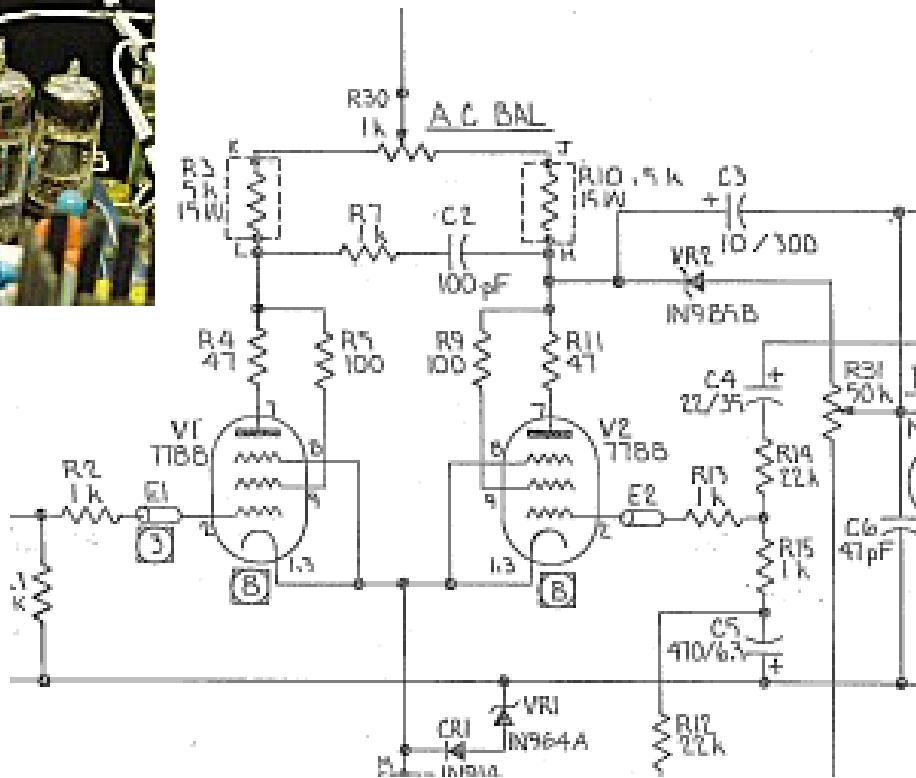


# INFINITY HCA

**Introduced:** 1978  
**Dimensions:** 483 X 508 X 228 mm  
**Weight:** ~43kg  
**Power consumption:** 1500W  
**Max power:** 2X700W

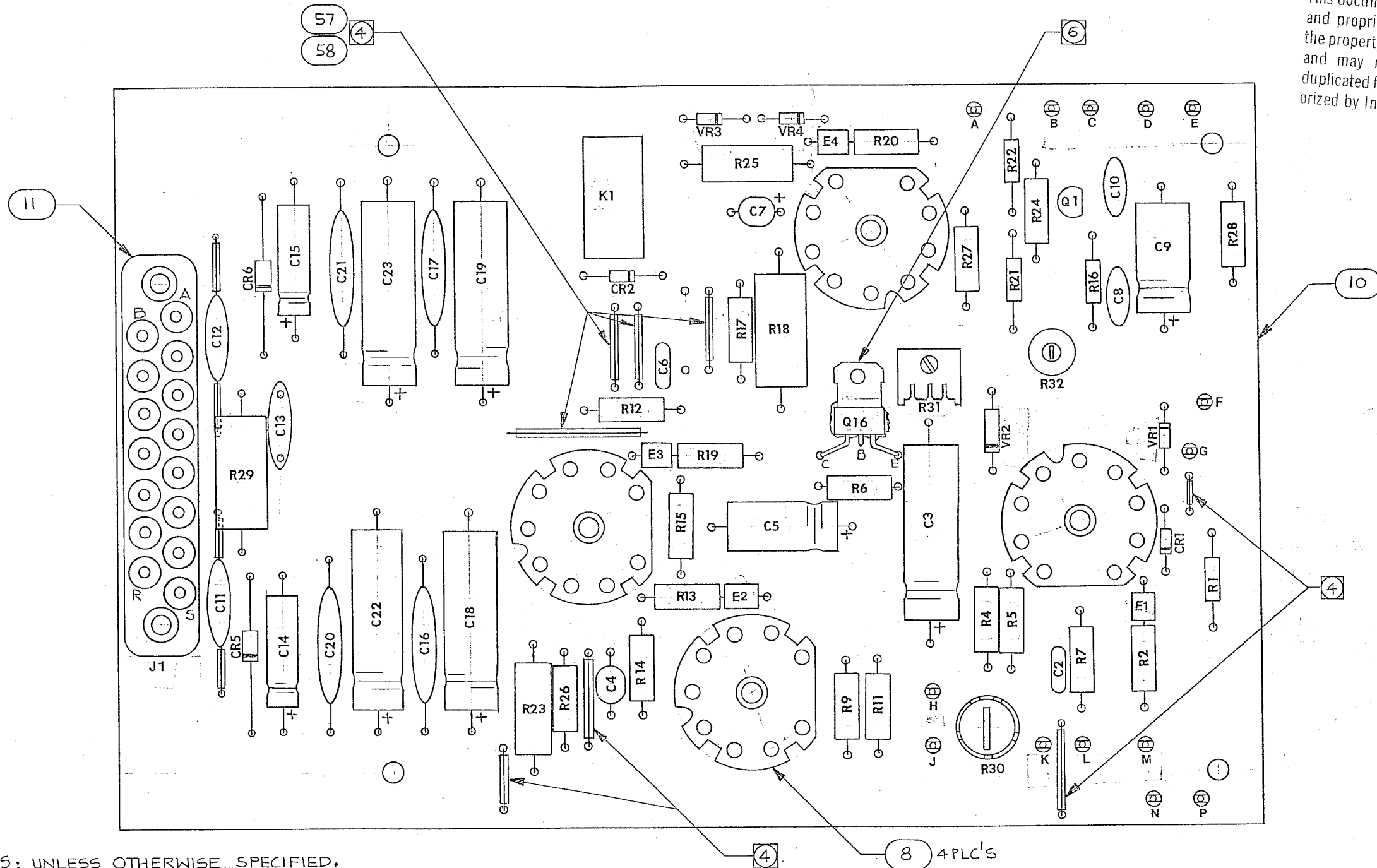
Note: No parts available



REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	FIRST ARTICLE	9-28-78	
	B	ADD Q16 - ADDITIONAL UPDATE	4-23-79	VUL

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**NOTES: UNLESS OTHERWISE SPECIFIED.**

- USE CO NON-INSULATED TERMINALS INSTALLED PRIOR TO THIS ASSY PER FAB. DWG # 0052-0051-2.
- INSTALL R18, R23, R29 (ITEM: 52, 53, 54) .06 - .09 OFF BOARD.
- INSTALL SLEEVING ON BOTH LEGS OF C11 & C12.
- USE # 22 AWG SOLID WIRE W/SLEEVING FOR JUMPER (8PLC'S).
- V1-V4 INSTALLED AT NEXT ASSY LEVEL (717007)
- CUT BACK BASE OF Q16 TO APPRO. .05 FROM CASE. APPLY COMPOUND TO BACKSIDE OF Q16 UPON INSTALLATION AND FOLD DOWN TOWARD P.C.B AS SHOWN.

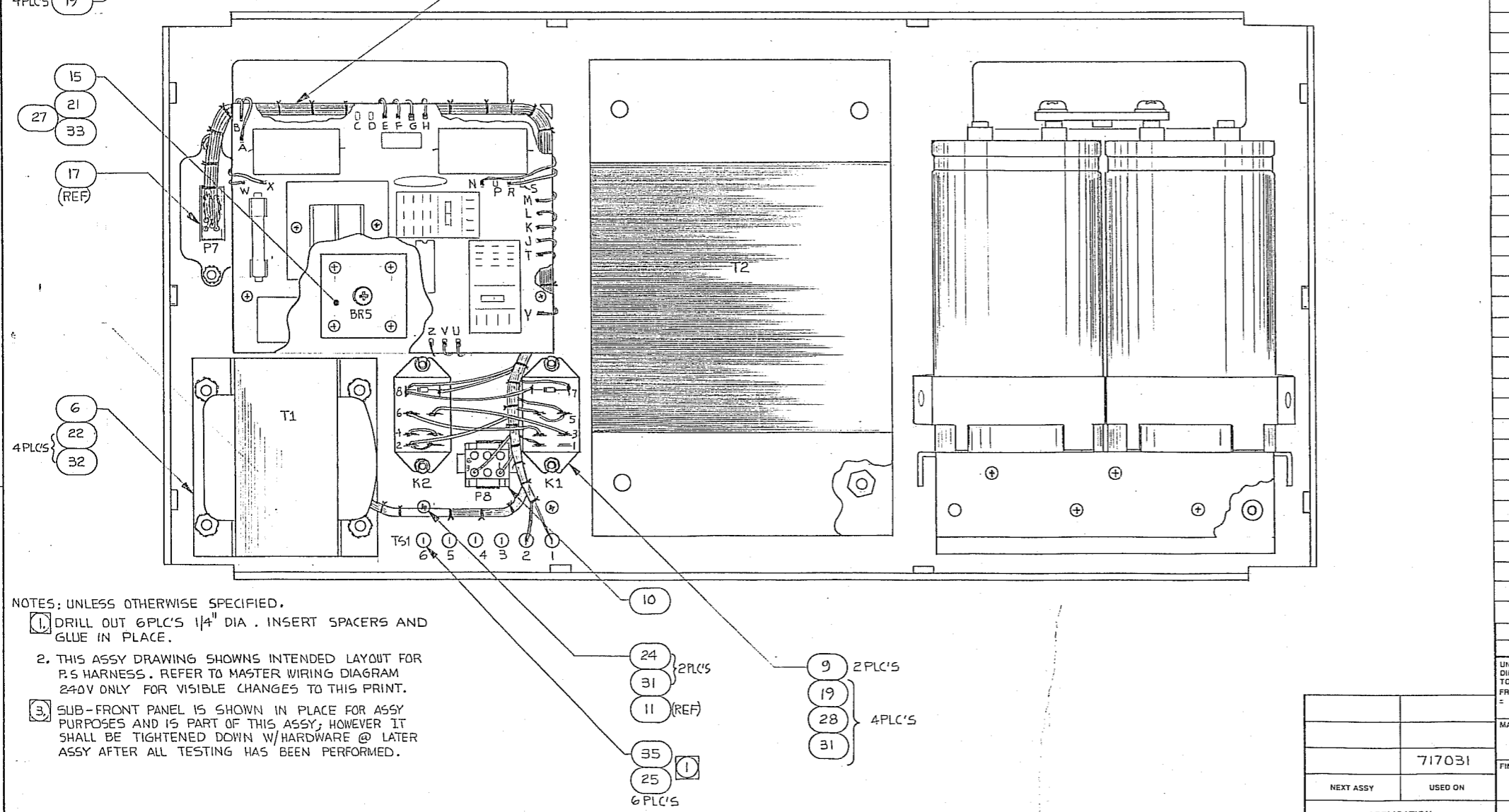
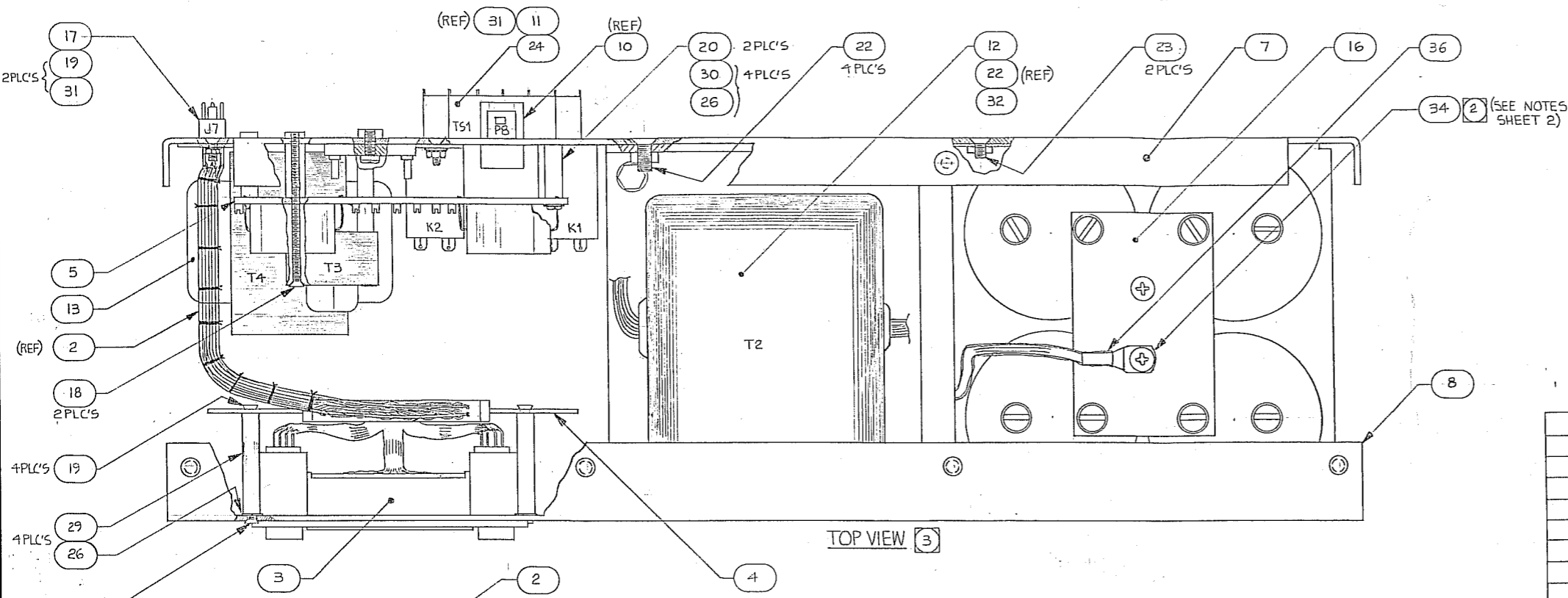
SEE SEPARATE PARTS LIST PN # 717012

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		
FRACTIONS	DECIMALS	ANGLES		
=	XX	=		
	XXX			
MATERIAL		APPROVALS		
FINISH		DATE		
717007 717006		VUL 5-10-79		
NEXT ASSY USED ON		CHECKED		
		10-30-79		
APPLICATION		ISSUED		
DO NOT SCALE DRAWING		SIZE FSCM NO. DWG. NO. REV.		
		C 917010 DD70-0045-2 B		
		SCALE 2/1 SHEET 1 OF 5		

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	FIRST ARTICLE	8-22-79	

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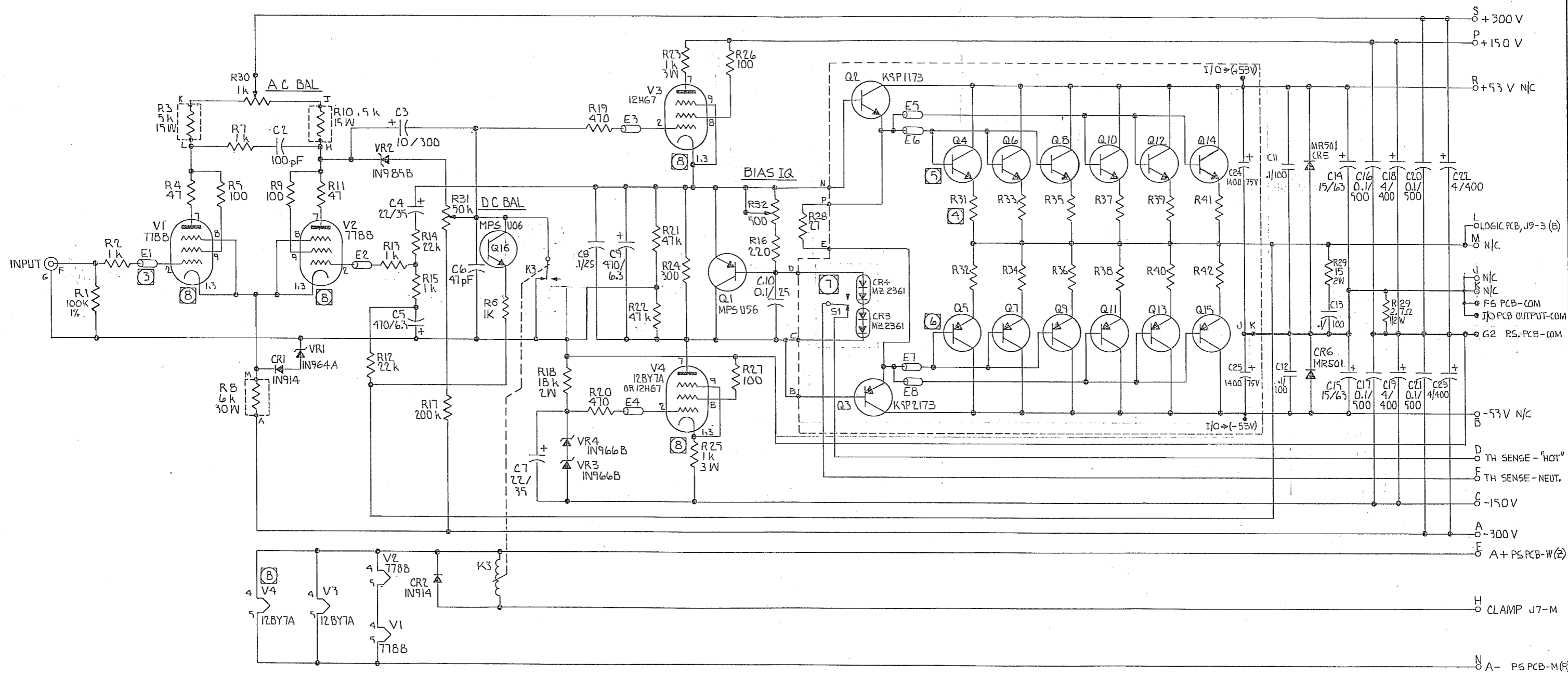
- NOTES: UNLESS OTHERWISE SPECIFIED.
1. DRILL OUT 6 PLC'S 1/4" DIA. INSERT SPACERS AND GLUE IN PLACE.
  2. THIS ASSY DRAWING SHOWS INTENDED LAYOUT FOR P.S. HARNESS. REFER TO MASTER WIRING DIAGRAM 240V ONLY FOR VISIBLE CHANGES TO THIS PRINT.
  3. SUB-FRONT PANEL IS SHOWN IN PLACE FOR ASSY PURPOSES AND IS PART OF THIS ASSY; HOWEVER IT SHALL BE TIGHTENED DOWN W/HARDWARE @ LATER ASSY AFTER ALL TESTING HAS BEEN PERFORMED.

A/R	QTY	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ITEM
				PARTS LIST		
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .XX ± .XXX ± =		
				CONTRACT NO.		
				APPROVALS DATE		
				DRAWN <i>Vicki Haring</i> 8-20-79		
				CHECKED <i>R. Burn</i> 10-27-79		
				ISSUED		
				NEXT ASSY USED ON		
				APPLICATION DO NOT SCALE DRAWING		
				SCALE 1/1		
				SHEET 1 OF 3		
				SIZE FSCM NO. DWG. NO. REV. D 917010 DD70-0059-2 A		

PARTS LIST		CONTRACT NO.		APPROVALS DATE		NOMENCLATURE OR DESCRIPTION		MATERIAL SPECIFICATION		ITEM	
A/R	QTY	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		MATERIAL SPECIFICATION		ITEM			
2	507208			TUBING, SHRINK, CLEAR, 1/4 DIA.							40
2	522085			LOCKWASHER #8							39
2	503195			SCREW #8-32 x 3 B.LG., PAN HD., PHIL.							38
2	504737			LUG #10, YAVIB (8-10)							37
A/R	507202			TUBING, HEATSHRINK, CLEAR, 1/8 DIA.							36
A/R	601071			EPOXY LEMENT OR EQUIV							35
1	504736			LUG #10, YAVBC-L							34
A/R	601102			COMPOUND, THERMAL							33
8	520247			KEPNUT #10							32
8	520241			KEPNUT #4							31
4	534047			SPACER #4, 3/4" LG., NYLON							30
4	531043			STAND OFF #4, 1 1/2" LG., STEEL, ROUND							29
4	521045			WASHER #4, LARGE PATTERN, FLAT							28
1	503512			WASHER #8, INTERNAL TOOTH							27
4	503505			WASHER #4, INTERNAL TOOTH							26
6	531042			SPACER #4, NYLON, 1/4" LG.							25
2	512106			SCREW #4-40 x 5/8" LG., PAN HD., PHIL., BLK							24
14	514061			SCREW #8-32 x 3/8" LG., FLAT HD., PHIL., 100°							23
12	516085			SCREW #10-32 x 1/2" LG., FLAT HD., PHIL., 100°							22
1	503196			SCREW #8-32 x 1 1/2" LG., PAN HD., PHIL., BLK							21
2	512181			SCREW #4-40 x 1 1/8" LG., PAN HD., PHIL.							20
14	503146			SCREW #4-40 x 3/8" LG., 100° FLAT HD., PHIL.							19
2	512341			SCREW #4-40 x 2 3/16", 100° FLAT HD., PHIL.							18
1	502705			CHASSIS, AMPLIFIER							17
1	717018			MAIN FILTER ASSY							16
1	302000			DIODE, BRIDGE BR92A (BR5)							15
1	717007			PCB ASSY, POWER SUPPLY							14
1	401401			TRANSFORMER, POWER, (HCA-T1)							13
1	401403			TRANSFORMER, T2 (HCA-B)							12
1	439209			CONNECTOR, R5B65P061401 (TS1)						BUCHANNON	11
1	439216			CONNECTOR, 5M36R-1 RECP (PB)						BURNDY	10
2	470018			RELAY, HL2TM-12VDC (K1, K2)						AROMAT	9
1	502703			PANEL, SUB-FRONT (HCA)							8
1	502704			PANEL, INTERIOR (HCA)							7
2	502710			BRACKET, MOUNTING, T1 (HCA)							6
1	717011			PCB ASSY, RELAY							5
1	717013			PCB ASSY, LOGIC							4
1	717017			ANNUNCIATOR ASSY							3
1	717023			HARNESS ASSY, POWER SUPPLY							2
REF	DD60-0064-2			WIRING DIAGRAM							1

ECC of NTE  
 Q4, 6, 8, 10, 12, 14 / 2SC1586 (388) NPN  
 Q5, 7, 9, 11, 13, 15 / 2SA909 (285) PNP

REV.		DESCRIPTION	DATE	APPROVED
A	ORIGINAL			
B	ADD Q16 + ADDITIONAL UPDATE		4-23-79	VCL



9. ALL COMPONENTS SHOWN INSIDE DOTTED LINES MEAN THEIR LOCATIONS ARE OFF THE P.C. BOARD.
8. HEATER ELEMENTS SHOWN REMOVED AND ISOLATED FOR CLARITY.
7. S1, CR2 & CR3 ARE ALL MOUNTED ON HEATSINK; ASSY # 717016
6. Q4, 6, 8, 10, 12, 14 ARE ISI P/N# 321586
5. Q5, 7, 9, 11, 13, 15 ARE ISI P/N# 320909
4. R31-R42 ARE 0.5  $\Omega$ , 3W.
3. E1-E8 ARE FERRITE BEADS ISI P/N
2. CAPACITOR VALUES IN MICROFARADS / VOLTAGES.
1. RESISTOR VALUES IN OHMS, 1/2 W, 5%.
- NOTES: UNLESS OTHERWISE SPECIFIED

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**LEGEND**

OCT 08 1993

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
-PARTS LIST-				
UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES - SQUARES ARE - FRACTIONS - DECIMALS - ANGLES - ° - .XXX = °		CONTRACT NO.		
MATERIAL		APPROVALS	DATE	SCHEMATIC AMPLIFIER BD. & HEATSINK ASSY - HCA PN # 717012 & 717016
FINISH		DRAWN	9/28/79	
NEXT ASSY		CHECKED	5-18-79	
USED ON		ISSUED	BHK 11/1/79	SIZE FSCM NO. DWG. NO. REV. D 917010 DD60-0005-2 B
APPLICATION		DO NOT SCALE DRAWING		SCALE

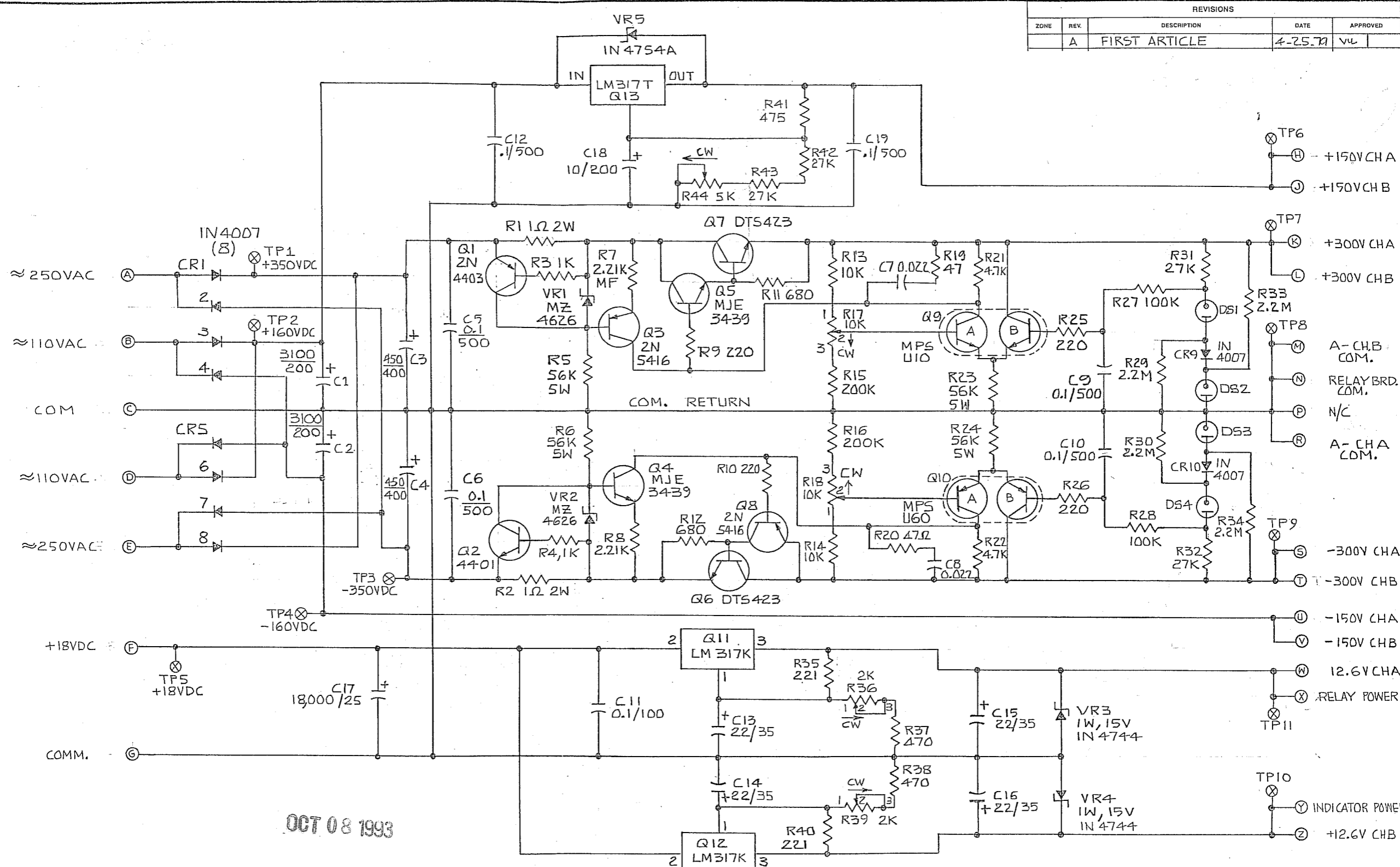
D

C

B

A

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A		FIRST ARTICLE	4-25-79	VUL



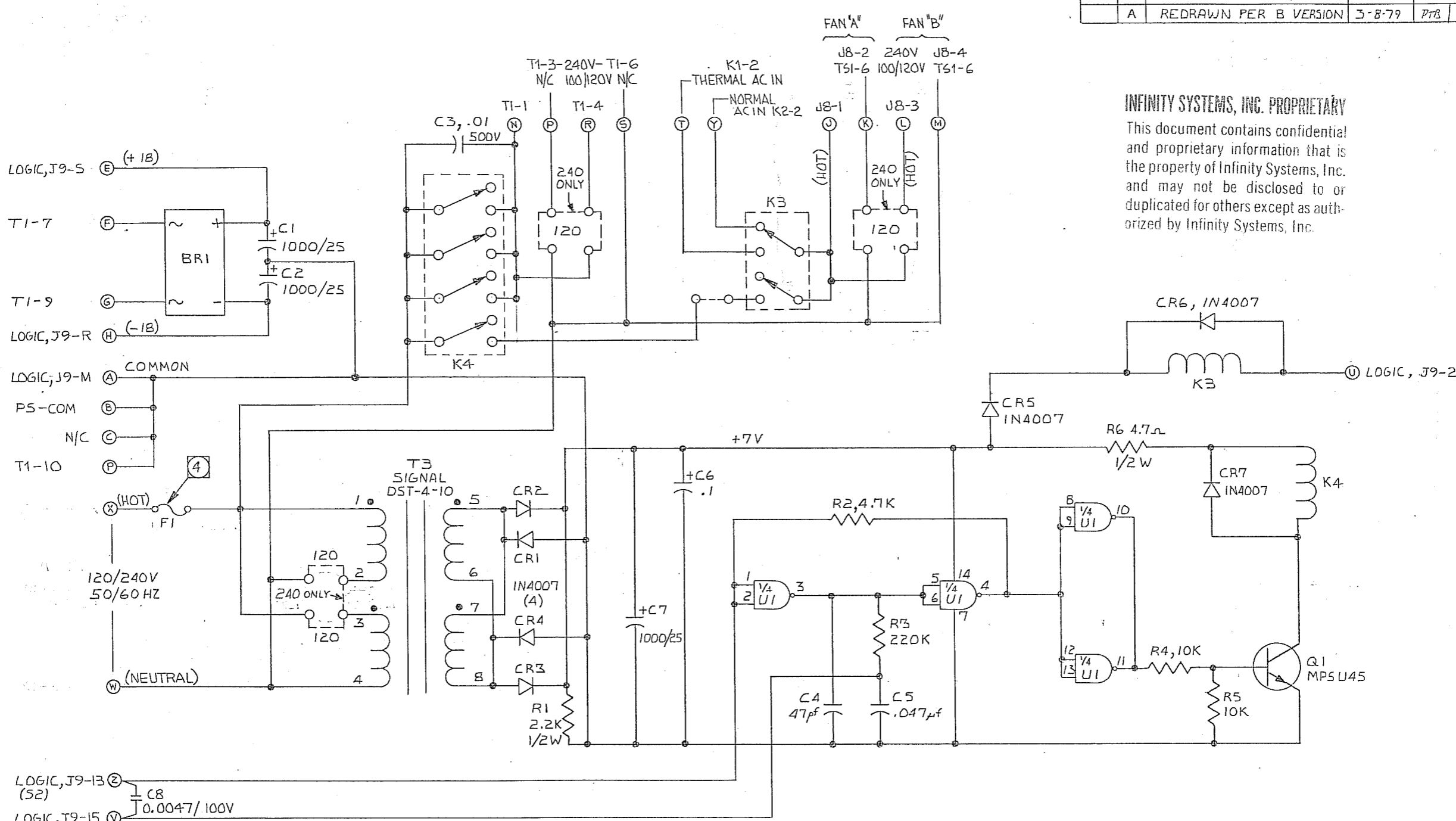
OCT 08 1993

NOTES: UNLESS OTHERWISE SPECIFIED,  
 1. RESISTORS ARE IN OHMS, 1/2W, 5%.  
 2. CAPACITORS ARE IN MICROFARADS.

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QTY	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .XX = .XXX = °			CONTRACT NO.	
MATERIAL		APPROVALS	DATE	SCHEMATIC DIAGRAM POWER SUPPLY P.C.B ASS'Y P/N 717009
FINISH		DRAWN	5-3-79	
NEXT ASSY		CHECKED	11/1/79	
USED ON		ISSUED		SIZE FSCM NO. DWG. NO. REV. C 917011 DD60-0001-2 A
APPLICATION		DO NOT SCALE DRAWING		SCALE SHEET 1 OF 1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A		REDRAWN PER B VERSION	3-8-79	PTB



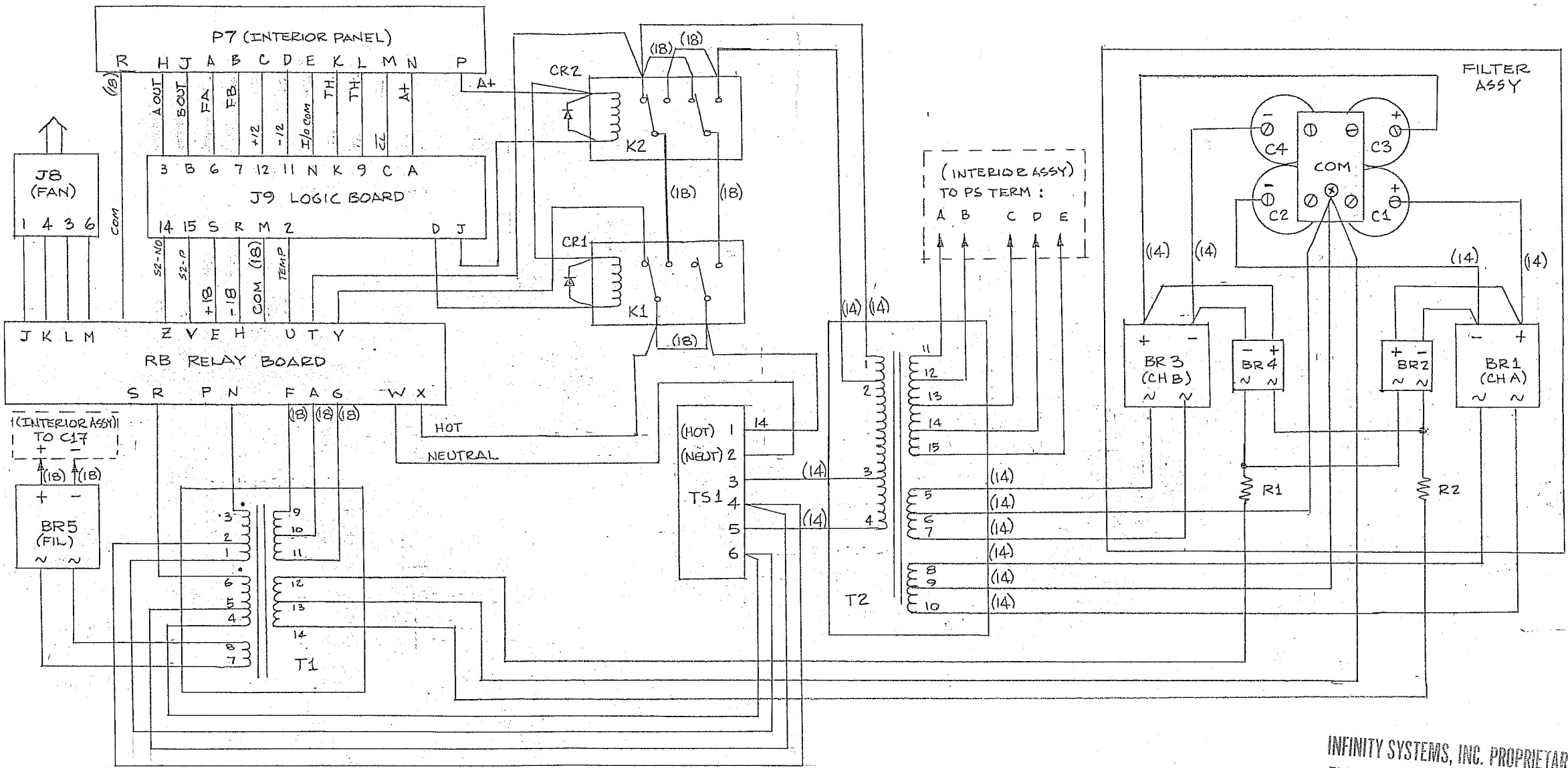
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- ④ FOR 120VAC OPERATION, F1 = 1 AMP. S.B.  
 FOR 240VAC OPERATION, F1 = .5 AMP. S.B.
- U1 IS CMOS 4011B
  - ALL CAPACITORS IN MICROFARADS.
  - ALL RESISTORS IN OHMS, 1/4 W, ±5%.
- NOTES—UNLESS OTHERWISE SPECIFIED:

OCT 08 1993

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES = .XX = .XXX =				
MATERIAL		CONTRACT NO.		APPROVALS DATE 3-8-79
FINISH		DRAWN P. BROWN		
NEXT ASSY		CHECKED [Signature]		DATE 4/6/79
USED ON		ISSUED [Signature]		SCALE 11/1/79
APPLICATION		DO NOT SCALE DRAWING		SIZE C
			FSCM NO. 917010	DWG. NO. DD60-0002-2
			REVISION A	SHEET

DWG. NO. DD60-0002-2  
 SH. 1  
 REV. A



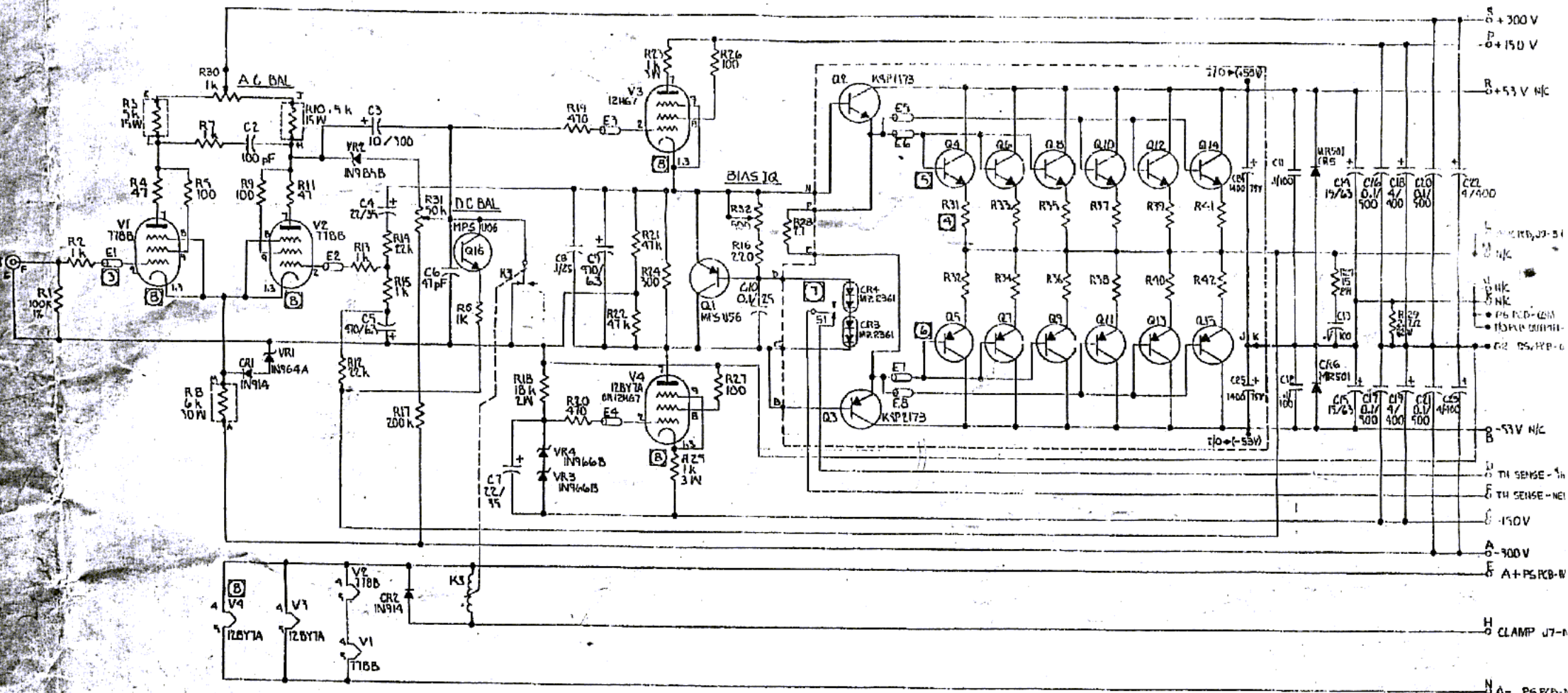
NOTES: ALL WIRE TYPE "E" TEFLON STRANDED; SIZE AWG 22 UNLESS OTHERWISE NOTED ( ).

POWER SUPPLY ASSY WIRING DIAGRAM

6-1-79  
Bob Day

OCT 08 1993

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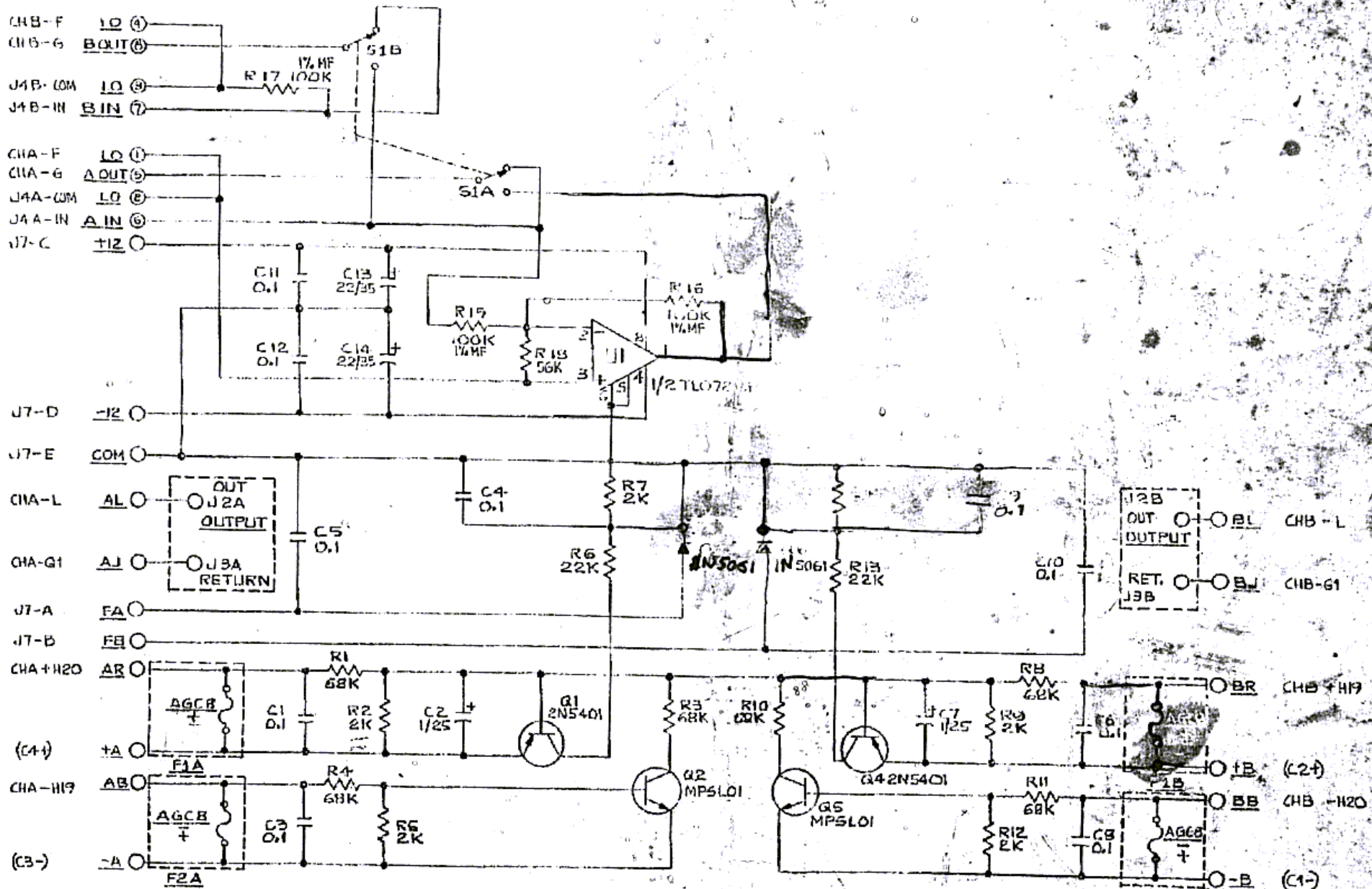
COMPONENTS SHOWN INSIDE DOTTED  
 LINES AND THEIR IDENTIFIERS ARE OFF THE P.C. BOARD.  
 ELEMENTS SHOWN REMOVED AND  
 IDENTIFIED FOR CLARITY.

R2 & R3 ARE ALL MOUNTED ON HEATSINK, ASSY # 717016  
 R8, R10, R12, R14 ARE ISI P/N # 321586  
 R9, R11, R13, R15 ARE ISI P/N # 320909  
 R4, R6, R7, R17 ARE 0.5 W. 3 W.  
 R1, R5, R16, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42 ARE FERRITE BEADS ISI P/N  
 R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100 ARE VALUES IN MICROFARADS / VOLTAGES.  
 R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R193, R194, R195, R196, R197, R198, R199, R200 ARE VALUES IN OHMS, 1/2 W, 5%.  
 UNLESS OTHERWISE SPECIFIED

**LEGEND**

REV		DATE		PARTS LIST		CONTRACT NO.		DATE	
717006	717007	APPROVED	DATE	APPROVALS	DATE	SCHEMATIC AMPLIFIER BD. & HEATSINK ASSY - HCA PN # 717012 & 717016			
717006	717007	7/1/57	5-18-57	7/1/57	5-18-57	917010 DD60-0005-2			
717006	717007	7/1/57	5-18-57	7/1/57	5-18-57	917010 DD60-0005-2			





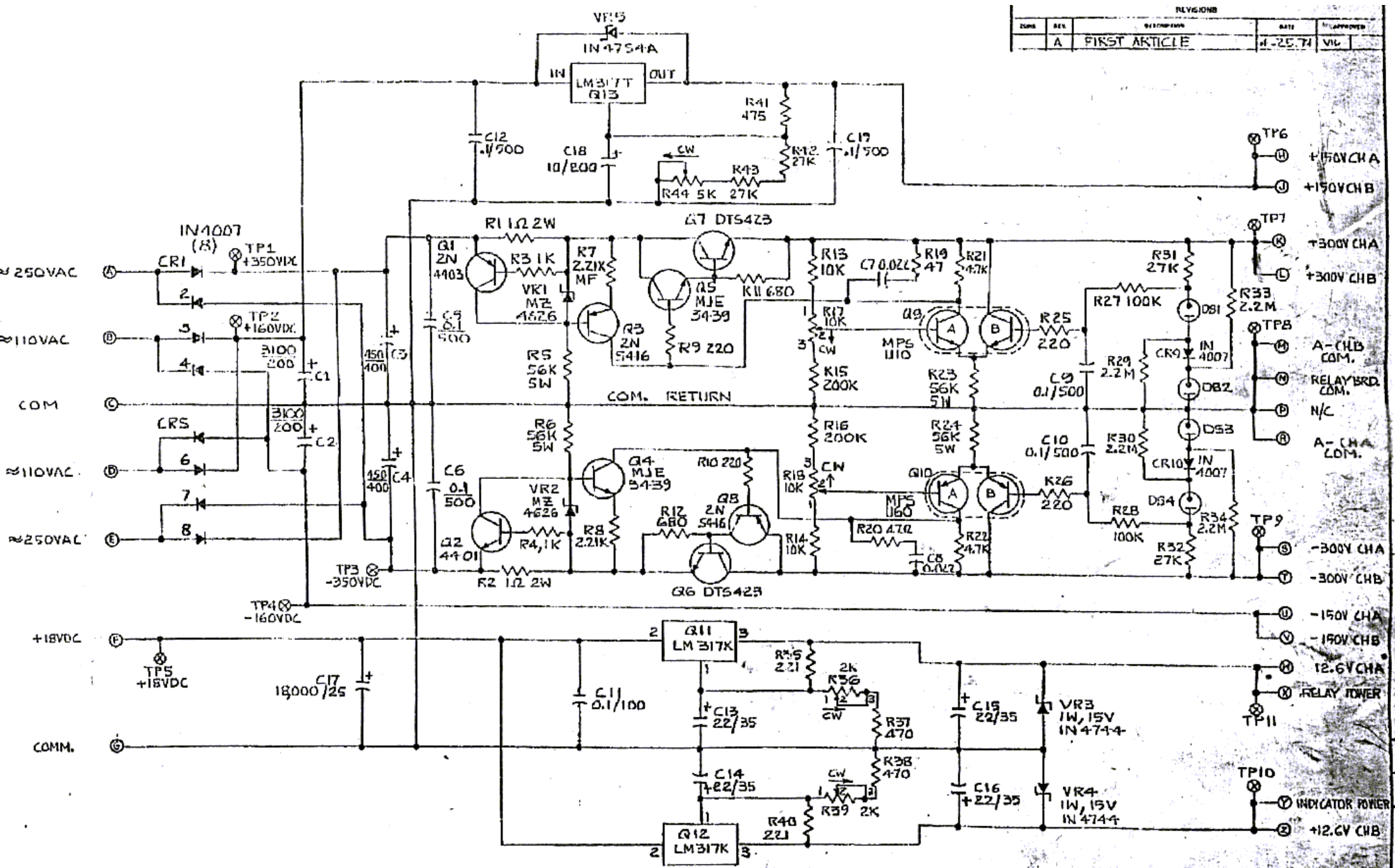
**NOTES:**

1. ALL RESISTORS ARE 1/4W, 5%.
2. 0.1MF CAPACITORS ARE MONOLITHIC CERAMIC.
3. 1/25V CAPACITORS ARE DIPPED TANTALUM.
4. UNDERLINED DESIGNATIONS APPEAR AS PRINTED.
5. BROKEN LINES INDICATE CHASSIS MOUNTED COMPONENTS.

P/N 457008

QTY	REQD	CODE	PART OR IDENTIFYING NO.	QUANTITY OR DESCRIPTION	REVISION
UNLESS OTHERWISE SPECIFIED			CONTRACT NO.		
RESISTORS AND CAPACITORS			APPROVALS		
VALUES ARE IN OHMS			DATE		
FRACTIONS DECIMALS			DRAWN		
1/2 1/10 1/100			1/2 1/20 1/200		
RESISTORS			SCHEMATIC DIAGRAM		

REVISIONS				
DATE	REV.	DESCRIPTION	DATE	APPROVED
	A	FIRST ARTICLE	1-25-74	VLC



NOTES: UNLESS OTHERWISE SPECIFIED.  
 1. RESISTORS ARE IN OHMS, 1/2W, 5%.  
 2. CAPACITORS ARE IN MICROFARADS.

QTY	CODE	PART OR	DESCRIPTION	REVISIONS
REQD	IDENT	IDENTIFYING NO.	OR DISCREP	
			FAHLS LIST	
UNLESS OTHERWISE SPECIFIED			CONTRACT NO.	
CONTINUOUS ARE IN INCHES				
FRACTIONS DECIMALS				