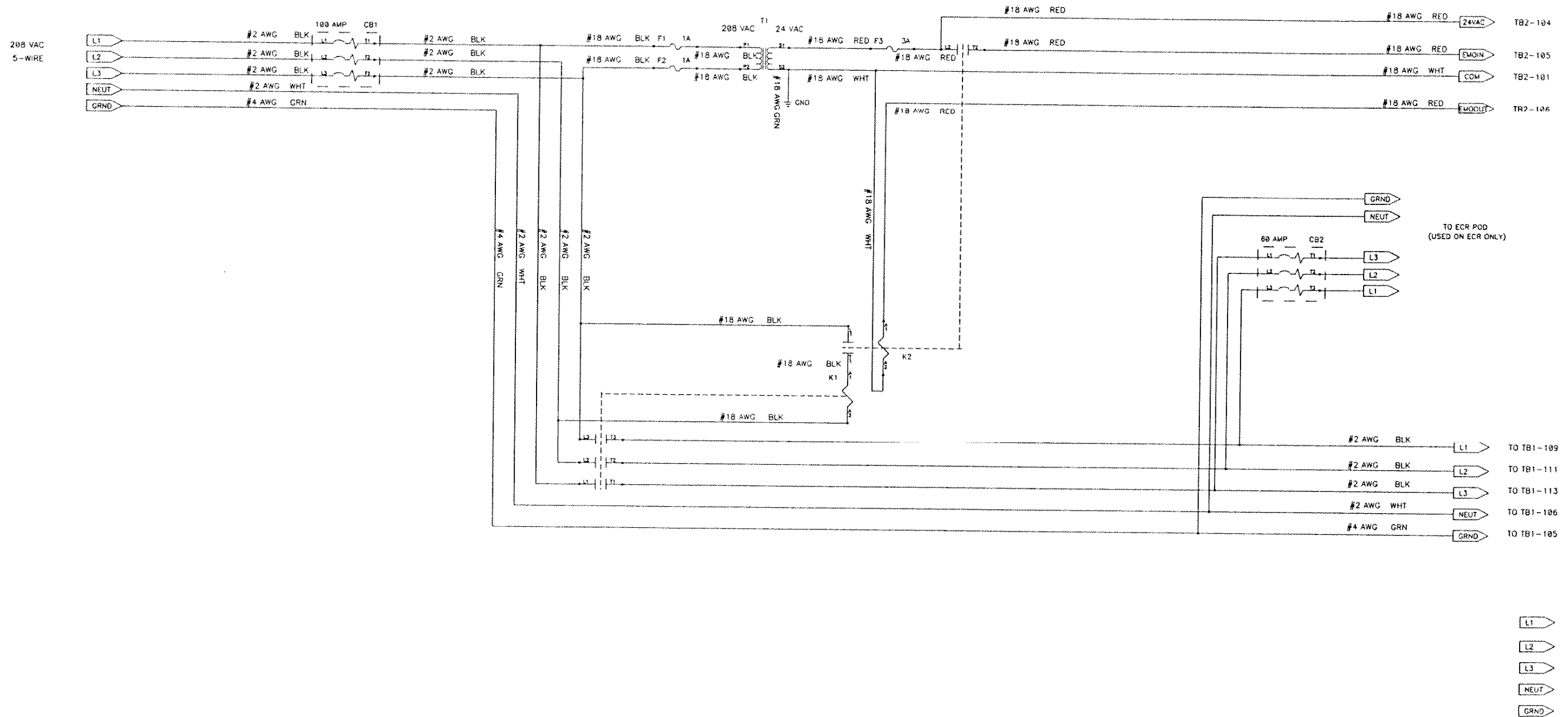


REVISIONS				
REV	ZONE	DESCRIPTION	DATE	REVISED BY
A	-	PRELIMINARY RELEASE		
B	-	ADDED S1 ON SHEET 3 OF 3	8/4/93	S.W.J
C	-	ADDED AUX BREAKER FOR POD	10/2/13	CJR

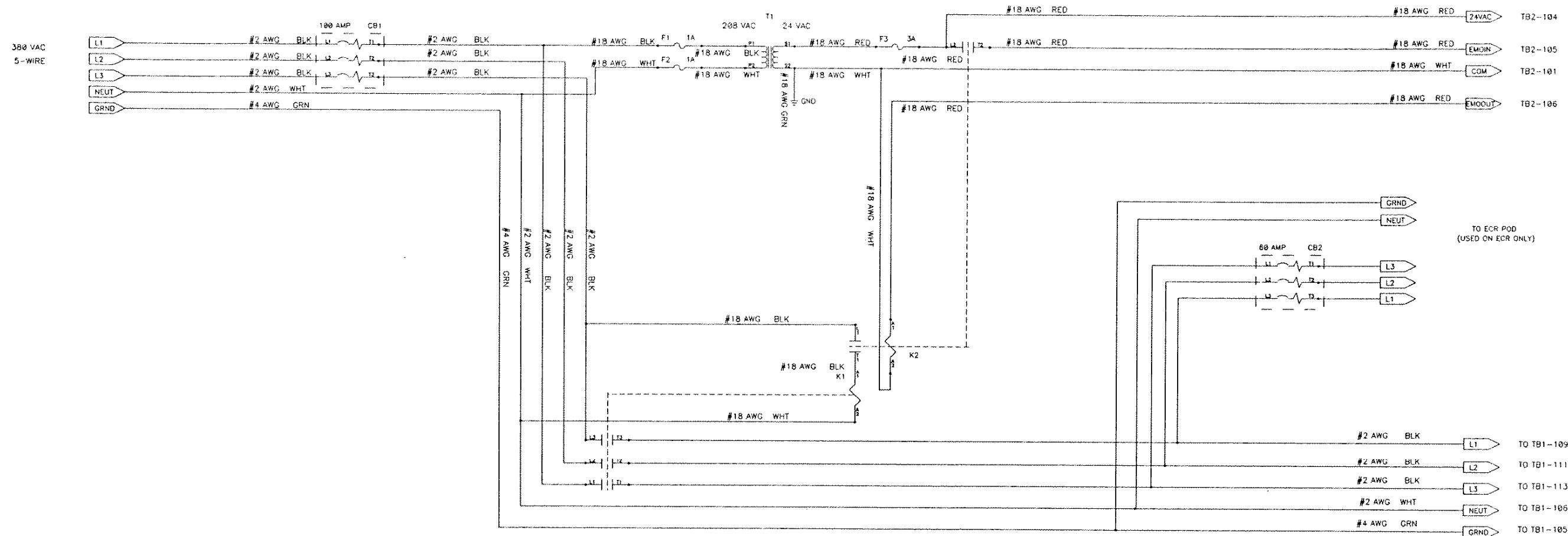


GROUP 201 - 100 AMP, 5-WIRE, 208 VAC

<small>THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PLASMA-THERM, INC. FLORIDA AND SHALL NOT BE REPRODUCED, COPIED, USED AS THE DIRECT OR INDIRECT BASIS FOR THE MANUFACTURE, DEVELOPMENT, SALE OF APPARATUS, PROCESSES OR PRODUCTS WITHOUT PERMISSION.</small>		DRAWN BY <b>STEVE JONES</b>	DATE <b>3/8/93</b>	<b>PLASMA - THERM, INC.</b>	
		CHECKED	DATE		TITLE <b>SCHEMATIC DIAGRAM DISCONNECT BOX</b>
		ENG APPVL	DATE	SIZE <b>D</b>	NO. <b>447935420X</b>
		WIRE LIST No.			
		ECR			
		SLR			
		NEXT ASSY USED ON			
		SE No.			
		FIRST APPLICATION	SCALE NONE	CAD-FILENAME 79354C12.S01	SHEET 1 OF 3

- L1
- L2
- L3
- NEUT
- GRND

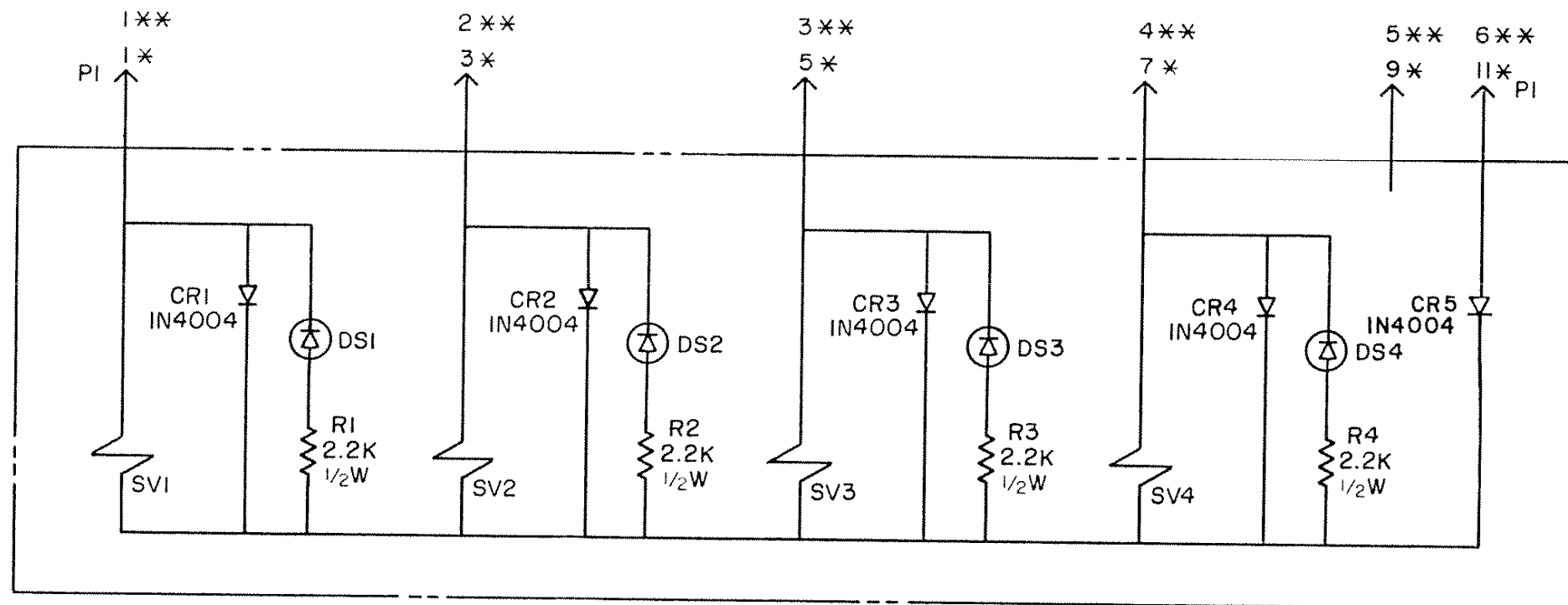
REVISIONS				
REV	ZONE	DESCRIPTION	DATE	REVISED BY
A	-	PRELIMINARY RELEASE		
B	-	ADDED S1 TO SHEET 3 OF 3	7/24/93	S W J
C	-	ADDED AUX BREAKER FOR POD	10/28/93	CJR



GROUP 202 - 100 AMP, 5-WIRE, 380 VAC

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		CHECKED _____	DATE _____	TITLE <b>SCHEMATIC DIAGRAM DISCONNECT BOX</b>	
		ENG. APP'VL. _____		DATE _____	
		WIRE LIST No. _____		SIZE <b>D</b>	NO. <b>447935420X</b>
		EPL No. _____		SCALE <b>NONE</b>	
		SE No. _____		CAD-FILENAME <b>79354C22.S01</b>	SHEET <b>2 OF 3</b>
FIRST APPLICATION _____					

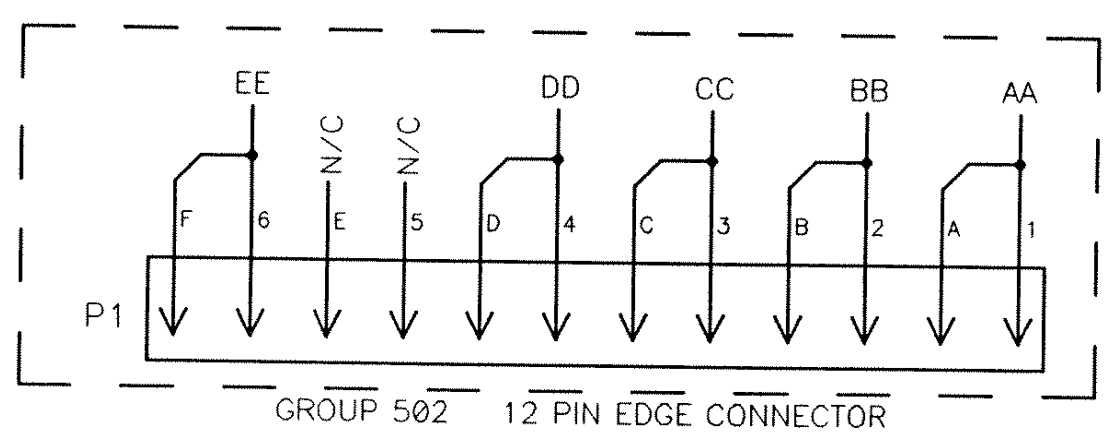
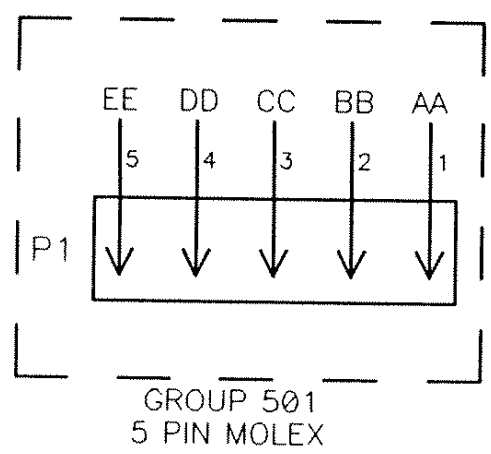
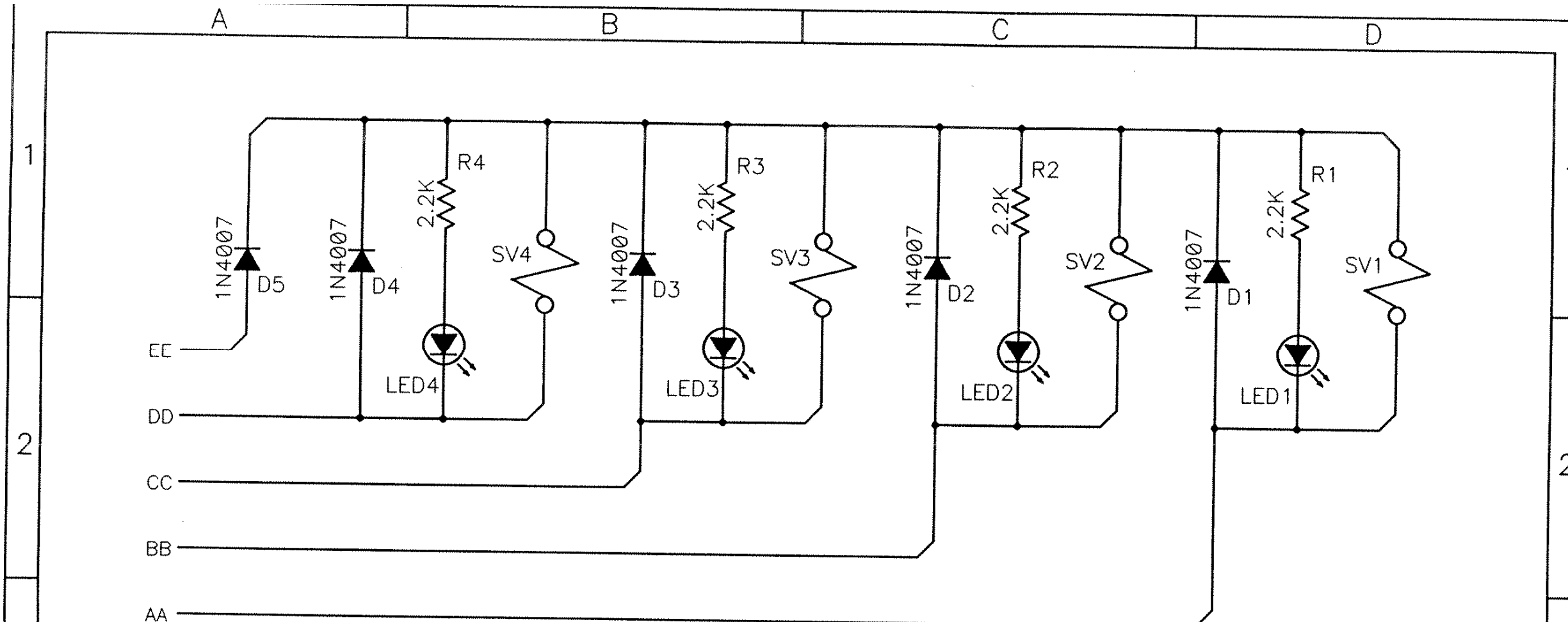




\* PIN NUMBERS WHEN USED ON IN-LINE WAF'R ETCH  
 \*\* PIN NUMBERS WHEN USED ON WB700, WB7000  
 AND IN-LINE WAF'R STRIP

D		Revised Per ECN N° 620S	11/21/86	DCP			DRAWN	DATE	 <b>Plasma-Therm, Inc.</b>
C		ADDED CR5 PER ECN PDG 193N	5/21/85	WJ			NAL	2-15-85	
B		ISSUED PER ECN # PDG 151N	2/25/85	KAU	3304225506	WB700	ENG APPVL	DATE	
A		PRELIMINARY RELEASE	2/22/85	KAU	340422550X	STRIPPER	KAU	2-22-85	
REV.	ZONE	DESCRIPTION	DATE	APPROVED	340422550X	IN-LINE	REL TO PROD	DATE	TITLE SCHEMATIC DIAGRAM PNEUMATIC CONTROL BOARD
					NEXT ASSY	USED ON	KAU	2/25/85	
					FIRST APPLICATION		REF. TO EPL		
							DWG. NO.	SHT 1 OF 1	SIZE
							3205798201	SCALE NONE	B

PT-B2



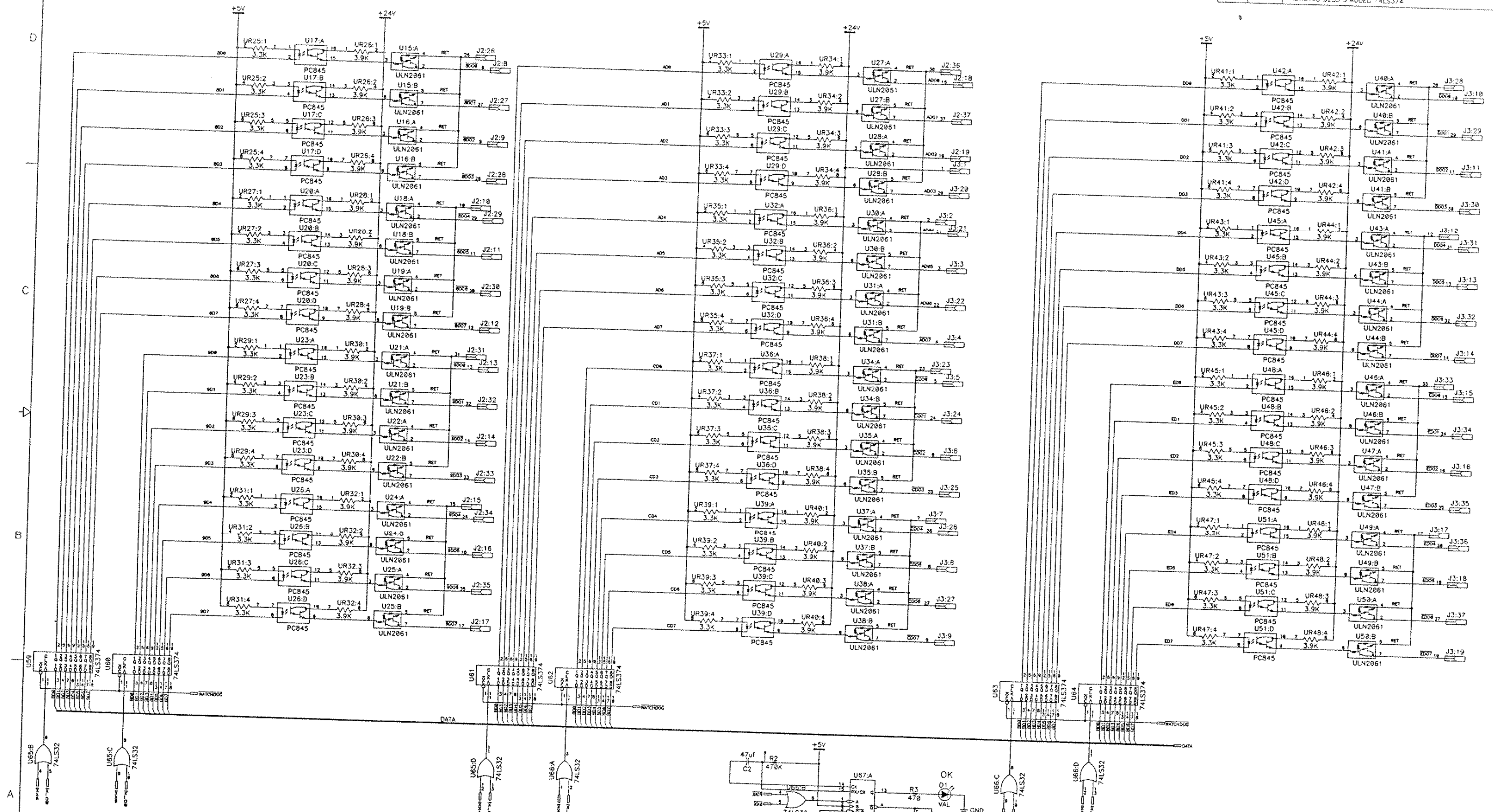
SUPERSEDES SCHEMATIC DWG No.3205798201  
ON ALL SYSTEMS SHIPPED AFTER 6/1/94

Title SCHEMATIC, PNEUMATIC CONTROL PCB		
Size A	Number 4180809201	Rev A
Date 6/1/94	Drawn by RTW	
Filename 80809A.S01	Sheet 1 of 1	





REVISIONS				
REV	ZONE	DESCRIPTION	DATE	REVISED BY
A	-	PRELIMINARY RELEASE		
B	-	REMOVED 8255'S ADDED 74LS374	8/28/94	RBG



NOTE:  
ALL ULN2061 PIN 1 TIE TO +24 VDC

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		CHECKED	DATE		TITLE SCHEMATIC, 96 CHANNEL DIGITAL I/O
		ENG. APPVL.	DATE	SIZE D	NO. 4477032201
		WIRE LIST No.		SCALE	CAD-FILENAME 77032B12.S01
		NEXT ASSY USED ON		SHEET 2 OF 2	
		FIRST APPLICATION			



REVISIONS				
REV	ZONE	DESCRIPTION	DATE	REVISED BY
A	-	PRELIMINARY RELEASE	8/31/94	DJM

A1-J01 - DOCKING MODULE INTERFACE				
A1A03J04:3	#25	A	DC COMMON	
A1A03J05:17	#365	AA	CH 2 CHMB AT ATM	
A1A14J06A:3	#368	AB	RF CVR CH 1 INT'LK	
A1A05J02:2	#377	AC	CH 2 CHMB CVR CH 1 SW	
A1A19P01:M	#485	AE	CH 2 CHMB BOT RTD COM	
A1A19P01:L	#486	AF	CH 2 CHMB BOT RTD	
A1A19P01:K	#487	AH	DRAIN	
A1A19P01:N	#488	AJ	CH 2 CHMB TOP RTD COM	
A1A19P01:P	#489	AK	CH 2 CHMB TOP RTD	
A1A19P01:K	#490	AL	DRAIN	
A1A03J15:23	#476	AM	CH 2 CHMB ENDPOINT COM	
A1A03P18:24	#477	AN	CH 2 CHMB ENDPOINT HEAD SIG	
A1A03P18:NO CONN	#478	AX	DRAIN	
A1A32A01P04:-	#154	AR	LES INT'LK	
A1A32A01P04:-	#134	AS	LES -12VDC	
A1A12P01:EB	#57	AT	DC COMMON	
A1A03J05:13	#203	AU	CH 2 PEDESTAL 2 UP	
A1A03J05:31	#254	AV	CH 2 PED DOWN	
A1A03J15:27	#559	AY	CH 2 ION PRESSURE COM	
A1A03P19:30	#560	AZ	CH 2 ION PRESSURE	
A1A03P19:NO CONN	#563	BA	DRAIN	
A1A03J15:28	#561	BE	CH 2 PRESSURE STPT COM	
A1A03J15:29	#564	BF	CH 2 MANO PRESSURE COM	
A1A03P18:22	#565	BN	CH 2 PRESSURE STPT	
A1A03P19:31	#566	BP	CH 2 MANO PRESSURE (0-10V)	
A1A03P19:NO CONN	#562	BH	DRAIN	
A1A12P01:EA	#36	B	DC COMMON	
A1A03J15:37	#525	BB	CH 2 ANALOG COM	
A1A03J11:32	#255	BF	OPEN CH 2 SLOT VALVE	
A1A12P01:S	#85	BU	+24 VDC	
A1A12P01:C	#70	C	+24 VDC	
A1A03J05:28	#527	CE	CH 2 THROTTLE CLOSED	
A1A03J07:31	#528	CF	OPEN CH 2 FLORECH	
A1A03J07:11	#529	CH	OPEN CH 2 BLOWECH 1 GATE	
A1A03J06:24	#530	CJ	CH 2 CT 2 < SETPOINT	
A1A03J05:10	#531	CK	CH 2 THROTTLE OPEN	
A1A03J07:30	#532	CL	OPEN CH 2 TURBO GATE	
A1A03J06:6	#533	CM	CH 2 TC 1 < SETPOINT	
A1A03J06:8	#534	CN	CH 2 I.G. REMOTE START/STOP	
A1A03J07:15	#535	CP	CLOSE CH 2 THROTTLE	
A1A03J06:23	#536	CS	CH 2 FLORELINE CLOSED	
A1A03J05:3	#537	CR	CH 2 ION GAUGE ON	
A1A03J06:22	#538	CT	CH 2 BLOWER CH 1 GATE CLOSED	
A1A03J05:33	#539	CU	CH 2 TURBO READY	
A1A05J02:8	#540	CV	TURBO COM CH 2	
A1A03J07:34	#541	CW	OPEN CH 2 THROTTLE	
A1A12P01:0Z	#542	CX	CH 2 FREQ CONV COM	
A1A05J02:10	#543	CY	TURBO NO CH 2	
A1A03J06:4	#544	CZ	CH 2 TURBO GATE CLOSED	
A1A12P01:Y	#71	D	+24 VDC	
A1A03J07:18	#546	DB	CLOSE CH 2 N2 RIFFD	
A1A12P01:0Y	#547	DD	DC COMMON	
A1A12P01:DX	#548	DE	DC COMMON	
A1A12P01:0W	#549	DF	DC COMMON	
A1A12P01:0V	#550	DH	DC COMMON	
A1A12P01:0U	#551	DJ	DC COMMON	
A1A12P01:0T	#552	DK	DC COMMON	
A1A12P01:0S	#553	DL	DC COMMON	
A1A12P01:0R	#554	DM	DC COMMON	
A1A12P01:H	#555	DP	DC COMMON	
A1A12P01:F	#556	DR	+24 VDC	
A1A12P01:E	#557	DS	+24 VDC	
A1A12P01:D	#558	DT	+24 VDC	
A1A03J07:32	#708	DU	+24 VDC	
A1A05P04:3	#814	DV	OPEN CH 2 TURBO PURGE	
A1A05P04:2	#815	DX	THROTTLE PAL	
A1A05P04:NO CONN	#816	DY		
A1A12P01:C	#77	E	+24 VDC	
A1A12P01:AT	#817	EA	(+15)	
A1A12P01:AU	#818	EB	(+15)	
A1A12P01:BK	#819	EC	-15	
A1A12P01:BL	#820	ED	-15	
A1A12P01:DL	#821	EE	-15	
A1A12P01:DM	#822	EF	DC COMMON	
A1A12P01:L	#85	F	DC COMMON	
A1A12P01:B	#92	H	CH 2 CHMB GATE VLV +24V*	
A1A12P01:A	#101	J	CH 2 VENT +24VDC	
A1A08P02:J	#129	K	+24VDC	
A1A08P02:K	#147	L	+15VDC	
A1A03J07:35	#149	M	-15VDC	
A1A03J07:16	#181	N	OPEN CH 2 CHMB GATE	
A1A03J06:3	#214	P	RAISE CH 2 PEDESTAL	
A1A03J06:3	#222	R	CHAMBER GATE IS CLOSED CH 2	
A1A30J01:1	#271	S	CH 2 CHMB GATE CLSD	
A1A11P01:2	#275	T	ELEC HEAT INT'LK	
A1A03J07:29	#343	U	ELEC HEAT INT'LK	
A1A08P02:F	#347	V	OPEN CH 2 ROUGH	
A1A05J02:3	#352	W	HEAD COOLING CIRCUIT	
A1A03J06:27	#354	X	CH 2 CHMB PROC LIMIT SW	
A1A30A02P01:F	#356	Y	CH 2 ION ISOL	
			HEAD COOLING CIRCUIT	

A1A02-P01 - EMO				
A1A12P07:B	#7	1	EMO INT'LK	
A1A13J02:X	#6	2	EMO INT'LK	
A1A12P01:AB	#734	(+)	+24V	
A1A03J03:10	#733	(-)	ALARM	
A1A02-P02 - ALARM				
A1A03-J01 - C.P.U. DIGITAL BRD 1 (J1)				
A1A03J12:31	#615	1	+24 VDC	
A1A05J02:15	#334	2	+15 SUPPLY OK	
A1A16P202:17	#286	3	ION GAUGE CH 1 ON	
A1A05J01:3	#231	4	CH 1 CHMB PROC LIMIT SW	
A1A05J01:7	#220	5	GAS PANEL 1 ENABLE	
A1A13J02:N	#261	7	HEAT 1 ON	
A1A11S01:N/O	#315	8	AIR ENABLE	
A1A11S02:N/O	#322	9	N2 ENABLE	
A1A20A05P01:ZZ	#213	10	THROTTLE OPEN	
A1A05J02:28	#762	11	CLAMP IS UP	
A1A36A01J01:1	#764			
A1A29A02S02P01:2	#240	12	CH 1 SLOT VALVE IS OPEN	
A1A05J02:29	#761			
A1A30A04S03P01:2	#253	13	CH 1 PED 2 UP	
A1A12P07:P	#311	14	BLOWER CH 1 ON	
A1A18P02:3	#319	15	TURBO ON CH 1	
A1A30A01S01:NO CONN	#351	17	CH 1 CHMB AT SW	
A1A05J02:16	#263	20	-15 SUPPLY OK	
A1A05J02:14	#616	21	+24 SUPPLY OK	
A1A03J03:19	#212			
A1A05J01:1	#187	22	CH 1 COVERS	
A1A10P1:CP	#195	23	CH 1 PURGE ENABLE	
A1A05J01:6	#689	27	WATER ENABLE	
A1A20A05P01:23	#160	28	THROTTLE CLOSED	
A1A36A01J01:2	#765	29	CLAMP IS DOWN	
A1A29A02S01P01:2	#521	30	CH 1 SLOT VALVE CLOSED	
A1A30A04S04P01:2	#202	31	CH 1 PEDESTAL CLOSED	
A1A12P07:H	#302	32	MECH CH 1 PUMP ON	
A1A18P02:1	#290	33	TURBO READY	
A1A23P01:5	#267	35	CRYO ROUGH CLOSED	

A1A03-J02 - C.P.U. DIGITAL BRD 1 (J2)				
A1A03J12:28	#633	1	+24 VDC	
A1A20A02P01:5	#329	3	CH 1 CHMB GATE CLOSED	
A1A25P01:5	#318	4	TURBO GATE CLOSED	
A1A22P01:5	#325	5	CRYO GATE CLOSED	
A1A17P101:8	#233	6	TC 1 < SETPOINT	
A1A32A01P05:5	#258	7	ENDPOINT FOUND CH 1	
A1A16P202:8	#262	8	I.G. REMOTE START/STOP	
A1A18P01:CV	#345	9	OPEN CH 1 CHMB MANO ISOL	
A1A12P01:CV	#634	10	DC COMMON	
A1A10P01:CU	#333	11	OPEN CH 1 PURGE	
A1A10P01:AP	#192	13	OPEN CH 1-1 ISOL	
A1A10P01:AS	#184	14	OPEN CH 1-3 ISOL	
A1A12P01:CW	#635	15	DC COMMON	
A1A10P01:BE	#228	16	OPEN CH 1-6 ISOL	
A1A10P01:BH	#244	17	OPEN CH 1-8 ISOL	
A1A10P01:AU	#264	18	OPEN CH 1-1 FLUSH	
A1A10P01:AW	#277	19	OPEN CH 1-3 FLUSH	
A1A20A06P01:5	#289	22	BLOWER CH 1 GATE CLOSED	
A1A28P01:5	#279	23	FLORELINE CLOSED	
A1A17P102:8	#189	24	TC 2 < SETPOINT	
A1A12P01:CX	#636	26	DC COMMON	
A1A04P02:10	#307	27	OPEN ION ISOL CH 1	
A1A04P01:5	#758	28	CLAMP GO UP CH 1	
A1A05J02:21	#763	30	HELIUM DEISO CH 1	
A1A12P01:CY	#637	31	DC COMMON	
A1A10P01:AR	#206	32	OPEN CH 1-2 ISOL	
A1A10P01:AT	#218	33	OPEN CH 1-4 ISOL	
A1A10P01:BD	#171	34	OPEN CH 1-5 ISOL	
A1A10P01:BF	#155	35	OPEN CH 1-7 ISOL	
A1A12P01:CZ	#638	36	DC COMMON	
A1A10P01:AV	#308	37	OPEN CH 1-2 FLUSH	

A1A03-J03 - C.P.U. DIGITAL BRD 1 (J3)				
A1A03J12:27	#640	1	+24V	
A1A12P01:CU	#641	2	DC COMMON	
A1A10P01:BK	#323	3	OPEN CH 1-6 FLUSH	
A1A10P01:BM	#335	4	OPEN CH 1-8 FLUSH	
A1A10P01:AZ	#194	5	OPEN CH 1-1 PROCESS	
A1A10P01:BB	#186	6	OPEN CH 1-3 PROCESS	
A1A12P01:CT	#642	7	DC COMMON	
A1A10P01:BP	#230	8	OPEN CH 1-6 PROCESS	
A1A10P01:BS	#246	9	OPEN CH 1-8 PROCESS	
A1A02P02:-	#733	10	ALARM	
A1A20A06P01:3	#188	11	OPEN BLOWER CH 1 GATE	
A1A12P01:CS	#643	12	DC COMMON	
A1A22P01:3	#232	13	OPEN CRYO GATE	
A1A33J01:1	#197	14	TURBO VENT VALVE CH 1	
A1A20A05P01:18	#268	15	CLOSE THROTTLE	
A1A05J01:12	#790			
A1A05J02:26	#182	16	RAISE CH 1 PEDESTAL	
A1A12P01:CR	#644	17	DC COMMON	
A1A20A07P01:2	#326	18	CLOSE N2 BLEED	
A1A03J01:21	#212	19	CRYO GO ON	
A1A10P01:AX	#316	20	OPEN CH 1-4 FLUSH	
A1A10P01:BJ	#287	21	OPEN CH 1-5 FLUSH	
A1A12P01:CN	#645	23	OPEN CH 1-7 FLUSH	
A1A10P01:BA	#208	24	DC COMMON	
A1A10P01:BC	#219	25	OPEN CH 1-2 PROCESS	
A1A10P01:BN	#173	26	OPEN CH 1-4 PROCESS	
A1A10P01:BR	#157	27	OPEN CH 1-5 PROCESS	
A1A12P01:CP	#646	28	OPEN CH 1-7 PROCESS	
A1A04P01:3	#269	29	DC COMMON	
A1A25P01:3	#221	30	OPEN CH 1 ROUGH	
A1A26P01:3	#175	31	OPEN TURBO GATE	
A1A04P02:11	#256	32	OPEN FORELINE	
A1A12P01:CM	#647	33	OPEN TURBO PURGE	
A1A20A05P01:19	#310	34	DC COMMON	
A1A10P01:CW	#344	36	OPEN THROTTLE	
A1A20A02P01:2	#281	37	OPEN CH 1 VENT	
A1A05J01:4	#336		OPEN CH 1 CHMB GATE	
			TURBO GO ON CH 1	

A1A03-J04 - C.P.U. DIGITAL BRD 1 (COMMON)				
A1J01:A	#25	3	DC COMMON	
A1A30A01S02:COM	#24	4	DC COMMON	
A1A09P01:15	#16	5	DC COMMON	
A1A19P01:HH	#17	6	DC COMMON	
A1A11S02:COM	#18	7	DC COMMON	
A1A11S01:COM	#19	8	DC COMMON	
A1A03J01:1	#20	9	DC COMMON	
A1A11P01:5	#21	10	DC COMMON	
A1A13J02:M	#22	11	DC COMMON	
A1A16P202:19	#23	12	DC COMMON	
A1A05S01:COM	#46	13	DC COMMON	
A1A32A01P05:4	#62	14	DC COMMON	
A1A12P01:CD	#1	15	DC COMMON	
A1A20A02P01:6	#30	16	DC COMMON	
A1A20A06P01:6	#31	17	DC COMMON	
A1A26P01:6	#32	18	DC COMMON	
A1A23P01:6	#33	19	DC COMMON	
A1A30A01S01:COM	#34	20	DC COMMON	
A1A20A05P01:11	#35	21	DC COMMON	
A1A17P102:10	#40	23	DC COMMON	
A1A18P02:2	#42	25	DC COMMON	
A1A40A01A01P01:14	#52	26	DC COMMON	
A1A30A04S04P01:1	#56	27	DC COMMON	
A1A28P01:COM	#61	28	DC COMMON	
A1A29A02S01P01:1	#164	29	DC COMMON	
A1A29A01S01P01:1	#166	30	DC COMMON	
A1A22P01:6	#28	31	DC COMMON	
A1A25P01:6	#29	32	DC COMMON	
A1A40NSR01P01:1	#47	33	DC COMMON	
A1A36A01J01:3	#766	34	DC COMMON	

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		CHECKED	DATE	TITLE SCHEMATIC DIAGRAM, MAIN FRAME, SHUTTLE LOCK READY 700	
		ENG. APPROV.	DATE	SIZE D	NO. 4482005201
4079625501 NEXT ASSY	SLR 700 USEG ON	WIRE LIST No. 4179597101	EPL No. 4079625501	SCALE NONE	CAD-FILENAME B2005A12.S01
FIRST APPLICATION	SE No.			SHEET 1 OF 7	

REV		ZONE		REVISIONS		DATE	REVISED BY
A	-	-	-	DESCRIPTION			
				PRELIMINARY RELEASE		8/31/94	DJM

A1A03-J05 - C.P.U. DIGITAL BRD 2 (J1)	
A1A03J12:24	#648
A1J01:CS	#537
A1A05J02:3	#209
A1A05J02:7	#247
A1J01:CK	#531
A1A29A01S02P01:2	#252
A1J01-AU	#203
A1A12P07:W	#688
A1J01-AA	#365
A1A05J02:1	#158
A1A10P02:CP	#174
A1J01:CE	#527
A1A29A01S01P01:2	#520
A1J01-AV	#524
A1A12P07:T	#687
A1J01:CU	#539

A1A03-J06 - C.P.U. DIGITAL BRD 2 (J2)	
A1A03J12:25	#649
A1J01:P	#214
A1J01-R	#222
A1J01:CC	#544
A1J01:CM	#533
A1J01:CN	#534
A1A10P02:CV	#177
A1A03J08:2	#650
A1A10P02:CU	#295
A1A10P02:AP	#692
A1A10P02:AS	#694
A1A03J08:3	#651
A1A10P02:BE	#589
A1A10P02:BH	#591
A1A10P02:AU	#695
A1A10P02:AW	#698
A1J01:CT	#538
A1J01:CR	#536
A1J01:CJ	#530
A1A03J08:4	#652
A1J01:X	#354
A1A03J08:5	#653
A1A10P02:AR	#693
A1A10P02:AT	#695
A1A10P02:BD	#588
A1A10P02:BF	#590
A1A03J08:6	#654
A1A10P02:AV	#697

A1A03-J07 - C.P.U. DIGITAL BRD 2 (J3)	
A1A03J12:32	#655
A1A03J08:8	#656
A1A10P02:BK	#593
A1A10P02:BM	#595
A1A10P02:AZ	#700
A1A10P02:BB	#670
A1A03J08:9	#657
A1A10P02:BP	#597
A1A10P02:BS	#599
A1J01:CH	#529
A1A03J08:10	#658
A1J01:CP	#535
A1J01:N	#181
A1A03J08:11	#659
A1J01:DB	#546
A1A10P02:AX	#699
A1A10P02:BJ	#592
A1A10P02:BL	#594
A1A03J08:12	#660
A1A10P02:BA	#701
A1A10P02:BC	#702
A1A10P02:BN	#596
A1A10P02:BR	#598
A1A03J08:13	#661
A1J01:U	#343
A1J01:CL	#532
A1J01:CF	#528
A1J01:DU	#705
A1A03J08:14	#662
A1J01:EW	#541
A1J01:M	#149
A1A10P02:CW	#358
A1A05J02:4	#545

A1A03-J08 - C.P.U. DIGITAL BRD 2 (COMMON)	
A1A17P01:10	#37
A1A03J08:10	#650
A1A03J08:15	#651
A1A03J08:26	#652
A1A03J08:31	#653
A1A03J08:36	#654
A1A12P01:DR	#725
A1A03J07:2	#656
A1A03J07:7	#657
A1A03J07:12	#658
A1A03J07:17	#659
A1A03J07:23	#660
A1A03J07:28	#661
A1A03J07:33	#662
A1A05J01:30	#728
A1A05J02:30	#729

A1A03-J09 - C.P.U. DIGITAL BRD 3 (J1)	
A1A03J12:26	#663
A1A20P01:N/O	#314
A1A40S01P01:2	#224
A1A40A01A01P01:12	#225
A1B16P202:17	#606
A1A09P01:N/C	#306
A1A13J03:K	#791
A1A40:3	#744
A1A12P07:L	#803
A1A20P01:N/C	#273
A1A40S01:N/O	#342
A1A40S01:N/O	#237
A1A40A01A01P01:11	#179
A1A15P12:M	#294

A1A03-J10 - C.P.U. DIGITAL BRD 3 (J2)	
A1A03J12:30	#617
A1A15P12:F	#191
A1A15P12:B	#183
A1A12P01:DN	#618
A1A40A01A01P01:13	#163
A1A04P02:14	#367
A1A05J02:5	#781
A1A40A01A01P01:6	#178
A1A10P01:DE	#169
A1A12P01:DM	#619
A1A40A03P01:2	#320
A1A05J01:5	#792
A1A05J01:5	#682
A1A12P01:DL	#620
A1A15P12:A	#205
A1A04P02:15	#372
A1A09P01:14	#170
A1A14J08:2	#282
A1A12P01:DK	#621
A1A40A01A01P01:5	#238
A1A10P01:DD	#284
A1A40A02P01:2	#292
A1A12P01:DJ	#622

A1A03-J11 - C.P.U. DIGITAL BRD 3 (J3)	
A1A03J12:29	#623
A1A12P01:DH	#624
A1A13J03:C	#625
A1A12P01:DF	#626
A1A32A01P05:2	#259
A1A12P01:DE	#627
A1A04P02:7	#256
A1A12P01:DD	#628
A1A40:2	#802
A1B16P202:8	#802
A1A13J03:D	#805
A1A23P01:3	#337
A1A12P01:DC	#630
A1A12P01:DB	#631
A1J01:BR	#255
A1A12P01:DA	#632

A1A03-J12 - C.P.U. +24 VDC SHUNT	
A1A12P01:K	#10
A1A04P01:8	#73
A1A40A01A01P01:1	#95
A1A04P01:6	#102
A1A04P02:5	#103
A1A04P02:8	#104
A1A32A01P05:1	#517
A1A22P01:4	#74
A1A25P01:4	#75
A1A04P01:4	#76
A1A20A05P01:4	#78
A1A26P01:4	#79
A1A23P01:4	#80
A1A20A07P01:1	#81
A1A40P01:2	#757
A1A40S01P01:4	#94
A1A40A02P01:1	#99
A1A40A03P01:1	#100
A1A04P01:9	#72
A1A04P02:16	#66
A1A04P02:12	#67
A1A04P02:13	#68
A1A04P02:9	#69
A1A03J05:1	#648
A1A03J06:1	#649
A1A03J09:1	#653
A1A03J03:1	#640
A1A03J02:1	#633
A1A03J11:1	#623
A1A03J10:1	#617
A1A03J01:1	#615
A1A03J07:1	#655
A1A40:1	#801

A1A03-J15 - C.P.U. ANALOG BRD 1 (COMMON)	
A1A28P01:SIG COM	#514
A1A10P01:K	#383
A1A10P01:N	#384
A1A10P01:L	#388
A1A10P01:P	#392
A1A10P02:K	#610
A1A10P02:N	#612
A1A10P02:L	#611
A1A10P02:B	#613
A1A13J02:H	#418
A1A13J02:H	#423
A1A19P01:F	#432
A1A19P01:J	#437
A1A20A05P01:10	#439
A1A20A05P01:13	#440
A1A20A05P01:13	#443
A1A09P01:9	#451
A1A13J03:W	#745
A1A09P01:5	#452
A1A13J03:X	#746
A1A15P12:K	#456
A1A14J07:4	#466
A1A16P202:16	#461
A1A08P01:D	#467
A1A08P01:D	#470
A1J01:AM	#476
A1A12P01:CE	#12
A1J01:AY	#559
A1J01:BE	#561
A1J01:BM	#564
A1A10P01:AD	#570
A1A10P01:AE	#571
A1A03P17:32	#657
A1A03J16:37	#639
A1J01:BF	#525
A1A03P18:32	#669

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CHECKED ENG APPVL		DATE	TITLE	
WIRE LIST No. 4179597101		DATE	SIZE NO.	4482005201
4079625501 NEXT ASSY	SLR 700 USED ON	EPL No. 4079625501	SCALE NONE	
FIRST APPLICATION		SE No.	CAD-FILENAME 82005A22 501	SHEET 2 OF 7

REVISIONS				
REV	ZONE	DESCRIPTION	DATE	REVISED BY
A	-	PRELIMINARY RELEASE	8/31/94	DJM

A1A03-J16 -- C.P.U. ANALOG BRD 2 (COMMON)				
A1A10P01:AH	#573	1	CH 1-6 COM	
A1A10P01:AJ	#574	2	CH 1-8 COM	
A1A10P02:AD	#583	3	CH 2-13 COM	
A1A10P02:AE	#584	4	CH 2-15 COM	
A1A10P02:AH	#585	5	CH 2-14 COM	
A1A10P02:AJ	#587	6	CH 2-16 COM	
A1A36A02J01:B	#773	7	HELIUM FLOW COM	
A1A36A03J01:SIG COM	#775	8	HELIUM PRESSURE COM	
A1A03P19:32	#671	9	ANALOG COMMON	
A1A03P20:2	#672	10	ANALOG COMMON	
A1A03P20:32	#681	11	ANALOG COMMON	
A1A40:4	#804	13	LOCK TURBO IS READY COM	
A1B16P202:16	#808	14	LOCK ION PRESSURE COM	
A1B16P202:-	#810	NO CONN	DRAIN FOR CABLE X	
A1B16P202:19	#809	15	LOCK ION DIG COM	
A1A13J03:X	#677	20	UPPER MAGNET ANALOG COM	
A1A13J03:Y	#678	21	LOWER MAGNET ANALOG COM	
A1A03J15:35	#639	37	ANALOG COMMON	

A1A03-P17 -- C.P.U. ANALOG BRD 1				
A1A10P01:W	#576	2	CH 1-7 SET POINT	
A1A10P01:V	#575	3	SH 1-5 SET POINT	
A1A10P01:B	#386	4	CH 1-3 SET POINT	
A1A10P01:A	#395	5	CH 1-1 SET POINT	
A1A10P01:AC	#569	6	CH 1-8 FLOW	
A1A10P01:X	#577	7	CH 1-7 FLOW	
A1A10P01:AA	#567	8	CH 1-6 FLOW	
A1A10P01:Y	#578	9	CH 1-5 FLOW	
A1A10P01:J	#394	10	CH 1-4 FLOW	
A1A10P01:C	#387	11	CH 1-3 FLOW	
A1A10P01:F	#391	12	CH 1-2 FLOW	
A1A10P01:D	#389	13	CH 1-1 FLOW	
A1A10P01:AB	#568	20	CH 1-8 SET POINT	
A1A10P01:Z	#579	21	CH 1-6 SET POINT	
A1A10P01:H	#393	22	CH 1-4 SET POINT	
A1A10P01:E	#390	23	CH 1-2 SET POINT	
A1A08P01:C	#471	29	ENDPOINT SIGNAL	
A1A16P202:15	#468	30	ION PRESSURE CH 1	
A1A20A05P01:20	#442	31	MANO PRESSURE (0-10V)	
A1A03J15:33	#667	32	ANALOG COMMON	
A1A16P202:NO CONN	#469	NO CONN	DRAIN	
A1A08P01:B	#472	NO CONN	DRAIN	
A1A10P01:M	#395	NO CONN	DRAIN	
A1A10P01:DA	#691	NO CONN	CH 1-1/4 DRAIN	
			CH 1-5/8 DRAIN	

A1A03-P18 -- C.P.U. ANALOG BRD 2				
A1A13J02:A	#419	2	BOT 2/HES 1 SET POINT	
A1A10P01:D	#435	3	TOP 1 SET POINT	
A1A20A05P01:9	#441	4	PRESSURE SET POINT CH 1	
A1A15P12:E	#459	5	RF 1 SET POINT	
A1A13J03:L	#793	8	RF 2 REF POWER	
A1A08P01:12	#453	9	RF 2 INCIDENT POWER	
A1A13J03:N	#747			
A1A14J07:8	#462	11	RF 1 DC VOLT	
A1A15P12:J	#457	12	RF 1 REFLECTED POWER	
A1A15P12:H	#458	13	RF 1 INCIDENT POWER	
A1A13J02:F	#421	20	TOP 2/HES 2 SET POINT	
A1A19P01:A	#433	21	BOTTOM 1 SET POINT	
A1J01:BN	#565	22	CH 2 PRESSURE STPT	
A1A08P01:13	#454	23	RF 2 SET POINT	
A1A13J03:P	#749			
A1J01:AN	#477	24	CH 2 CHMB ENDPOINT HEAD SIGNAL	
A1A13J02:J	#422	25	TOP 2/HES 1 TEMP	
A1A13J02:C	#420	26	BOTTOM 2/HES 1 TEMP	
A1A19P01:B	#434	27	BOTTOM 1 TEMP	
A1A19P01:C	#436	28	TOP 1 TEMP	
A1B16P202:15	#807	30	LOCK ION PRESSURE	
A1A28P01:PRESS OUT	#515	31	LOCK PRESSURE (0-10V)	
A1A03J15:37	#659	32	ANALOG COMMON	
A1A13J02:V	#424	NO CONN	DRAIN	
A1A19P01:E	#438	NO CONN	DRAIN	
A1A20A05P01:1	#444	NO CONN	DRAIN	
A1A08P01:SCRW	#455	NO CONN	DRAIN	
A1A15P12:RR	#460	NO CONN	DRAIN	
A1A14J07:NO CONN	#463	NO CONN	DRAIN	
A1A28P01:GND	#516	NO CONN	DRAIN	
A1A13J03:SCRW	#749	NO CONN	DRAIN	
A1J01:AX	#478	NO CONN	DRAIN	
A1A10P02:DA	#609	NO CONN	DRAIN	
			CH 2 13/16 DRAIN	

A1A03-P19 -- C.P.U. ANALOG BRD 3				
A1A10P02:W	#719	2	CH 2-15 SET POINT	
A1A10P02:V	#614	3	CH 2-13 SET POINT	
A1A10P02:B	#399	4	CH 2-11 SET POINT	
A1A10P02:A	#398	5	CH 2-9 SET POINT	
A1A10P02:AC	#582	6	CH 2-16 FLOW	
A1A10P02:X	#715	7	CH 2-15 FLOW	
A1A10P02:Y	#580	8	CH 2-14 FLOW	
A1A10P02:AA	#717	9	CH 2-13 FLOW	
A1A10P02:J	#711	10	CH 2-12 FLOW	
A1A10P02:C	#480	11	CH 2-11 FLOW	
A1A10P02:F	#481	12	CH 2-10 FLOW	
A1A10P02:D	#482	13	CH 2-9 FLOW	
A1A10P02:AB	#581	20	CH 2-16 SET POINT	
A1A10P02:Z	#718	21	CH 2-14 SET POINT	
A1A10P02:H	#485	22	CH 2-12 SET POINT	
A1A10P02:E	#395	23	CH 2-10 SET POINT	
A1J01:AZ	#568	30	CH 2 ION PRESSURE	
A1J01:BP	#566	31	CH 2 MANO PRESSURE (0-10V)	
A1A03J15:9	#671	32	ANALOG COMMON	
A1J01:BJ	#562	NO CONN	CH 2 DRAIN	
A1J01:BJ	#563			
A1A10P02:M	#712			

A1A03-P20 -- C.P.U. ANALOG BRD 4				
A1A03J16:10	#672	2	ANALOG COMMON	
A1A36A02J01:A	#772	4	HELIUM FLOW STPT CH 1	
A1A13J03:R	#673	5	UPPER MAGNET STPT CURRENT	
A1A36A03J01:PRESS OUT	#774	10	HELIUM PRESSURE CH 1	
A1A36A02J01:3	#771	11	HELIUM FLOW CH 1	
A1A13J03:U	#674	12	LOWER MAGNET CURRENT	
A1A13J03:S	#675	13	UPPER MAGNET CURRENT	
A1A13J03:T	#676	23	LOWER MAGNET STPT CURRENT	
A1A03J16:11	#681	32	ANALOG COMMON	
A1A13J03:Y	#679	NO CONN	DRAIN	
A1A13J03:Z	#680	NO CONN	DRAIN	
A1A36A03J01:GND	#776	NO CONN	DRAIN	
A1A36A02J01:1	#780	NO CONN	DRAIN	

A1A04-P01				
A1A05J02:20	#756	1	HELIUM DEISOL VALVE	
A1A03J12:15	#757	2	+24 VDC	
A1A03J03:29	#269	3	OPEN CH 1 ROUGH	
A1A03J12:10	#76	4	+24 VDC	
A1A03J02:28	#758	5	CLAMP GO UP CH 1	
A1A03J12:4	#102	6	+24 VDC	
A1A03J12:2	#73	8	+24 VDC	
A1A03J12:19	#72	9	+24 VDC	

A1A04-P02				
A1A03J12:5	#183	5	+24 VDC	
A1A05J02:27	#759	6	PED GO UP OK	
A1A03J11:14	#256	7	OPEN CH 1 SLOT VALVE	
A1A03J12:6	#184	8	+24 VDC	
A1A03J12:23	#69	9	+24 VDC	
A1A03J02:27	#307	10	OPEN ION ISOL CH 1	
A1A03J03:32	#266	11	OPEN TURBO PURGE	
A1A03J12:21	#67	12	+24 VDC	
A1A03J12:22	#68	13	+24 VDC	
A1A03J10:12	#367	14	SEL CHMB 1+/-	
A1A03J10:28	#372	15	RIE/PE ELECT SELECT SW	
A1A03J12:20	#65	16	+24 VDC	

A1A05-J01 -- STATUS INTERLOCK CARD (J1)				
A1A03J01:22	#187	1	CH 1 COVERS	
A1A36S01A:N/O	#378	2	CHMB CVR CH 1 SW	
A1A03J01:4	#231	3	CH 1 CHMB PROC LIMIT SW	
A1A36A01S02:N/O	#359			
A1A03J03:37	#335	4	TURBO GO ON CH 1	
A1A03J10:17	#682	5	ENABLE AIR	
A1A03J10:17	#792			
A1A1P01:2	#274	6	WATER ENABLE	
A1A03J01:27	#689			
A1A03J01:5	#220	7	GAS PANEL 1 ENABLE	
A1A18P16:15	#313	8	TURBO COM CH 1	
A1A18P16:11	#518	10	TURBO NO CH 1	
A1A05J01:31	#795	11	DC COMMON	
A1A03J03:15	#790	12	CLOSE THROTTLE	
A1A15P12:W	#371	14	RF 1 INTERLOCK	
A1A15P12:V	#353	15	RF 1 INTERLOCK	
A1A05J01:32	#794	16	RF 2 INTERLOCK	
A1A09P01:7	#235	17	-15V	
A1A12P01:CH	#726	28	+15V	
A1A12P01:AS	#727	29	DC COMMON	
A1A03J08:15	#720	30	DC COMMON	
A1A05J01:11	#795	31	DC COMMON	
A1A05J01:16	#794	32	DC COMMON	
A1A12P01:V	#723	35	+24VDC TO STATUS INTERLOCK	
A1A12P01:V	#735			
A1A10P01:CT	#328	36	24V FROM GAS PANEL 1	
A1A10P01:CS	#83	37	GAS PANEL 1 +24VDC	

A1A05-J02 -- STATUS INTERLOCK CARD (J2)				
A1A03J05:22	#158	1	CH 2 COVERS	
A1J01:AC	#377	2	CH 2 CHMB COVER CH 1 SW	
A1A03J05:4	#289	3	CH 2 CHMB PROCESS LIMIT SW	
A1J01:W	#352			
A1A03J07:37	#545	4	CH 2 TURBO GO ON	
A1A03J10:12	#781	5	SEL CHAMBER	
A1A03J05:5	#247	7	GAS PANEL CH 2 ENABLE	
A1J01:CV	#540	8	TURBO COM CH 2	
A1J01:CY	#543	10	TURBO NO CH 2	
A1A03J01:21	#616	14	+24V SUPPLY OK	
A1A03J01:2	#334	15	+15V SUPPLY OK	
A1A03J01:20	#263	16	-15V SUPPLY OK	
A1A05J02:31	#796	18	HELIUM COM	
A1A36A02J01:L	#767	19	HELIUM MFC CLOSE	
A1A04P01:1	#756	20	HELIUM DEISOL VALVE	
A1A03J02:30	#763	21	HELIUM DEISO CH 1	
A1A03J03:16	#182	26	RAISE CH 1 PEDESTAL	
A1A04P02:6	#759	27	PED GO UP OK	
A1A03J01:11	#762	28	CLAMP IS UP	
A1A03J01:12	#781	29	SLOT VALVE IS OPEN	
A1A03J00:15	#729	30	DC COMMON	
A1A05J02:18	#796	31	HELIUM COM	
A1A12P01:S	#724	35	+24VDC	
A1A12P01:Z	#736			
A1A10P02:CT	#375	36	24V FROM GAS PANEL 2	
A1A10P02:CS	#84	37	GAS PANEL 2 +24VDC	

A1A05-P03				
A1A20A05P01:3	#812	2		
A1A20A05P01:2	#811	3		
A1A20A05P01:7	#813	NO CONN		

A1A05-P04				
A1J01:DX	#815	2	THROTTLE PAL	
A1J01:DV	#814	3		
A1J01:DY	#816	NO CONN		

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	CHECKED	DATE	TITLE SCHEMATIC DIAGRAM, MAIN FRAME, SHUTTLE LOCK READY 700	
	ENG. APPVL.	DATE	SIZE D	NO. 4482005201
4079625501	SLR 700	EPL No.	SCALE NONE	CAO-FILENAME 82005A32.S01
NEXT ASSY	USED ON	4079625501	SHEET 3 OF 7	
FIRST APPLICATION	SE No.			

REVISIONS				
REV	ZONE	DESCRIPTION	DATE	REVISED BY
A	-	PRELIMINARY RELEASE	01/31/94	DJM

Part Number	Quantity	Notes
A1A12P01:CY	#111	
A1A03P17:NO CONN	#472	
A1A03P17:29	#471	
A1A03J15:22	#470	
A1A12P01:AS	#127	
A1A12P01:BZ	#145	

A1A08-P01 - ENDPOINT DETECTOR	
A	DC COMMON
B	DRAIN
C	ENDPOINT SIGNAL
D	ENDPOINT COMMON
E	+15 VDC
F	-15 VDC

Part Number	Quantity	Notes
A1A30A02P01:NO CONN	#481	
A1A30A02P01:B	#479	
A1A30A02P01:C	#480	
A1A30A02P01:D	#128	
A1A30A02P01:E	#146	
A1J01:V	#347	
A1A30A02P01:H	#362	
A1J01:K	#129	
A1J01:L	#147	

A1A08-P02 - ENDPOINT DETECTOR MEAD	
A	DRAIN
B	CH 1 CHMB ENDPOINT HEAD COM
C	CH 1 CHMB ENDPOINT HEAD SIGNAL
D	CH 1 CHMB HEAD +15 VDC
E	CH 1 CHMB HEAD -15 VDC
F	HEAD COOLING CIRCUIT
H	COOLING RETURN
J	+15 VDC
K	-15 VDC

Part Number	Quantity	Notes
A1A03J04:9	#20	
A1A03J15:18	#452	
A1A05J01:17	#235	
A1A13J03:J	#742	
A1A13J15:17	#451	
A1A03P18:9	#453	
A1A03P18:23	#454	
A1A13J03:F	#752	
A1A03J10:29	#170	
A1A03J04:5	#16	
A1A13J03:A	#738	
A1A03J09:9	#306	
A1A03P18:NO CONN	#455	

A1A09-P01 - RF GENERATOR 2	
1	DC COMMON
5	RF 2 SET POINT COM
7	RF 2 INT'LK
9	RF 2 POWER COMMON
12	RF 2 INCIDENT POWER
13	RF 2 SET POINT
14	ENABLE RF 2 / GO ON
15	DC COMMON
NO CONN	RF 2 IS ON
SCRW	DRAIN

Part Number	Quantity	Notes
A1A03P17:5	#385	
A1A03P17:8	#567	
A1A03P17:20	#568	
A1A03P17:6	#569	
A1A03J15:30	#570	
A1A03J15:31	#571	
A1A10P01:M	#572	
A1A03J16:1	#573	
A1A03J16:2	#574	
A1A03J02:13	#192	
A1A03J02:32	#296	
A1A03J02:14	#112	
A1A03J02:33	#218	
A1A03J02:18	#264	
A1A03J02:37	#308	
A1A03J02:19	#277	
A1A03J03:20	#316	
A1A03J03:5	#194	
A1A03P17:4	#386	
A1A03J03:24	#208	
A1A03J03:6	#186	
A1A03J03:25	#219	
A1A03J02:34	#171	
A1A03J02:16	#228	
A1A03J02:35	#155	
A1A03J02:17	#244	
A1A03J03:21	#287	
A1A03J03:3	#323	
A1A03J03:22	#296	
A1A03J03:4	#335	
A1A03J03:26	#173	
A1A03J03:8	#230	
A1A03J03:27	#157	
A1A03J03:9	#246	
A1A12P01:AT	#117	
A1A12P01:BR	#135	
A1A12P01:AW	#119	
A1A12P01:BU	#137	
A1A12P01:AZ	#120	
A1A12P01:P	#121	
A1A12P01:AU	#118	
A1A03P17:11	#387	
A1A12P01:BS	#136	
A1A12P01:BW	#138	
A1A10P01:U	#139	
A1A12P01:AM	#721	
A1A12P01:BM	#713	
A1A12P01:AL	#722	
A1A12P01:BL	#714	
A1A12P01:AK	#125	

A1A10-P01 - GAS PANEL 1 INTERFACE	
A	CH 1-1 SET POINT
AA	CH 1-6 FLOW
AB	CH 1-8 SET POINT
AC	CH 1-8 FLOW
AD	CH 1-5 COM
AE	CH 1-7 COM
AF	CH 1-1/4 DRAIN
AH	CH 1-6 COM
AJ	CH 1-8 COM
AP	OPEN CH 1-1 ISOL
AR	OPEN CH 1-2 ISOL
AS	OPEN CH 1-3 ISOL
AT	OPEN CH 1-4 ISOL
AU	OPEN CH 1-1 FLUSH
AV	OPEN CH 1-2 FLUSH
AW	OPEN CH 1-3 FLUSH
AX	OPEN CH 1-4 FLUSH
AZ	OPEN CH 1-1 PROCESS
B	CH 1-3 SET POINT
BA	OPEN CH 1-2 PROCESS
BB	OPEN CH 1-3 PROCESS
BC	OPEN CH 1-4 PROCESS
BD	OPEN CH 1-5 ISOL
BE	OPEN CH 1-6 ISOL
BF	OPEN CH 1-7 ISOL
BH	OPEN CH 1-8 ISOL
BJ	OPEN CH 1-5 FLUSH
BK	OPEN CH 1-6 FLUSH
BL	OPEN CH 1-7 FLUSH
BM	OPEN CH 1-8 FLUSH
BN	OPEN CH 1-5 PROCESS
BP	OPEN CH 1-6 PROCESS
BR	OPEN CH 1-7 PROCESS
BS	OPEN CH 1-8 PROCESS
BT	CH 1-1 +15 VDC
BU	CH 1-1 -15VDC
BV	CH 1-3 +15VDC
BW	CH 1-3 -15VDC
BX	CH 1-4 +15VDC
BY	HEATER CH 1 +15VDC
BZ	CH 1-2 +15VDC
CA	CH 1-3 FLOW
CB	CH 1-2 -15VDC
CC	CH 1-4 -15VDC
CE	HEATECH 1 -15VDC
CF	CH 1-5 +15VDC
CG	CH 1-5 -15VDC
CH	CH 1-7 +15VDC
CJ	CH 1-7 -15VDC
CK	CH 1-8 +15VDC

Part Number	Quantity	Notes
A1A12P01:AJ	#123	
A1A12P01:BK	#141	
A1A12P01:BJ	#143	
A1A03J01:23	#195	
A1A12P01:DT	#27	
A1A05J01:37	#83	
A1A05J01:36	#328	
A1A03J02:11	#333	
A1A03J02:9	#345	
A1A03J03:36	#344	
A1A12P01:W	#91	
A1A10P01:DA	#690	
A1A03P17:13	#369	
A1A03P17:NO CONN	#691	
A1A10P01:CZ	#690	
A1A12P01:BN	#720	
A1A03J10:34	#284	
A1A03J10:14	#169	
A1A03P17:23	#390	
A1A03P17:12	#391	
A1A03P17:22	#393	
A1A03P17:10	#394	
A1A03J15:2	#383	
A1A03J15:4	#388	
A1A03P17:NO CONN	#395	
A1A10P01:AF	#572	
A1A03J15:3	#384	
A1A03J15:5	#392	
A1A10P01:CC	#139	
A1A03P17:3	#575	
A1A03P17:2	#576	
A1A03P17:7	#577	
A1A03P17:9	#578	
A1A03P17:21	#579	

A1A10-P01 - GAS PANEL 1 INTERFACE (CONT.)	
CL	CH 1-6 +15VDC
CM	CH 1-6 -15VDC
CN	CH 1-8 -15VDC
CP	CH 1 PURGE ENABLE
CR	DC COMMON
CS	GAS PNL 1 +24VDC
CT	24V FROM GAS PANEL 1
CU	OPEN CH 1 PURGE
CV	OPEN CH 1 CHMB MANO ISOL
CW	OPEN CH 1 VENT
CY	GAS PANEL CH 1 MISC +24 VDC
CZ	CH 1-5/8 DRAIN
D	CH 1-1 FLOW
DA	CH 1-5/8 DRAIN
DB	HEATER +15 VDC
DD	OPEN LOCK PURGE
DE	OPEN LOCK GATE
E	CH 1-2 SET POINT
F	CH 1-2 FLOW
H	CH 1-4 SET POINT
J	CH 1-4 FLOW
K	CH 1-1 COM
L	CH 1-3 COM
M	CH 1-1/4 DRAIN
N	CH 1-2 COM
P	CH 1-4 COM
U	HEATECH 1 -15VDC
V	CH 1-5 SET POINT
W	CH 1-7 SET POINT
X	CH 1-7 FLOW
Y	CH 1-5 FLOW
Z	CH 1-6 SET POINT

Part Number	Quantity	Notes
A1A03P19:5	#398	
A1A03P19:8	#580	
A1A03P19:20	#581	
A1A03P19:6	#582	
A1A03J16:3	#583	
A1A03J16:4	#584	
A1A10P02:M	#585	
A1A03J16:5	#586	
A1A03J16:6	#587	
A1A03J06:13	#692	
A1A03J06:32	#693	
A1A03J06:14	#694	
A1A03J06:33	#695	
A1A03J06:18	#696	
A1A03J06:37	#697	
A1A03J06:19	#698	
A1A03J07:20	#699	
A1A03J07:5	#700	
A1A03P19:4	#399	
A1A03J07:24	#701	
A1A03J07:6	#670	
A1A03J07:25	#702	
A1A03J06:34	#588	
A1A03J06:16	#589	
A1A03J06:35	#590	
A1A03J06:17	#591	
A1A03J07:21	#592	
A1A03J07:3	#593	
A1A03J07:22	#594	
A1A03J07:4	#595	
A1A03J07:26	#596	
A1A03J07:6	#597	
A1A03J07:9	#598	
A1A03J07:9	#599	
A1A12P01:BB	#122	
A1A12P01:BY	#140	
A1A12P01:AX	#124	
A1A12P01:BV	#142	
A1A12P01:BA	#703	
A1A12P01:AP	#126	
A1A12P01:AV	#704	
A1A03P19:11	#400	
A1A12P01:BT	#705	
A1A12P01:BX	#706	
A1A10P02:U	#707	
A1A12P01:BH	#600	
A1A12P01:CF	#601	
A1A12P01:BF	#602	
A1A12P01:CB	#603	
A1A12P01:BE	#604	
A1A12P01:BD	#605	
A1A12P01:CA	#606	

A1A10-P02 - GAS PANEL 2 INTERFACE	
A	CH 2-9 SET POINT
AA	CH 2-14 FLOW
AB	CH 2-16 SET POINT
AC	CH 2-16 FLOW
AD	CH 2-13 COM
AE	CH 2-15 COM
AF	CH 2 DRAIN
AH	CH 2-14 COM
AJ	CH 2-16 COM
AP	OPEN CH 2-9 ISOL
AR	OPEN CH 2-10 ISOL
AS	OPEN CH 2-11 ISOL
AT	OPEN CH 2-12 ISOL
AU	OPEN CH 2-9 FLUSH
AV	OPEN CH 2-10 FLUSH
AW	OPEN CH 2-11 FLUSH
AX	OPEN CH 2-12 FLUSH
AZ	OPEN CH 2-9 PROCESS
B	CH 2-11 SET POINT
BA	OPEN CH 2-10 PROCESS
BB	OPEN CH 2-11 PROCESS
BC	OPEN CH 2-12 PROCESS
BD	OPEN CH 2-13 ISOL
BE	OPEN CH 2-14 ISOL
BF	OPEN CH 2-15 ISOL
BH	OPEN CH 2-16 ISOL
BJ	OPEN CH 2-13 FLUSH
BK	OPEN CH 2-14 FLUSH
BL	OPEN CH 2-15 FLUSH
BM	OPEN CH 2-16 FLUSH
BN	OPEN CH 2-13 PROCESS
BP	OPEN CH 2-14 PROCESS
BR	OPEN CH 2-15 PROCESS
BS	OPEN CH 2-16 PROCESS
BT	CH 2-9 +15VDC
BU	CH 2-9 -15VDC
BV	CH 2-11 +15VDC
BW	CH 2-11 -15VDC
BX	CH 2-12 +15VDC
BY	HEATER CH 2 +15VDC
BZ	CH 2-10 +15VDC
CA	CH 2-11 FLOW
CB	CH 2-10 -15VDC
CC	CH 2-12 -15VDC
CE	HEATER CH 2 -15VDC
CF	CH 2-13 +15VDC
CH	CH 2-13 -15VDC
CJ	CH 2-15 +15VDC
CK	CH 2-15 -15VDC
CL	CH 2-16 +24VDC
CM	CH 2-14 +15VDC
	CH 2-14 -15VDC

Part Number	Quantity	Notes
A1A12P01:BJ	#607	
A1A03J05:23	#174	
A1A12P01:DU	#26	
A1A05J02:37	#84	
A1A05J02:36	#375	
A1A03J06:11	#295	
A1A03J06:9	#177	
A1A03J07:36	#358	
A1A12P01:J	#709	
A1A10P02:DA	#608	
A1A03P19:13	#402	
A1A03P18:NO CONN	#609	
A1A10P02:CZ	#608	
A1A12P01:AR	#144	
A1A12P01:BP	#710	
A1A03P19:23	#396	
A1A03P19:12	#401	
A1A03P19:22	#408	
A1A03P19:10	#711	
A1A03J15:6	#610	
A1A03J15:8	#611	
A1A03P19:NO CONN	#712	
A1A10P02:AF	#585	
A1A03J15:7	#612	
A1A03J15:9	#613	
A1A10P02:CC	#707	
A1A03P19:3	#614	
A1A03P19:2	#719	
A1A03P19:7	#715	
A1A03P19:9	#717	
A1A03P19:21	#718	

A1A10-P02 - GAS PANEL 2 INTERFACE (CONT.)	
CN	CH 2-16 -15VDC
CP	CH 2 PURGE ENABLE
CR	DC COMMON
CS	GAS PANEL 2 +24VDC
CT	24V FROM GAS PANEL 2
CU	OPEN CH 2 PURGE
CV	OPEN CH 2 MANO ISOL
CW	OPEN CH 2 VENT
CY	+24 VDC
CZ	CH 2-13/16 DRAIN
D	CH 2-9 FLOW
DA	CH 2-13/16 DRAIN
DB	HEATER CH 2 +15VDC
DC	HEATER CH 2 -15VDC
E	CH 2-10 SET POINT
F	CH 2-10 FLOW
H	CH 2-12 SET POINT
J	CH 2-12 FLOW
K	CH 2-9 COM
L	CH 2-11 COM
M	CH 2 DRAIN
N	CH 2-10 COM
P	CH 2-12 COM
U	HEATER CH 2 -15VDC
V	CH 2-13 SET POINT
W	CH 2-15 SET POINT
X	CH 2-15 FLOW
Y	CH 2-13 FLOW
Z	CH 2-14 SET POINT

Part Number	Quantity	Notes
A1A05J01:6	#274	
A1J01:T	#275	
A1A12P01:R	#89	
A1A13J03:H	#743	
A1A03J04:10	#21	
A1A12P01:CZ	#44	

A1A11-P01 - WATER FLOW SWITCH	
2	WATER ENABLE
2	ELECTRIC HEAT INT'LK
3	WATER FLOW SWITCH +24VDC
4	MAG #1 INT'LK/MAG #2 INT'LK
5	DC COMMON
6	WATER FLOW SWITCH DC COMMON

REVISIONS				
REV	ZONE	DESCRIPTION	DATE	REVISED BY
A	-	PRELIMINARY RELEASE	8/31/94	DJM

A1A12-P01 - DC DISTRIBUTION

A1A29A01S02P01:3	#797	A	+24 VDC
A1J01:J	#181		
A1A14J06A:1	#43	AA	RF COVER CH 1 INT'LK +24V
A1A02P02:~	#734	AB	+24 VDC
A1A10P01:CL	#123	AJ	CH 1-6 +15VDC
A1A10P01:CK	#125	AK	CH 1-8 +14VDC
A1A10P01:CH	#722	AL	CH 1-7 +15VDC
A1A10P01:CE	#721	AM	CH 1-5 +15VDC
A1A36A02J01:4	#758	AN	HE-MFC +15VDC
A1A36A03J01:~15V	#777		
A1A10P02:BY	#126	AP	HEATER CH 2 +15VDC
A1A10P02:DB	#144	AR	HEATER CH 2 +15V
A1A28P01:~15V	#730		
A1A08P01:E	#127	AS	+15 VDC
A1A05J01:29	#727		
A1A13J03:aa	#740		
A1A10P01:BT	#117	AT	CH 1-1 +15VDC
A1J01:EA	#817		
A1A10P01:BZ	#118	AU	CH 1-2 +15VDC
A1J01:EB	#818		
A1A10P02:BZ	#704	AV	CH 2-10 +15VDC
A1A10P01:BV	#119	AW	CH 1-3 +15VDC
A1A10P02:BV	#124	AX	CH 2-11 +15VDC
A1A30A01S01:15	#750	AY	+15V
A1A20A05P01:12	#754		
A1A10P01:BX	#120	AZ	CH 1-4 +15VDC
A1J01:H	#92		
A1A10P02:BX	#703	BA	CH 2-12 +15VDC
A1A10P02:BT	#122	BB	CH 2-9 +15VDC
A1A14J07:1	#130	BC	NETWORK +15VDC
A1A10P02:CL	#605	BD	CH 2-14 +15VDC
A1A10P02:CK	#604	BE	CH 2-16 +15VDC
A1A10P02:CH	#602	BF	CH 2-15 +15VDC
A1A10P02:CE	#600	BH	CH 2-13 +15VDC
A1A10P01:CN	#143	BJ	CH 1-8 -15VDC
A1A10P02:CN	#607	BK	CH 2-16 -15VDC
A1A10P01:CM	#141	BK	CH 1-6 -15VDC
A1J01:EC	#819		
A1A10P01:CJ	#714	BL	CH 1-7 -15VDC
A1J01:ED	#820		
A1A10P01:CF	#713	BM	CH 1-5 -15VDC
A1A10P01:OB	#720	BN	HEATER +15VDC
A1A10P02:DC	#710	BP	HEATER CH 2 -15VDC
A1A10P01:BU	#135	BR	CH 1-1 -15VDC
A1A13J03:bb	#741		
A1A10P01:CA	#138	BS	CH 1-2 -15VDC
A1A10P02:CA	#705	BT	CH 2-10 -15VDC
A1A10P01:BW	#137	BU	CH 1-3 -15VDC
A1A10P02:BW	#142	BV	CH 2-11 -15VDC
A1A10P01:CB	#138	BW	CH 1-4 -15VDC
A1A10P02:CB	#706	BX	CH 2-12 -15VDC
A1A10P02:BU	#140	BY	CH 2-9 -15VDC
A1A08P01:F	#145	BZ	NETWORK -15 VDC
A1A14J07:2	#148		
A1J01:E	#77	C	+24 VDC
A1A10P02:CM	#696	CA	CH 2-14 -15VDC
A1A10P02:CJ	#603	CB	CH 2-15 -15VDC
A1A36A02J01:F	#769	CC	HE/MFC -15VDC
A1A36A03J01:~15V	#778		
A1A03J04:15	#1	CD	DC COMMON
A1A03J15:24	#12	CE	ANALOG COMMON
A1A10P02:CF	#601	CF	CH 2-13 -15VDC
A1A05J01:28	#726	CH	-15V
A1A28P01:~15V	#731		
A1A30A01S01:~15	#751	CJ	-15V
A1A20A05P01:21	#755		
A1A03J03:33	#647	CM	DC COMMON
A1A03J03:23	#645	CN	DC COMMON
A1A03J03:28	#646	CP	DC COMMON
A1A03J03:17	#644	CR	DC COMMON
A1A03J03:12	#643	CS	DC COMMON
A1A03J03:7	#642	CT	DC COMMON
A1A03J03:2	#641	CU	DC COMMON
A1A03J02:10	#534	CV	DC COMMON
A1A03J02:15	#635	CW	DC COMMON
A1A03J02:26	#636	CX	DC COMMON
A1A08P01:A	#111	CY	DC COMMON
A1A03J02:31	#637		
A1A11P01:6	#44	CZ	WATER 1 FLOW SWITCH DC COMMON
A1A03J02:36	#638		
A1J01:DT	#558	D	+24 VDC
A1A03J11:33	#632	DA	DC COMMON
A1A03J11:28	#631	DB	DC COMMON
A1A03J11:23	#630	DC	DC COMMON
A1A03J11:17	#628	DD	DC COMMON
A1A03J11:12	#627	DE	DC COMMON
A1A03J11:7	#626	DF	DC COMMON
A1A03J11:2	#624	DH	DC COMMON
A1A03J10:36	#622	DJ	DC COMMON
A1A03J10:31	#621	DK	DC COMMON

A1A12-P01 - DC DISTRIBUTION (CONT.)

A1A03J10:26	#620	DL	DC COMMON
A1J01:EE	#821		
A1A03J10:15	#619	DM	DC COMMON
A1J01:EF	#822		
A1A03J10:10	#618	DN	DC COMMON
A1A28P01:DC COMMON	#732	DP	HE/MFC COMMON
A1A36A02J01:2	#770		
A1A36A03J01:COM	#779		
A1J01:DM	#554	DR	DC COMMON
A1A03J08:7	#725		
A1J01:DL	#553	DS	DC COMMON
A1A10P01:CR	#27	DT	DC COMMON
A1J01:DK	#552		
A1A10P02:CR	#26	DU	DC COMMON
A1J01:DJ	#551		
A1J01:DH	#550	DV	DC COMMON
A1J01:DF	#549	DW	DC COMMON
A1J01:DE	#548	DX	DC COMMON
A1J01:DD	#547	DY	DC COMMON
A1J01:DC	#542	DZ	DC COMMON
A1J01:DS	#557	F	CH 2 FREQ. CONV. COM
A1J01:B	#36	EA	+24 VDC
A1J01:AT	#57	EB	DC COMMON
A1J01:DR	#556	F	DC COMMON
A1A13J03:B	#739		
A1J01:DP	#555	H	+24 VDC
A1A10P02:CY	#709	J	+24 VDC
A1A03J12:1	#10	K	+24 VDC
A1J01:F	#85	L	CH 2 CHMB GATE VALVE +24 VDC
A1A20A02P01:1	#86	M	CH 1 CHMB GATE VALVE +24 VDC
A1A19P01:DD	#87	N	HI TEMP CNTRCH 2 +24 VDC
A1A10P01:BY	#121	P	HEATER CH 1 +15 VDC
A1A11P01:3	#89	R	WATER FLOW SWITCH +24 VDC
A1J01:BU	#65	S	+24 VDC
A1A05J02:35	#724		
A1A14J08:1	#88	T	VACUUM RELAY +24 VDC
A1A33J01:2	#107	V	+24 VDC
A1A05J01:35	#735	V	+24 VDC TO STATUS INT'LK
A1A05J01:35	#723		
A1A10P01:CY	#91	W	GAS PANEL CH 1 MISC +24 VDC
A1J01:C	#78	X	+24 VDC
A1J01:D	#71	Y	+24 VDC
A1A05J02:35	#736	Z	+24 VDC

A1A12-P07			
A1A27J38:A	#4	A	MACH POWER ON SW
A1A02P01:1	#7	B	EMO INT'LK
A1A27J38:C	#3	C	MACH POWER 24VAC
A1A27J38:D	#11	D	24VAC COM
A1A27J38:E	#236	E	MECH CH1 PUMP STOP SW
A1A27J38:F	#250	F	MECH CH1 PUMP START SW
A1A03J01:32	#302	H	MECH CH1 PUMP ON
A1A27J38:J	#180	J	LOCK PUMP STOP SW
A1A27J38:K	#363	K	LOCK PUMP START SW
A1A03J09:20	#273	L	LOCK PUMP ON
A1A27J38:M	#161	M	BLOWER CH1 ENABLE SW
A1A27J38:N	#309	N	BLOWER LAMP
A1A03J01:14	#311	P	BLOWER CH1 ON
A1A27J38:R	#684	R	MECH CH2 PUMP STOP SW
A1A27J38:S	#685	S	MECH CH2 PUMP START SW
A1A03J05:32	#687	T	MECH CH2 PUMP ON
A1A27J38:U	#683	U	BLOWER CH2 ENABLE W
A1A27J38:V	#737	V	
A1A03J05:14	#688	W	BLOWER CH2 ON

A1A13-J02			
A1A03P18:2	#419	A	BOT 2/HES 1 SET POINT
A1A03J15:10	#418	B	BOT 2/HES 1 COM
A1A03P18:26	#420	C	BOT 2/HES 1 TEMP
A1A03P18:20	#421	F	TOP 2/HES 2 SET POINT
A1A03J15:11	#423	H	TOP 2/HES 2 COM
A1A03P18:25	#422	J	TOP 2/HES 2 TEMP
A1A19P01:2	#426	K	BOT 2 SET POINT
A1A19P01:8B	#429	L	TOP 2 TEMP
A1A03J04:11	#22	M	DC COMMON
A1A03J07:7	#261	N	HEAT 1 ON
A1A19P01:Y	#430	P	TOP 2 COM
A1A19P01:AA	#427	R	BOT 2 TEMP
A1A19P01:X	#425	S	BOT 2 COM
A1A19P01:CC	#428	T	TOP 2 SET POINT
A1A19P01:V	#431	U	DRAIN
A1A03P18:~	#424	V	DRAIN
A1A27J38:B	#5	W	EMO INT'LK
A1A02P01:2	#6	X	EMO INT'LK

A1A09P01:15	#738	A	DC COMMON
A1A12P01:AS	#740	AB	+15VDC
A1A12P01:F	#739	B	+24VDC
A1A12P01:BR	#741	BD	-15VDC
A1A03J11:3	#625	C	UPR MAGNET GO ON
A1A03J11:21	#629	D	LWR MAGNET GO ON
A1A14J08:2	#753	E	SELECT RF2
A1A14J08:2	#798		
A1A09P01:14	#752	F	ENABLE RF2
A1A18P16:11	#304	FF	TURBO NO CH1
A1A11P01:4	#743	H	MAG #1 INT'LK/MAG #2 INT'LK
A1A09P01:7	#742	J	RF2 INT'LK
A1A03J09:9	#744	K	MICROWAVE IS ON
A1A03J09:9	#791		
A1A03P18:8	#793	L	RF2 REF POWER
A1A03P18:9	#747	N	RF2 INCIDENT POWER
A1A03P18:23	#748	P	RF2 SET POINT
A1A03P20:5	#673	R	UPR MAGNET STPT CURRENT
A1A03P20:13	#675	S	UPR MAGNET CURRENT
A1A03P18:~	#749	SCRW	DRAIN
A1A03P20:23	#076	T	LWR MAGNET STPT CURRENT
A1A03P20:12	#674	U	LWR MAGNET CURRENT
A1A03J16:20	#677	W	UPR MAGNET ANALOG COM
A1A03J15:17	#745	W	RF2 POWER COM
A1A03J16:21	#678	X	LWR MAGNET ANALOG COM
A1A03J15:18	#746	X	RF2 SET POINT COM
A1A03P20:~	#679	Y	DRAIN
A1A03P20:~	#680	Z	DRAIN

A1A14-J06A			
A1A12P01:AA	#43	1	RF CVR CH1 INT'LK + 24V
A1A30J01:5	#389	3	RF CVR CH1 INT'LK
A1J01:AB	#368		

A1A14-J07			
A1A12P01:BC	#130	1	NETWORK + 15VDC
A1A12P01:BZ	#148	2	NETWORK - 15VDC
A1A03J15:20	#461	4	RF 1 DC VOLT COM
A1A15P12:N	#464	5	DC VOLTS COM RF 1
A1A03P18:11	#462	B	RF 1 DC VOLT
A1A15P12:D	#465	9	DC VOLTS RF 1
A1A15P12:RR	#466	-	DRAIN
A1A03P18:~	#463	-	DRAIN

A1A14-J08			
A1A12P01:T	#88	1	VAC RELAY + 24V
A1A13J03:E	#798	2	SELECT RF2
A1A03J10:30	#282		
A1A13J03:E	#753		

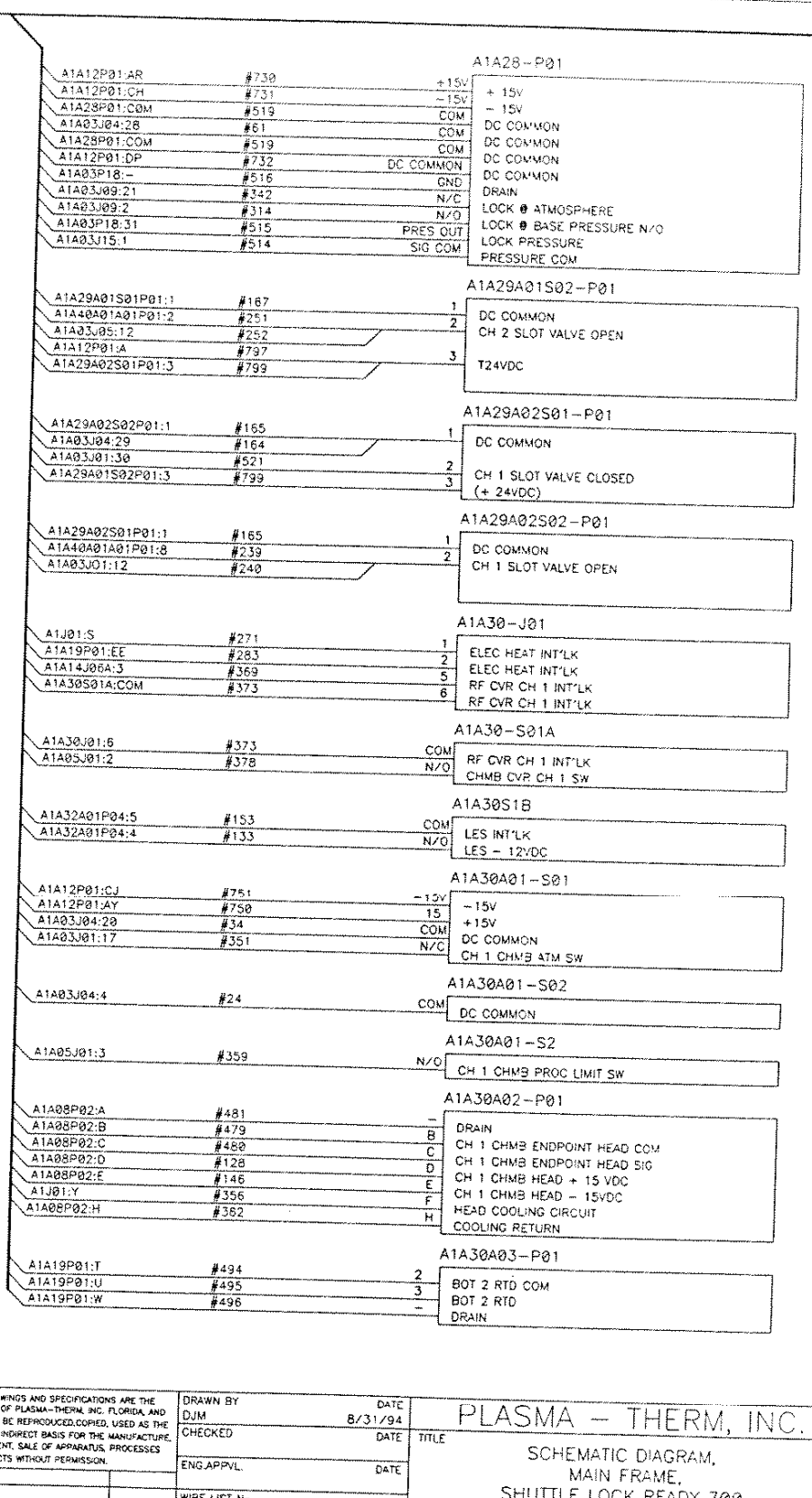
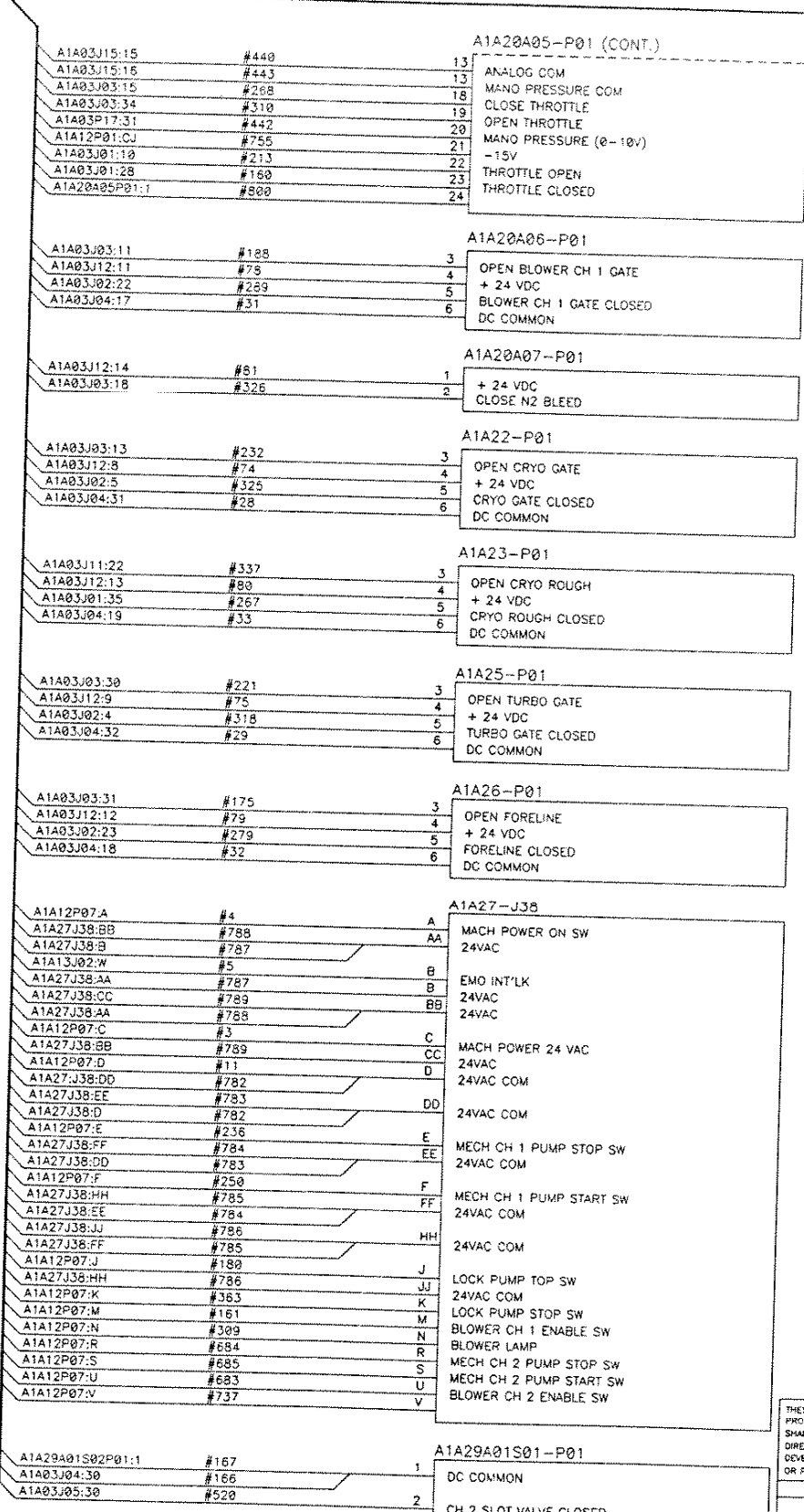
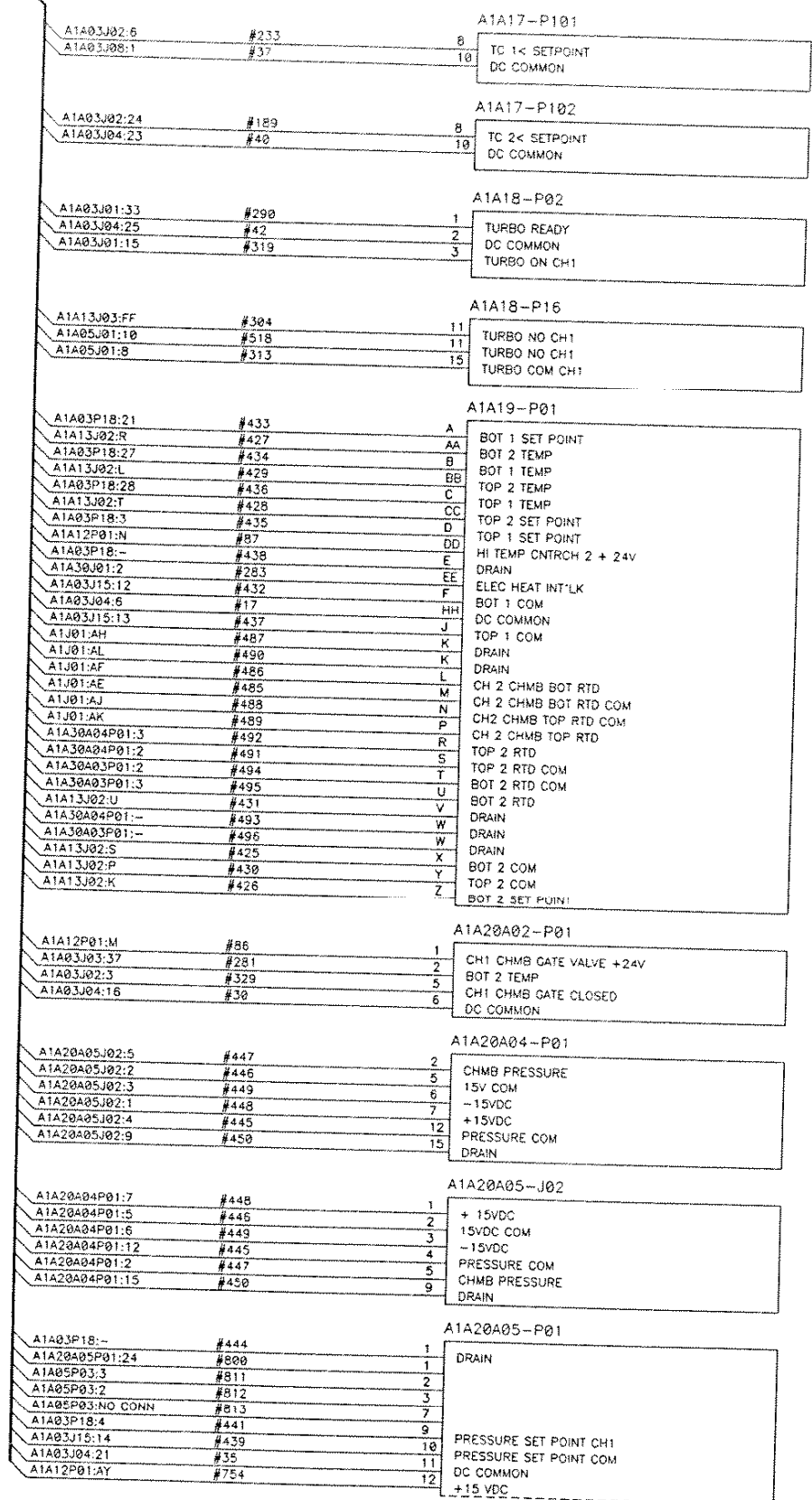
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A1A03J10:27	#205	A	RF 1 PWR/VLT CONTROL
A1A03J10:9	#183	B	RF 1 RF/DC VLT CONTROL
A1A14J07:9	#465	D	DC VOLTS RF1
A1A03P18:5	#459	E	RF 1 SET POINT
A1A03J10:8	#191	F	RF 1 GO ON
A1A03P18:13	#458	H	RF 1 INCIDENT POWER
A1A03P18:12	#457	J	RF 1 REFLECTED POWER
A1A03J15:19	#456	K	RF 1 POWER CH 1 COM
A1A03J09:27	#294	M	RF 1 ON
A1A14J07:5	#464	N	DC VOLTS COM RF 1
A1A03P18:~	#460	RR	DRAIN
A1A14J07:~	#466		
A1A05J01:15	#353	V	RF 1 INT'LK
A1A05J01:14	#371	W	RF 1 INT'LK

A1A16-P202			
A1A03J02:8	#262	B	I.G. REMOTE START/STOP
A1A03P17:30	#468	15	IGN PRESSURE CH1
A1A03J15:21	#467	16	IGN PRESSURE COM CH1
A1A03J01:3	#286	17	IGN GUAGE CH1 ON
A1A03J04:12	#23	19	DC COMMON
A1A03P17:~	#469	-	DRAIN

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WIRE LIST No. 4179597101	EPL No. 4079625501	DATE	SCALE NONE
FIRST APPLICATION	USED ON SLR 700	SE No.	SHEET 5 OF 7

REV		ZONE		REVISIONS		DATE	REVISED BY
A	-	-	-	DESCRIPTION		8/31/94	DJM
				PRELIMINARY RELEASE			



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 ENG. APPVL: [ ]  
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 SE No. 4079625501

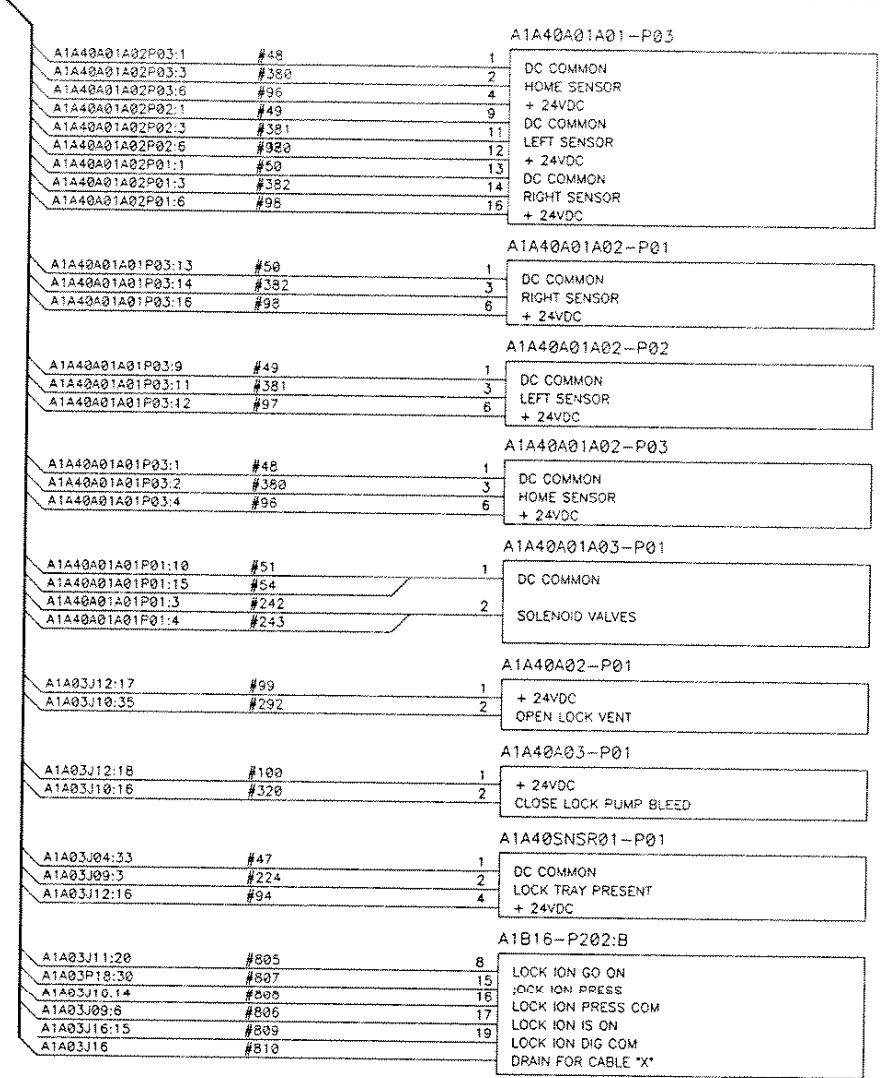
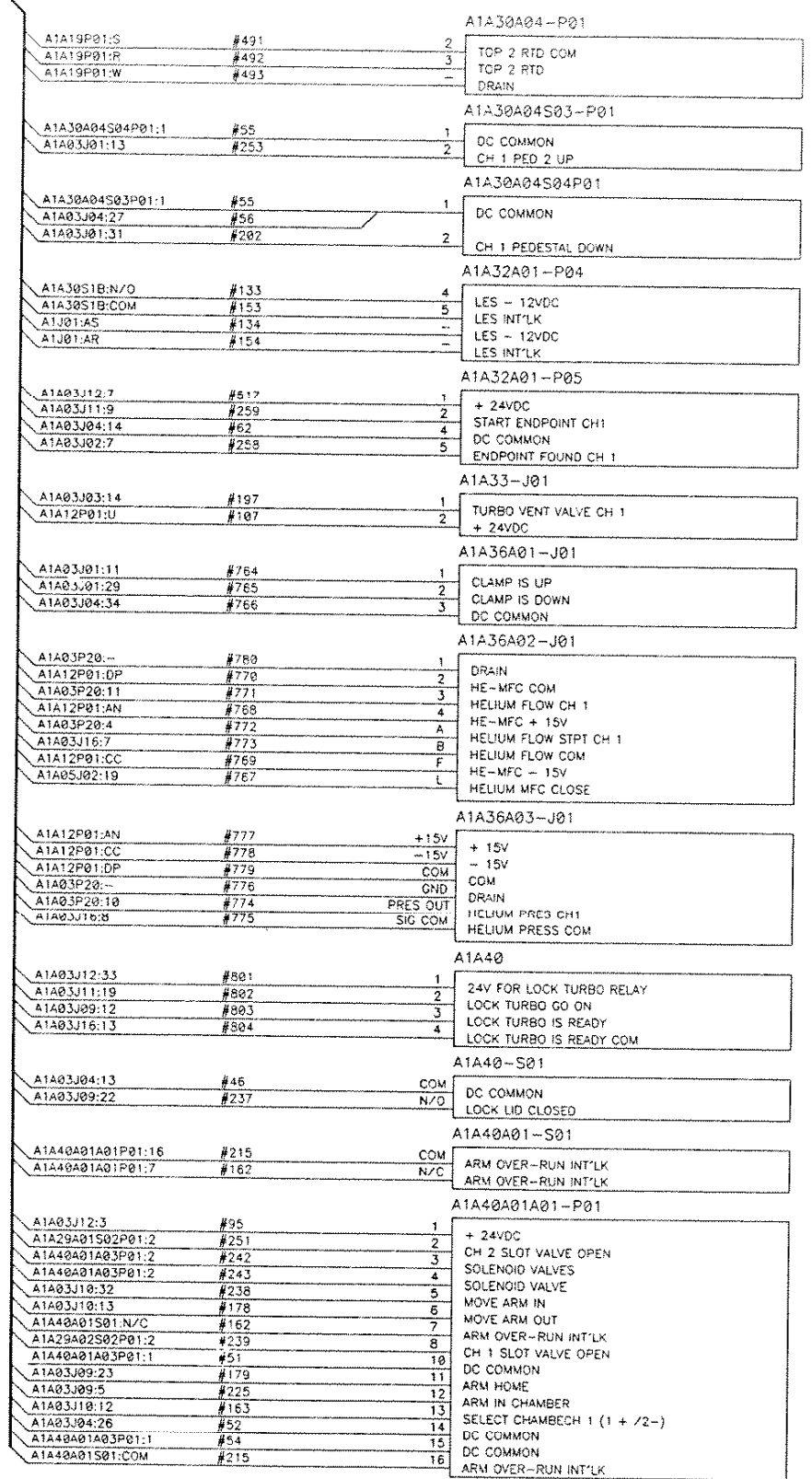
DATE: 8/31/94  
 DATE: [ ]  
 DATE: [ ]

TITLE: PLASMA - THERM, INC.  
 SCHEMATIC DIAGRAM, MAIN FRAME, SHUTTLE LOCK READY 700

SIZE: D  
 NO. 4482005201

FIRST APPLICATION  
 SCALE: NONE  
 CAD-FILENAME: 82005452.S01  
 SHEET: 6 OF 7

REVISIONS				
REV	ZONE	DESCRIPTION	DATE	REVISED BY
A	-	PRELIMINARY RELEASE	8/31/94	DJM

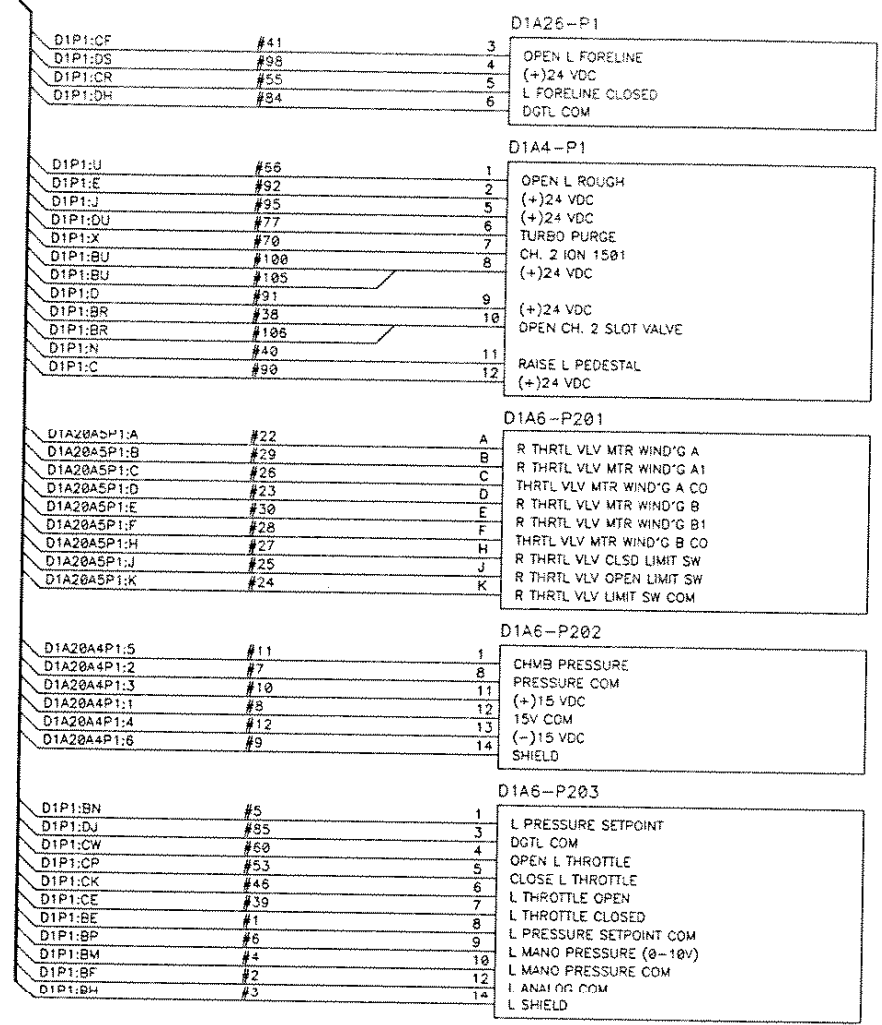


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CHECKED		DATE	TITLE SCHEMATIC DIAGRAM, MAIN FRAME, SHUTTLE LOCK READY 700	
ENG APPVL.		DATE	SIZE D	NO. 4482005201
WIRE LIST No. 4079625501 NEXT ASSY		4179597101 SLR 700 USED ON	EPL No. 4079625501	SCALE NONE
FIRST APPLICATION		SE No.	CAD-FILENAME B2005A52.S01	SP-EET 7 OF 7



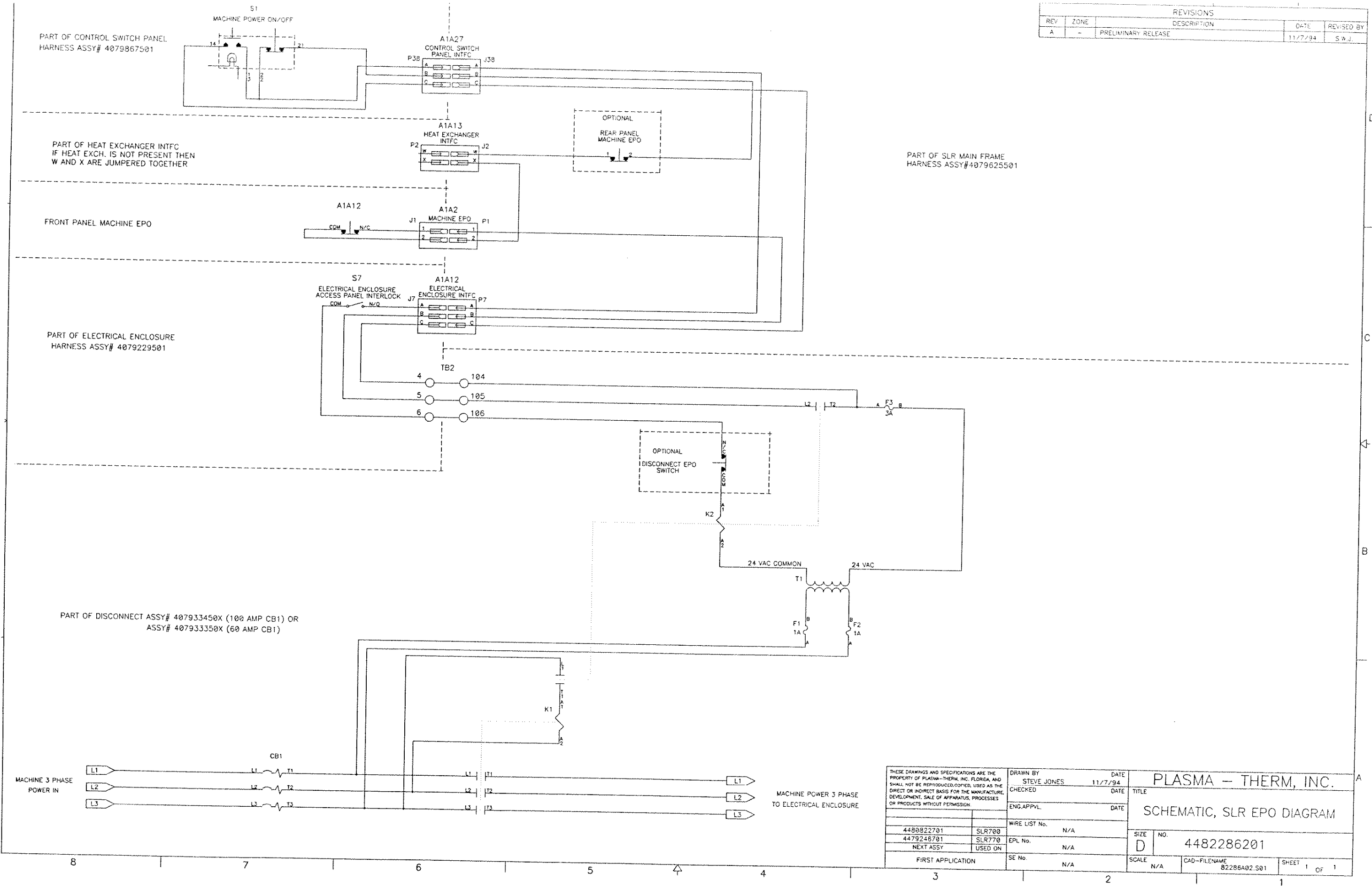


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REV	ZONE	DESCRIPTION	DATE	REVISED BY
A	-	PRELIMINARY RELEASE	10/11/94	DJM



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		CHECKED	DATE	
		ENG. APPVL.	DATE	SCHEMATIC DIAGRAM, DOCKING MODULE, HARNESS
		WIRE LIST No.	4176789101	
4076790501	SLR700	EPL No.	4076790501	SIZE D
NEXT ASSY	USED ON	SE No.	NONE	NO. 4482188201
FIRST APPLICATION	SE No.	SCALE	NONE	CAD-FILENAME
		SHEET	2 OF 2	

REVISIONS				
REV	ZONE	DESCRIPTION	DATE	REVISED BY
A	-	PRELIMINARY RELEASE	11/7/94	S.W.J.



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		CHECKED	DATE	
		ENG. APPL.	DATE	SIZE D
4480822701	SLR700	WIRE LIST No.	N/A	NO. 4482286201
4479246701	SLR770	EPL No.	N/A	SCALE N/A
NEXT ASSY USED ON	SE No.	N/A	N/A	CAD-FILENAME 82286A02.S01
FIRST APPLICATION	SHEET 1 OF 1			