD12	PROCESSOR CONTROL BOX	
363	WCX 11		PROCESSOR CONTROL BOX	
364	1MT36 4	KPD11	PROCESSOR CONTROL BOX	
364	3MTD2 8	KPD11	PROCESSOR CONTROL BOX	
364	WCX 12		PROCESSOR CONTROL BOX	
365	1MT36 5	KPD10	PROCESSOR CONTROL BOX	
365	3MTD2 6	KPD10	PROCESSOR CONTROL BOX	
365	WCX 13		PROCESSOR CONTROL BOX	
370	1MT3710	KPD10	PROCESSOR CONTROL BOX	
370	3MTD1 5	KPD10	PROCESSOR CONTROL BOX	
370	WCX 14		PROCESSOR CONTROL BOX	
373	1MT37 3	KPD17	PROCESSOR CONTROL BOX	
373	3MTD1 3	KPD17	PROCESSOR CONTROL BOX	
374	1MT37 4	KPD16	PROCESSOR CONTROL BOX	
374	3MTD1 2	KPD16	PROCESSOR CONTROL BOX	
374	WCX 16			
375	1MT37 5	KPD15	PROCESSOR CONTROL BOX	

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WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
375	3MTD1 2	KPD15	PROCESSOR CONTROL BOX	
375	WCX 19		PROCESSOR CONTROL BOX	
376	1MT37 6	KPD14	PROCESSOR CONTROL BOX	
376	3MTD2 2	KPD14	PROCESSOR CONTROL BOX	
376	WCX 18		PROCESSOR CONTROL BOX	
377	1MT37 7	KPD13	PROCESSOR CONTROL BOX	
377	3MTD2 7	KPD13	PROCESSOR CONTROL BOX	
377	WCX 19		PROCESSOR CONTROL BOX	
378	1MT37 8	KPD12	PROCESSOR CONTROL BOX	
378	3MTD2 4	KPD12	PROCESSOR CONTROL BOX	
378	WCX 20		PROCESSOR CONTROL BOX	
379	1MT37 9	KPD11	PROCESSOR CONTROL BOX	
379	3MTD2 5	KPD11	PROCESSOR CONTROL BOX	
379	WCX 21		PROCESSOR CONTROL BOX	
504	CSE2 4	SMT13	HIGH VOLTAGE CONTROL BOX	
504	ETE2 7	SMT13	HIGH VOLTAGE CONTROL BOX	
505	CSE2 5	SMT14	HIGH VOLTAGE CONTROL BOX	
505	ETE2 8	SMT14	HIGH VOLTAGE CONTROL BOX	
506	CSE2 6	SMT15	HIGH VOLTAGE CONTROL BOX	
506	ETE3 9	SMT15	HIGH VOLTAGE CONTROL BOX	
563	1MT56 3	SBW12	LOW VOLTAGE CONTROL BOX	
563	1MT57 3	SBW12	LOW VOLTAGE CONTROL BOX	
566	1MT56 6	SBW12	LOW VOLTAGE CONTROL BOX	
566	1MT57 6	SBW13	LOW VOLTAGE CONTROL BOX	
601	CSWAA 7	SMT08	HIGH VOLTAGE CONTROL BOX	
601	CSWAC 7	SMT10	HIGH VOLTAGE CONTROL BOX	
601	EF1 1	SMT08	HIGH VOLTAGE CONTROL BOX	
602	CSWAA 8	SMT09	HIGH VOLTAGE CONTROL BOX	
602	CSWAC 8	SMT11	HIGH VOLTAGE CONTROL BOX	
602	EF1 2	SMT09	HIGH VOLTAGE CONTROL BOX	
603	CSWAA 9	SMT09	HIGH VOLTAGE CONTROL BOX	
603	CSWAC 9	SMT12	HIGH VOLTAGE CONTROL BOX	
603	EF1 3	SMT09	HIGH VOLTAGE CONTROL BOX	
604	CSWAA 4	SMT08	HIGH VOLTAGE CONTROL BOX	
604	CSWAC 6	SMT12	HIGH VOLTAGE CONTROL BOX	

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WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
604	ETWA 7	SMT08	HIGH VOLTAGE CONTROL BOX	
605	CSWAA 5	SMT09	HIGH VOLTAGE CONTROL BOX	
605	CSWAC 6	SMT11	HIGH VOLTAGE CONTROL BOX	
605	ETWA 9	SMT09	HIGH VOLTAGE CONTROL BOX	
606	CSWAA 6	SMT09	HIGH VOLTAGE CONTROL BOX	
606	CSWAC 4	SMT10	HIGH VOLTAGE CONTROL BOX	
606	ETWA 9	SMT09	HIGH VOLTAGE CONTROL BOX	
701	CSE1 7	SMT04	HIGH VOLTAGE CONTROL BOX	
701	EF2 1	SMT04	HIGH VOLTAGE CONTROL BOX	
702	CSE1 8	SMT05	HIGH VOLTAGE CONTROL BOX	
702	EF2 3	SMT05	HIGH VOLTAGE CONTROL BOX	
703	CSE1 9	SMT06	HIGH VOLTAGE CONTROL BOX	
703	EF2 3	SMT06	HIGH VOLTAGE CONTROL BOX	
704	CSE1 4	SMT04	HIGH VOLTAGE CONTROL BOX	
704	ETE1 7	SMT04	HIGH VOLTAGE CONTROL BOX	
705	CSE1 5	SMT05	HIGH VOLTAGE CONTROL BOX	
705	ETE1 8	SMT05	HIGH VOLTAGE CONTROL BOX	
706	CSE1 6	SMT06	HIGH VOLTAGE CONTROL BOX	
706	ETE1 9	SMT06	HIGH VOLTAGE CONTROL BOX	
717	EF37 7	SPS**	HIGH VOLTAGE CONTROL BOX	
717	EX37 X*	SPS**	HIGH VOLTAGE CONTROL BOX	
717	TBL 1	SPS**	HIGH VOLTAGE CONTROL BOX	
801	CSDR 7	SMT01	HIGH VOLTAGE CONTROL BOX	
801	EF3 1	SMT01	HIGH VOLTAGE CONTROL BOX	
802	CSDR 8	SMT02	HIGH VOLTAGE CONTROL BOX	
802	EF3 2	SMT02	HIGH VOLTAGE CONTROL BOX	
803	CSDR 9	SMT03	HIGH VOLTAGE CONTROL BOX	
803	EF3 3	SMT03	HIGH VOLTAGE CONTROL BOX	
804	CSDR 4	SMT01	HIGH VOLTAGE CONTROL BOX	
804	ETDR 7	SMT01	HIGH VOLTAGE CONTROL BOX	
805	CSDR 5	SMT02	HIGH VOLTAGE CONTROL BOX	
805	ETDR 8	SMT02	HIGH VOLTAGE CONTROL BOX	
806	CSDR 6	SMT03	HIGH VOLTAGE CONTROL BOX	

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WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
806	ETDR 9	SMT03	HIGH VOLTAGE CONTROL BOX	
901	CSAS 9	SMT04	AUTOSPOT CONTROL BOX	
901	EF4 3	SMT00	AUTOSPOT CONTROL BOX	
902	CSAS 8	SMT03	AUTOSPOT CONTROL BOX	
902	EF4 3	SMT00	AUTOSPOT CONTROL BOX	
903	CSAS 7	SMT02	AUTOSPOT CONTROL BOX	
903	EF4 1	SMT00	AUTOSPOT CONTROL BOX	
A11	CRS+S 1	SS+05	HIGH VOLTAGE CONTROL BOX	3A1S
A11	CRSS 3	SS+04	LOW VOLTAGE CONTROL BOX	1B5S
A11	EBSG A	SS+05	SWITCH PANEL (SOIL)	
A11	ELSG A	SS+04	SWITCH PANEL (SOIL)	
A11	TBR P	SS+05	LOW VOLTAGE CONTROL BOX	
A11	WCJ 11		LOW VOLTAGE CONTROL BOX	
A11	WCN 11		AUTOSPOT SWITCH PANEL	
A11	WCR 22		LOW VOLTAGE CONTROL BOX	
A12	CRASA 2	SAS09	AUTOSPOT CONTROL BOX	4A1M
A12	CRASL 8	SAS09	AUTOSPOT CONTROL BOX	4A3M
A12	SCAS2 1	SAS10	MOUNTED ON MACHINE	
A12	SCAS3 1	SAS11	MOUNTED ON MACHINE	
A12	SCAS5 1	ASC04	MOUNTED ON MACHINE	
A12	SCAS6 1	ASC05	MOUNTED ON MACHINE	
A12	WCZ 5		AUTOSPOT CONTROL BOX	
A14	1MTA410	SEA04	LOW VOLTAGE CONTROL BOX	
A14	CRASA 4	SAS05	AUTOSPOT CONTROL BOX	4A1M
A14	CRASB 4	SAS06	AUTOSPOT CONTROL BOX	4A2M
A14	CRASB A	SAS06	AUTOSPOT CONTROL BOX	4A2M
A14	CREXA 4	SEA04	LOW VOLTAGE CONTROL BOX	6A1E
A14	CRPLC 4	SD 12	LOW VOLTAGE CONTROL BOX	1A1D
A14	EBPCC A	SD 12	SWITCH PANEL (CLEAN)	
A14	SHEAK 4	SEA03	LOW VOLTAGE CONTROL BOX	
A14	TBR Q	SD 12	LOW VOLTAGE CONTROL BOX	
A14	WCC 15		LOW VOLTAGE CONTROL BOX	
A14	WCG 15		SWITCH PANEL (CLEAN)	
A14	WCP 1		LOW VOLTAGE & PROCESSOR C/BOX	
A15	CRPLC 5	SD 07	LOW VOLTAGE CONTROL BOX	1A1D
A15	SHSOS 7	SD 07	SWITCH PANEL (SOIL)	
A15	WCJ 6		LOW VOLTAGE CONTROL BOX	
A15	WCN 6		AUTOSPOT SWITCH PANEL	
A16	2MT15 6	SEA07	LOW VOLTAGE CONTROL BOX	4C2C
A16	CRCCR A	SCS09	AUTOSPOT CONTROL BOX	

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A16	CREXM 1	SEA07	LOW VOLTAGE CONTROL BOX	1A1D
A16	CRPLC 6	SCS09	LOW VOLTAGE CONTROL BOX	1A6S
A16	CRS+ 1	SEA06	LOW VOLTAGE CONTROL BOX	
A16	TBA C	SEA07	LOW VOLTAGE CONTROL BOX	
A16	TBS V	SCS09	LOW VOLTAGE CONTROL BOX	
A16	WCX 28		AUTOSPOT CONTROL BOX	
A16	WCY 1		LOW VOLTAGE CONTROL BOX	
A17	CRASA 7	SAS05	AUTOSPOT CONTROL BOX	4A1M
A17	CRASB 7	SAS06	AUTOSPOT CONTROL BOX	4A2M
A17	CRASI 9	SAS04	AUTOSPOT CONTROL BOX	2B2M
A17	CRSAJ A	SEV01	AUTOSPOT CONTROL BOX	2B2M
A17	CRASK A	SAS12	AUTOSPOT CONTROL BOX	4C4M
A17	CRASL 7	SAS07	AUTOSPOT CONTROL BOX	4A3M
A17	CRPLA 4	SAS03	AUTOSPOT CONTROL BOX	4C5D
A17	CRSOC 9	ASC02	LOW VOLTAGE CONTROL BOX	1B4S
A17	CRSOC 9	SAS09	LOW VOLTAGE CONTROL BOX	1B4S
A17	WCX 3		AUTOSPOT & HIGH VOLTAGE C/BOX	
A17	WCY 21		LOW VOLTAGE CONTROL BOX	
A18	CRPLC 8	SD 07	LOW VOLTAGE CONTROL BOX	1A1D
A18	SHSOC 1	SD 07	SWITCH PANEL (CLEAN)	
A18	WCC 3		LOW VOLTAGE CONTROL BOX	
A18	WCG 3		SWITCH PANEL (CLEAN)	
A19	2MT15 5	SEA07	LOW VOLTAGE CONTROL BOX	
A19	CREXM 7	SEA07	LOW VOLTAGE CONTROL BOX	
A19	CRS+ 7	SEA06	LOW VOLTAGE CONTROL BOX	1A6S
A19	TBA A	SEA08	LOW VOLTAGE CONTROL BOX	
A1A	CRASA A	SAS05	AUTOSPOT CONTROL BOX	4A1M
A1A	CREXA A	SEA02	LOW VOLTAGE CONTROL BOX	6A1E
A1A	CRPLC A	SD 03	LOW VOLTAGE CONTROL BOX	1A1D
A1A	CRPLS 9	SD 04	LOW VOLTAGE CONTROL BOX	1A3D
A1A	CRSOC 8	SD 04	LOW VOLTAGE CONTROL BOX	1B4S
A1A	SCAS1 4	SAS04	MOUNTED ON MACHINE	
A1A	SCAS4 4	SAS05	MOUNTED ON MACHINE	
A1A	SMPLC 4	SD 02	MOUNTED ON MACHINE	
A1A	TBA D	SEA02	LOW VOLTAGE CONTROL BOX	
A1A	TBR J	SD 03	LOW VOLTAGE CONTROL BOX	
A1A	WCZ 1		AUTOSPOT CONTROL BOX	
A1B	CREXA B	SEA02	LOW VOLTAGE CONTROL BOX	6A1E
A1B	TBA B	SEA01	LOW VOLTAGE CONTROL BOX	
A1M	CRASA 8	SAS08	AUTOSPOT CONTROL BOX	4A1M
A1M	CRASA 8	SAS09	AUTOSPOT CONTROL BOX	4A1M
A1M	SHASC14	ASC04	AUTOSPOT CONTROL BOX (CLEAN)	

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A1M	SHASC14	SAS10	AUTOSPOT CONTROL BOX (SOIL)	
A1M	WCC 11		LOW VOLTAGE CONTROL BOX	
A1M	WCG 11		SWITCH PANEL (CLEAN)	
A1M	WCJ 14		LOW VOLTAGE CONTROL BOX	
A1M	WCN 14		AUTOSPOT SWITCH PANEL	
A1M	WCR 30		LOW VOLTAGE CONTROL BOX	
A1M	WCX 8		AUTOSPOT & HIGH VOLTAGE C/BOX	
A1M	WCY 6		LOW VOLTAGE CONTROL BOX	
A21	CRPCC 1	SS+02	LOW VOLTAGE CONTROL BOX	1A2C
A21	CRS+S 5	SS+02	HIGH VOLTAGE CONTROL BOX	3A1S
A21	TBS K	SS+02	LOW VOLTAGE CONTROL BOX	
A21	WCR 20		LOW VOLTAGE CONTROL BOX	
A23	CRPCC 3	SCS05	LOW VOLTAGE CONTROL BOX	1A2C
A23	ELPCR A	SCS04	SWITCH PANEL (CLEAN)	
A23	ELPSG A	SCS05	SWITCH PANEL (SOIL)	
A23	TBS R	SCS05	LOW VOLTAGE CONTROL BOX	
A23	WCC 7		LOW VOLTAGE CONTROL BOX	
A23	WCG 7		SWITCH PANEL (CLEAN)	
A23	WCJ 18		LOW VOLTAGE CONTROL BOX	
A23	WCN 18		AUTOSPOT SWITCH PANEL	
A26	CRPCC 6	SCS03	LOW VOLTAGE CONTROL BOX	1A2C
A26	ELPCG A	SCS02	SWITCH PANEL (CLEAN)	
A26	ELPSR A	SCS03	SWITCH PANEL (SOIL)	
A26	TBS Q	SCS03	LOW VOLTAGE CONTROL BOX	
A26	WCC 6		LOW VOLTAGE CONTROL BOX	
A26	WCG 6		SWITCH PANEL (CLEAN)	
A26	WCJ 19		LOW VOLTAGE CONTROL BOX	
A26	WCN 19		AUTOSPOT SWITCH PANEL	
A27	CRPCC 7	SS+01	LOW VOLTAGE CONTROL BOX	1A2C
A27	CRPCC 7	SS+02	LOW VOLTAGE CONTROL BOX	1A2C
A27	TBS H	SS+01	LOW VOLTAGE CONTROL BOX	
A27	VEPPI A	SS+01	AIR VALVE ASSEMBLY	
A27	WCQ 12		AIR VALVE ASSEMBLY	
A27	WCV 12		LOW VOLTAGE CONTROL BOX	
A28	CRPCC 8	SD 08	LOW VOLTAGE CONTROL BOX	1A2C
A28	SHSOC 4	SD 07	SWITCH PANEL (CLEAN)	
A28	WCC 2		LOW VOLTAGE CONTROL BOX	
A28	WCG 2		SWITCH PANEL (CLEAN)	
A2A	CLPCC 6	SCS01	LOW VOLTAGE CONTROL BOX	1B2C
A2A	CRPCC A	SCS01	LOW VOLTAGE CONTROL BOX	1A2C
A2A	CRPCD A	SCS00	AUTOSPOT CONTROL BOX	4B3C
A2A	WCX 10		AUTOSPOT & HIGH VOLTAGE C/BOX	

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A2A	WCY 19		LOW VOLTAGE CONTROL BOX	
A34	1MT14 2	SS+08	LOW VOLTAGE CONTROL BOX	
A34	CRASA 5	SAS08	AUTOSPOT CONTROL BOX	4A1M
A34	CRASB 8	SAS07	AUTOSPOT CONTROL BOX	4A2M
A34	CRASL 4	SAS07	AUTOSPOT CONTROL BOX	4A3M
A34	CRPLS 4	SS+08	LOW VOLTAGE CONTROL BOX	1A3D
A34	CRS+M 4	SS+08	LOW VOLTAGE CONTROL BOX	
A34	SCAS2 4	SAS10	MOUNTED ON MACHINE	
A34	SCAC3 4	SAS11	MOUNTED ON MACHINE	
A34	SCAS5 4	ASC04	MOUNTED ON MACHINE	
A34	SCAS6 4	ASC05	MOUNTED ON MACHINE	
A34	TBS S	SS+08	LOW VOLTAGE CONTROL BOX	
A34	WCZ 4		AUTOSPOT CONTROL BOX	
A35	CRPLS 5	SD 08	LOW VOLTAGE CONTROL BOX	1A3D
A35	CRSOC A	SD 08	LOW VOLTAGE CONTROL BOX	1B4S
A35	CRSOE A	SD 09	AUTOSPOT CONTROL BOX	4B5S
A35	TBS D	SD 08	LOW VOLTAGE CONTROL BOX	
A35	WCX 16		AUTOSPOT & HIGH VOLTAGE C/BOX	
A35	WCY 4		LOW VOLTAGE CONTROL BOX	
A36	CRASI 1	SSP02	AUTOSPOT CONTROL BOX	4B2M
A36	CRPLA A	SSP03	AUTOSPOT CONTROL BOX	3C5D
A36	CRPLS 6	SD 04	LOW VOLTAGE CONTROL BOX	1A3D
A36	TBS N	SD 04	LOW VOLTAGE CONTROL BOX	
A36	WCX 22		AUTOSPOT & HIGH VOLTAGE C/BOX	
A36	WCY 10		LOW VOLTAGE CONTROL BOX	
A38	CRPCC 5	SD 08	LOW VOLTAGE CONTROL BOX	1A2C
A38	CRPLS 8	SD 08	LOW VOLTAGE CONTROL BOX	1A3D
A3A	CRASB 5	SAS07	AUTOSPOT CONTROL BOX	4A2M
A3A	CRASL A	SAS07	AUTOSPOT CONTROL BOX	4A3M
A3A	CRASM A	SAS08	AUTOSPOT CONTROL BOX	4C3M
A3A	CRPLS A	SD 05	LOW VOLTAGE CONTROL BOX	1A3D
A3A	SMPLS 4	SD 05	MOUNTED ON MACHINE	
A3A	TBR L	SD05	LOW VOLTAGE CONTROL BOX	
A41	CRASS 1	SAS14	AUTOSPOT CONTROL BOX	4A4M
A41	CRSOT 4	SAS14	AUTOSPOT CONTROL BOX	4B4S
A42	CRASS 2	SAS15	AUTOSPOT CONTROL BOX	4A4M
A42	CRSOT 4	SAS15	AUTOSPOT CONTROL BOX	4B4S
A43	CRASS 3	ASC07	AUTOSPOT CONTROL BOX	4A4M
A43	CRSOE 5	SAS15	AUTOSPOT CONTROL BOX	4B5S

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A45	1MTA3 1	SI 04	LOW VOLTAGE CONTROL BOX	1A4S
A45	CRSP 5	SI 04	LOW VOLTAGE CONTROL BOX	
A45	TBT C	SI 04	LOW VOLTAGE CONTROL BOX	
A46	CLPCC 7	SD 11	LOW VOLTAGE CONTROL BOX	1B2C
A46	CLPCC 7	SD 13	LOW VOLTAGE CONTROL BOX	1B2C
A46	CRSO 6	SD 11	LOW VOLTAGE CONTROL BOX	1A4S
A47	CRASS 7	SAS14	AUTOSPOT CONTROL BOX	4A4M
A47	SHASS23	SAS15	AUTOSPOT SWITCH PANEL (SOIL)	
A47	SHWJS 1	SAS17	SWITCH PANEL (SOIL)	
A47	WCJ 17		LOW VOLTAGE CONTROL BOX	
A47	WCN 17		AUTOSPOT SWITCH PANEL	
A47	WCX 20		AUTOSPOT & HIGH VOLTAGE C/BOX	
A47	WCY 8		LOW VOLTAGE CONTROL BOX	
A48	CRASS 8	SAS15	AUTOSPOT CONTROL BOX	4A4M
A48	SHASS24	SAS15	AUTOSPOT SWITCH PANEL (SOIL)	
A48	SHASS25	SAS15	AUTOSPOT SWITCH PANEL (SOIL)	
A48	SHASS26	SAS15	AUTOSPOT SWITCH PANEL (SOIL)	
A48	SHASS27	SAS15	AUTOSPOT SWITCH PANEL (SOIL)	
A48	SHWJS 4	SAS17	SWITCH PANEL (SOIL)	
A48	WCJ 16		LOW VOLTAGE CONTROL PANEL	
A48	WCN 16		AUTOSPOT SWITCH PANEL	
A48	WCX 21		AUTOSPOT & HIGH VOLTAGE C/BOX	
A48	WCY 9		LOW VOLTAGE CONTROL PANEL	
A49	CRASS 9	ASC07	AUTOSPOT CONTROL BOX	4A4M
A49	SHASC23	ASC08	AUTOSPOT SWITCH PANEL (CLEAN)	
A49	SHASC24	ASC08	AUTOSPOT SWITCH PANEL (CLEAN)	
A49	SHASC25	ASC08	AUTOSPOT SWITCH PANEL (CLEAN)	
A49	SJASC26	ASC08	AUTOSPOT SWITCH PANEL (CLEAN)	
A49	SHWJC 1	ASC12	SWITCH PANEL (CLEAN)	
A49	WCC 13		LOW VOLTAGE CONTROL BOX	
A49	WCG 13		SWITCH PANEL (CLEAN)	
A49	WCR 28		LOW VOLTAGE CONTROL BOX	
A49	WCX 6		AUTOSPOT & HIGH VOLTAGE C/BOX	
A4A	CRASL 5	SAS09	AUTOSPOT CONTROL BOX	4A3M
A4A	CRASS A	SAS09	AUTOSPOT CONTROL BOX	4A4M
A4A	CRASL A	SAS10	AUTOSPOT CONTROL BOX	4A5M
A4A	CRSP 4	SSP06	LOW VOLTAGE CONTROL BOX	1A4S
A4A	CRSP A	SSP06	LOW VOLTAGE CONTROL BOX	1A4S
A4A	SMSP 7	SSP04	MOUNTED ON MACHINE	
A4A	TBT B	SSP04	LOW VOLTAGE CONTROL BOX	
A4A	VEWCL A	SSP04	AIR VALVE ASSEMBLY	
A4A	WCQ 2		AIR VALVE ASSEMBLY	
A4A	WCV 2		LOW VOLTAGE CONTROL BOX	

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A51	CRAST 1	ASC09	AUTOSPOT CONTROL BOX	4A5M
A51	CRSOE 4	SAS14	AUTOSPOT CONTROL BOX	4B5S
A53	CRAST 3	SAS02	AUTOSPOT CONTROL BOX	4A5M
A53	CRPCD 7	SAS01	AUTOSPOT CONTROL BOX	4B3C
A53	CRPCD 7	SAS02	AUTOSPOT CONTROL BOX	4B3C
A54	CDEXN 4	SSP04	LOW VOLTAGE CONTROL BOX	1A5S
A54	CRSP 7	SSP06	LOW VOLTAGE CONTROL BOX	1A4S
A54	SMSP 1	SSP04	MOUNTED ON MACHINE	
A54	TBT A	SSP04	LOW VOLTAGE CONTROL BOX	
A56	CDEXN 6	SCS06	LOW VOLTAGE CONTROL BOX	1A5S
A56	CLPCC B	SCS06	LOW VOLTAGE CONTROL BOX	1B2C
A57	1MT16 4	SSP04	LOW VOLTAGE CONTROL BOX	
A57	CDEXN 7	SSP04	LOW VOLTAGE CONTROL BOX	1A5S
A57	CRAST 7	ASC09	AUTOSPOT CONTROL BOX	4A5M
A57	CRCLM 4	SSP04	LOW VOLTAGE CONTROL BOX	
A57	SHASC27	ASC08	AUTOSPOT SWITCH PANEL (CLEAN)	
A57	SHWJC 4	ASC12	SWITCH PANEL (CLEAN)	
A57	TBS E	SSP04	LOW VOLTAGE CONTROL BOX	
A57	WCC 14		LOW VOLTAGE CONTROL BOX	
A57	WCG 14		SWITCH PANEL (CLEAN)	
A57	WCR 27		LOW VOLTAGE CONTROL BOX	
A57	WCX 5		AUTOSPOT & HIGH VOLTAGE C/BOX	
A58	CRASI 7	SSP01	AUTOSPOT CONTROL BOX	4B2M
A58	CRASI 7	SSP02	AUTOSPOT CONTROL BOX	4B2M
A58	CRAST 8	SSP02	AUTOSPOT CONTROL BOX	4A5M
A5A	CDEXN A	SSP14	LOW VOLTAGE CONTROL BOX	1A5S
A5A	CSE1R K	SSP14	HIGH VOLTAGE CONTROL BOX	
A5A	TBL 7	SSP14	HIGH VOLTAGE CONTROL BOX	
A5A	TBS F	SSP14	LOW VOLTAGE CONTROL BOX	
A5A	WCR 16		LOW VOLTAGE CONTROL BOX	
A64	CLDCD 3	SCS07	AUTOSPOT CONTROL BOX	4C1S
A64	CRS+ 4	SCS07	LOW VOLTAGE CONTROL BOX	1A6S
A64	WCR 33		LOW VOLTAGE CONTROL BOX	
A64	WCX 26		AUTOSPOT & HIGH VOLTAGE C/BOX	
A65	1MT38 7	SI05	PROCESSOR CONTROL BOX	
A65	CRS+ 5	SI05	LOW VOLTAGE CONTROL BOX	1A6S
A65	TBT D	SI05	LOW VOLTAGE CONTROL BOX	
A65	WCP 7		LOW VOLTAGE & PROCESSOR C/BOX	

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A66	1MT13 3	SMC08	LOW VOLTAGE CONTROL BOX	
A66	1MT14 6	SEV07	LOW VOLTAGE CONTROL BOX	
A66	1MT15 2	SEV08	LOW VOLTAGE CONTROL BOX	
A66	1MT16 6	SEV09	LOW VOLTAGE CONTROL BOX	
A66	1MTA5 2	SCF05	LOW VOLTAGE CONTROL BOX	
A66	1MTA5 2	SCL09	LOW VOLTAGE CONTROL BOX	
A66	1MTA5 6	SEV10	LOW VOLTAGE CONTROL BOX	
A66	1MTA5 9	SMC11	LOW VOLTAGE CONTROL BOX	
A66	1MTA6 2	SCF01	LOW VOLTAGE CONTROL BOX	
A66	1MTA6 2	SCL04	LOW VOLTAGE CONTROL BOX	
A66	1MTA6 4	SCF04	LOW VOLTAGE CONTROL BOX	
A66	1MTA6 4	SCL08	LOW VOLTAGE CONTROL BOX	
A66	1MTA6 6	SCF03	LOW VOLTAGE CONTROL BOX	
A66	1MTA6 6	SCL06	LOW VOLTAGE CONTROL BOX	
A66	1MTA6 8	SCF06	LOW VOLTAGE CONTROL BOX	
A66	1MTA6 8	SCL10	LOW VOLTAGE CONTROL BOX	
A66	2MT15 2	SCL07	LOW VOLTAGE CONTROL BOX	
A66	2MT15 4	SCL05	LOW VOLTAGE CONTROL BOX	
A66	2MT16 4	SCL11	LOW VOLTAGE CONTROL BOX	
A66	2MTA16 6	SCL12	LOW VOLTAGE CONTROL BOX	
A66	CR01M 7	SCF01	LOW VOLTAGE CONTROL BOX	
A66	CR01M 7	SCL04	LOW VOLTAGE CONTROL BOX	
A66	CR02M 7	SCF03	LOW VOLTAGE CONTROL BOX	
A66	CR02M 7	SCL06	LOW VOLTAGE CONTROL BOX	
A66	CR03M 7	SCF04	LOW VOLTAGE CONTROL BOX	
A66	CR03M 7	SCL08	LOW VOLTAGE CONTROL BOX	
A66	CR04M 7	SCF05	LOW VOLTAGE CONTROL BOX	
A66	CR04M 7	SCL09	LOW VOLTAGE CONTROL BOX	
A66	CR05M 7	SCF06	LOW VOLTAGE CONTROL BOX	
A66	CR05M 7	SCL10	LOW VOLTAGE CONTROL BOX	
A66	CR06M 7	SCL11	LOW VOLTAGE CONTROL BOX	
A66	CRCWM 7	SEV10	LOW VOLTAGE CONTROL BOX	
A66	CRDAM 7	SMC11	LOW VOLTAGE CONTROL BOX	
A66	CRDRRM7	SEV09	LOW VOLTAGE CONTROL BOX	
A66	CRE1M 7	SMC08	LOW VOLTAGE CONTROL BOX	
A66	CRFLM 7	SCL12	LOW VOLTAGE CONTROL BOX	
A66	CRL1M 7	SCL05	LOW VOLTAGE CONTROL BOX	
A66	CRL2M 7	SCL07	LOW VOLTAGE CONTROL BOX	
A66	CRS+S 6	SSP07	HIGH VOLTAGE CONTROL BOX	3A1S
A66	CRSTM 7	SEV07	LOW VOLTAGE CONTROL BOX	
A66	CRVXM 7	SEV08	LOW VOLTAGE CONTROL BOX	
A66	CSDRL V	SMC10	HIGH VOLTAGE CONTROL BOX	
A66	TBR W	SSP08	LOW VOLTAGE CONTROL BOX	
A66	TBS G	SSP07	LOW VOLTAGE CONTROL BOX	
A66	TBS W	SSP09	LOW VOLTAGE CONTROL BOX	
A66	WCR 19		LOW VOLTAGE CONTROL BOX	
A67	1MT1410	SCS07	LOW VOLTAGE CONTROL BOX	

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A67	CRS+ 7	SCS07	LOW VOLTAGE CONTROL BOX	1A6S
A67	CRTM 1	SCS07	LOW VOLTAGE CONTROL BOX	
A67	TBS Z	SCS07	LOW VOLTAGE CONTROL BOX	
A6A	CLDCC 8	SS+08	LOW VOLTAGE CONTROL BOX	1B6S
A6A	CLDCD 8	SS+09	AUTOSPOT CONTROL BOX	4C1S
A6A	CRS+S A	SS+07	LOW VOLTAGE CONTROL BOX	1A6S
A6A	CRS+S A	SS+06	HIGH VOLTAGE CONTROL BOX	3A1S
A6A	SPB2R 1	SS+06	AIR VALVE ASSEMBLY	
A6A	TBS M	SS+07	LOW VOLTAGE CONTROL BOX	
A6A	WCQ 17		AIR VALVE ASSEMBLY	
A6A	WCV 17		LOW VOLTAGE CONTROL BOX	
A6A	WCX 30		AUTOSPOT & HIGH VOLTAGE C-BOX	
A6A	WCY 11		LOW VOLTAGE CONTROL BOX	
ASA	EMAS A	SMC17	MOUNTED ON MACHINE	
ASA	ZFAS C	SMC18	AUTOSPOT CONTROL BOX	
ASB	EMAS A	SMC17	MOUNTED ON MACHINE	
ASB	ZPAS D	SMC18	AUTOSPOT CONTROL BOX	
B12	CRASJ 2	SAS04	AUTOSPOT CONTROL BOX	4B1M
B12	CRAST 9	SAS02	AUTOSPOT CONTROL BOX	4A5M
B12	CRSOE 9	SAS04	AUTOSPOT CONTROL BOX	4B5S
B12	CRSOE 9	SAS05	AUTOSPOT CONTROL BOX	4B5S
B12	VEAS A	SAS04	AIR VALVE ASSEMBLY	
B12	WCQ 13		AIR VALVE ASSEMBLY	
B12	WCR 35		LOW VOLTAGE CONTROL BOX	
B12	WCV 13		LOW VOLTAGE CONTROL BOX	
B12	WCX 11		AUTOSPOT & HIGH VOLTAGE C-BOX	
B14	CDS+N 4	SD 11	LOW VOLTAGE CONTROL BOX	1B1S
B14	CRASK 7	SD 11	AUTOSPOT CONTROL BOX	4C4M
B14	WCX 18		AUTOSPOT & HIGH VOLTAGE C-BOX	
B14	WCY 15		LOW VOLTAGE CONTROL BOX	
B16	CDS+N 6	SD 13	LOW VOLTAGE CONTROL BOX	1B1S
B16	CRASK 8	SD 13	AUTOSPOT CONTROL BOX	4C4M
B16	WCX 29		AUTOSPOT & HIGH VOLTAGE C-BOX	
B16	WCY 17		LOW VOLTAGE CONTROL BOX	
B1A	CRASJ A	SAS11	AUTOSPOT CONTROL BOX	4B1M
B1A	SHASC13	ASC04	AUTOSPOT SWITCH PANEL (CLEAN)	
B1A	SHASC17	ASC04	AUTOSPOT SWITCH PANEL (CLEAN)	
B1A	SHASS13	SAS10	AUTOSPOT SWITCH PANEL (SOIL)	
B1A	SHASS13	SAS10	AUTOSPOT SWITCH PANEL (SOIL)	
B1A	WCG 10		LOW VOLTAGE CONTROL BOX	
B1A	WCG 10		SWITCH PANEL (CLEAN)	

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B1A	WCN 13		AUTOSPOT SWITCH PANEL	
B1A	WCR 31		LOW VOLTAGE CONTROL BOX	
B1A	WCX 9		AUTOSPOT & HIGH VOLTAGE C-BOX	
B1A	WCY 5		LOW VOLTAGE CONTROL BOX	
B21	CLPCC 1	SD 11	LOW VOLTAGE CONTROL BOX	1B2C
B21	CRSOS 7	SD 11	LOW VOLTAGE CONTROL BOX	1B3S
B24	CLPCC 4	SD 13	LOW VOLTAGE CONTROL BOX	1B2C
B24	CRSOC 7	SD 12	LOW VOLTAGE CONTROL BOX	1B4S
B24	CRSOC 7	SD 13	LOW VOLTAGE CONTROL BOX	1B4S
B25	CRASI 5	SEV02	AUTOSPOT CONTROL BOX	4B2M
B25	CRASJ 7	SEV01	AUTOSPOT CONTROL BOX	4B1M
B26	CRASI 6	SAS04	AUTOSPOT CONTROL BOX	4B2M
B26	CRASJ 8	SAS04	AUTOSPOT CONTROL BOX	4B1M
B28	CLDCD 9	SCS07	AUTOSPOT CONTROL BOX	4C1S
B28	CLDCD 9	SCS08	AUTOSPOT CONTROL BOX	4C1S
B28	CLPCC 8	SCS08	LOW VOLTAGE CONTROL BOX	1B2C
B28	WCX 27		AUTOSPOT & HIGH VOLTAGE C-BOX	
B28	WCY 20		LOW VOLTAGE CONTROL BOX	
B31	CRPCD 1	SAS02	AUTOSPOT CONTROL BOX	4B3C
B31	ELASS A	SAS03	SWITCH PANEL (SOIL)	
B34	CDS+N 7	SD 11	LOW VOLTAGE CONTROL BOX	1B1S
B34	CRPCD 4	SAS01	AUTOSPOT CONTROL BOX	4B3C
B34	CRSOS 4	SD 11	LOW VOLTAGE CONTROL BOX	1B3S
B34	CRSS 5	SD 10	LOW VOLTAGE CONTROL BOX	1B5S
B34	ELASC A	SAS02	SWITCH PANEL (CLEAN)	
B3A	CRSOS A	SD 07	LOW VOLTAGE CONTROL BOX	1B3S
B3A	CRSOT A	SD 06	AUTOSPOT CONTROL BOX	4B4S
B3A	SHSOS 4	SD 07	SWITCH PANEL (SOIL)	
B3A	TBR S	SD 07	LOW VOLTAGE CONTROL BOX	
B3A	WCJ 7		LOW VOLTAGE CONTROL BOX	
B3A	WCN 7		AUTOSPOT SWITCH PANEL	
B3A	WCX 15		PROCESSOR CONTROL BOX	
B3A	WCY 3		LOW VOLTAGE CONTROL BOX	
B41	CRPLC 7	SD 12	LOW VOLTAGE CONTROL BOX	1A1D
B41	CRSOC 1	SD 12	LOW VOLTAGE CONTROL BOX	1B4S
B42	CRSIC 2	SD 04	LOW VOLTAGE CONTROL BOX	1B4S
B42	TBR K	SD 04	LOW VOLTAGE CONTROL BOX	
B42	VEPCC A	SD 04	AIR VALVE ASSEMBLY	

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B42	VCQ 9		AIR VALVE ASSEMBLY	
B42	VCV 9		LOW VOLTAGE CONTROL BOX	
B43	CRSOC 3	SAS09	LOW VOLTAGE CONTROL BOX	1B4S
B43	SHASS11	SAS10	AUTOSPOT SWITCH PANEL (SOIL)	
B43	SHASS21	SAS15	AUTOSPOT SWITCH PANEL (SOIL)	
B43	SHWJS 7	SAS17	SWITCH PANEL (SOIL)	
B43	WCJ 20		LOW VOLTAGE CONTROL BOX	
B43	WCN 20		AUTOSPOT SWITCH PANEL	
B44	CDS+N 9	SD 13	LOW VOLTAGE CONTROL BOX	1B1S
B44	CRSOC 4	SD 13	LOW VOLTAGE CONTROL BOX	1B4S
B44	SHS+C 7	SD 14	SWITCH PANEL (CLEAN)	
B44	TBS A	SD 14	LOW VOLTAGE CONTROL BOX	
B44	WCC 4		LOW VOLTAGE CONTROL BOX	
B44	WCG 4		SWITCH PANEL (CLEAN)	
B46	CRSOC 6	ASC02	LOW VOLTAGE CONTROL BOX	1B4S
B46	SHASC11	ASC04	AUTOSPOT SWITCH PANEL (CLEAN)	
B46	SHASC21	ASC08	AUTOSPOT SWITCH PANEL (CLEAN)	
B46	SHWJC 7	ASC12	SWITCH PANEL (CLEAN)	
B46	WCC 16		LOW VOLTAGE CONTROL BOX	
B46	WCG 16		SWITCH PANEL (CLEAN)	
B47	CRSOE 1	SAS14	AUTOSPOT CONTROL BOX	4B5S
B47	CRSOT 7	SAS14	AUTOSPOT CONTROL BOX	4B4S
B48	CRSOE 2	SAS15	AUTOSPOT CONTROL BOX	4B5S
B48	CRSOT 8	SAS15	AUTOSPOT CONTROL BOX	4B4S
B53	CRSOE 3	SAS04	AUTOSPOT CONTROL BOX	4B5S
B53	SCAS1 7	SAS04	MOUNTED ON MACHINE	
B53	WCZ 2		AUTOSPOT CONTROL BOX	
B54	CRS+S 4	SS+06	HIGH VOLTAGE CONTROL BOX	3A1S
B54	CRSS 4	SS+07	LOW VOLTAGE CONTROL BOX	1B5S
B54	SMERB 7	SS+06	MOUNTED ON MACHINE	
B54	TBS L	SS+06	LOW VOLTAGE CONTROL BOX	
B54	WCQ 22		AIR VALVE ASSEMBLY	
B54	WCR 23		LOW VOLTAGE CONTROL BOX	
B54	WCV 22		LOW VOLTAGE CONTROL BOX	
B56	CRSOE 6	SAS05	AUTOSPOT CONTROL BOX	4B5S
B56	SCAS4 7	SAS05	MOUNTED ON MACHINE	
B56	WCZ 3		AUTOSPOT CONTROL BOX	
B57	1MT14 1	SS+08	LOW VOLTAGE CONTROL BOX	
B57	CRS+M 7	SS+08	LOW VOLTAGE CONTROL BOX	

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WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
B57	CRS+S 7	SS+05	HIGH VOLTAGE CONTROL BOX	3A1S
B57	CRS+S 7	SS+06	HIGH VOLTAGE CONTROL BOX	3A1S
B57	CRSS 7	SS+07	LOW VOLTAGE CONTROL BOX	1B5S
B57	TBS C	SS+08	LOW VOLTAGE CONTROL BOX	
B57	WCR 24		LOW VOLTAGE CONTROL BOX	
B58	CRPLA 7	SAS03	AUTOSPOT CONTROL BOX	4C5D
B58	CRSS 8	SD 10	LOW VOLTAGE CONTROL BOX	1B5S
B58	CRSS 8	SD 15	LOW VOLTAGE CONTROL BOX	1B5S
B58	TBS B	SD 10	LOW VOLTAGE CONTROL BOX	
B58	WCR 25		LOW VOLTAGE CONTROL BOX	
B58	WCX 14		AUTOSPOT & HIGH VOLTAGE C-BOX	
B59	1MT14 3	SS+04	LOW VOLTAGE CONTROL BOX	
B59	CRSGM 4	SS+04	LOW VOLTAGE CONTROL BOX	
B59	CRSS 9	SS+04	LOW VOLTAGE CONTROL BOX	1B5S
B5A	CRSS A	SS+10	LOW VOLTAGE CONTROL BOX	
B5A	SHS+ 4	SS+10	SWITCH PANEL (SOIL)	
B5A	TBR V	SS+10	LOW VOLTAGE CONTROL BOX	
B5A	WCJ 9		LOW VOLTAGE CONTROL BOX	
B5A	WCN 9		AUTOSPOT SWITCH PANEL	
B63	CDEXN 9	SCS06	LOW VOLTAGE CONTROL BOX	1A5S
B63	CLDCC 3	SCS06	LOW VOLTAGE CONTROL BOX	1B6S
B69	1MT13 5	SCS06	LOW VOLTAGE CONTROL BOX	
B69	CLDCC 9	SCS06	LOW VOLTAGE CONTROL BOX	1B6S
B69	CRTM 4	SCS06	LOW VOLTAGE CONTROL BOX	4C1S
B69	TBS 1	SCS06	LOW VOLTAGE CONTROL BOX	
B6B	CLDCC B	SD 02	LOW VOLTAGE CONTROL BOX	1B6S
B6B	CLDCD B	SD 01	AUTOSPOT CONTROL BOX	4C1S
B6B	SMPLC 1	SD 02	MOUNTED ON MACHINE	
B6B	TBR N	SD 02	LOW VOLTAGE CONTROL BOX	
B6B	WCR 26		LOW VOLTAGE CONTROL BOX	
B6B	WCX 4		AUTOSPOT & HIGH VOLTAGE C-BOX	
BR4	1MTA4 7	SI 10	LOW VOLTAGE CONTROL BOX	
BR4	SPBR 4	SI 10	AIR VALVE ASSEMBLY	
BR4	WCQ 20		AIR VALVE ASSEMBLY	
BR4	WCV 20		LOW VOLTAGE CONTROL BOX	
C14	1MTA4 4	SI 13	LOW VOLTAGE CONTROL BOX	
C14	CLDCD 4	SI 13	AUTOSPOT CONTROL BOX	4C1S
C14	WCJ 13		LOW VOLTAGE CONTROL BOX	
C14	WCX 13		AUTOSPOT & HIGH VOLTAGE C-BOX	
C14	WCY 16		LOW VOLTAGE CONTROL BOX	

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C16	CLDCD 6	SCS08	AUTOSPOT CONTROL BOX	4C1S
C16	CRCCR 4	SCS08	AUTOSPOT CONTROL BOX	4C2C
C25	CLDCD 7	SI 13	AUTOSPOT CONTROL BOX	4C1S
C25	CRCCR 5	SI 13	AUTOSPOT CONTROL BOX	4C2C
C33	CRASM 3	SEV03	AUTOSPOT CONTROL BOX	4C3M
C33	TBR U	SEV03	LOW VOLTAGE CONTROL BOX	
C33	VEWBR A	SEV03	AIR VALVE ASSEMBLY	
C33	WCQ 1		AIR VALVE ASSEMBLY	
C33	WCR 18		LOW VOLTAGE CONTROL BOX	
C33	WCV 1		LOW VOLTAGE CONTROL BOX	
C33	WCX 2		AUROSPT & HIGH VOLTAGE C-BOX	
C35	CRASM 5	SMC15	AUTOSPOT CONTROL BOX	4C3M
C35	CSJC A	SMC15	AUTOSPOT CONTROL BOX	
C35	EXAS H*	SMC16	AUTOSPOT CONTROL BOX	
C35	TBA A	SMC15	AUTOSPOT CONTROL BOX	
C38	1MT13 2	SMC10	LOW VOLTAGE CONTROL BOX	4C3M
C38	CRASM 8	SMC10	AUTOSPOT CONTROL BOX	4C3M
C38	CRASM 8	SMC15	AUTOSPOT CONTROL BOX	4B5S
C38	CRSOE 8	SMC15	AUTOSPOT CONTROL BOX	
C38	CRWCM 4	SMC10	LOW VOLTAGE CONTROL BOX	
C38	TBM 4	SMC10	HIGH VOLTAGE CONTROL BOX	
C38	WCR 8		LOW VOLTAGE CONTROL BOX	
C38	WCX 33		AUTOSPOT & HIGH VOLTAGE C-BOX	
CR4	CRPLC 9	SCS09	LOW VOLTAGE CONTROL BOX	1A1D
CR4	SHCCR 4	SCS09	SWITCH PANEL (CLEAN)	
CR4	TBS 2	SCS09	LOW VOLTAGE CONTROL BOX	
CR4	WCC 8		LOW VOLTAGE CONTROL BOX	
CR4	WCG 8		SWITCH PANEL (CLEAN)	
DRA	1MTA5 8	SMC11	LOW VOLTAGE CONTROL BOX	
DRA	CRDAM 4	SMC11	LOW VOLTAGE CONTROL BOX	
DRA	CSDR A	SMC11	HIGH VOLTAGE CONTROL BOX	
DRA	TBM 5	SMC11	HIGH VOLTAGE CONTROL BOX	
DRA	WCR 9		LOW VOLTAGE CONTROL BOX	
DRR	1MT16 5	SEV09	LOW VOLTAGE CONTROL BOX	
DRR	CRDRRM4	SEV09	LOW VOLTAGE CONTROL BOX	
DRR	VEDRR A	SEV09	AIR VALVE ASSEMBLY	
DRR	WCQ 16		AIR VALVE ASSEMBLY	
DRR	WCV 16		LOW VOLTAGE CONTROL BOX	
DRS	1MT16 7	SEV06	LOW VOLTAGE CONTROL BOX	

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DRS	CRDRM 4	SEV06	LOW VOLTAGE CONTROL BOX	
DRS	VEDRS A	SEV06	AIR VALVE ASSEMBLY	
DRS	WCQ 15		AIR VALVE ASSEMBLY	
DRS	WCV 15		LOW VOLTAGE CONTROL BOX	
E1A	CSE1 A	SMC07	HIGH VOLTAGE CONTROL BOX	
E1A	CSE2R K	SMC07	HIGH VOLTAGE CONTROL BOX	
E1V	1MT13 8	SMC08	LOW VOLTAGE CONTROL BOX	
E1V	CRE2M 4	SMC08	LOW VOLTAGE CONTROL BOX	
E1V	CSE1L V	SMC08	HIGH VOLTAGE CONTROL BOX	
E1V	TBM 2	SMC08	HIGH VOLTAGE CONTROL BOX	
E1V	WCR 6		LOW VOLTAGE CONTROL BOX	
E2A	CSE1L K	SMC08	HIGH VOLTAGE CONTROL BOX	
E2A	CSE1 A	SMC08	HIGH VOLTAGE CONTROL BOX	
E2M	1MT13 4	SMC08	LOW VOLTAGE CONTROL BOX	
E2M	1MT13 9	SMC08	LOW VOLTAGE CONTROL BOX	
E2M	CRE1M 4	SMC08	LOW VOLTAGE CONTROL BOX	
E2M	CRE2M 7	SMC07	LOW VOLTAGE CONTROL BOX	
E2M	CRE2M 7	SMC08	LOW VOLTAGE CONTROL BOX	
E2V	1MT1310	SMC07	LOW VOLTAGE CONTROL BOX	
E2V	CRE2M 1	SMC07	LOW VOLTAGE CONTROL BOX	
E2V	CSE2R V	SMC07	HIGH VOLTAGE CONTROL BOX	
E2V	TBM 1	SMC07	HIGH VOLTAGE CONTROL BOX	
E2V	WCR 5		LOW VOLTAGE CONTROL BOX	
EX1	EF16X 7	SMC17	AUTOSPOT CONTROL BOX	
EX1	ZFAS A	SMC18	AUTOSPOT CONTROL BOX	
EX7	EF16X 1	SMC17	AUTOSPOT CONTROL BOX	
EX7	EXAS X*	SMC16	AUTOSPOT CONTROL BOX	
EY1	EF16Y 1	SMC17	AUTOSPOT CONTROL BOX	
EY1	ZFAS B	SMC18	AUTOSPOT CONTROL BOX	
EY7	EF16Y 7	SMC17	AUTOSPOT CONTROL BOX	
EY7	EXAS X*	SMC16	AUTOSPOT CONTROL BOX	
JJX	CDS+N A	SS+03	LOW VOLTAGE CONTROL BOX	1B1S
JJX	CRS+S 2	SS+03	HIGH VOLTAGE CONTROL BOX	3A1S
JJX	TBS J	SS+03	LOW VOLTAGE CONTROL BOX	
JJX	WCR 21		LOW VOLTAGE CONTROL BOX	
K1	1MT35 7	KPD03	PROCESSOR CONTROL BOX	
K1	1MTAK 1	KPD02	SWITCH PANEL (SOIL)	

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K1	WCX 1		PROCESSOR CONTROL BOX	
K2	1MT35 6	KPD05	PROCESSOR CONTROL BOX	
K2	1MTAK 2	KPD04	SWITCH PANEL (SOIL)	
K2	WCX 2		PROCESSOR CONTROL BOX	
K3	1MT35 1	KPD07	PROCESSOR CONTROL BOX	
K3	1MTAK 3	KPD06	SWITCH PANEL (SOIL)	
K3	WCX 3		PROCESSOR CONTROL BOX	
K4	1MT3510	KPD03	PROCESSOR CONTROL BOX	
K4	1MTAK 4	KPD02	SWITCH PANEL (SOIL)	
K4	WCX 4		PROCESSOR CONTROL BOX	
K5	1MT35 9	KPD05	PROCESSOR CONTROL BOX	
K5	1MTAK 5	KPD04	SWITCH PANEL (SOIL)	
K5	WCX 5		PROCESSOR CONTROL BOX	
K6	1MT35 8	KPD07	PROCESSOR CONTROL BOX	
K6	1MTAK 6	KPD06	SWITCH PANEL (SOIL)	
K6	WCX 6		PROCESSOR CONTROL BOX	
K7	1MT35 5	KPD07	PROCESSOR CONTROL BOX	
K7	1MTAK 7	KPD06	SWITCH PANEL (SOIL)	
K7	WCX 8		PROCESSOR CONTROL BOX	
K8	1MT35 4	KPD09	PROCESSOR CONTROL BOX	
K8	1MTAK 8	KPD08	SWITCH PANEL (SOIL)	
K8	WCX 8		PROCESSOR CONTROL BOX	
L11	EX37 H*	SPS**	HIGH VOLTAGE CONTROL BOX	
L17	CSE2 7	SMT13	HIGH VOLTAGE CONTROL BOX	
L17	EF1 7	SMT04	HIGH VOLTAGE CONTROL BOX	
L17	EF2 7	SMT01	HIGH VOLTAGE CONTROL BOX	
L17	EF3 7	SMT01	HIGH VOLTAGE CONTROL BOX	
L17	EF4 7	SMT00	AUTOSPOT CONTROL BOX	
L18	CSE2 8	SMT14	HIGH VOLTAGE CONTROL BOX	
L18	EF1 8	SMT09	HIGH VOLTAGE CONTROL BOX	
L18	EF2 8	SMT05	HIGH VOLTAGE CONTROL BOX	
L18	EF3 8	SMT02	HIGH VOLTAGE CONTROL BOX	
L18	EF4 8	SMT00	AUTOSPOT CONTROL BOX	
L19	CSE2 9	SMT15	HIGH VOLTAGE CONTROL BOX	
L19	EF1 9	SMT09	HIGH VOLTAGE CONTROL BOX	
L19	EF2 9	SMT05	HIGH VOLTAGE CONTROL BOX	
L19	EF3 9	SMT02	HIGH VOLTAGE CONTROL BOX	

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L19	EF4 9	SMT00	AUTOSPOT CONTROL BOX	
L21	EX37 H*	SPS**	HIGH VOLTAGE CONTROL BOX	
L34	1MTA3 8	SI 08	LOW VOLTAGE CONTROL BOX	
L34	SPLL3 4	SI 08	MOUNTED ON MACHINE	
LCA	CRASK 2	SD13	AUTOSPOT CONTROL BOX	4C4M
LCA	TBR R	SD13	LOW VOLTAGE CONTROL BOX	
LCA	VEPLC A	SD13	AIR VALVE ASSEMBLY	
LCA	WCQ 11		AIR VALVE ASSEMBLY	
LCA	WXV 11		LOW VOLTAGE CONTROL BOX	
LCA	WCX 34		AUTOSPOT & HIGH VOLTAGE C-BOX	
LCA	WCY 26		LOW VOLTAGE CONTROL BOX	
LL4	1MTA3 7	SI 07	LOW VOLTAGE CONTROL BOX	
LL4	SPLL1 4	SI 07	MOUNTED ON MACHINE	
LSA	CRASK 1	SD 11	AUTOSPOT CONTROL BOX	4C4M
LSA	TBR C	SD 11	LOW VOLTAGE CONTROL BOX	
LSA	VEPLS A	SD 11	AIR VALVE ASSEMBLY	
LSA	WCQ 4		AIR VALVE ASSEMBLY	
LSA	WCV 4		LOW VOLTAGE CONTROL BOX	
LSA	WCX 32		AUTOSPOT & HIGH VOLTAGE C-BOX	
LSA	WCY 25		LOW VOLTAGE CONTROL BOX	
OL	ETDR K		HIGH VOLTAGE CONTROL BOX	
OL	SHSOC 7	SD 07	SWITCH PANEL (CLEAN)	
OL	TBM 7	SD 07	HIGH VOLTAGE CONTROL BOX	
OL	WCG 1		SWITCH PANEL (CLEAN)	
OL	WCR 32		LOW VOLTAGE CONTROL BOX	
PDA	1MT16 1	SSP15	LOW VOLTAGE CONTROL BOX	
PDA	CRPDM 4	SSP15	LOW VOLTAGE CONTROL BOX	
PDA	VEWPD A	SSP15	AIR VALVE ASSEMBLY	
PDA	WCQ 10		AIR VALVE ASSEMBLY	
PDA	WCV 10		LOW VOLTAGE CONTROL BOX	
PL4	1MTA3 4	SI 06	LOW VOLTAGE CONTROL BOX	
PL4	SPLLL 4	SI 06	MOUNTED ON MACHINE	
RB4	WCP 8		LOW VOLTAGE & PROCESSOR C-BOX	
RC4	WCP 9		LOW VOLTAGE & PROCESSOR C-BOX	
S+4	CRSS 2	SD 15	LOW VOLTAGE CONTROL BOX	1B5S
S+4	SHS+C 4	SD 14	SWITCH PANEL (CLEAN)	
S+4	WCC 5		LOW VOLTAGE CONTROL BOX	

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WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
S+4	WCG 5		SWITCH PANEL (CLEAN)	
SG4	1MT38 2	SI 11	PROCESSOR CONTROL BOX	
SG4	SHSG 4	SI 11	SWITCH PANEL (SOIL)	
SG4	WCX 35		PROCESSOR CONTROL BOX	
SK4	1MT38 3	SI 12	PROCESSOR CONTROL BOX	
SK4	SKPR 4	SI 12	SWITCH PANEL (SOIL)	
SK4	WCX 34		PROCESSOR CONTROL BOX	
SM2	SCAS2 7	SAS10	MOUNTED ON MACHINE	
SM2	SHASS15	SAS10	AUTOSPOT SWITCH PANEL (SOIL)	
SM2	WCJ 15		LOW VOLTAGE CONTROL BOX	
SM2	WCN 15		AUTOSPOT SWITCH PANEL (SOIL)	
SM2	WCX 19		AUTOSPOT & HIGH VOLTAGE C-BOX	
SM2	WCY 7		LOW VOLTAGE CONTROL BOX	
SM2	WCZ 6		AUTOSPOT CONTROL BOX	
SM3	SCAS3 7	SAS11	MOUNTED ON MACHINE	
SM3	SHASS16	SAS10	AUTOSPOT SWITCH PANEL (SOIL)	
SM3	WCJ 21		LOW VOLTAGE CONTROL BOX	
SM3	WCN 21		AUTOSPOT SWITCH PANEL (SOIL)	
SM3	WCX 17		AUTOSPOT & HIGH VOLTAGE C-BOX	
SM3	WCY 23		LOW VOLTAGE CONTROL BOX	
SM3	WCZ 7		AUTOSPOT CONTROL BOX	
SM5	SCAS5 7	ASC04	MOUNTED ON MACHINE	
SM5	SHASC15	ASC04	AUTOSPOT SWITCH PANEL (SOIL)	
SM5	WCC 12		LOW VOLTAGE CONTROL BOX	
SM5	WCG 12		AUTOSPOT SWITCH PANEL (SOIL)	
SM5	WCR 29		AUTOSPOT & HIGH VOLTAGE C-BOX	
SM5	WCX 7		LOW VOLTAGE CONTROL BOX	
SM5	WCZ 8		AUTOSPOT CONTROL BOX	
SM6	SCAS6 7	ASC05	MOUNTED ON MACHINE	
SM6	SHASC16	ASC04	AUTOSPOT SWITCH PANEL (SOIL)	
SM6	WCC 18		LOW VOLTAGE CONTROL BOX	
SM6	WCG 18		AUTOSPOT SWITCH PANEL (SOIL)	
SM6	WCX 24		AUTOSPOT & HIGH VOLTAGE C-BOX	
SM6	WCY 24		LOW VOLTAGE CONTROL BOX	
SM6	WCZ 9		AUTOSPOT CONTROL BOX	
S01	CRPLS 7	SS+08	LOW VOLTAGE CONTROL BOX	1A3D
S01	SHSOS 1	SD 07	SWITCH PANEL (SOIL)	
S01	TBS P	SS+08	LOW VOLTAGE CONTROL BOX	
S01	WCJ 8		LOW VOLTAGE CONTROL BOX	
S01	WCN 8		AUTOSPOT SWITCH PANEL	

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SRH	1MT12 3	SBW08	LOW VOLTAGE CONTROL BOX	
SRH	1MT12 4	SBW08	LOW VOLTAGE CONTROL BOX	
SRH	1MT33 3	SBW04	PROCESSOR CONTROL BOX	
SRH	1MT52 3	SBW08	LOW VOLTAGE CONTROL BOX	
SRH	1MT52 4	SBW08	LOW VOLTAGE CONTROL BOX	
SRH	1MTA2 3	SBW04	LOW VOLTAGE CONTROL BOX	
SRH	1MTA2 4	SBW04	LOW VOLTAGE CONTROL BOX	
SRH	2MT12 4	SBW08	LOW VOLTAGE CONTROL BOX	
SRH	TBP 7	SBW04	LOW VOLTAGE CONTROL BOX	
SRL	1MT12 3	SBW08	LOW VOLTAGE CONTROL BOX	
SRL	1MT12 4	SBW08	LOW VOLTAGE CONTROL BOX	
SRL	1MT33 3	SBW05	PROCESSOR CONTROL BOX	
SRL	1MT52 3	SBW08	LOW VOLTAGE CONTROL BOX	
SRL	1MT52 4	SBW08	LOW VOLTAGE CONTROL BOX	
SRL	1MTA2 3	SBW05	LOW VOLTAGE CONTROL BOX	
SRL	1MTA2 4	SBW05	LOW VOLTAGE CONTROL BOX	
SRL	2MT12 4	SBW08	LOW VOLTAGE CONTROL BOX	
SRL	TBP 7	SBW05	LOW VOLTAGE CONTROL BOX	
STM	1MT14 5	SEV07	LOW VOLTAGE CONTROL BOX	
STM	CRSTM 4	SEV07	LOW VOLTAGE CONTROL BOX	
STM	VESTM A	SEV07	AIR VALVE ASSEMBY	
STM	WCQ 5		AIR VALVE ASSEMBY	
STM	WCV 5		LOW VOLTAGE CONTROL BOX	
T1R	1MT58 6	SBW13	LOW VOLTAGE CONTROL BOX	
T1W	1MT58 3	SBW14	LOW VOLTAGE CONTROL BOX	
TE1	ETE1 K		HIGH VOLTAGE CONTROL BOX	
TE1	ETWA V		HIGH VOLTAGE CONTROL BOX	
TE2	ETE1 V		HIGH VOLTAGE CONTROL BOX	
TE2	ETE2 V		HIGH VOLTAGE CONTROL BOX	
TWA	ETDR V		HIGH VOLTAGE CONTROL BOX	
TWA	ETWA K		HIGH VOLTAGE CONTROL BOX	
V1	1MT11 3	SBW09	LOW VOLTAGE CONTROL BOX	
V1	1MT11 4	SBW09	LOW VOLTAGE CONTROL BOX	
V1	1MT31 3	SBW04	PROCESSOR CONTROL BOX	
V1	1MT31 4	SBW04	PROCESSOR CONTROL BOX	
V1	1MT40 1	SBW09	PROCESSOR CONTROL BOX	
V1	1MT51 3	SBW09	LOW VOLTAGE CONTROL BOX	
V1	1MT51 4	SBW09	LOW VOLTAGE CONTROL BOX	
V1	1MTA1 3	SBW03	LOW VOLTAGE CONTROL BOX	
V1	1MTA1 4	SBW03	LOW VOLTAGE CONTROL BOX	

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V1	1MTD 1	SBW02	LOW VOLTAGE CONTROL BOX	
V1	2MT11 3	SBW09	LOW VOLTAGE CONTROL BOX	
V1	TBP 3	SBW03	LOW VOLTAGE CONTROL BOX	
V1	WCP 5		LOW VOLTAGE & PROCESSOR C-BOX	
V1A	1MTA6 1	SCF01	LOW VOLTAGE CONTROL BOX	
V1A	1MTA6 1	SCL04	LOW VOLTAGE CONTROL BOX	
V1A	CR01M 4	SCF01	LOW VOLTAGE CONTROL BOX	
V1A	CR01M 4	SCL04	LOW VOLTAGE CONTROL BOX	
V1A	VEC01 A	SCF01	MOUNTED ON MACHINE	
V1A	VEC01 A	SCL04	MOUNTED ON MACHINE	
V1A	WCR 10		LOW VOLTAGE CONTROL BOX	
V1A	WCS 1		HIGH VOLTAGE CONTROL BOX	
V1L	2MT15 3	SCL05	LOW VOLTAGE CONTROL BOX	
V1L	CRL1M 4	SCL05	LOW VOLTAGE CONTROL BOX	
V1L	VEC01AA	SCL05	MOUNTED ON MACHINE	
V1L	WCT 1		HI&LOW VOLTAGE CONTROL BOX	
V2	1MT11 5	SBW10	LOW VOLTAGE CONTROL BOX	
V2	1MT11 6	SBW10	LOW VOLTAGE CONTROL BOX	
V2	1MT31 5	SBW05	PROCESSOR CONTROL BOX	
V2	1MT31 6	SBW04	PROCESSOR CONTROL BOX	
V2	1MT40 3	SBW09	PROCESSOR CONTROL BOX	
V2	1MT51 5	SBW10	LOW VOLTAGE CONTROL BOX	
V2	1MT51 6	SBW10	LOW VOLTAGE CONTROL BOX	
V2	1MTA1 5	SBW03	LOW VOLTAGE CONTROL BOX	
V2	1MTA1 6	SBW03	LOW VOLTAGE CONTROL BOX	
V2	1MTD 5	SBW02	LOW VOLTAGE CONTROL BOX	
V2	2MT11 5	SBW10	LOW VOLTAGE CONTROL BOX	
V2	TBP 2	SBW03	LOW VOLTAGE CONTROL BOX	
V2	WCP 4		LOW VOLTAGE & PROCESSOR C-BOX	
V2A	1MTA6 7	SCF03	LOW VOLTAGE CONTROL BOX	
V2A	1MTA6 7	SCL06	LOW VOLTAGE CONTROL BOX	
V2A	CR02M 4	SCF03	LOW VOLTAGE CONTROL BOX	
V2A	CR02M 4	SCL06	LOW VOLTAGE CONTROL BOX	
V2A	VEC02 A	SCF03	MOUNTED ON MACHINE	
V2A	VEC02 A	SCL06	MOUNTED ON MACHINE	
V2A	WCR 11		LOW VOLTAGE CONTROL BOX	
V2A	WCS 2		HIGH VOLTAGE CONTROL BOX	
V2L	1MT15 1	SCL07	LOW VOLTAGE CONTROL BOX	
V2L	CRL2M 4	SCL07	LOW VOLTAGE CONTROL BOX	
V2L	VEC02AA	SCL07	MOUNTED ON MACHINE	
V2L	WCT 2		HI&LOW VOLTAGE CONTROL BOX	
V3	1MT11 7	SBW11	LOW VOLTAGE CONTROL BOX	

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V3	1MT11 8	SBW11	LOW VOLTAGE CONTROL BOX	
V3	1MT31 8	SBW04	PROCESSOR CONTORL BOX	
V3	1MT51 7	SBW11	LOW VOLTAGE CONTROL BOX	
V3	1MT51 8	SBW11	LOW VOLTAGE CONTROL BOX	
V3	1MTA1 7	SBW02	LOW VOLTAGE CONTROL BOX	
V3	1MTA1 8	SBW02	LOW VOLTAGE CONTROL BOX	
V3	1MTD 8	SBW02	LOW VOLTAGE CONTROL BOX	
V3	2MT11 7	SBW11	LOW VOLTAGE CONTROL BOX	
V3	TBP 1	SBW02	LOW VOLTAGE CONTROL BOX	
V3	WCP 3		LOW VOLTAGE & PROCESSOR C-BOX	
V3A	1MTA6 5	SCF04	LOW VOLTAGE CONTROL BOX	
V3A	1MTA6 5	SCL08	LOW VOLTAGE CONTROL BOX	
V3A	CR03M 4	SCF04	LOW VOLTAGE CONTROL BOX	
V3A	CR03M 4	SCL08	LOW VOLTAGE CONTROL BOX	
V3A	VEC03 A	SCF04	MOUNTED ON MACHINE	
V3A	VEC03 A	SCL08	MOUNTED ON MACHINE	
V3A	WCR 12		LOW VOLTAGE CONTROL BOX	
V3A	WCS 3		HIGH VOLTAGE CONTROL BOX	
V4A	1MTA610	SCF05	LOW VOLTAGE CONTROL BOX	
V4A	1MTA610	SCL09	LOW VOLTAGE CONTROL BOX	
V4A	CR04M 4	SCF05	LOW VOLTAGE CONTROL BOX	
V4A	CR04M 4	SCL09	LOW VOLTAGE CONTROL BOX	
V4A	VEC04 A	SCF05	MOUNTED ON MACHINE	
V4A	VEC04 A	SCL09	MOUNTED ON MACHINE	
V4A	WCR 13		LOW VOLTAGE CONTROL BOX	
V4A	WCS 4		HIGH VOLTAGE CONTROL BOX	
V5A	1MTA6 9	SCF06	LOW VOLTAGE CONTROL BOX	
V5A	1MTA6 9	SCL10	LOW VOLTAGE CONTROL BOX	
V5A	CR05M 4	SCF06	LOW VOLTAGE CONTROL BOX	
V5A	CR05M 4	SCL10	LOW VOLTAGE CONTROL BOX	
V5A	VEC05 A	SCF06	MOUNTED ON MACHINE	
V5A	VEC05 A	SCL10	MOUNTED ON MACHINE	
V5A	WCR 14		LOW VOLTAGE CONTROL BOX	
V5A	WCS 5		HIGH VOLTAGE CONTROL BOX	
V6A	2MT16 7	SCL11	LOW VOLTAGE CONTROL BOX	
V6A	CR06M 4	SCL11	LOW VOLTAGE CONTROL BOX	
V6A	VEC06 A	SCL11	MOUNTED ON MACHINE	
VB1	SMWVB 1	SS+06	HIGH VOLTAGE CONTROL BOX	
VB1	SPB2R 7	SS+06	AIR VALVE ASSEMBLY	
VB1	WCQ 3		AIR VALVE ASSEMBLY	
VB1	WCR 34		LOW VOLTAGE CONTROL BOX	
VB1	WCV 3		LOW VOLTAGE CONTROL BOX	

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WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
VB7	SMERB 1	SS+06	MOUNTED ON MACHINE	
VB7	SMWVB 7	SS+06	HIGH VOLTAGE CONTROL BOX	
VB7	WCQ 21		AIR VALVE ASSEMBLY	
VB7	WCV 21		LOW VOLTAGE CONTROL BOX	
VB7	WCY 14		LOW VOLTAGE CONTROL BOX	
VFL	2MT16 5	SCL12	LOW VOLTAGE CONTROL BOX	
VFL	CRFLM 4	SCL12	LOW VOLTAGE CONTROL BOX	
VFL	VECFL A	SCL12	MOUNTED ON MACHINE	
VFL	WCT 6		HI&LOW VOLTAGE CONTROL BOX	
W2L	1MTA5 3	SMC12	LOW VOLTAGE CONTROL BOX	
W2L	CRW2M 4	SMC12	LOW VOLTAGE CONTROL BOX	
W2L	CSW2N V	SMC12	2SPD WASH CONTROL BOX	
W2L	WC2 1		HIGH VOLTAGE CONTROL BOX	
W2L	WCY 27		LOW VOLTAGE CONTROL BOX	
W2N	1MTA5 1	SMC13	LOW VOLTAGE CONTROL BOX	
W2N	CRW2M 1	SMC13	LOW VOLTAGE CONTROL BOX	
W2N	CSW2L V	SMC13	2SPD WASH CONTROL BOX	
W2N	WC2 2		HIGH VOLTAGE CONTROL BOX	
W2N	WCY 28		LOW VOLTAGE CONTROL BOX	
W2R	CRAST 2	SSP02	AUTOSPOT CONTROL BOX	4A5M
W2R	VEB2R A	SSP02	AIR VALVE ASSEMBLY	
W2R	WCQ 8		AIR VALVE ASSEMBLY	
W2R	WCR 36		LOW VOLTAGE CONTROL BOX	
W2R	WCV 8		LOW VOLTAGE CONTROL BOX	
W2R	WCX 12		AUTOSPOT & HIGH VOLTAGE C-BOX	
WAA	CSWAA A	SMC09	HIGH VOLTAGE CONTROL BOX	
WAA	CSWAC K	SMC09	HIGH VOLTAGE CONTROL BOX	
WAM	1MT14 8	SMC10	LOW VOLTAGE CONTROL BOX	
WAM	CRWAM 7	SMC09	LOW VOLTAGE CONTROL BOX	
WAM	CRWAM 7	SMC10	LOW VOLTAGE CONTROL BOX	
WAM	CSDRL K	SMC10	HIGH VOLTAGE CONTROL BOX	
WAM	WCY 29		LOW VOLTAGE CONTROL BOX	
WAV	CRASM 2	SMC10	AUTOSPOT CONTROL BOX	4C3M
WAV	CSWAA V	SMC10	HIGH VOLTAGE CONTROL BOX	
WAV	WCX 23		AUTOSPOT & HIGH VOLTAGE C-BOX	
WBR	1MT15 8	SEV03	LOW VOLTAGE CONTROL BOX	
WBR	SRASI 8	SEV02	AUTOSPOT CONTROL BOX	4B2M
WBR	CRASM 9	SEV03	AUTOSPOT CONTROL BOX	4C3M
WBR	CRBRM 4	SEV03	LOW VOLTAGE CONTROL BOX	
WBR	TBS T	SEV03	LOW VOLTAGE CONTROL BOX	

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WIRE	COMPONENT NAME AND PIN NO.	SCHEMATIC AND LINE NO.	COMPONENT LOCATION	RELAY LOCATION CODE
WBR	WCR 17		LOW VOLTAGE CONTROL BOX	
WBR	WCX 1		AUTOSPOT & HIGH VOLTAGE C-BOX	
WCA	CSWAA K	SMC10	HIGH VOLTAGE CONTROL BOX	
WCA	CSWAC A	SMC10	HIGH VOLTAGE CONTROL BOX	
WCD	1MTA5 5	SEV10	LOW VOLTAGE CONTROL BOX	
WCD	CRCWM 4	SEV10	LOW VOLTAGE CONTROL BOX	
WCD	VETCW A	SEV10	AIR VALVE ASSEMBLY	
WCD	WCQ 23		AIR VALVE ASSEMBLY	
WCD	WCV 23		LOW VOLTAGE CONTROL BOX	
WCV	1MT14 7	SMC09	LOW VOLTAGE CONTROL BOX	
WCV	CRSOE 7	SAS14	AUTOSPOT CONTROL BOX	4B5S
WCV	CSWAC V	SMC09	HIGH VOLTAGE CONTROL BOX	
WCV	TBM 3	SMC09	HIGH VOLTAGE CONTROL BOX	
WCV	WCR 7		LOW VOLTAGE CONTROL BOX	
WCV	WCX 31		AUTOSPOT & HIGH VOLTAGE C-BOX	
WCX	1MT13 1	SMC10	LOW VOLTAGE CONTROL BOX	
WCX	1MT14 9	SMC10	LOW VOLTAGE CONTROL BOX	
WCX	CRWAM 4	SMC10	LOW VOLTAGE CONTROL BOX	
WCX	CRWCM 7	SMC10	LOW VOLTAGE CONTROL BOX	
WVC	1MT15 3	SEV05	LOW VOLTAGE CONTROL BOX	
WVC	CRVCM 4	SEV05	LOW VOLTAGE CONTROL BOX	
WVC	CRWAM 4	SMC09	LOW VOLTAGE CONTROL BOX	
WVC	VEWVC A	SEV05	AIR VALVE ASSEMBLY	
WVC	WCQ 7		AIR VALVE ASSEMBLY	
WVC	WCV 7		LOW VOLTAGE CONTROL BOX	
WVH	1MT15 6	SEV04	LOW VOLTAGE CONTROL BOX	
WVH	CRVHM 4	SEV04	LOW VOLTAGE CONTROL BOX	
WVH	VEWVH A	SEV04	AIR VALVE ASSEMBLY	
WVH	WCQ 6		AIR VALVE ASSEMBLY	
WVH	WCV 6		LOW VOLTAGE CONTROL BOX	
WVX	1MT15 1	SEV08	LOW VOLTAGE CONTROL BOX	
WVX	CRVXM 4	SEV08	LOW VOLTAGE CONTROL BOX	
WVX	VEWVX A	SEV08	AIR VALVE ASSEMBLY	
WVX	WCQ 19		AIR VALVE ASSEMBLY	
WVX	WCV 19		LOW VOLTAGE CONTROL BOX	