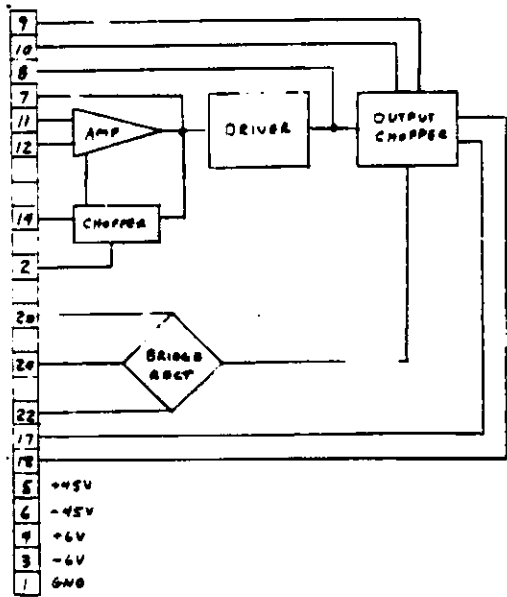


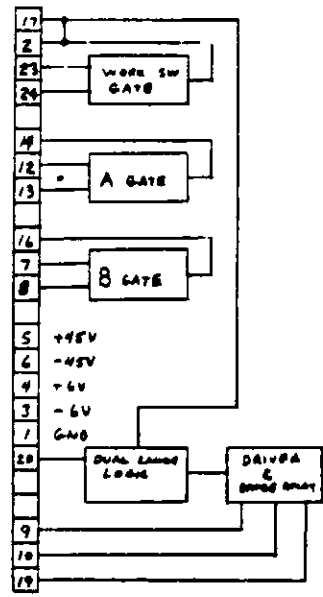
WL-3 Shear

Electronic Schematics  
Section

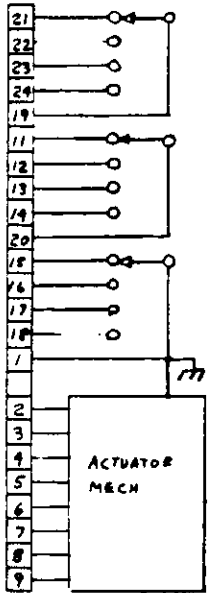
### 100-050 BGM AMPLIFIER



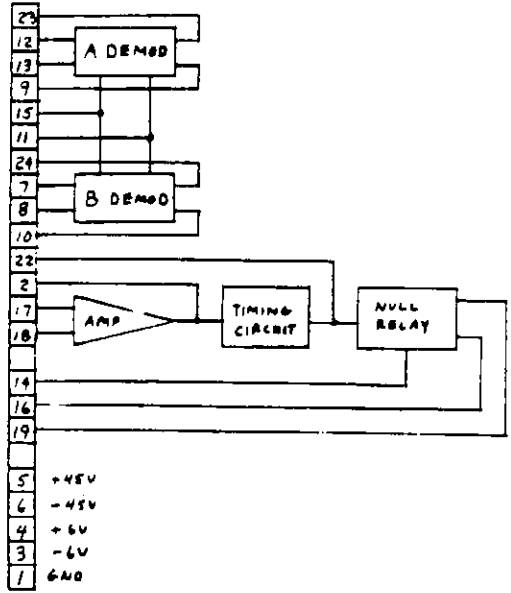
### 100-060 WII LOGIC



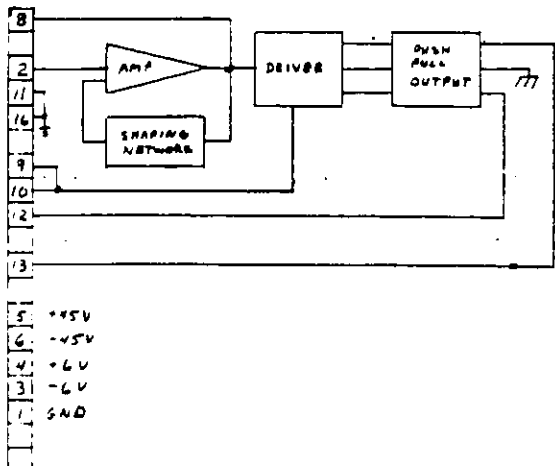
### 100-070 BGM LOGIC



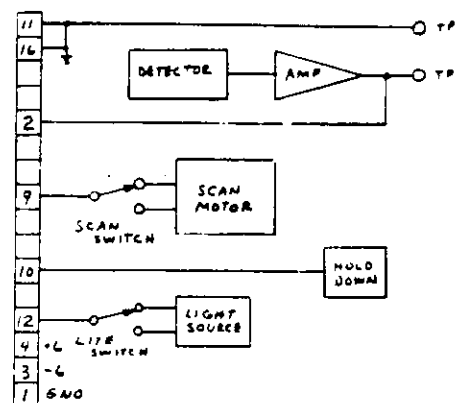
### 100-080 WII LOGIC

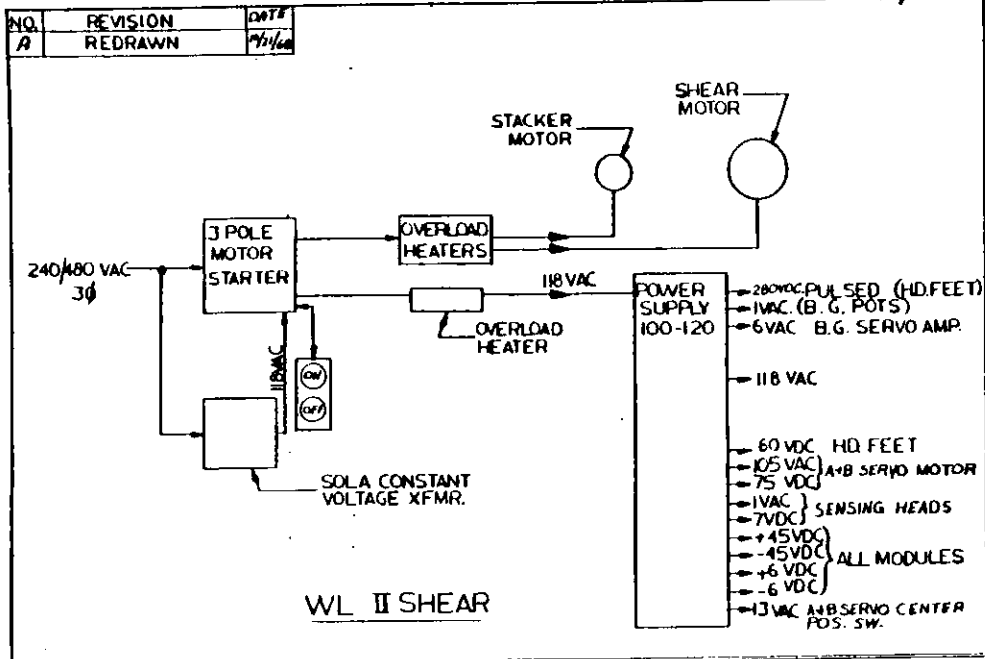


### 100-090 SERVO AMP

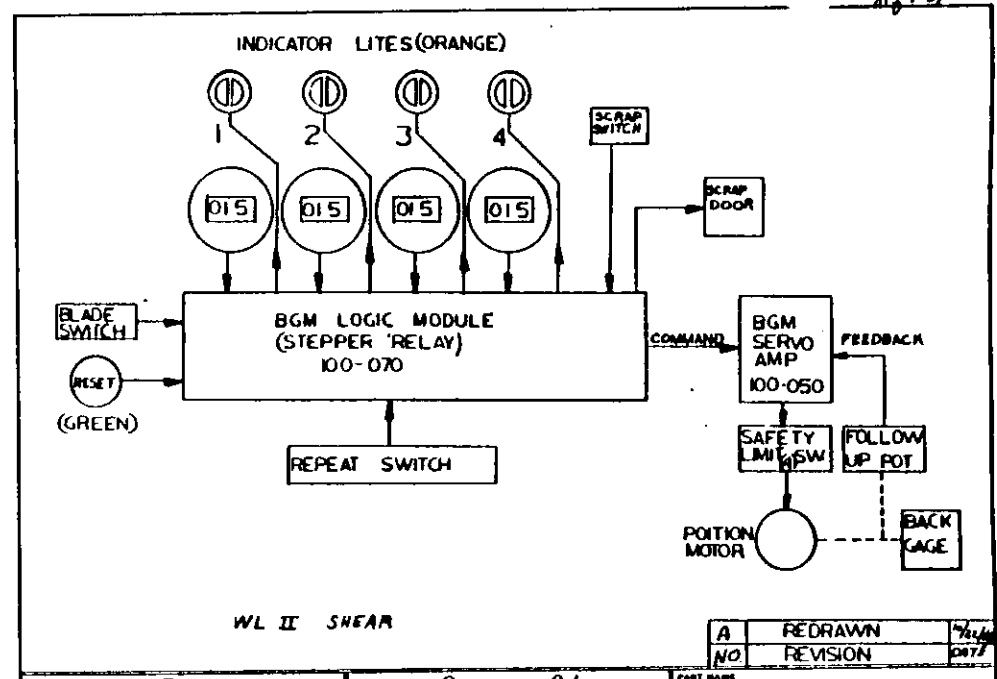


### 100-200 SENSING HEAD

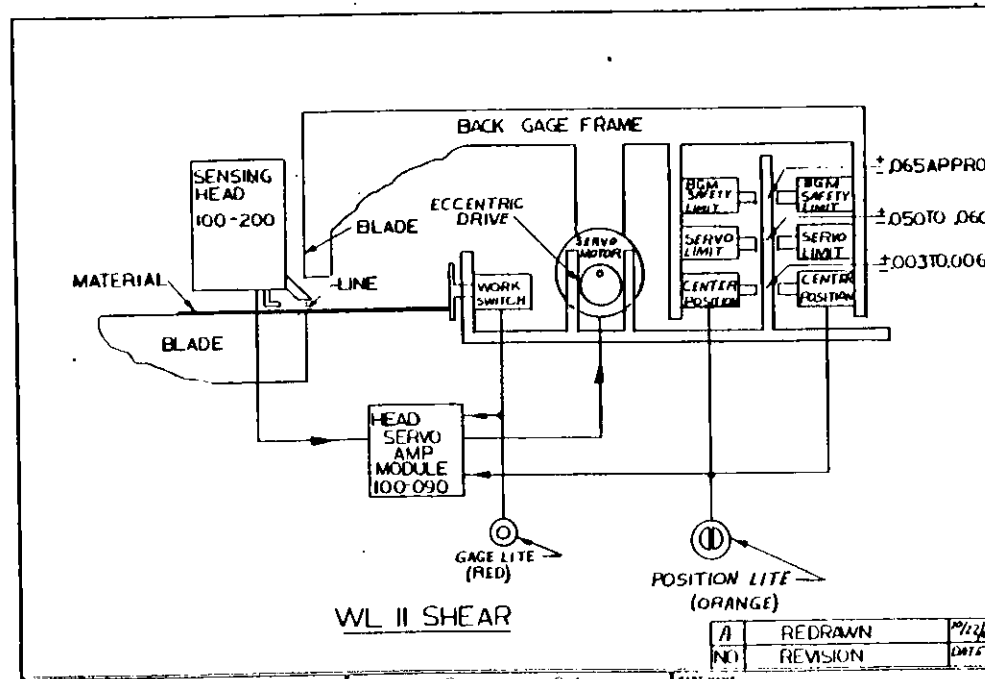




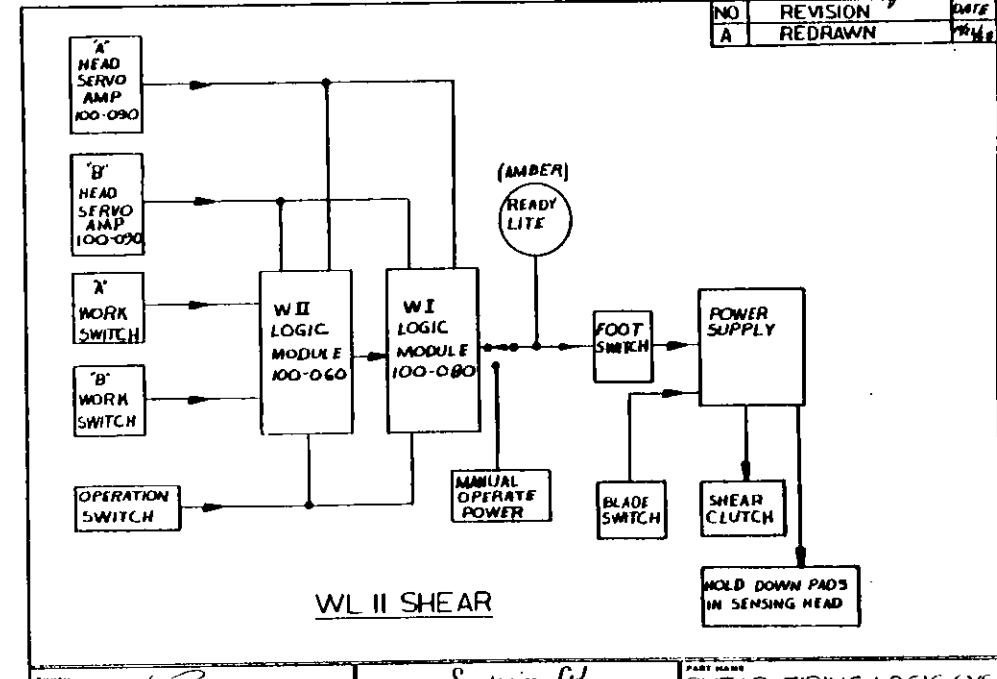
PART NAME		Spartanics Ltd		PART NAME		POWER SUPPLY SYSTEM	
317 W COLPAX		PALATINE, IL		317 W COLPAX		PALATINE, IL	
REMOVE BURRS & CHAMP EDGES		1-1		MATERIAL		PART NO	
TOLERANCES UNLESS OTHERWISE SPECIFIED		SCALE		100-103		A	
FRACTIONS 3/16		DECIMALS 2.008					
ANGULARS 1/8"		CONCENTRICITY 0.001 T.1 R					



PART NAME		Spartanics Ltd		PART NAME		BACK GAGE MEMORY/RESET SYS	
317 W COLPAX		PALATINE, IL		317 W COLPAX		PALATINE, IL	
REMOVE BURRS & CHAMP EDGES		1-1		MATERIAL		PART NO	
TOLERANCES UNLESS OTHERWISE SPECIFIED		SCALE		100-104		A	
FRACTIONS 3/16		DECIMALS 2.008					
ANGULARS 1/8"		CONCENTRICITY 0.001 T.1 R					

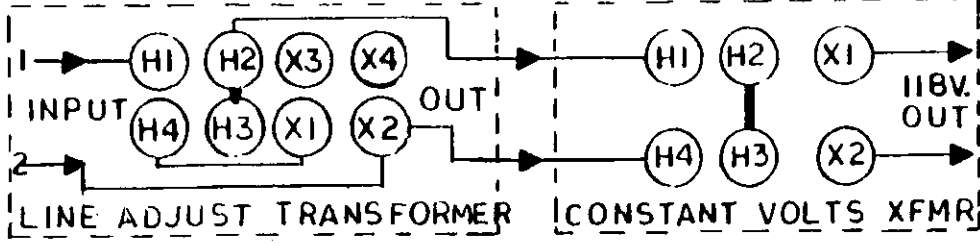


PART NAME		Spartanics Ltd		PART NAME		BACK GAGE MEMORY/RESET SYS	
317 W COLPAX		PALATINE, IL		317 W COLPAX		PALATINE, IL	
REMOVE BURRS & CHAMP EDGES		1-1		MATERIAL		PART NO	
TOLERANCES UNLESS OTHERWISE SPECIFIED		SCALE		100-104		A	
FRACTIONS 3/16		DECIMALS 2.008					
ANGULARS 1/8"		CONCENTRICITY 0.001 T.1 R					

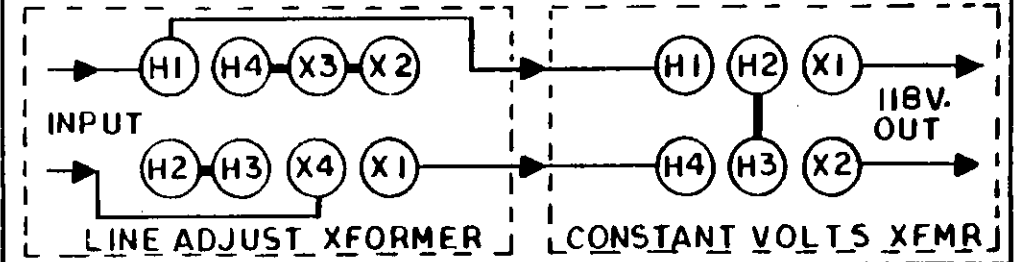


PART NAME		Spartanics Ltd		PART NAME		HEAD RIDING LOGIC SYS	
317 W COLPAX		PALATINE, IL		317 W COLPAX		PALATINE, IL	
REMOVE BURRS & CHAMP EDGES		1-1		MATERIAL		PART NO	
TOLERANCES UNLESS OTHERWISE SPECIFIED		SCALE		100-104		A	
FRACTIONS 3/16		DECIMALS 2.008					
ANGULARS 1/8"		CONCENTRICITY 0.001 T.1 R					

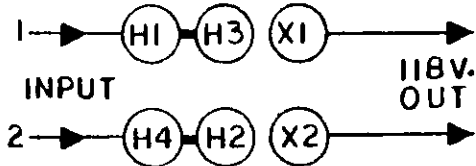
380V.-520V. 50HZ



340V.-420V. 50HZ

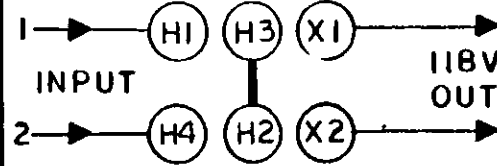


190V.-260V. 60HZ



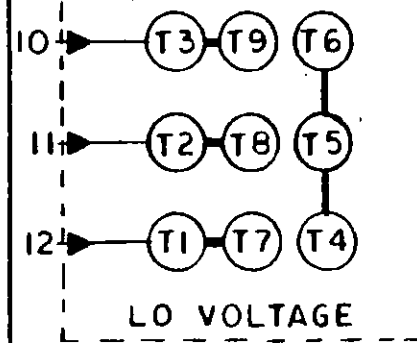
CONSTANT VOLTS XFMR

380V.-520V. 60HZ

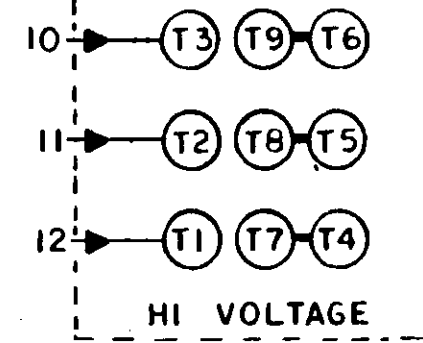


CONSTANT VOLTS XFMR

SHEAR DRIVE MOTOR



LO VOLTAGE

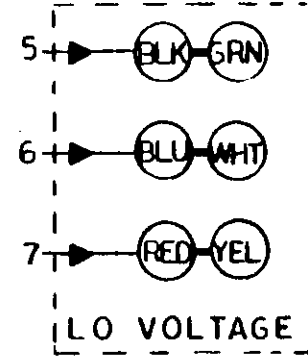


HI VOLTAGE

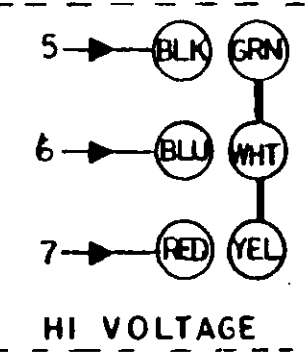
OVERLOAD HEATER SELECTION CHART

VOLTAGE LIMITS	LINE FREQUENCY	SHEAR MOTOR (H1 H2 H3)	STACKER MOTOR (H4,H5,H6)
190V.-260V.	60 HZ	W 47	W 14
380V.-520V.	60 HZ	W 37	W 10
200V.-220V.	50 HZ	W 48	W 19
340V.-420V.	50 HZ	W 44	W 14
380V.-520V.	50 HZ	W 41	W 10

STACKER BELT MOTOR



LO VOLTAGE



HI VOLTAGE

1	"W" HEATERS WERE "N" TYPE.	5-21-82
NO.	REVISION	DATE

FINISH:  
REMOVE BURRS & SHARP EDGES  
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
FRACTIONS +1/64      DECIMALS +.005

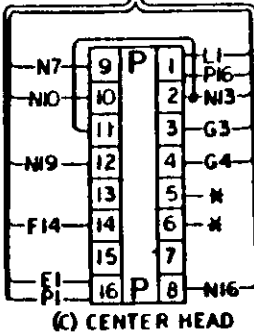
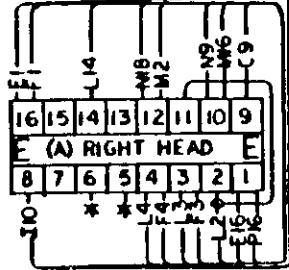
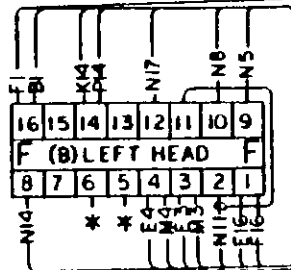
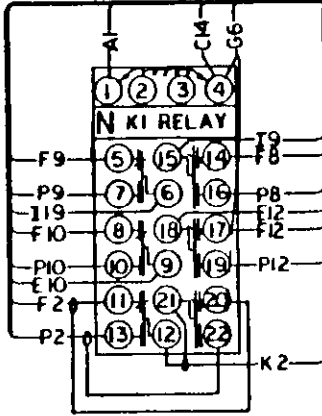
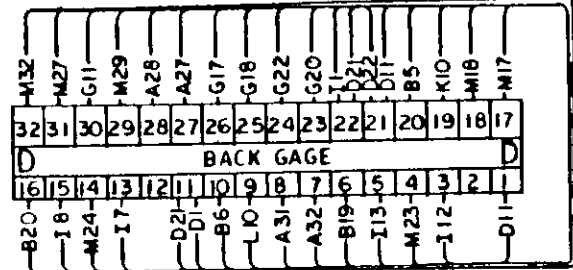
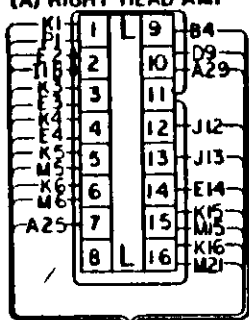
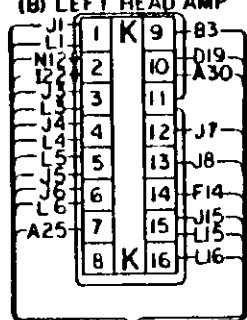
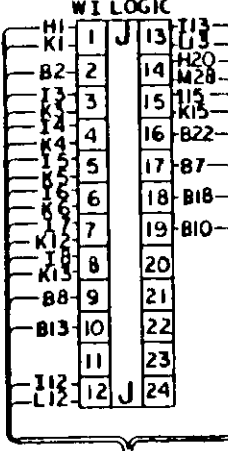
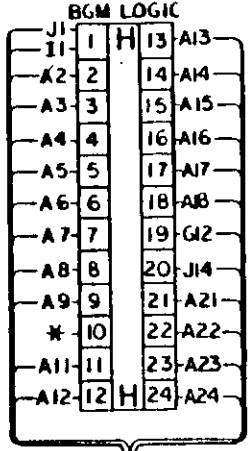
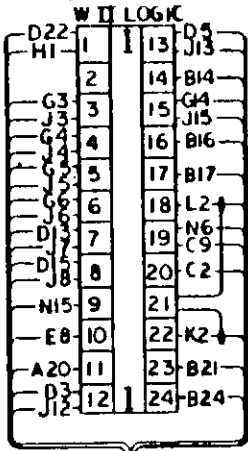
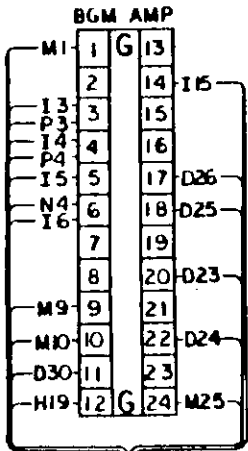
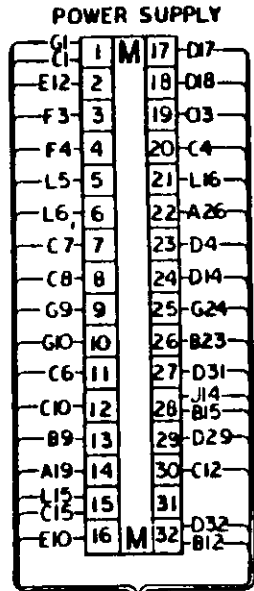
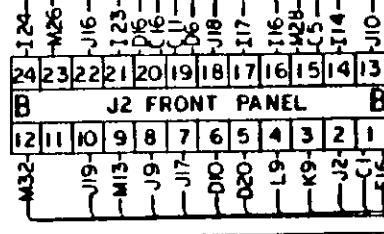
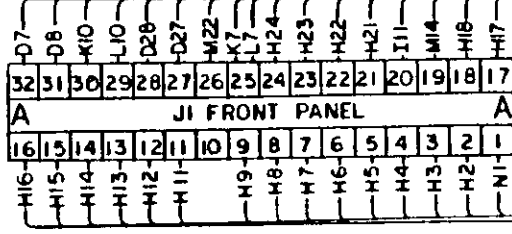
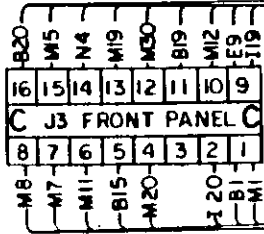
*Spartanics, Ltd.*

317 W. COLFAX      PALATINE, ILL.

DRAWN LHK      CHECKED      SHEET 1 OF 1      SCALE

PART NAME PRIMARY POWER WIRING HOOKUP CHART

MATERIAL      PART NO. 100-101-1



**SYMBOLS:**  
 COAX SHIELD  
 \* DONOT USE BECAUSE OF INTERCHANGABILITY.

3	ADD COAX 18 TO 12	7-11-80
	" " 122 TO K2	
NO	REVISION	DATE

FINISH: REMOVE BURRS & SHARP EDGES	
TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONS ± 1/64 ANGULAR ± 1/2°	

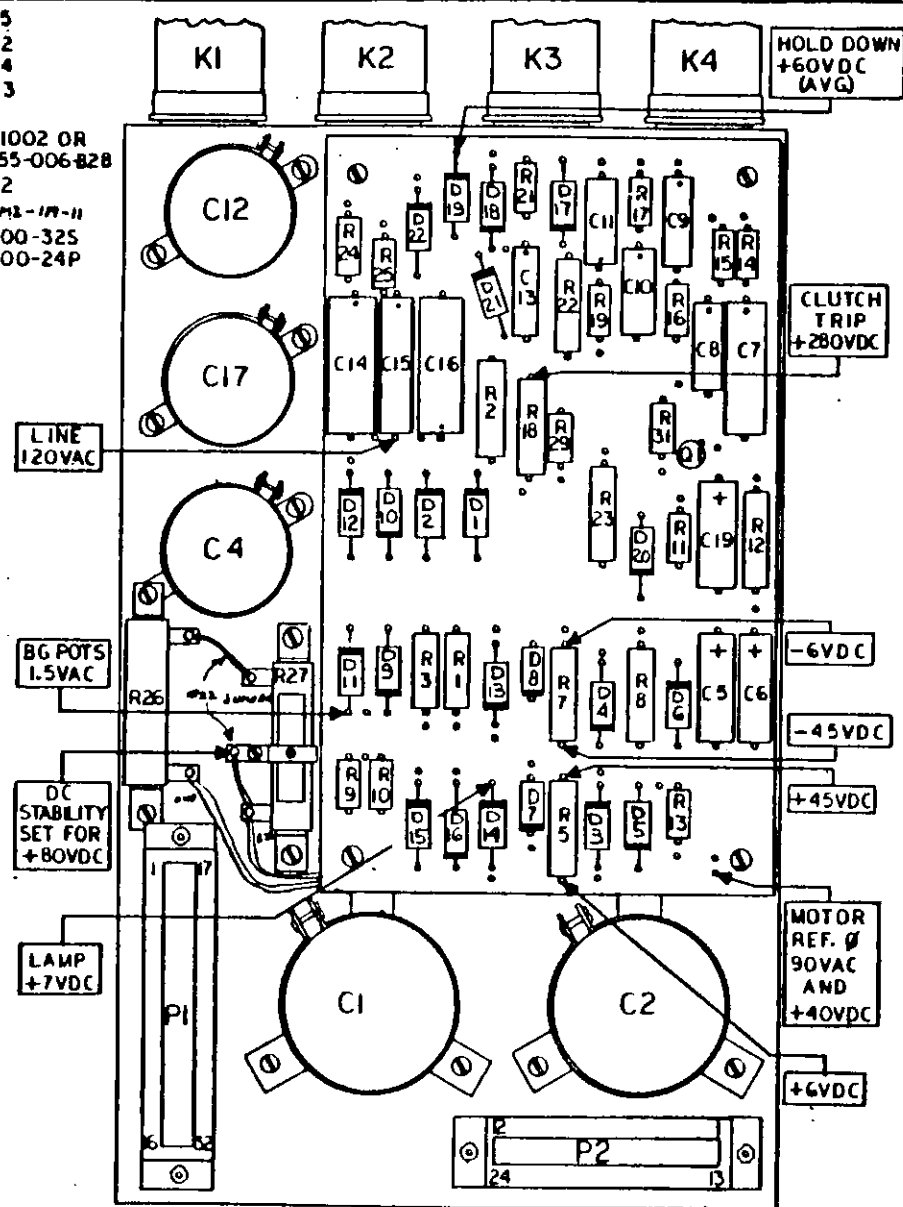
Spartanix Ltd 117 W. COLFAX PALATINE, ILL.	
DRAWN LHK 11-22-74	CHECKED 4340V
SHEET 1 of 2	SCALE

PART NAME HARNESS, WIRING ELECTRONIC CABINET WL III	
MATERIAL	PART NO. 100-011-3



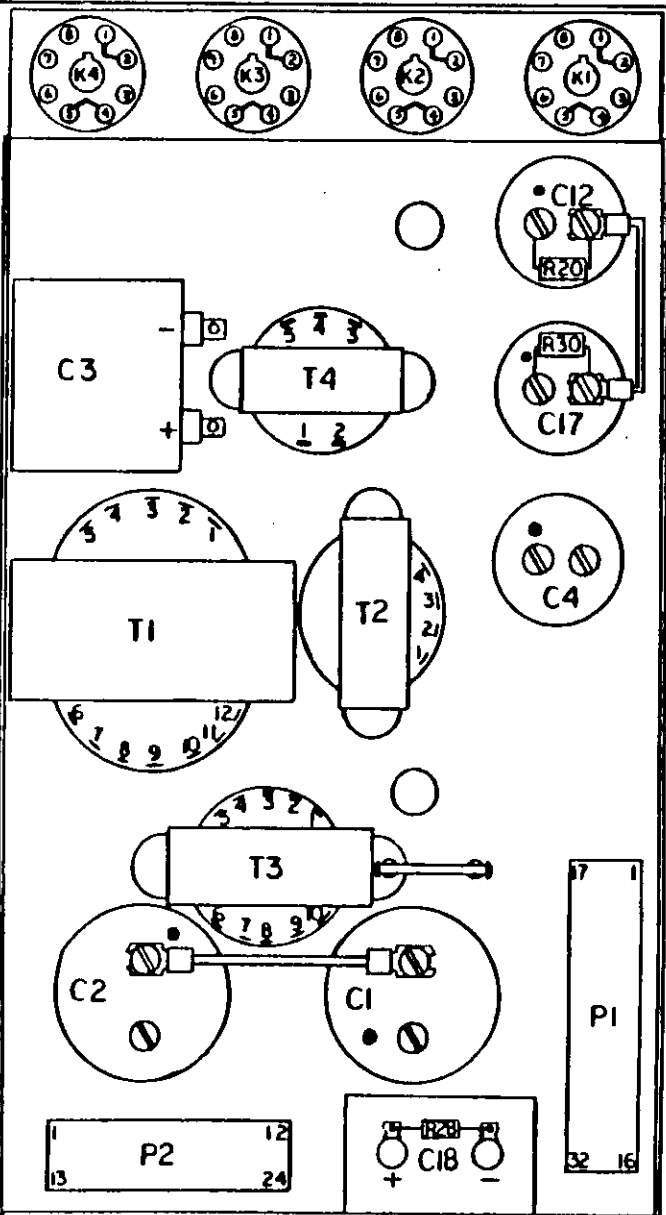
- R1 - 100 Ω 1W
- R2 - 100 Ω 5W
- R3 - 100 Ω 1W
- R4 - N.U.
- R5 - 1K 5W
- R6 - N.U.
- R7 - 1K 5W
- R8 - 2K 5W
- R9 - 68K 1/2W
- R10 - 68K "
- R11 - 22Ω "
- R12 - 2K 5W
- R13 - 2.7K 1/2W
- R14 - 15Ω "
- R15 - 220Ω "
- R16 - 220Ω "
- R17 - 220Ω "
- R18 - 1K 5W
- R19 - 220Ω 1/2W
- R20 - 220K 1W
- R21 - 220Ω 1/2W
- R22 - 50Ω 5W
- R23 - 22Ω "
- R24 - 15Ω 1/2W
- R25 - 15Ω "
- R26 - 100Ω 10W
- R27 - 250Ω 10W ADJ.
- R28 - 1M 1/2W
- R29 - 22K "
- R30 - 100K 1W
- R31 - 10K 1/2W SEL.

- T1-100-115
  - T2-100-112
  - T3-100-114
  - T4-100-113
- K1, K4-HG1002 OR  
 GTE PD-55-006-B28  
 Q1-2N2102  
 → OR P-8 JMS-1A-11  
 P1-26-4100-325  
 P2-26-4100-24P

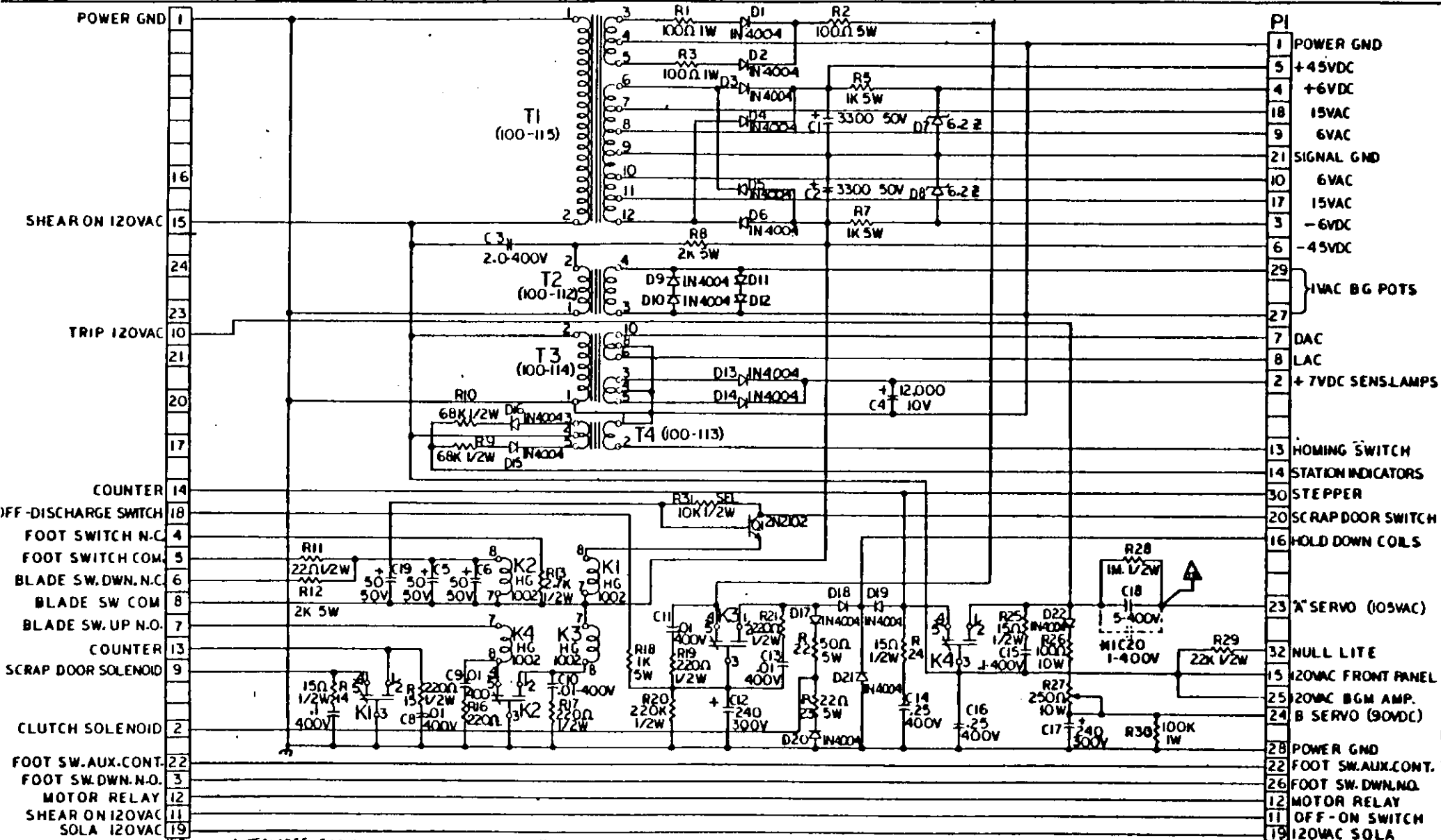


- C1 - 3300 MFD 50V
- C2 - 3300 " "
- C3 - 2 " 400V
- C4 - 12,000 " 10V
- C5 - 50 " 50V
- C6 - 50 " 50V
- C7 - .1 " 400V
- C8 - .01 " "
- C9 - .01 " "
- C10 - .01 " "
- C11 - .01 " "
- C12 - 240 " 300V
- C13 - .01 " 400V
- C14 - .25 " "
- C15 - .1 " "
- C16 - .25 " "
- C17 - 240 " 300V
- C18 - 5 " 400V
- C19 - 50 " 50V

D1, D6 - IN540  
 D7, D8 - 5Z 6-2 SCHAUER  
 D9, D22 - IN540



FINISH: REMOVE BURRS & SHARP EDGES		Spartanics Ltd 317 W. COLFAX PALATINE, ILL.		PART NAME VOLTAGE & PARTS LOCATION, POWER SUPPLY	
TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONS ±1/64 ANGULAR ±1/8°		DRAWN LHK 4-18-73	CHECKED 3330V	SHEET 1-2	SCALE
NO.	REVISION	DATE	MATERIAL		PART NO. 100-120-N



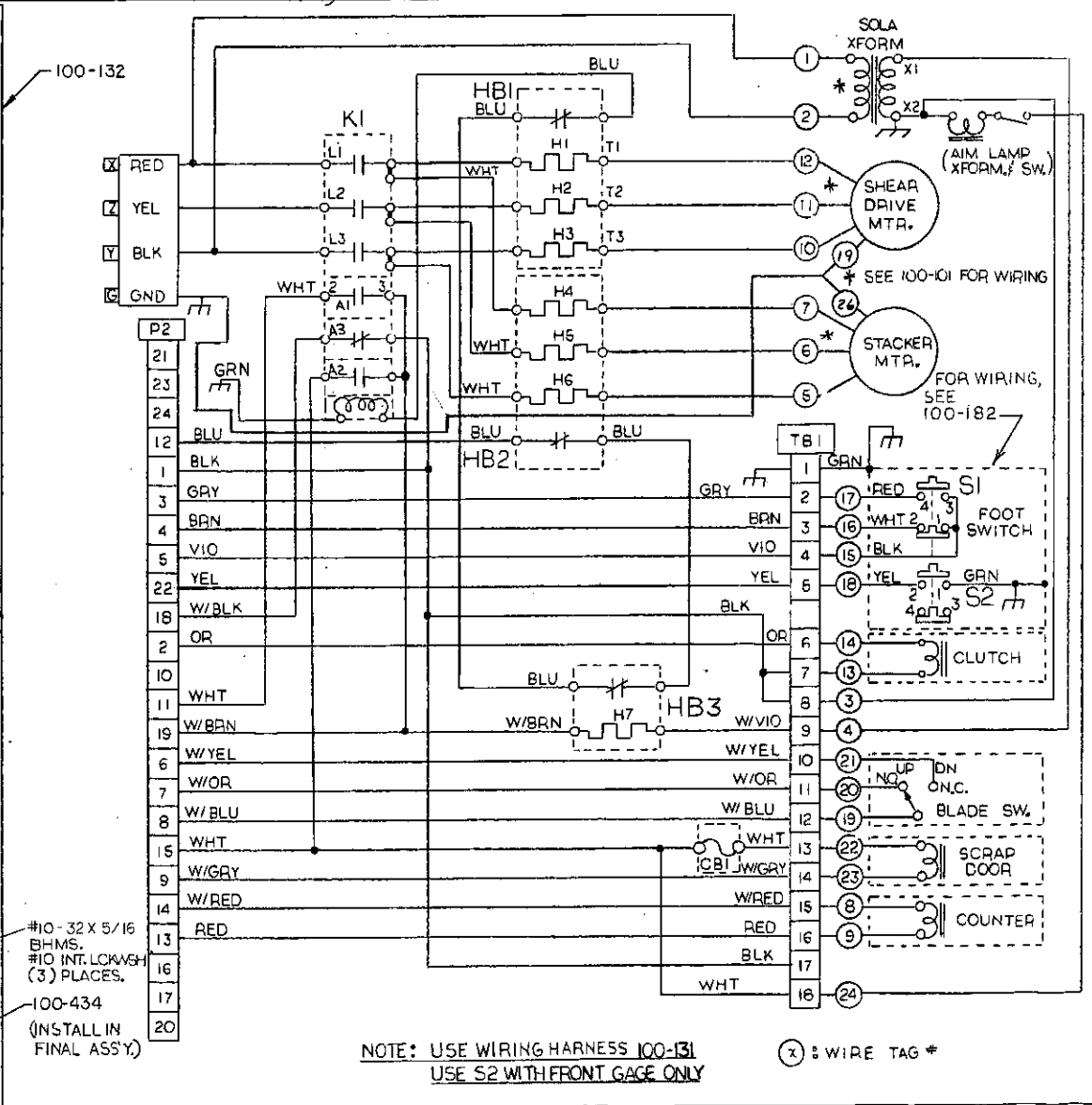
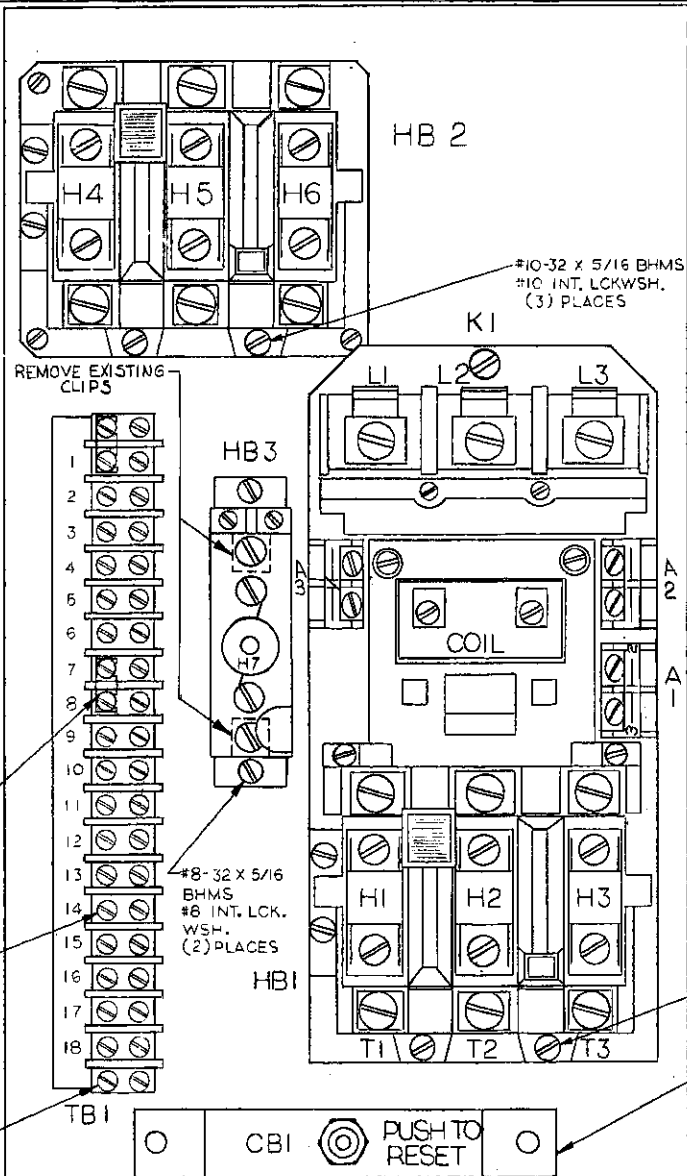
NOTES:  
 #1-FOR 50HZ ADD C20

ALTERNATES FOR #1002  
 1) CTB PO-35-006-818  
 2) MS JMS-119-11

FINISH: REMOVE BURRS & SHARP EDGES			<i>Spartanics Ltd</i> 317 W. COLFAX PALATINE, ILL.		PART NAME SCHEMATIC POWER SUPPLY	
TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONS ±1/64      DECIMALS ±.005 ANGULAR ±1/8°      CONCENTRICITY .005 T.I.R.			DRAWN LHK	CHECKED SD SV	SHEET 1	SCALE
NO	REVISION	DATE	2-26-75		MATERIAL PART NO. 100-121-2	

**PARTS AND MATERIALS REQ'D.**

- K1-A.B.#509AOD(B) STARTER
- HB1-SUPPLY W/ K1
- HB2-A.B.#592BOVI6 RELAY
- HB3-A.B.#815BOV4 RELAY
- A1-SUPPLY WITH K1 (N.O.)
- A2-A.B.#595A
- A3-A.B.#595B HEATERS
- H1-H6 (SEE 100-10)
- H7-N12
- TBI-CJ#18-140 W/MS18-140 P2-26 4100-245
- CBI (SEE 100-434)
- (INSTALL IN FINAL ASSEMBLY)
- MOTOR STARTER PANEL (SEE 100-132)



NOTE: USE WIRING HARNESS 100-131  
 USE S2 WITH FRONT GAGE ONLY

	5	REROUTE H1 → K1 COIL	12-20-82	FINISH:	<i>Spartanics, Ltd.</i>	PART NAME SCHEMATIC/ ASS'Y MOTOR STARTER PANEL	
8	2476	H7 WAS N11	11-11-94	4	REMOVE BURRS & SHARP EDGES	3605 EDISON PL., ROLLING MEADOWS, IL.	
7	2424	ADD. GND WIRES	7-25-84	3	TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONS ± 1/64      DECIMALS ± .005 ANGULAR ± 1/2°      CONCENTRICITY .005 T.I.R.	DRAWN BGG	CHECKED
6		ADDED A3, A2 WAS AB#595-AB	12-17-84			SHEET 1 of 1	SCALE 2
				NO.	REVISION	DATE	MATERIAL
							PART NO. 100-130-8



RI-50Ω 5 W  
R2-2.9Ω POT

C1-5 MFD 400V

DI,D2-IN4004

S1,S3-CHERRY E22 (OBS.LICON10-100041)

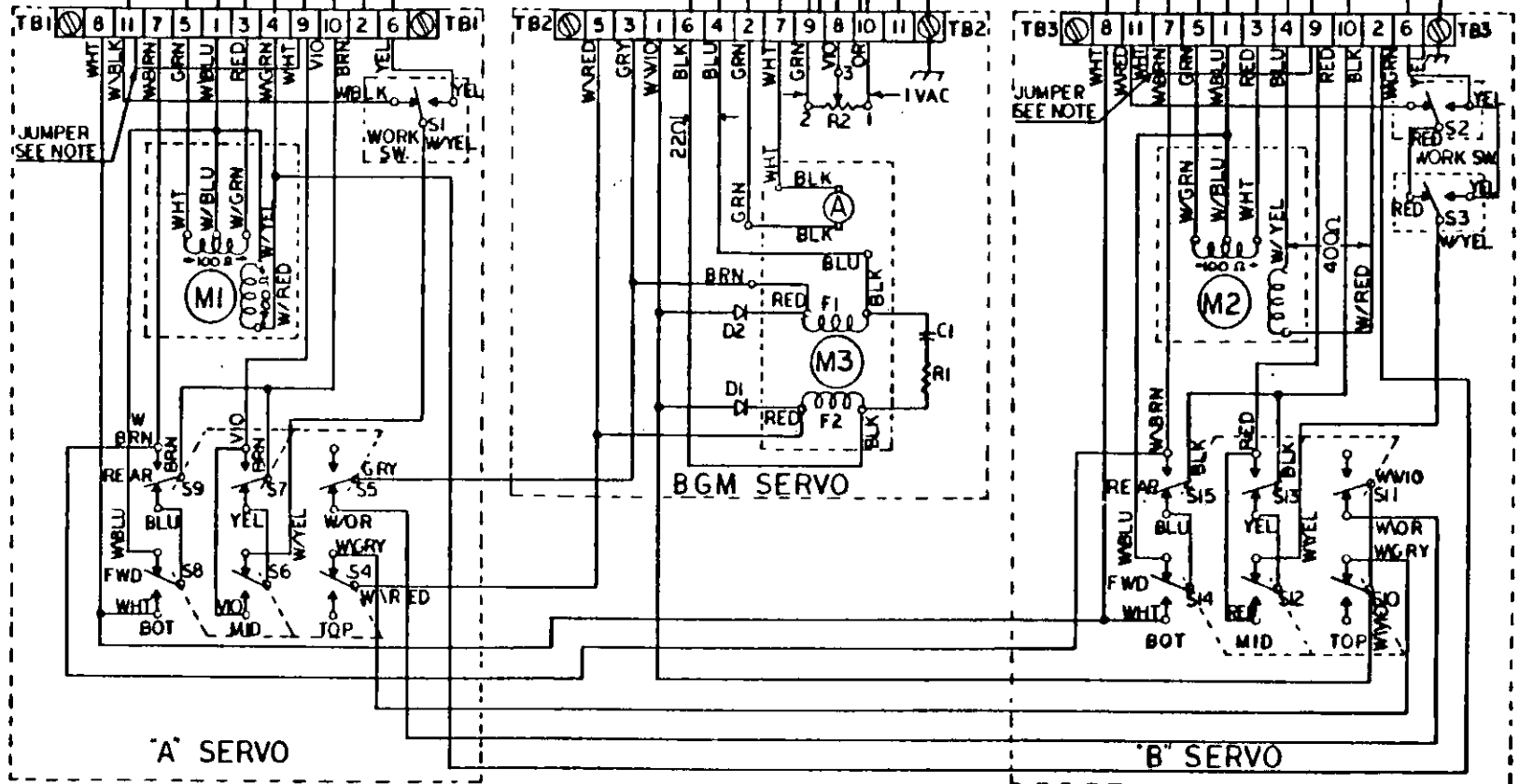
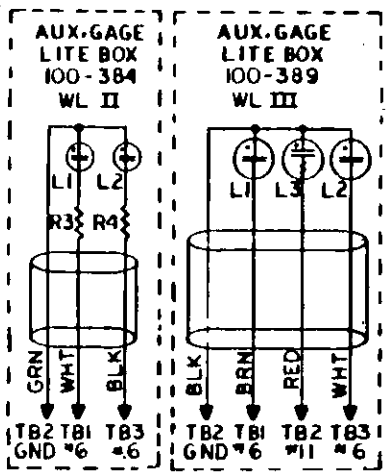
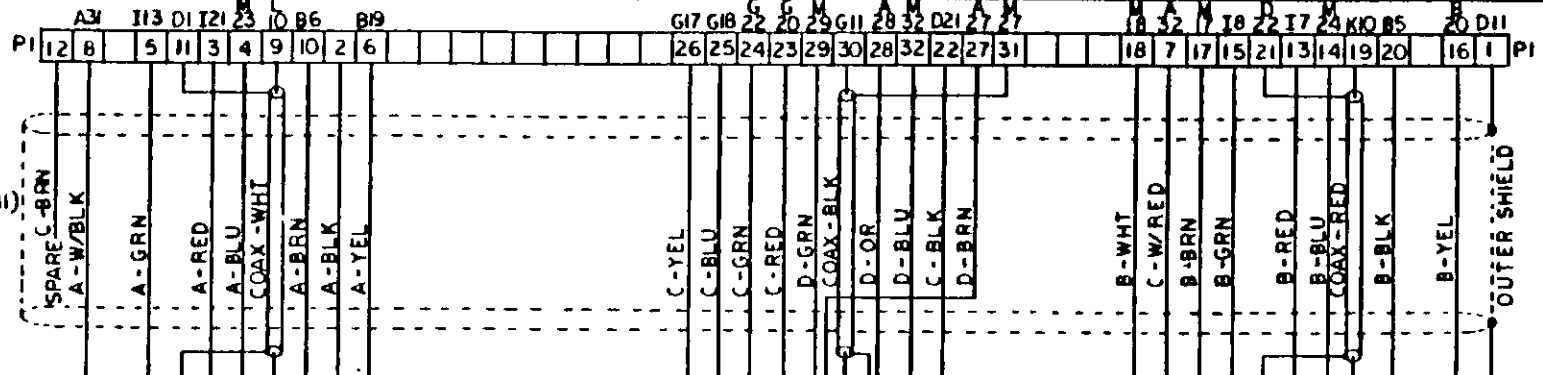
S4,S15-LICON 10-300020

M1,M2-DIEHL FPE 21L-33-4

M3-B&D BPA-381-220V.

PI-AMPHENOL \*26-4501-32P

TB1,TB3-CJ 71-140



NOTES:  
 1) REMOVE JUMPERS FROM TB1 & TB3 TERMINALS \*9 & \*11 FOR WL III FRONT GAGE SHEAR.

FINISH:		Spartanics Ltd				PART NAME SCHEMATIC,	
REMOVE BURRS & SHARP EDGES		SIT W. COLFAX PALATINE, RL				BACK GAGE WL II & WL III	
4	S1,S3 10-100041 CHANGE 7-9-79	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN LHK	CHECKED	SHEET 1 of 1	MATERIAL
NO	REVISION	DATE	FRACTIONS ± 1/64	7-9-79		SCALE	PART NO.
			ANGULAR ± 1/8°				100-300-4

R1-220Ω 10W  
 R2-2.9Ω POT  
 R3-5Ω 25W

C1-1MFD 600V

DI,D2-1N4004

S1,S3-CHERRY E22 (OBS LICON10-10041)

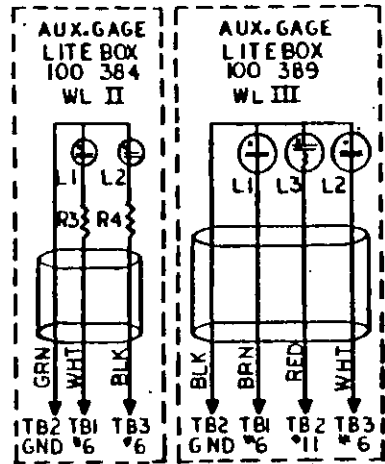
S4,S5-LICON 10-300020

MIM2 DIEHL FPE21L 33 4

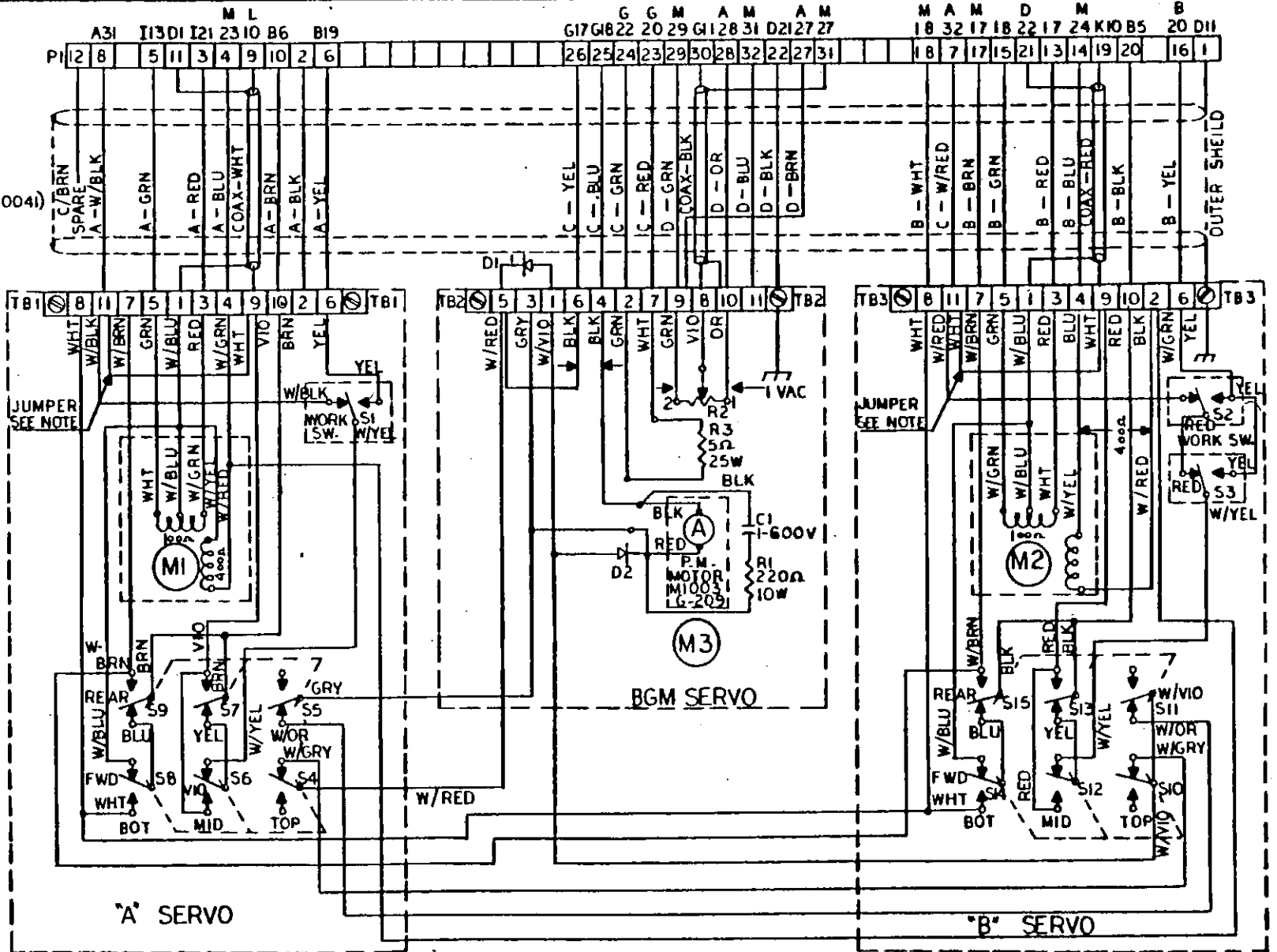
M3-RM. M1003 G-209

PI-AMPHENOL 26-4501-32P

TB1,TB3 CJ #11-140



NOTES:  
 1) REMOVE JUMPERS FROM TB1 & TB3 TERMINALS \*9 & \*11 FOR WL III FRONT GAGE SHEAR.



5		M3 CHANGED TO M1003, R3 ADDED	1-16-80	FINISH:		Spartanics Ltd			PART NAME: SCHEMATIC BACK		
4		S1, S3 10-00041 CHANGE TO E22	7-9-79	REMOVE BURRS & SHARP EDGES		3805 EDISON PL., ROLLING MEADOWS, IL.			GAGE WL II & WL III		
NO.		REVISION	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN	CHECKED	SHEET	SCALE	MATERIAL	PART NO.
				FRACTIONS ± 1/64		R.W.I.		1 of 1			100-300-5
				DECIMALS ± .008		1-16-80					
				ANGULAR ± 1/8°							

