

DX-10 COVERSHEET INDEX

THE DRAWINGS IN THIS PACKAGE ARE IN ORDER BY PART NUMBER EXCEPT FOR THE FIRST FOUR DRAWINGS

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839-6208-264	Cabinet Outline/Installation (2 sheets)
839-6208-241	Wiring Diagram, Overall Delta (2 sheets)
839-6208-282	Wiring Diagram, Overall WYE (2 sheets)
839-6208-088	Modulation Encoder (4 sheets)
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839-6208-111	Led Board (4 sheets)
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839-7953-001	Output Sample Board
839-8222-078	Frequency Determined Chart
843-5155-851	Oscillator, Auto (2 sheets)
843-5400-081	Power Distribution Sch
843-5400-101	Output Monitor (3 sheets)
843-5400-431	A/D Converter (3 sheets)
843-5400-447	Analog Input (2 sheets)
843-5400-641	PWA, AD7525KN Replacement

ALPHABETICAL INDEX

843-5400-431	A/D Converter (3 sheets)
843-5400-447	Analog Input (2 sheets)
839-6208-225	Buffer Amplifier
839-6208-264	Cabinet Outline/Installation (2 sheets)
839-6208-100	Controller (3 sheets)
839-6208-427	Coversheet
839-6208-089	DC Regulator (2 sheets)
839-6208-227	Driver Supply Regulator
839-6208-099	External Interface (3 sheets)
839-8222-078	Frequency Determined Chart
839-6208-111	Led Board (4 sheets)
839-6208-088	Modulation Encoder (4 sheets)
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839-6208-285	Tuning Chart (3 sheets)
839-6208-241	Wiring Diagram, Overall Delta (2 sheets)
839-6208-282	Wiring Diagram, Overall WYE (2 sheets)

NOTES

REV	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
J	.		12-9-03	BAK	TLH	49774
FD CHART CHANGED FROM 839 6208 284						
K	.		DEC 9, 2004	SEC	SEC	50683
ADDED 843-5155-851						



HARRIS CORPORATION
BROADCAST COMMUNICATIONS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN	SAM CROUCH
DATE	JAN 29, 1994
ENG	CROUCH
CHK	CROUCH
PROJ	STEVE SPRADLIN
ENG	CROUCH
MFG	CROUCH
ENG	CROUCH

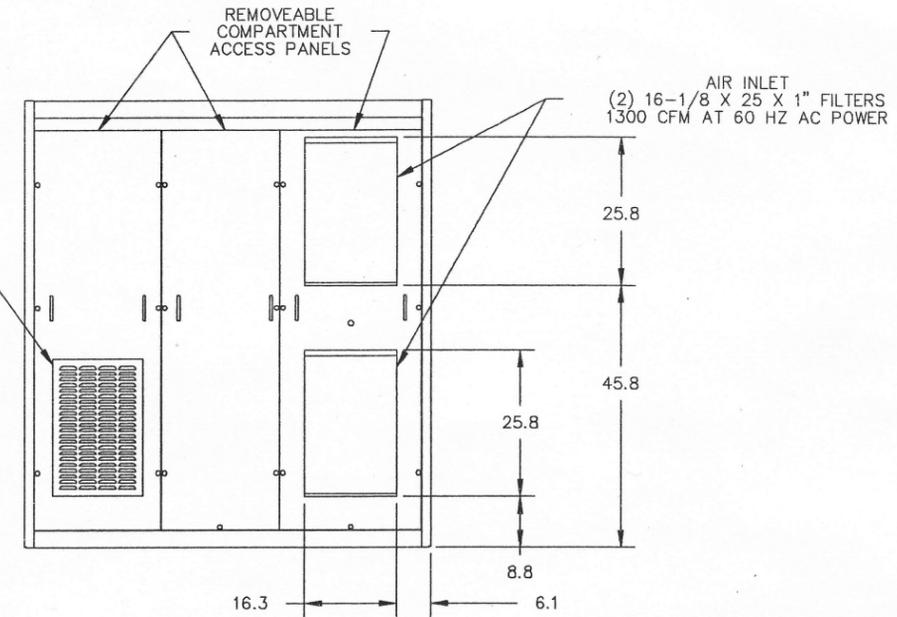
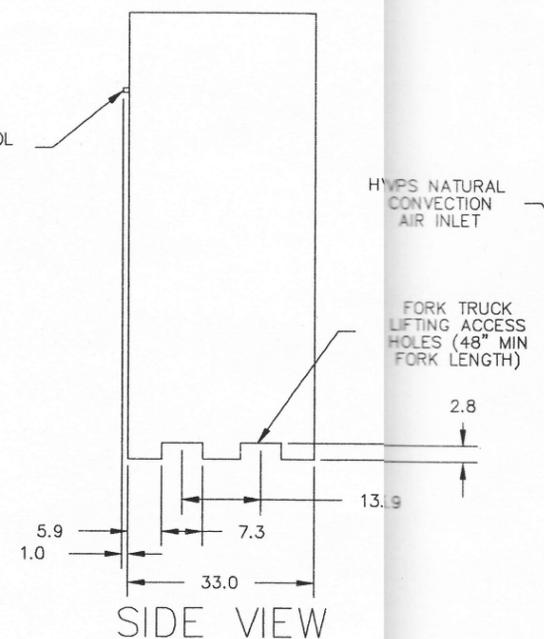
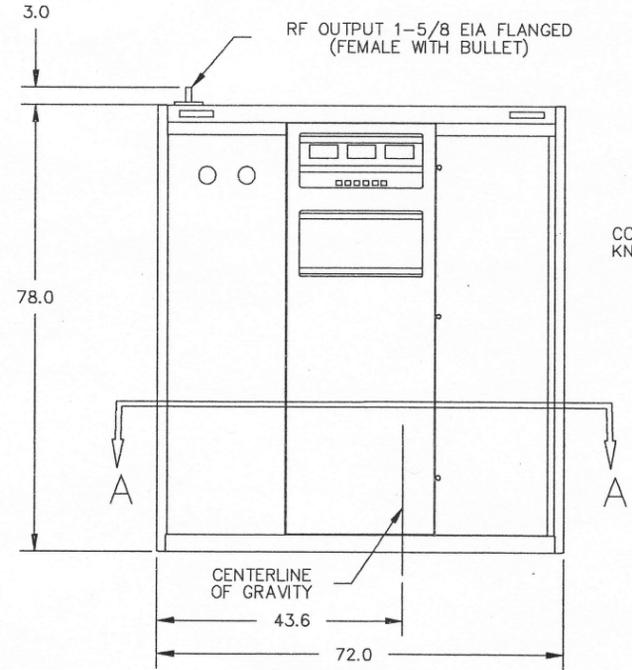
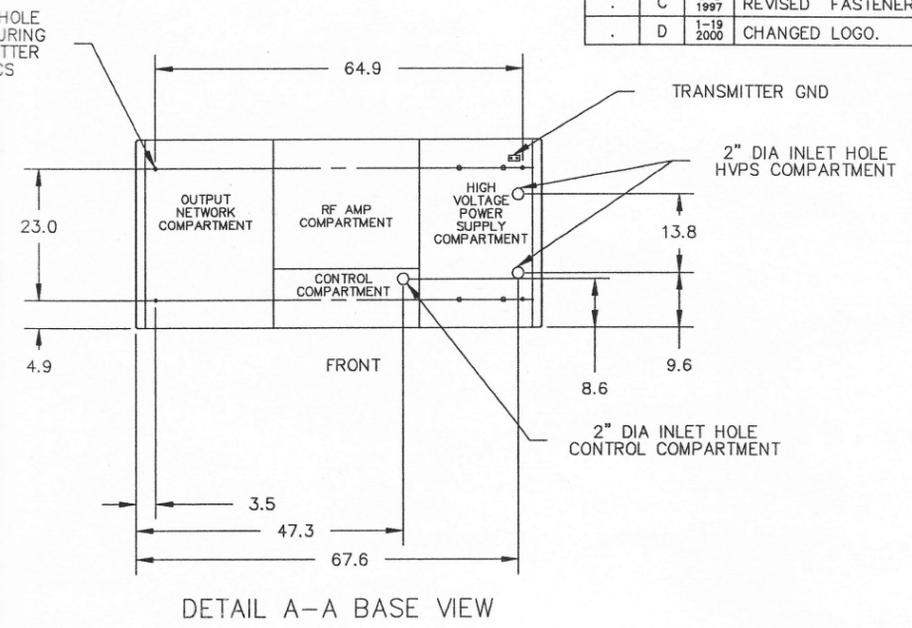
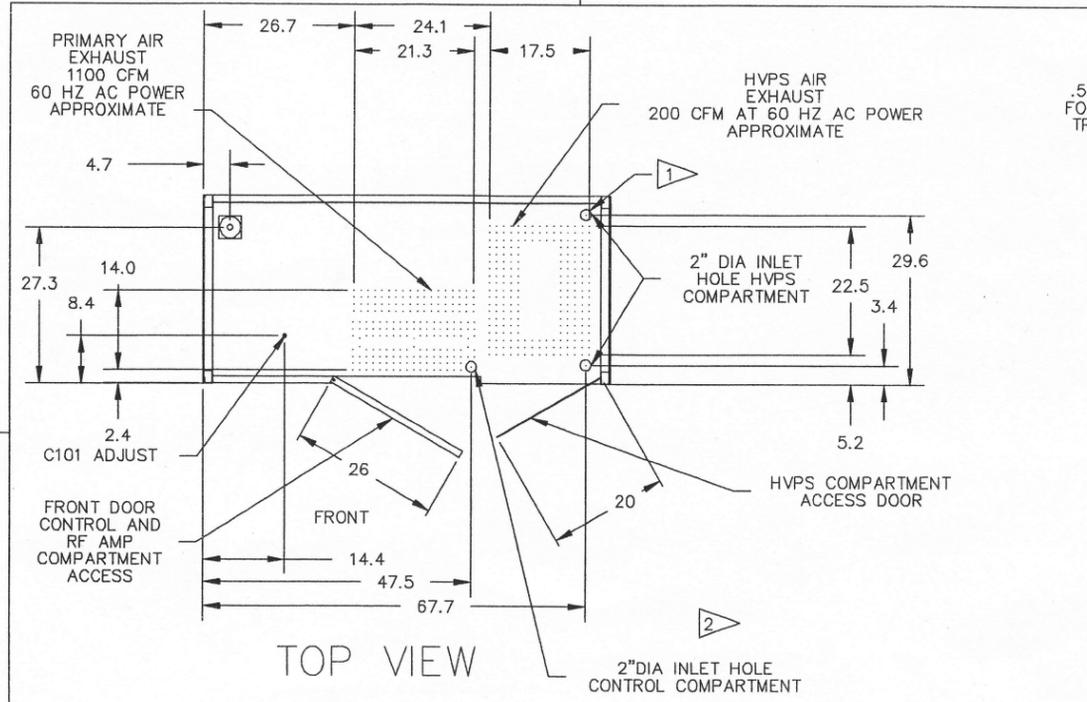
TITLE
COVERSHEET, DX-10

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DWG NO. 839-6208-427

REV K

		839 6208 264			
B	89	REVISED SHEET 2	DR	35260	
C	5-3 1997	REVISED FASTENERS, SHEET 1 & 2	SEC	SEC	41759
D	1-19 2000	CHANGED LOGO.	VRM	SJS	45659



TOP VIEW

DETAIL A-A BASE VIEW

FRONT VIEW

SIDE VIEW

REAR VIEW

- 2 EXTERNAL INTERFACE TERMINATION 6" BELOW THIS INLET
- 1 AC POWER TERMINATION 40" BELOW THIS INLET

UNLESS NOTED: DIMENSIONS ARE IN INCHES
TOLERANCES:
.X ± .030
.XX ± .015
.XXX ± .005
ANGLES ± 1 DEG.

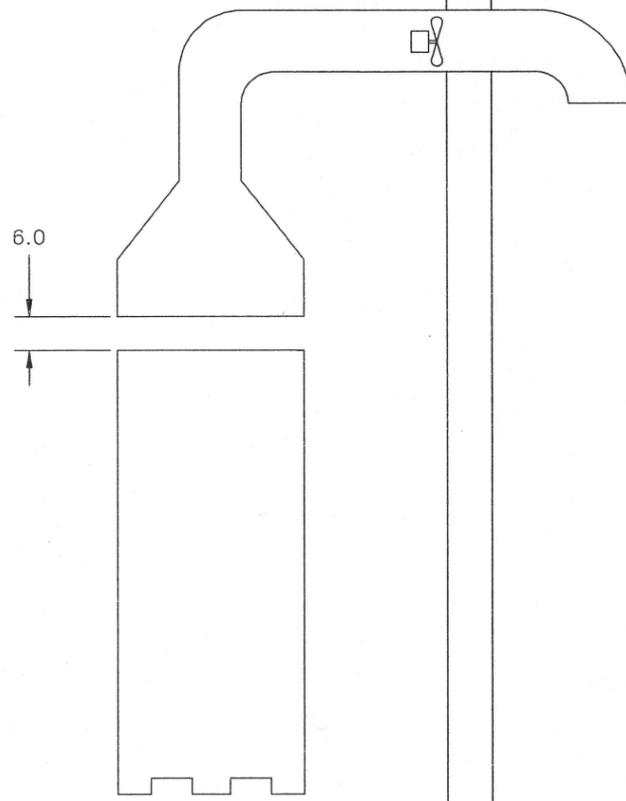
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QUINCY, ILLINOIS 62305

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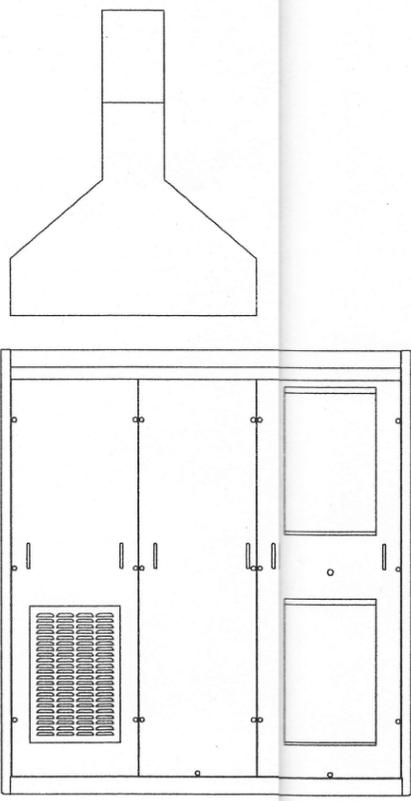
DR. BY CR 6-25-87	TITLE	
ENG. CHK. GJK 12/1/87	CABINET OUTLINE,DX10	
PROJ. ENG. MR 12/1/87		
MFG. ENG. MR 12/1/87		
MAT'L	SHEET 1 OF 2	DWG. NO. 839 6208 264

839 6208 264				
B	4/4	DELETED HIGH PRESSURE PORTS	DR	35260
C	5-3	REVISED FASTENERS	SEC	SEC 41759
D	1-19	CHANGED LOGO	VRM	SJS 45659

WHEN EXHAUST DUCT AND FAN ARE INSTALLED STATIC PRESSURE IN EXHAUST HOOD MUST BE BETWEEN 0.0" AND -0.1" H2O



SIDE VIEW



REAR VIEW

AC POWER REQUIREMENTS:

197-281 VAC, 3 PHASE, 48 TO 63 HZ
 3-WIRE DELTA,
 OR 341-468 VAC, 3 PHASE, 48 TO 63 HZ
 4-WIRE WYE.
 (INPUT TERMINAL #4 AWG MAX WIRE SIZE)

POWER CONSUMPTION:

18 KW OR LESS AT 10 KW OUTPUT,
 100% SINE WAVE MODULATION

TOTAL DISSIPATION AT 10KW OUTPUT,
 100% SINE WAVE MODULATION:

3,000 WATTS
 OR 10,300 BTUH.
 (CABINET HEAT RADIATION LESS THAN
 300 WATTS OR 1,030 BTUH)

FORCED CONVECTION AIR FLOW THROUGH TRANSMITTER:

AT 60 HZ AC POWER
 1300 CFM,
 AT 50 HZ AC POWER
 900 CFM.

NOISE LEVEL MEASURED ONE METER FROM FLOOR AND
 ONE METER FROM TRANSMITTER:

FRONT 63 dBA
 RIGHT SIDE 65 dBA
 LEFT SIDE 65 dBA
 REAR 72 dBA

TOTAL VOLUME:

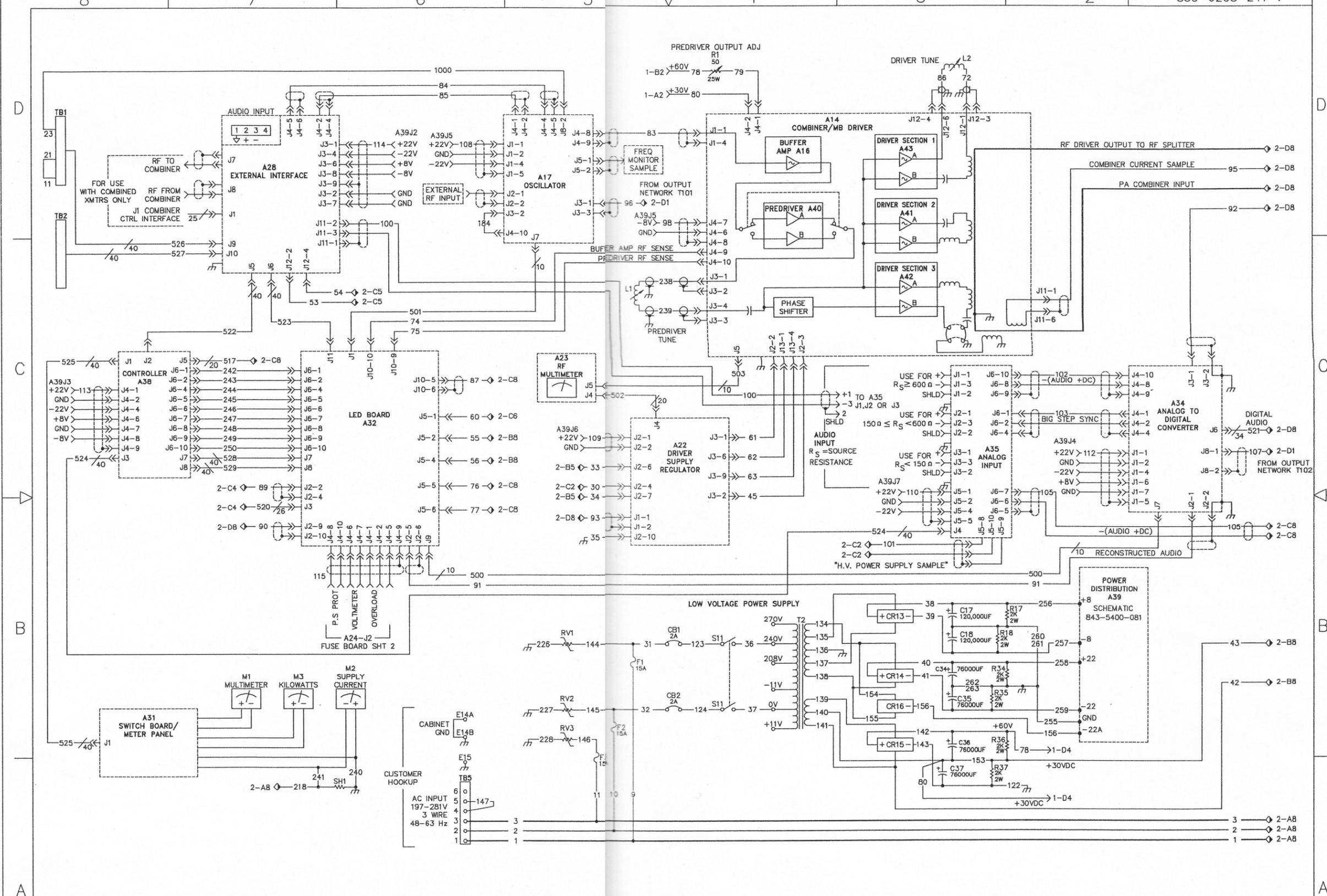
CUBIC FEET 107.25
 CUBIC METERS 3.04

WEIGHT:

1535 LBS
 696 KGS

- 3 INLET AIR TEMPERATURE MUST NOT EXCEED 50 DEGREES CENTIGRADE AT SEA LEVEL. DERATE AT 2 DEGREES CENTIGRADE PER 1,000 FEET ELEVATION.
- 2 EXHAUST SYSTEM SHOWN ON THIS DRAWING IS A SUGGESTED INSTALLATION. IF EXISTING TRANSMITTER SITE PRECLUDES THE USE OF THIS SYSTEM, CONSULTATION WITH A HVAC CONTRACTOR AND/OR HARRIS ENGINEERING DEPARTMENT IS REQUIRED.
- 1 IF EXHAUST AIR IS DUCTED FROM TRANSMITTER HALL, A FILTERED INLET AIR MAKE-UP SYSTEM MUST BE INSTALLED TO PREVENT THE TRANSMITTER FROM BECOMING AIR-STARVED AND OVERHEATED.

UNLESS NOTED: DIMENSIONS ARE IN INCHES TOLERANCES: .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG.		HARRIS HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	
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DR. BY	CR 6-25-87	TITLE	
ENG. CHK.	GJK 12/1/87		CABINET OUTLINE,DX10
PROJ. ENG.	MR 12/1/89		
MFG. ENG.	MR 12/1/89		
MAT'L		SHEET	DWG. NO.
		2 OF 2	839 6208 264



UNLESS OTHERWISE NOTED ALL
 1. RESISTORS IN OHMS
 2. CAPACITANCE IN MICRO-FARADS

REV	DATE	ZONE	DESCRIPTION	ENG	ECO NBR
1	APRIL 6, 2002	SEC	SEC		48124
2	DEC 09, 2004	SEC	SEC		50683

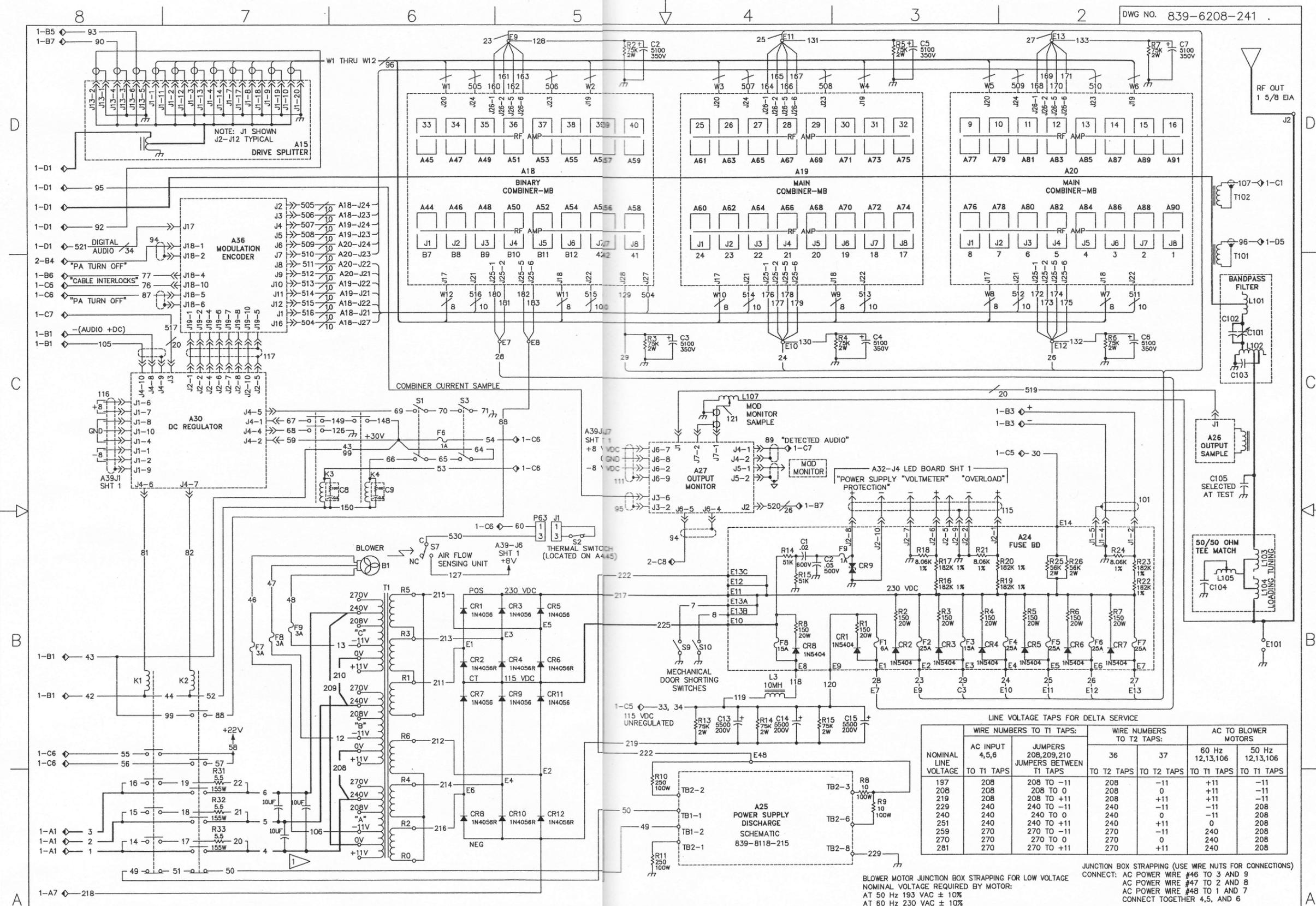
ADDED WIRE #1000



HARRIS CORPORATION
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 QUINCY, ILLINOIS 62305

DRAWN BY	D. GLOVER
DATE	NOV, 1987
ENG CHK	G.J. KELLER
PROJ ENG	N. RICHARDS
MFG ENG	M. RUSSELL
C	SHEET 1 OF 2

TITLE	SCHEM, DX-10 OVERALL
	3PH DELTA
DWG NO.	839-6208-241
REV	Z



NOTES
1. CAPACITORS REQUIRED FOR EUROPEAN AC CONDUCTED EMISSIONS COMPLIANCE.

REV	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
X			AUG 11, 2000	SEC	SEC	46305
Z			DEC 6, 2004	SEC	SEC	50683

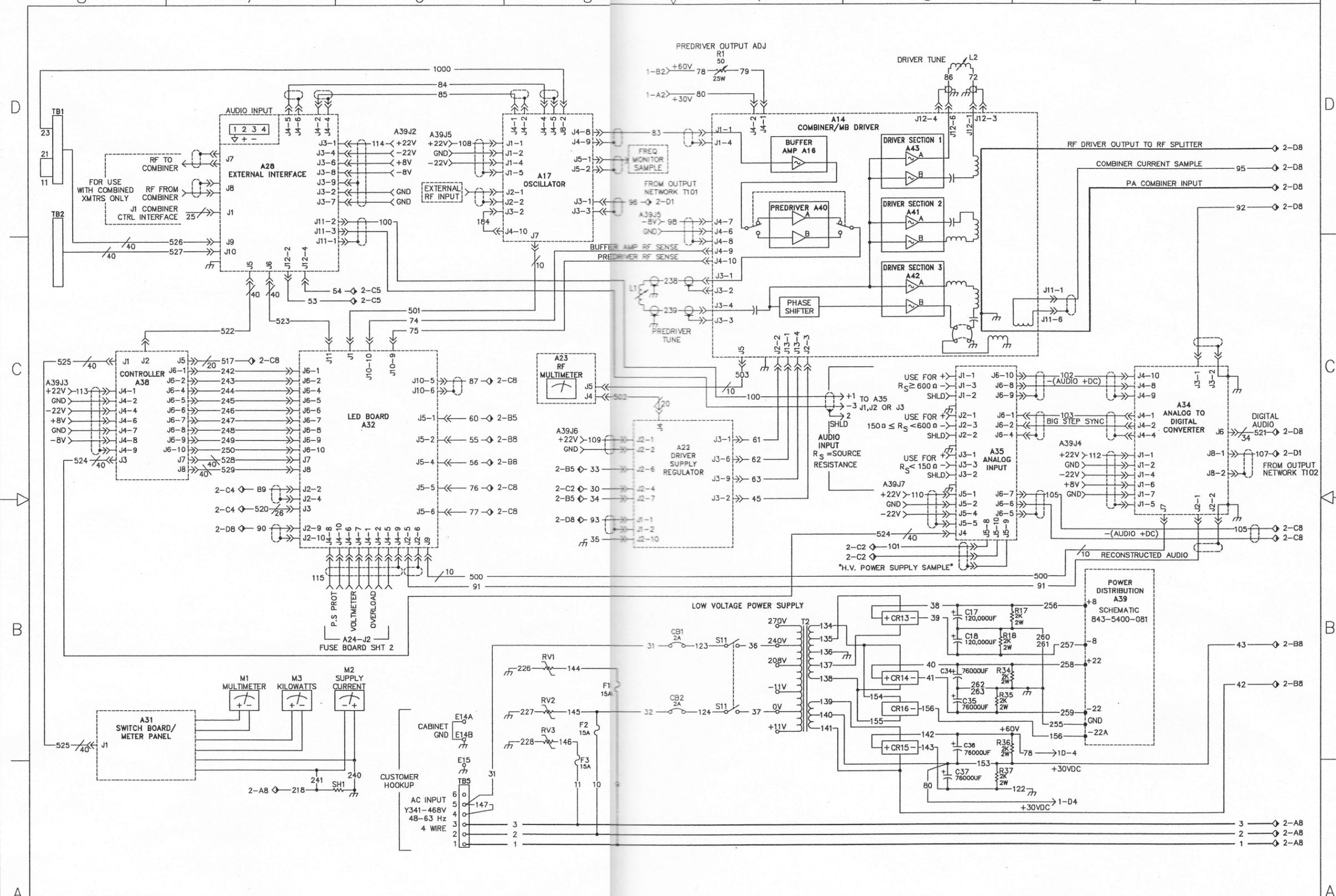
MOVED SHIELD OF WIRE 95 FROM PIN 5 TO PIN 2 @ A27J3
UPDATED REVISION PER ECO

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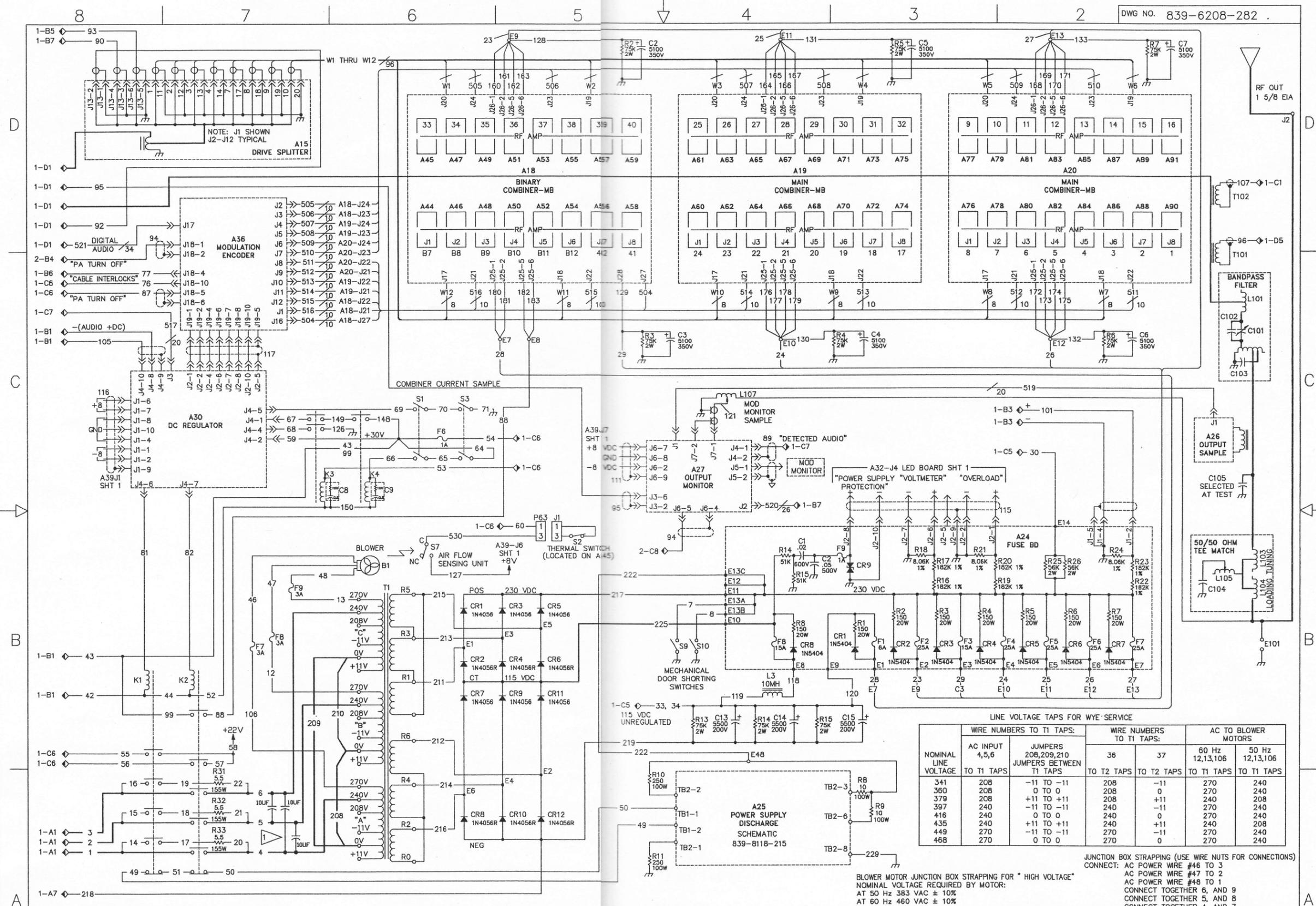
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DRAWN BY DFG
DATE 11-13-92
ENG CHK G.J. KELLER
PROJ ENG N. RICHARDS
MFG ENG M. RUSSELL
C SHEET 2 OF 2

TITLE
SCHEM, DX-10 OVERALL
3PH DELTA
DWG NO. 839-6208-241
REV Z



NOTES	UNLESS OTHERWISE NOTED ALL					LTR ZONE DATE DFTM ENG ECO NBR R APRIL 6, 2002 SEC SEC 48124 REVISED VALUE OF C17 AND C18 S DEC 9, 2004 SEC SEC 50683 ADD WIRE #1000	HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY R. SIMON DATE DEC, 1987 ENG CHK R. RIGGS 2-88 PROJ N. RICHARDS MFG ENG	TITLE SCHEM, DX-10 OVERALL 3PH WYE DWG NO. 839-6208-282.	SHEET 1 OF 2 REV S
	1. RESISTORS IN OHMS									
	2. CAPACITANCE IN MICRO-FARADS									
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LINE VOLTAGE TAPS FOR WYE SERVICE

NOMINAL LINE VOLTAGE	WIRE NUMBERS TO T1 TAPS:		WIRE NUMBERS TO T2 TAPS:		AC TO BLOWER MOTORS	
	AC INPUT 4,5,6 TO T1 TAPS	JUMPERS 208,209,210 JUMPERS BETWEEN T1 TAPS	36 TO T2 TAPS	37 TO T2 TAPS	60 Hz 12,13,106 TO T1 TAPS	50 Hz 12,13,106 TO T1 TAPS
341	208	-11 TO -11	208	-11	270	240
360	208	0 TO 0	208	0	270	240
379	208	+11 TO +11	208	+11	240	208
397	240	-11 TO -11	240	-11	270	240
416	240	0 TO 0	240	0	270	240
435	240	+11 TO +11	240	+11	240	208
449	270	-11 TO -11	270	-11	270	240
468	270	0 TO 0	270	0	270	240

JUNCTION BOX STRAPPING (USE WIRE NUTS FOR CONNECTIONS)
 CONNECT: AC POWER WIRE #46 TO 3
 AC POWER WIRE #47 TO 2
 AC POWER WIRE #48 TO 1
 CONNECT TOGETHER 6, AND 9
 CONNECT TOGETHER 5, AND 8
 CONNECT TOGETHER 4, AND 7

NOTES
 1. CAPACITORS REQUIRED FOR EUROPEAN AC CONDUCTED EMISSIONS COMPLIANCE.

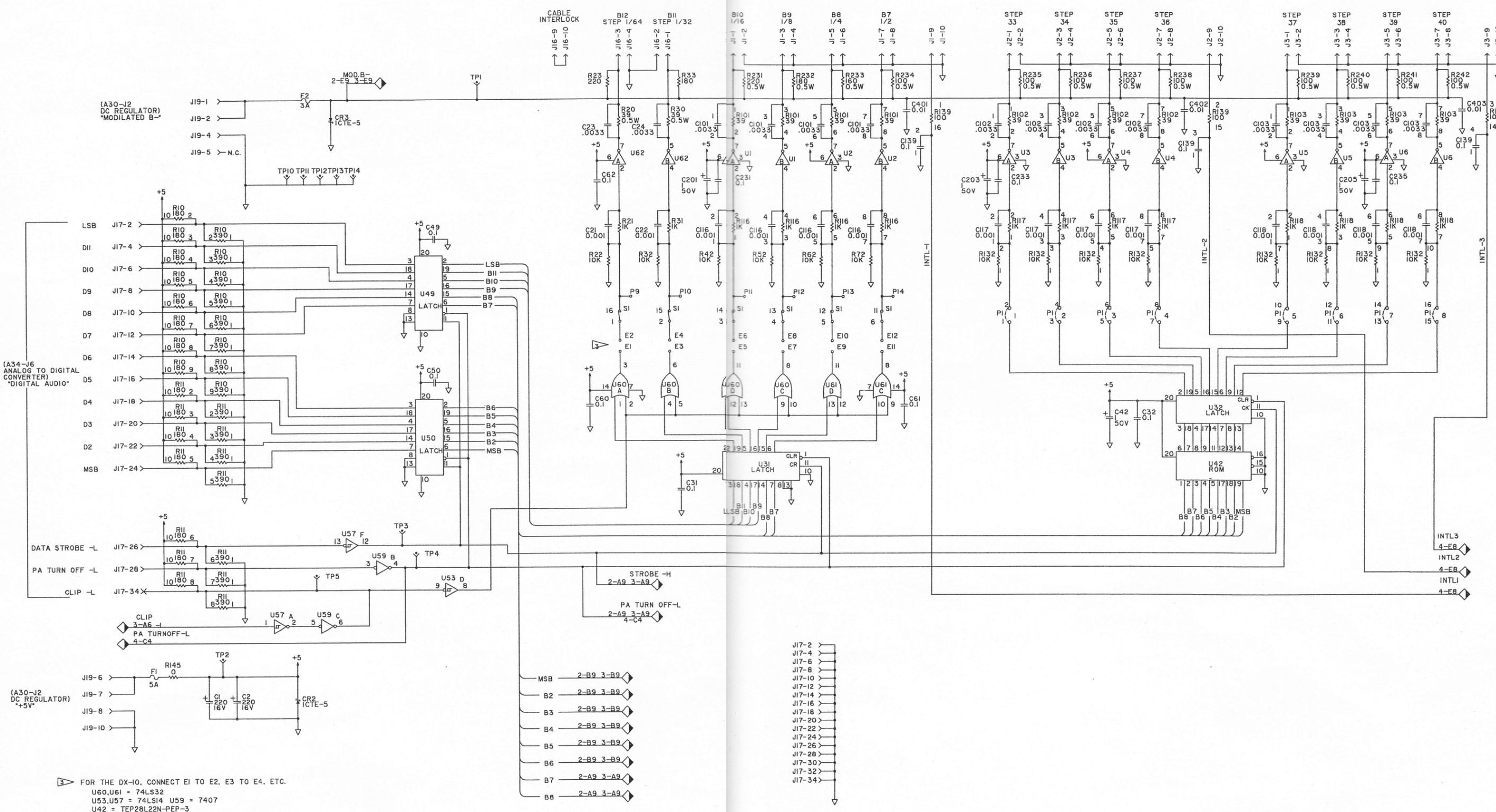
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R			APRIL 6, 2002	SEC	SEC	48124
UPDATED REVISION PER ECO						
S			DEC 9, 2004	SEC	SEC	50683
UPDATED REVISION PER ECO						



HARRIS CORPORATION
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DRAWN BY R. SIMON
 DATE DEC, 1987
 ENG CHK R. RIGGS 2-88
 PROJ ENG N. RICHARDS
 MFG ENG
 SHEET 2 OF 2

TITLE SCHEM, DX-10 OVERALL
 3PH WYE
 DWG NO. 839-6208-282
 REV S

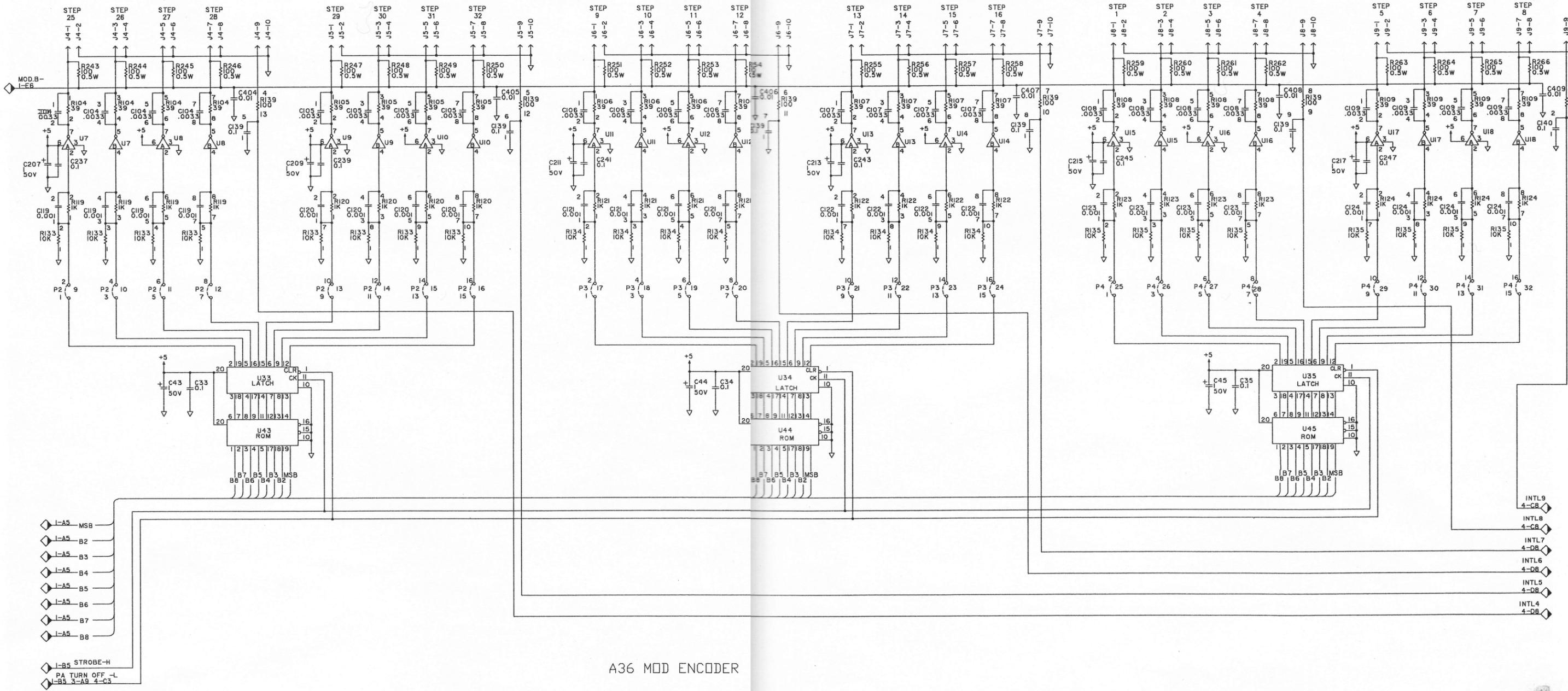


A36 MOD ENCODER

FOR THE DX-10, CONNECT EI TO E2, E3 TO E4, ETC.
 U60,U61 = 74LS32
 U53,U57 = 74LS14 U59 = 7407
 U42 = TEP28L22N-PEP-3
 U31,U32,U49,U50 = 74HCT273
 U1 THROUGH U6,U62 = DS0026CN
 2. CAPACITANCE IS IN UF
 1. RESISTORS ARE IN OHMS .25W 5%
 UNLESS OTHERWISE NOTED ALL

NOTE:
 THIS DRAWING CONVERTED FROM GERBER FORMAT
 NOT TO BE USED FOR NEW DESIGN OR RELEASES
 UNLESS IT IS COMPLETELY CONVERTED TO AutoCAD TEXT
 UPDATED AutoCAD TEXT IS ADDED IN YELLOW

NOTES	LTR	ZONE	DATE	DFTM	ENG	ECO NBR	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY	R. SIMON	TITLE	SCHEM, MOD ENCODER DX-10
	K		JUNE 12, 1998	SEC		42218		DATE	-		
	REVISED NOTE 3, UPDATED FORMAT							ENG CHK	GJK 12-1-87		
							PRD J	RICHARDS 12-1-87			
							MFG ENG	RUSSELL 12-1-87			
								SHEET 1 OF 4		DWG NO. 839-6208-088	REV K



A36 MOD ENCODER

NOTES

U43,U44,U45 = TB28L22N-PEP-3
 U33,U34,U45 = 74HC273
 U7 THROUGH U18 = DS0026CN

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	UPDATED FORMAT					

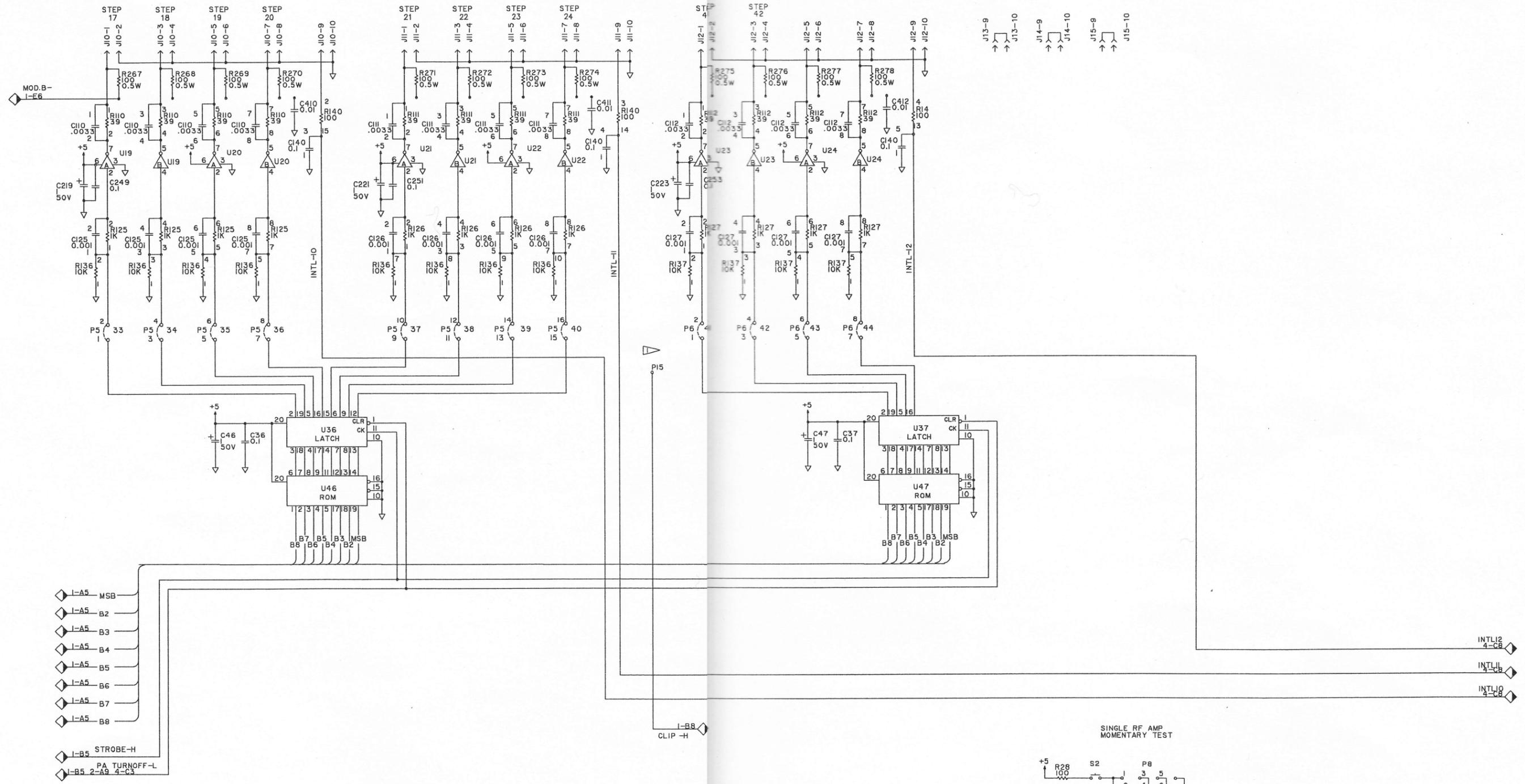


HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	R. SIMON
DATE	-
ENG CHK	GJK 12-1-87
PROJ ENG	RICHARDS 12-1-87
MFG ENG	RUSSELL 12-1-87
SHEET	2 OF 4

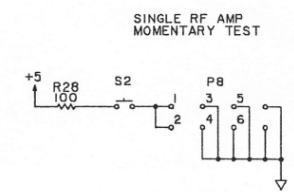
TITLE	SCHEM, MOD ENCODER DX-10
DWG NO.	839-6208-088
REV	

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▲ PIN 9 AND 10 ARE JUMPED AT J13, J14, J15 FOR DX IO USAGE
 THIS DEFEATS THE CABLE INTERLOCK FOR THE UNUSED CONNECTORS
 ▼ USE THE PATCH CABLE PROVIDED TO JUMPER P15 TO THE FIRST UNUSED
 MODULATOR LINE. I.E. CONNECT TO P6-5 FOR A FULLY OPERATIONAL DXIO.

U46,U47 = TBP28L22N-PEP-3
 U36,U37 = 74HCT273
 U19 THROUGH U30 = DS0026CN



A36 MOD ENCODER

NOTES

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 UPDATED AutoCAD TEXT IS ADDED IN YELLOW

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
	K		JUNE 12, 1998	SEC		42218
	UPDATED FORMAT					

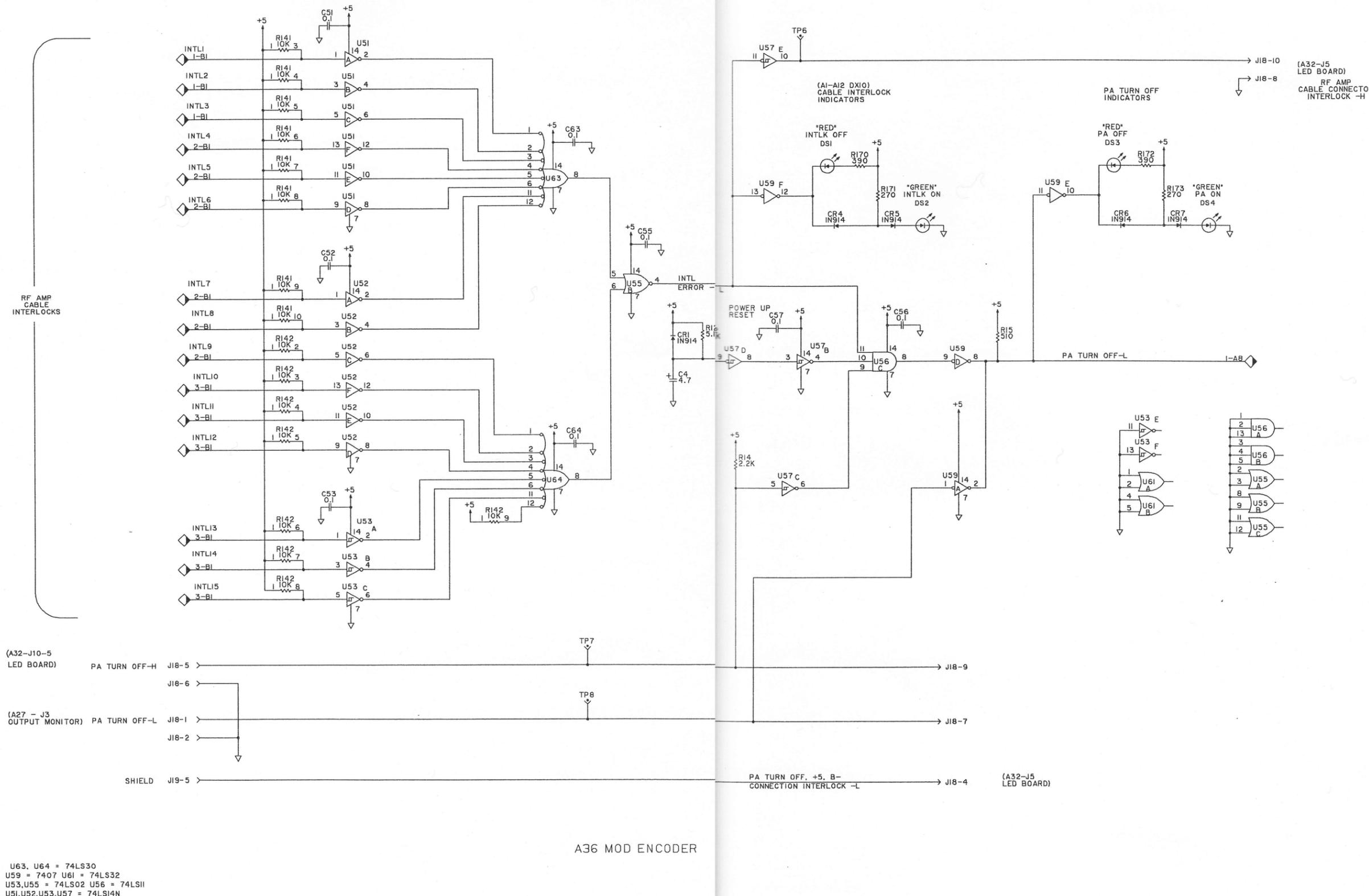


HARRIS CORPORATION
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 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	R. SIMON
DATE	-
ENG CHK	GJK 12-1-87
PRJ ENG	RICHARDS 12-1-87
MFG ENG	RUSSELL 12-1-87
	SHEET 3 OF 4

TITLE	SCHEM, MOD ENCODER DX-10
DWG NO.	839-6208-088
REV K	

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A36 MOD ENCODER

U63, U64 = 74LS30
 U59 = 7407 U61 = 74LS32
 U53, U55 = 74LS02 U56 = 74LS11
 U51, U52, U53, U57 = 74LS14N

NOTE:
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NOTES

REVISION	LTR	ZONE	DATE	DFTM	ENG
	K		JUNE 12, 1998	SEC	
	UPDATED FORMAT				

ECO NBR	42218
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HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

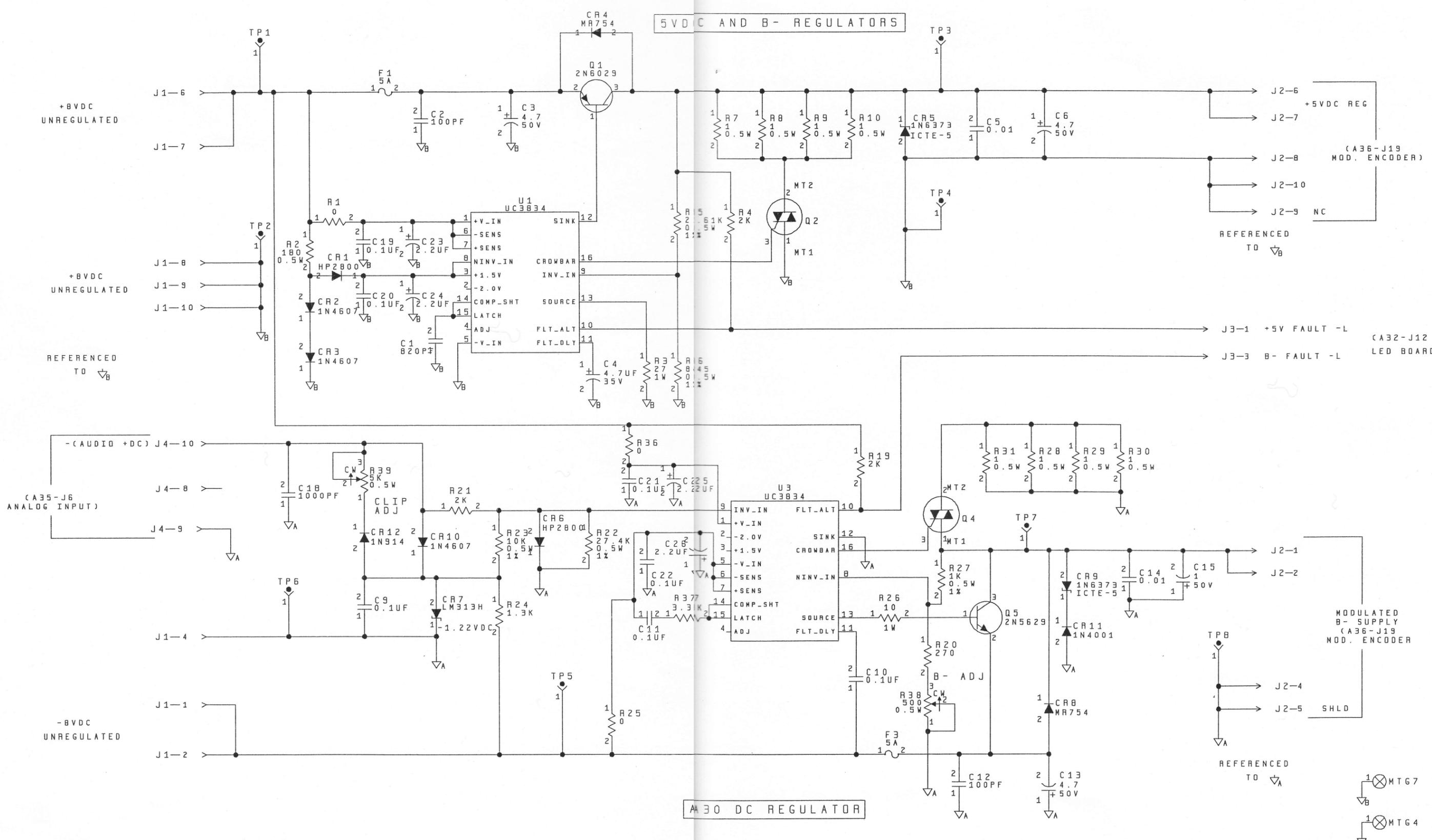
DRAWN BY	R. SIMON
DATE	-
ENG CHK	GJK 12-1-87
PROJ ENG	RICHARDS 12-1-87
MFG ENG	RUSSELL 12-1-87
* SHEET	4 OF 4

TITLE	SCHEM, MOD ENCODER DX-10
DWG NO.	839-6208-088
REV	K

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5VDC AND B- REGULATORS

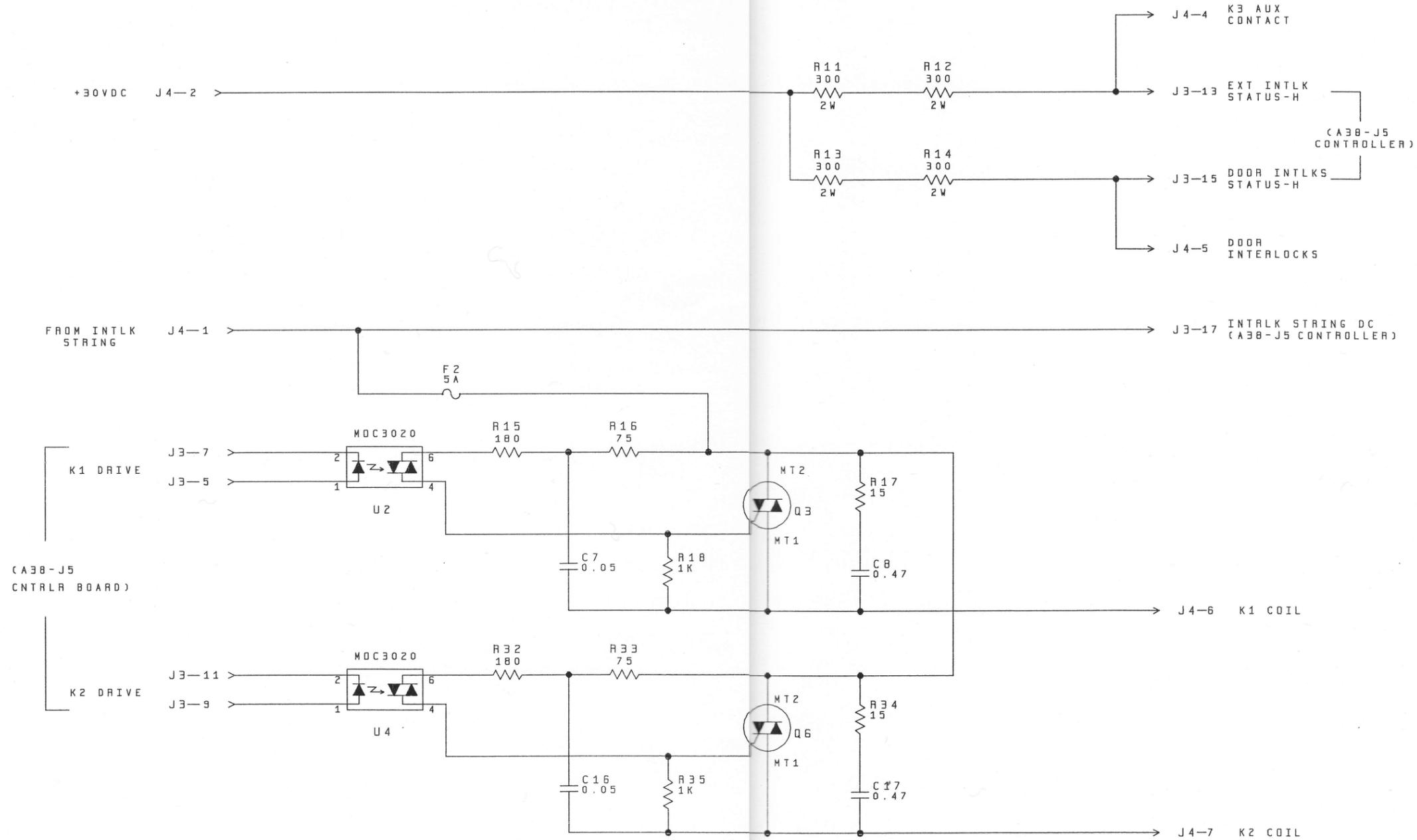
A30 DC REGULATOR



7. ∇_A AND ∇_B ARE NOT COMMON ON PC BOARD

NOTES 1. ALL RESISTORS ARE 1/2 WATT, 1%. 2. RESISTANCE IN OHMS. 3. CAPACITANCE IN UF. 4. INDUCTANCE IN UH. UNLESS OTHERWISE NOTED:	6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT. 7. SHEET NUMBER ZONE (2/A1) CONTINUATION SYMBOL	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM	HARRIS HARRIS CORPORATION BROADCAST SYSTEMS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY B.BEEVER DATE 8-85 ENG CHK SIMON 11-87 PROJ ENG N.R. 12-87 MFC ENG M.R. 12-87 D SHEET 1 OF 2	TITLE	SCHEM. DC REGULATOR DWG # 839-6208-089 REV R
		GROUND 2 MOUNTING HOLES AND PIN 9 OF J1	P		3-21-00	JPK		45866		THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.		
		DEL NOTE B: R6 WAS 1K; R5 WAS 2.37K										

CONTACTOR DRIVERS AND INTERLOCK STATUS



- NOTES
- INDUCTANCE IN UH.
 - CAPACITANCE IN UF.
 - RESISTANCE IN OHMS.
 - ALL RESISTORS ARE 1/2 WATT, 1%.
 - UNLESS OTHERWISE NOTED:
 - 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
 - SHEET NUMBER ZONE
 - (2/A1) CONTINUATION SYMBOL

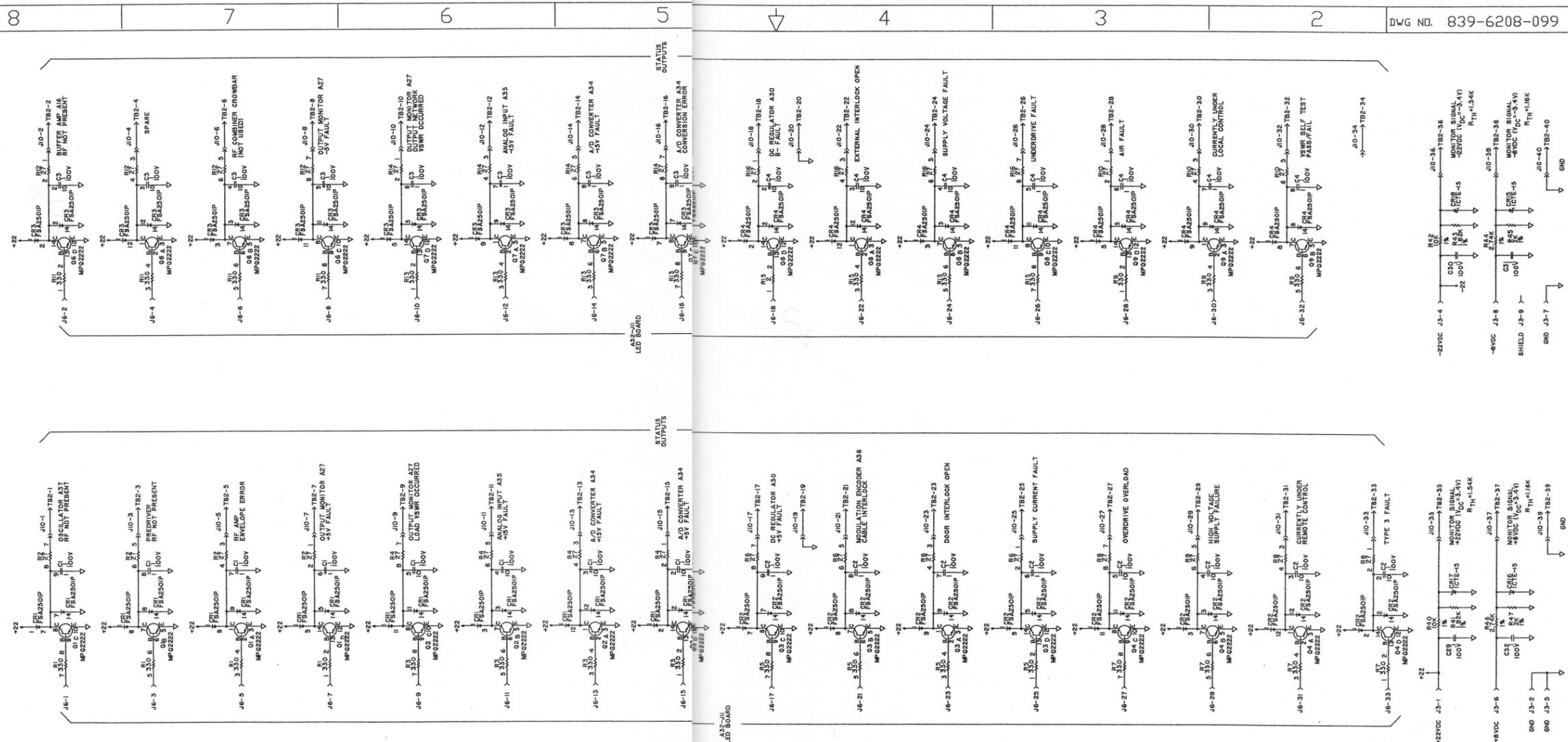
REV	DATE	BY	CHK	ENG	ECD NUM
R	7-13-00	RLB	RLB		46172
REVISE SHEET 1					
P	3-21-00	JPK			45866
REVISE SHEET 1					

HARRIS

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DRAWN BY		TITLE	
B. BEEVER		SCHEM. DC REGULATOR	
DATE	8-85		
ENG	SIMON 11-87		
PRJ	N.R. 12-87		
ENG	M.R. 12-87		
D	SHEET 2 OF 2	DWG #	839-6208-089
		REV	R



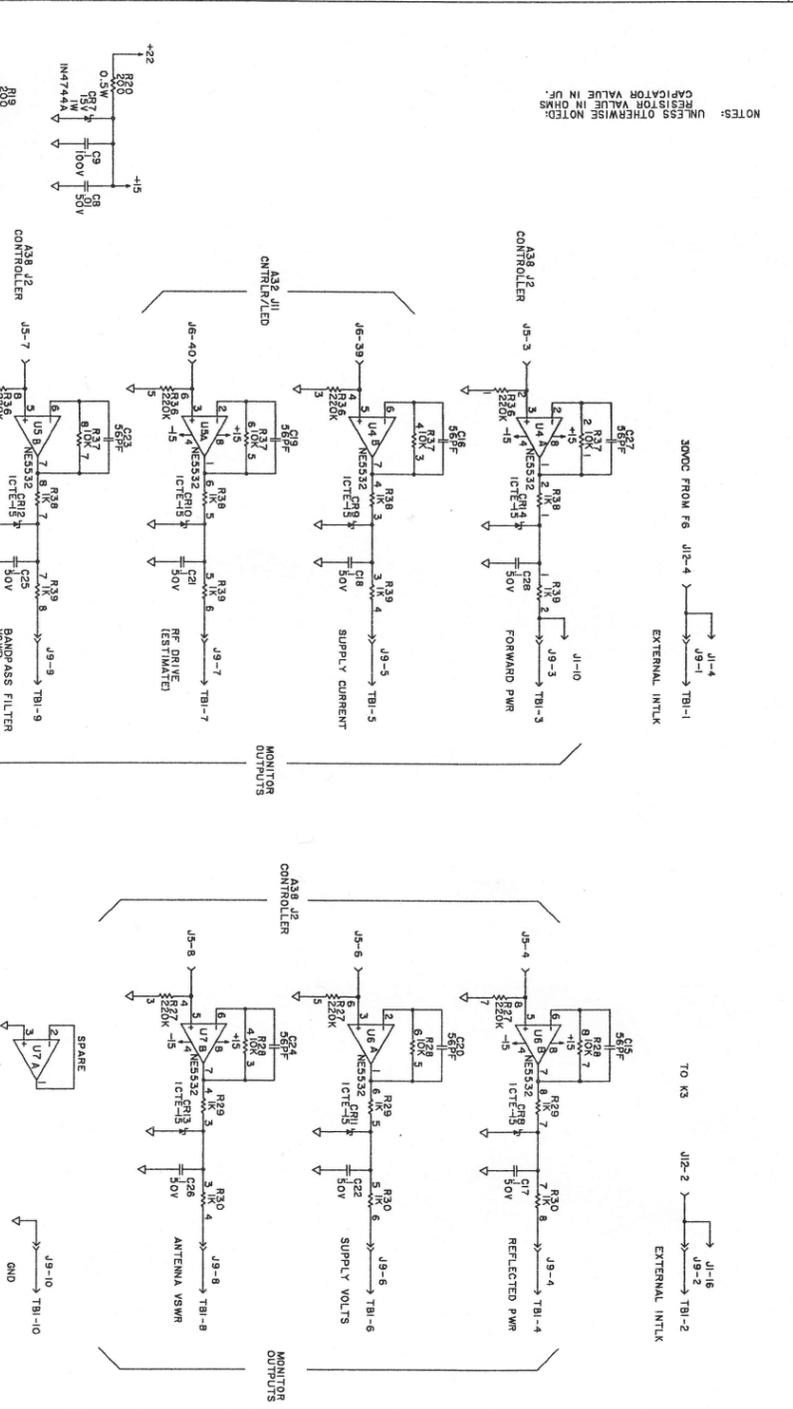
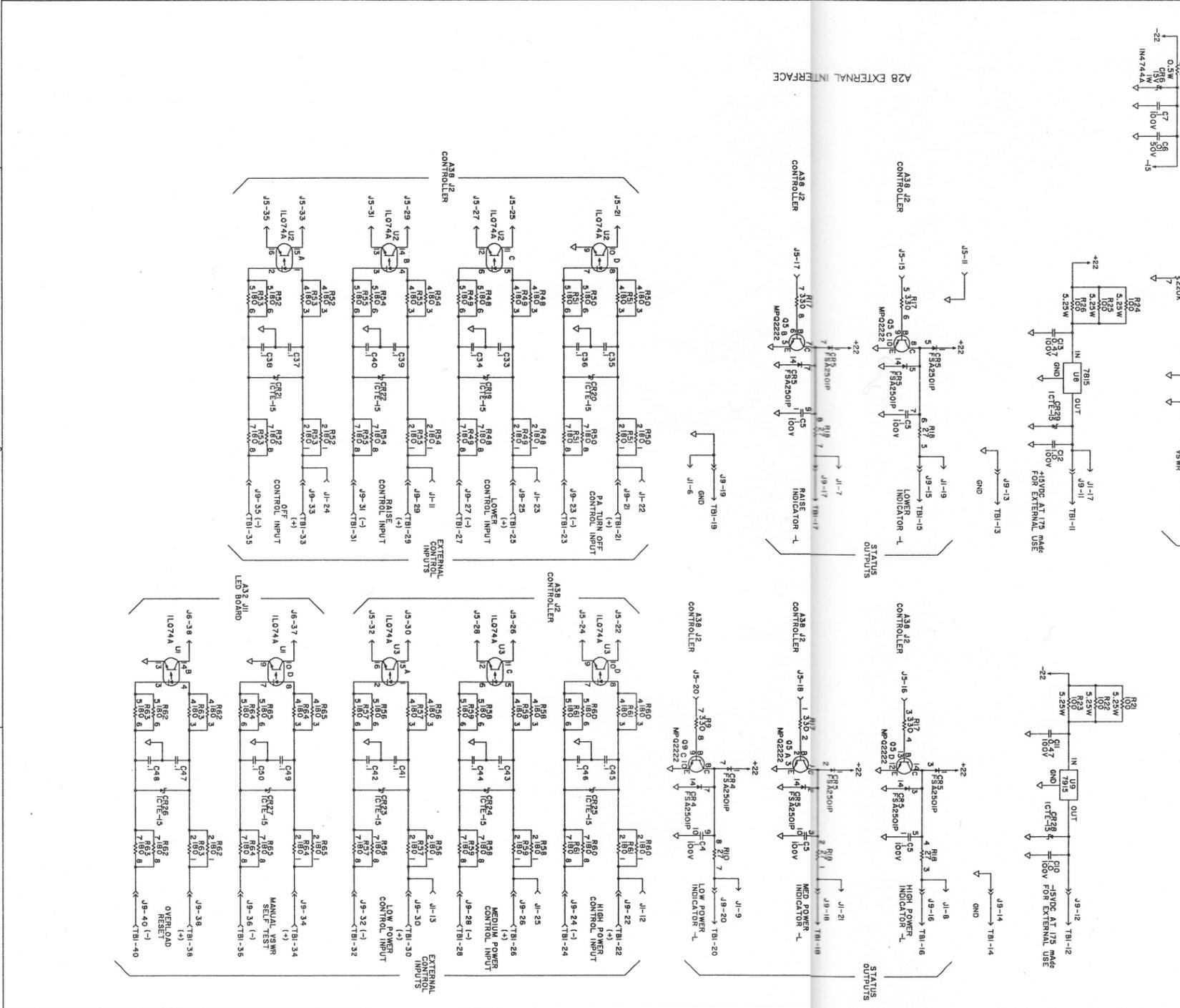
NOTES: UNLESS OTHERWISE NOTED, RESISTOR VALUE IN OHMS, CAPACITOR VALUE IN UF.

A28 EXTERNAL INTERFACE

NOTES	REVISION	DATE	DFTM	ENG	ECD NBR	<p>HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305</p>	DRAWN BY	A BUSS	TITLE	SCHEM, EXTERNAL INTERFACE - - - DWG NO. 839-6208-099. REV E2
	E1	JUNE 13, 1998	SEC		DOC CHG		DATE	1-27-86		
	UPDATED FORMAT						ENG	GJK 12-1-87		
	E2	02-18-99	PJF		DOC-CHG		ENG	RICHARDS 12-1-87		
	MOVED GERBER CONVERSION NOTE TO LYR NOTES						MFG ENG	RUSSELL 12-1-87	DWG NO.	839-6208-099.
							* SHEET 1 OF 3			

SECTION

REV E2	839-6208-099	REV E2	839-6208-099
DWG NO	839-6208-099	DWG NO	839-6208-099
DATE	1-27-86	DATE	1-27-86
ENGR	GJK 12-1-87	ENGR	GJK 12-1-87
CHK	RICHARDS 12-1-87	CHK	RICHARDS 12-1-87
PRD	RUSSELL 12-1-87	PRD	RUSSELL 12-1-87
ENG		ENG	
* SHEET 2	OF 3	* SHEET 2	OF 3



NOTES: UNLESS OTHERWISE NOTED, RESISTOR VALUE IN OHMS. CAPACITOR VALUE IN UF.

A28 EXTERNAL INTERFACE

EXTERNAL INTLK

EXTERNAL INTLK

REV E2	839-6208-099	REV E2	839-6208-099
DWG NO	839-6208-099	DWG NO	839-6208-099
DATE	1-27-86	DATE	1-27-86
ENGR	GJK 12-1-87	ENGR	GJK 12-1-87
CHK	RICHARDS 12-1-87	CHK	RICHARDS 12-1-87
PRD	RUSSELL 12-1-87	PRD	RUSSELL 12-1-87
ENG		ENG	
* SHEET 2	OF 3	* SHEET 2	OF 3



EXTERNAL INTLK

EXTERNAL INTLK

TBI CHARACTERISTICS

1	EXTERNAL INTERLOCK	A
2	EXTERNAL INTERLOCK	A
3	FORWARD POWER	A
4	REFLECTED POWER	A
5	SUPPLY CURRENT	A
6	SUPPLY VOLTAGE	A
7	RF DRIVE (ESTIMATE)	A
8	BANDPASS FILTER VSWR	A
9	ANTENNA VSWR	A
10	GND	A
11	+15V AT 175MA	GG
12	-15V AT 175MA	GG
13	GND	A
14	GND	A
15	LOWER INDICATOR -L	A
16	HIGH INDICATOR -L	A
17	RAISE INDICATOR -L	A
18	MED INDICATOR -L	A
19	GND	A
20	LOW INDICATOR -L	A
21	PA TURN OFF (+)	B
22	HIGH CONTROL (+)	B
23	PA TURN OFF (-)	B
24	HIGH CONTROL (-)	B
25	LOWER CONTROL (+)	B
26	MED CONTROL (+)	B
27	LOWER CONTROL (-)	B
28	MED CONTROL (-)	B
29	RAISE CONTROL (+)	B
30	LOW CONTROL (+)	B
31	RAISE CONTROL (-)	B
32	LOW CONTROL (-)	B
33	OFF CONTROL (+)	B
34	MANUAL VSWR SELF TEST (+)	B
35	OFF CONTROL (-)	B
36	MANUAL VSWR SELF TEST (-)	B
37	OPEN	B
38	OVERLOAD RESET (+)	B
39	OPEN	B
40	OVERLOAD RESET (-)	B

TB2 REMOTE MIMIC PANEL CONTROL AND STATUS CHARACTERISTICS

1	OSCILLATOR A37 FALT-L	A
2	BUFFER AMP A16 FALT-L	A
3	PREDRIVER FALT-L	A
4	NOT USED	A
5	RF AMP ENVELOPE ERROR-L	A
6	RF COMBINER CROWBAR NOT USED-L	A
7	OUTPUT MONITOR A27 +5V FAULT-L	A
8	OUTPUT MONITOR A27 -5V FAULT-L	A
9	OUTPUT MONITOR A27 LOAD VSWR OCCURRED-L	A
10	OUTPUT MONITOR A27 OUTPUT NETWORK VSWR OCCURRED-L	A
11	ANALOG INPUT A35 +15V FAULT-L	A
12	ANALOG INPUT A35 -15V FAULT-L	A
13	A/D CONVERTER A34 +15V FAULT-L	A
14	A/D CONVERTER A34 -15V FAULT-L	A
15	A/D CONVERTER A34 +5V FAULT-L	A
16	A/D CONVERTER A34 CONVERSION ERROR	A
17	DC REGULATOR A30 +5V FAULT-L	A
18	DC REGULATOR A30 B-V FAULT-L	A
19	GND	A
20	GND	A
21	MODULATION ENCODER CABLE INTERLOCK-L	A
22	EXTERNAL INTERLOCK-L	A
23	DOOR INTERLOCK-L	A
24	SUPPLY VOLTAGE FAULT-L	A
25	SUPPLY CURRENT OVERLOAD-L	A
26	UNDER-DRIVE FAULT-L	A
27	OVER-DRIVE FAULT-L	A
28	AIR OVERLOAD-L	A
29	HIGH VOLTAGE SUPPLY FAILURE-L	A
30	CURRENTLY UNDER LOCAL CONTROL-L	A
31	CURRENTLY UNDER REMOTE CONTROL-L	A
32	VSWR SELF TEST PASS/FAIL	A
33	TYPE 3 FAULT-L	A
34	OPEN	A
35	MONITOR SIGNAL +22VDC	C
36	MONITOR SIGNAL -22VDC	C
37	MONITOR SIGNAL +8VDC	D
38	MONITOR SIGNAL -8VDC	D
39	GND	D
40	GND	D

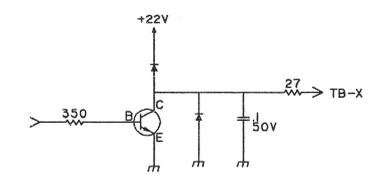
TB 3 AUDIO INPUT CHARACTERISTICS

1	CHASSIS GND	A
2	AUDIO INPUT (+)	A
3	AUDIO INPUT (-)	A
4	AC COUPLED TO CHASSIS GND	A



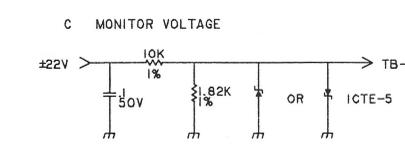
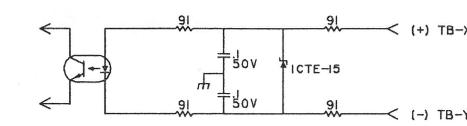
CHARACTERISTIC KEY

A THIS IS AN ELECTRONIC SWITCH, STATUS OUTPUT FROM THE TRANSMITTER. WHEN THE TRANSMITTER IS FULLY TURNED ON (I.E. SATURATED) THE ACTION DESCRIBED BY THE SIGNAL NAME IS HAPPENING.

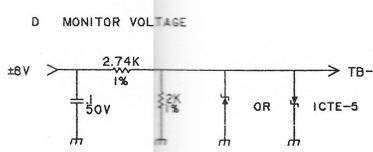


LS TTL FANOUT 12
 TRANSISTOR BREAKDOWN V_{CEO} = 40V
 TRANSISTOR CURRENT I_{OL} MAX = 100MADC
 TRANSISTOR POWER DISSIPATION P_D MAX = 300MW

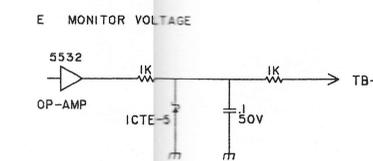
B THIS IS AN EXTENDED CONTROL INPUT TO THE TRANSMITTER. IT IS AN OPTICALLY ISOLATED INPUT TO INITIATE THE DESCRIBED ACTION. A MOMENTARY (I.E. > 100MSEC) VOLTAGE (+,-) MUST BE APPLIED ACROSS THE INPUT TERMINALS. THE VOLTAGE SOURCE MUST SUPPLY 15 VDC AT 40MADC. DO NOT EXCEED 28VDC AT 77MADC. TO PREVENT THE DESCRIBED ACTION FROM OCCURRING, THE INPUT VOLTAGE (+,-) MUST BE LESS THAN 1VDC BUT NOT LESS THAN -1VDC.



TYPICAL:
 V OPEN CIRCUIT = ±3.4VDC
 R THEVININ = 1.54K
 REFERENCED TO GND



TYPICAL:
 V OPEN CIRCUIT = ±3.4VDC
 R THEVININ = 1.16K
 REFERENCED TO GND



1. IN THE CASE OF THE FORWARD POWER OUTPUT, THE SIGNAL IS HELD HIGH BY AN INTEGRATING CIRCUIT FOR TWO SECONDS AFTER THE TRANSMITTER OUTPUT POWER HAS BEEN REDUCED. THIS IS TO ALLOW FOR PROPER OPERATION WHEN USED WITH A HARRIS TRANSMITTER COMBINER.
2. IN THE CASE OF THE RF DRIVE (ESTIMATE) OUTPUT, A TERMINAL VOLTAGE OF 2.7VDC CORRESPONDS TO A ESTIMATED 25VPP DRIVE LEVEL.
3. IN THE CASE OF THE BANDPASS FILTER OR THE ANTENNA VSWR, THIS IS A RELATIVE SIGNAL. THE TERMINAL VOLTAGE WILL INCREASE AS THE APPROPRIATE VSWR INCREASES.

F EXTERNAL INTERLOCK
 A SHORT CIRCUIT IS REQUIRED BETWEEN TBI-1 AND TBI-2 TO OPERATE A 24VAC-2VA RELAY(K3). FAILURE OF THIS CIRCUIT IS A FAULT WHICH WILL INHIBIT TRANSMITTER OPERATION.

G POWER SUPPLY OUTPUTS
 +15VDC AT TBI-11 AND -15VDC AT TBI-12 ARE PROVIDED FOR EXTERNAL USE. EACH VOLTAGE IS REGULATED AND WILL DELIVER UP TO 175MADC. LOADING ABOVE 175MA WILL DECREASE THE OUTPUT VOLTAGE BY A PROPORTIONATE AMOUNT.

NOTES

REV	LTR	ZONE	DATE	DFTM	ENG	ECO	NBR
	E1		JUNE 13, 1998	SEC			DOC CHG
	UPDATED FORMAT						
	E2		02-19-99	PJF			DOC-CHG
	MOVED GERBER CONVERSION NOTE TO LYR NOTES						

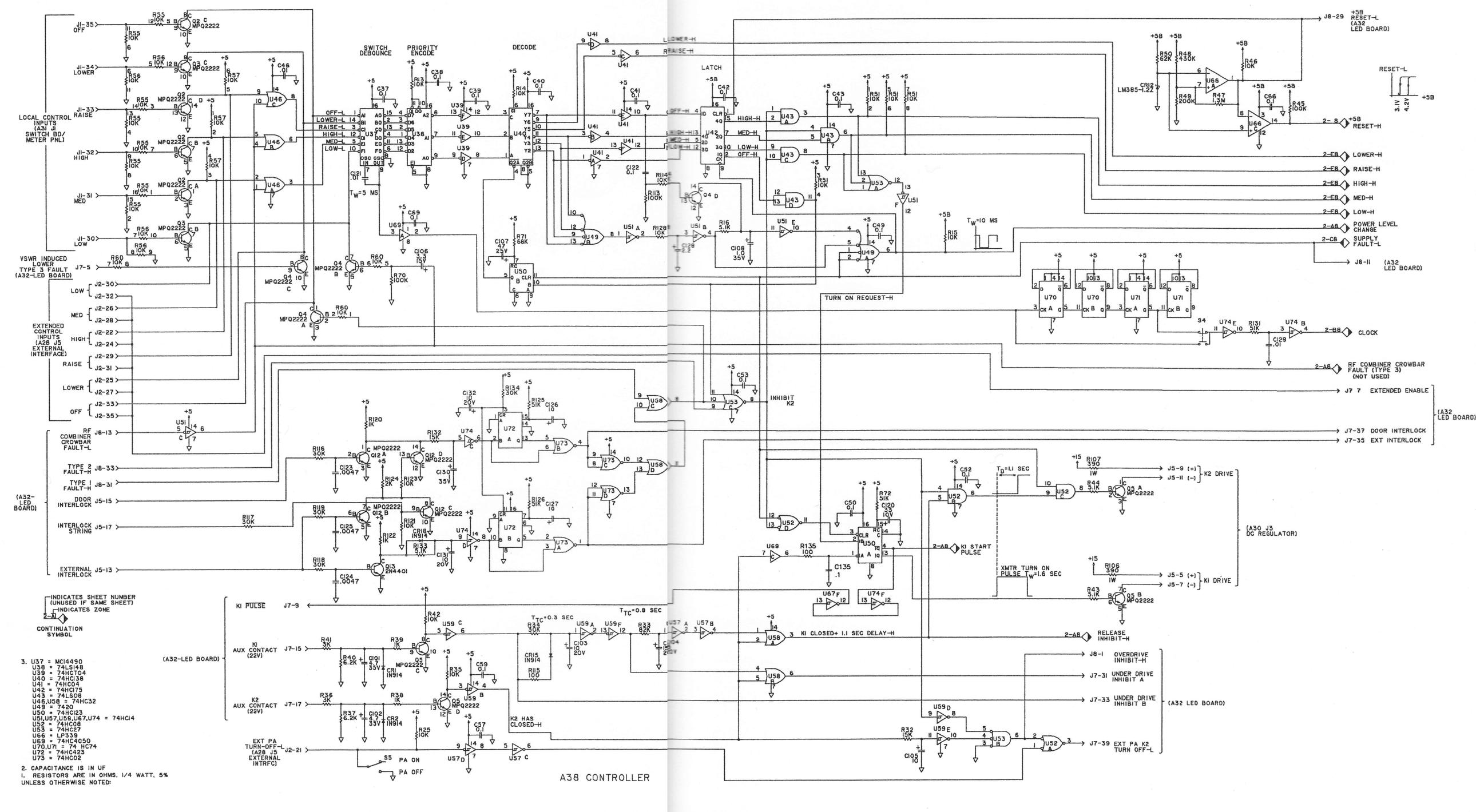
HARRIS

HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY	A BUSS
DATE	1-27-86
ENG CHK	GJK 12-1-87
PRDJ ENG	RICHARDS 12-1-87
MFG ENG	RUSSELL 12-1-87
* SHEET	3 OF 3

TITLE	SCHEM, EXTERNAL INTERFACE
DWG NO.	839-6208-099
REV	E2



INDICATES SHEET NUMBER (UNUSED IF SAME SHEET)
 INDICATES ZONE
 CONTINUATION SYMBOL

3. U37 = MC14490
 U38 = 74LS148
 U39 = 74HC04
 U40 = 74HC04
 U41 = 74HC04
 U42 = 74HC04
 U43 = 74HC04
 U44 = 74HC04
 U45 = 74HC04
 U46 = 74HC04
 U47 = 74HC04
 U48 = 74HC04
 U49 = 74HC04
 U50 = 74HC04
 U51 = 74HC04
 U52 = 74HC04
 U53 = 74HC04
 U54 = 74HC04
 U55 = 74HC04
 U56 = 74HC04
 U57 = 74HC04
 U58 = 74HC04
 U59 = 74HC04
 U60 = 74HC04
 U61 = 74HC04
 U62 = 74HC04
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 U66 = 74HC04
 U67 = 74HC04
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 U87 = 74HC04
 U88 = 74HC04
 U89 = 74HC04
 U90 = 74HC04
 U91 = 74HC04
 U92 = 74HC04
 U93 = 74HC04
 U94 = 74HC04
 U95 = 74HC04
 U96 = 74HC04
 U97 = 74HC04
 U98 = 74HC04
 U99 = 74HC04
 U100 = 74HC04

2. CAPACITANCE IS IN pF
 1. RESISTORS ARE IN OHMS, 1/4 WATT, 5% UNLESS OTHERWISE NOTED

REV	DATE	DFM	ENG	ECD NBR
R	03-29-99	DFD	DFD	42239B
REVISE SHEET 3				
S	7-26-99	DFD	DFD	43008
REVISED SHEET 3				

LTR	ZONE	DATE	DFM	ENG	ECD NBR
R		03-29-99	DFD	DFD	42239B
REVISE SHEET 3					
S		7-26-99	DFD	DFD	43008
REVISED SHEET 3					

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 BROADCAST COMMUNICATIONS
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 QUINCY, ILLINOIS 62305

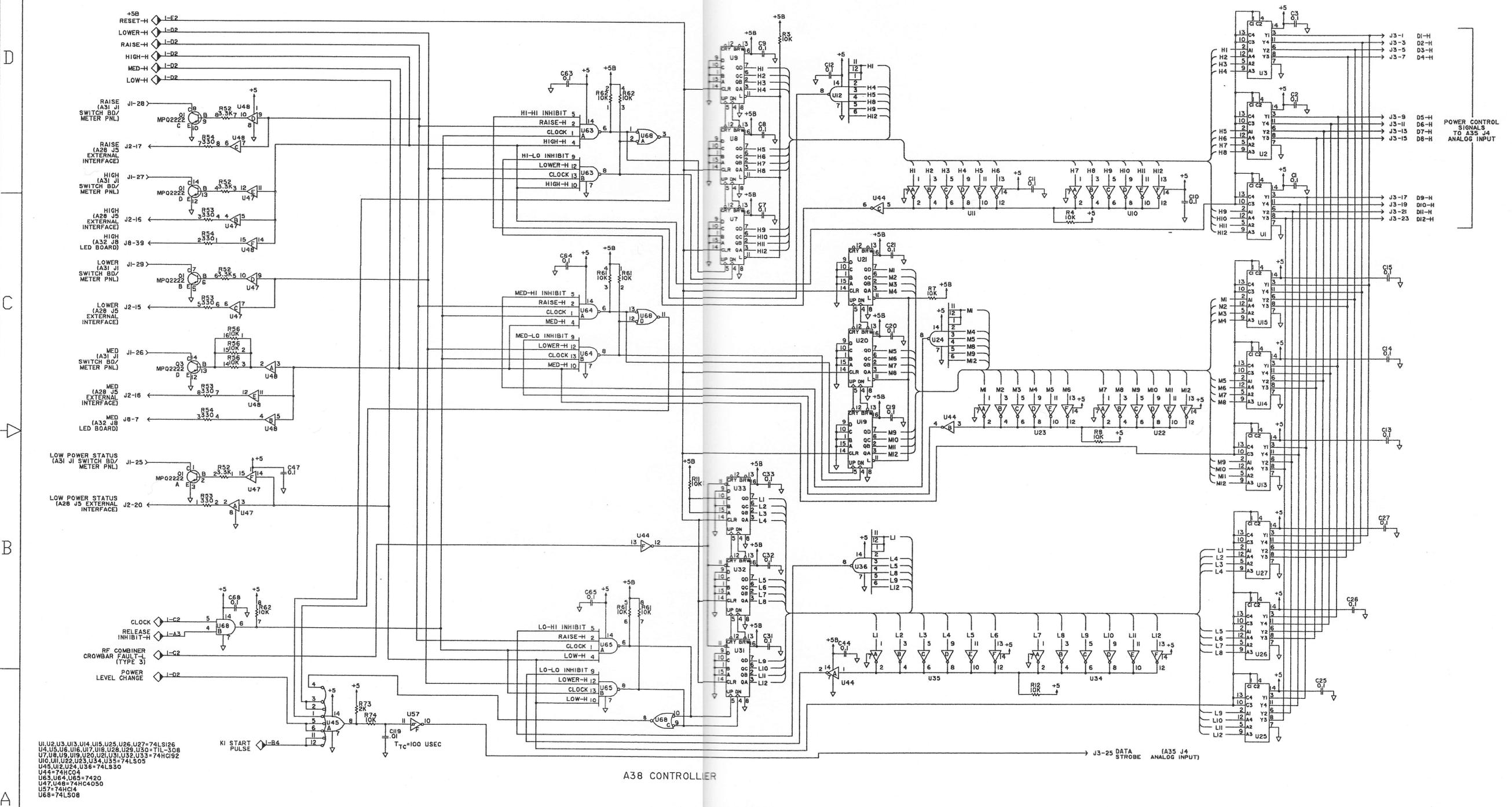
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DATE	BY	CHK	ENG	FRD	ENG	DATE	BY	CHK	ENG	FRD	ENG
2-12-86	D GLOVER					12-1-87	GJK				
12-1-87						12-1-87	RICHARDS				
12-1-87						12-1-87	RUSSELL				
* SHEET 1 OF 3											

TITLE
 SCHEM, CONTROLLER

DWG NO. 839-6208-100

REV S



NOTES

U1, U2, U3, U13, U14, U15, U25, U26, U27, 74LS16
U4, U5, U6, U16, U17, U18, U28, U30, 74LS08
U7, U8, U9, U19, U20, U21, U31, U32, U33, 74HC192
U10, U11, U22, U23, U34, U35, 74LS05
U45, U2, U24, U36, 74LS30
U44, 74HC04
U63, U64, U65, 7420
U47, U48, 74HC050
U57, 74HC14
U68, 74LS08

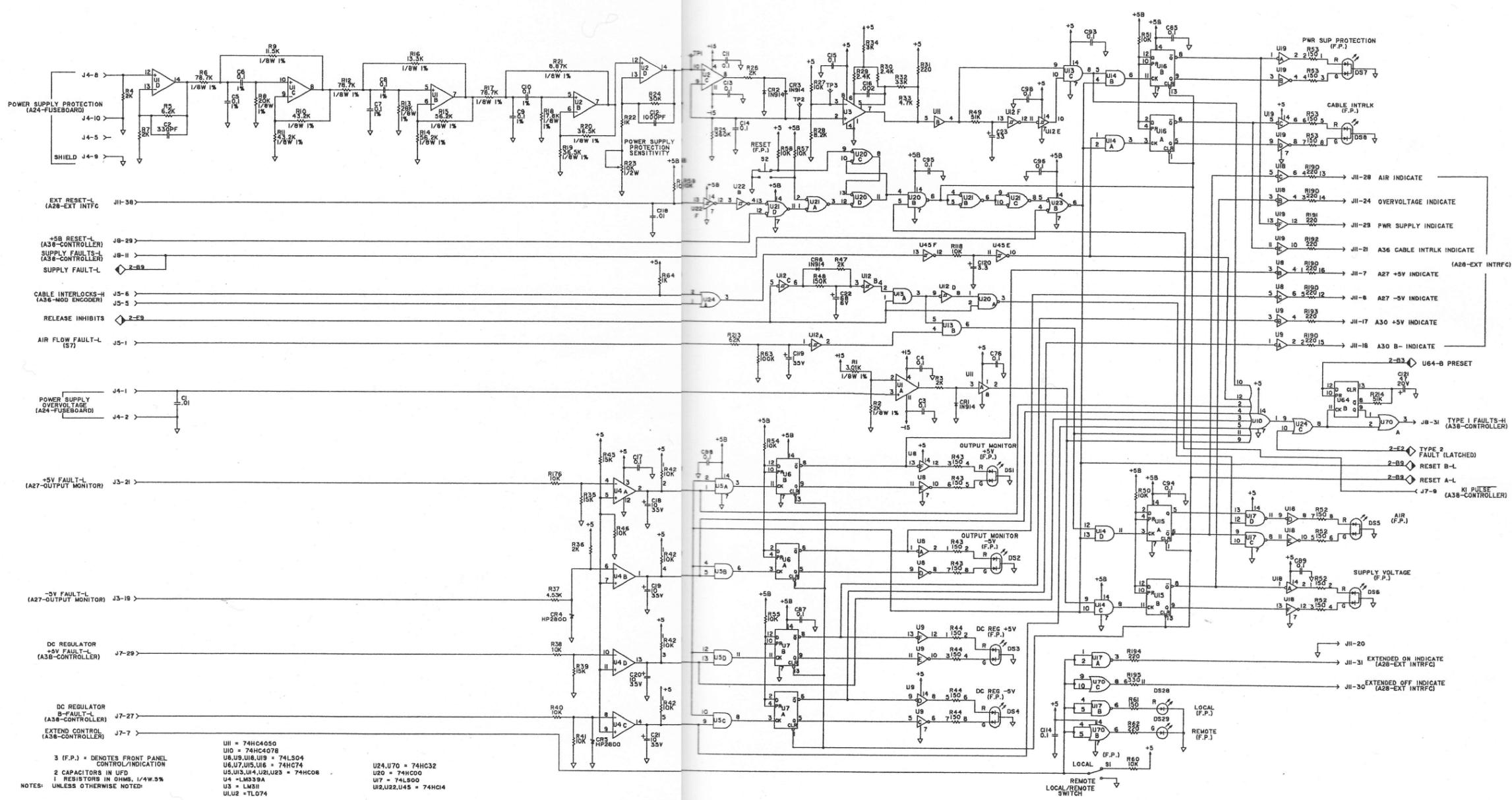
REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
	R		03-29-99	DFD	DFD	42239B
	REVISE SHEET 3					
	S		7-26-99	DFD	DFD	43008
	REVISED SHEET 3					

HARRIS

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DRAWN BY	D GLOVER	TITLE	SCHEM, CONTROLLER
DATE	2-12-87	ENG CHK	GJK 12-1-87
PROJ ENG	RICHARDS 12-1-87	MFG ENG	RUSSELL 12-1-87
SHEET	2 OF 3	DWG NO.	839-6208-100
		REV	S



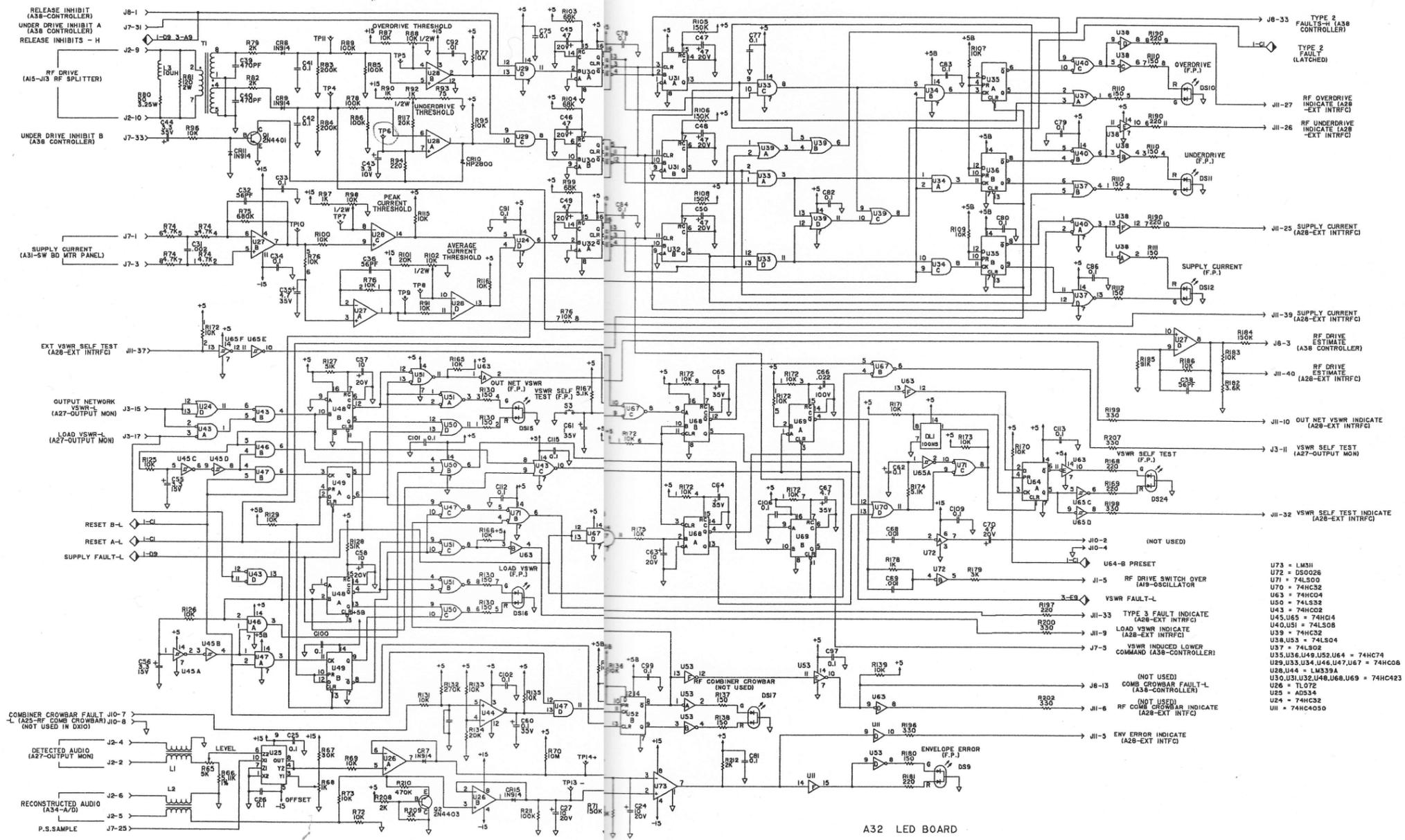
U11 = 74HC4050
 U10 = 74HC4078
 U6, U7, U15, U16 = 74LS04
 U5, U13, U14, U21, U23 = 74HC00
 U4 = LM339A
 U3 = LM311
 U1, U2 = TL074
 U24, U70 = 74HC32
 U20 = 74HC00
 U7 = 74LS00
 U8, U22, U45 = 74HC14

3 (F.P.) = DENOTES FRONT PANEL CONTROL/INDICATION
 2 CAPACITORS IN UFD
 1 RESISTORS IN DIMS. 1/4W. 5%
 NOTES: UNLESS OTHERWISE NOTED!

NOTE:
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 UPDATED AutoCAD TEXT IS ADDED IN YELLOW

NOTES	LTR	ZONE	DATE	DFTM	ENG	ECO NBR	HARRIS	HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY	R BEEVER	TITLE	SCHEM, LED BOARD	
	R		03-27-03	RLB	RLB	49136			DATE	4-29-86			
	REVISE R1 TO 3.01K								ENG CHK	GJK 12-1-87			
	P		DEC 11, 1999	SEC	SEC	45494			PROJ ENG	NR 12-1-87			
	CONVERTED TO AutoCAD, REVISED R37								MFG ENG	MR 12-1-87			
									SHEET 1 OF 4	DWG NO. 839-6208-111	REV R		

Set up fabric
TP6: 3.706V



A32 LED BOARD

- U73 = LM311
- U72 = DS0026
- U71 = 74LS00
- U70 = 74HC32
- U63 = 74HC04
- U50 = 74LS32
- U43 = 74HC02
- U45, U65 = 74HC14
- U40, U51 = 74LS08
- U39 = 74HC32
- U38, U53 = 74LS04
- U37 = 74LS02
- U35, U36, U49, U52, U64 = 74HC74
- U29, U33, U34, U46, U47, U67 = 74HC08
- U28, U44 = LM339A
- U50, U51, U52, U48, U68, U69 = 74HC423
- U26 = TL072
- U25 = AD534
- U24 = 74HC32
- U11 = 74HC4050

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NOTES	LTR	ZONE	DATE	DFTM	ENG	ECO NBR	HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY	R BEEVER	TITLE	SCHEM, LED BOARD	
	R		03-27-03	RLB	RLB	49136		DATE	4-29-86			
	REVISE SHEET 1						45494	THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.	ENG	GJK 12-1-87		
	P		DEC 11, 1999	SEC	SEC	CONVERTED TO AutoCAD, UPDATED			FORMAT	PRD	NR 12-1-87	
								MFG	MR 12-1-87	DWG NO.	839-6208-111	
								C	SHEET 2 OF 4	REV	R	

D

D

C

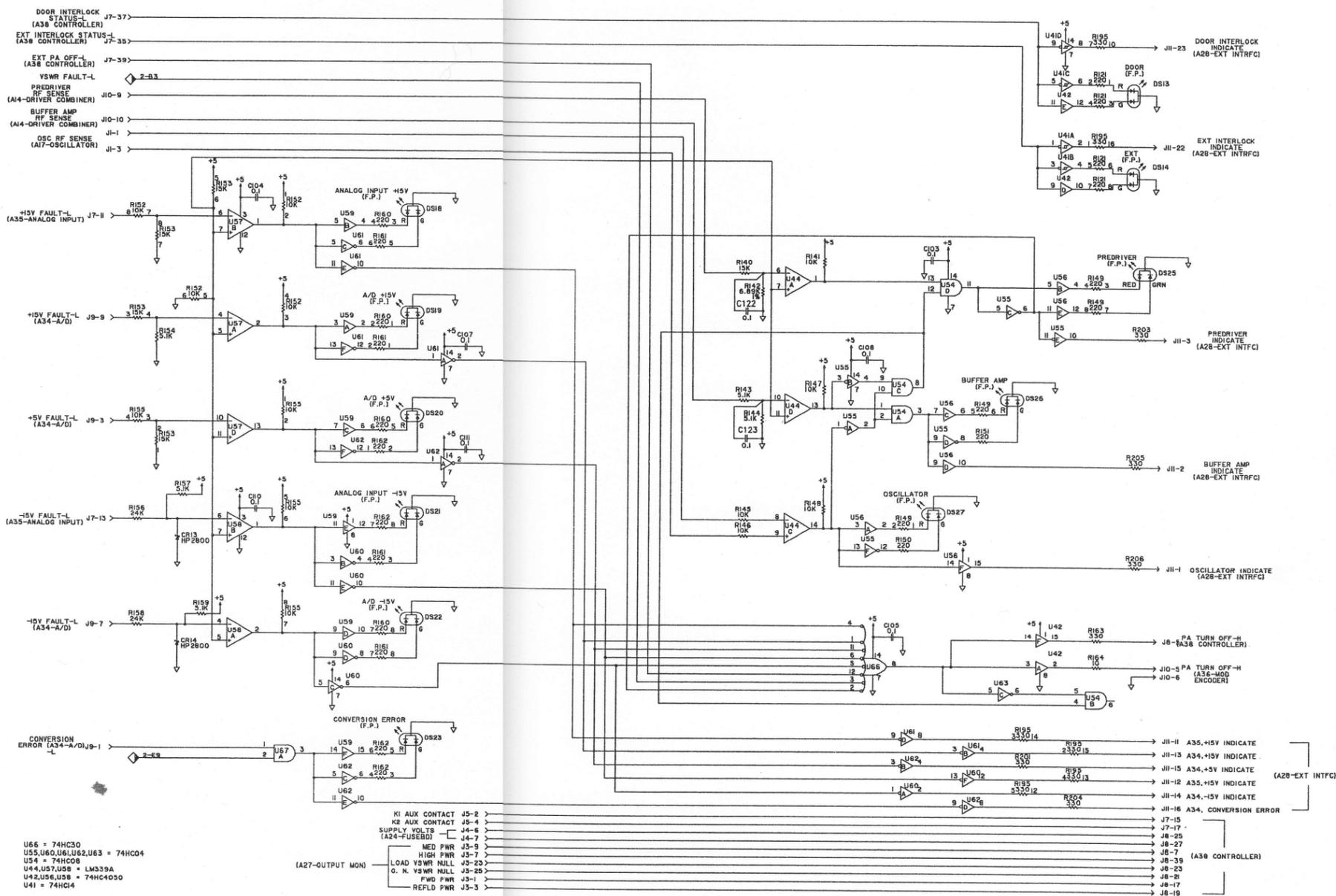
C

B

B

A

A



U66 = 74HC30
 U55, U60, U61, U62, U63 = 74HC04
 U54 = 74HC09
 U44, U57, U58 = LM339A
 U42, U56, U58 = 74HC4050
 U41 = 74HC14

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NOTES

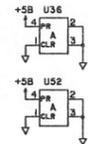
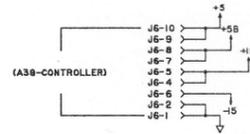
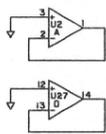
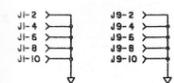
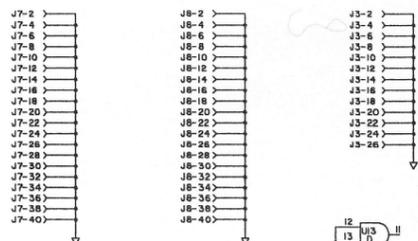
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	R		03-27-03	RLB	RLB	49135
REVISE SHEET 1						
	P		DEC 11, 1999	SEC	SEC	45494
CONVERTED TO AutoCAD, UPDATED FORMAT						



HARRIS CORPORATION
 BROADCAST COMMUNICATIONS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	R BEEVER
DATE	4-29-86
ENG CHK	GJK 12-1-87
PROJ	NR 12-1-87
MFG ENG	MR 12-1-87
C	SHEET 3 OF 4

TITLE	SCHEM, LED BOARD
DWG NO.	839-6208-111
REV	R



A32 LED BOARD

NOTE:
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UPDATED AutoCAD TEXT IS ADDED IN YELLOW

NOTES

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
R			03-27-03	RLB	RLB	49136
REVISE SHEET 1						
P			DEC 11, 1999	SEC	SEC	45494
CONVERTED TO AutoCAD, UPDATED FFORMAT						



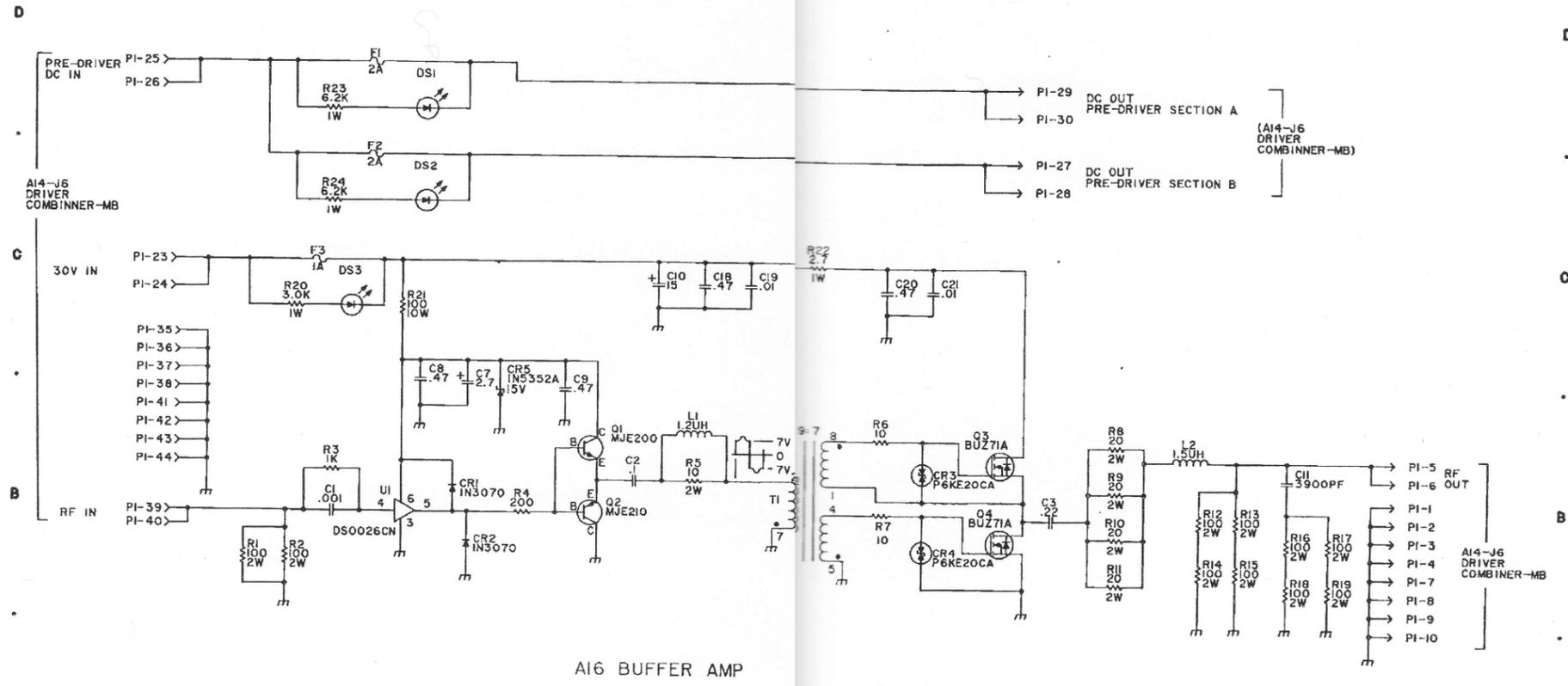
HARRIS CORPORATION
BROADCAST COMMUNICATIONS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY	R BEEVER
DATE	4-29-86
ENG CHK	GJK 12-1-87
PRD J	NR 12-1-87
ENG	NR 12-1-87
MFG ENG	MR 12-1-87
C	SHEET 4 OF 4

TITLE	SCHEM, LED BOARD
DWG NO.	839-6208-111
REV	R

REFERENCE DOCUMENTS	
PC. BOARD	NET LIST
843 4038 101	

		DWG. NO. 839 6208 225			
LTR	DATE	REVISION	DFTM	ENG	ECN
A	7-21 87	REVISE	DFG		
B	10-30 87	REVISED FOR RELEASE	RWS		

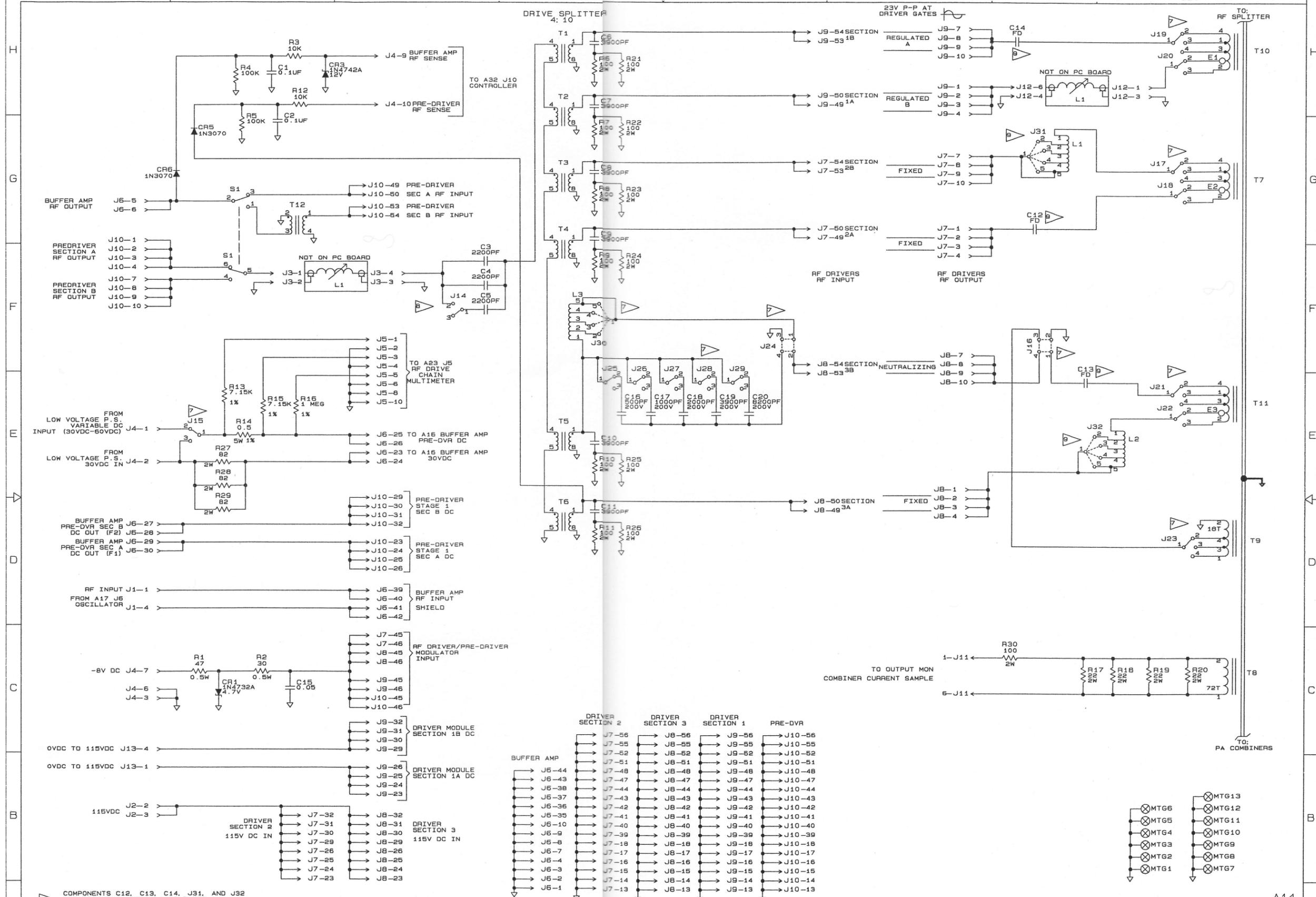


A16 BUFFER AMP

CAPACITORS IN MICROFARADS
RESISTORS IN OHMS .25W
UNLESS OTHERWISE NOTED

SCH.ES.D96208.225 .01

ALL DIM. IN INCHES UNLESS NOTED	
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DR. BY R SIMON	TITLE
CHKD. SIMON 10-87	SCHEM, BUFFER AMP
M.E. CLK 12-1-87	
E.E.	
PROJ. ENG. <i>ABE 12/1/87</i>	REF DWG.
MFG <i>MR 12/1/87</i>	SCALE
NEXT ASSY 992 6969 001	MAT'L
USED ON	FIN. DWG. NO. 839 6208 225
	SHEET 1 OF 1



COMPONENTS C12, C13, C14, J31, AND J32 ARE FREQUENCY DETERMINED PARTS

JUMPER J14-1 TO J14-3 FOR 600KHZ AND ABOVE
JUMPER J14-1 TO J14-2 FOR 600KHZ AND BELOW

REFER TO THE TECHNICAL MANUAL FOR SELECTION CRITERIA FOR J15 THROUGH J30

4. INDUCTANCE IN UH.
3. CAPACITANCE IN UF.
2. RESISTANCE IN OHMS.
1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE CONTINUATION SYMBOL

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
	F		11-29-99	DFD	DFD	45268
	DELETE CR4					
	E		11/10/87	MAB	MAB	38808
	ADD T7					

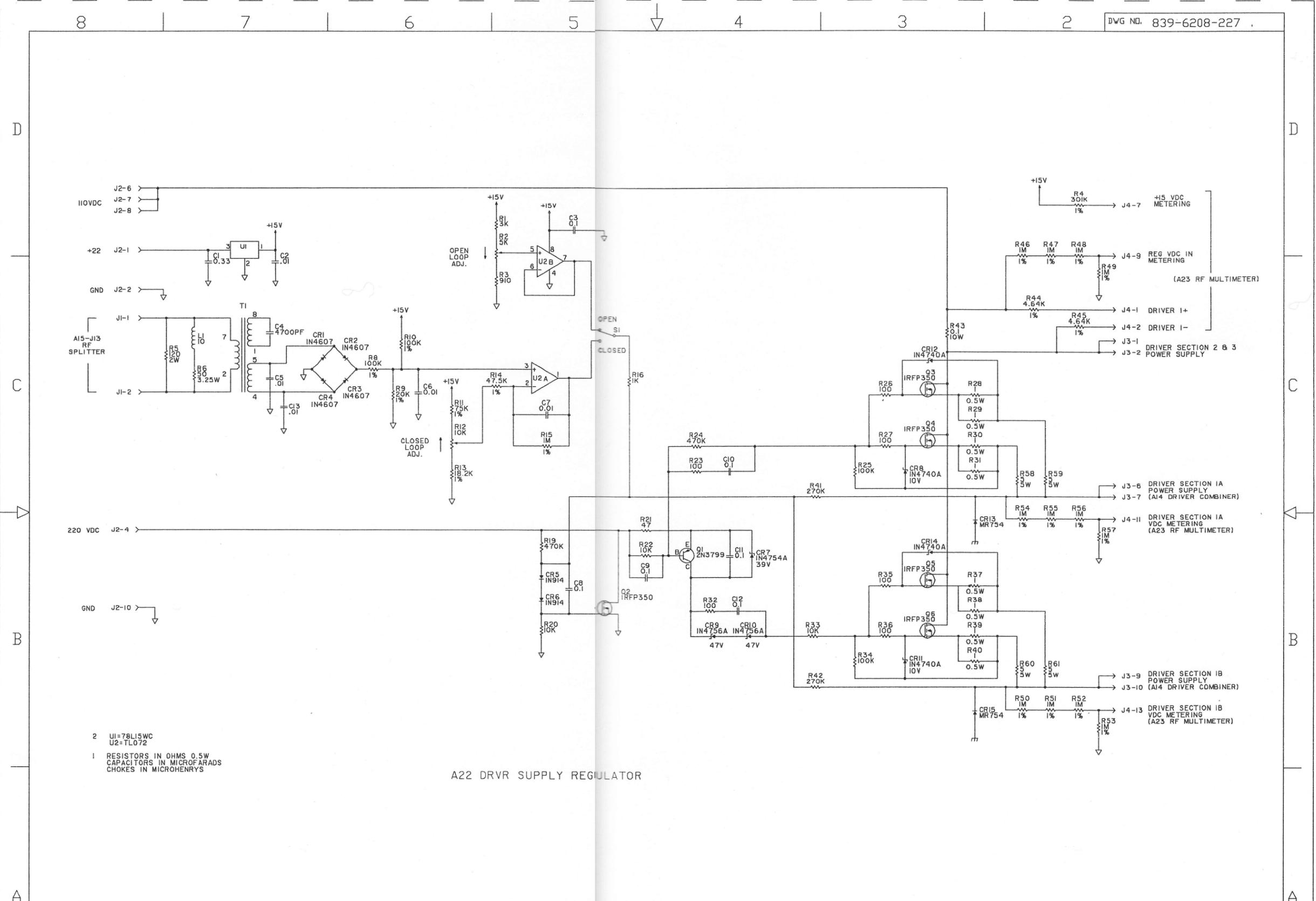
HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY RLB
DATE 2-4-87
ENG CHK GJK 12-1-87
PROJ ENG NGR 12-1-87
MFG ENG MAR 12/1/87
SHEET 1 OF 1

TITLE
SCHEM. DVR COMBINER

DWG NO. 839-6208-226
REV F

A14



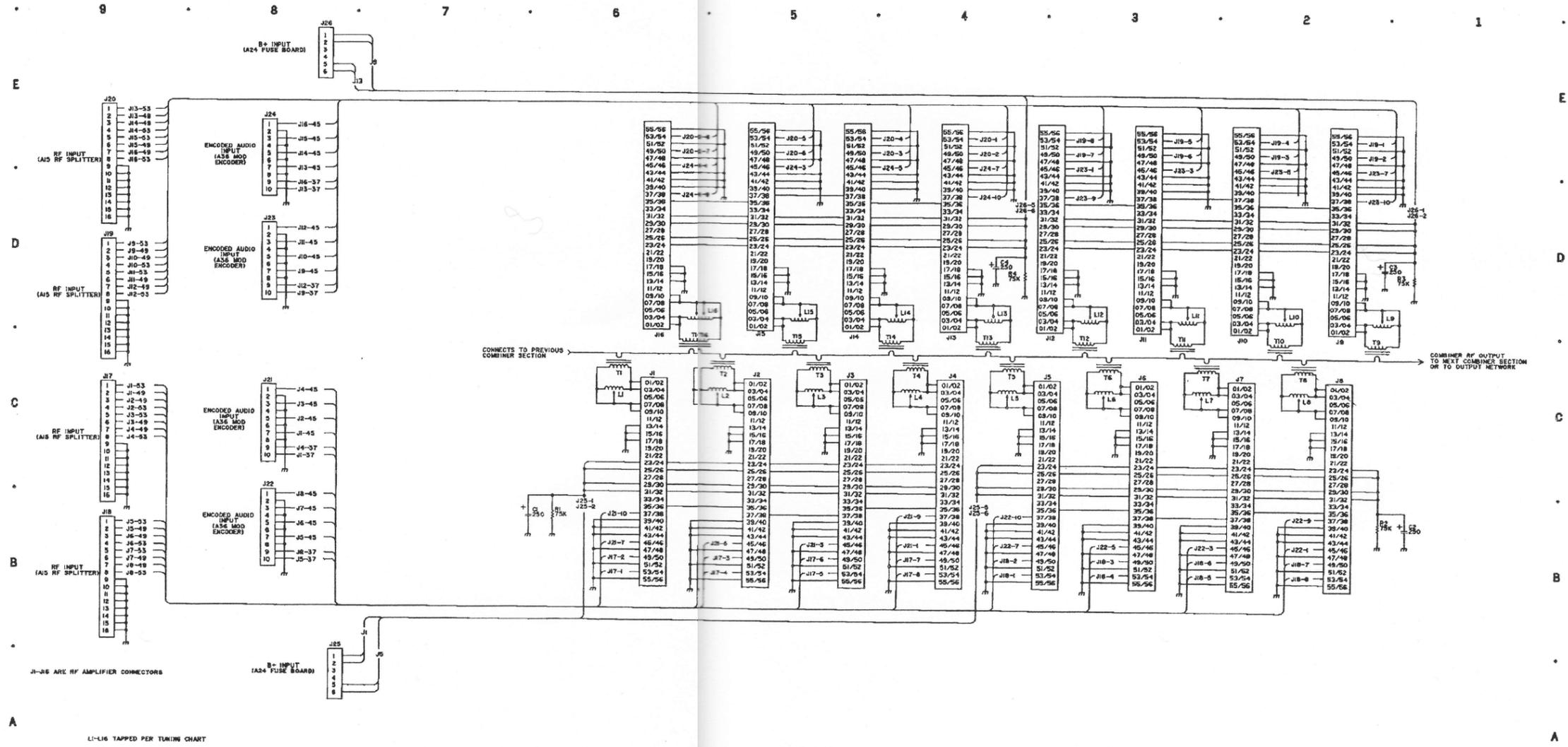
2 U1=78L15WC
U2=TL072
1 RESISTORS IN OHMS 0.5W
CAPACITORS IN MICROFARADS
CHOKES IN MICROHENRYS

A22 DRVR SUPPLY REGULATOR

NOTES	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR	HARRIS	HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DATE	ROD SIMON	TITLE		
	D		8-14-89	DFG		62169	NOV 1987			SCHEM, DRVR SUPPLY REGULATOR				
	REV C5 WIRING													
	D1		MAY 27, 2004	SEC	SEC	DOC CHG					RUSSELL 12-1-87	DWG NO. 839-6208-227	REV D1	
CONVERTED GERBER FILE TO AutoCAD								THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.		SHEET 1 OF 1				

REFERENCE DOCUMENTS	
PC. BOARD	NET LIST

LTR		DATE	REVISION	DFTM	ENG	ECN
C	1-28	88		RLB		34754
REVISE NOTE						



CAD-CAM FILED SCH.ES.J96208.229. .01

HARRIS

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DR. BY R SIMON TITLE

CHKD. SCHEM.

M.E. COMBINER MB MAIN

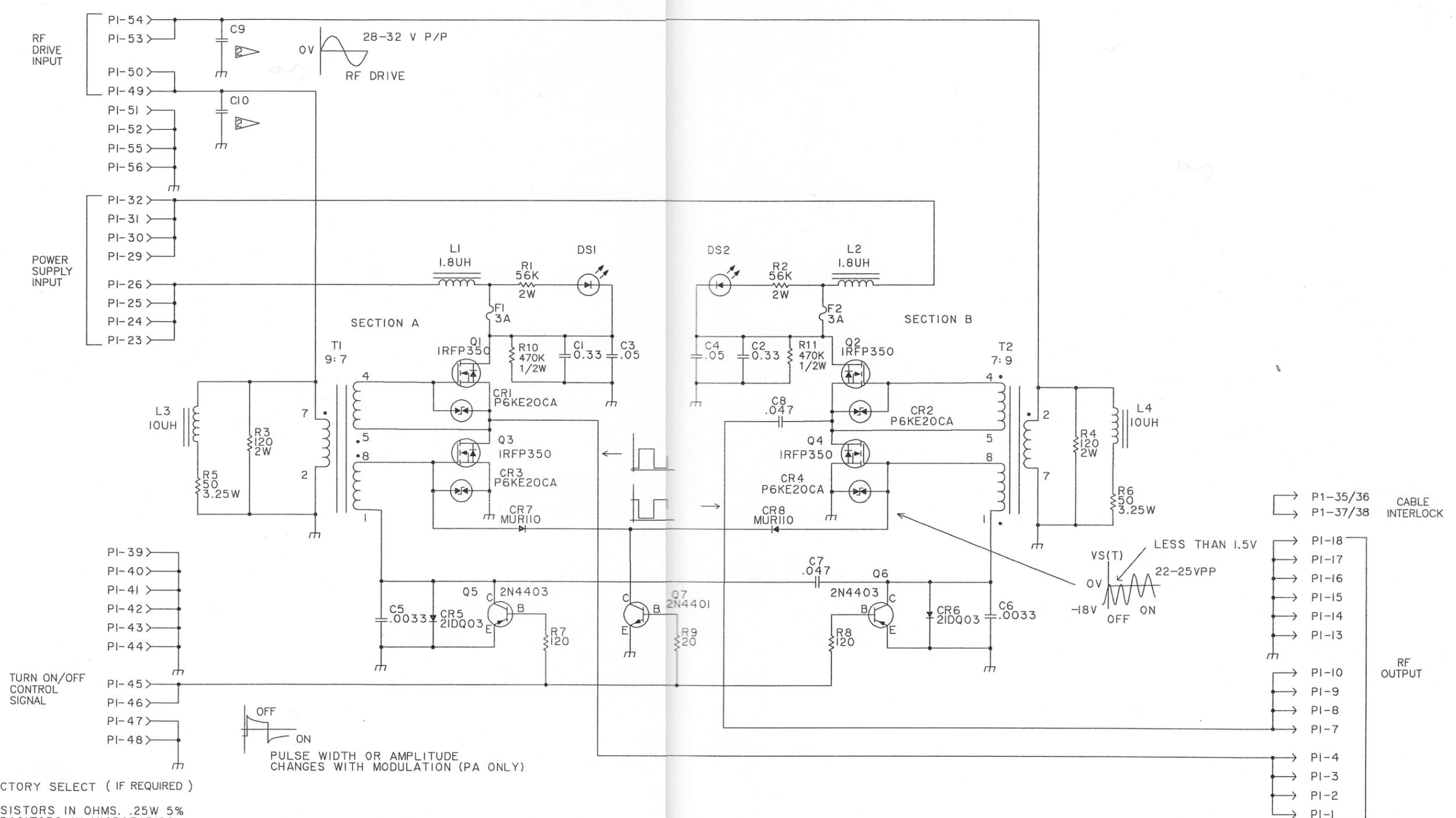
E.E.

PROJ. ENG.

MFG. REF. DWG. SCALE

NEXT ASSY. MAT'L. FIN. DWG. NO. 839 6208

USED ON SHEET 1 OF 1 229



- NOTES
- 1 FACTORY SELECT (IF REQUIRED)
 - 1 RESISTORS IN OHMS. .25W 5% CAPACITORS IN MICROFARIDS UNLESS OTHERWISE NOTED:

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
	F	.	FEB 2, 1999	SEC	.	42614
	CONVERTED TO AutoCAD FORMAT, CORRECTED WAVE FORM TEXT					



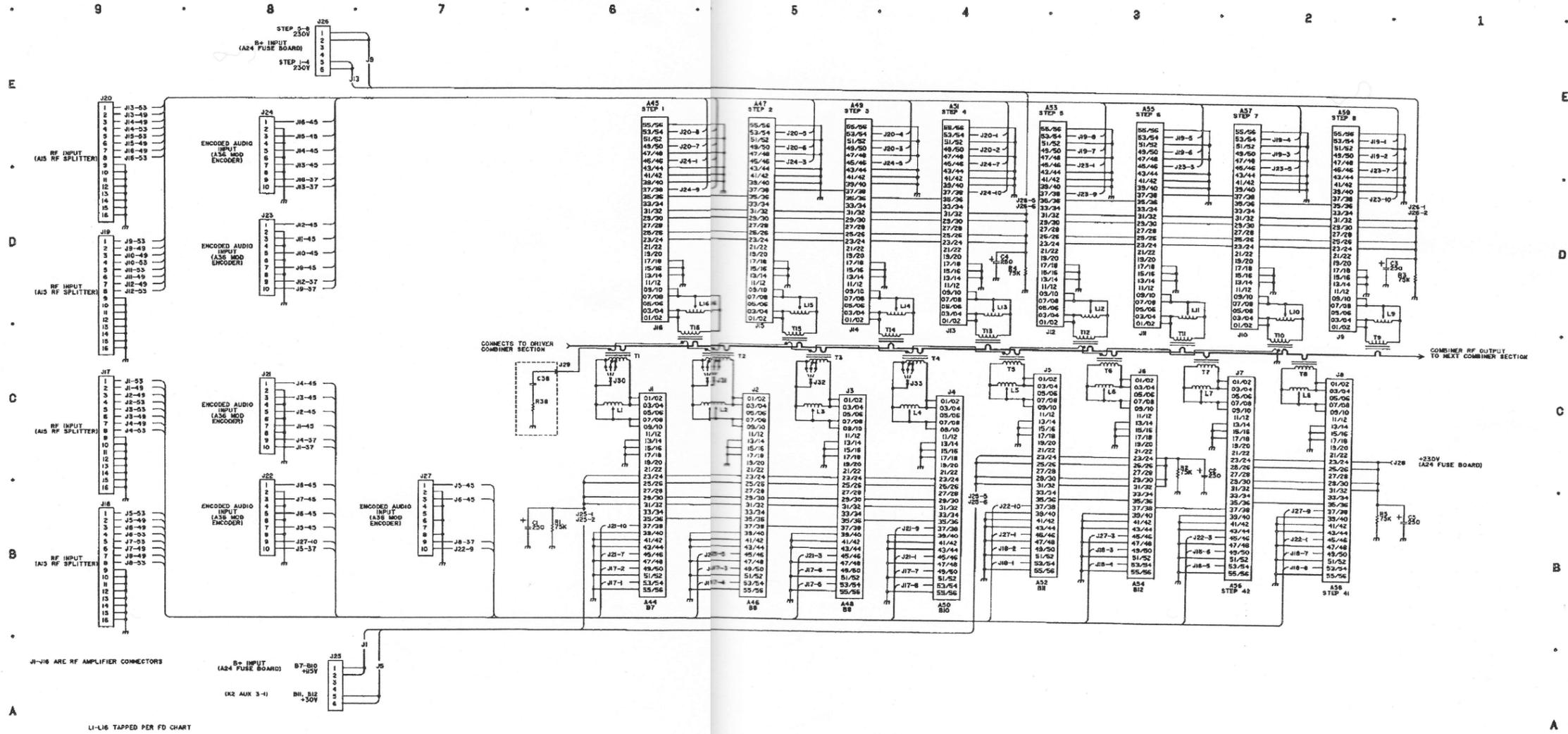
HARRIS CORPORATION
 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY	R SIMON	TITLE	SCHEM, RF AMPLIFIER
DATE	NOV 1987		
ENG CHK	GJK 12-1-87		
PROJ ENG	RICHARDS 12/87		
MFG ENG	RUSSELL 12/87	DWG NO.	839-6208-246.
* SHEET	1 OF 1	REV	F

REFERENCE DOCUMENTS	
PC. BOARD	NET LIST

LTR		DATE	REVISION	DFTM	ENG	ECH
M1		1-28 88	MOVE PHASING DOT ON T6	RLB	2	34754



CAD-CAM FILED SCH.ES.J96208.268. .01

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DR. BY R SIMON	TITLE
CHKD.	SCHEM,
M.E.	COMBINER MB, BINARY
E.E.	
PROJ. ENG.	REF. DWG.
MFG.	SCALE
NEXT ASSY.	MAT'L.
USED ON	FIN.
	DWG. NO.
	839 6208
	SHEET 1 of 1
	268

BOARD	FUNCTION	COMPONENT	REF. PARAG.	APPLICABLE NOTES	525 TO 630 KHZ	631 TO 700KHZ	701 TO 790 KHZ	791 TO 820 KHZ	821 TO 900 KHZ	901 TO 1000 KHZ	1001 TO 1100 KHZ	1101 TO 1200 KHZ	1201 TO 1250 KHZ	1251 TO 1300 KHZ	1301 TO 1400 KHZ	1401 TO 1500 KHZ	1501 TO 1600 KHZ	1601 TO 1720 KHZ	
MAIN CHASSIS	PREDR. TUNE	L1	5-167	SEE NOTES 1 & 2	7 T.	12 T.	11 T.	15 T.	18 T.	21 T.	24 T.	26 T.	27 T.	27 T.	28 T.	29 T.	29 T.	30 T.	
	PREDR. AMPL.	R1	5-168	SEE NOTE 3	58V	57V	55V	52V	51V	49V	47V	45V	43V	42V	40V	37V	36V	33V	
	DRIVER TUNE	L2	5-169	SEE NOTES 1 & 2	9 T.	13 T.	18 T.	8 T.	13 T.	19 T.	13 T.	19 T.	23 T.	27 T.	31 T.	18 T.	23 T.	28 T.	
OUTPUT NETWORK	SEE 8171280101 AND 8171280103 FOR DETAILS. CONTACT HARRIS FIELD SERVICE FOR COPY.																		
OUTPUT MON. A27	ANT. NULL PHASE	S6	5-190	SEE NOTE 1	3, 4 DN	1, 4 DN	2, 3 DN	4 DN	3 DN	3 DN	2 DN	2 DN	2 DN	2 DN	1 DN	1 DN	1 DN	1 DN	
	ANT. NULL RESON.	S9	5-189		3 DN	ALL OFF						1 DN							
	BPF NULL PHASE	S7	5-193	SEE NOTE 1	1 DN	2 DN	1, 2 DN 1 AT MAX L	3 DN	3 DN	3 DN	2, 3 DN 2 AT MAX L	2, 3 DN 2 AT MAX L	4 DN	4 DN	4 DN	4 DN	3, 4 DN 3 AT MAX L	3, 4 DN 3 AT MAX L	
	BPF NULL AMP.	S2	5-193		ALL OFF			2 DN							1 DN				
	BPF NULL RESON.	S1	5-192		3 DN	ALL OFF						1 DN							
	PWR.MTR. BAL.	P3	H-61		1-2			1-3											
	ANT.VSWR TRIP	R15	H-41	SEE NOTE 5	2.25V														
	BPF VSWR TRIP	R9	H-41	SEE NOTE 5	2.30V														
	ANALOG A35	OFFSET	R84	5-234	SEE NOTE 1	2.725V													
		GAIN	R85	5-233	SEE NOTE 5	MAX													
	DITHER LEVEL	R43	J-75	SEE NOTE 1	2T. FROM MINIMUM														

- 8. ACTIVE TURNS

- 5. PARAMETER IS NOT FREQUENCY DEPENDENT

- 3. READ PREDRIVER V. ON RF MULTIMETER
- 2. TURNS COUNTED FROM CCW STOP
- 1. THE VALUE LISTED IS A STARTING POINT ONLY.
THE PARAMETER MUST BE ADJUSTED PER THE REF. PARAG.

NOTES	LTR	ZONE	DATE	DFTM	ENG	ECO NBR	HARRIS	HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY	GLOVER	TITLE	TUNING CHART, DX-10	
	F	.	DEC 10, 2004	SEC	SEC	50683			DATE	FEB 1988			
	REVISED SHEET 3								ENG CHK	GJK 3-88			
	G	.	MAR 08, 2005	SEC	SEC	50985			PRJ ENG	NR 3-88			
REVISED SHEET 3							THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.		MFG ENG	-	DWG NO.	839-6208-285.	
									C	SHEET 1 OF 3	REV G		

BOARD	FUNCTION	COMPONENT	REF. PARAG.	APPLICABLE NOTES	525 TO 630 KHZ	631 TO 700KHZ	701 TO 790 KHZ	791 TO 820 KHZ	821 TO 900 KHZ	901 TO 1000 KHZ	1001 TO 1100 KHZ	1101 TO 1200 KHZ	1201 TO 1250 KHZ	1251 TO 1300 KHZ	1301 TO 1400 KHZ	1401 TO 1500 KHZ	1501 TO 1600 KHZ	1601 TO 1720 KHZ
A/D A34	QUAD. PHASING	P11	K-54	SEE NOTE 2	1-2 & 3-4 (IN)			800 KHZ (OUT) 1-3 2-4										
	SAMPLE PHASING	S1	5-197	SEE NOTE 1	B ON													
	SAMPLE FREQ	P10	K-58		1-3				1-4						1-2			
DC REG. A30	CLIPPER	R39	5-236	SEE NOTE 1	850 OHM													
	B- VOLT	R38	5-235	SEE NOTES 1 & 3	-3.711V													
LED A32	OVER-DRIVE	R88	5-96	SEE NOTE 1	5.55V	5.43V	5.36V	5.30V	5.24V	5.14V	5.03V	4.91V	4.83V	4.79V	4.70V	4.60V	4.50V	4.36V
	UNDER DRIVE	R92	5-96	SEE NOTE 1	4.55V	4.43V	4.36V	4.30V	4.24V	4.14V	4.03V	3.91V	3.83V	3.79V	3.70V	3.60V	3.50V	3.36V
	AVG. CURRENT	R102	5-103	SEE NOTES 1 & 2	4.000V													
	PEAK CURRENT	R98	5-104	SEE NOTES 1 & 2	11.850V													
	P.S. PROTECT	R23	5-105	SEE NOTES 1 & 2	SEE NOTE 4													
DR. COMB A14	DRIVER TUNING	J31,J32	5-175	SEE NOTE 1	1-5	1-5	1-4	1-4	1-4	1-4	1-3	1-3	1-3	1-3	1-3	1-2	1-2	1-2
	DRIVER AMPL.	J17,J19 J21	5-177	SEE NOTE 1	1-4	1-4	1-3	1-3	1-3	1-3	1-2	1-2	1-2	1-2	1-2	1-4	1-4	1-4
	DRIVER AMPL.	J18,J20 J22	5-177	SEE NOTE 1	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-3	1-3	1-3
	NEUT. CONFIG.	J24	5-225		1-3 & 2-4					1-2 & 3-4								
	NEUT. AMPL.	J23	5-225	SEE NOTE 1	1-3													
	NEUT. CAPAC.	J25	5-225	SEE NOTE 1	IN (1-2)					OUT (1-3)							IN (1-2)	
		J26	5-225	SEE NOTE 1	OUT (1-3)	IN (1-2)				OUT (1-3)							IN (1-2)	
		J27	5-225	SEE NOTE 1	OUT (1-3)													IN (1-2)
		J28	5-225	SEE NOTE 1	OUT (1-3)													
		J29	5-225	SEE NOTE 1	IN (1-2)					OUT (1-3)								
	NEUT. INDUC.	J30	5-225	SEE NOTE 1	1-4	1-5				1-2								
	PREDR. BAND SW.	J14	D-16		1-2	1-3												
	PREDR. V. SELECT	J15	D-19	SEE NOTE 2	1-2													

4. NO PRESETABLE PARAMETER AVAILABLE. SET PER REF. PARAG.
3. ADJUST OFFSET AND GAIN ON A35. ADJUST B- AT 1KW AND NO MOD.
2. PARAMETER IS NOT FREQUENCY DEPENDENT.
1. THE VALUE LISTED IS A STARTING POINT ONLY. THE PARAMETER MUST BE ADJUSTED PER THE REF. PARAG.

NOTES

REV	DATE	BY	CHK	ENG	ECO NBR
F	DEC 10, 2004	SEC	SEC		50683
UPDATED REVISION PER ECO					
G	MAR 08, 2005	SEC	SEC		50985
UPDATED REVISION PER ECO					

HARRIS
 HARRIS CORPORATION
 BROADCAST COMMUNICATIONS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	GLOVER	TITLE	TUNING CHART, DX-10
DATE	FEB 1988		
ENG CHK	GJK 3-88		
PRJ ENG	NR 3-88		
MFG ENG		DWG NO.	839-6208-285
C	SHEET 2 OF 3	REV	G

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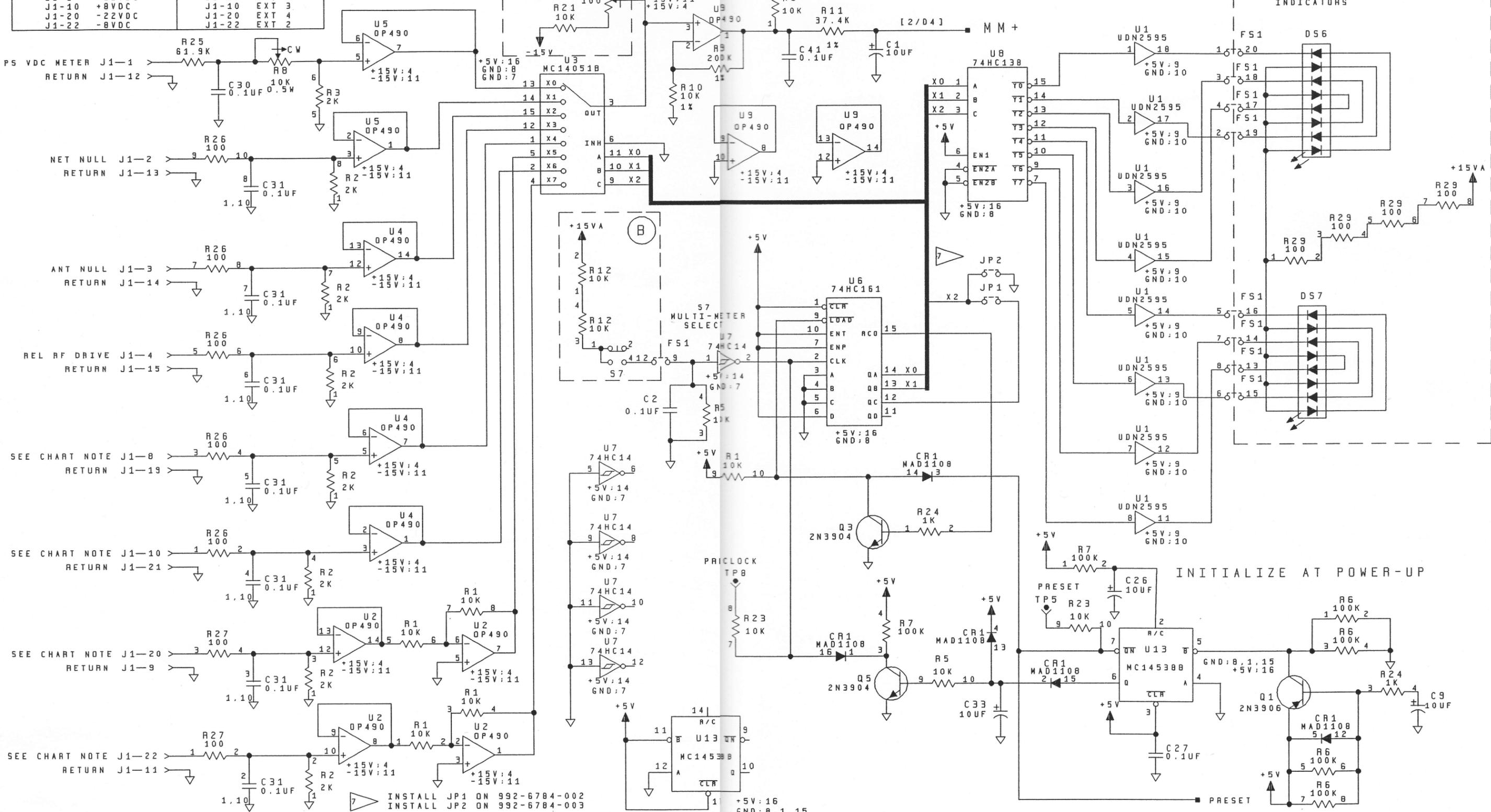
BOARD	FUNCTION	COMPONENT	REF. PARAG.	APPLICABLE NOTES	525 TO 630 KHZ	631 TO 700KHZ	701 TO 790 KHZ	791 TO 820 KHZ	821 TO 900 KHZ	901 TO 1000 KHZ	1001 TO 1100 KHZ	1101 TO 1200 KHZ	1201 TO 1250 KHZ	1251 TO 1300 KHZ	1301 TO 1400 KHZ	1401 TO 1500 KHZ	1501 TO 1600 KHZ	1601 TO 1720 KHZ
DSC. A17-002	VSWR FEEDBK.	S1	5-213	SEE NOTE 1	1,3,4 DN	1,2,4 DN	2,4 DN	1,4 DN	2,3 DN	1,3 DN	3 DN	3 DN	3 DN	3 DN	1,2 DN	1,2 DN	1,2 DN	2 DN
	XTAL SELECT	P1 & P6	5-164	SEE NOTE 2	1-2 & 1-2 OR 1-3 & 1-3													
	XTAL DIVIDE	P2	5-164		1-3								1-2					
	INT. DSC. OR EXT.	P3	A-18	SEE NOTE 2	1-3													
	SINGLE OR COMB.	P4	A-24	SEE NOTE 2	1-3													
DSC. A17-004	VSWR FEEDBK.	S1	5-213	SEE NOTE 1	1,3,4 DN	1,2,4 DN	2,4 DN	1,4 DN	2,3 DN	1,3 DN	3 DN	3 DN	3 DN	3 DN	1,2 DN	1,2 DN	1,2 DN	2 DN
	XTAL SELECT	P1 & P6	5-164	SEE NOTE 2	1-2 & 1-2 OR 1-3 & 1-3													
	XTAL DIVIDE	P2	5-164		1-3								1-2					
	INT/EXT OR AUTO	JP4,JP5,JP6																
	SINGLE OR COMB.	P4	A-24	SEE NOTE 2	1-3													
	CW DETECT	R64	5-213	SEE NOTE	18K	15K	13K	11.5K	10K	9K	7.5K	6K	5.5K	5.5K	4.7K	3.5K	3.5K	2.9K
SW. BRD. A31	FWD. PWR. CAL.	R1	R-22	SEE NOTES 1 & 4	5.0K OHM	9.0K OHM	16.6K OHM	18.2K OHM	19.5K OHM	21.3K OHM	23.0K OHM	23.7K OHM	24.8K OHM	25.1K OHM	25.7K OHM	26.0K OHM	26.2K OHM	26.3K OHM
	REV. PWR. CAL.	R2	R-22	SEE NOTES 1 & 5	15.7K OHM	18.9K OHM	21.3K OHM	23.0K OHM	24.0K OHM	25.6K OHM	26.8K OHM	27.9K OHM	28.5K OHM	28.8K OHM	29.0K OHM	29.5K OHM	29.8K OHM	29.9K OHM
PA	EFFICIENCY COILS	A19L1-L16 A20L1-L16 A18L7-L16		SEE NOTE 6	SEE NOTE 9 65T				50 T.	41 T.			29 T.	21 T.	21 T.	14 T.		
	1/2 STEP B7	A18L1	5-218	SEE NOTES 1, 6 & 7	64 T.	64 T.	58 T.	53 T.	49 T.	42 T.	35 T.	31 T.	29 T.	28 T.	25 T.	23 T.	22 T.	14 T.
	1/4 STEP B8	A18L2	5-218	SEE NOTES 1, 6 & 7	64 T.	53 T.	46 T.	41 T.	37 T.	31 T.	27 T.	23 T.	22 T.	21 T.	20 T.	18 T.	18 T.	12 T.
	1/8 STEP B9	A18L3	5-218	SEE NOTES 1, 6 & 7	64 T.	50 T.	42 T.	38 T.	33 T.	28 T.	23 T.	20 T.	19 T.	18 T.	16 T.	15 T.	14 T.	12 T.
	1/16 STEP B10	A18L4	5-218	SEE NOTES 1, 6 & 7	52 T.	42 T.	35 T.	31 T.	28 T.	23 T.	20 T.	17 T.	15 T.	14 T.	13 T.	11 T.	11 T.	11 T.
	1/32 STEP B11	A18L5	5-218	SEE NOTES 1, 6 & 7	41 T.	33 T.	29 T.	26 T.	23 T.	20 T.	17 T.	14 T.	12 T.	11 T.	10 T.	10 T.	9 T.	9 T.
	1/64 STEP B12	A18L6	5-218	SEE NOTES 1, 6 & 7	35 T.	29 T.	24 T.	22 T.	20 T.	16 T.	13 T.	10 T.	10 T.	9 T.	8 T.	8 T.	8 T.	9 T.
	BINARY AMP. 1/2	A18J30	5-222	SEE NOTES 1 & 8	+5%					0%								
	BINARY AMP. 1/4	A18J31	5-222	SEE NOTES 1 & 8	0%													
	BINARY AMP. 1/8	A18J32	5-222	SEE NOTES 1 & 8	0%		-5%							0%				
	BINARY AMP. 1/16	A18J33	5-222	SEE NOTES 1 & 8	0%		-5%											

8. ADJUST THE BINARY EFFICIENCY COILS BEFORE ADJUSTING THESE AMPLITUDES.
7. ADJUST THESE BINARY EFFICIENCY COILS BEFORE ADJUSTING BINARY AMPLITUDE.
6. PARAMETER IS THE NUMBER OF ACTIVE COIL TURNS.
5. REMOVE PLUG P1 FROM A31J1. SET SWITCH A31S1 TO REVERSE POWER. MEASURE R FROM A31M1 POS. TERM. TO A31J138.
4. REMOVE PLUG P1 FROM A31J1. SET SWITCH A31S1 TO FORWARD POWER. MEASURE R FROM A31M1 POS. TERM. TO A31J139.
3. DESIGNATION REFERS TO POSITION OF SHIELD IN PLUG P3.
2. PARAMETER IS NOT FREQUENCY DEPENDENT.
1. THE VALUE LISTED IS A STARTING POINT ONLY. THE PARMETER MUST BE ADJUSTED PER THE REF. PARAG.

NOTES	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR	HARRIS	HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY	GLOVER	TITLE	TUNING CHART, DX-10		
		F		DEC 10, 2004	SEC	SEC	50683			DATE	FEB 1988		-		
		ADDED DSC LINES A17 -004								ENG CHK	GJK 3-88		-		
		G		MAR 08, 2005	SEC	SEC	50985			PROJ ENG	NR 3-88		-		
	UPDATED DSC A17 -04 / CW DETECT LINE									MFG ENG	-	DWG NO.	839-6208-285	REV	G
										C	SHEET 3 OF 3				

J1 CONNECTION CHART

DX10, DX15, DX25, DX50 (TO A38 CONTROLLER)		DX100 (TO A31 CONTROLLER)	
J1-8	+22VDC	J1-8	EXT 1
J1-10	+8VDC	J1-10	EXT 3
J1-20	-22VDC	J1-20	EXT 4
J1-22	-8VDC	J1-22	EXT 2



INSTALL JP1 ON 992-6784-002
INSTALL JP2 ON 992-6784-003

4. INDUCTANCE IN UH.
3. CAPACITANCE IN UF.
2. RESISTANCE IN OHMS.
1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE
(Z/A1) CONTINUATION SYMBOL

REV	DATE	ENG	ECO	NUM
F	11-15-01	RLB	RLB	47777
GROUND U6 PIN 5				
G	10-01-03	MAB	BAR	49475
REVISE SHEET 2				

HARRIS

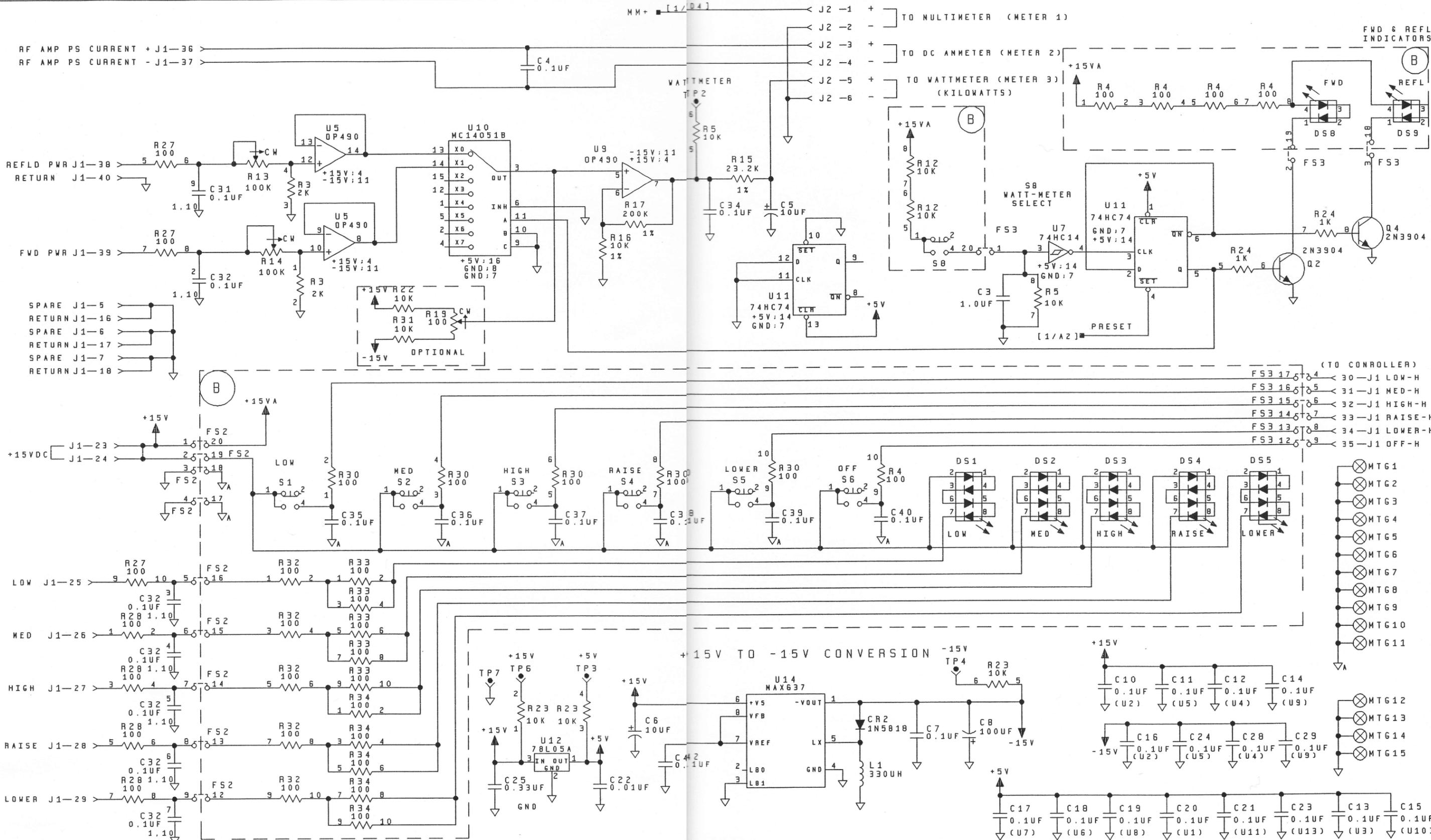
HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
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DATE	BY	CHK	ENG	PRJ	ENG	DATE	BY	CHK	ENG	PRJ	DATE	BY	CHK	ENG	PRJ
7-8-93	B. BEEVER	S. ARMISTEAD	M. NOWACK	M. RUSSELL		7-8-93	S. ARMISTEAD	M. NOWACK	M. RUSSELL		7-8-93	S. ARMISTEAD	M. NOWACK	M. RUSSELL	

TITLE: SCHEM SWITCH/METER BD

DWG # 833-6208-301 REV G



4. INDUCTANCE IN UH.
 3. CAPACITANCE IN UF.
 2. RESISTANCE IN OHMS.
 1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE (2/A1) CONTINUATION SYMBOL

REV	NO	DATE	ENG	ECO NUM
F		11-15-01	RLB	47777
G		06-19-01	MAB	49475
REVISE R15				

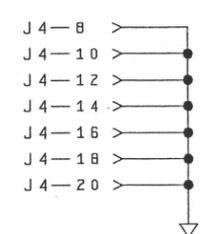
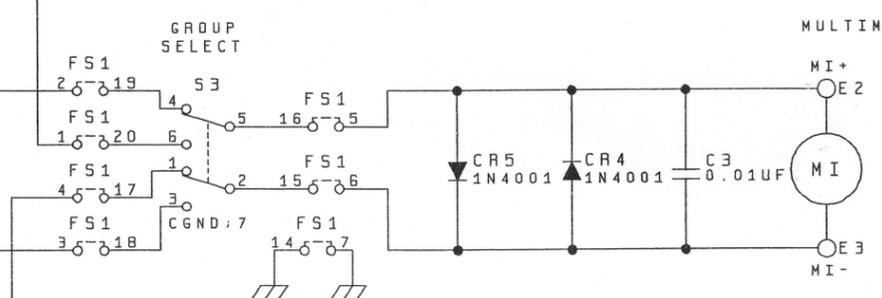
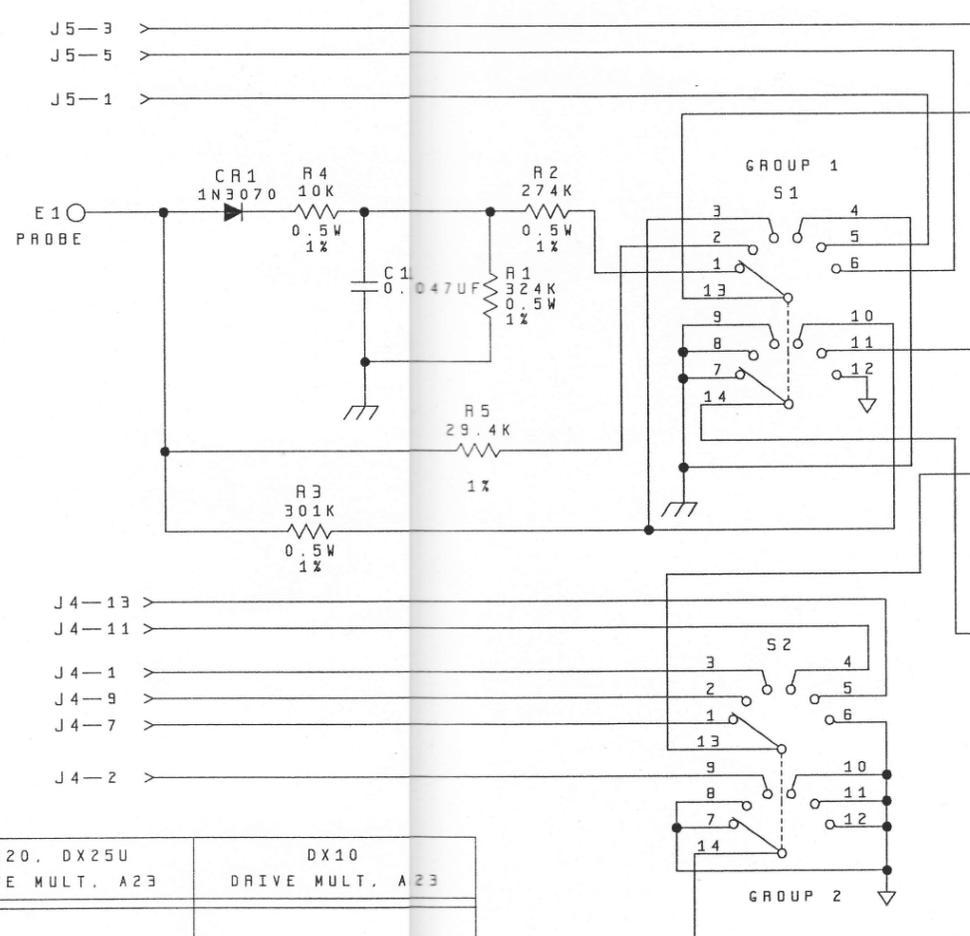
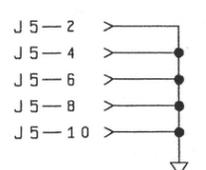
HARRIS

HARRIS CORPORATION
 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

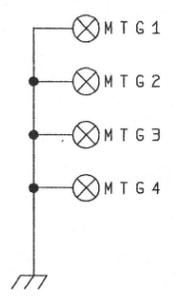
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DATE	BY	TITLE
7-8-93	B BEEVER	SCHEM SWITCH/METER BD
	S. ARMISTEAD	
	M. NOWACK	
	M. RUSSELL	

DWG # 839-6208-301 REV G



CONNECTOR	SWITCH POSITION	DX100 CONTROL MULT. A41	DX100 DRIVE MULT. A9	DX20, DX25U DRIVE MULT. A23	DX10 DRIVE MULT. A23
		INTERFACE	A22-J4 DRIVER SUPPLY REGULATOR		
J4-1 J4-2	S2-3 S2-3	A/D INPUT (+) A/D INPUT (-)	DRIVER IDC+ DRIVER IDC-	DRIVER CURRENT+ DRIVER CIRRENT-	DRIVER CURRENT+ DRIVER CURRENT-
J4-7 J4-9 J4-11 J4-13	S2-1 S2-2 S2-4 S2-5	B+/B- UNREGULATED +12 VDC A/D OUTPUT B-DRIVE	CONTROL +VDC DRIVER +VDC DRIVER 14A +VDC DRIVER 14B +VDC	CONTROL +VDC REG VDC DRIVER 8A +VDC DRIVER 8B +VDC	+15VDC REG VDC DRIVER A +VDC DRIVER B +VDC
			A14-J5 DRIVER COMBINER-MB		
J5-1 J5-3	S1-5 S1-5	+22/-22 (+) +22/-22 (-)	PREDRIVER CURRENT + PREDRIVER CURRENT -	PREDRIVER CURRENT + PREDRIVER CURRENT -	PREDRIVER CURRENT + PREDRIVER CURRENT -
J5-5	S1-6	+8/-8	PREDRIVER VDC	PREDRIVER VDC	PREDRIVER VDC
	S1-1 S1-2 S1-3 S1-4	PROBE	PROBE	PROBE	PROBE
	S2-6	NOT USED	NOT USED	NOT USED	NOT USED



4. INDUCTANCE IN UH.
3. CAPACITANCE IN UF.
2. RESISTANCE IN OHMS.
1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
5. SHEET NUMBER ZONE (2/A1) CONTINUATION SYMBOL

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
A			5-12-95	DFD	SCA	
B			12-7-00	DN	DN	46723

ADD DX20 WITH DX25U TO TABLE HEADING.



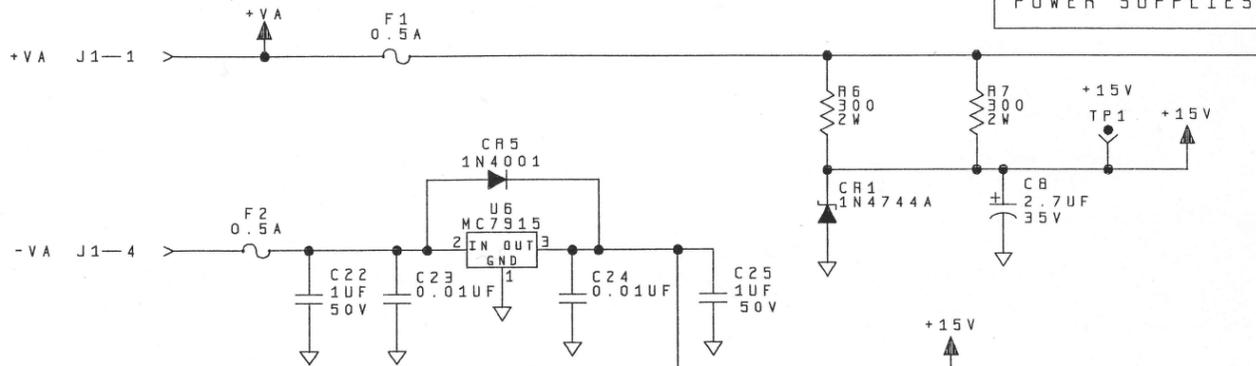
HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY	DFD
DATE	2-21-94
ENG CHK	SCA
PROJ ENG	SCA
MFG ENG	
D	SHEET 1 OF 1

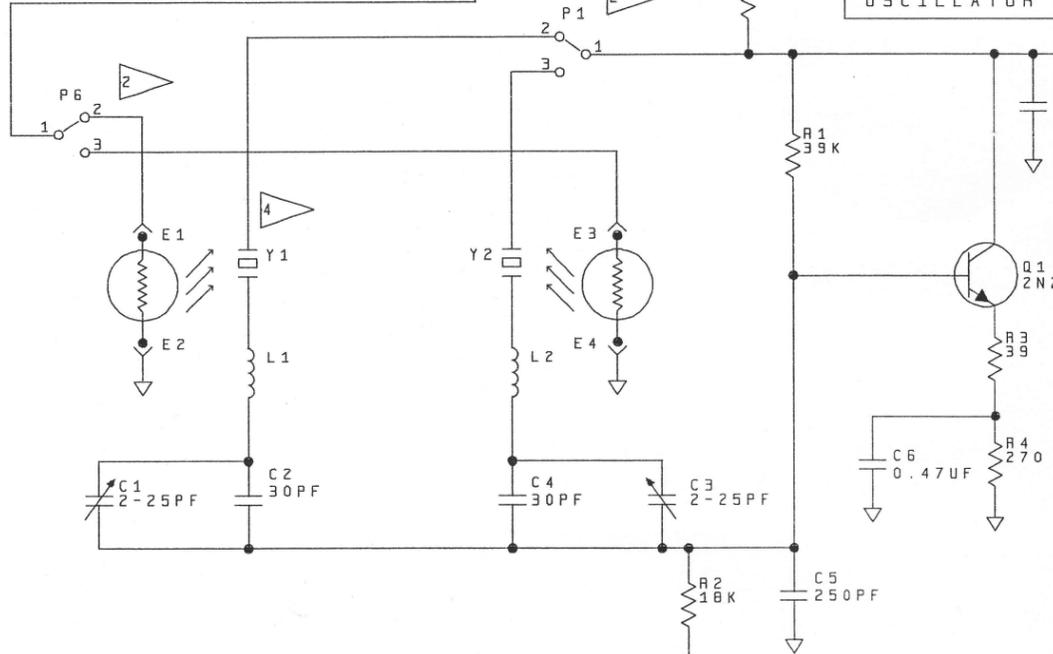
TITLE	SCHEM. MULTIMETER
DWG #	839-6208-302
REV B	

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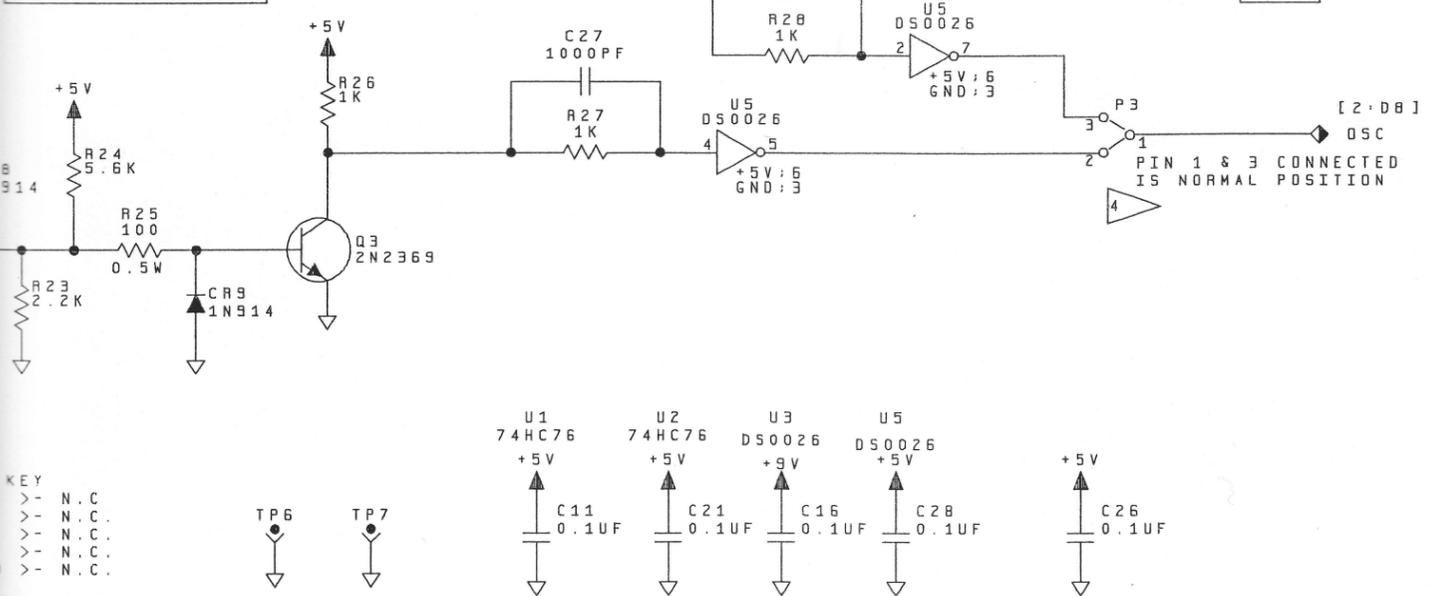
POWER SUPPLIES



OSCILLATOR

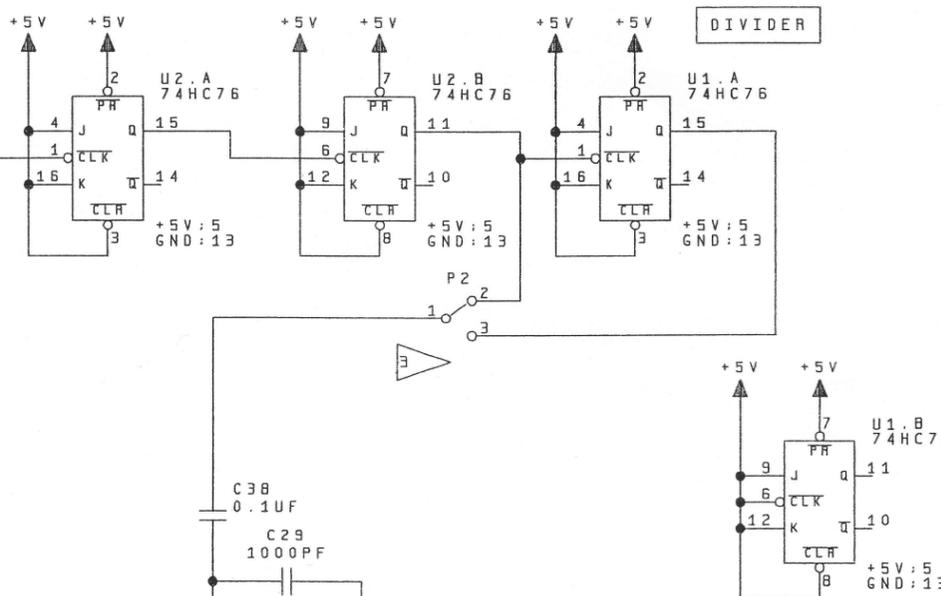


EXTERNAL INPUT



APPLICATIONS	DX-10 DX-15 DX-20 DX-25U DX-35 DX-50 DX-100	DX-200 DX-200PB DX-250
REFERENCE	VOLTAGE	VOLTAGE
+VA	+22VDC	+18VDC
-VA	-22VDC	-18VDC

DIVIDER



GROUND J1-2
SHEILD J1-5

EXTERNAL INPUT
4.0-4.5V PP TTL
OR
0-25dBm / 50 OHM

- 1 FOR EXTERNAL INPUT (0 dBm MINIMUM 25dBm MAXIMUM INTO 50 OHM)
CONNECT P5-1 TO P5-3
FOR TTL EXTERNAL INPUT, CONNECT P5-1 TO P5-2
- 2 FOR Y1 AND OVEN 1 OPERATION CONNECT P1-1 TO P1-2 AND P6-1 AND P6-2
FOR Y2 AND OVEN 2 OPERATION CONNECT P1-1 TO P1-3 AND P6-1 AND P6-3
- 3 FOR 1251 KHz AND ABOVE DIVIDE BY 4 CONNECT P2-1 TO P2-2
FOR 1250 KHz AND BELOW DIVIDE BY 8 CONNECT P2-1 TO P2-3
- 4 FOR INTERNAL OSC CONNECT P3-1 TO P3-3
FOR EXTERNAL OSC CONNECT P3-1 TO P3-2

J1-3 KEY
J1-6 >- N.C.
J1-7 >- N.C.
J1-8 >- N.C.
J1-9 >- N.C.
J1-10 >- N.C.

4. INDUCTANCE IN UH.
3. CAPACITANCE IN UF.
2. RESISTANCE IN OHMS.
1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE CONTINUATION SYMBOL (2/A1)

REV	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
1	G		3/8/01	KAG	RLS	47044
REVISED SHEET 2						
2	F		12-7-00	DN	DN	46723
ADD DX20 TO APPLICATION TABLE.						



HARRIS CORPORATION
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QUINCY, ILLINOIS 62305

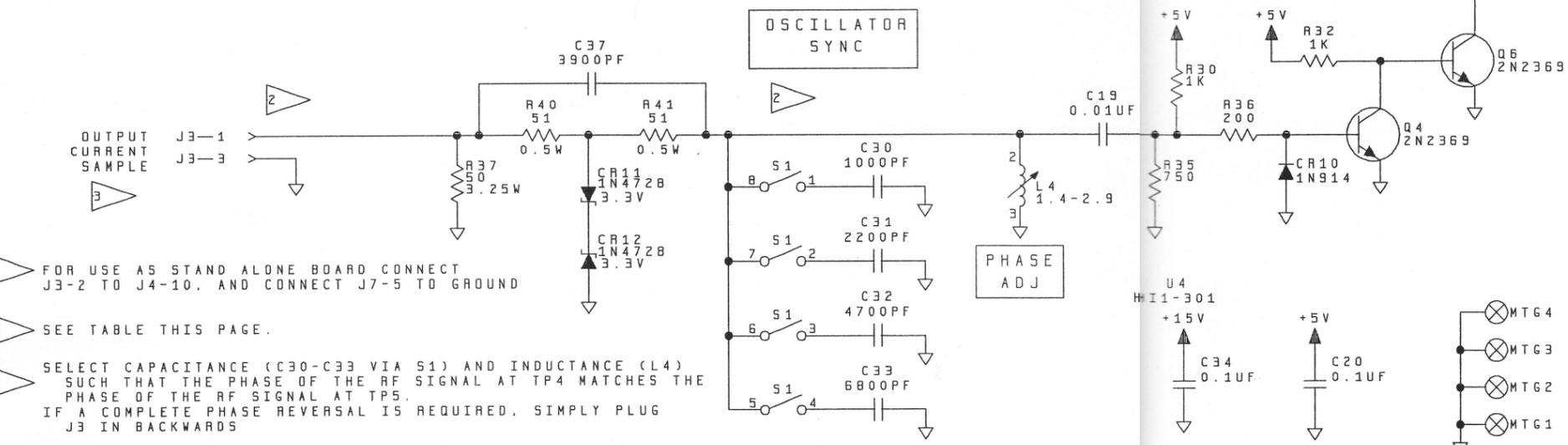
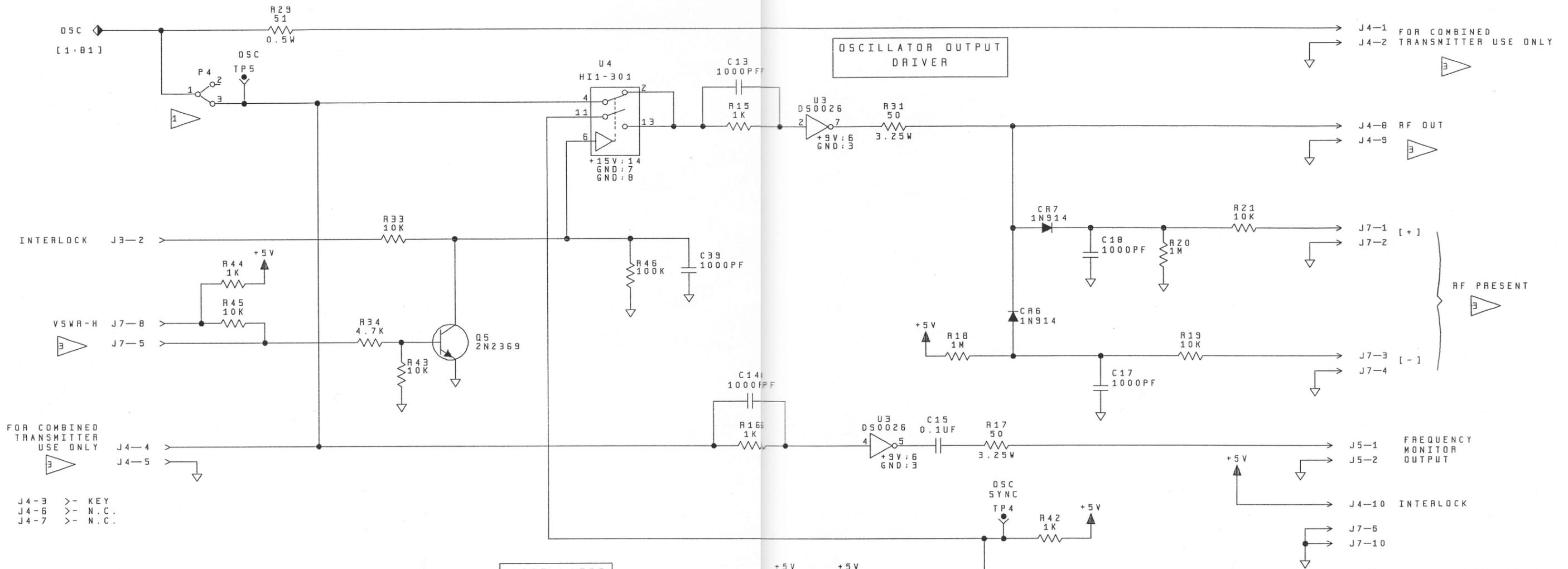
DRAWN BY ROBERT FINLEY
DATE AUG 12, 1991
ENG CHK JEFF MALEC
PROJ ENG JEFF MALEC
MFG ENG MIKE RUSSELL

TITLE SCHEM. OSCILLATOR

DWG # 839-7930-032 REV G

SHEET 1 OF 2

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	DX-10, DX-15 DX-20, DX-25U DX-30, DX35 DX-50	DX-100	DX-200	DX-250
J7-5.8	A32 J1-5 LED BOARD	A3 J10 OSCILLATOR INTERFACE	A3 J12 OSCILLATOR INTERFACE	A3 J12 OSCILLATOR INTERFACE
J4-4.5	A28 J4 EXTERNAL INTERFACE	A3 J8 OSCILLATOR INTERFACE	A3 J3 OSCILLATOR INTERFACE	A3 J3 OSCILLATOR INTERFACE
J4-1.2 J4-8.9	A14 J1 DRIVER COMBINER MOTHER BOARD	A3 J8 OSCILLATOR INTERFACE	A3 J3 OSCILLATOR INTERFACE	A3 J3 OSCILLATOR INTERFACE
J7-1.2 J7-3.4	A32 J1 LED BOARD	A3 J10 OSCILLATOR INTERFACE	A3 J12 OSCILLATOR INTERFACE	A3 J12 OSCILLATOR INTERFACE
J3-1.3	1T6	1T4	1T4	1T4

- 4 FOR USE AS STAND ALONE BOARD CONNECT J3-2 TO J4-10, AND CONNECT J7-5 TO GROUND
- 3 SEE TABLE THIS PAGE.
- 2 SELECT CAPACITANCE (C30-C33 VIA S1) AND INDUCTANCE (L4) SUCH THAT THE PHASE OF THE RF SIGNAL AT TP4 MATCHES THE PHASE OF THE RF SIGNAL AT TP5. IF A COMPLETE PHASE REVERSAL IS REQUIRED, SIMPLY PLUG J3 IN BACKWARDS
- 1 FOR NORMAL OPERATION: CONNECT P4-1 TO P4-3
FOR COMBINED OPERATION: CONNECT P4-1 TO P4-2

4. INDUCTANCE IN UH.
3. CAPACITANCE IN UF.
2. RESISTANCE IN OHMS.
1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE (2/A1) CONTINUATION SYMBOL

REV	DATE	ENG	ECO NUM
F	12-7-00	DN	46723
G	3/8/01	KAG	47044

ADD DX20 TO TABLE.

ADDED NOTE 4

HARRIS

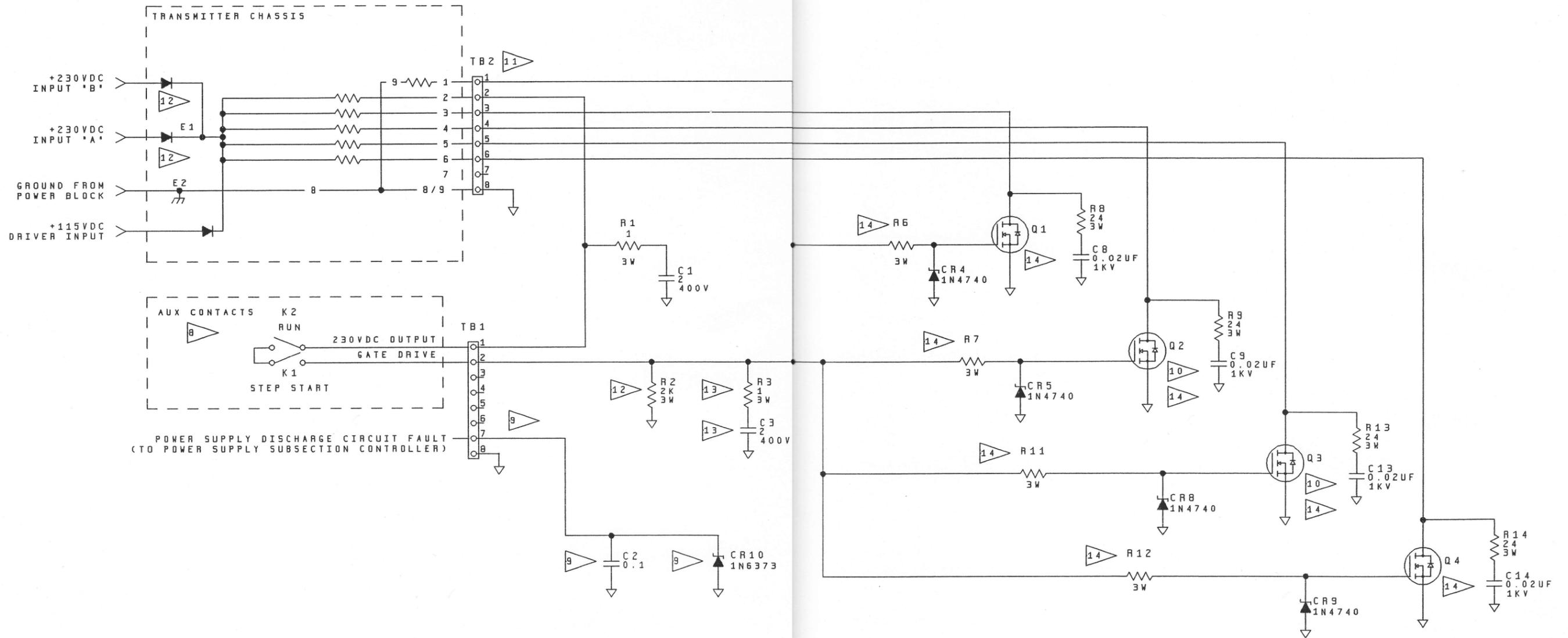
HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

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DRAWN BY	DATE	ENG	PROJ	TITLE
ROBERT FINLEY	AUG 12, 1991	JEFF MALEC	JEFF MALEC	SCHEM. OSCILLATOR
MIKE RUSSELL				DWG # 839-7930-032

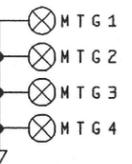
SHEET 2 OF 2

REV G

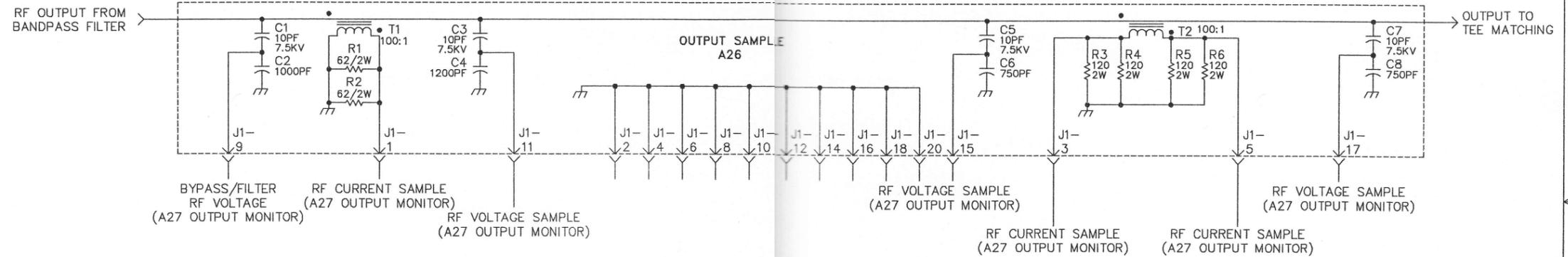


- 13 NOT USED WITH -005 ASSEMBLY
- 12 USED ONLY ON -005 ASSEMBLY
- 11 TB2-4, 5 NOT CONNECTED ON -004 ASSEMBLY
- 10 NOT USED ON -004 ASSEMBLY
- 9 USED ONLY ON -001 & -005 ASSEMBLIES
- 8 AUXILLARY CONTACTS OF STEP START AND RUN (SHOWN FOR REFERENCE ONLY)
- 7 DISCRETE PARTS (PART OF DISCHARGE ASSEMBLY, NOT PART OF CIRCUIT BOARD)

	-001	-002	-003	-004	-005
Q1	IRFP360	IRFP360	IRFP350	IRFP350	IRFP360
Q2	IRFP360	IRFP360	IRFP350	—	IRFP360
Q3	IRFP360	IRFP360	IRFP350	—	IRFP360
Q4	IRFP360	IRFP360	IRFP350	IRFP350	IRFP360
R6,7,11,12	10K	10K	10K	10K	330



NOTES	4. INDUCTANCE IN UH.	6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM		HARRIS CORPORATION BROADCAST SYSTEMS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY	D. DAVIDSON	TITLE	
	3. CAPACITANCE IN UF.			H		01-17-01	MAB	TLH	46733			DATE	10-16-92		SCH. PWR SUPPLY DISCHARGE
	2. RESISTANCE IN OHMS.			REVISE OVERALL			ENG	CHK	J. MALEC			DATE			
	1. ALL RESISTORS ARE 1/2 WATT, 1%.			J		6-1-01	JPK		47361			ENG	M. RUSSELL		
UNLESS OTHERWISE NOTED.	SHEET NUMBER ZONE (2/A1)		CONTINUATION SYMBOL		REARRANGED & CLARIFIED FLAGGED NOTES		THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.		D		SHEET 1 OF 1				



NOTES

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
1	B	.	12/08/94	pjf	.	38312
Redrawn in autocad						



HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	B. PERRY
DATE	11-2-92
ENG CHK	B. LITTLE
PROJ ENG	B. LITTLE
MFG ENG	-
C	SHEET 1 OF 1

TITLE	SCHEMATIC OUTPUT SAMPLE DX-15
DWG NO.	839-7953-001
REV	B

THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.

COMPONENT DESIGNATION	525 TO 565 KHZ	566 TO 609 KHZ	610 TO 656 KHZ	657 TO 707 KHZ	708 TO 762 KHZ	763 TO 821 KHZ	822 TO 885 KHZ	886 TO 953 KHZ	954 TO 1026 KHZ	1027 TO 1105 KHZ	1106 TO 1190 KHZ	1191 TO 1282 KHZ	1283 TO 1381 KHZ	1382 TO 1486 KHZ	1487 TO 1601 KHZ	1602 TO 1720 KHZ
A17Y1, A17Y2 CRYSTAL	QTY. 2 444-2909-XXX	SEE CRYSTAL SPEC. 817-1280-025 FOR SPECIFIC PART NO. VS. FREQUENCY														
A14 C3/C5 PREDRIVER TUNING	USE AS BUILT														QTY. 2 500-0852-000 1000pF	QTY. 2 500-0911-000 750pF
C101 VACUUM VAR. CAP.	QTY. 1 514-0240-000 2300pF				QTY. 1 514-0264-000 1500pF					QTY. 1 514-0266-000 1500pF						
C101 HARDWARE	QTY. 1 829-9009-226 SHAFT				QTY. 1 829-9009-227 SHAFT											
C101 HARDWARE	QTY. 1 839-6208-250 CONTACT RING				QTY. 1 943-5479-110 CONTACT RING											
C102 CAPACITOR	QTY. 4 504-0497-000 6200pF	QTY. 4 504-0435-000 5600pF	QTY. 4 504-0420-000 3900pF	QTY. 4 504-0433-000 3600pF	QTY. 3 516-1016-008 1000pF	QTY. 3 516-1016-008 1000pF	QTY. 2 516-1016-008 1000pF	QTY. 3 516-1025-000 500pF	QTY. 2 516-1025-000 500pF	QTY. 2 516-1016-014 350pF	QTY. 1 516-1016-014 350pF		OMIT			
C102 HARDWARE	QTY. 2 839-6208-251 PLATE				QTY. 1 943-5479-114 BRACKET		OMIT	QTY. 1 943-5479-114 BRACKET	OMIT		QTY. 1 943-5479-114 BRACKET		OMIT			
	QTY. 2 813-5611-139 3/8-24 STUD				QTY. 1 943-5479-115 BRACKET		OMIT	QTY. 1 943-5479-115 BRACKET	OMIT		QTY. 1 943-5479-115 STRAP		OMIT			
	OMIT				QTY. 1 943-5479-112 BRACKET						OMIT					
	OMIT				QTY. 1 943-5479-113 STRAP						OMIT					
C103 CAPACITOR	QTY. 4 504-0496-000 4700pF			QTY. 4 504-0353-000 3000pF		QTY. 6 516-1016-006 1500pF		QTY. 5 516-1016-006 1500pF	QTY. 4 516-1016-006 1500pF	QTY. 5 516-1016-008 1000pF	QTY. 5 516-1016-008 1000pF	QTY. 4 516-1016-008 1000pF		QTY. 3 516-1016-008 1000pF		QTY. 2 516-1016-008 1000pF
C103 HARDWARE	QTY. 1 839-6208-256 PLATE					QTY. 1 939-8220-296 PLATE										
	OMIT					QTY. 1 939-8220-298 PLATE										
	OMIT					QTY. 1 939-8220-299 PLATE										
C104 MICA CAPACITOR	QTY. 1 504-0420-000 3900pF	QTY. 1 504-0433-000 3600pF	QTY. 1 504-0419-000 3300pF	QTY. 1 504-0353-000 3000pF	QTY. 1 504-0418-000 2700pF	QTY. 1 504-0382-000 2400pF	QTY. 1 504-0463-000 2200pF	QTY. 1 504-0374-000 2000pF	QTY. 1 504-0462-000 1800pF		QTY. 1 504-0454-000 1600pF	QTY. 1 504-0377-000 1500pF		QTY. 1 504-0461-000 1300pF		QTY. 1 504-0378-000 1200pF
A14C12,C13,C14 CAPACITOR	QTY. 3 500-1322-000 5000pF			QTY. 3 500-1324-000 4000pF				QTY. 3 500-1325-000 3000pF			QTY. 3 500-0452-000 2000pF			QTY. 3 500-1321-000 1000pF		
R38 POWER RESISTOR	QTY 1 540-1167-000 5 OHM				QTY 1 540-1490-000 10 OHM										OMIT	
C38 MICA CAPACITOR	QTY 1 500-1323-000 0.02uF				QTY 1 500-0458-000 0.01uF						QTY 1 500-1322-000 5000 pF				OMIT	
CAPACITOR HARDWARE	QTY. 18 300-1977-000 3/8-24 BOLT	QTY. 18	QTY. 18	QTY. 18	QTY. 10	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2
	QTY. 18 308-0011-000 3/8 FLT. W.	QTY. 18	QTY. 18	QTY. 18	QTY. 10	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2
	QTY. 18 312-0053-000 3/8 SPLIT W.	QTY. 18	QTY. 18	QTY. 18	QTY. 10	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2	QTY. 2

NOTES

C105 - SELECT AT TEST FOR HARMONIC SUPPRESSION
 QTY 1
 5160207000 25 PF
 5160208000 50 PF
 5160209000 100 PF
 C105 HARDWARE- USE ONLY WHEN C105 IS SELECTED
 QTY 1 8170914253

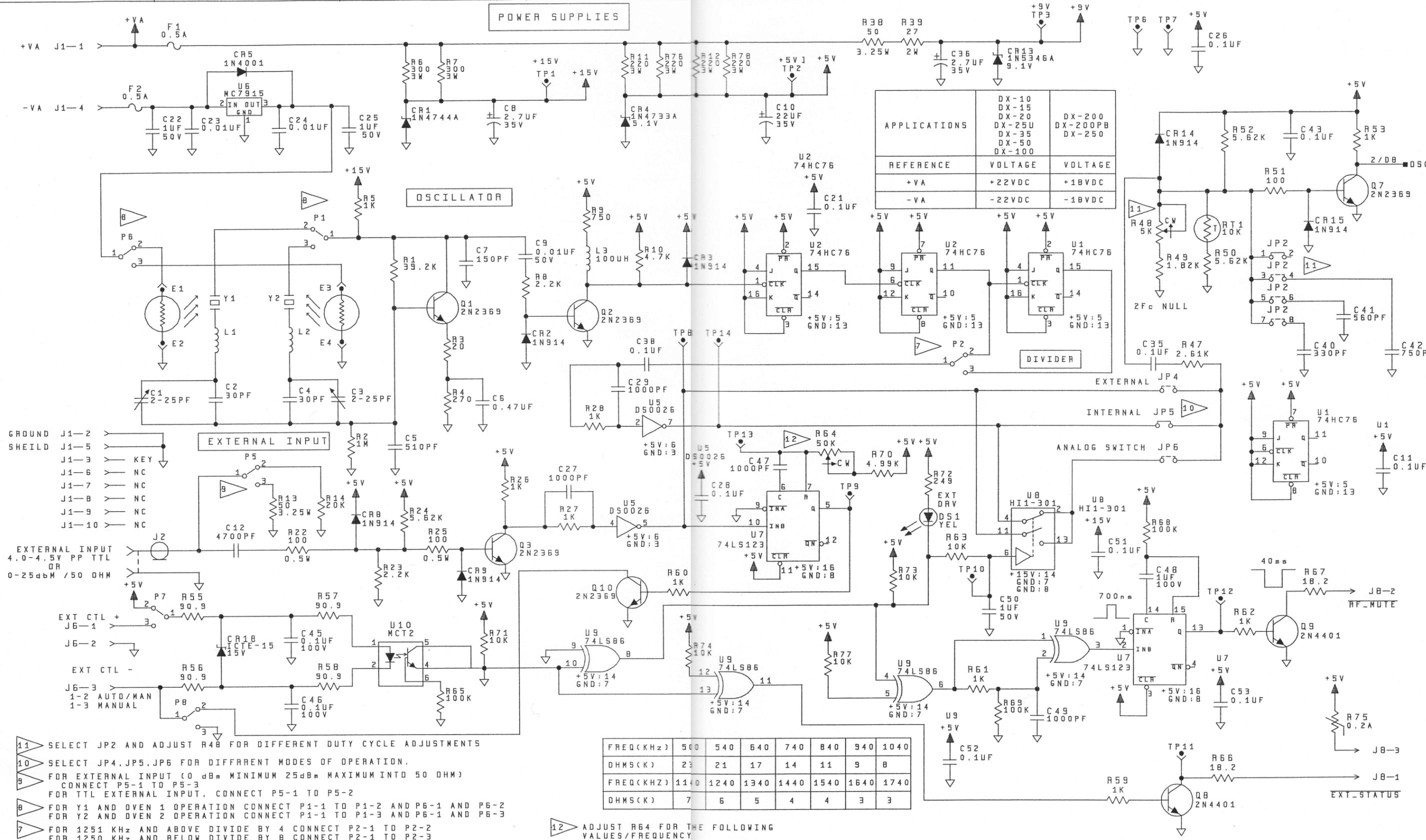
REV	DESCRIPTION	DATE	BY	CHK	ENG	ECO NBR
C	MORE BRACKET & STRAP CHANGES FOR FREQ'S	5/10/05	WLD	SPC		51316
B	FIXED BRACKET & STRAP FOR PROPER FREQ'S	2/7/05	WLD	WLD		50805

HARRIS

HARRIS CORPORATION
 BROADCAST COMMUNICATIONS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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HOLE	QTY	DESCRIPTION
TOLERANCES UNLESS NOTED .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG ALL √ INDICATES 125 MICRO INCH		
ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001		
DRAWN BY	T HOLLENBERG	TITLE
DATE	11/5/03	FD CHART, DX-10
ENG CHK	T HOLLENBERG	
PRD J		
ENG		
MFG		
ENG		
C	SHEET 1 OF 1	DWG NO. 839-8222-078
		REV C



- GROUND J1-2
 SHIELD J1-5
 KEY J1-3
 NC J1-6
 NC J1-7
 NC J1-8
 NC J1-9
 NC J1-10
- EXTERNAL INPUT
 4.0-4.5V PP TTL
 OR
 0-25dBm / 50 OHM
- EXT CTL + J6-1
 J6-2
 EXT CTL - J6-3
 1-2 AUTO/MAN
 1-3 MANUAL

- 11 SELECT JP2 AND ADJUST R48 FOR DIFFERENT DUTY CYCLE ADJUSTMENTS
- 10 SELECT JP4, JP5, JP6 FOR DIFFERENT MODES OF OPERATION.
- 9 FOR EXTERNAL INPUT (0 dBm MINIMUM 25dBm MAXIMUM INTO 50 OHM) CONNECT P5-1 TO P5-3 FOR TTL EXTERNAL INPUT, CONNECT P5-1 TO P5-2
- 8 FOR Y1 AND DVEN 1 OPERATION CONNECT P1-1 TO P1-2 AND P6-1 AND P6-2 FOR Y2 AND DVEN 2 OPERATION CONNECT P1-1 TO P1-3 AND P6-1 AND P6-3
- 7 FOR 1251 KHz AND ABOVE DIVIDE BY 4 CONNECT P2-1 TO P2-2 FOR 1250 KHz AND BELOW DIVIDE BY 8 CONNECT P2-1 TO P2-3

FREQ(KHz)	500	540	640	740	840	940	1040
OHMS(K)	23	21	17	14	11	9	8
FREQ(KHz)	1140	1240	1340	1440	1540	1640	1740
OHMS(K)	7	6	5	4	4	3	3

12 ADJUST R64 FOR THE FOLLOWING VALUES/FREQUENCY

NOTES

4. INDUCTANCE IN UH.
 3. CAPACITANCE IN UF.
 2. RESISTANCE IN OHMS.
 1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE

(2/A1) CONTINUATION SYMBOL

UNLESS OTHERWISE NOTED:

LTR	ZONE	DATE	DFTM	ENG	ECO NUM
C		3-7-05	RLB	CLL	P28984
REVISE NOTES					
D		06-30-05	MAB	CLL	51540
REVISE SHEET 2					

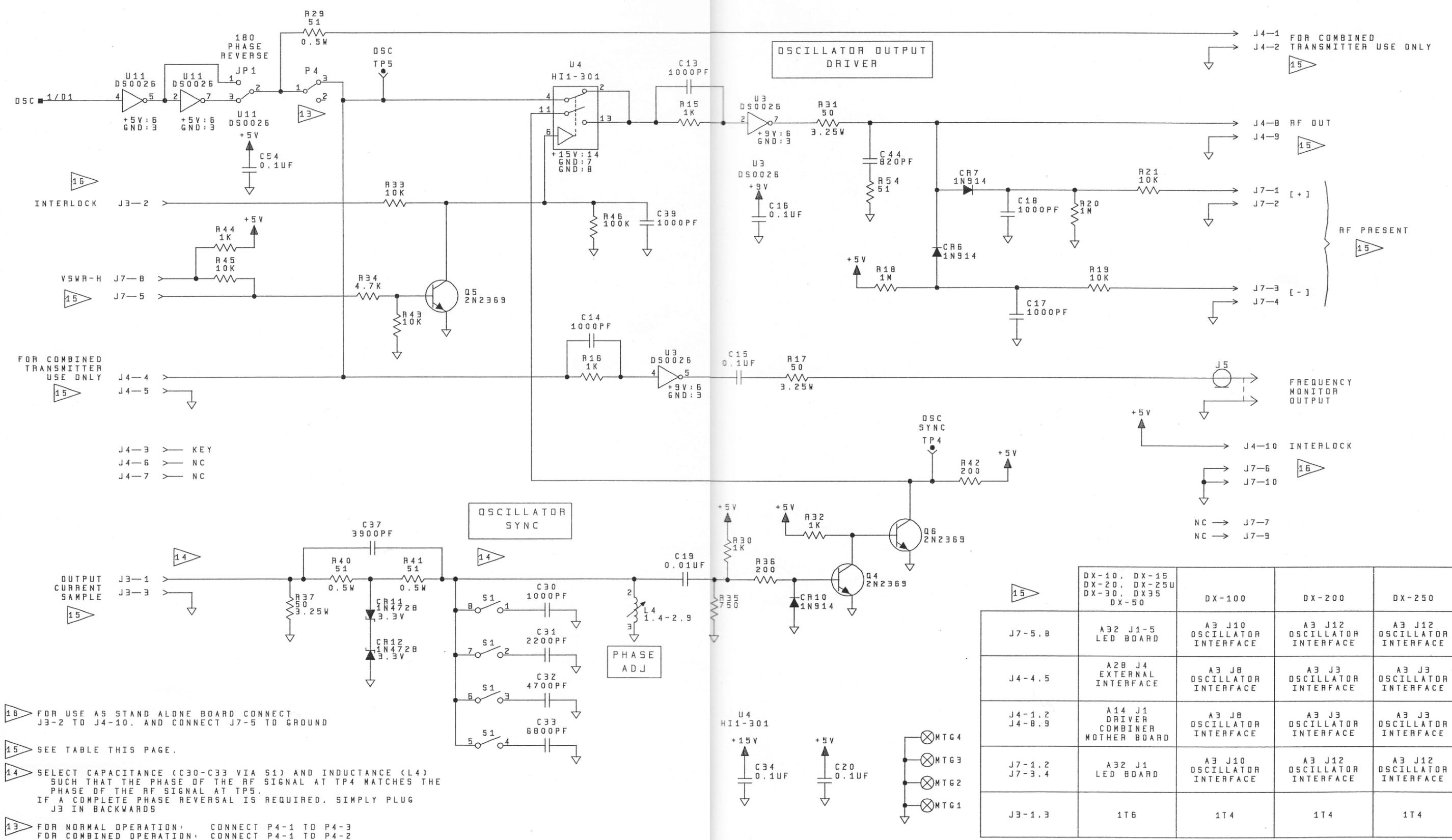
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 4393 DIGITAL WAY
 MASON, OHIO 45040

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DRAWN BY M BUNTE
 DATE 10-01-04
 ENG CHK C LUCKHAUPT
 PROJ ENG T HOLLENBERG
 MFG ENG S CORNWELL

TITLE
 SCH. OSCILLATOR. AUTO

DWG # 843-5155-851
 SHEET 1 of 2
 REV D



- 16 FOR USE AS STAND ALONE BOARD CONNECT J3-2 TO J4-10, AND CONNECT J7-5 TO GROUND
- 15 SEE TABLE THIS PAGE.
- 14 SELECT CAPACITANCE (C30-C33 VIA S1) AND INDUCTANCE (L4) SUCH THAT THE PHASE OF THE RF SIGNAL AT TP4 MATCHES THE PHASE OF THE RF SIGNAL AT TP5. IF A COMPLETE PHASE REVERSAL IS REQUIRED, SIMPLY PLUG J3 IN BACKWARDS
- 13 FOR NORMAL OPERATION: CONNECT P4-1 TO P4-3 FOR COMBINED OPERATION: CONNECT P4-1 TO P4-2

	DX-10, DX-15 DX-20, DX-25U DX-30, DX35 DX-50	DX-100	DX-200	DX-250
J7-5.B	A32 J1-5 LED BOARD	A3 J10 OSCILLATOR INTERFACE	A3 J12 OSCILLATOR INTERFACE	A3 J12 OSCILLATOR INTERFACE
J4-4.5	A28 J4 EXTERNAL INTERFACE	A3 J8 OSCILLATOR INTERFACE	A3 J3 OSCILLATOR INTERFACE	A3 J3 OSCILLATOR INTERFACE
J4-1.2 J4-8.9	A14 J1 DRIVER COMBINER MOTHER BOARD	A3 J8 OSCILLATOR INTERFACE	A3 J3 OSCILLATOR INTERFACE	A3 J3 OSCILLATOR INTERFACE
J7-1.2 J7-3.4	A32 J1 LED BOARD	A3 J10 OSCILLATOR INTERFACE	A3 J12 OSCILLATOR INTERFACE	A3 J12 OSCILLATOR INTERFACE
J3-1.3	1T6	1T4	1T4	1T4

4. INDUCTANCE IN UH.
3. CAPACITANCE IN UF.
2. RESISTANCE IN OHMS.
1. ALL RESISTORS ARE 1/2 WATT, 1%.

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5. SHEET NUMBER ZONE
(2/A1) CONTINUATION SYMBOL

UNLESS OTHERWISE NOTED:

REV	DATE	ENG	ECO NUM
C	03-07-05	RLB CLL	P28984
D	06-30-05	MAB CLL	51540

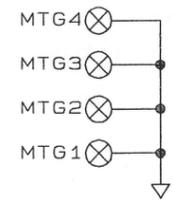
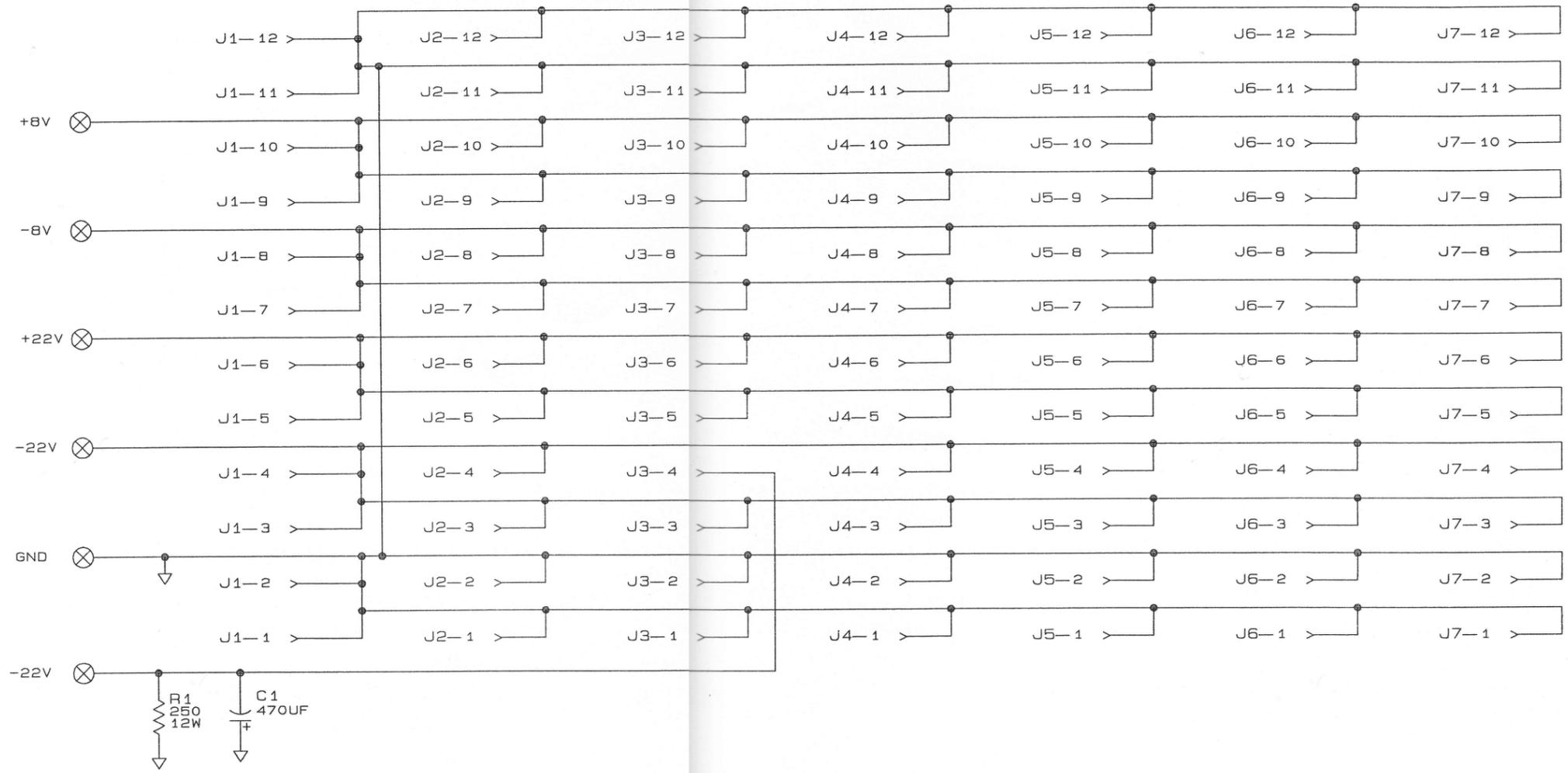
R42 WAS 1K

HARRIS

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WASON, OHIO 45040

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DRAWN BY	M BUNTE	TITLE	SCH. OSCILLATOR, AUTO
DATE	10-01-04	ENG	C LUCKHAUPT
CHK	T HOLLENBERG	PROJ	S CORNWELL
ENG		REV	
D	SHEET 2 OF 2	DWG #	843-5155-851
		REV	D



4. INDUCTANCE IN UH.
 3. CAPACITANCE IN UF.
 2. RESISTANCE IN OHMS.
 1. ALL RESISTORS ARE 1/2 WATT, 1%.

UNLESS OTHERWISE NOTED:

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE
 [2/A1] CONTINUATION SYMBOL

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
A						
NEW DRAWING						

HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

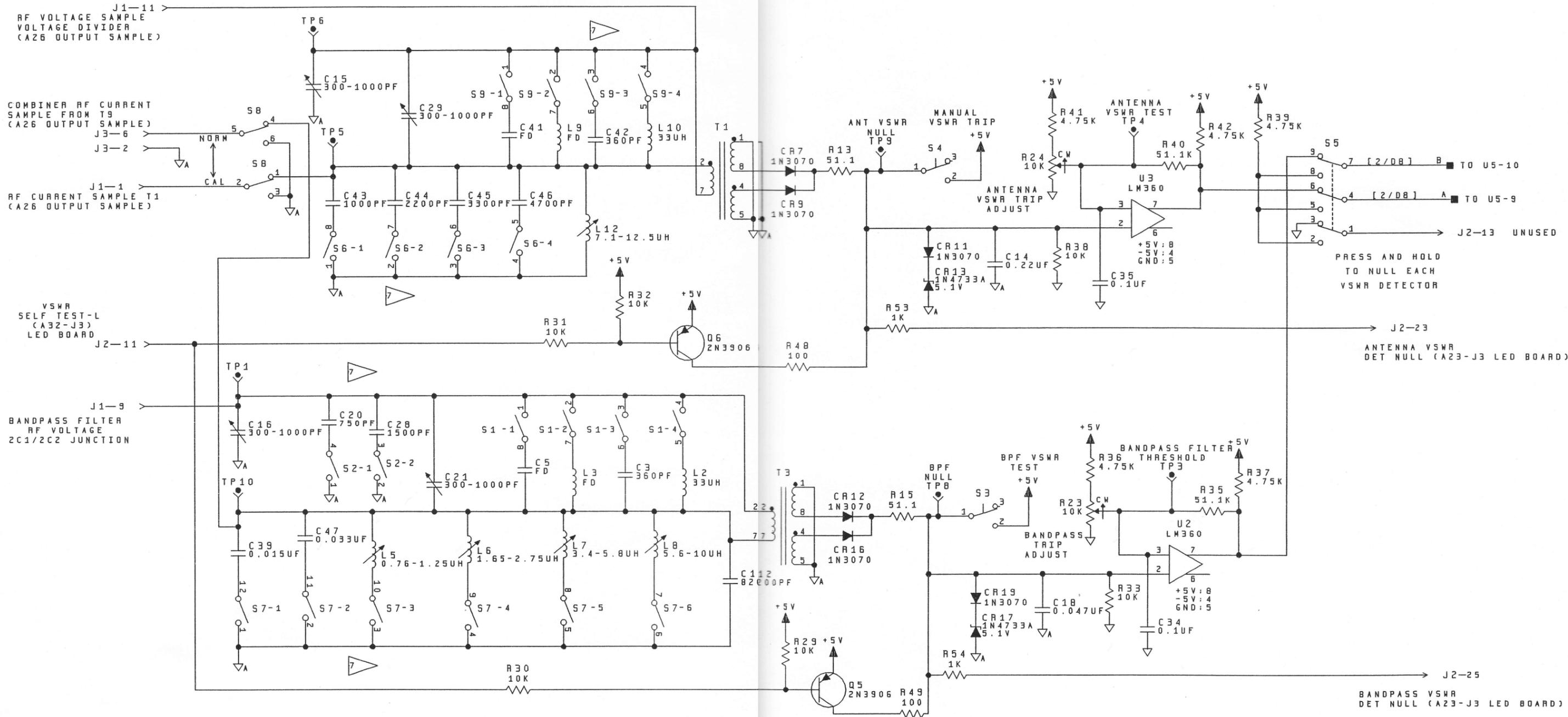
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DRAWN BY	DAVIDSON
DATE	6-28-95
ENG CHK	CROUCH
PROJ ENG	HOLLENBERG
MFG ENG	
SHEET	1 OF 1

TITLE	SCH POWER DISTRIBUTION A39
DWG #	843-5400-081
REV	A

3

NOTES



7 FREQUENCY DETERMINED

- 4. INDUCTANCE IN UH.
- 3. CAPACITANCE IN UF.
- 2. RESISTANCE IN OHMS.
- 1. ALL RESISTORS ARE 1/2 WATT, 1%.
- 6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
- 5. SHEET NUMBER ZONE (2/A1) CONTINUATION SYMBOL

REV	DATE	ENG	ECO NUM
H	7-23-99	DFD	43008
J	12-1-00	DN	46625

REVISI
ION
REVISE SHEET 3

HARRIS

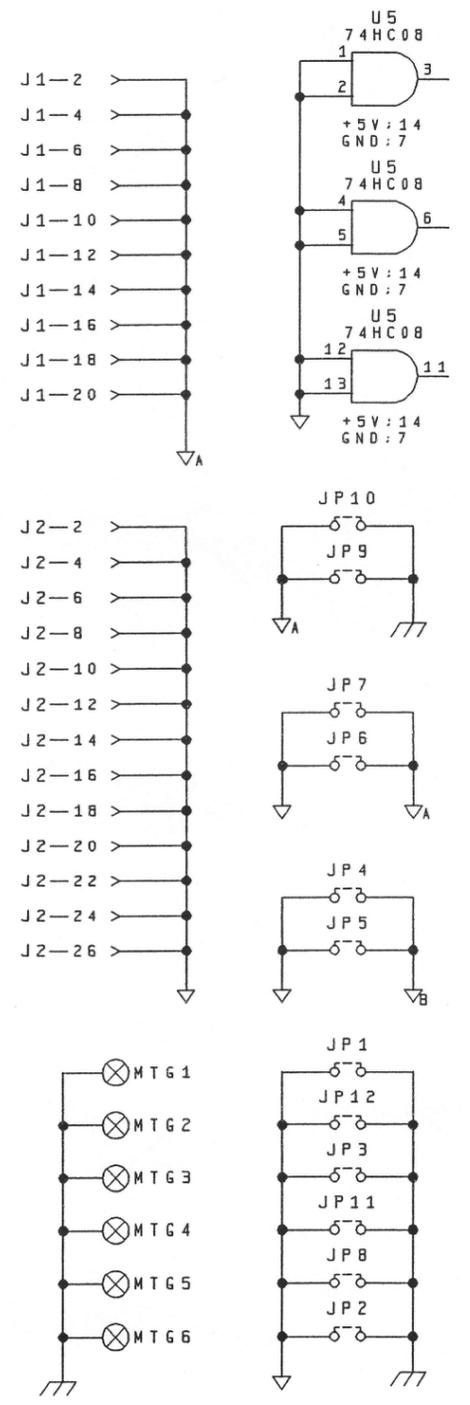
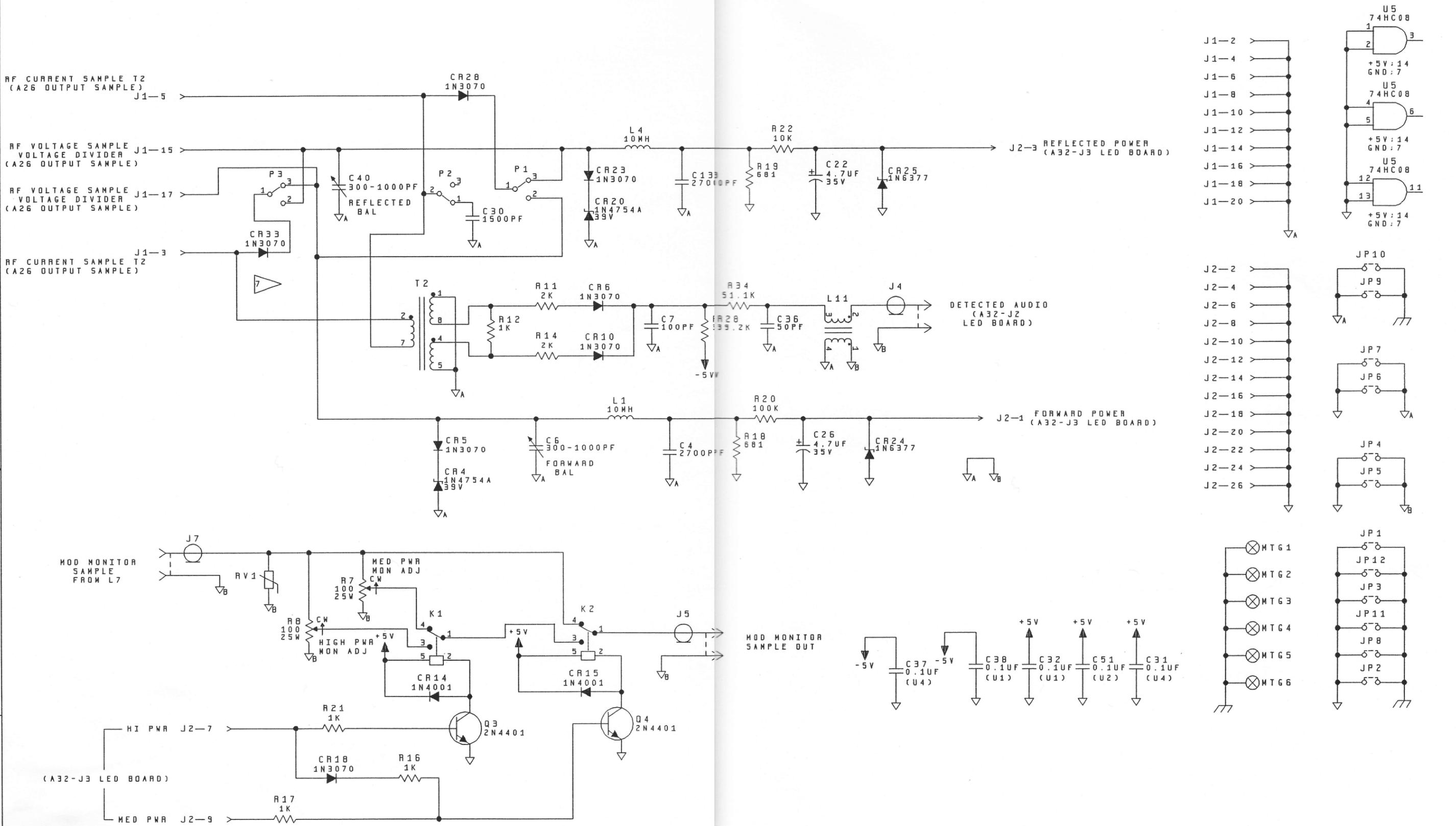
HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

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DATE	BY	TITLE
9-26-95	DAVIDSON	SCH OUTPUT MONITOR (A27)
	HOLLENBERG	
	HOLLENBERG	

DWG # 843-5400-101 REV J

SHEET 1 OF 3



CONNECT P1-1 & 3, P3-1 & 3 FOR NORMAL OPERATION

- NOTES
4. INDUCTANCE IN UH.
 3. CAPACITANCE IN UF.
 2. RESISTANCE IN OHMS.
 1. ALL RESISTORS ARE 1/2 WATT, 1%.
 5. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
- UNLESS OTHERWISE NOTED:
- (2/A1) SHEET NUMBER CONTINUATION SYMBOL

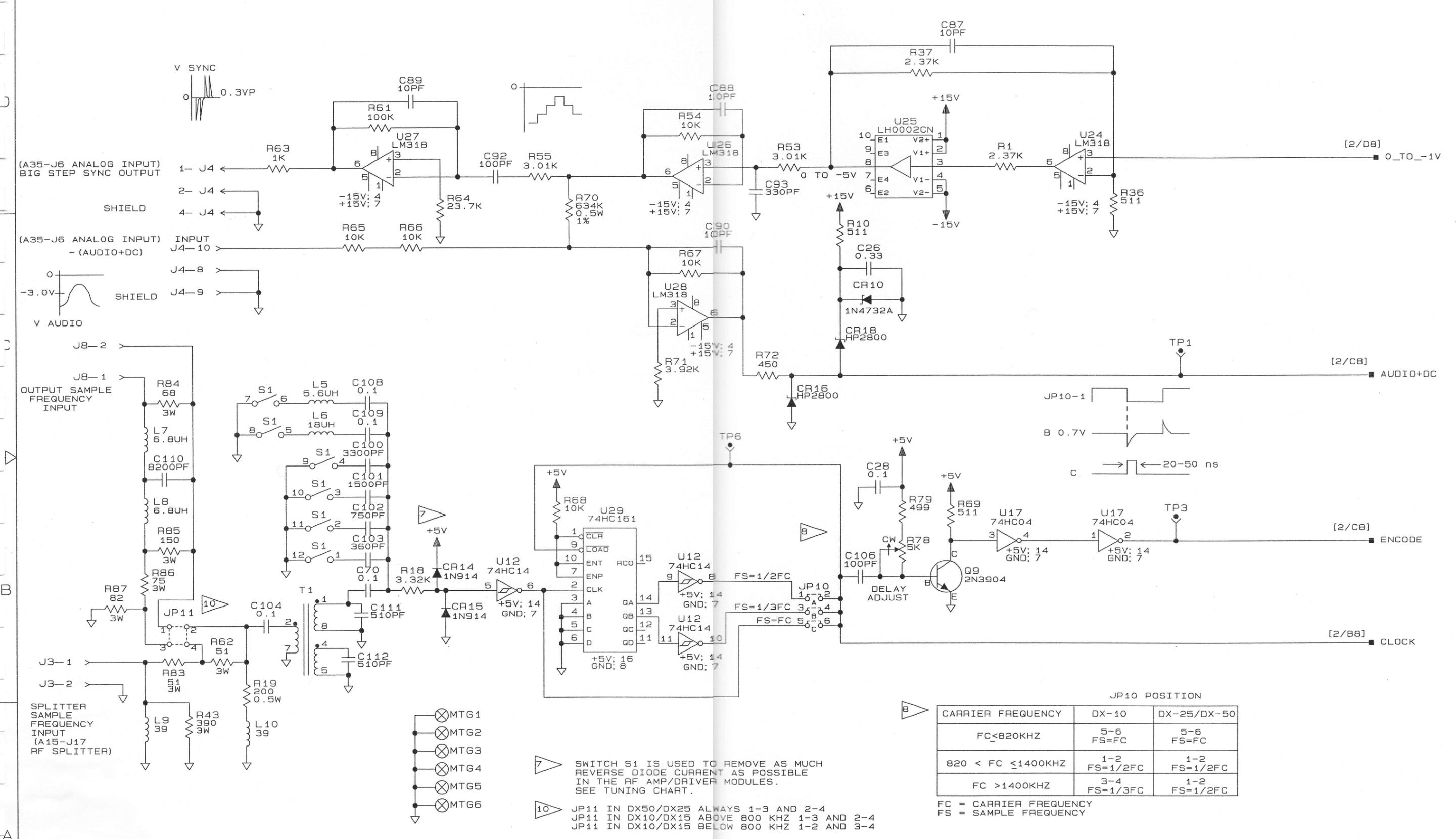
REV	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
1	H		7-23-99	DFD	DFD	43008
REVISE SHEETS 1 AND 2						
2	J		12-1-00	DN	DN	46625
CHANGE C1 & C4 FROM 10UH TO 10MH.						

HARRIS

HARRIS CORPORATION
 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY	DAVIDSON	TITLE	SCH OUTPUT MONITOR (A27)
DATE	9-26-95	DWG #	843-5400-101
ENC	HOLLENBERG	REV	J
PRJ	HOLLENBERG	SHEET	3 OF 3



NOTES

- INDUCTANCE IN UH.
- CAPACITANCE IN UF.
- RESISTANCE IN OHMS.
- ALL RESISTORS ARE 1/2 WATT, 1%.
- SHEET NUMBER ZONE (2/A1) CONTINUATION SYMBOL
- 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

LTR	ZONE	DATE	DFTM	ENG	ECO NUM
A					NEW DWG
B		2-16-00	DFD	DFD	45724

REVISE SHEET 2

HARRIS

HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

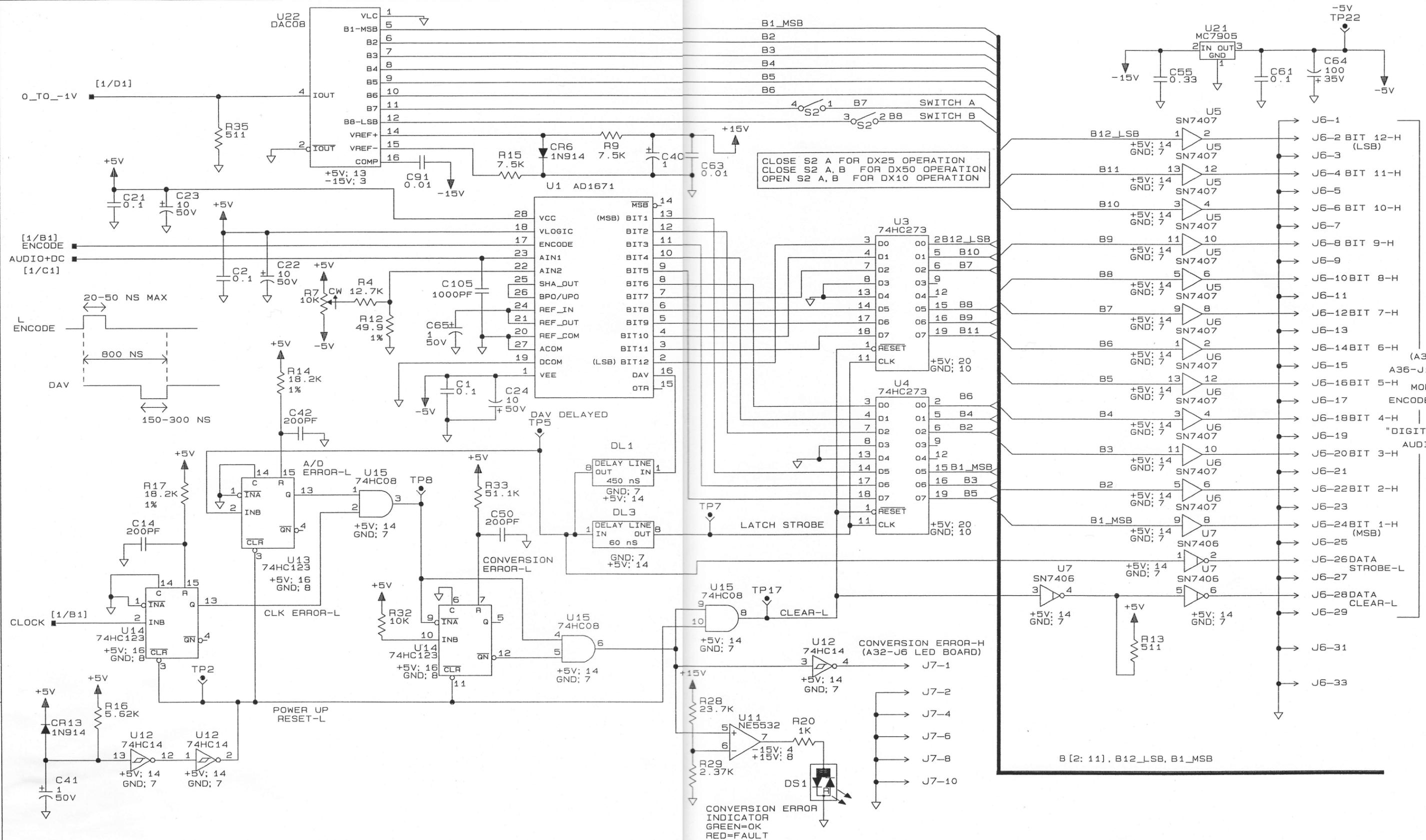
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DATE	BY	CHK	PROJ	ENG	WFG	ENG
11-17-99	D. DAVIDSON	T. HOLLENBERG	T. HOLLENBERG			

TITLE: SCH, A/D

DWG # 843 5400 431

REV B

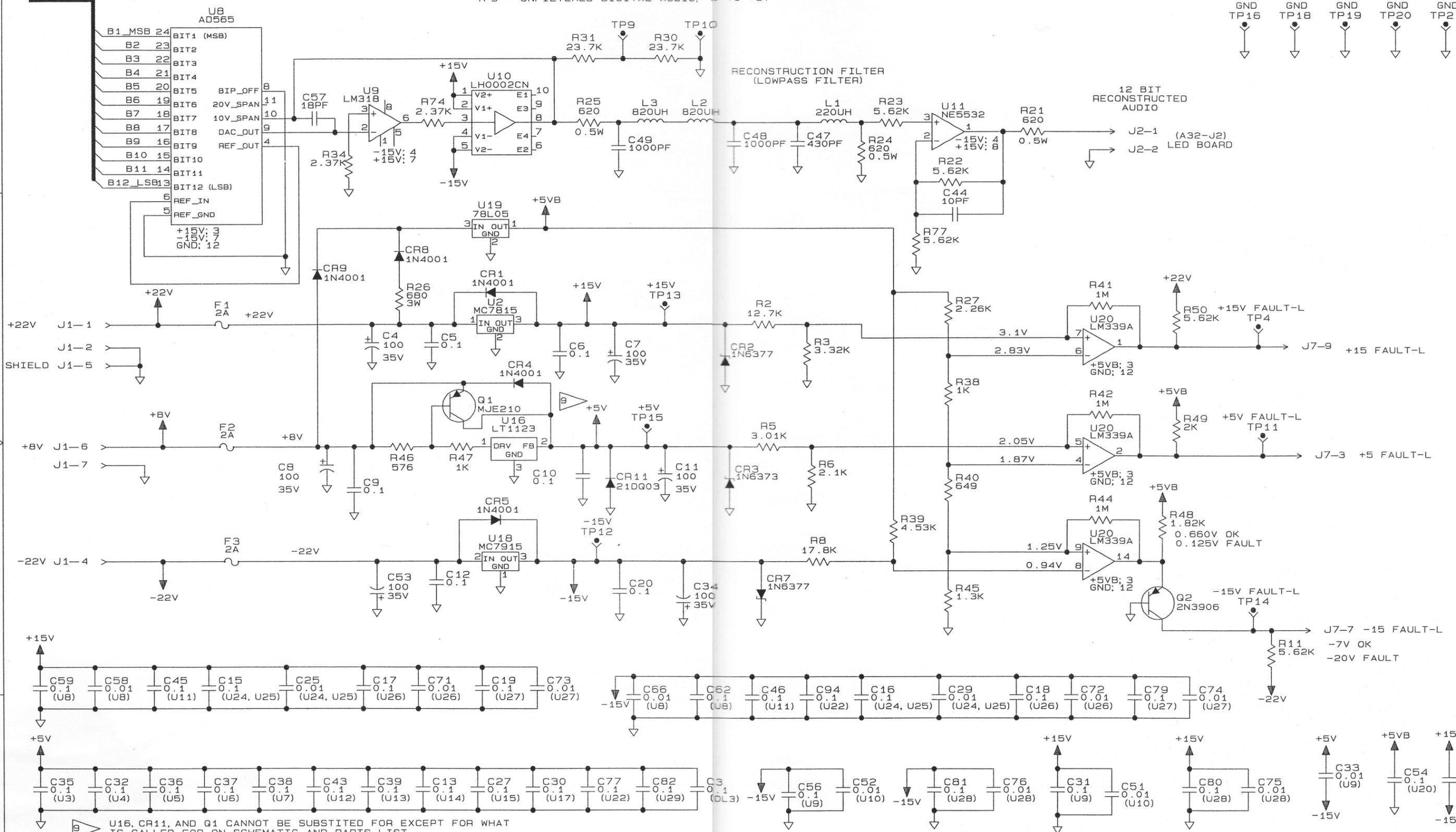


NOTES	4. INDUCTANCE IN UH.	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM	HARRIS CORPORATION BROADCAST SYSTEMS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRWN BY	D.DAVIDSON	TITLE	SCH. A/D
	3. CAPACITANCE IN UF.		A					NEW DWG		DATE	11-17-99		
	2. RESISTANCE IN OHMS.		B		2-16-00	DFD	DFD	45724		ENG CHK	T.HOLLENBERG		
	1. ALL RESISTORS ARE 1/2 WATT, 1%.		REVISE R4							PROJ ENG	T.HOLLENBERG		
UNLESS OTHERWISE NOTED:	6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.									MFG ENG		DWG #	843 5400 431
	5. SHEET NUMBER ZONE (2/A1)										SHEET 2 OF 3	REV E	

B [2: 11], B12_LSB, B1_MSB

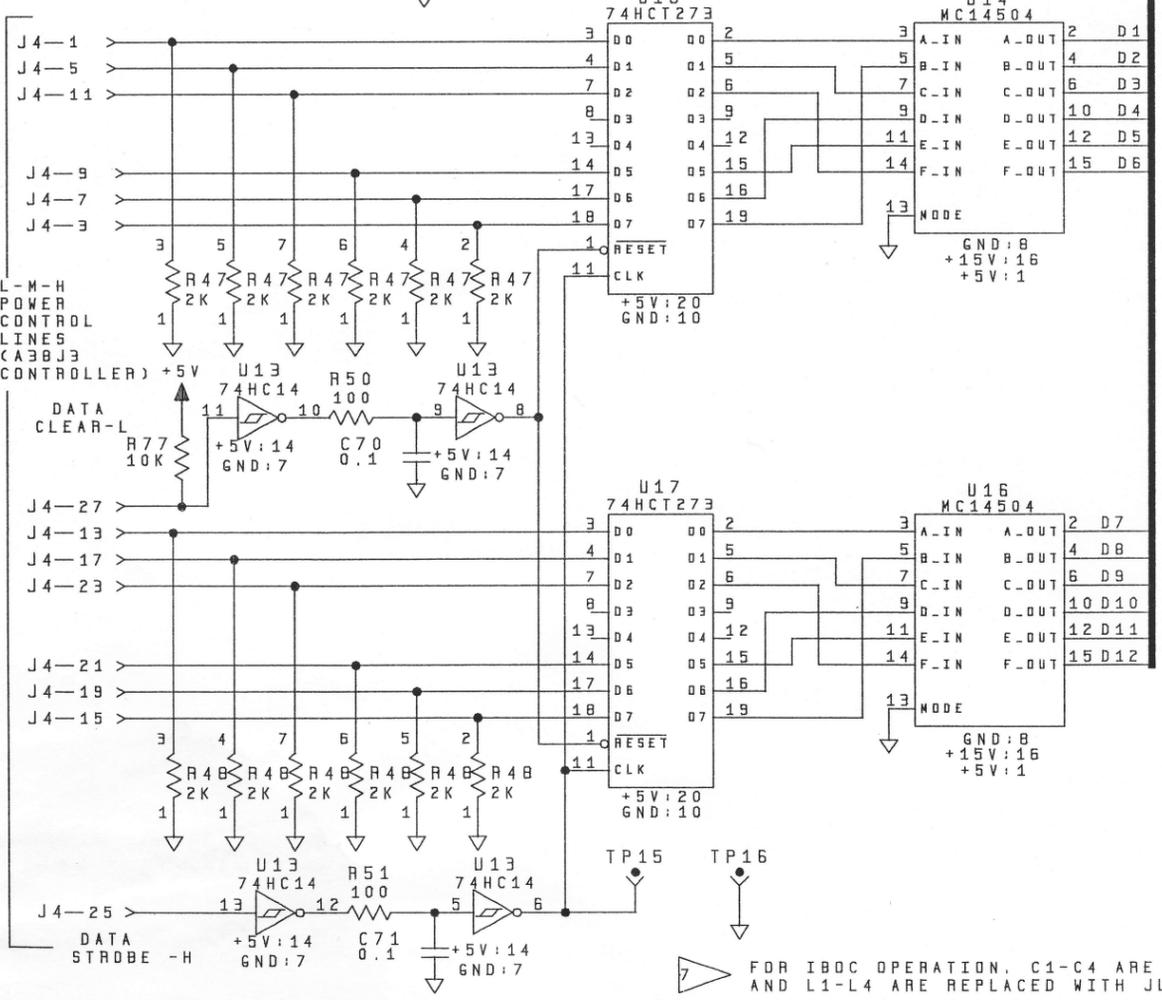
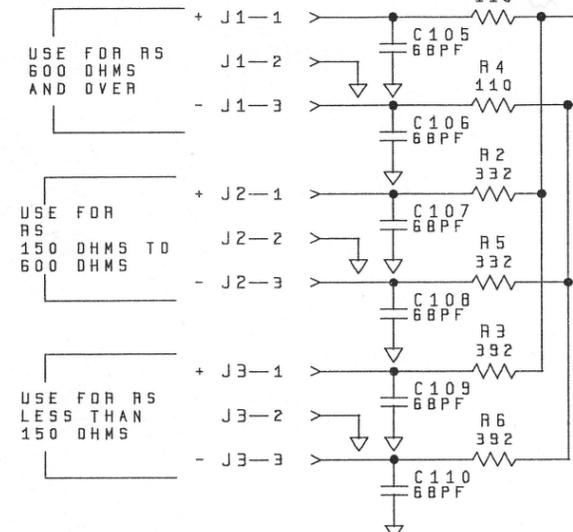
TP9 = UNFILTERED DIGITAL AUDIO, 0 TO +5V

GND TP16
GND TP18
GND TP19
GND TP20
GND TP21



NOTES	4. INDUCTANCE IN UH.	6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.	R	LTR	ZONE	DATE	DFTM	ENG	ECO NUM		HARRIS CORPORATION BROADCAST SYSTEMS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY	D. DAVIDSON	TITLE	SCH, A/D	
	3. CAPACITANCE IN UF.	5. SHEET NUMBER ZONE	E	A				NEWDWG	DATE			11-17-99	ENG	T. HOLLENBERG		
	2. RESISTANCE IN OHMS.	1. ALL RESISTORS ARE 1/2 WATT, 1%.	I	B	2-16-00	DFD	DFD	45724	THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.			PRJ	T. HOLLENBERG	DWG #		843 5400 431
	UNLESS OTHERWISE NOTED:	(2/A1) CONTINUATION SYMBOL	S					REVISE SHEET 2				ENG		SHEET 3 OF 3		REV E

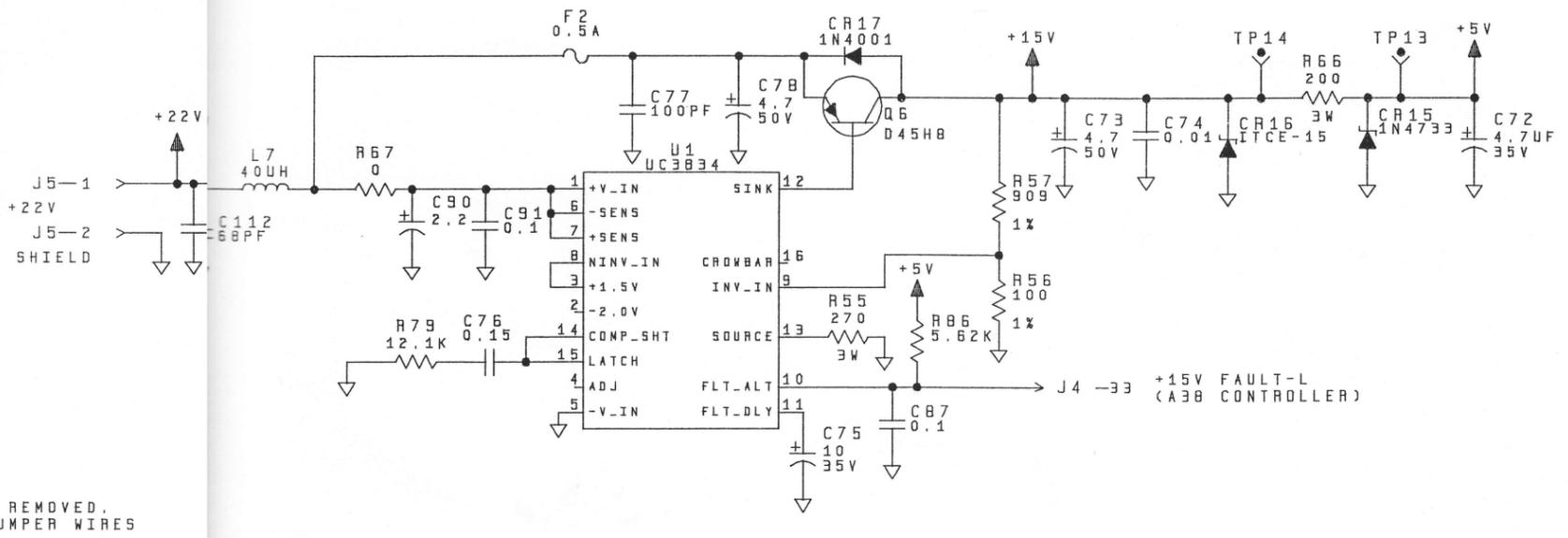
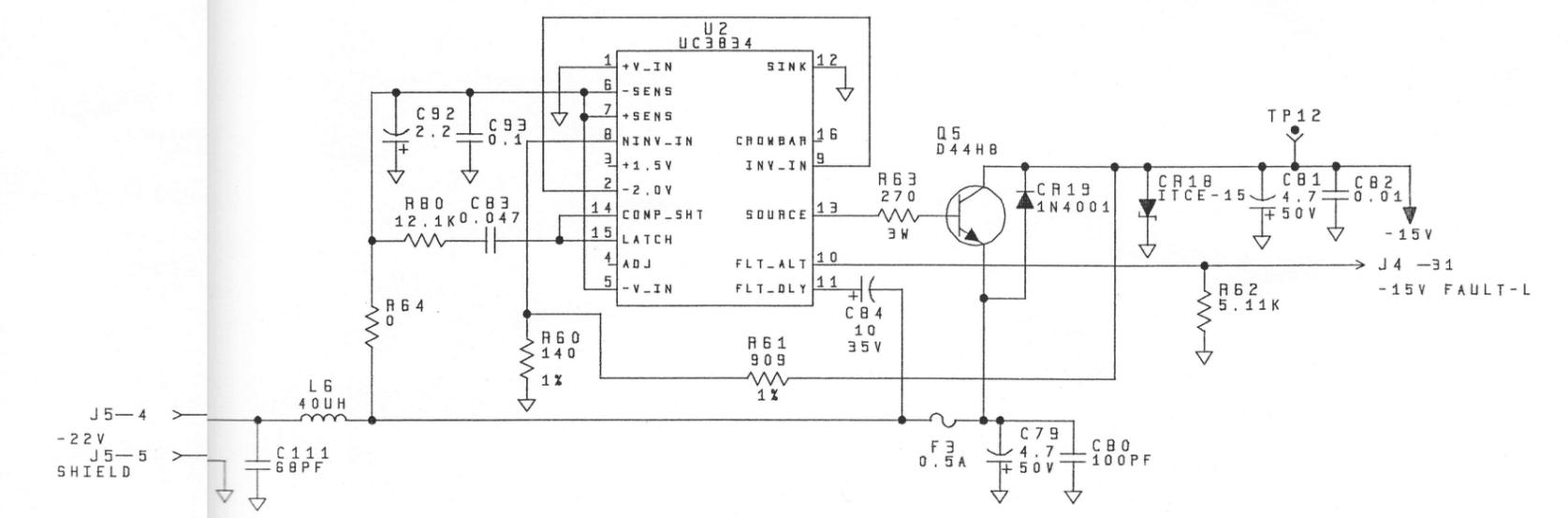
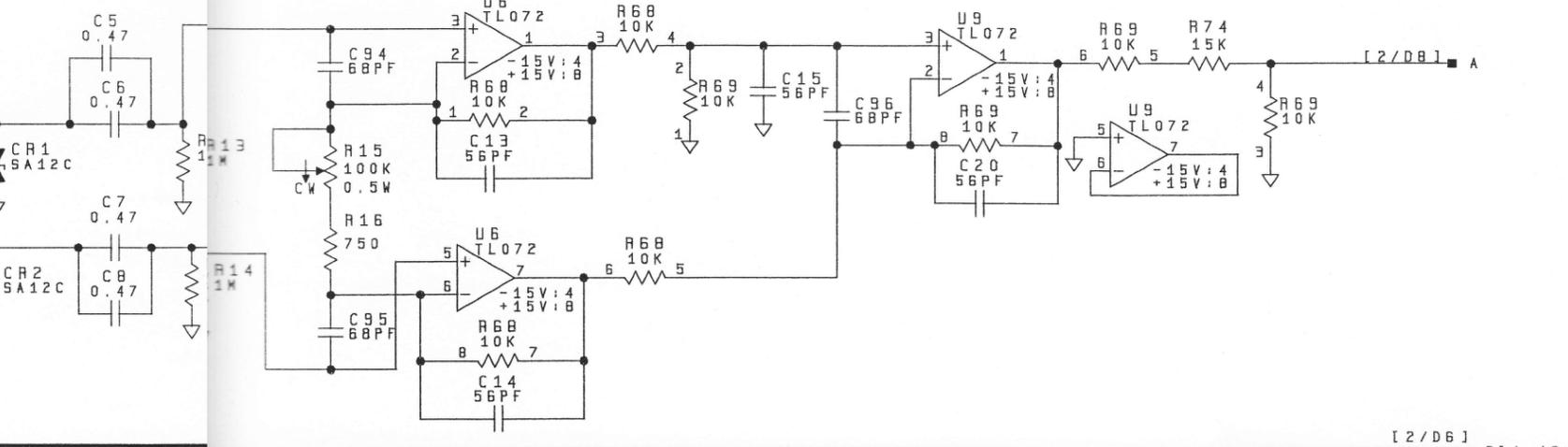
AUDIO INPUT
FROM TB3 CHOOSE ONE OF THE FOLLOWING INPUT CONNECTIONS



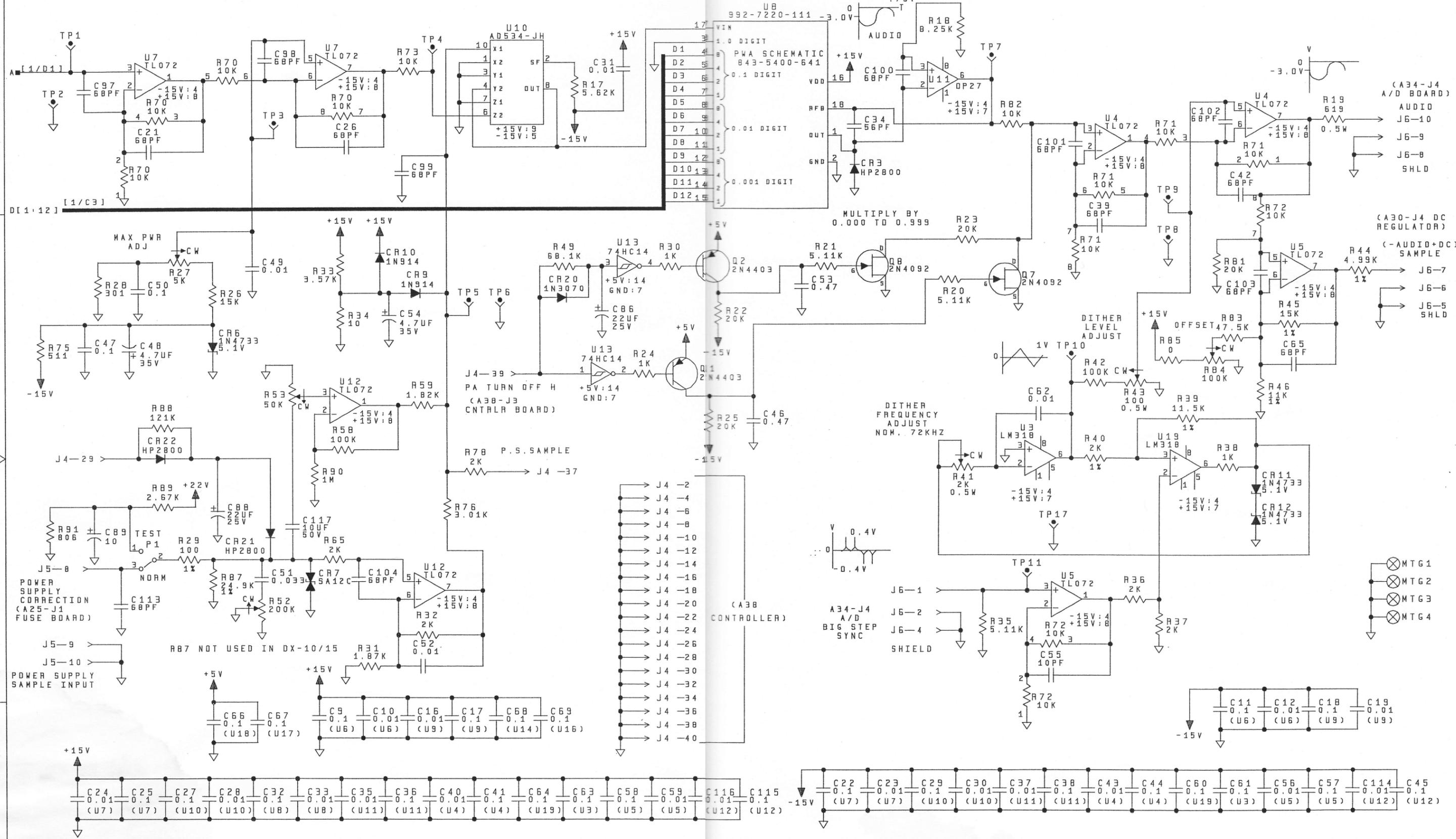
FOR IBOC OPERATION, C1-C4 ARE REMOVED, AND L1-L4 ARE REPLACED WITH JUMPER WIRES

- NOTES
- INDUCTANCE IN UH.
 - CAPACITANCE IN UF.
 - RESISTANCE IN OHMS.
 - ALL RESISTORS ARE 1/2 WATT, 1%.
 - 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
 - SHEET NUMBER (2/A1) CONTINUATION SYMBOL

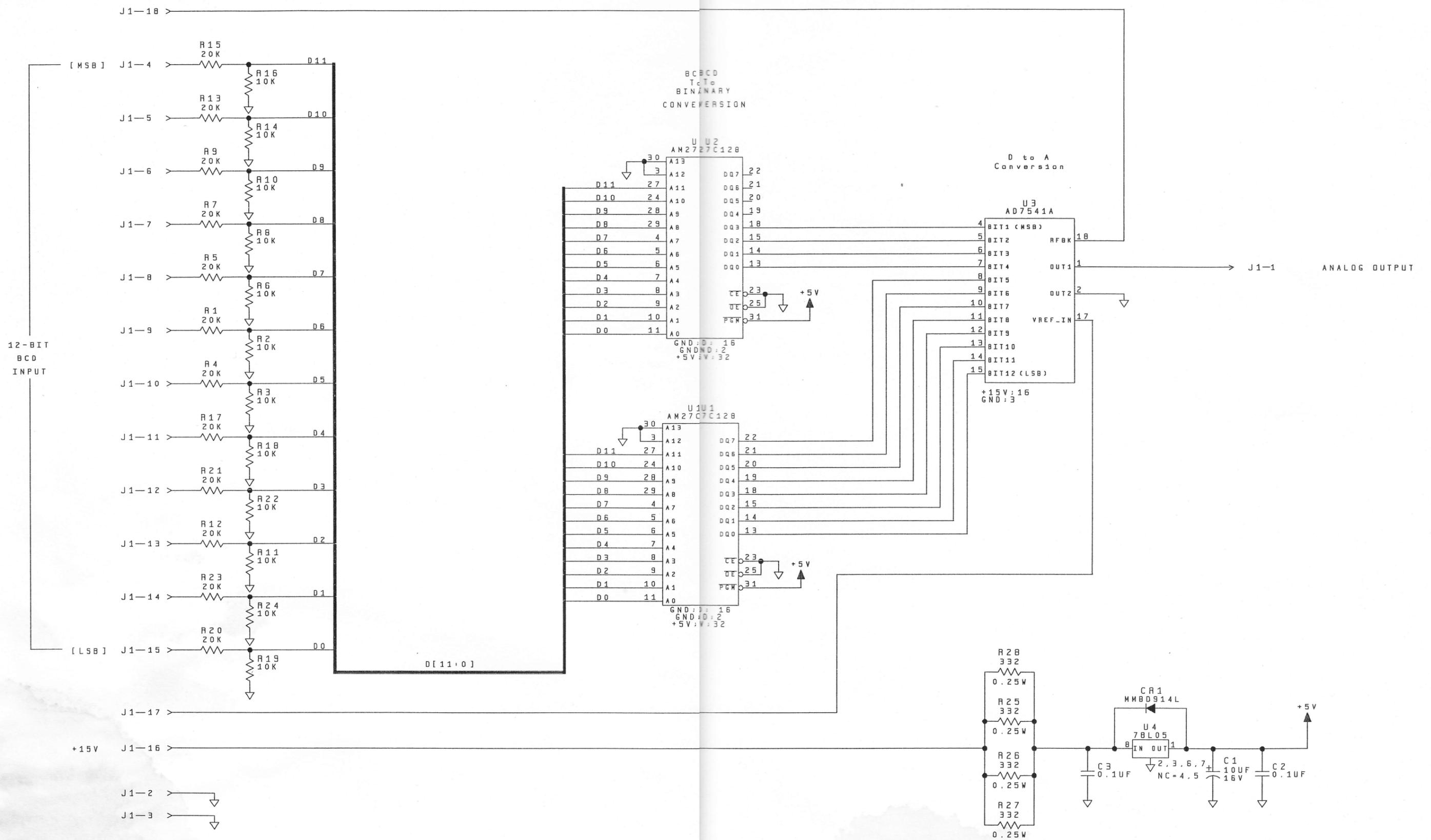
REV	DATE	ENG
LTR	ZONE	DATE
G		08-15-03
MAB		BAK
REVISE SHEET 2		
H		04-20-05
MAB		BAK
REVISE SHEET 2		



ECO NUM	4944B	HARRIS CORPORATION	DRAWN BY	D. DAVIDSON	TITLE	SCH. ANALOG INPUT
		BROADCAST SYSTEMS	DATE	1-12-99		
		P.O. BOX 4290	ENG	T. HOLLENBERG		
		QUINCY, ILLINOIS 62305	CHK	T. HOLLENBERG		
			PRJ	T. HOLLENBERG		
			ENG	S. RUSSELL		
			D	SHEET 1 OF 2	DWG #	843-5400-447
					REV	H



NOTES	4. INDUCTANCE IN UH.	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NUM	HARRIS CORPORATION BROADCAST SYSTEMS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY D. DAVIDSON DATE 1-12-99 ENG CHK T. HOLLENBERG PROJ ENG T. HOLLENBERG RFS ENG S. RUSSELL	TITLE SCH. ANALOG INPUT
	3. CAPACITANCE IN UF.		G		08-15-03	MAB	BAK	4944B			
	2. RESISTANCE IN OHMS.		DEL	CB5, REV C117, R58, 59, 90							
	1. ALL RESISTORS ARE 1/2 WATT, 1%.		H		04-20-05	MAB	BAK	51283			
UNLESS OTHERWISE NOTED:	5. SHEET NUMBER ZONE (2/A1) CONTINUATION SYMBOL									DWG # 843-5400-447	REV H



- 4. INDUCTANCE IN UH.
- 3. CAPACITANCE IN UF.
- 2. RESISTANCE IN OHMS.
- 1. ALL RESISTORS ARE 0.125W.1%

- 6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
- 5. SHEET NUMBER ZONE CONTINUATION SYMBOL (2/A1)

REV	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
A			05-04-2001	BAR	BAR	NEW DWG



HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY	B ROBERTSON
DATE	05-04-2001
ENG CHK	A DELEON
PROJ ENG	B ROBERTSON
OFFS ENG	M RUSSELL
D	SHEET of 1

TITLE	PWA, AD7525KN REPLACEMENT FOR SX TRANSMITTERS
DWG #	843-5400-641
REV A	

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