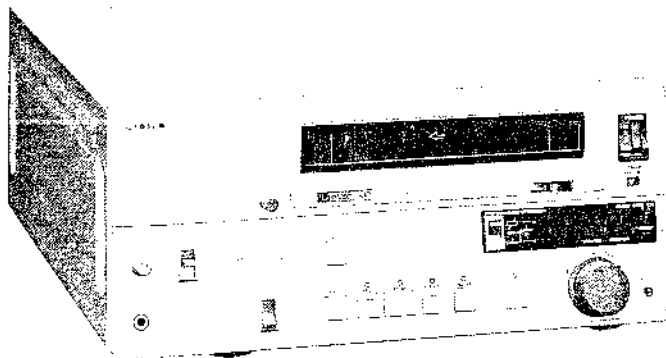


Umatic **SP**

VIDEO CASSETTE PLAYER

VP-9000

VOL-2



SONY
SERVICE MANUAL

SPECIFICATIONS

System		Other functions	
Recording system	Rotary 2-head helical scan Luminance: fm recording Color signal: converted subcarrier direct recording	Memory backup of programmed operation	3 years from shipment
Video signal system	EIA standards, NTSC color	Pause	A still picture is obtained with long pause function
Video		Search	Still, $\frac{1}{30}$ to 5 times normal speed in both forward and reverse directions With RM-580 and RM-500: picture search with 8 times normal speed (both KSP and KSP-S tapes)
Outputs	VIDEO OUT 1, 2 (BNC type) $\times 1$ each 1.0 Vp-p ± 0.2 Vp-p, 75 ohms, unbalanced sync negative TV (8-pin) $\times 1$	Tracking control	Possible
Horizontal resolution	SP mode recording: 330 lines (both B/W and color) Conventional recording: 250 lines (both B/W and color)	Skew control	Possible
S/N	SP mode Color: more than 46 dB Luminance (Y): more than 48 dB Conventional format Color: more than 46 dB (color) B/W: more than 48 dB	Sync system	Automatic switching between internal and external
Subcarrier input	SC IN (BNC type) $\times 1$ 1 Vp-p (0.5 to 3 Vp-p), 75 ohms, unbalanced	Dropout compensator	Built-in
Sync signal input	SYNC IN (BNC type) $\times 1$ 2.5 Vp-p (1 to 5 Vp-p), 75 ohms, unbalanced RF OUT (OFF TAPE) $\times 1$ 0.5 (0.3 to 1.0 Vp-p) Vp-p, 75 ohms, unbalanced	Tape transport	
Audio		Tape speed	95.3 mm/sec.
Outputs	AUDIO LINE OUT CH-1/L, CH-2/R (XLR 3-pin male) $\times 1$ each +4 dB (at 600 ohm load), balanced AUDIO MONITOR (phono jack) $\times 1$ -5 dB (at 47 k ohm load) TV (8 pin) $\times 1$ HEADPHONES (stereo phone jack) For 8-ohm headphones Level adjustable (from -26 to -46 dB)	Playback time	Approx. 60 minutes (with KSP-60)
S/N	With Dolby NR off 52 dB (KSP, KSP-S tapes) 50 dB (KCA, KCS tapes) (both channel 1 and 2 at 3% distortion)	Fast forward and rewind time	Within 4 minutes (with KSP-60)
Frequency response	50 to 15,000Hz (both audio channel 1 and 2 with Dolby NR off)	Wow and flutter	Less than 0.18% RMS
		Tape compatibility	U-matic video cassette tapes
		Usable tapes	KSP, KSP-S, KCA, KCS type
		General	
		Power requirements	90 - 132 V AC, $\pm 10\%$, 48 - 64 Hz
		Power consumption	68 W (with the RM-580 and RFK-634)
		Operating position	Horizontal
		Storage temperature	-20°C to +60°C (-4°F to +140°F)
		Operating temperature	5°C to 40°C (41° to 104°F)
		Dimensions	424 \times 192 \times 492 mm (w/h/d) (16 $\frac{1}{4}$ \times 7 $\frac{1}{2}$ \times 19 $\frac{3}{8}$ inches) including projecting parts and controls
		Weight	Approx. 17 kg. (37 lb 8 oz)
		Supplied accessories	Operating instructions (1) RF modulator compartment cover (1)
		Design and specifications are subject to change without notice.	
		Optional accessories	
		BKU-701 computer interface board	
		FCG-700 frame code generator	
		RX-707 auto search control unit (for RS-232C interface)	
		RX-353, RX-303 auto search control unit (for 33-pin interface)	
		RM-690 remote control unit (for REMOTE connector)	
		RM-580, RM-500 remote control unit (for 33-pin interface)	
		RFK-634 RF kit	
		RMM-507 rack mount kit	
		RM-555 multi remote control unit	

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VOL-2

SECTION 13

SEMICONDUCTOR ELECTRODES

ここに記載されているIC、トランジスタ、ダイオードは、それぞれの機能を等価的に表わしたものです。したがって互換性を表わすものではありません。(互換性のない型名が併記されている事もあります。) 部品の交換をする時は、SPARE PARTS の章を参照して下さい。

ICs, transistors and diodes whoses functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual.

IC	PAGE	IC	PAGE	TRANSISTOR	PAGE
AN607P	13-3	MB88505P	13-9	2SA788	13-13
AN608P	13-3	MB88505PF	13-9	2SA771	13-13
		MB88525P	13-10	2SA844	13-13
BX366A	13-3			2SA933	13-13
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BX373A	13-3			2SA1115	13-13
BX373AL	13-3	NJM2043D-D	13-8	2SA1175	13-13
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BX389	13-3	NJM4558D-D	13-8	2SB733	13-13
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BX1140L	13-3	NJM78L??A	13-8	2SC403SP	13-13
BX1248	13-3			2SC1569	13-13
BX1248L	13-3	SN16913P	13-12	2SC1740	13-13
BX1265	13-3	SN74HC244N	13-8	2SC1740S	13-13
BX1265L	13-3			2SC1826	13-13
BX1257	13-3	TA7060AP	13-11	2SC1986	13-13
BX1257L	13-3			2SC2458	13-13
BX3915A	13-3	TC4001BF	13-4	2SC2603	13-13
		TC4001UBP	13-4	2SC2603G	13-13
CD4001AE/BE	13-4	TC4009UBP	13-11	2SC2712	13-13
		TC4011BP	13-11	2SC2771	13-13
CX134A	13-4	TC4016BPHB	13-11	2SC2785E	13-13
		TC4030BP	13-11	2SC2785F	13-13
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CX805	13-5	TC4069UBF	13-11		
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		μ PC358C	13-12		
LA4550	13-7	μ PC339C	13-12		
		μ PC393C	13-8		
M54517P	13-7	μ PC4558C	13-8		
M54529P	13-7	μ PD4030BC	13-11		
M54543L	13-7	μ PD4053BC	13-11		
MB88201-173N	13-8				

等価回路はICメーカーのData Bookに従いました。

The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

SEMICONDUCTOR INDEX

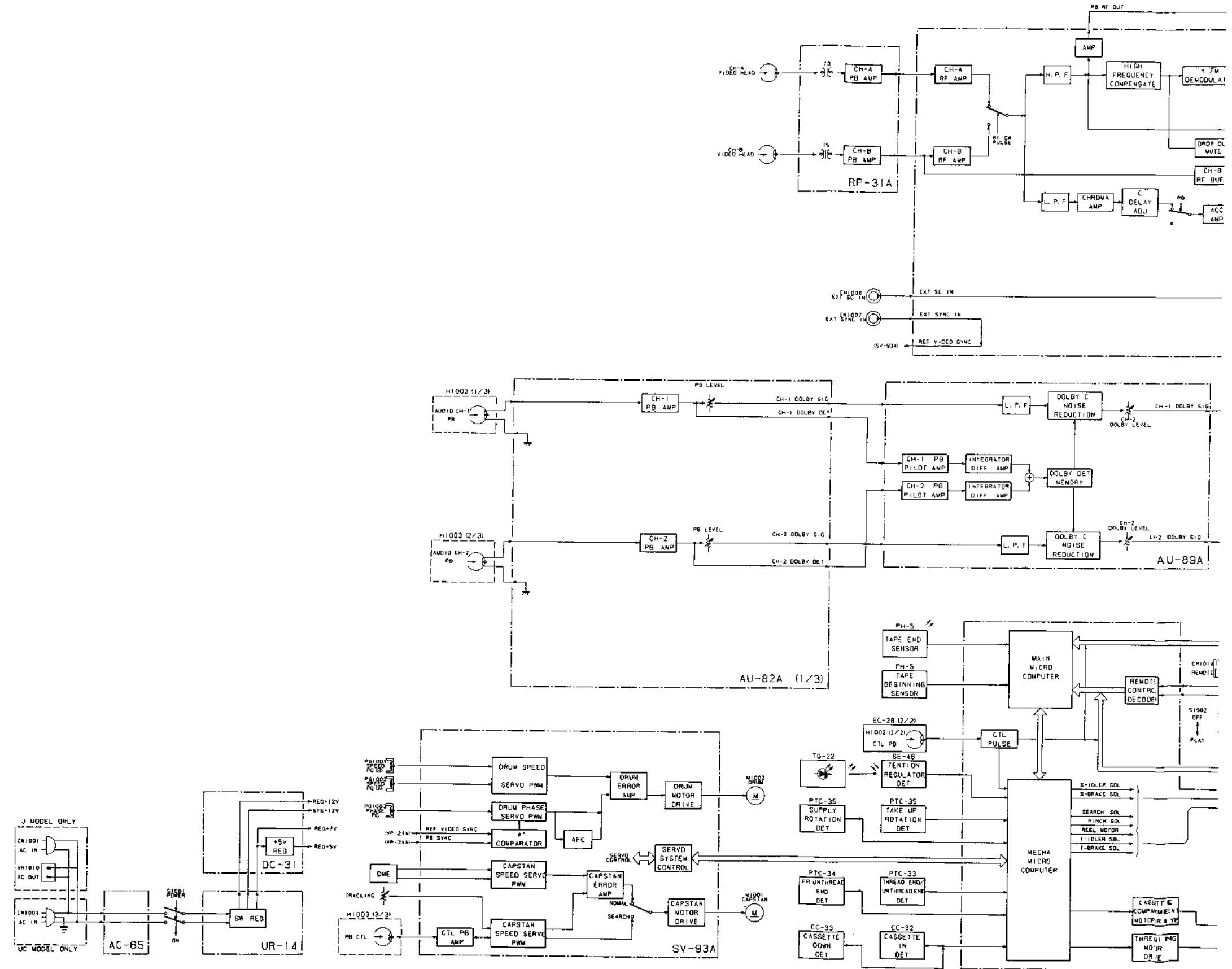
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2SD894	13-13
2SD998	13-13
2SD1111	13-13
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2SK105A	13-13
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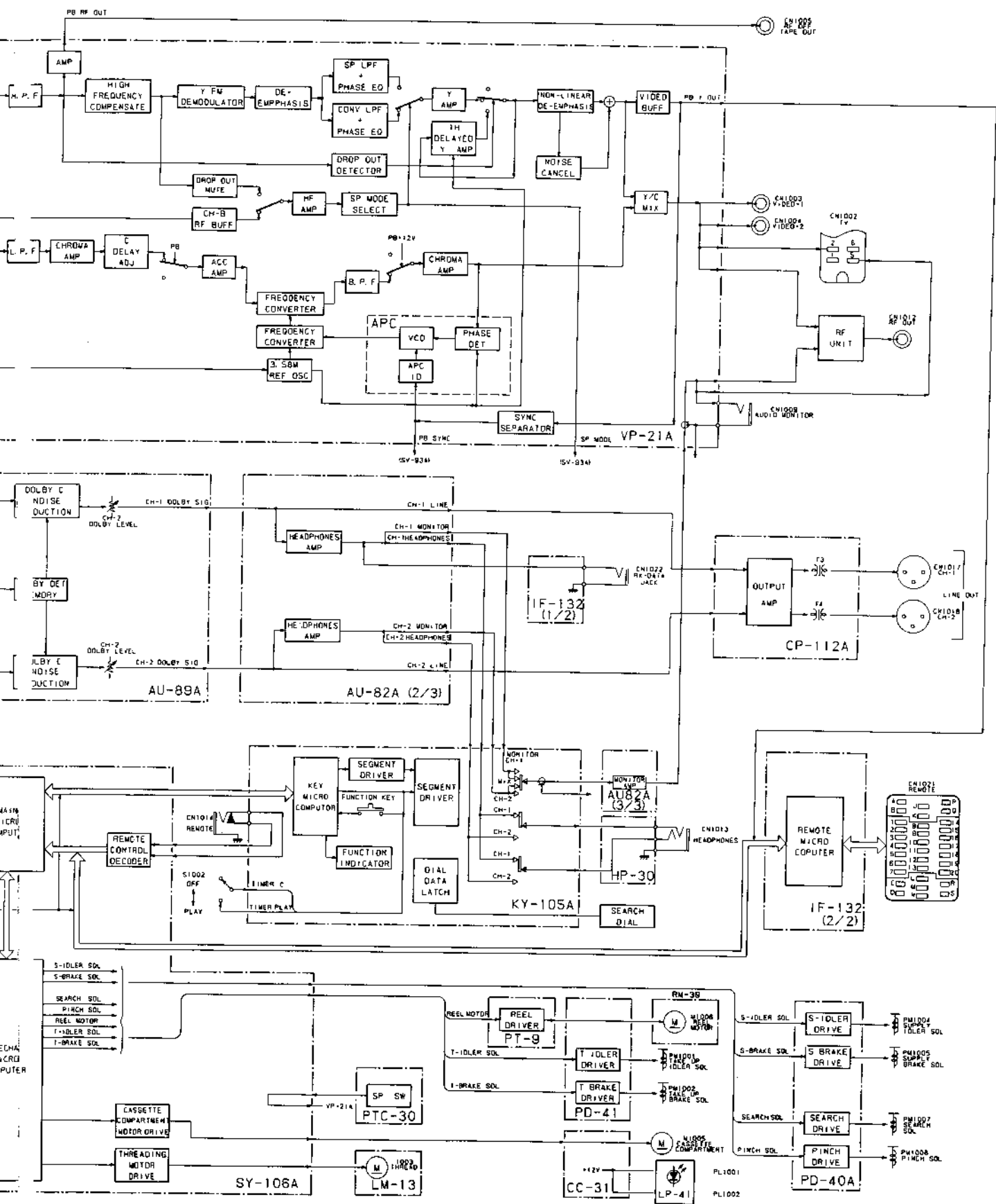
SECTION 12
BLOCK DIAGRAM

OVERALL
BLOCK DIAGRAM

OVERALL



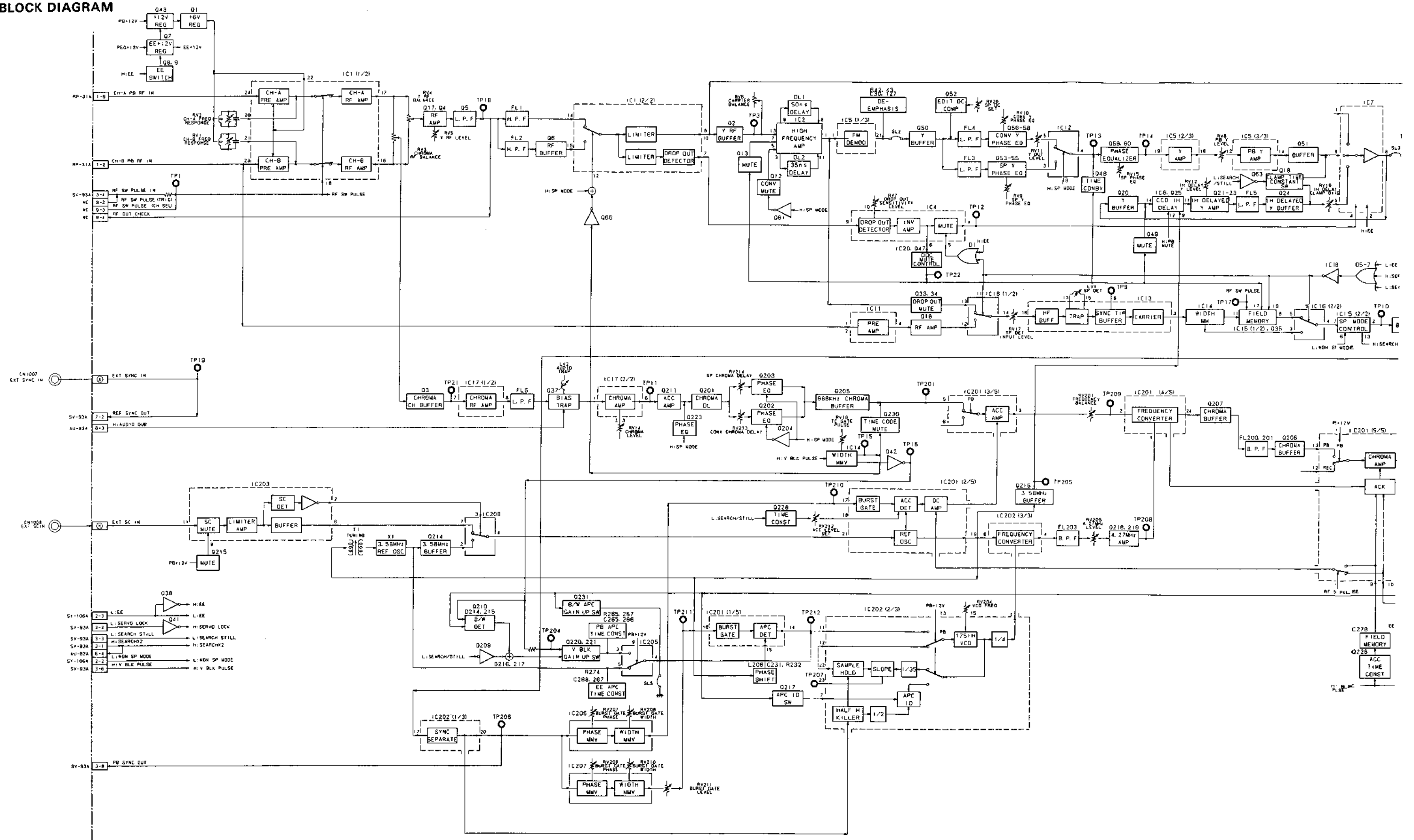
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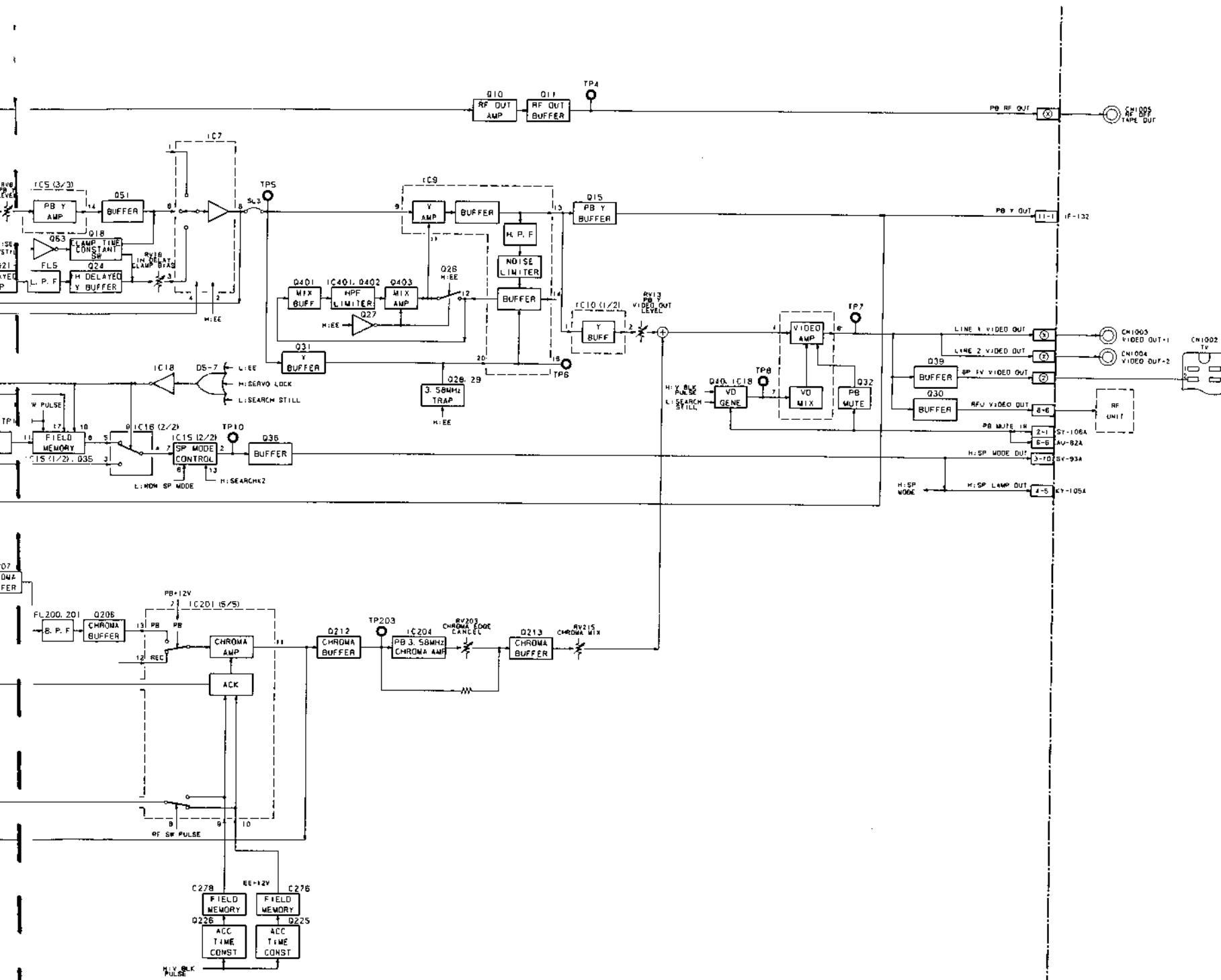


OVERALL
VP-8000

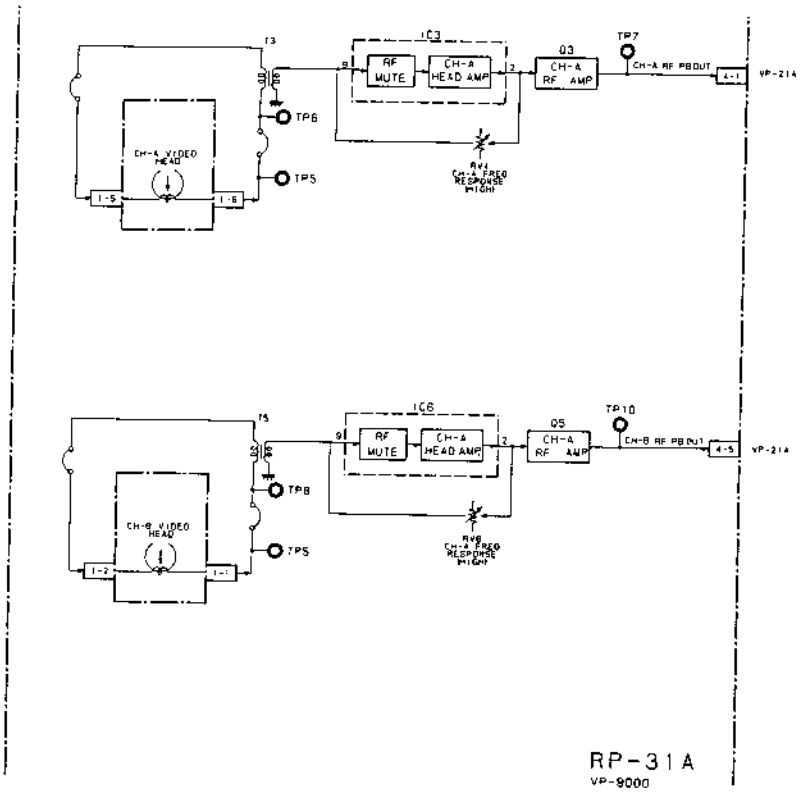
VIDEO VIDEO

**VIDEO SYSTEM
BLOCK DIAGRAM**

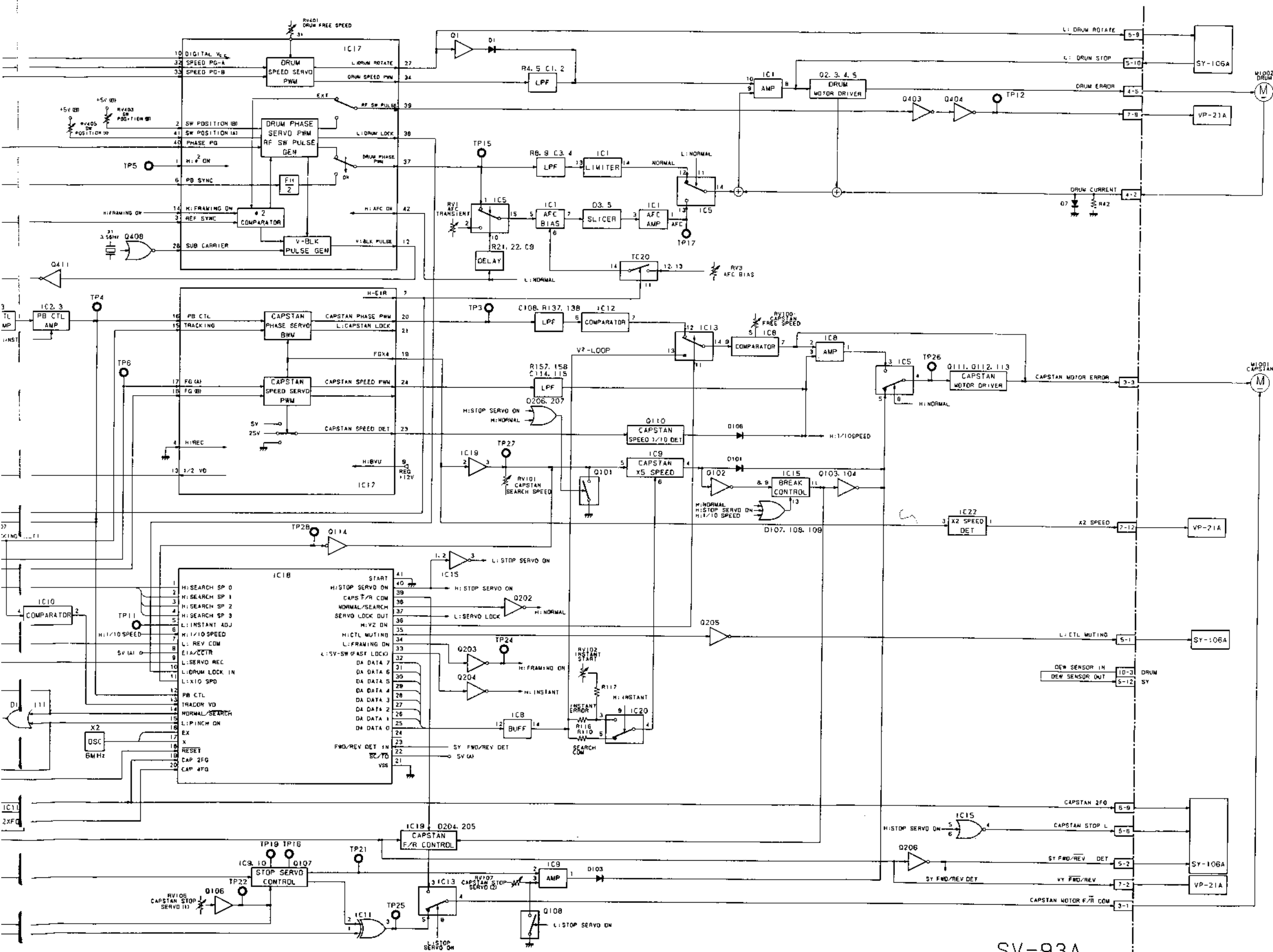




VP-21A
VP-9000

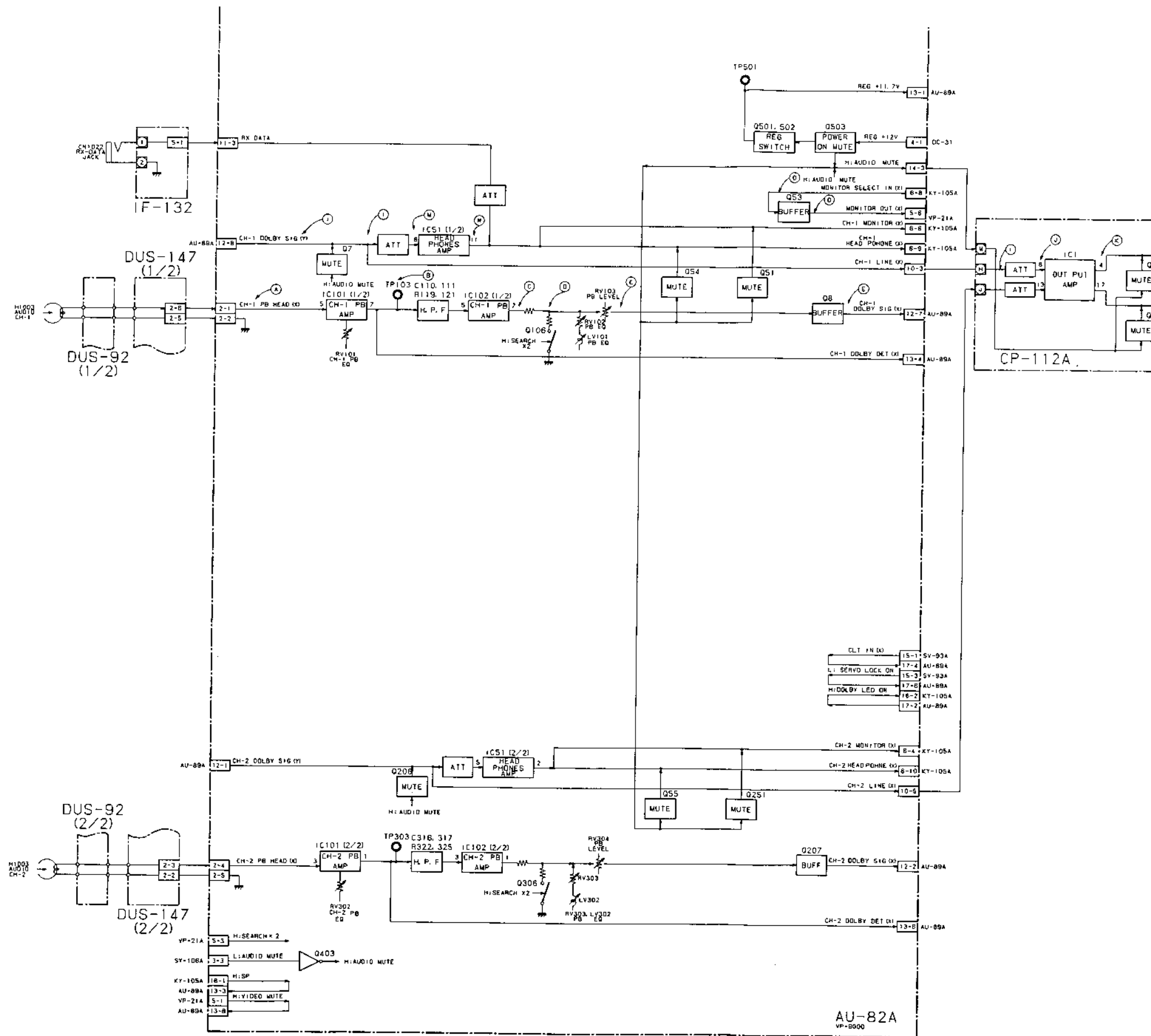


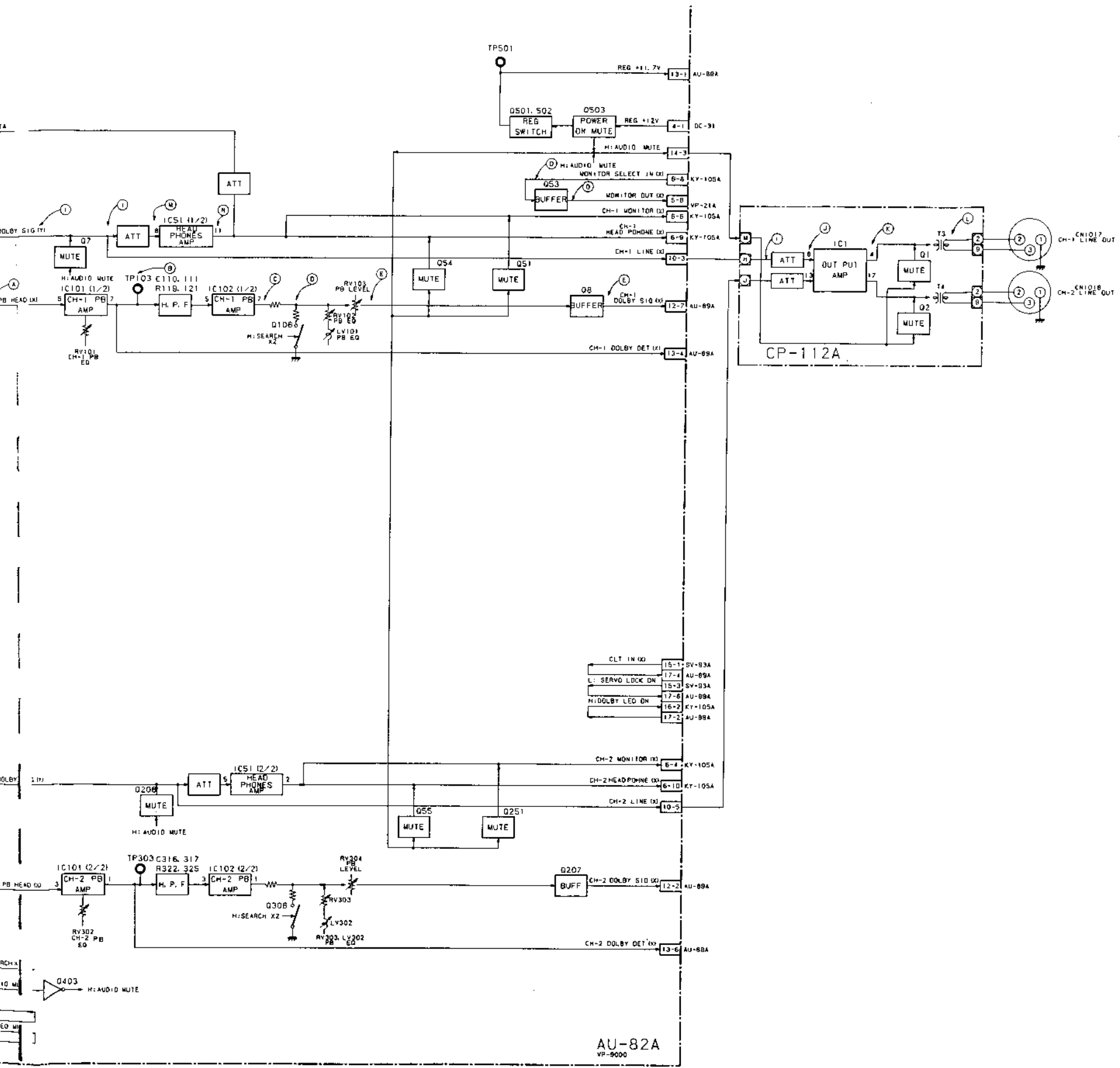
RP-31A
VP-9000



SV-93A
VP-9000

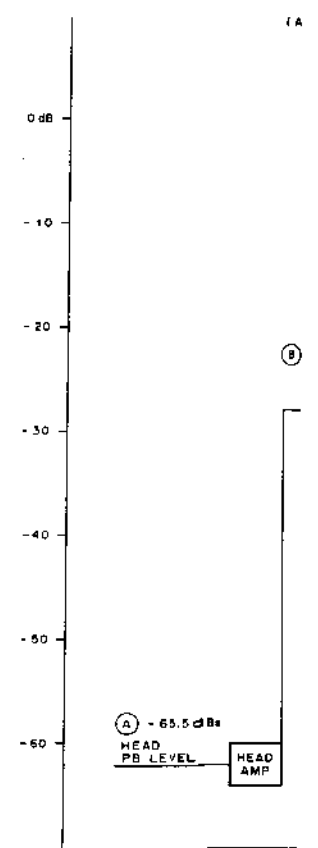
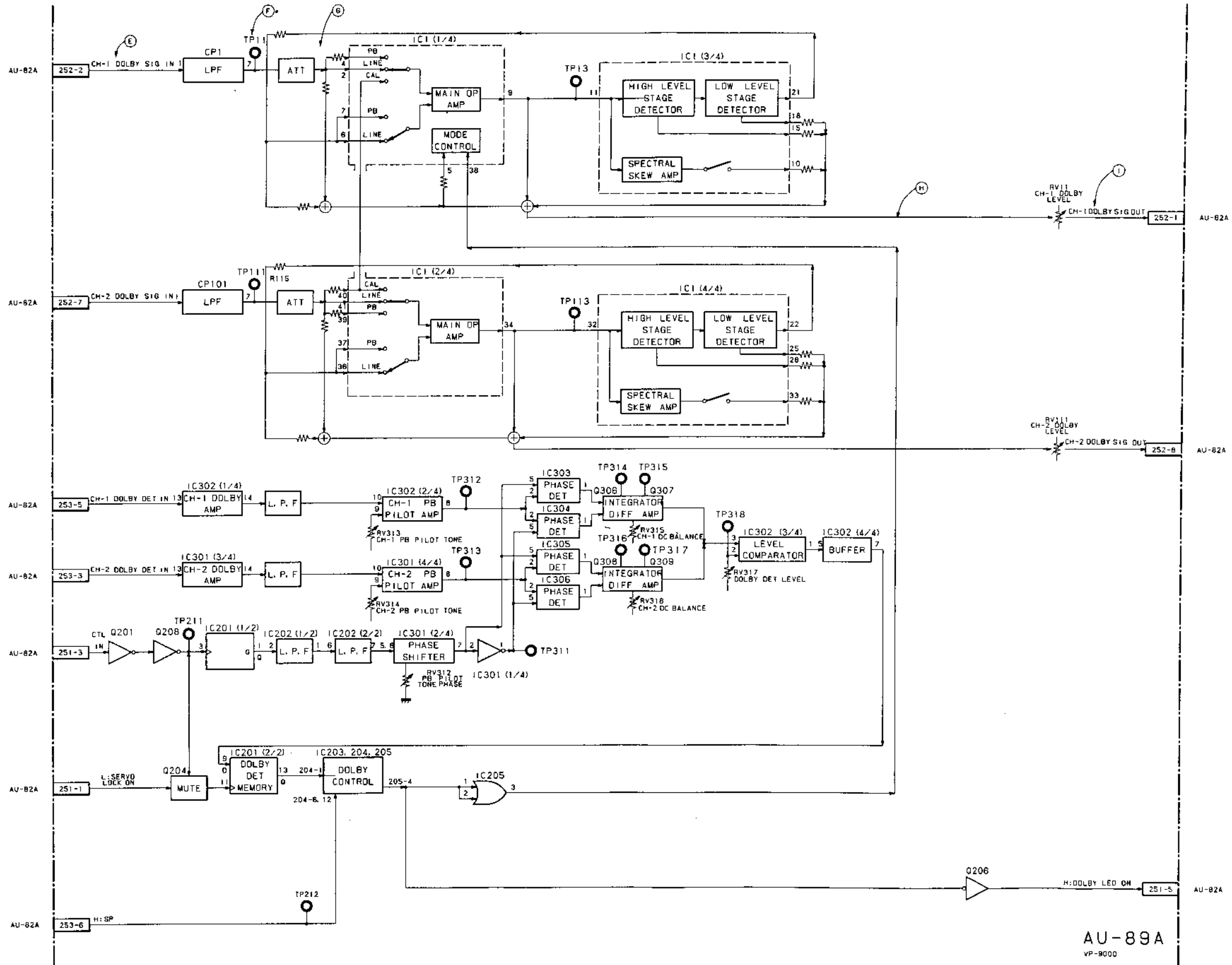
AUDIO SYSTEM
BLOCK DIAGRAM



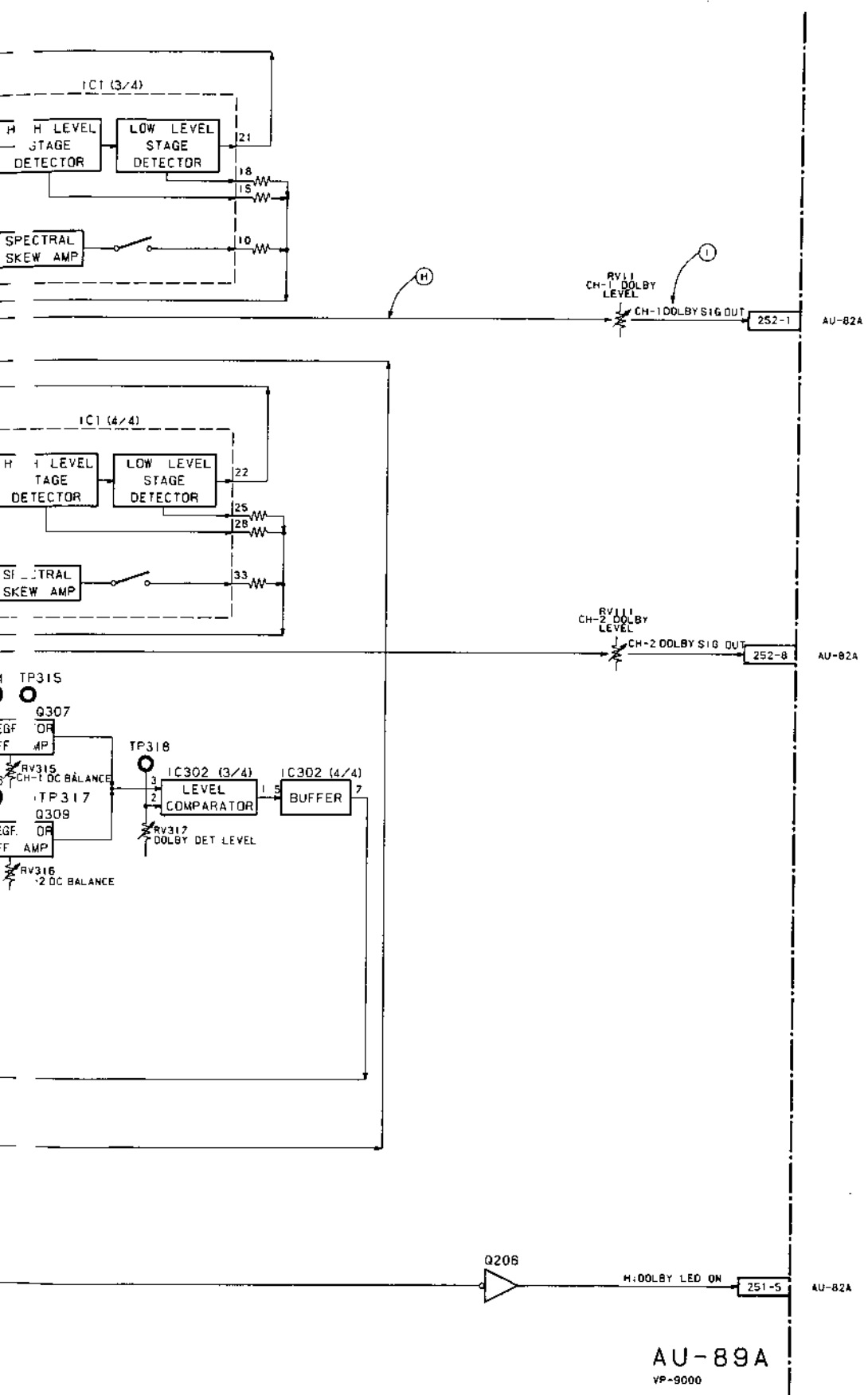


AUDIO AUDIO

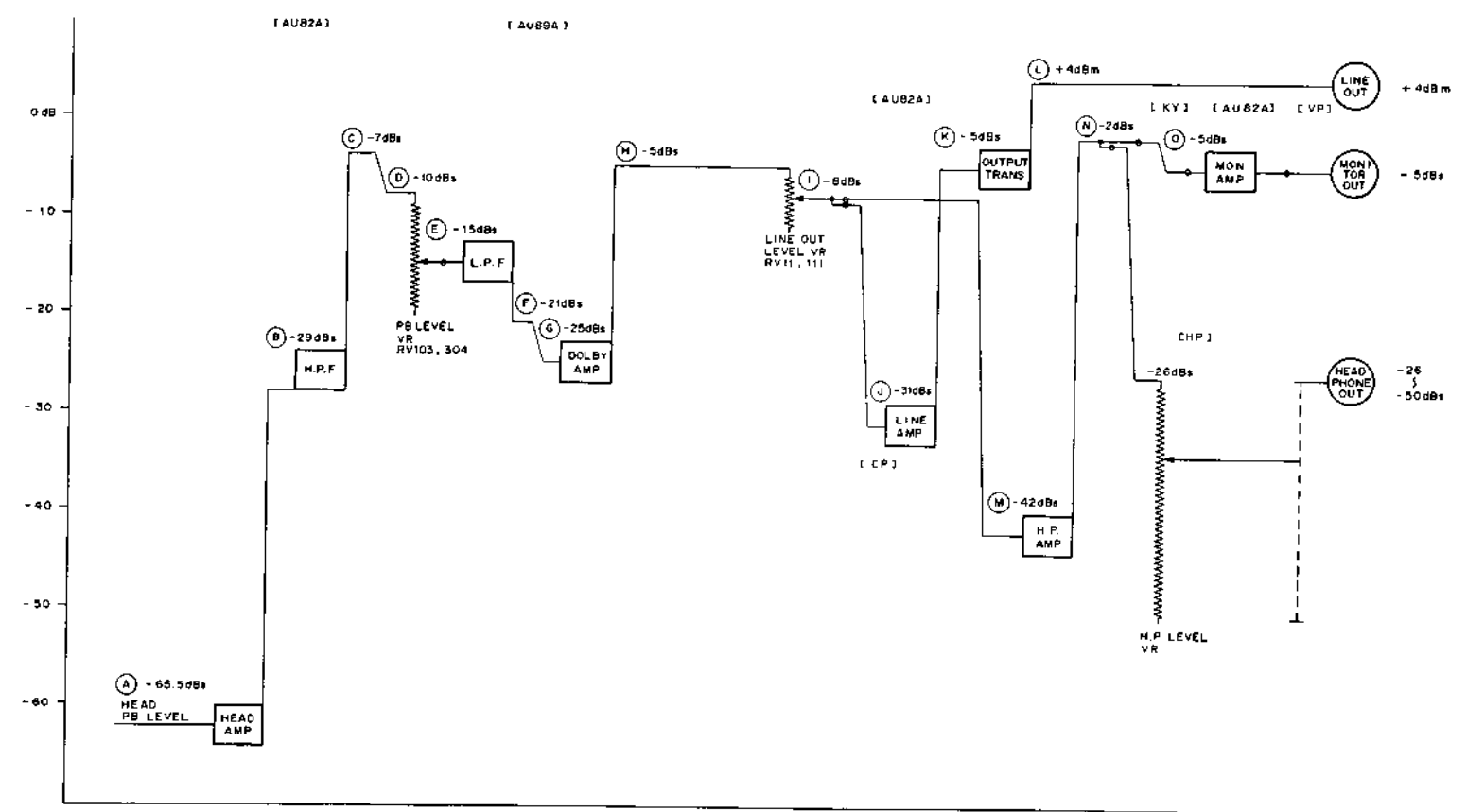
**AUDIO SYSTEM
BLOCK DIAGRAM**



AU-89A
VP-9000

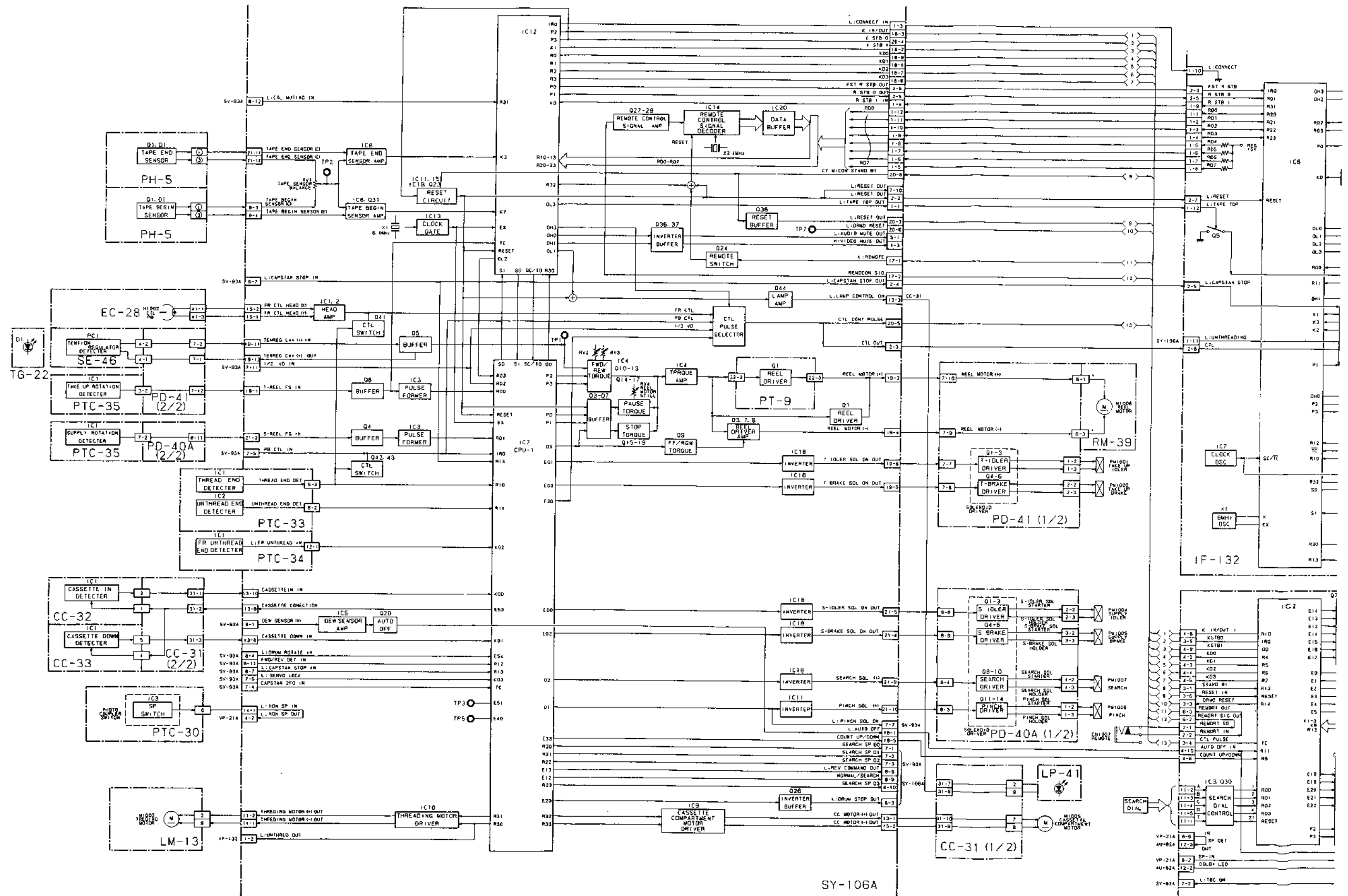


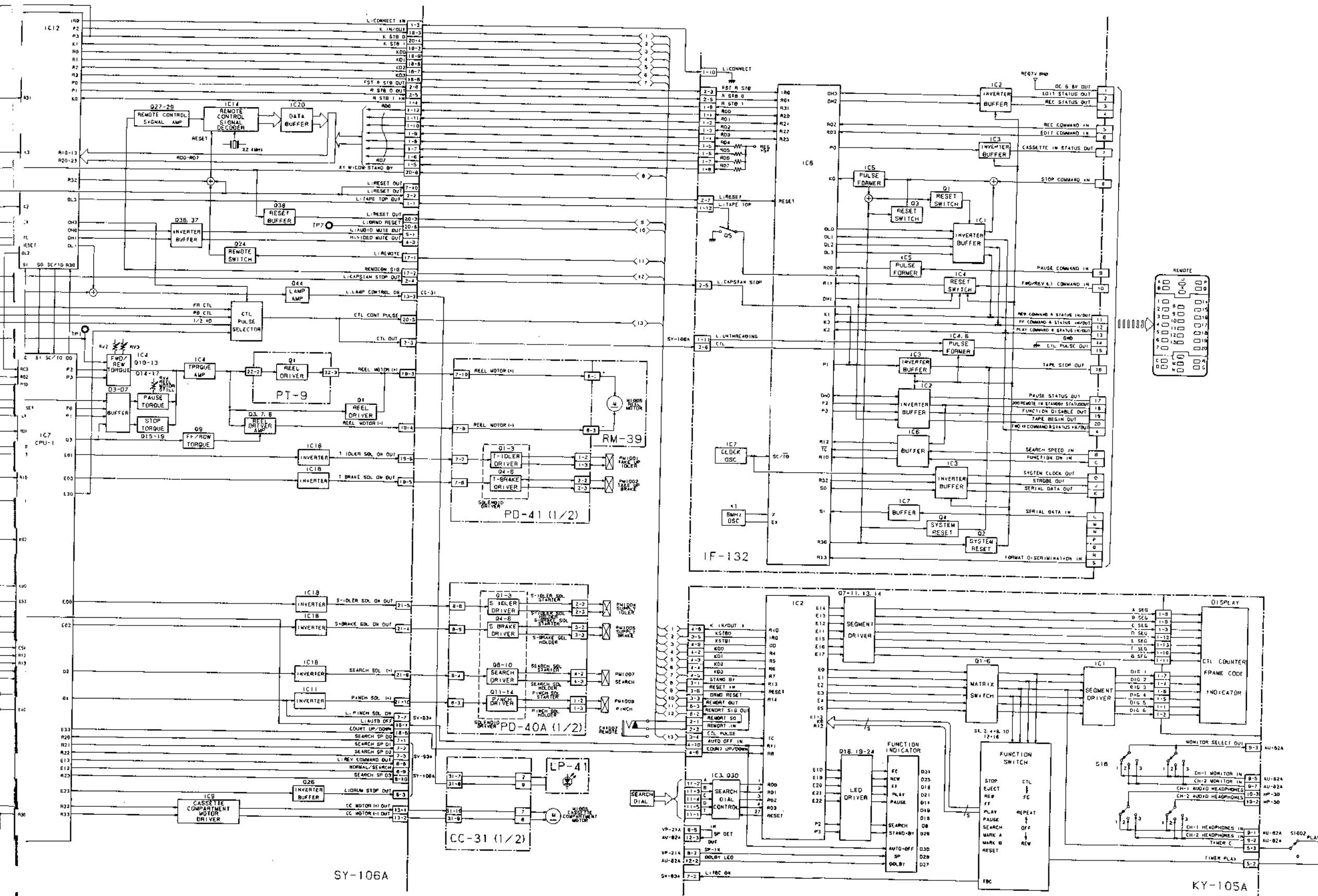
Audio Level Diagram PB系



SYSTEM CONTROL
BLOCK DIAGRAM

UC; S/N 10001 thru 11700
J; S/N 10001 thru 10200



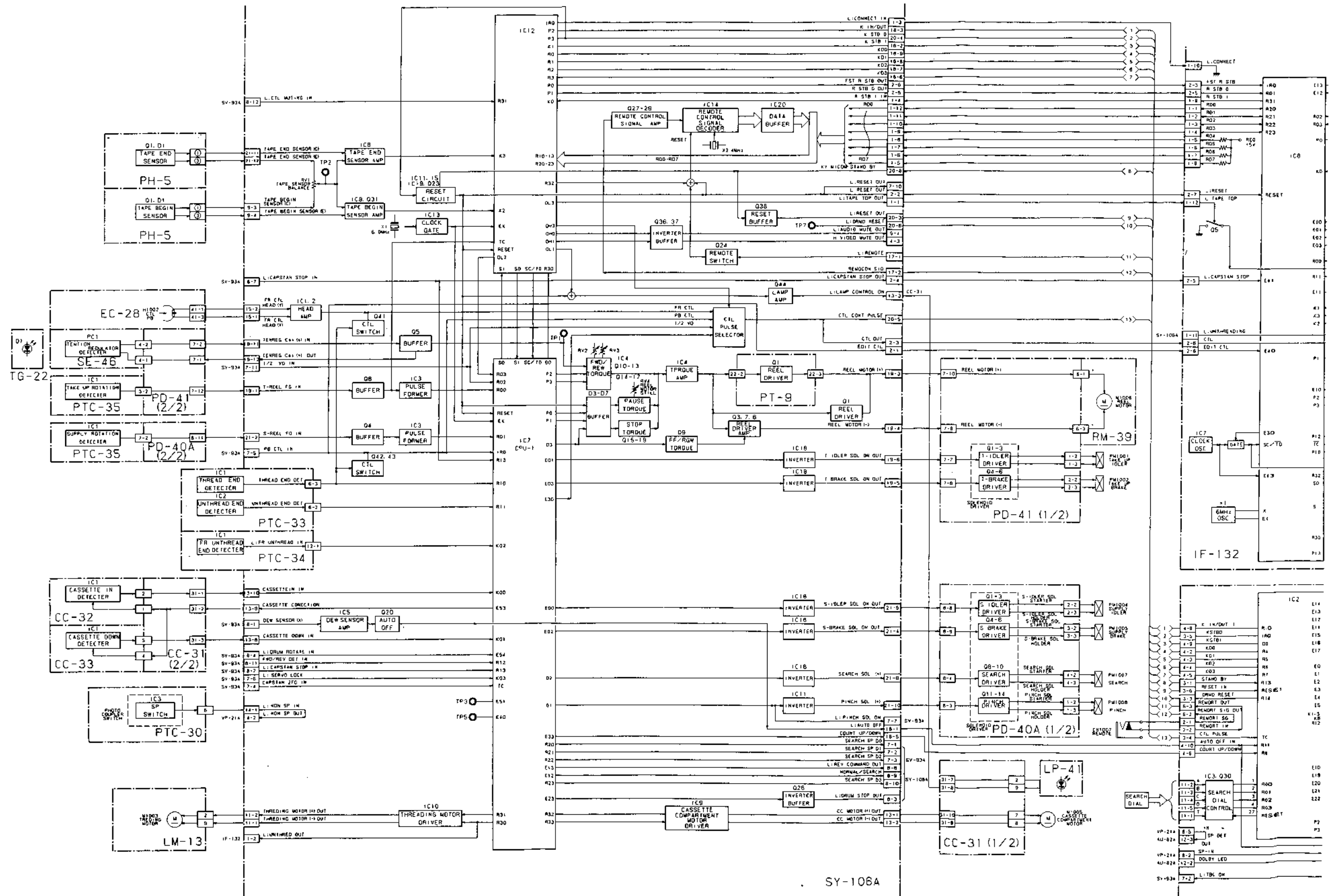


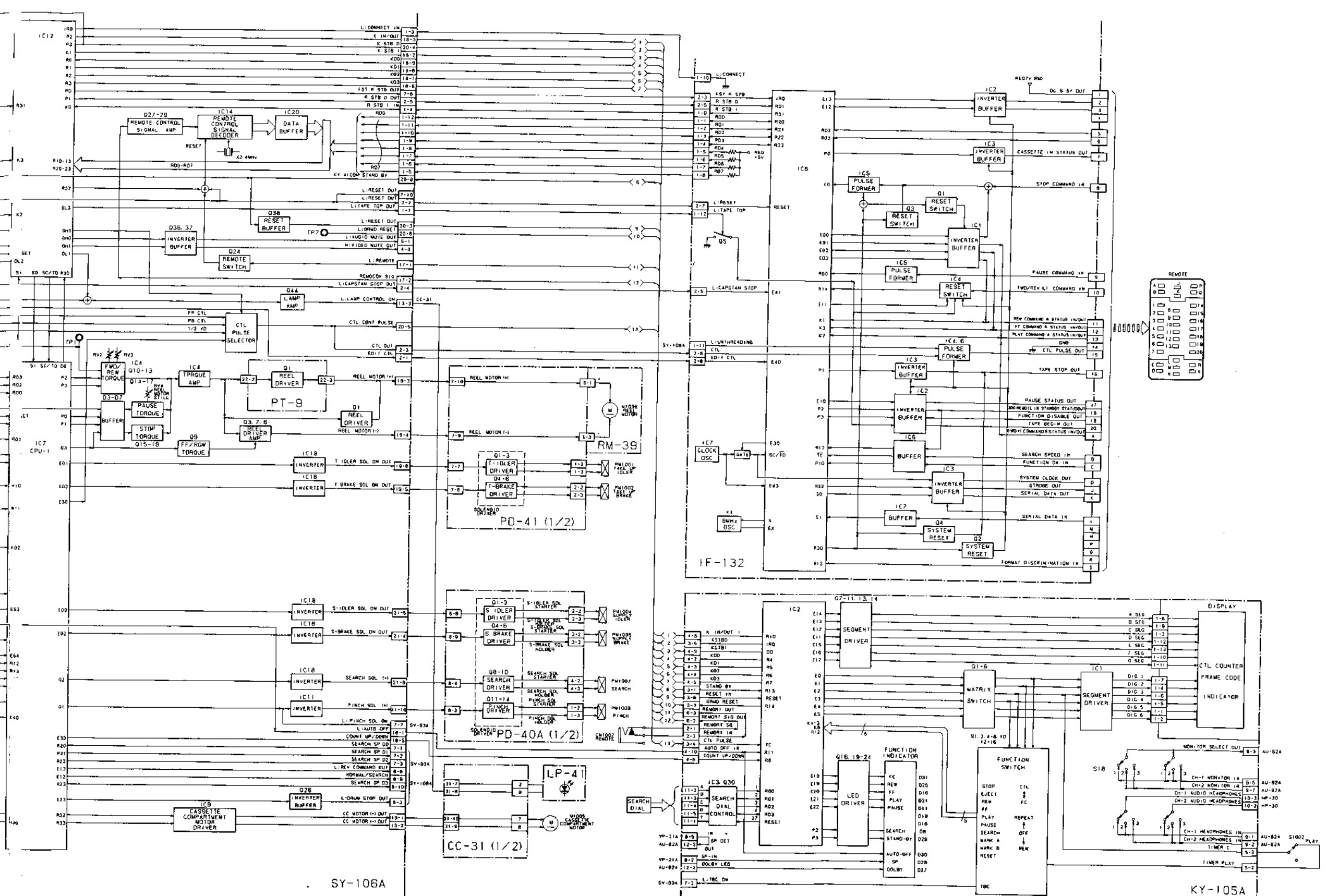
SY-106A

KY-105A

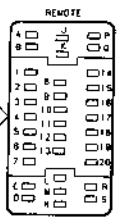
SYSTEM CONTROL
BLOCK DIAGRAM

UC; S/N 11701 and higher
J; S/N 10201 and higher

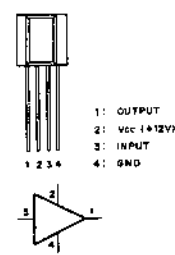




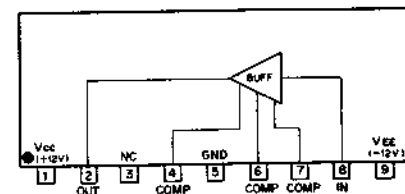
SY-106A



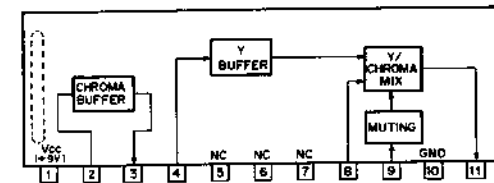
AN607P (MATSUSHITA)
AN608P (MATSUSHITA)
WIDE BAND AMPLIFIER
— PRINTED SIDE VIEW —



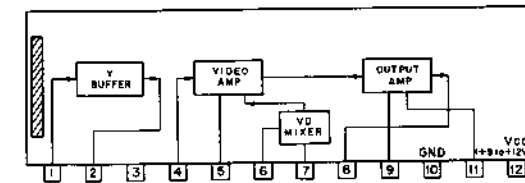
BX366A (SONY)
BX368AL (ROHM)
VIDEO BUFFER
— SIDE VIEW —



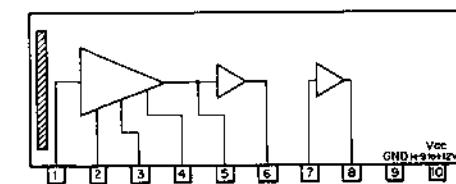
BX373A (SONY)
BX373AL (ROHM)
MIX AMP
— REAR VIEW —



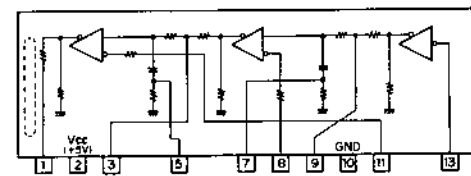
BX388 (SONY)
BX388L (ROHM)
VIDEO AMP/VD MIXER
— PRINTED SIDE —



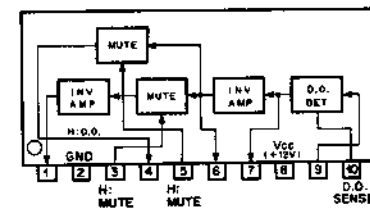
BX389 (SONY)
BX389L (ROHM)
VIDEO AMPLIFIER
— PRINTED SIDE —



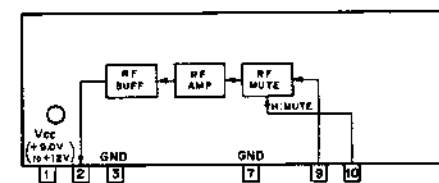
BX1140 (SONY)
BX1140L (ROHM)
HF AMP
— REAR VIEW —



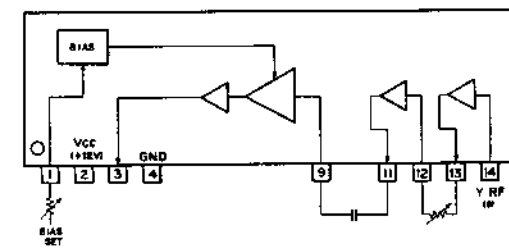
BX1248 (SONY)
BX1248L (ROHM)
DROPOUT DETECTOR
— PRINTED SIDE VIEW —



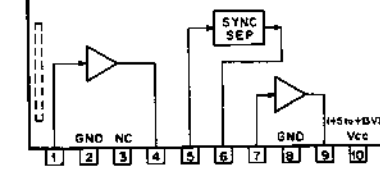
BX1265 (SONY)
BX1265L (ROHM)
VIDEO HEAD AMPLIFIER/MUTING
— PRINTED SIDE VIEW —



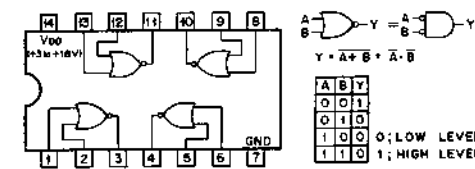
BX1257 (SONY)
BX1257L (ROHM)
Y-RF SIDE BAND EQUALIZER
— PRINTED SIDE VIEW —



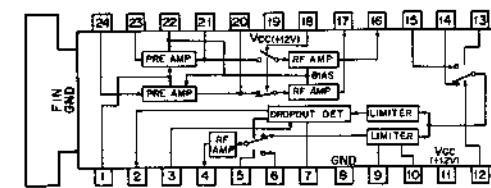
BX3915A (SONY)
SYNC SEPARATOR
— PRINTED SIDE —



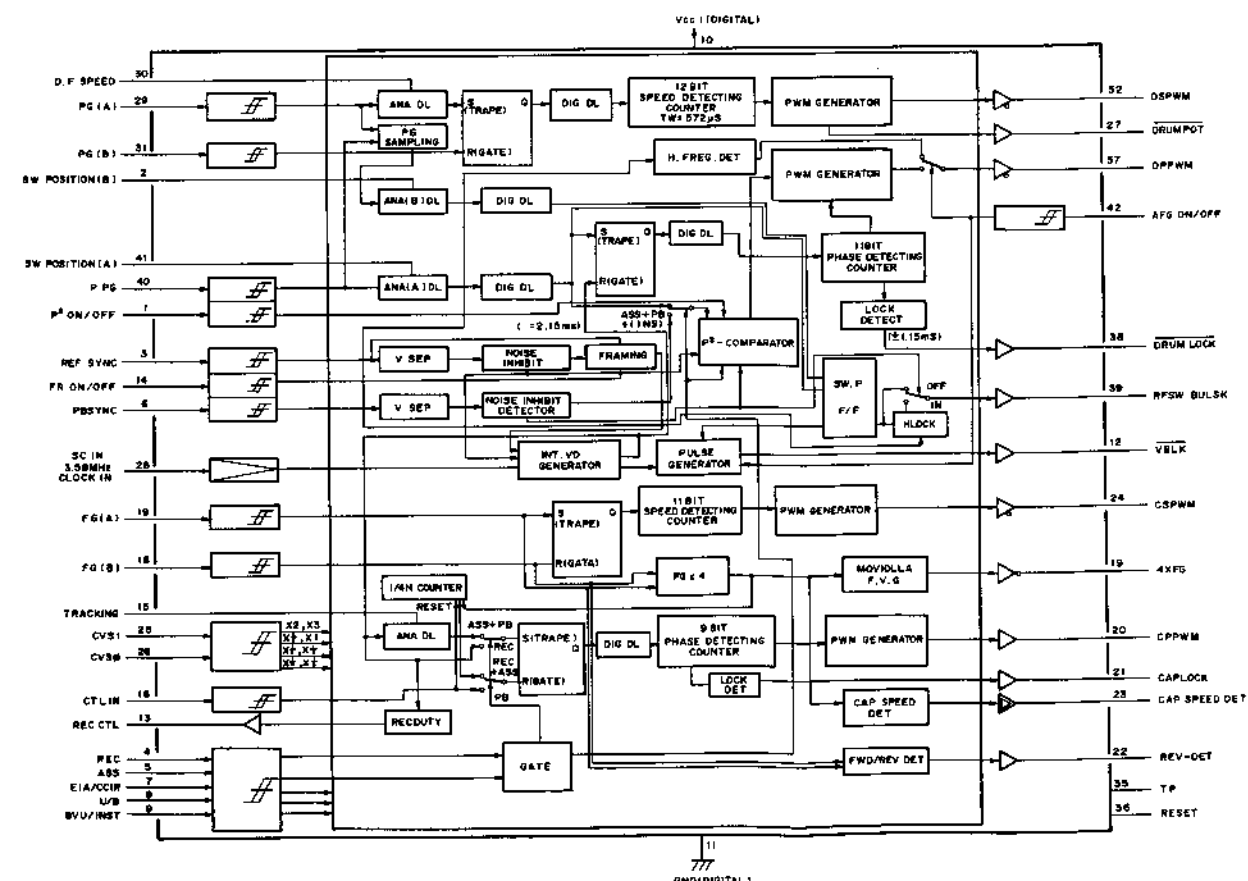
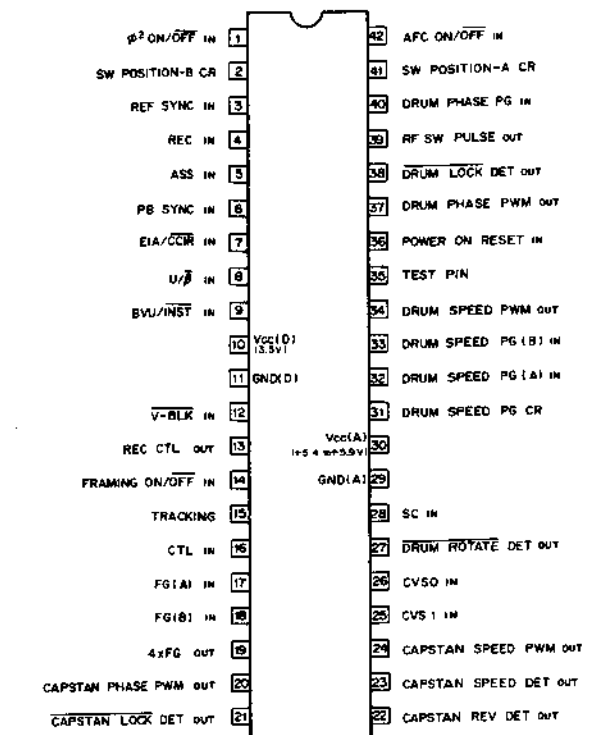
CD4001 AE/BE (RCA)
TC4001 BF (TOSHIBA) FLAT PACKAGE
TC4001 UBP (TOSHIBA)
C-MOS 2-INPUT NOR GATE
— TOP VIEW —

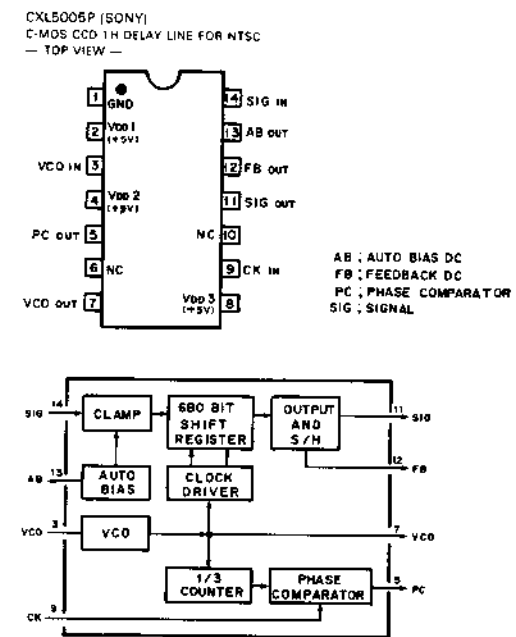
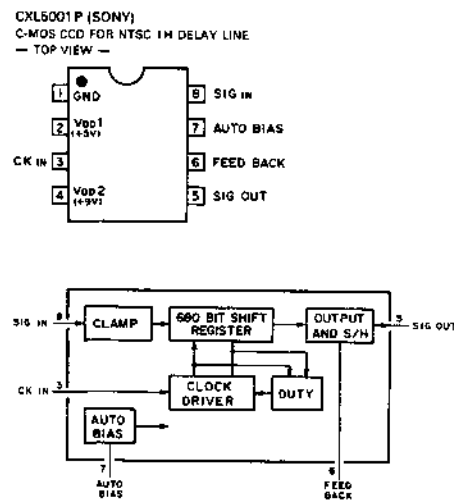
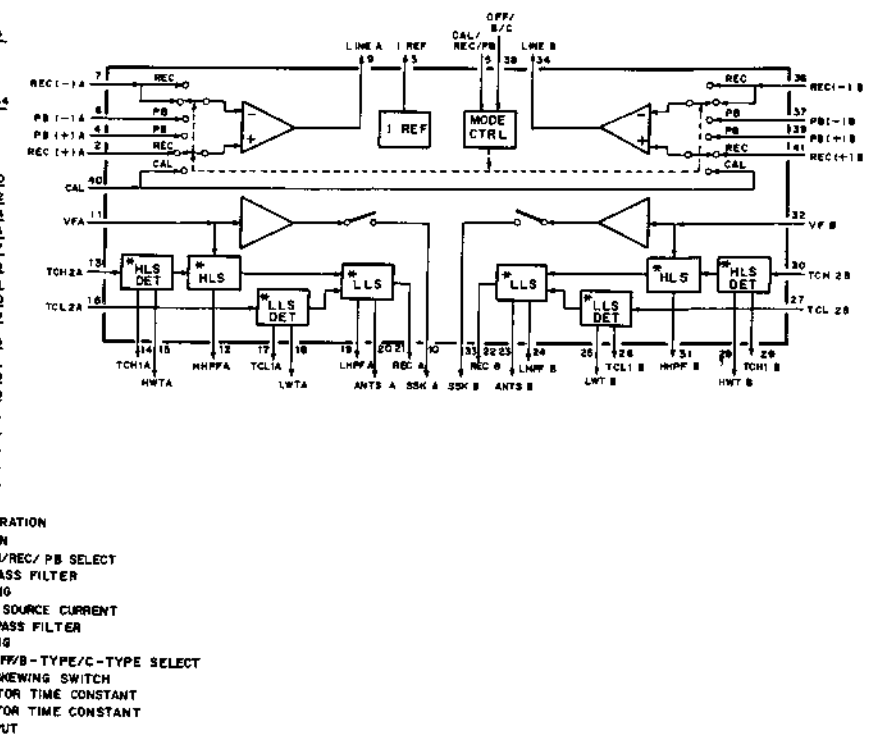
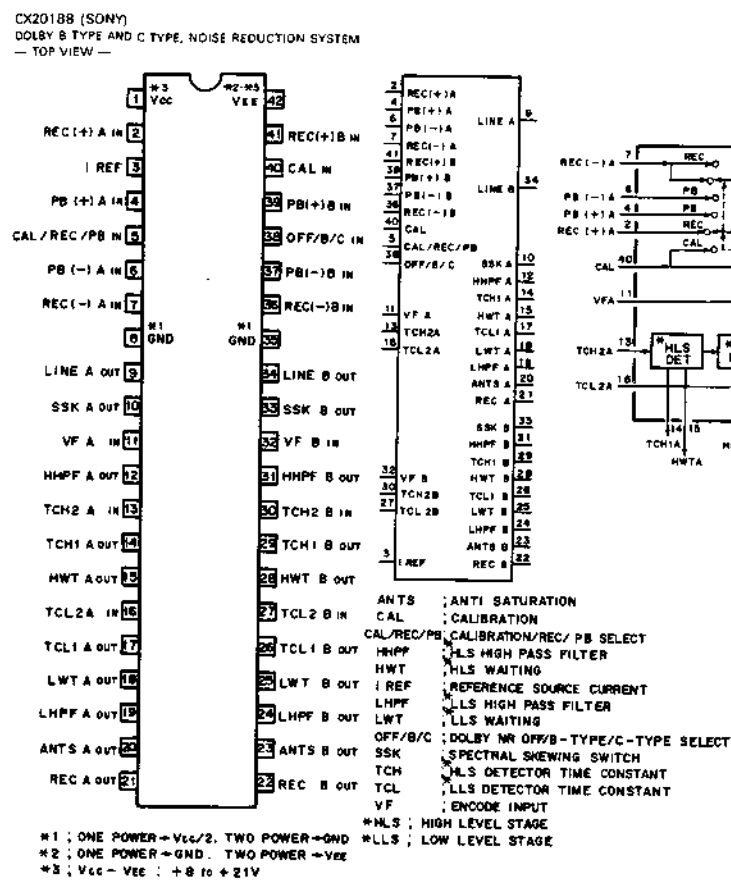
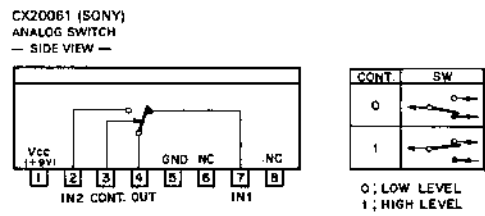
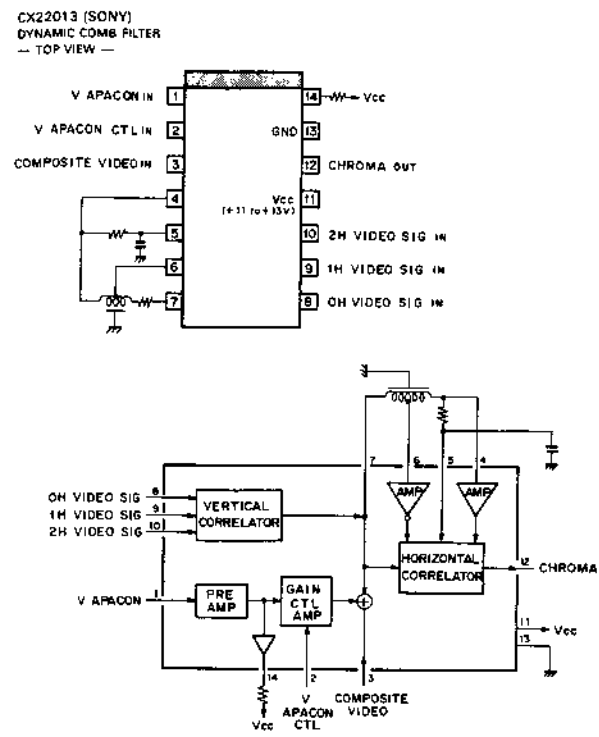
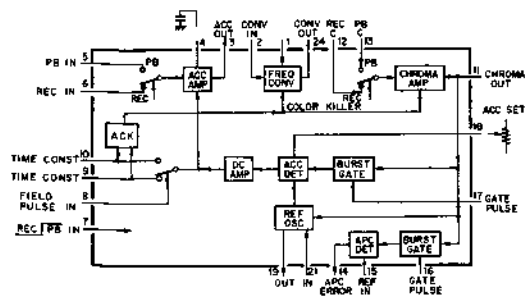
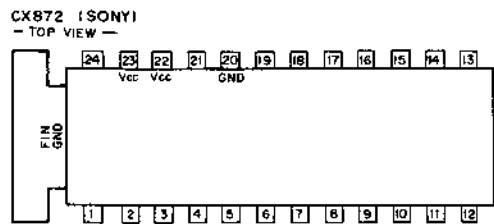
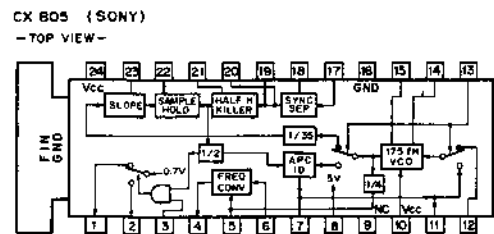
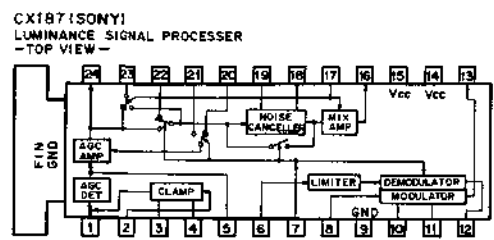
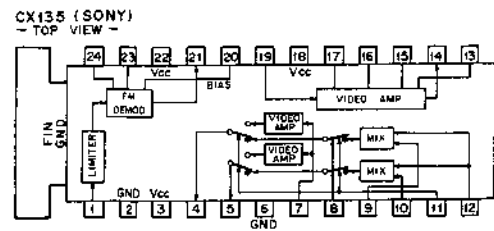


CX134A (SONY)
HEAD AMP/DROPOUT COMPENSATOR
— TOP VIEW —

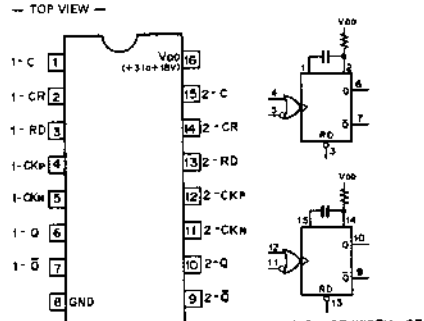


CX194B (SONY)
DRUM/CAPSTAN PWM SERVO
— TOP VIEW —

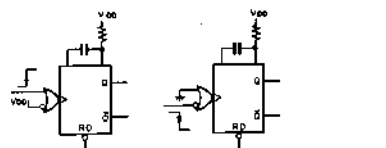




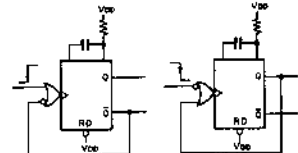
HD14538BP (HITACHI)
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE
MONOSTABLE MULTIVIBRATOR



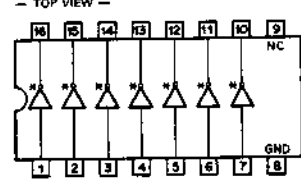
RETRIGGERABLE M.M.V.



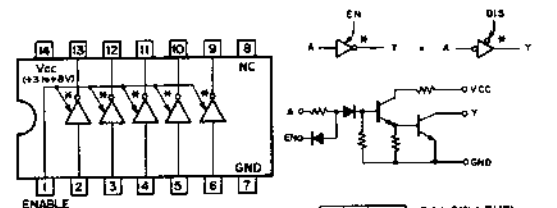
NON-RETRIGGERABLE M.M.V.



M54517P (MITSUBISHI)
INVERTER WITH OPEN-COLLECTOR
(DARLINGTON-CONNECTED TRANSISTOR ARRAY)



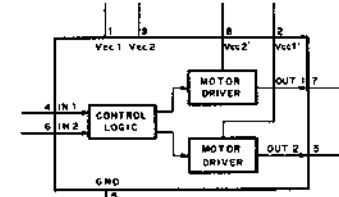
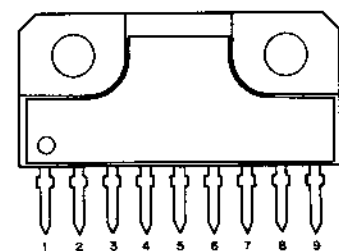
M54529AP (MITSUBISHI)
TRANSISTOR ARRAY



A	EN	Y
0	1	1
1	1	0
X	0	1

O: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
*: OPEN COLLECTOR

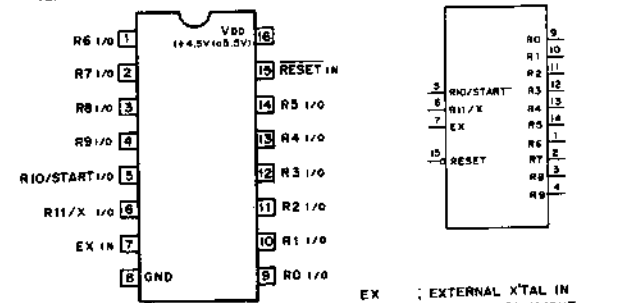
M54543L (MITSUBISHI)
BI-DIRECTIONAL MOTOR DRIVER



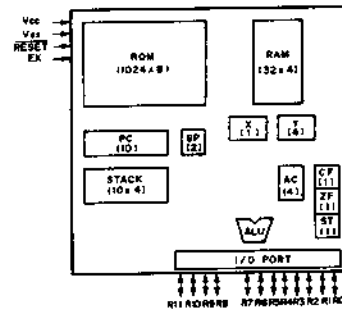
IN	OUT	MODE
1	2	2
0	2	2
1	0	0
0	1	0
1	0	1
1	0	0

O: LOW LEVEL
1: HIGH LEVEL
2: HIGH IMPEDANCE

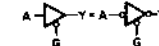
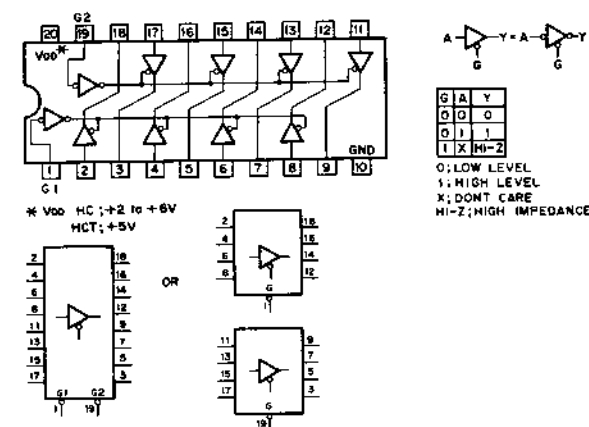
M88201-173N (FUJITSU)
C-MOS 4 BIT MICROCOMPUTER



EX: EXTERNAL XTAL IN
R0-R11: I/O PORT (R) IN/OUT
RESET: RESET IN
START: STANDBY RELEASE IN
R11/X: EXT CLOCK IN/INT CLOCK OUT



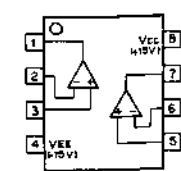
MC74HC244N (MOTOROLA)
SN74HC244N (TI)
TC74HC244P (TOSHIBA)
C-MOS BUS BUFFER WITH 3-STATE OUTPUT



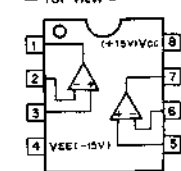
G	A	Y
0	0	0
0	1	1
1	X	Hi-Z

O: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
Hi-Z: HIGH IMPEDANCE

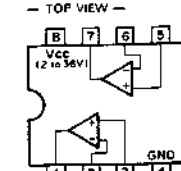
NJM2043D-D (JRC)
OPERATIONAL AMPLIFIER



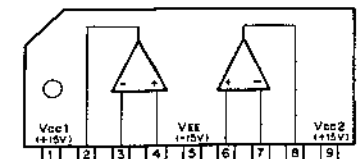
NJM4558D (JRC)
NJM4558D-D (JRC)
uPC4558C (NEC)
OPERATIONAL AMPLIFIER



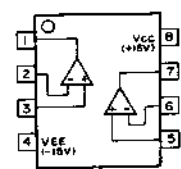
NJM2903D (JRC)
uPC393C (NEC)
VOLTAGE COMPARATOR



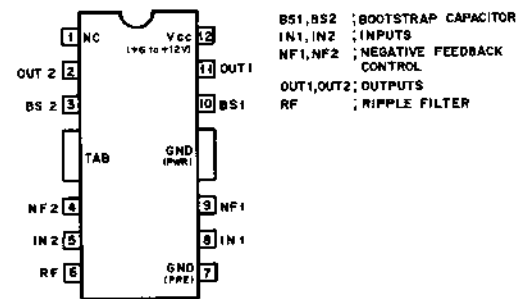
NJM4558S (JRC)
HIGH PERFORMANCE DUAL OPERATIONAL AMPLIFIER



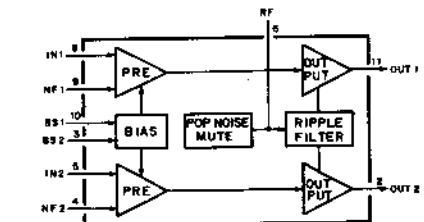
NJM4562D-D (JRC)
OPERATIONAL AMPLIFIER



LA4550 (SANYO)
2CH AF POWER AMP

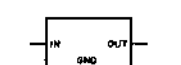


BS1, BS2: BOOTSTRAP CAPACITOR
IN1, IN2: INPUTS
NF1, NF2: NEGATIVE FEEDBACK CONTROL
OUT1, OUT2: OUTPUTS
RF: RIPPLE FILTER

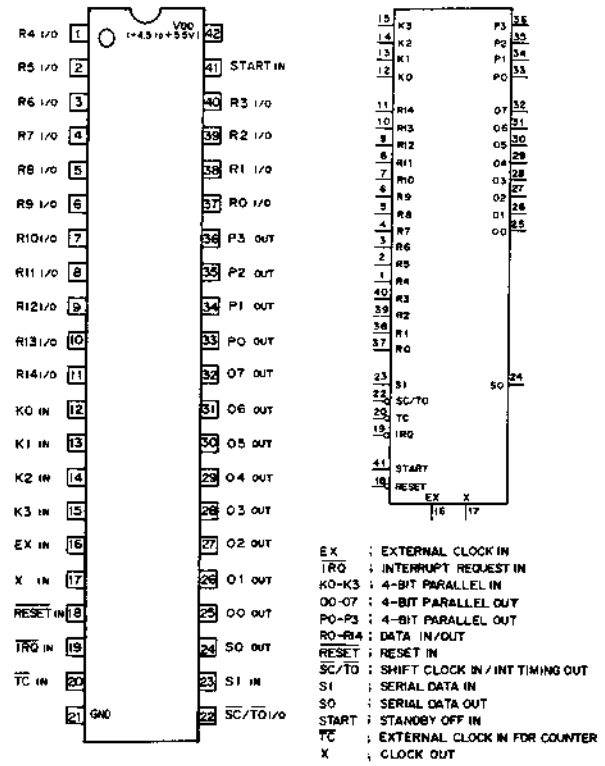


NJM78L??A (NEC)
POSITIVE VOLTAGE REGULATOR (100mA)

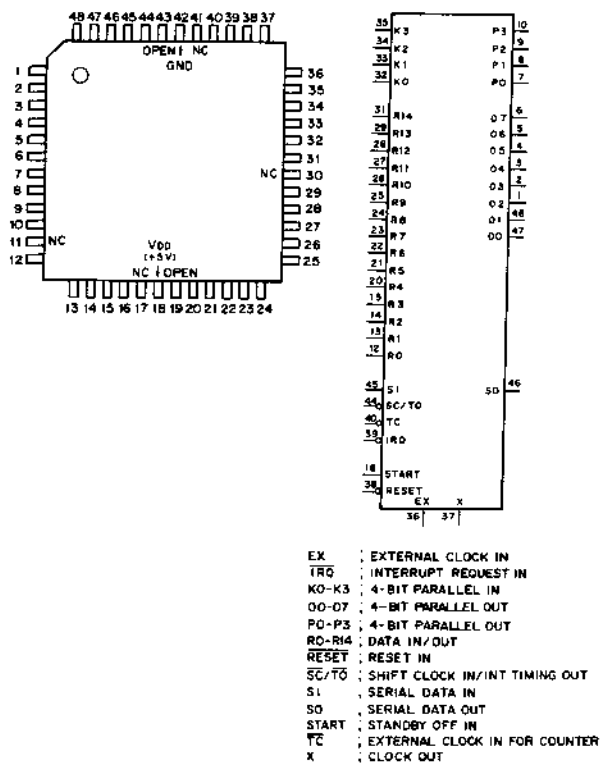
OUTPUT VOLTAGE	NJM78L??A	uA78L??ACL	uA78L??AMV	uPC78L??J	AN78L??
+5V	NJM78L05A	uA78L05ACL	uA78L05AMV	uPC78L05J	AN78L05
+9V	NJM78L09A	uA78L09ACL	uA78L09AMV	-----	AN78L09



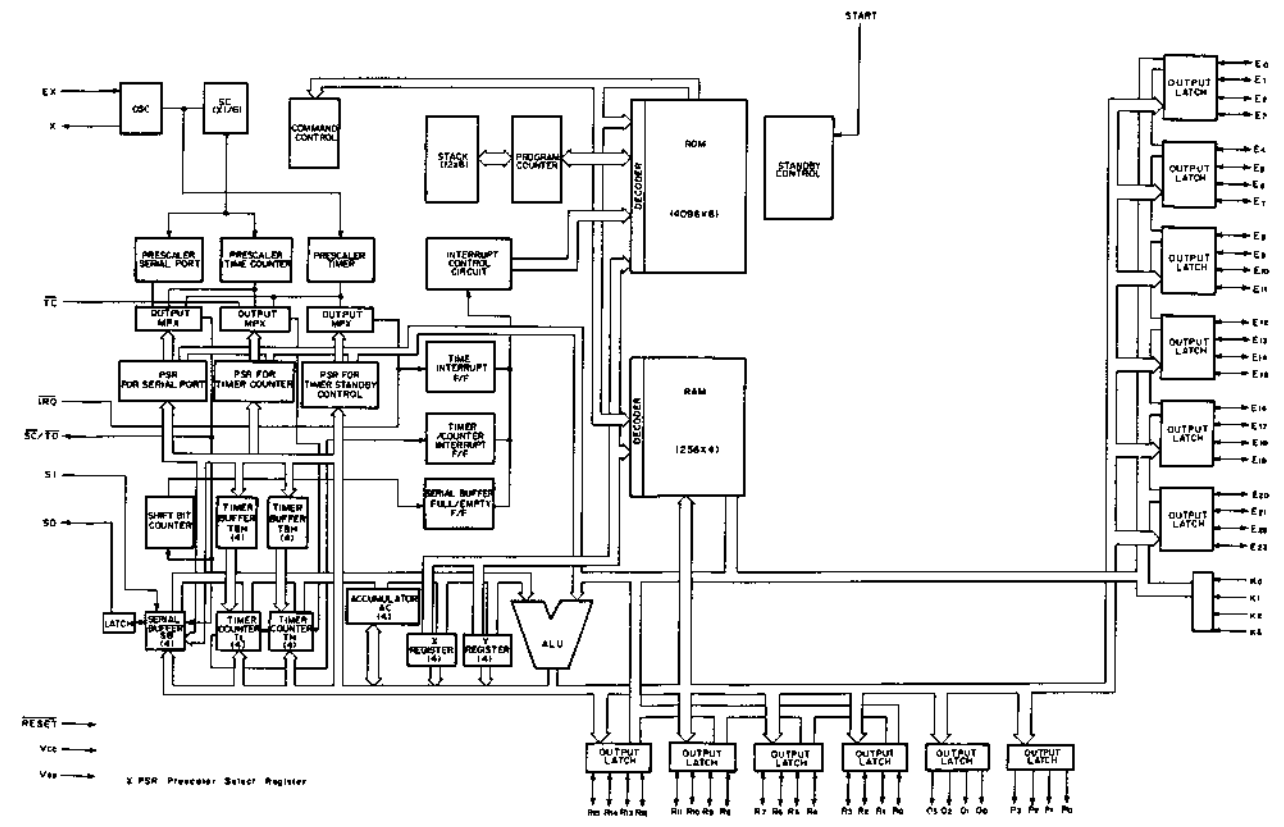
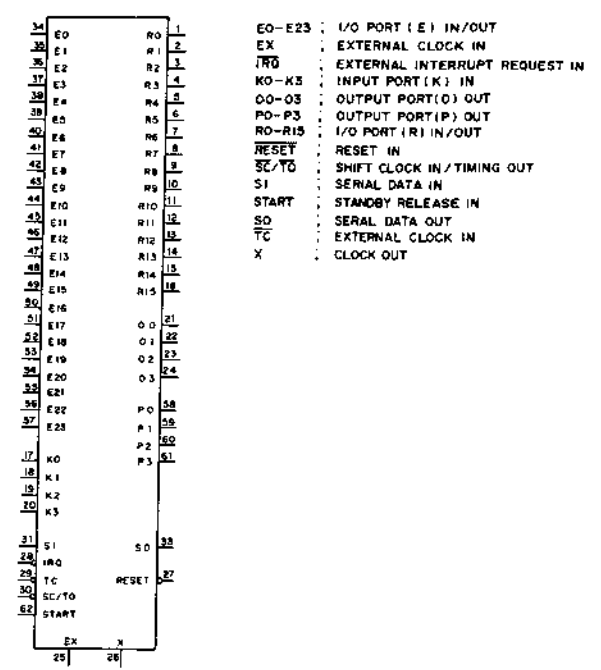
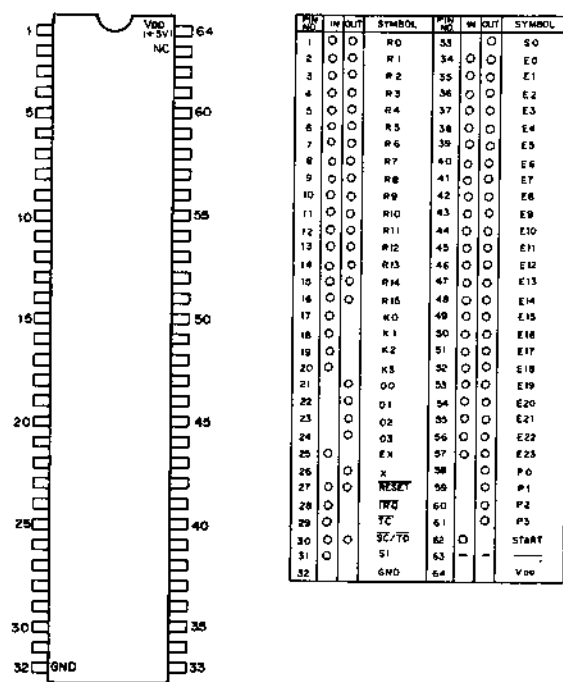
M888506P (FUJITSU)
C-MOS 4-BIT ONE-CHIP MICROCOMPUTER
— TOP VIEW —



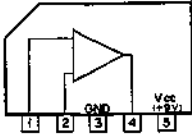
M888506PF (FUJITSU) FLAT PACKAGE
C-MOS 4-BIT ONE-CHIP MICROCOMPUTER
— TOP VIEW —



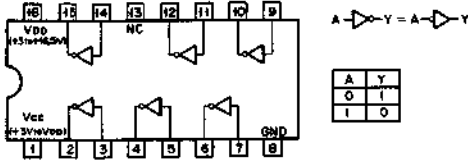
M888526P (FUJITSU)
C-MOS 4-BIT ONE-CHIP MICROCOMPUTER
— TOP VIEW —



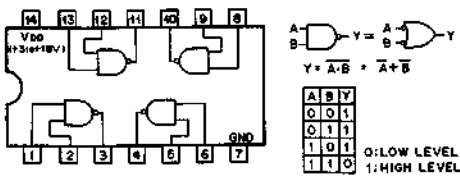
TA7060AP (TOSHIBA)
LINEAR AMP
— SIDE VIEW —



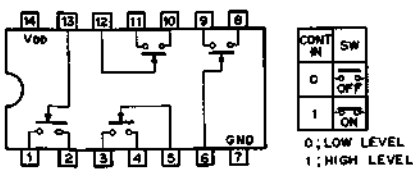
TC4009UBP (TOSHIBA)
C-MOS INVERTING TYPE BUFFER/CONVERTER (TO TTL LEVEL)
— TOP VIEW —



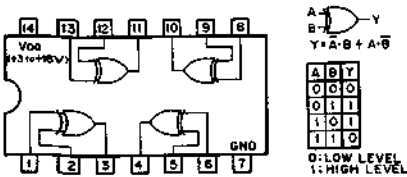
TC4011BP (TOSHIBA)
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



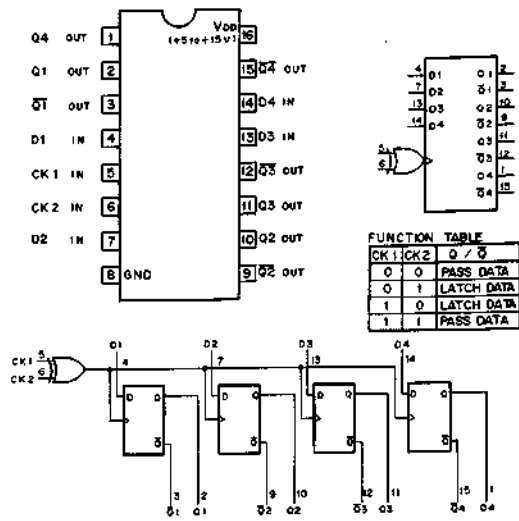
TC4016BPHB (TOSHIBA)
C-MOS BILATERAL SWITCH
— TOP VIEW —



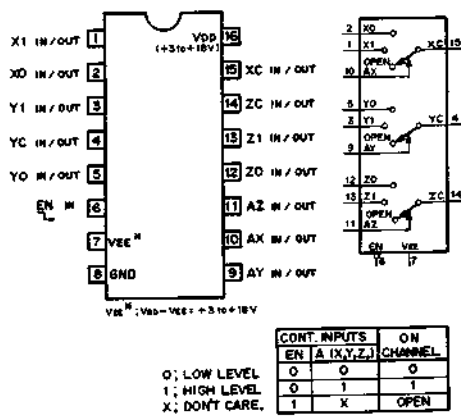
TC4030BP (TOSHIBA)
TC4030BPHB (TOSHIBA)
uPD4030BC (NEC)
C-MOS EXCLUSIVE OR GATE
— TOP VIEW —



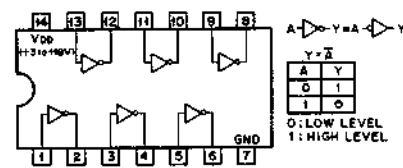
TC4042BP (TOSHIBA)
C-MOS D-TYPE LATCH
— TOP VIEW —



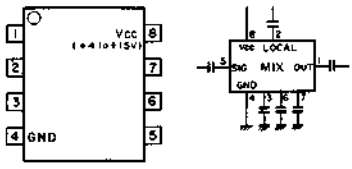
TC4053BPHB (TOSHIBA)
uPD4053BC (NEC)
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —



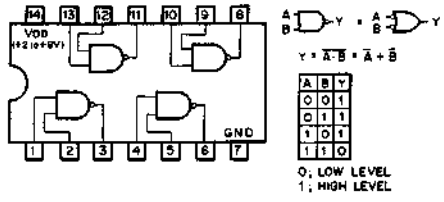
TC4069UBF (TOSHIBA) FLAT PACKAGE
TC4069UBP (TOSHIBA)
C-MOS INVERTER
— TOP VIEW —



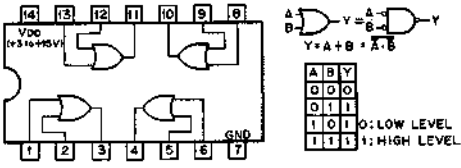
SN16913P (TI)
— TOP VIEW —



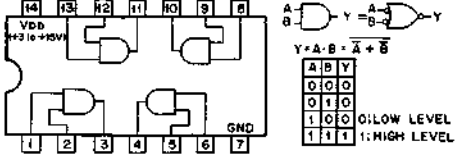
TC40H00P (TOSHIBA)
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



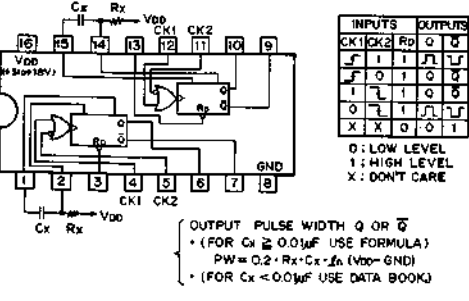
TC4071BP (TOSHIBA)
C-MOS 2-INPUT OR GATE
— TOP VIEW —



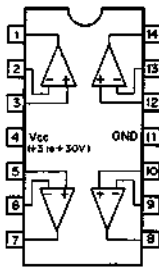
TC4081BP (TOSHIBA)
C-MOS 2-INPUT AND GATE
— TOP VIEW —



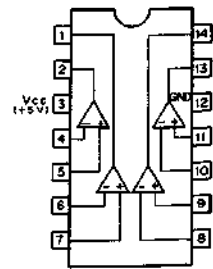
TC4528BFHB (TOSHIBA) FLAT PACKAGE
C-MOS RETRIGGERABLE/RESETTABLE MONO
— TOP VIEW —



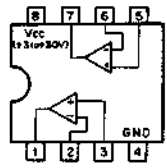
uPC324C (NEC)
QUAD. OP. AMPLIFIER
— TOP VIEW —



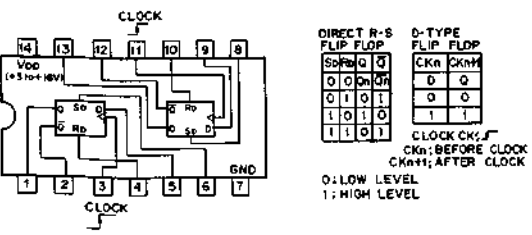
uPC339C (NEC)
COMPARATOR
— TOP VIEW —



uPC358C (NEC)
DUAL OPERATIONAL AMPLIFIERS
— TOP VIEW —



TC604013BP (TOSHIBA)
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
— TOP VIEW —



TRANSISTOR



2SA768
2SA771



2SC1569
2SC1828
2SC1986



2SD773
2SD774



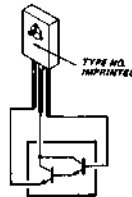
2SK106A



2SA844
2SA933



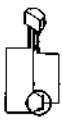
2SC1740
2SC2678



2SD894



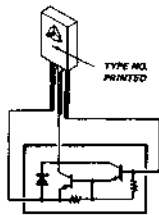
2SK523



2SA1048
2SA1115



2SC1740S
2SC2468
2SC2609
2SC2603G



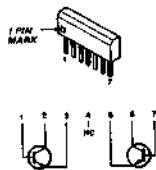
2SD986



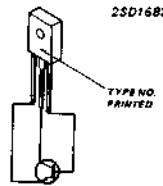
DTA124XS (R1=22K, R2=47K)
DTA144ES (R1=47K, R2=47K)



2SA1175
2SA1176F



2SC2771



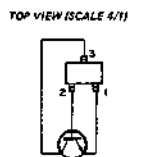
2SD1682



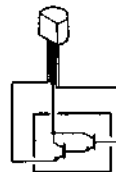
DTC124ES (R1=22K, R2=22K)
DTC124X5 (R1=22K, R2=47K)
DTC144ES (R1=47K, R2=47K)



2SB733



2SC2712



2SD1111

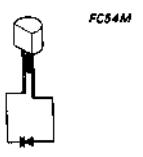
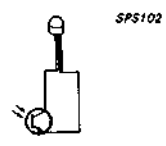
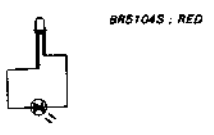
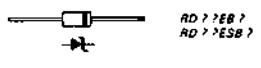
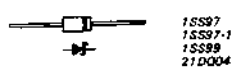
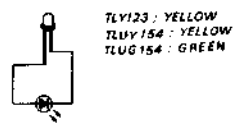
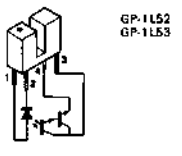
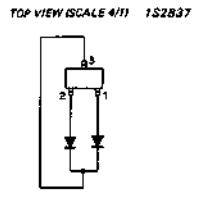
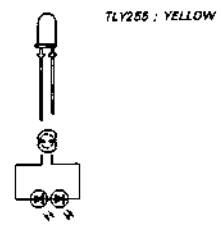
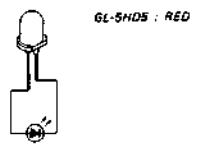
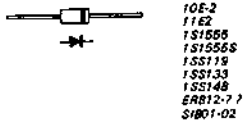


2SB739



2SC2785E
2SC2785F

DIODE



SECTION 14 PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

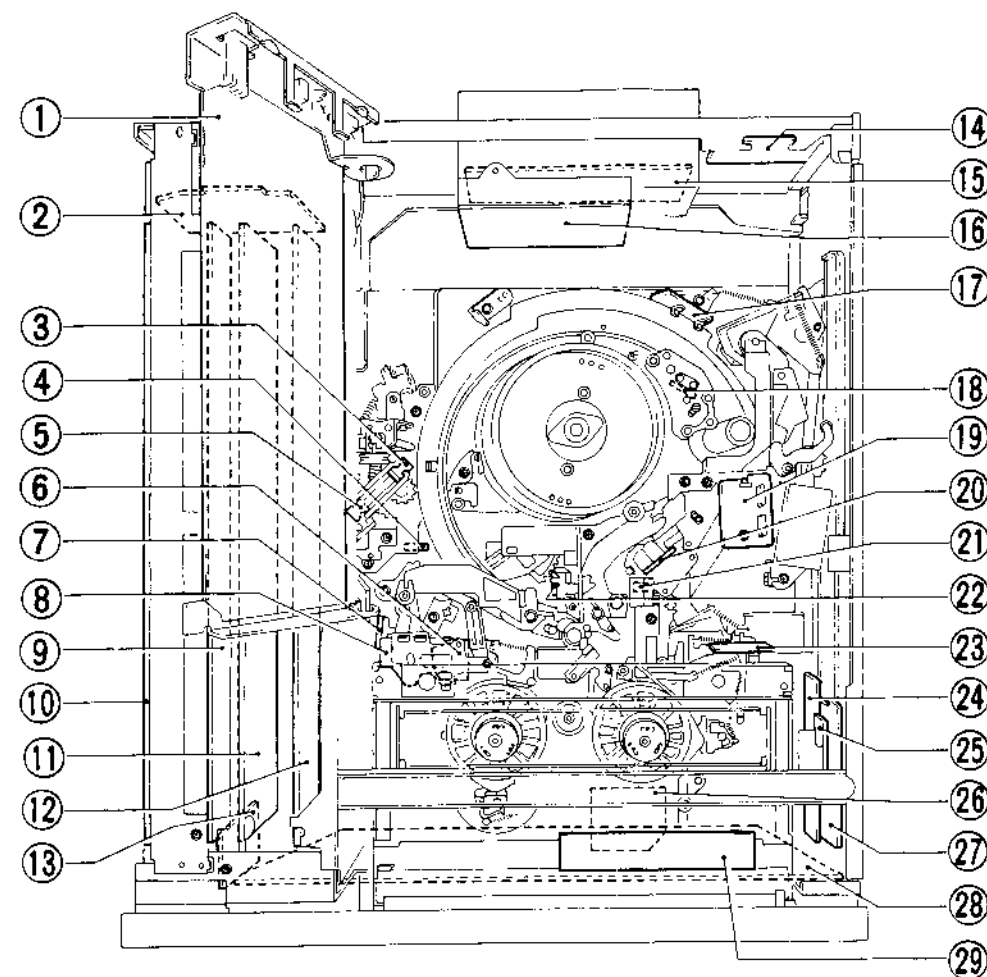
CIRCUIT FUNCTION OF THE PRINTED CIRCUIT BOARD

Circuit information is provided below.

SYSTEM	BOARD	CIRCUIT FUNCTION
VIDEO	RP-31A	PB Amplifier
	VP-21A	Y/C Demodulator
AUDIO	AU-82A	PB Amplifier
	AU-89A	Dolby
	CP-112A	Output Amplifier
	DUS-92	Audio/CTL Head
	DUS-147	Audio/CTL Head
	HP-30	Headphones
SERVO	EC-28	CTL Head
	DUS-92	Audio/CTL Head
	DUS-147	Audio/CTL Head
	PT-9	Reel Motor Driver
	SV-93A	Servo System
POWER	AC-65	AC Input
	DC-31	DC Supply
	UR-14	Switching Regulator
KEY	KY-105A	Function Key/Display
SYSTEM CONTROL	IF-132	33P Interface
	PD-40A	Plunger Solenoids
	PD-41	Plunger Solenoids
	PH-5	Tape Beginning/End Sensor
	SY-106A	System Control
OTHERS	CC-31	Cassette Compartment Driver
	CC-32	Cassette In Detector
	CC-33	Cassette Down Detector
	LM-13	Threading Motor
	LP-41	Cassette Compartment Light
	PTC-30	SP, Miss REC. KCA Detector
	PTC-33	FR Stop Detector
	PTC-34	Unthreadend Detector
	PTC-35	S/T Reel Rotation Detector
	RM-39	Reel Motor
	SE-46	Tension Regulator Detector
	TG-22	Tension Regulator LED

LOCATION OF THE PRINTED CTRCUI BOARD

(TOP VIEW)

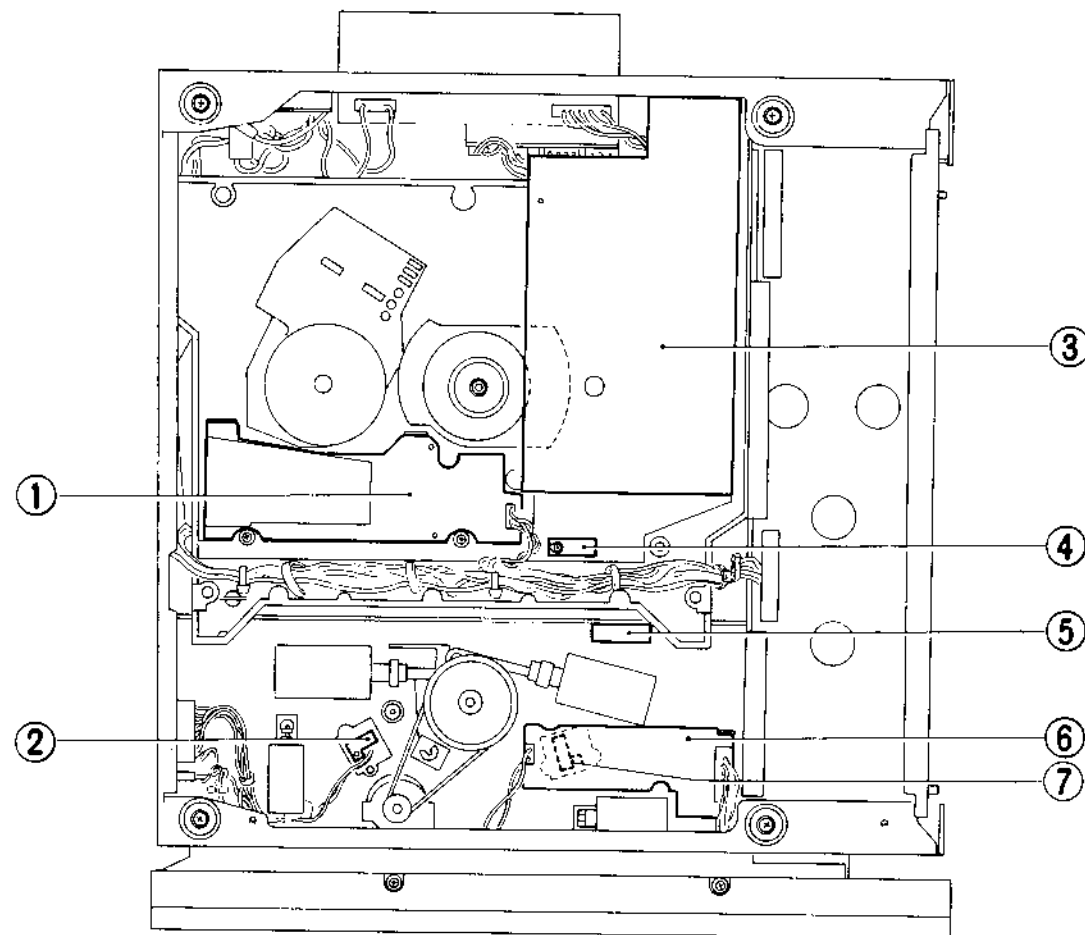


- | | |
|------------------|------------------|
| 1 VP-21A Board | 16 DC-31 Board |
| 2 CP-112A Board | 17 PTC-33 Board |
| 3 PH-5 Board | 18 DUS-92 Board |
| 4 LM-13 Board | 19 DUS-147 Board |
| 5 PH-5 Board | 20 EC-28 Board |
| 6 SE-46 Board | 21 PH-5 Board |
| 7 PTC-34 Board | 22 PH-5 Board |
| 8 PTC-30 Board | 23 CC-33 Board |
| 9 AU-89A Board | 24 CC-32 Board |
| 10 AU-82A Board | 25 CC-31 Board |
| 11 SV-93A Board | 26 RM-39 Board |
| 12 SY-106A Board | 27 PD-40A Board |
| 13 HP-30 Board | 28 KY-105A Board |
| 14 AC-65 Board | 29 LP-41 Board |
| 15 UR-14 Board | |

LOCATION

LOCATION

(BOTTOM VIEW)

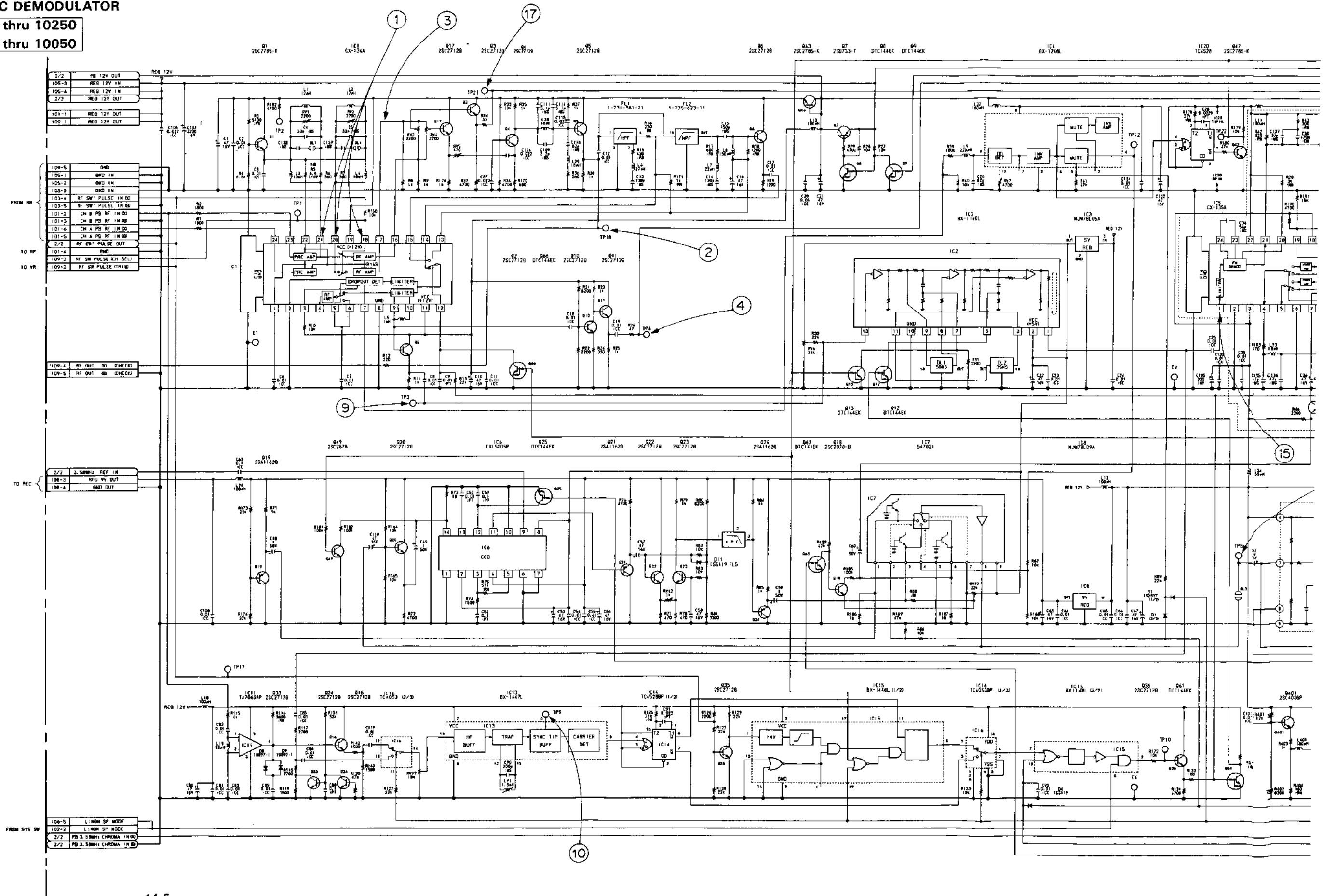


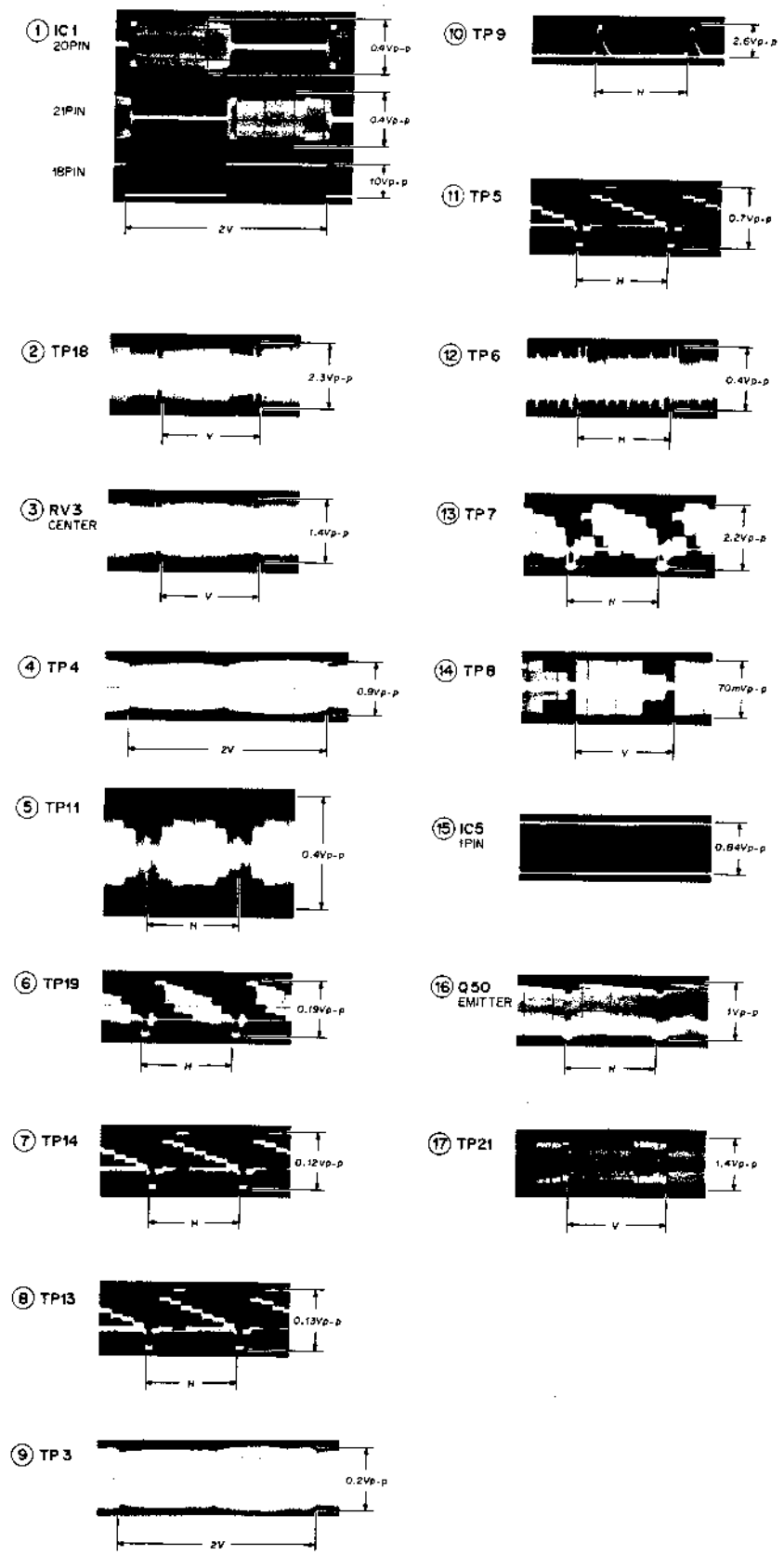
- 1 RP-31A Board
- 2 PTC-35 Board
- 3 IF-132 Board
- 4 PT-9 Board
- 5 TG-22 Board
- 6 PD-41 Board
- 7 PTC-35 Board

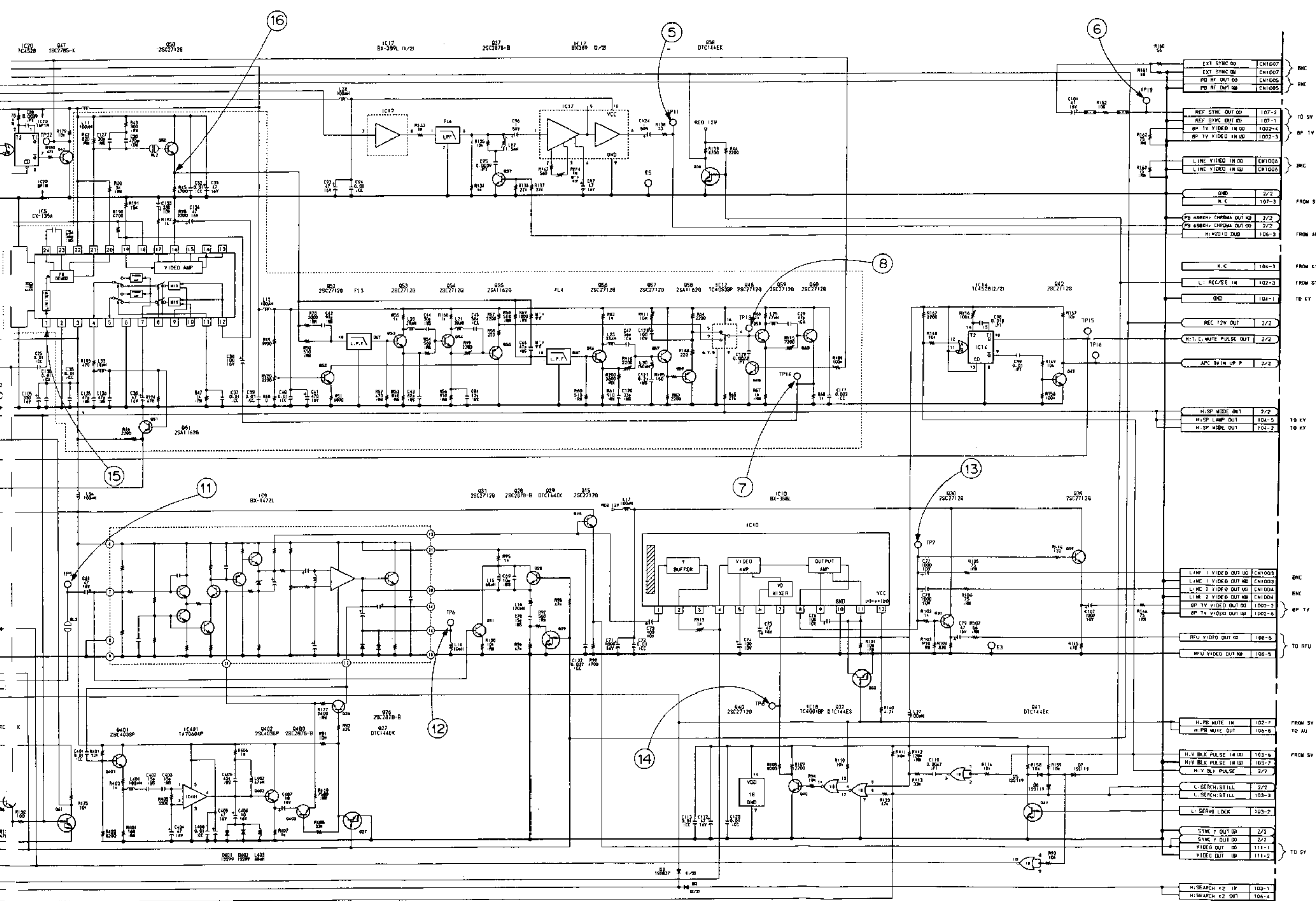
VP-21A(1/2): Y/C DEMODULATOR

UC: S/N 10001 thru 10250

J: S/N 10001 thru 10050







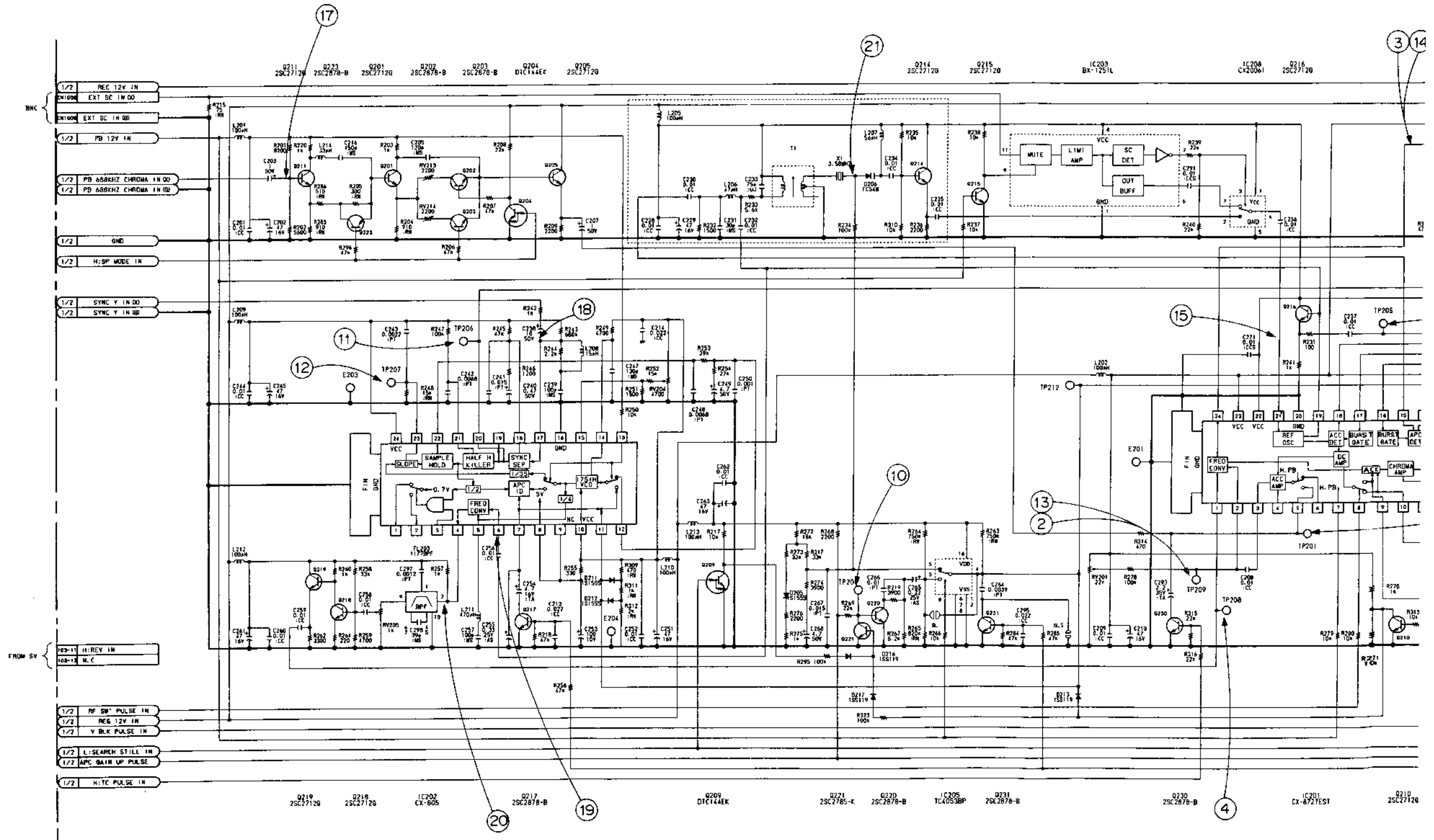
BNC	EXT SYNC OUT	EN1007
BNC	EXT SYNC IN	EN1007
	FB RF OUT	EN1005
	FB RF OUT	EN1005
TO SV	REF SYNC OUT	107-2
	REF SYNC OUT	107-1
BP TV	BP 1Y VIDEO IN	1002-4
	BP 1Y VIDEO IN	1002-3
BNC	LINE VIDEO IN	EN1004
	LINE VIDEO IN	EN1004
FROM SV	GND	2/2
	H.C	107-3
FROM AU	PD ARRHY CHROMA OUT	2/2
	PD ARRHY CHROMA OUT	2/2
	H. VIDEO TAB	106-3
FROM KY	H.C	104-3
FROM SYS	L. REC/EE IN	102-3
TO KY	GND	104-1
	REC 12V OUT	2/2
	H.T. L. MUTE PULSE OUT	2/2
	APC GAIN UP P	2/2
TO KY	H.SP MODE OUT	2/2
	H.SP LAMP OUT	104-5
TO KY	H.SP MODE OUT	104-2
BNC	L. 1 VIDEO OUT	EN1003
BNC	L. 1 VIDEO OUT	EN1003
BP TV	L. 2 VIDEO OUT	EN1004
	L. 2 VIDEO OUT	EN1004
	BP 1Y VIDEO OUT	1002-2
	BP 1Y VIDEO OUT	1002-6
TO RFU	RFU VIDEO OUT	106-6
	RFU VIDEO OUT	106-5
FROM SV	H.PB MUTE IN	102-7
TO AU	H.PB MUTE OUT	106-5
FROM SV	H.V BLK PULSE IN	103-6
	H.V BLK PULSE IN	103-7
	H.V BLK PULSE	2/2
	L. SEARCH STILL	2/2
	L. SEARCH STILL	103-3
	L. SERVO LOCK	103-2
TO SV	SYNC 7 OUT	2/2
	SYNC 7 OUT	2/2
	VIDEO OUT	111-1
	VIDEO OUT	111-2
	H. SEARCH #2 IN	103-1
	H. SEARCH #2 OUT	106-4

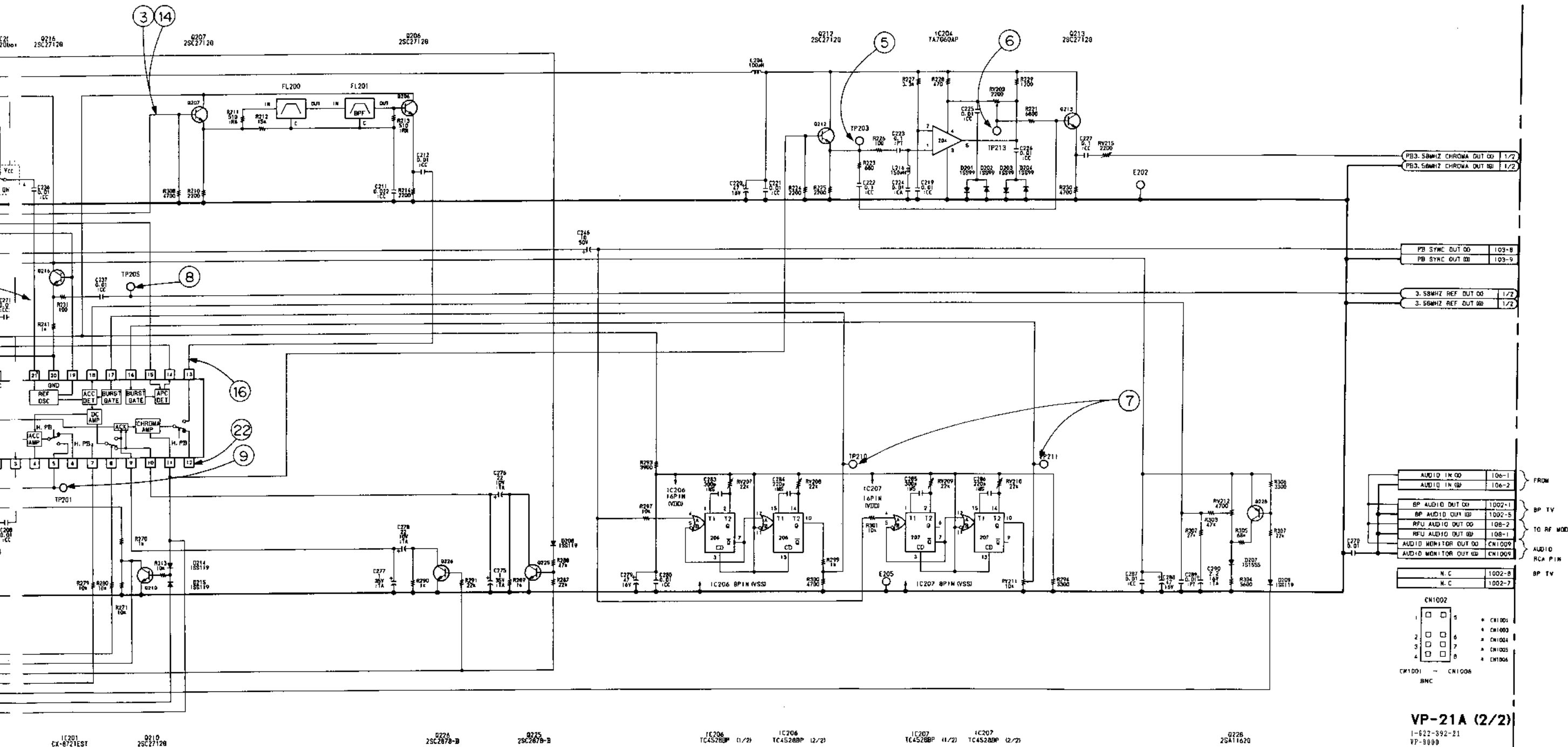
VP-21A (1/2)
1-622-392-21
VP-9000

VP-21A(2/2):Y/C DEMODULATOR

UC: S/N 10001 thru 10250

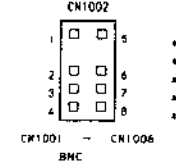
J: S/N 10001 thru 10050





PB3.58MHz CHROMA OUT (Q)	1/2
PB3.58MHz CHROMA OUT (B)	1/2
PB SYNC OUT (Q)	103-8
PB SYNC OUT (B)	103-9
3.58MHz REF OUT (Q)	1/2
3.58MHz REF OUT (B)	1/2

AUDIO IN (Q)	106-1	FROM
AUDIO IN (B)	106-2	
BP AUDIO OUT (Q)	1002-1	BP TV
BP AUDIO OUT (B)	1002-5	
RFU AUDIO OUT (Q)	108-2	TO RF MOD
RFU AUDIO OUT (B)	108-1	
AUDIO MONITOR OUT (Q)	CN1009	AUDIO
AUDIO MONITOR OUT (B)	CN1009	RCA PIN
N.C.	1002-8	BP TV
N.C.	1002-7	

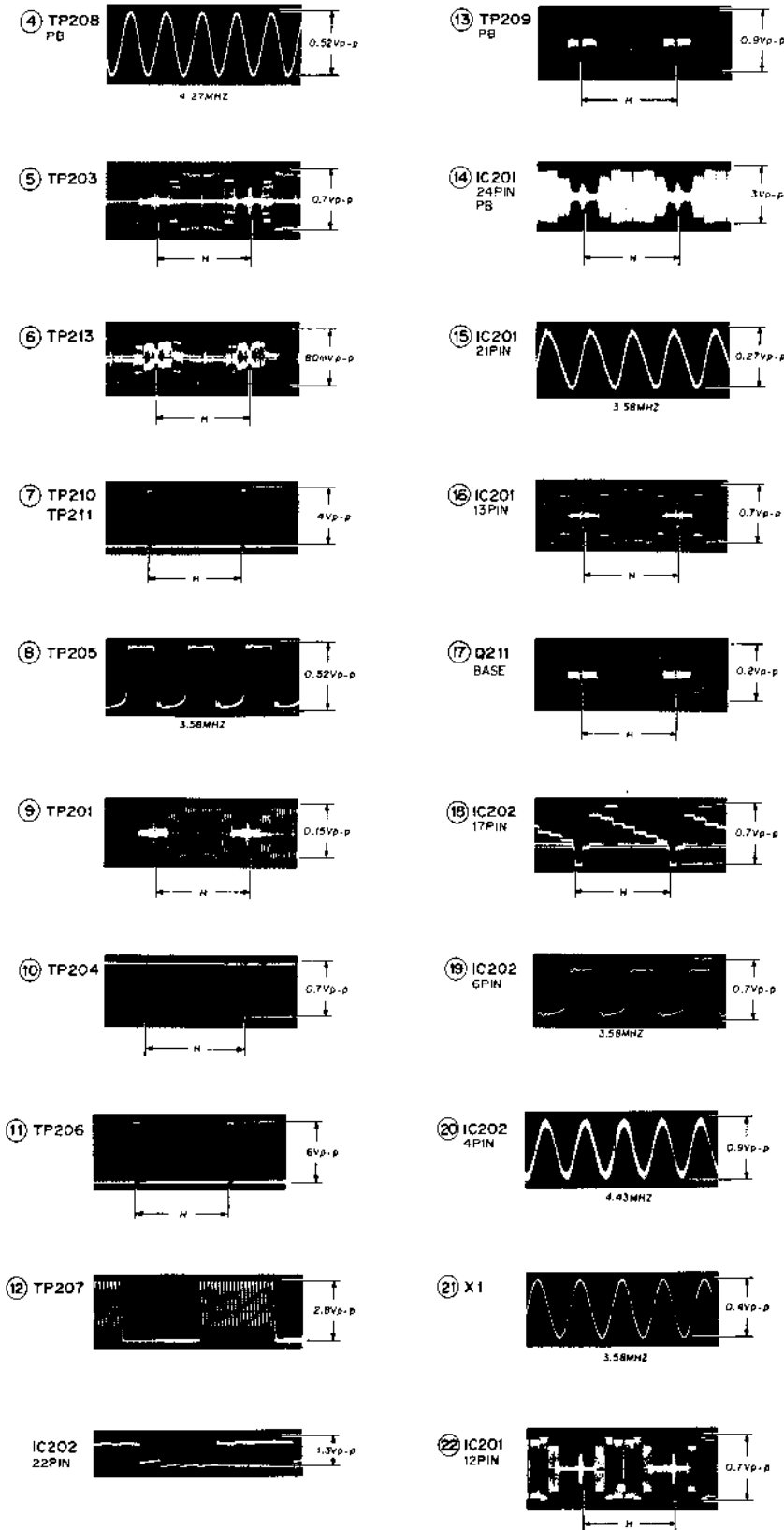


VP-21A (2/2)
1-622-392-21
VP-8000

VP-21A: Y/C DEMODULATOR (SOLDERING SIDE)

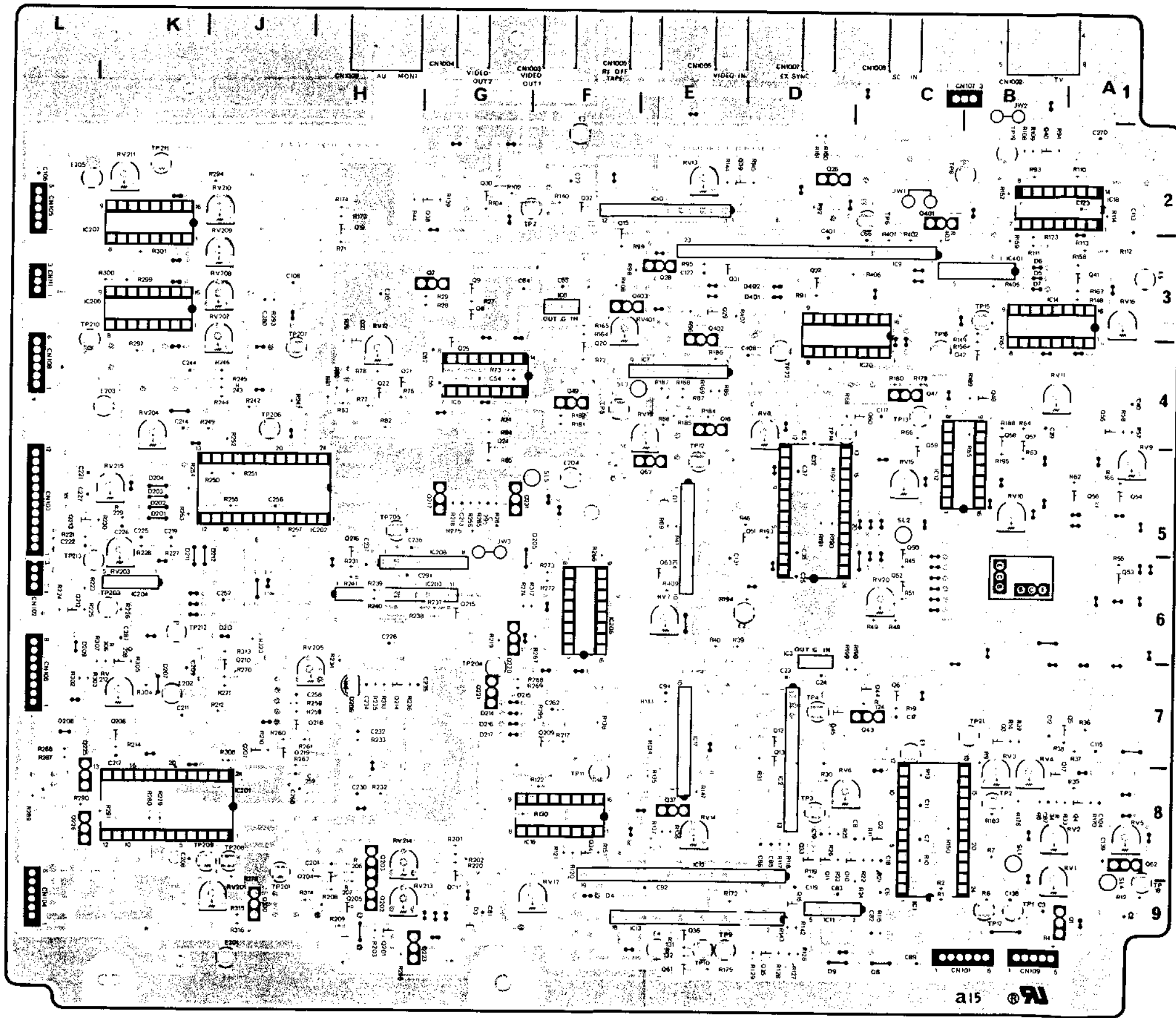
VP-21A (1-622-392-21)-S

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050



CN101	B-9	IC1	C-8	Q29	E-3	Q221	G-7	TP6	C-2
CN102	L-6	IC2	D-7	Q30	G-2	Q223	H-9	TP7	G-2
CN103	L-5	IC3	D-6	Q31	E-3	Q225	L-8	TP8	B-2
CN104	L-9	IC4	E-5	Q32	F-2	Q226	L-8	TP9	E-9
CN105	L-2	IC5	D-5	Q33	D-8	Q228	K-7	TP10	E-9
CN106	L-7	IC6	G-4	Q34	F-8	Q230	J-9	TP11	F-8
CN107	B-1	IC7	E-4	Q35	D-9	Q231	G-5	TP12	E-5
CN108	L-4	IC8	F-3	Q36	E-9	Q401	C-2	TP13	C-4
CN109	B-9	IC9	D-3	Q37	E-8	Q402	E-4	TP14	D-4
CN111	L-3	IC10	E-2	Q38	G-2	Q403	F-3	TP15	B-3
CN1002	B-1	IC11	D-9	Q39	E-2			TP16	C-4
CN1003	F-1	IC12	B-5	Q40	B-2	RV1	B-9	TP17	B-9
CN1004	G-1	IC13	E-9	Q41	A-3	RV2	B-8	TP18	A-9
CN1005	E-1	IC14	B-3	Q42	B-4	RV3	B-8	TP19	B-2
CN1006	E-1	IC15	E-8	Q44	C-7	RV4	B-8	TP21	B-7
CN1007	D-1	IC16	F-8	Q45	D-7	RV5	A-8	TP22	D-4
CN1008	C-1	IC17	E-7	Q47	C-4	RV6	D-8	TP201	J-8
CN1009	H-1	IC18	B-2	Q48	B-4	RV7	E-6	TP203	K-6
		IC20	D-3	Q49	F-4	RV8	D-4	TP204	G-7
D1	E-5	IC201	K-8	Q50	C-6	RV9	A-5	TP205	H-5
D3	G-9	IC202	J-5	Q51	E-5	RV10	B-5	TP206	J-4
D4	F-9	IC203	H-6	Q52	C-6	RV11	B-4	TP207	J-4
D5	B-3	IC204	K-6	Q53	A-6	RV12	H-4	TP208	J-8
D6	B-3	IC205	F-6	Q54	A-5	RV13	E-2	TP209	J-8
D7	B-3	IC206	K-3	Q55	A-4	RV14	E-8	TP210	L-4
D8	C-9	IC207	K-2	Q56	A-5	RV15	C-5	TP211	K-2
D9	D-9	IC208	G-6	Q57	B-4	RV16	A-3	TP212	K-6
D201	K-5	IC401	B-3	Q58	B-4	RV17	F-9	TP213	L-6
D202	K-5			Q59	C-5	RV19	E-5		
D203	K-5	Q1	B-9	Q60	C-4	RV20	C-6		
D204	K-5	Q2	C-8	Q61	E-9	RV201	J-9		
D205	G-6	Q3	B-7	Q62	A-8	RV203	K-6		
D206	H-7	Q4	A-8	Q62	E-5	RV204	K-4		
D207	K-7	Q5	A-7	Q63	E-6	RV205	J-7		
D208	L-7	Q6	C-7	Q201	H-9	RV207	J-4		
D209	L-6	Q7	G-3	Q202	H-9	RV208	J-3		
D210	J-6	Q8	G-3	Q203	H-8	RV209	J-3		
D211	K-6	Q9	G-3	Q204	H-9	RV210	J-2		
D213	J-6	Q10	C-8	Q205	H-9	RV211	K-2		
D214	G-7	Q11	D-8	Q206	K-7	RV212	K-7		
D215	G-7	Q12	D-7	Q207	J-7	RV213	H-9		
D216	G-7	Q13	D-7	Q209	F-7	RV214	H-9		
D217	G-7	Q15	F-3	Q210	J-7	RV215	K-5		
D401	D-3	Q16	D-9	Q211	G-9	RV401	F-4		
D402	D-3	Q17	B-8	Q212	L-6				
		Q18	E-4	Q213	L-5	SL1	B-8		
E1	C-7	Q19	H-2	Q214	H-7	SL2	C-5		
E2	E-6	Q20	F-4	Q215	G-6	SL3	F-4		
E3	F-2	Q21	H-4	Q216	H-5	SL4	A-9		
E4	E-9	Q22	H-4	Q217	G-5	SL5	F-5		
E5	A-3	Q23	H-4	Q218	J-7				
E201	J-9	Q24	G-5	Q219	J-7	TP1	B-9		
E202	K-7	Q25	G-4	Q220	G-6	TP2	B-8		
E203	K-4	Q26	D-2			TP3	D-8		
E204	F-5	Q27	D-3			TP4	D-7		
E205	L-2	Q28	E-3			TP5	F-4		

9	E-3	Q221	G-7	TP6	C-2
0	G-2	Q223	H-9	TP7	G-2
1	E-3	Q225	L-8	TP8	B-2
2	F-2	Q226	L-8	TP9	E-9
3	D-8	Q228	K-7	TP10	E-9
4	F-8	Q230	J-9	TP11	F-8
5	D-9	Q231	G-5	TP12	E-5
6	E-9	Q401	C-2	TP13	C-4
7	E-8	Q402	E-4	TP14	D-4
8	G-2	Q403	F-3	TP15	B-3
9	E-2			TP16	C-4
0	B-2	RV1	B-9	TP17	B-9
1	A-3	RV2	B-8	TP18	A-9
2	B-4	RV3	B-8	TP19	B-2
3	C-7	RV4	B-8	TP21	B-7
4	D-7	RV5	A-8	TP22	D-4
5	C-4	RV6	D-8	TP201	J-8
6	B-4	RV7	E-6	TP203	K-6
7	F-4	RV8	D-4	TP204	G-7
8	C-6	RV9	A-5	TP205	H-5
9	E-5	RV10	B-5	TP206	J-4
0	C-6	RV11	B-4	TP207	J-4
1	A-6	RV12	H-4	TP208	J-8
2	A-5	RV13	E-2	TP209	J-8
3	A-4	RV14	E-8	TP210	L-4
4	A-5	RV15	C-5	TP211	K-2
5	B-4	RV16	A-3	TP212	K-6
6	B-4	RV17	F-9	TP213	L-6
7	C-5	RV19	E-5		
8	C-4	RV20	C-6		
9	E-9	RV201	J-9		
0	A-8	RV203	K-6		
1	E-5	RV204	K-4		
2	E-6	RV205	J-7		
3	H-9	RV207	J-4		
4	H-9	RV208	J-3		
5	H-8	RV209	J-3		
6	H-9	RV210	J-2		
7	H-9	RV211	K-2		
8	K-7	RV212	K-7		
9	J-7	RV213	H-9		
0	F-7	RV214	H-9		
1	J-7	RV215	K-5		
2	L-6	RV401	F-4		
3	L-5	SL1	B-8		
4	H-7	SL2	C-5		
5	G-6	SL3	F-4		
6	F-5	SL4	A-9		
7	G-5	SL5	F-5		
8	J-7				
9	J-7	TP1	B-9		
0	G-6	TP2	B-8		
		TP3	D-8		
		TP4	D-7		
		TP5	F-4		



VP-21A
 -SOLDERING SIDE-
 1-622-392-21
 VP-8800

VP-21A: Y/C DEMODULAOR (COMPONENT SIDE)

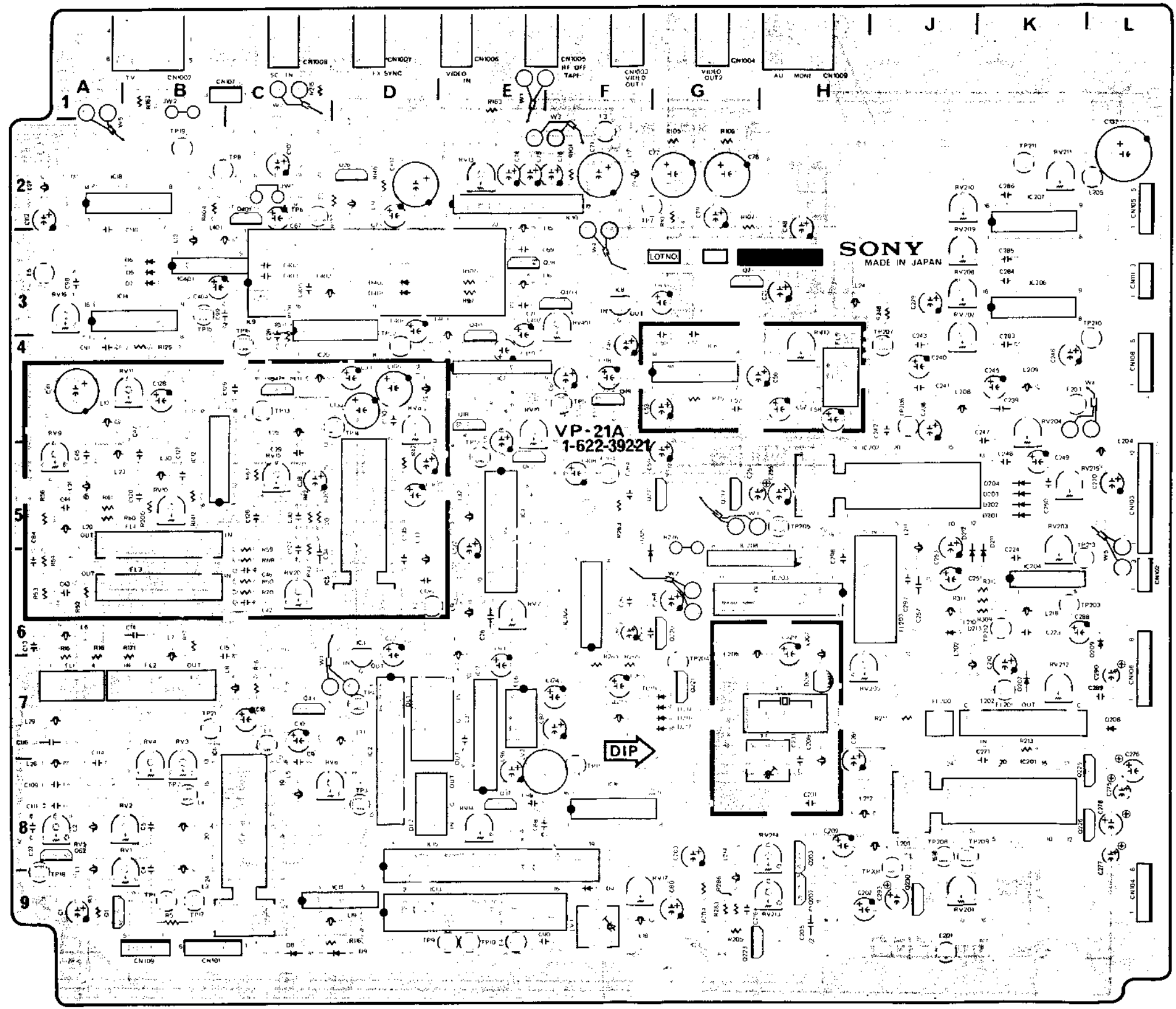
UC; S/N 10001 thru 10250

J; S/N 10001 thru 10050

VP-21A (1-622-392-21)-C

CN101	B-9	E205	L-2	Q217	G-5	TP12	E-5
CN102	L-6			Q220	G-6	TP13	C-4
CN103	L-5	FL1	A-7	Q221	G-7	TP14	D-4
CN104	L-9	FL2	B-7	Q223	G-9	TP15	B-3
CN105	L-2	FL3	B-6	Q225	L-8	TP16	C-4
CN106	L-7	FL4	B-5	Q226	L-8	TP17	B-9
CN107	B-1	FL5	H-4	Q230	J-9	TP18	A-9
CN108	L-4	FL6	E-7	Q231	G-5	TP19	B-2
CN109	B-9	FL200	J-7	Q401	C-2	TP21	B-7
CN111	L-3	FL203	J-6	Q402	E-4	TP22	D-4
CN1002	B-1	FL201	K-7	Q403	F-3	TP201	J-9
CN1003	F-1					TP203	K-6
CN1004	G-1	IC1	C-8	RV1	A-9	TP204	G-7
CN1005	E-1	IC2	D-7	RV2	A-8	TP205	H-5
CN1006	E-1	IC3	D-7	RV3	B-8	TP206	J-4
CN1007	D-1	IC4	E-5	RV4	B-8	TP207	J-4
CN1008	C-1	IC5	D-5	RV5	A-8	TP208	J-9
CN1009	H-1	IC6	G-4	RV6	C-8	TP209	J-9
		IC7	E-4	RV7	E-6	TP210	L-4
D4	F-9	IC8	F-3	RV8	D-4	TP211	K-2
D5	B-3	IC9	D-3	RV9	A-5	TP212	K-6
D6	B-3	IC10	E-2	RV10	B-5	TP213	K-6
D7	B-3	IC11	C-9	RV11	B-4		
D8	C-9	IC12	B-5	RV12	H-4	X1	H-7
D9	D-9	IC13	E-9	RV13	E-2		
D201	K-5	IC14	A-3	RV14	E-8		
D202	K-5	IC15	E-9	RV15	C-5		
D203	K-5	IC16	F-8	RV16	A-3		
D204	K-5	IC17	E-7	RV17	F-9		
D205	F-6	IC18	A-2	RV19	E-5		
D206	H-7	IC20	D-3	RV20	C-6		
D207	K-7	IC201	K-8	RV201	J-9		
D208	L-7	IC202	J-5	RV203	K-6		
D209	L-7	IC203	H-6	RV204	K-5		
D211	K-6	IC204	K-6	RV205	H-7		
D212	J-6	IC205	F-6	RV207	J-4		
D213	J-6	IC206	K-3	RV208	J-3		
D214	G-7	IC207	K-3	RV209	J-3		
D215	G-7	IC208	G-6	RV210	J-2		
D216	G-7	IC401	B-3	RV211	K-2		
D217	G-7			RV212	K-7		
D401	D-3	LV1	F-9	RV213	H-9		
D402	D-3	LV2	E-8	RV214	H-9		
				RV215	K-5		
				RV401	F-3		
DL1	D-7	Q1	A-9				
DL2	D-8	Q7	G-3				
		Q18	E-4	T1	H-8		
		Q26	D-2				
E1	C-7	Q28	E-3	TP1	B-9		
E2	D-6	Q37	E-8	TP2	B-8		
E3	F-2	Q43	C-7	TP3	D-8		
E4	E-9	Q47	C-4	TP4	D-7		
E5	A-3	Q49	F-4	TP5	F-4		
E201	J-9	Q62	E-5	TP6	C-2		
E202	K-7	Q202	H-9	TP7	F-2		
E203	K-4	Q203	H-9	TP8	B-2		
E204	F-5			TP9	E-9		
				TP10	E-9		
				TP11	F-8		

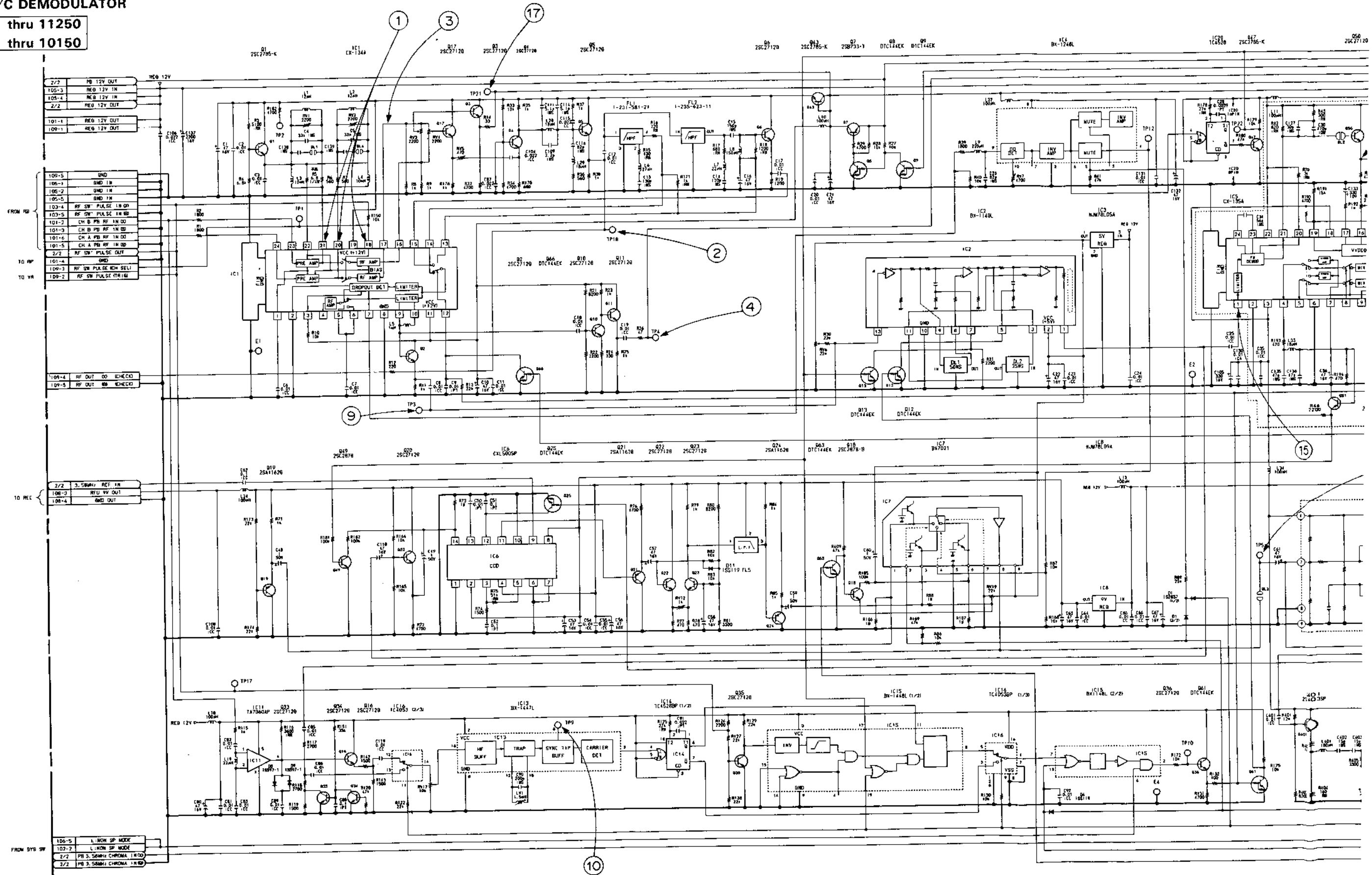
- | | | | |
|-------|-----|-------|-----|
| Q217 | G-5 | TP12 | E-5 |
| Q220 | G-6 | TP13 | C-4 |
| Q221 | G-7 | TP14 | D-4 |
| Q223 | G-9 | TP15 | B-3 |
| Q225 | L-8 | TP16 | C-4 |
| Q226 | L-8 | TP17 | B-9 |
| Q230 | J-9 | TP18 | A-9 |
| Q231 | G-5 | TP19 | B-2 |
| Q401 | C-2 | TP21 | B-7 |
| Q402 | E-4 | TP22 | D-4 |
| Q403 | F-3 | TP201 | J-9 |
| RV1 | A-9 | TP203 | K-6 |
| RV2 | A-8 | TP204 | G-7 |
| RV3 | B-8 | TP205 | H-5 |
| RV4 | B-8 | TP206 | J-4 |
| RV5 | A-8 | TP207 | J-4 |
| RV6 | C-8 | TP208 | J-9 |
| RV7 | E-6 | TP209 | J-9 |
| RV8 | D-4 | TP210 | L-4 |
| RV9 | A-5 | TP211 | K-2 |
| RV10 | B-5 | TP212 | K-6 |
| RV11 | B-4 | TP213 | K-6 |
| RV12 | H-4 | X1 | H-7 |
| RV13 | E-2 | | |
| RV14 | E-8 | | |
| RV15 | C-5 | | |
| RV16 | A-3 | | |
| RV17 | F-9 | | |
| RV19 | E-5 | | |
| RV20 | C-6 | | |
| RV201 | J-9 | | |
| RV203 | K-6 | | |
| RV204 | K-5 | | |
| RV205 | H-7 | | |
| RV207 | J-4 | | |
| RV208 | J-3 | | |
| RV209 | J-3 | | |
| RV210 | J-2 | | |
| RV211 | K-2 | | |
| RV212 | K-7 | | |
| RV213 | H-9 | | |
| RV214 | H-9 | | |
| RV215 | K-5 | | |
| RV401 | F-3 | | |
| T1 | H-8 | | |
| TP1 | B-9 | | |
| TP2 | B-8 | | |
| TP3 | D-8 | | |
| TP4 | D-7 | | |
| TP5 | F-4 | | |
| TP6 | C-2 | | |
| TP7 | F-2 | | |
| TP8 | B-2 | | |
| TP9 | E-9 | | |
| TP10 | E-9 | | |
| TP11 | F-8 | | |

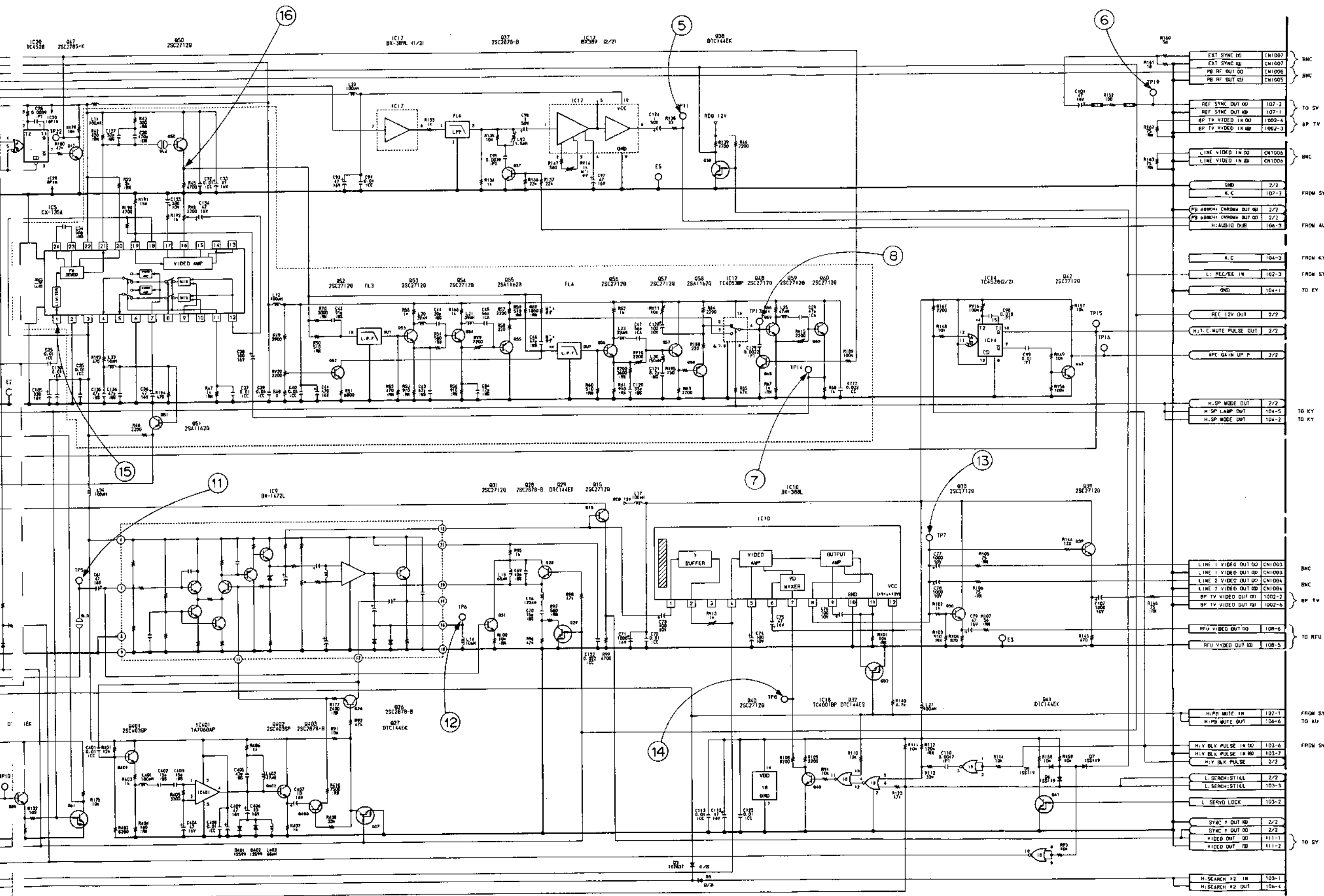


VP-21A
 -COMPONENT SIDE-
 1-622-392-21
 VP-3000

VP-21A(1/2): Y/C DEMODULATOR

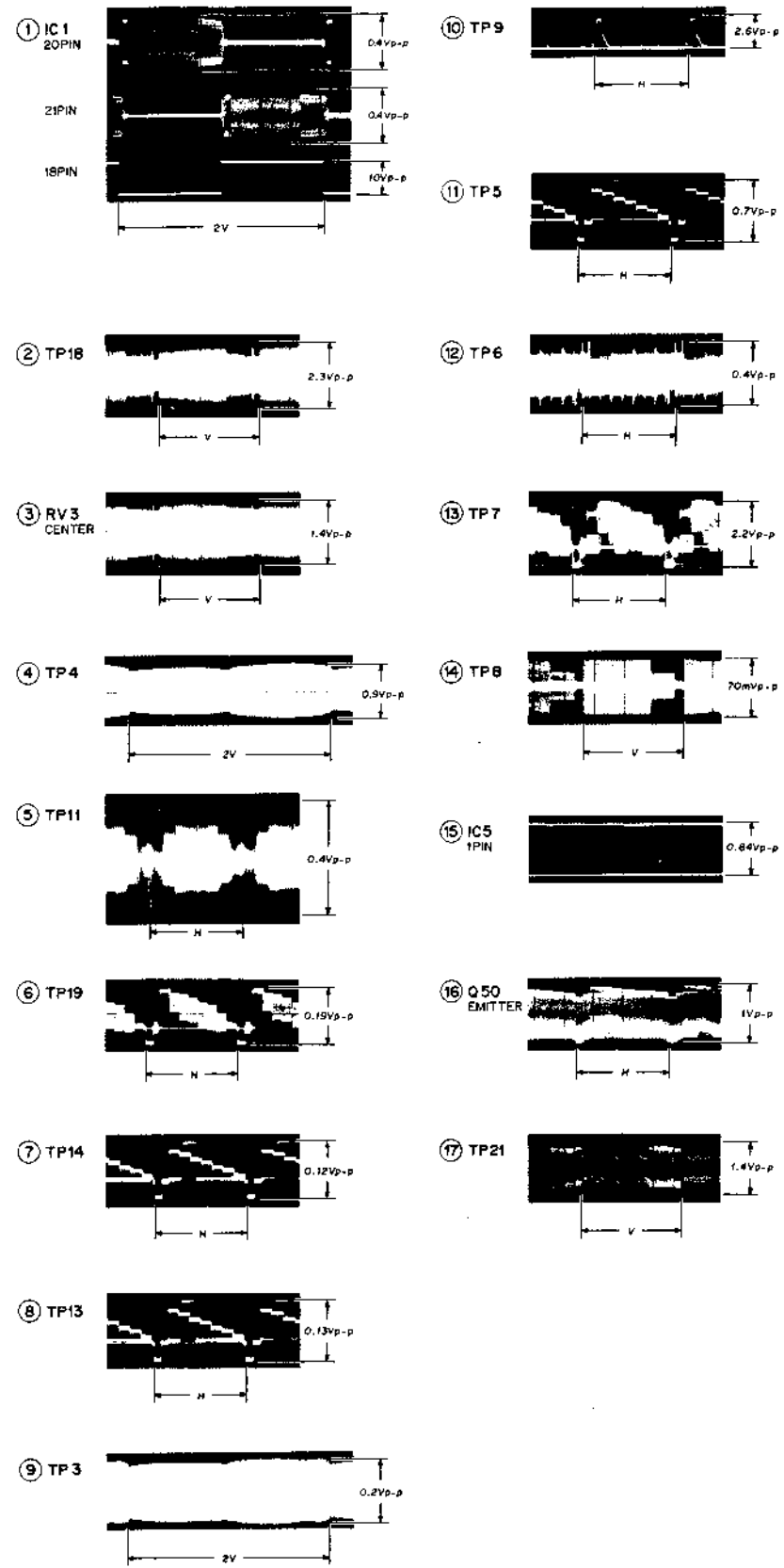
UC: S/N 10251 thru 11250
 J: S/N 10051 thru 10150





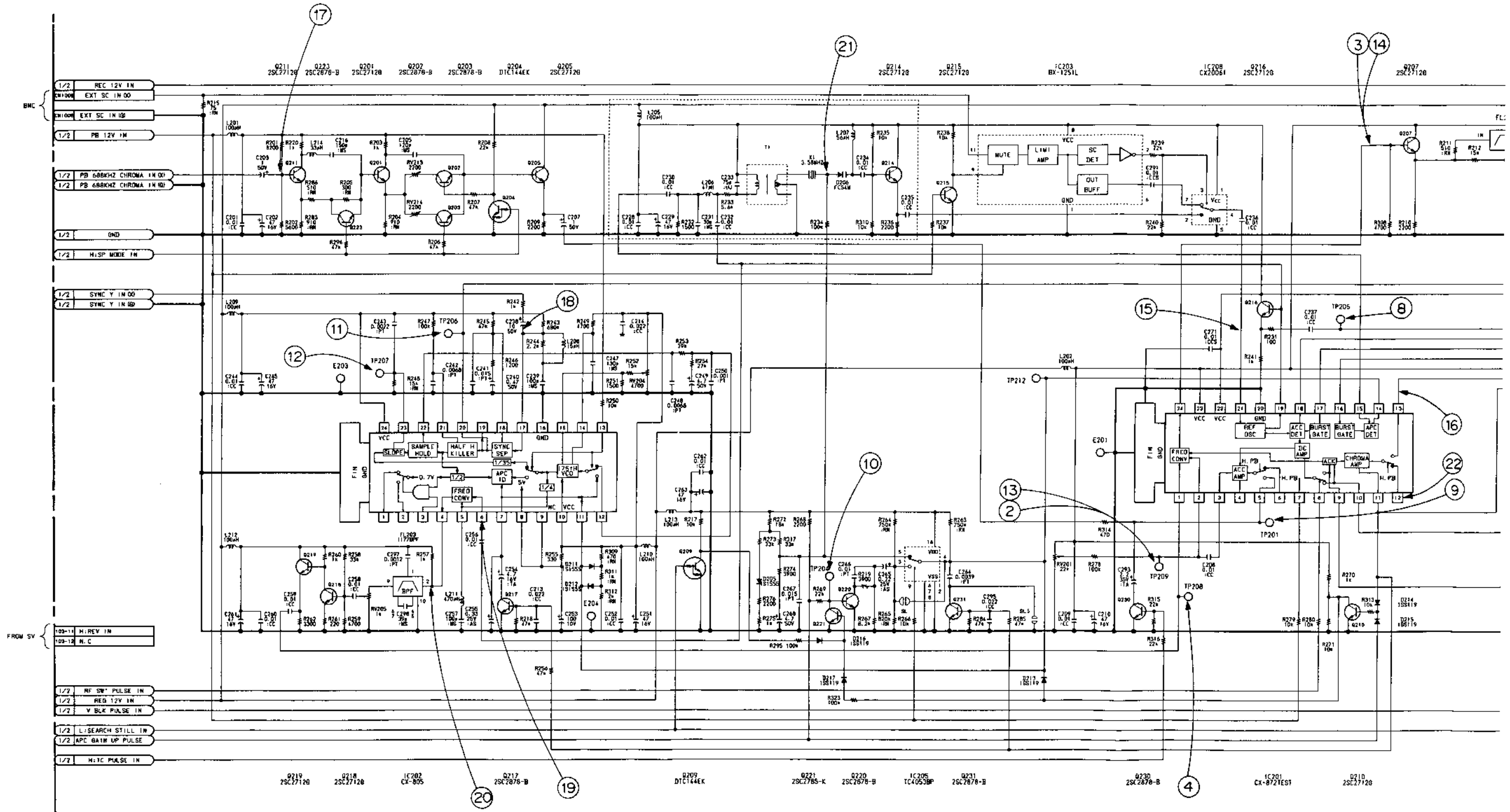
EXT SYNC IN	CN1007	BNC
EXT SYNC IN	CN1007	BNC
PB RF OUT	CN1008	BNC
PB RF OUT	CN1005	BNC
REF SYNC OUT	107-2	TO SV
REF SYNC OUT	107-1	TO SV
BP TV VIDEO IN	1002-4	BP TV
BP TV VIDEO IN	1002-3	BP TV
LINE VIDEO IN	CN1006	BNC
LINE VIDEO IN	CN1006	BNC
GND	2/2	FROM SV
K.C	107-3	FROM SV
PB SEARCH CHROMA OUT	2/2	FROM AU
PB SEARCH CHROMA OUT	2/2	FROM AU
H-AUDIO DUB	104-3	FROM KY
K.C	104-3	FROM KY
L: REC/EE IN	102-3	FROM SY
GND	104-1	TO KY
REC 12V OUT	2/2	
H.I.C MUTE PULSE OUT	2/2	
SPC GAIN UP P	2/2	
H-SP MODE OUT	2/2	TO KY
H-SP LAMP OUT	104-5	TO KY
H-SP MODE OUT	104-2	TO KY
LINE 1 VIDEO OUT	CN1003	BNC
LINE 1 VIDEO OUT	CN1003	BNC
LINE 2 VIDEO OUT	CN1004	BNC
LINE 3 VIDEO OUT	CN1004	BNC
BP TV VIDEO OUT	1002-2	BP TV
BP TV VIDEO OUT	1002-6	BP TV
RFU VIDEO OUT	108-6	TO RFU
RFU VIDEO OUT	108-5	TO RFU
H-IPB MUTE IN	102-1	FROM SY
H-IPB MUTE OUT	104-6	TO AU
H-V BLK PULSE IN	103-8	FROM SY
H-V BLK PULSE IN	103-7	FROM SY
H-V BLK PULSE	2/2	
L: SEARCH STILL	2/2	
L: SEARCH STILL	103-3	
L: SERVO LOCK	103-2	
SYNC Y OUT	2/2	TO SY
SYNC Y OUT	2/2	TO SY
VIDEO OUT	111-1	TO SY
VIDEO OUT	111-2	TO SY
H: SEARCH #2 IN	103-1	
H: SEARCH #2 OUT	104-4	

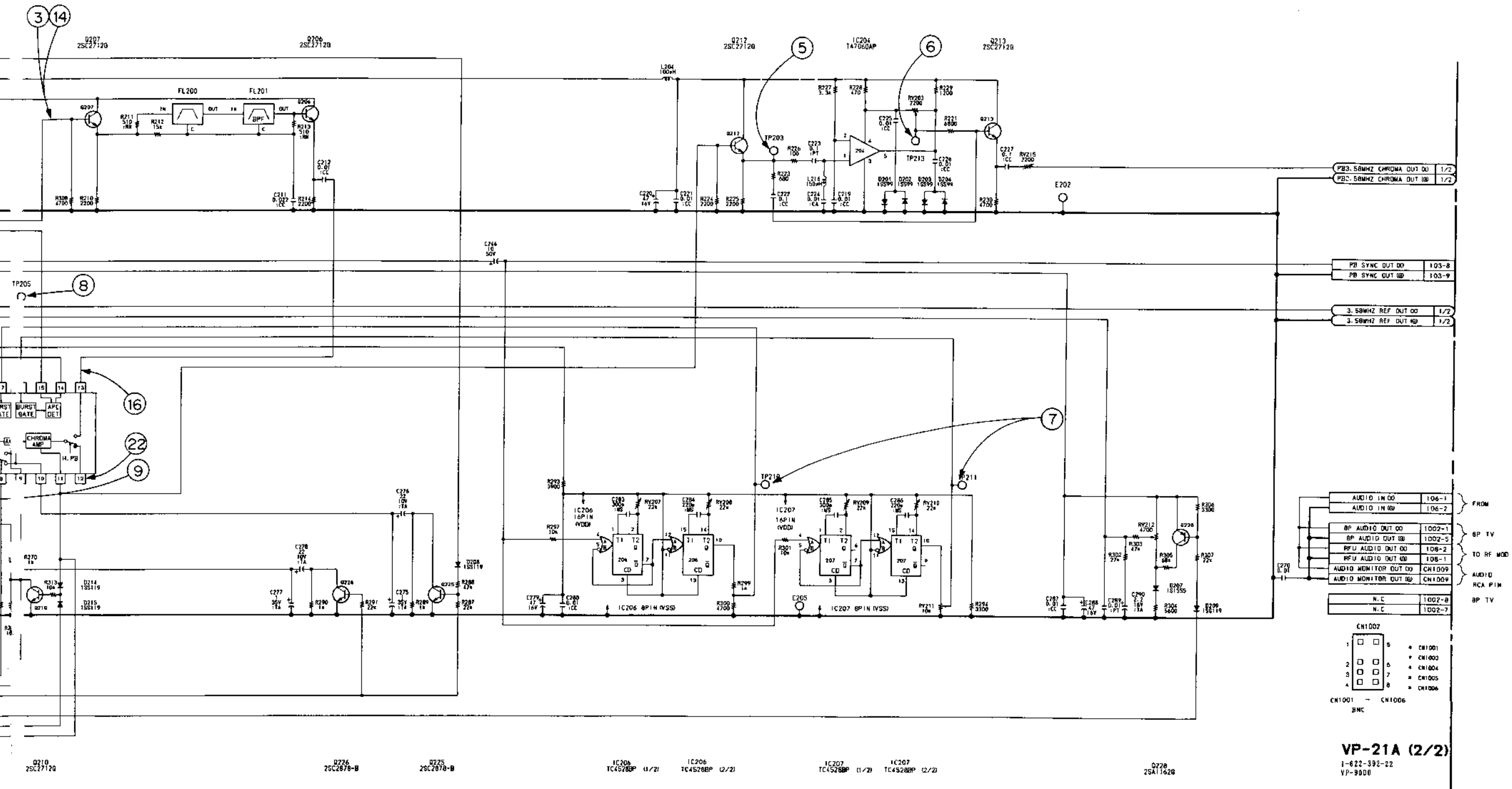
VP-21A (1/2)
1-822-392-22
VP-9080



VP-21A(2/2): Y/C DEMODULATOR

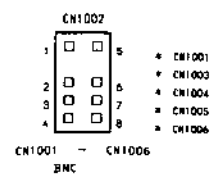
UC; S/N 10251 thru 11250
 J; S/N 10051 thru 10150





PB3.58MHZ CHROMA OUT O0	1/2
PB3.58MHZ CHROMA OUT I0	1/2
PB SYNC OUT O0	103-8
PB SYNC OUT I0	103-9
3.58MHZ REF OUT O0	1/2
3.58MHZ REF OUT I0	1/2

AUDIO IN O0	106-1	FROM
AUDIO IN I0	106-2	
BP AUDIO OUT O0	1002-1	BP TV
BP AUDIO OUT I0	1002-5	
RFU AUDIO OUT O0	108-2	TO RF MOD
RFU AUDIO OUT I0	108-1	
AUDIO MONITOR OUT O0	CN1009	AUDIO
AUDIO MONITOR OUT I0	CN1009	RCA PIN
N.C.	1002-8	BP TV
N.C.	1002-7	



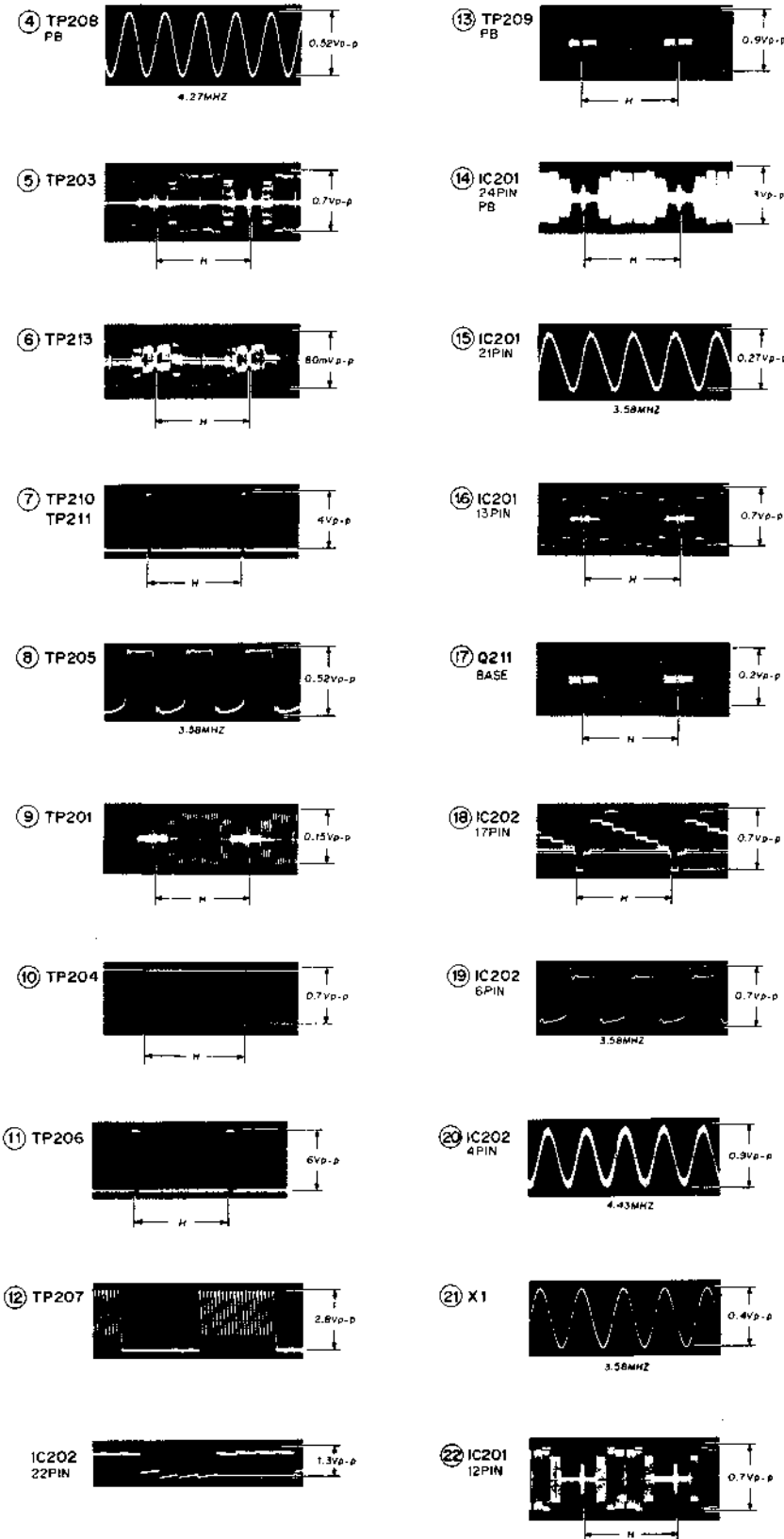
VP-21A (2/2)
1-622-392-22
VP-9000

- Q210 2SC2712B
- Q211 158119
- Q212 2SC2712B
- Q213 2SC2712B
- Q214 158119
- Q215 158119
- Q216 158119
- Q217 158119
- Q218 158119
- Q219 158119
- Q220 158119
- Q221 158119
- Q222 158119
- Q223 158119
- Q224 158119
- Q225 26C2878-B
- Q226 26C2878-B
- Q227 26C2878-B
- Q228 26A11628
- IC204 1A7060AP
- IC206 1A61N VDDI (1/2)
- IC206 1A61N VSSD (2/2)
- IC207 1A61N VDDI (1/2)
- IC207 1A61N VSSD (2/2)

VP-21A: Y/C DEMODULATOR (SOLDERING SIDE)

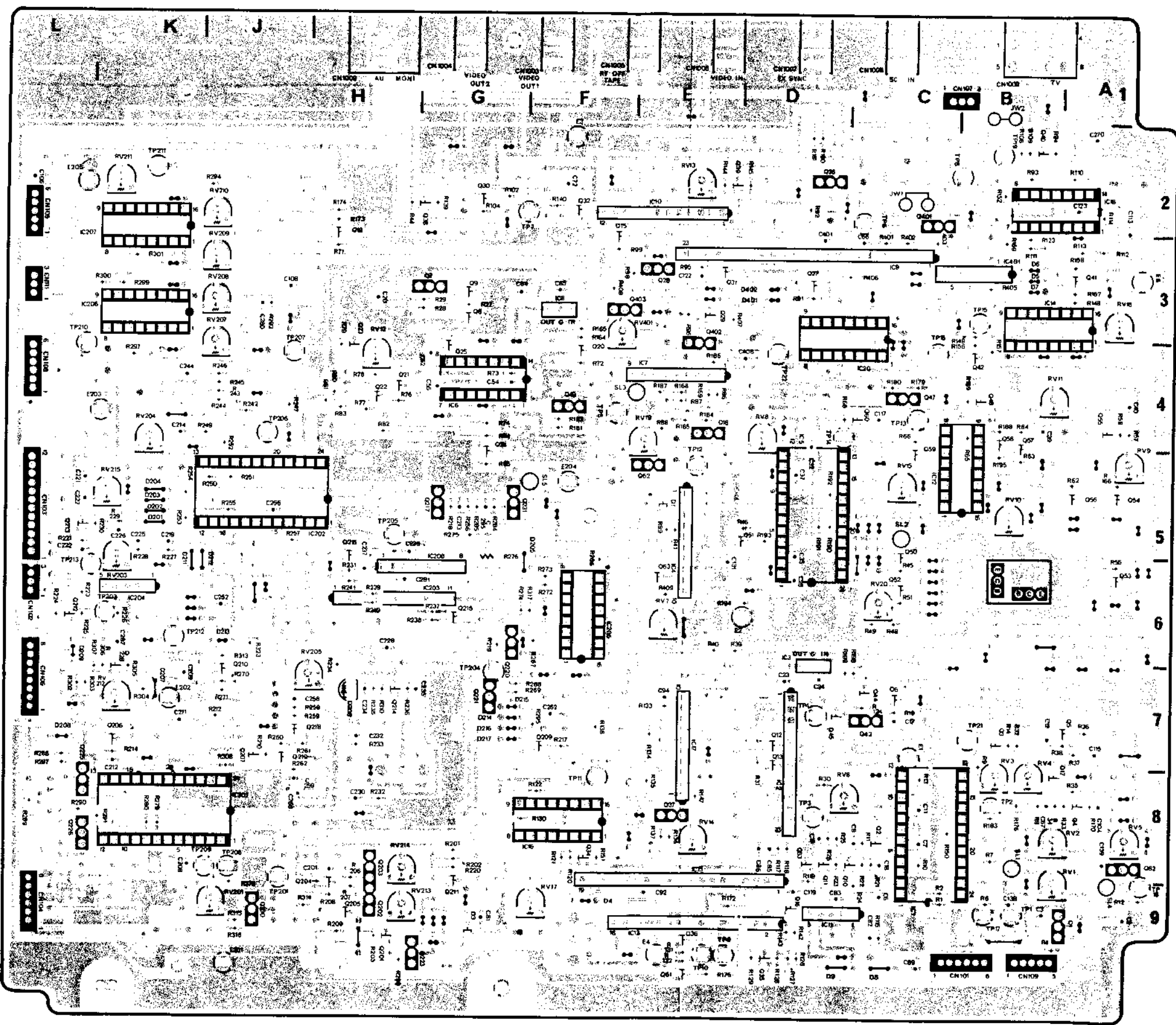
UC; S/N 10251 thru 11250
J; S/N 10051 thru 10150

VP-21A (1-622-392-22)-S



CN101	B-9	IC1	C-8	Q29	E-3	Q226	L-8	TP9
CN102	L-6	IC2	D-7	Q30	G-2	Q228	K-7	TP10
CN103	L-5	IC3	D-6	Q31	E-3	Q230	J-9	TP11
CN104	L-9	IC4	E-5	Q32	F-2	Q231	G-5	TP12
CN105	L-2	IC5	D-5	Q33	D-8	Q401	C-2	TP13
CN106	L-7	IC6	G-4	Q34	F-8	Q402	E-4	TP14
CN107	B-1	IC7	E-4	Q35	D-9	Q403	F-3	TP15
CN108	L-4	IC8	F-3	Q36	E-9			TP16
CN109	B-9	IC9	D-3	Q37	E-8	RV1	B-9	TP17
CN111	L-3	IC10	E-2	Q38	G-2	RV2	B-8	TP18
CN1002	B-1	IC11	D-9	Q39	E-2	RV3	B-8	TP19
CN1003	F-1	IC12	B-5	Q40	B-2	RV4	B-8	TP21
CN1004	G-1	IC13	E-9	Q41	A-3	RV5	A-8	TP22
CN1005	F-1	IC14	B-3	Q42	B-4	RV6	C-8	TP201
CN1006	E-1	IC15	E-8	Q43	C-7	RV7	E-6	TP202
CN1007	D-1			Q44	C-7	RV8	D-4	TP203
CN1008	C-1	IC16	F-8	Q45	D-7	RV9	A-5	TP204
CN1009	H-1	IC17	E-7	Q47	C-4	RV10	B-5	TP205
		IC18	B-2	Q48	B-4	RV11	B-4	TP206
D1	E-5	IC20	C-4	Q49	F-4	RV12	H-4	TP207
D3	G-9	IC201	K-8	Q50	C-6	RV13	E-2	TP208
D4	F-9	IC202	J-5	Q51	D-5	RV14	E-8	TP209
D5	B-3	IC203	H-6	Q52	C-6	RV15	C-5	TP210
D6	B-3	IC204	K-6	Q53	A-6	RV16	A-3	TP211
D7	B-3	IC205	F-6	Q54	A-5	RV17	F-9	TP212
D8	C-9	IC206	K-3	Q55	A-4	RV19	E-4	TP213
D9	D-9	IC207	K-2	Q56	A-5	RV20	C-6	
D201	K-5	IC208	G-6	Q57	B-4	RV201	J-9	
D202	K-5	IC401	B-3	Q58	B-4	RV203	K-6	
D203	K-5			Q59	C-5	RV204	K-4	
D204	K-5	Q1	A-9	Q60	C-4	RV205	H-7	
D205	G-6	Q2	C-8	Q61	E-9	RV207	J-4	
D206	H-7	Q3	B-7	Q62	E-5	RV208	J-3	
D207	K-7	Q4	A-8	Q63	E-6	RV209	J-3	
D208	L-7	Q5	A-7	Q201	H-9	RV210	J-2	
D209	L-6	Q6	C-7	Q202	H-9	RV211	K-2	
D211	K-6	Q7	G-3	Q203	H-8	RV212	K-1	
D212	J-6	Q8	G-3	Q204	H-9	RV213	H-6	
D213	J-6	Q9	G-3	Q205	H-9	RV214	H-8	
D214	G-7	Q10	C-8	Q206	K-7	RV215	K-5	
D215	G-7	Q11	D-8	Q207	J-7	RV401	F-4	
D216	G-7	Q12	D-7	Q209	F-7			
D217	G-7	Q13	D-7	Q210	J-7	SL1	B-8	
D401	D-3	Q15	F-2	Q211	G-9	SL2	C-5	
D402	D-3	Q16	D-9	Q212	L-6	SL3	F-4	
		Q17	B-8	Q213	L-5	SL4	A-6	
E1	C-7	Q18	E-4	Q214	H-7	SL5	F-4	
E2	D-6	Q19	H-2	Q215	G-6			
E3	F-2	Q20	F-4	Q216	H-6	TP1	B-9	
E4	E-9	Q21	H-4	Q217	G-5	TP2	B-8	
E5	A-3	Q22	H-4	Q218	J-7	TP3	D-8	
E201	J-9	Q23	H-4	Q219	J-7	TP4	D-7	
E202	K-7	Q24	G-5	Q220	G-6	TP5	F-4	
E203	K-4	Q25	G-4	Q221	G-7	TP6	C-2	
E204	F-5	Q26	D-2	Q223	G-9	TP7	G-2	
E205	L-2	Q27	D-3	Q225	L-8	TP8	B-2	
		Q28	E-3					

- | | | | | |
|-----|-------|-----|-------|-----|
| E-3 | Q226 | L-8 | TP9 | E-9 |
| G-2 | Q228 | K-7 | TP10 | E-9 |
| E-3 | Q230 | J-9 | TP11 | F-8 |
| F-2 | Q231 | G-5 | TP12 | E-5 |
| D-8 | Q401 | C-2 | TP13 | C-4 |
| F-8 | Q402 | E-4 | TP14 | D-4 |
| D-9 | Q403 | F-3 | TP15 | B-3 |
| E-9 | | | TP16 | C-4 |
| E-8 | RV1 | B-9 | TP17 | B-9 |
| G-2 | RV2 | B-8 | TP18 | A-9 |
| F-2 | RV3 | B-8 | TP19 | B-2 |
| F-2 | RV4 | B-8 | TP21 | B-7 |
| A-3 | RV5 | A-8 | TP22 | D-4 |
| B-4 | RV6 | C-8 | TP201 | J-8 |
| D-7 | RV7 | E-6 | TP202 | K-8 |
| D-7 | RV8 | D-4 | TP203 | K-6 |
| D-7 | RV9 | A-5 | TP204 | G-7 |
| C-4 | RV10 | B-5 | TP205 | H-5 |
| F-4 | RV11 | B-4 | TP206 | J-4 |
| F-4 | RV12 | H-4 | TP207 | J-4 |
| C-6 | RV13 | E-2 | TP208 | J-8 |
| D-5 | RV14 | E-8 | TP209 | J-8 |
| C-6 | RV15 | C-5 | TP210 | L-4 |
| V-6 | RV16 | A-3 | TP211 | K-2 |
| V-5 | RV17 | F-9 | TP212 | K-6 |
| A-4 | RV19 | E-4 | TP213 | K-6 |
| A-5 | RV20 | C-6 | | |
| F-4 | RV201 | J-9 | | |
| F-4 | RV203 | K-6 | | |
| C-5 | RV204 | K-4 | | |
| C-4 | RV205 | H-7 | | |
| F-9 | RV207 | J-4 | | |
| F-5 | RV208 | J-3 | | |
| E-6 | RV209 | J-3 | | |
| H-9 | RV210 | J-2 | | |
| F-9 | RV211 | K-2 | | |
| F-8 | RV212 | K-7 | | |
| H-9 | RV213 | H-9 | | |
| H-9 | RV214 | H-8 | | |
| F-7 | RV215 | K-5 | | |
| F-7 | RV401 | F-4 | | |
| F-7 | | | | |
| J-7 | SL1 | B-8 | | |
| F-9 | SL2 | C-5 | | |
| F-6 | SL3 | F-4 | | |
| F-5 | SL4 | A-9 | | |
| H-7 | SL5 | F-4 | | |
| F-6 | | | | |
| F-6 | TP1 | B-9 | | |
| F-5 | TP2 | B-8 | | |
| J-7 | TP3 | D-8 | | |
| F-7 | TP4 | D-7 | | |
| F-6 | TP5 | F-4 | | |
| F-7 | TP6 | C-2 | | |
| G-9 | TP7 | G-2 | | |
| L-8 | TP8 | B-2 | | |



VP-21A
 -SOLDERING SIDE-
 I-622-392-22
 VP-9009

VP-21A:Y/C DEMODULATOR (COMPONENT SIDE)

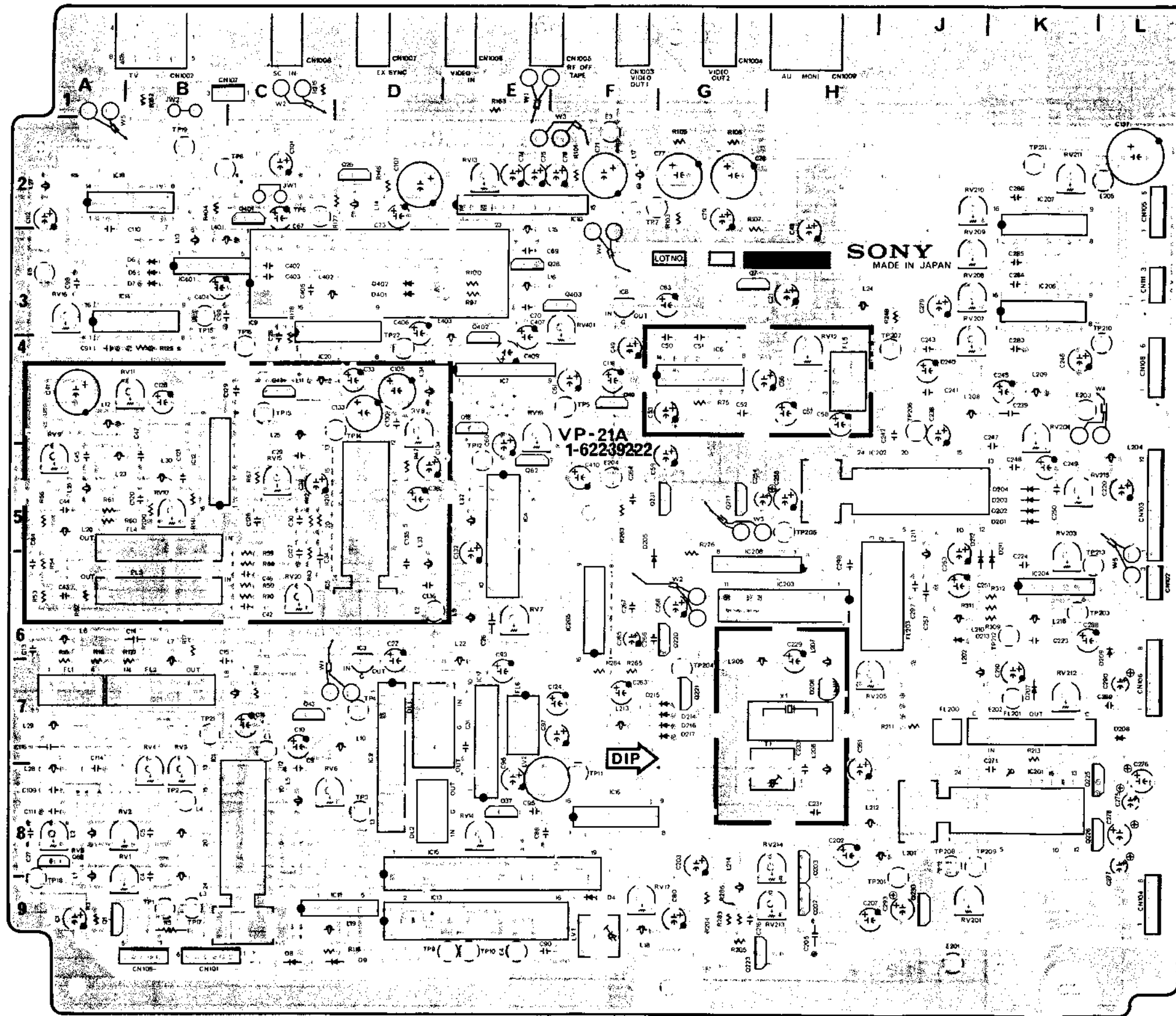
UC; S/N 10251 thru 11250
 J; S/N 10051 thru 10150

VP-21A (1-622-392-22)-C

CN101	B-9	FL1	A-7	Q221	G-7
CN102	L-6	FL2	B-7	Q223	H-9
CN103	L-5	FL3	B-6	Q225	L-8
CN104	L-9	FL4	B-5	Q226	L-8
CN105	L-2	FL5	H-4	Q230	J-9
CN106	L-7	FL6	E-7	Q231	G-5
CN107	B-1	FL200	J-7	Q401	C-2
CN108	L-4	FL201	K-7	Q402	E-4
CN109	B-9	FL203	J-6	Q403	F-3
CN111	L-3				
CN1002	B-1	IC1	C-8	RV1	B-9
CN1003	F-1	IC2	D-7	RV2	B-8
CN1004	G-1	IC3	D-6	RV3	B-8
CN1005	F-1	IC4	E-5	RV4	B-8
CN1006	E-1	IC5	D-5	RV5	A-8
CN1007	D-1	IC6	G-4	RV6	C-8
CN1008	C-1	IC7	E-4	RV7	E-6
CN1009	H-1	IC8	F-3	RV8	D-4
		IC9	D-3	RV9	A-5
D4	F-9	IC10	E-2	RV10	B-5
D5	B-3	IC11	D-9	RV11	B-4
D6	B-3	IC12	B-5	RV12	H-4
D7	B-3	IC13	E-9	RV13	E-2
D8	C-9	IC14	B-3	RV14	E-8
D9	D-9	IC15	E-8	RV15	C-5
D201	K-5	IC16	F-8	RV16	A-3
D202	K-5	IC17	E-7	RV17	F-9
D203	K-5	IC18	B-2	RV19	E-4
D204	K-5	IC20	C-4	RV20	C-6
D205	F-6	IC201	K-8	RV201	J-9
D207	K-7	IC202	J-5	RV203	K-6
D208	L-7	IC203	H-6	RV204	K-5
D209	L-6	IC204	K-6	RV205	J-7
D211	K-6	IC205	F-6	RV207	J-4
D212	J-6	IC206	K-3	RV208	J-3
D213	J-6	IC207	K-2	RV209	J-3
D214	G-7	IC208	G-6	RV210	J-2
D215	G-7	IC401	B-3	RV211	K-2
D216	G-7			RV212	K-7
D217	G-7	LV1	F-9	RV213	H-9
D401	D-3	LV2	E-8	RV214	H-8
D402	D-3			RV215	K-5
		Q1	A-9	RV401	F-4
DL1	D-7	Q7	G-3		
DL2	D-8	Q18	E-4	T1	H-8
		Q26	D-2		
E1	C-7	Q28	E-3	TP1	B-9
E2	D-6	Q37	E-8	TP2	B-8
E3	F-2	Q43	C-7	TP3	D-8
E4	E-9	Q47	C-4	TP4	D-7
E5	A-3	Q49	F-4	TP5	F-4
E201	J-9	Q62	E-5	TP6	C-2
E202	K-7	Q202	H-9	TP7	F-2
E203	K-4	Q203	H-8	TP8	B-2
E204	F-5	Q217	G-5	TP9	E-9
E205	L-2	Q220	G-6	TP10	E-9

22 3

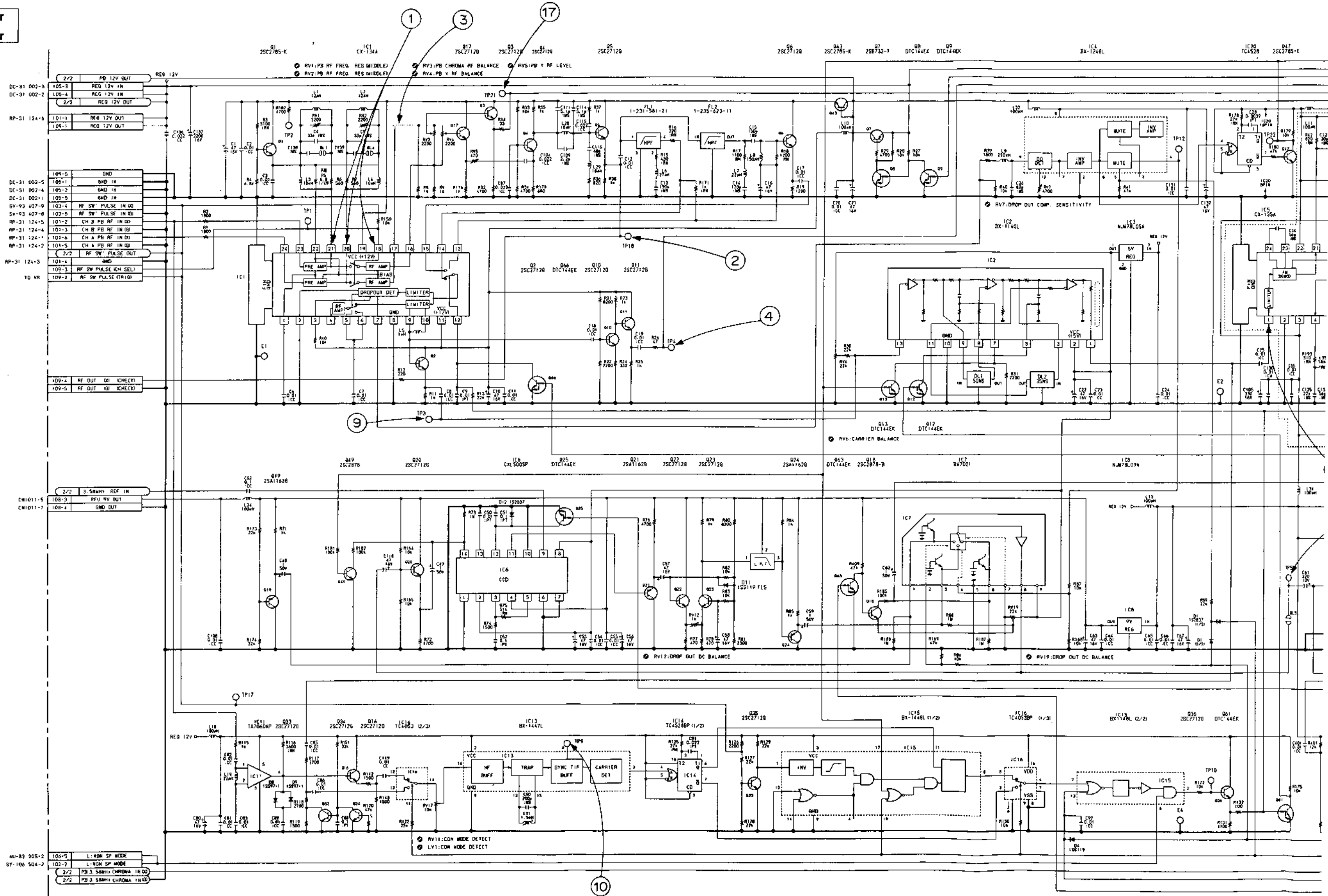
A-7	Q221	G-7	TP11	F-8
B-7	Q223	H-9	TP12	E-5
B-6	Q225	L-8	TP13	C-4
B-5	Q226	L-8	TP14	D-4
H-4	Q230	J-9	TP15	B-3
E-7	Q231	G-5	TP16	C-4
J-7	Q401	C-2	TP17	B-9
K-7	Q402	E-4	TP18	A-9
J-6	Q403	F-3	TP19	B-2
C-8	RV1	B-9	TP21	B-7
D-7	RV2	B-8	TP22	D-4
D-6	RV3	B-8	TP201	J-9
E-5	RV4	B-8	TP202	K-8
D-5	RV5	A-8	TP203	K-6
G-4	RV6	C-8	TP204	G-7
E-4	RV7	E-6	TP205	H-5
F-3	RV8	D-4	TP206	J-4
D-3	RV9	A-5	TP207	J-4
E-2	RV10	B-5	TP208	J-8
D-9	RV11	B-4	TP209	J-8
B-5	RV12	H-4	TP210	L-4
E-9	RV13	E-2	TP211	K-2
B-3	RV14	E-8	TP212	K-6
E-8	RV15	C-5	TP213	K-6
F-8	RV16	A-3	X1	H-7
E-7	RV17	F-9		
B-2	RV19	E-4		
C-4	RV20	C-6		
K-8	RV201	J-9		
J-5	RV203	K-6		
H-6	RV204	K-5		
K-6	RV205	J-7		
F-6	RV207	J-4		
K-3	RV208	J-3		
K-2	RV209	J-3		
G-6	RV210	J-2		
B-3	RV211	K-2		
	RV212	K-7		
F-9	RV213	H-9		
E-8	RV214	H-8		
	RV215	K-5		
A-9	RV401	F-4		
G-3				
E-4	T1	H-8		
J-2				
E-3	TP1	B-9		
E-8	TP2	B-8		
C-7	TP3	D-8		
C-4	TP4	D-7		
F-4	TP5	F-4		
E-5	TP6	C-2		
H-9	TP7	F-2		
H-8	TP8	B-2		
G-5	TP9	E-9		
G-6	TP10	E-9		

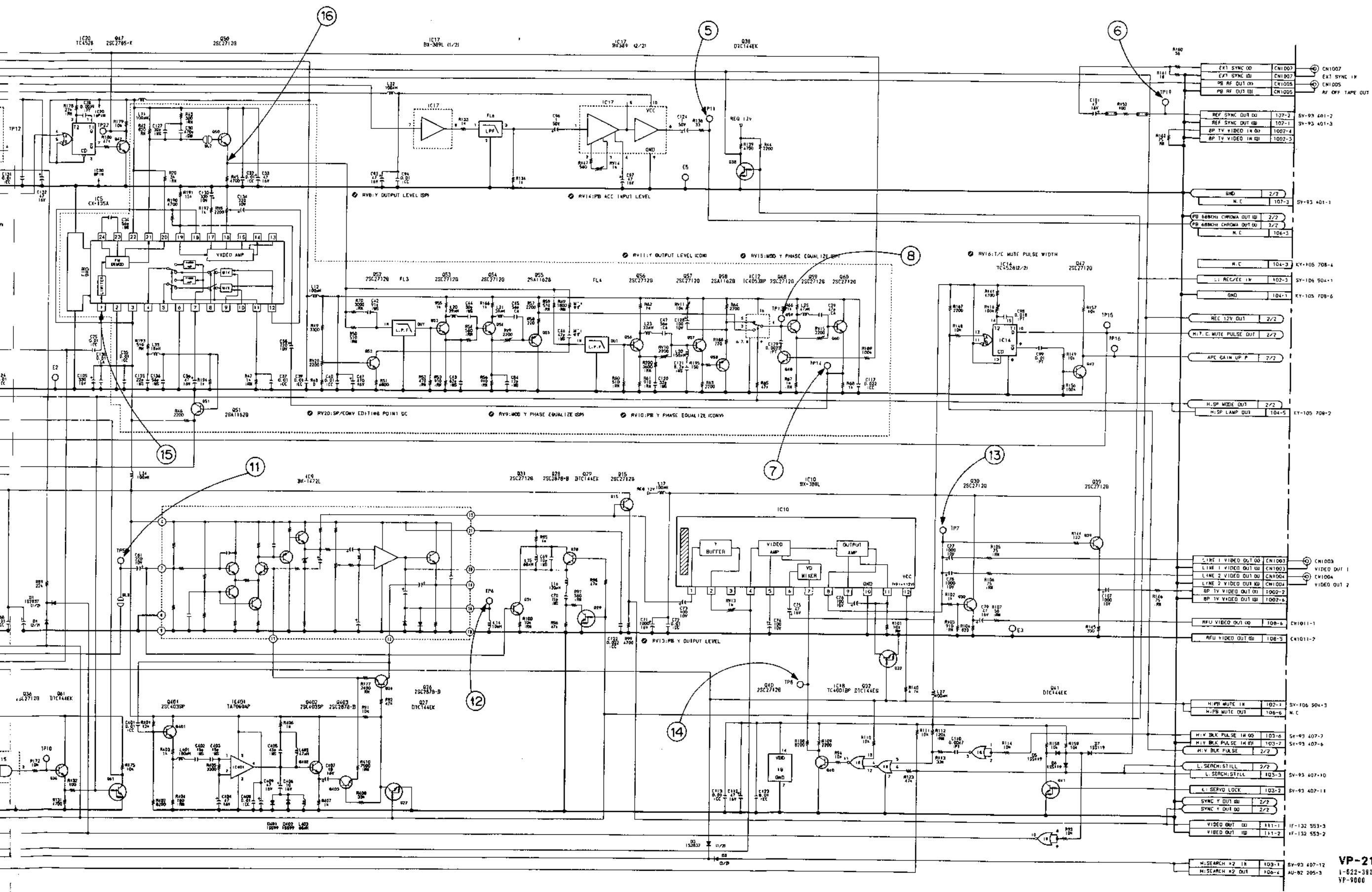


VP-21A
-COMPONENT SIDE-
1-622-892-22
VP-3000

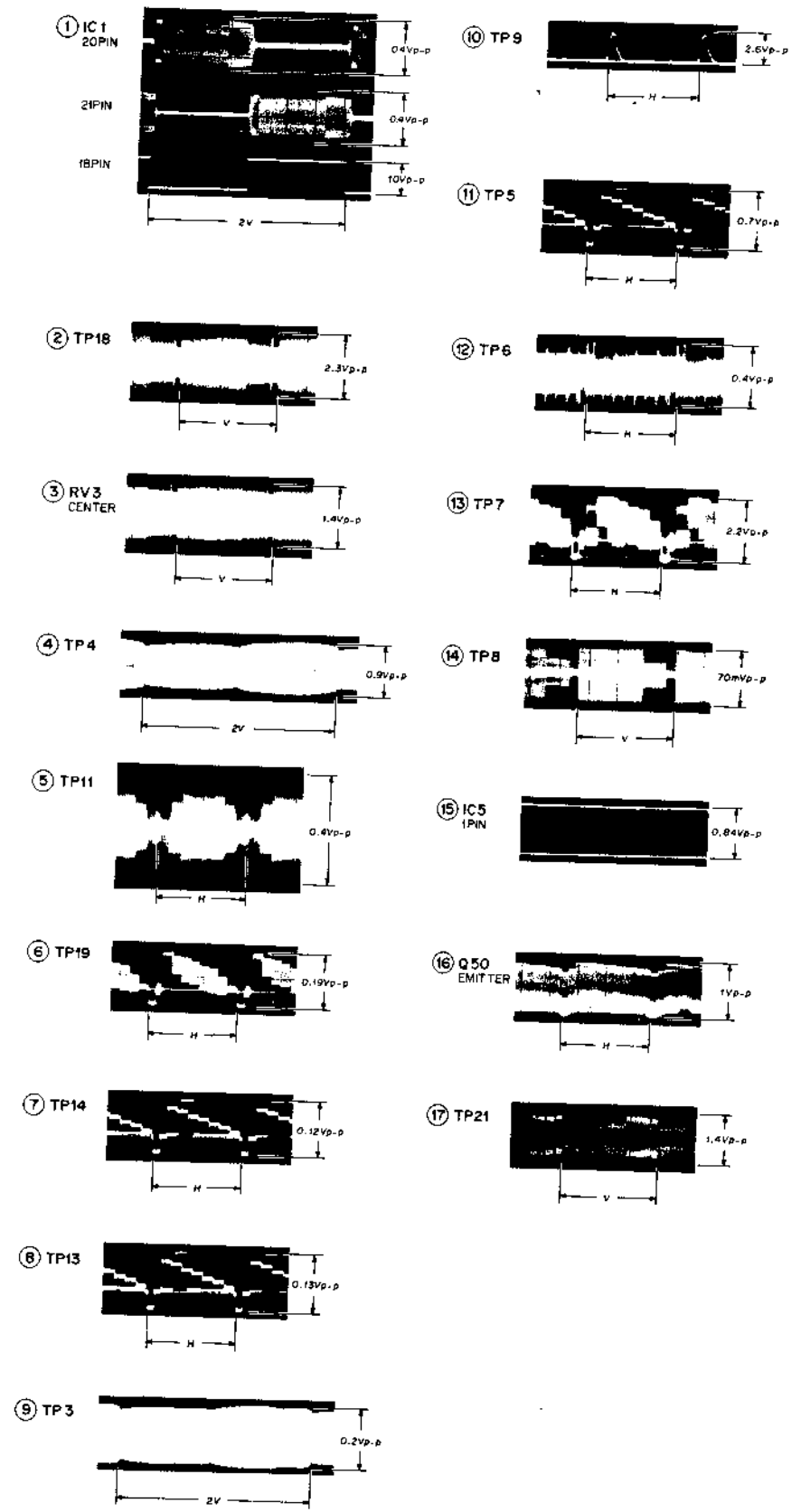
VP-21A(1/2): Y/C DEMODULATOR

UC; S/N 11251 and higher
 J; S/N 10151 and higher





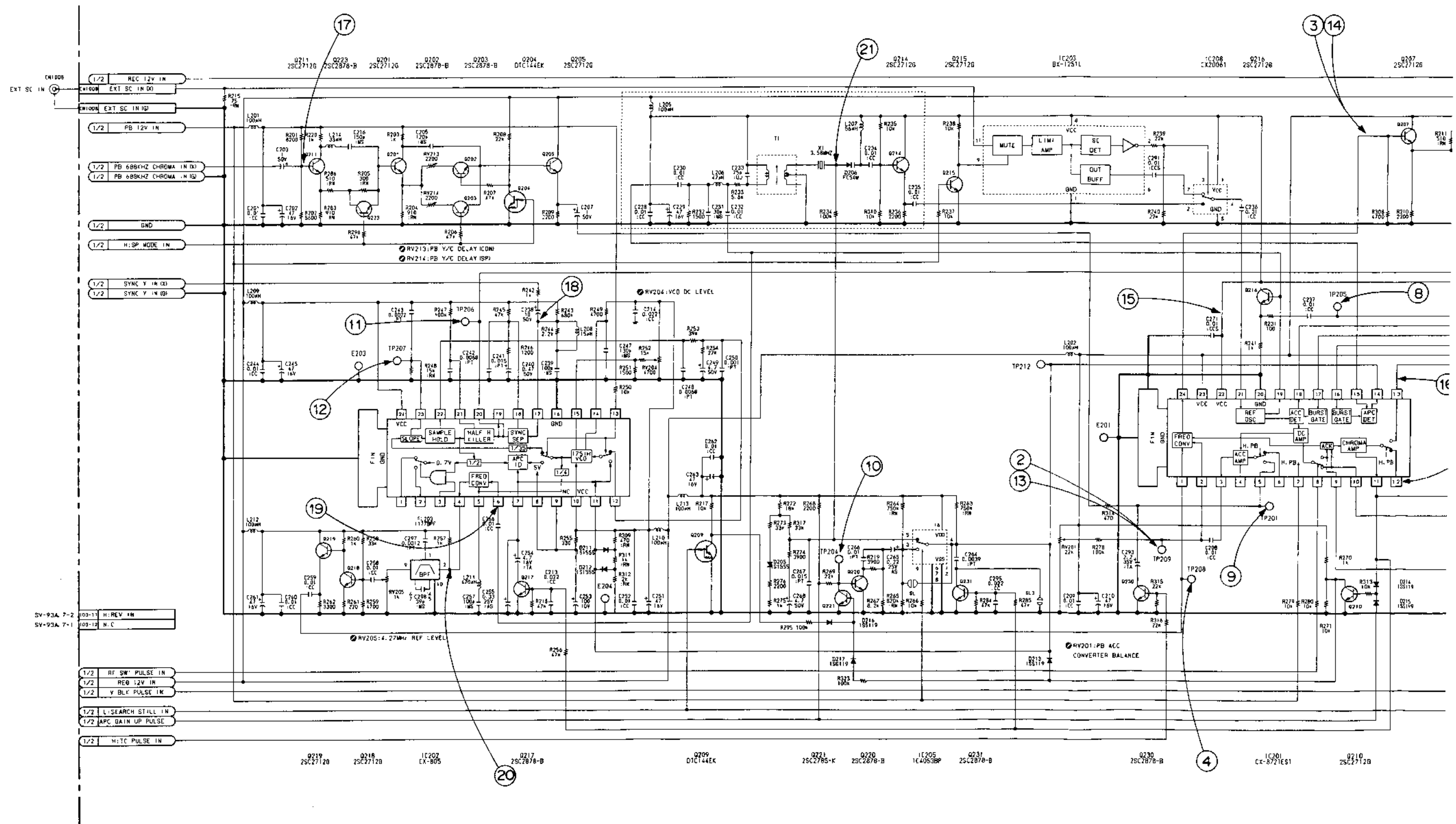
EX1 SYNC IN	CN1007
EX1 SYNC IN	CN1007
EX1 SYNC IN	CN1007
AF OFF TAPE OUT	CN1005
REF SYNC OUT DU	107-2
REF SYNC OUT UB	107-1
BP TV VIDEO IN DU	1007-4
BP TV VIDEO IN UB	1007-3
2/2	107-3
N.C.	107-3
SY-93 401-1	
PB 480KHz CHROMA OUT DU	2/2
PB 480KHz CHROMA OUT UB	2/2
N.C.	106-3
104-3	
SY-93 401-1	
L REC/EE IN	102-3
104-1	
SY-106 708-4	
REC 12V OUT	2/2
M.Y. C. MUTE PULSE OUT	2/2
APC GAIN UP P	2/2
104-5	
SY-106 708-6	
H.SP. MUTE OUT	2/2
M.SP. LAMP OUT	104-5
ET-105 708-2	
LINE 1 VIDEO OUT DU	CN1003
LINE 1 VIDEO OUT UB	CN1003
LINE 2 VIDEO OUT DU	CN1004
LINE 2 VIDEO OUT UB	CN1004
BP TV VIDEO OUT DU	1002-2
BP TV VIDEO OUT UB	1002-6
108-6	
CN1011-1	
AFU VIDEO OUT DU	108-5
CN1011-2	
H.F.P. MUTE IN	102-1
H.F.P. MUTE OUT	108-6
N.C.	
SY-93 407-3	
M.Y. BLK PULSE IN DU	103-6
M.Y. BLK PULSE IN UB	103-7
M.Y. BLK PULSE	2/2
SY-93 407-6	
L. SERCH: STILL	2/2
L. SERCH: STILL	103-3
SY-93 407-10	
L. SERVO LOCK	103-2
SY-93 407-11	
SYNC Y OUT DU	2/2
SYNC Y OUT UB	2/2
1/1-1	
IF-132 553-3	
VIDE OUT DU	1/1-2
IF-132 553-2	
M. SERCH #2 IN	103-1
M. SERCH #2 OUT	106-4
SY-93 407-12	
AU-82 205-3	



VP-21A(2/2): Y/C DEMODULATOR

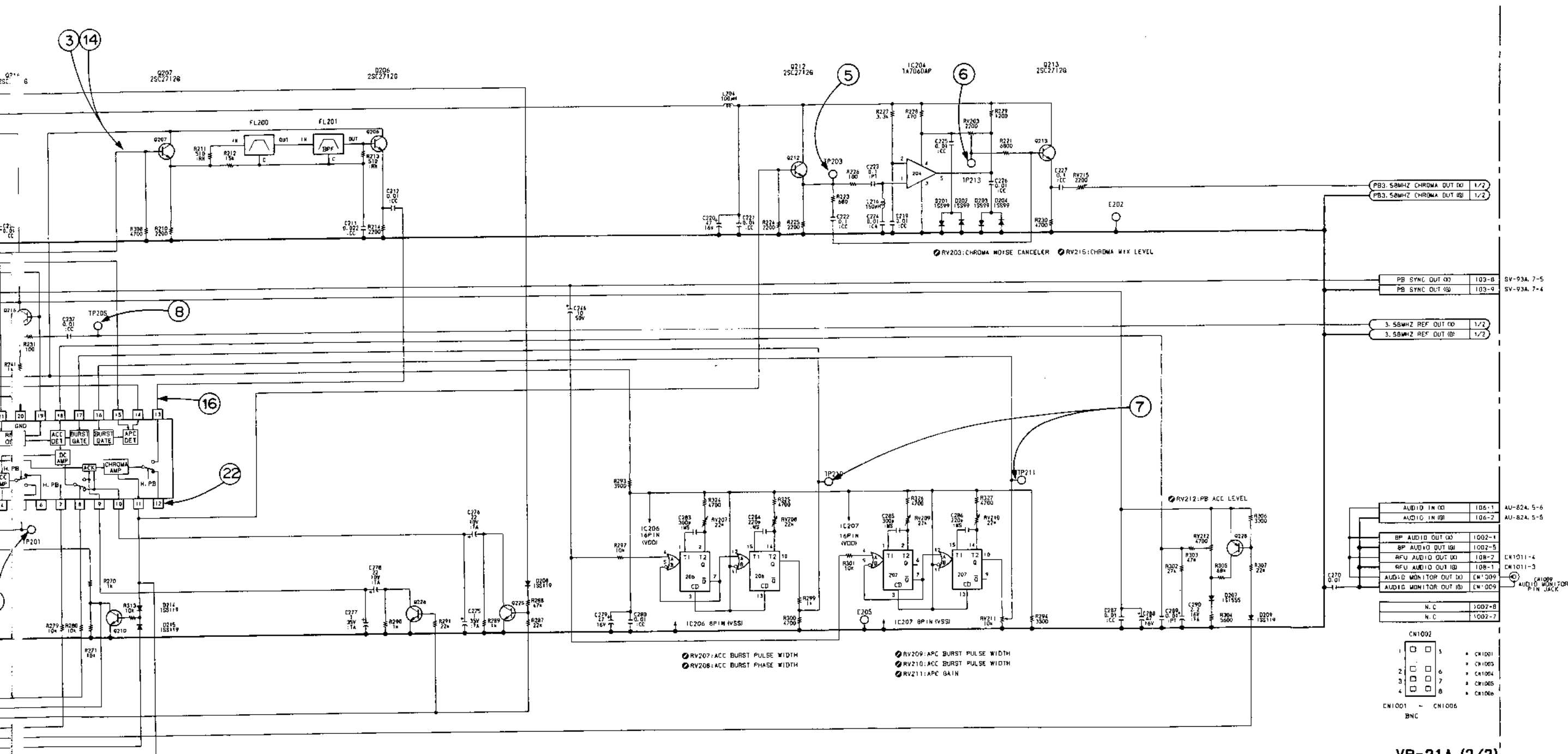
UC; S/N 11251 and higher

J; S/N 10151 and higher



SV-93A, 7-2 103-11 H:REV 4M
SV-93A, 7-1 103-12 N.C

1/2 RF SW PULSE IN
1/2 REG 12V IN
1/2 Y BLY PULSE IN
1/2 L-SEARCH STILL IN
1/2 APC GAIN UP PULSE
1/2 H:TC PULSE IN



PB3. 58MHZ CHROMA OUT (O)	103-1	1/2
PB3. 58MHZ CHROMA OUT (B)	103-2	1/2
PB SYNC OUT (O)	103-B	
PB SYNC OUT (B)	103-9	
3. 58MHZ REF OUT (O)		1/2
3. 58MHZ REF OUT (B)		1/2

SV-93A. 7-5
SV-93A. 7-4

AUDIO IN (O)	106-1	AU-82A. 5-6
AUDIO IN (B)	106-2	AU-82A. 5-5
BP AUDIO OUT (O)	1002-1	
BP AUDIO OUT (B)	1002-5	
RFU AUDIO OUT (O)	108-2	EN1011-4
RFU AUDIO OUT (B)	108-1	EN1011-3
AUD-D MONITOR OUT (O)	EN*009	
AUDIG MONITOR OUT (B)	EN*009	AUDIO MONITOR FOR P.I.N. JACK
N.C.	1002-8	
N.C.	1002-7	

CN1002

1	<input type="checkbox"/>	5	• CN1001
2	<input type="checkbox"/>	6	• CN1003
3	<input type="checkbox"/>	7	• CN1004
4	<input type="checkbox"/>	8	• CN1005
			• CN1006

CN1001 - CN1006
BNC

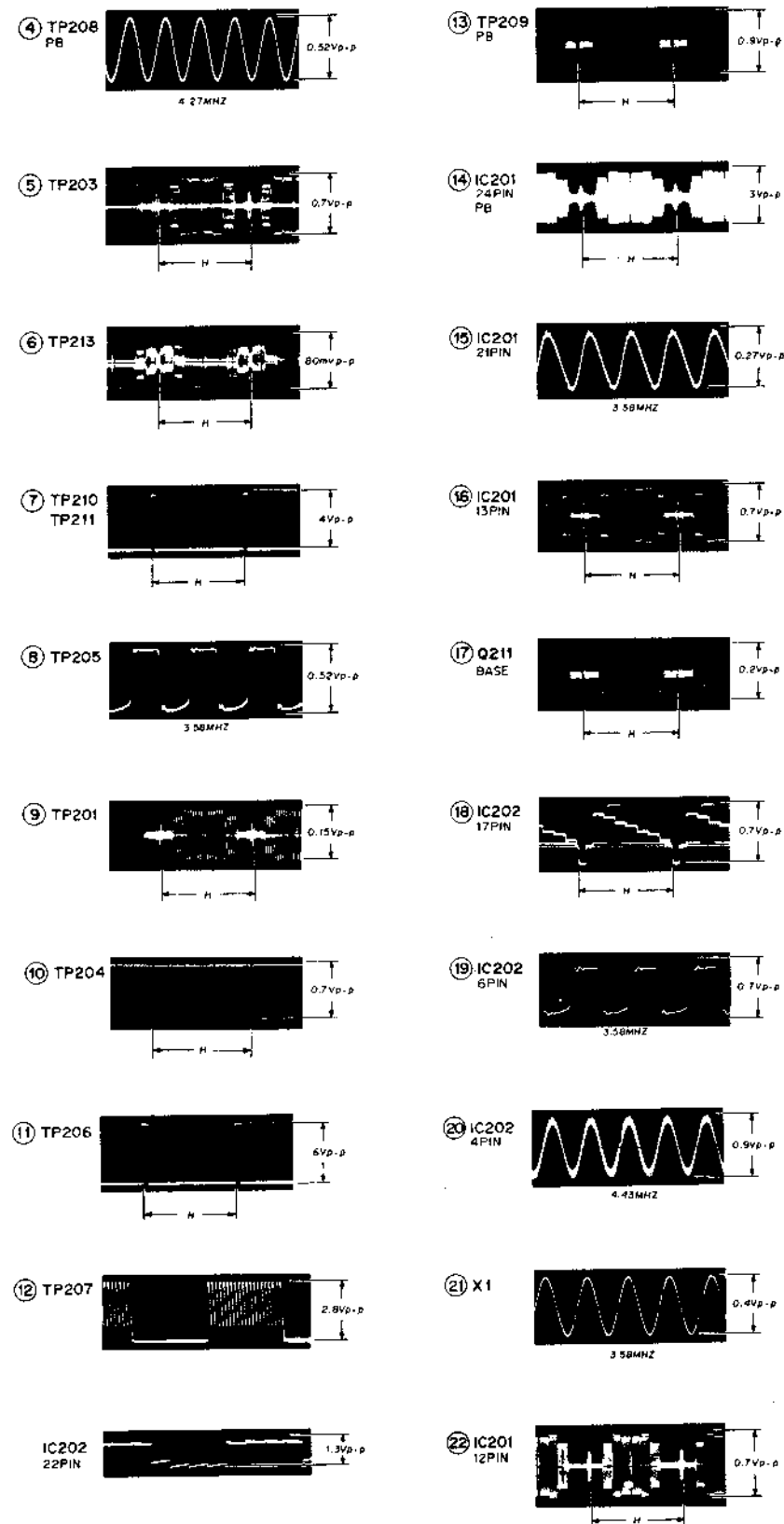
VP-21A (2/2)
1-622-392-23
VP-9000

- IC201 X-8721ES1
- Q210 2SC2712G
- Q226 2SC2878-B
- Q225 2SC2878-B
- IC206 1C4528BP (1/2)
- IC206 1C4528BP (2/2)
- IC207 1C4528BP (1/2)
- IC207 1C4528BP (2/2)
- Q228 2SA1102B

VP-21A:Y/C DEMODULATOR (SOLDERING SIDE)

UC; S/N 11251 and higher
 J; S/N 10151 and higher

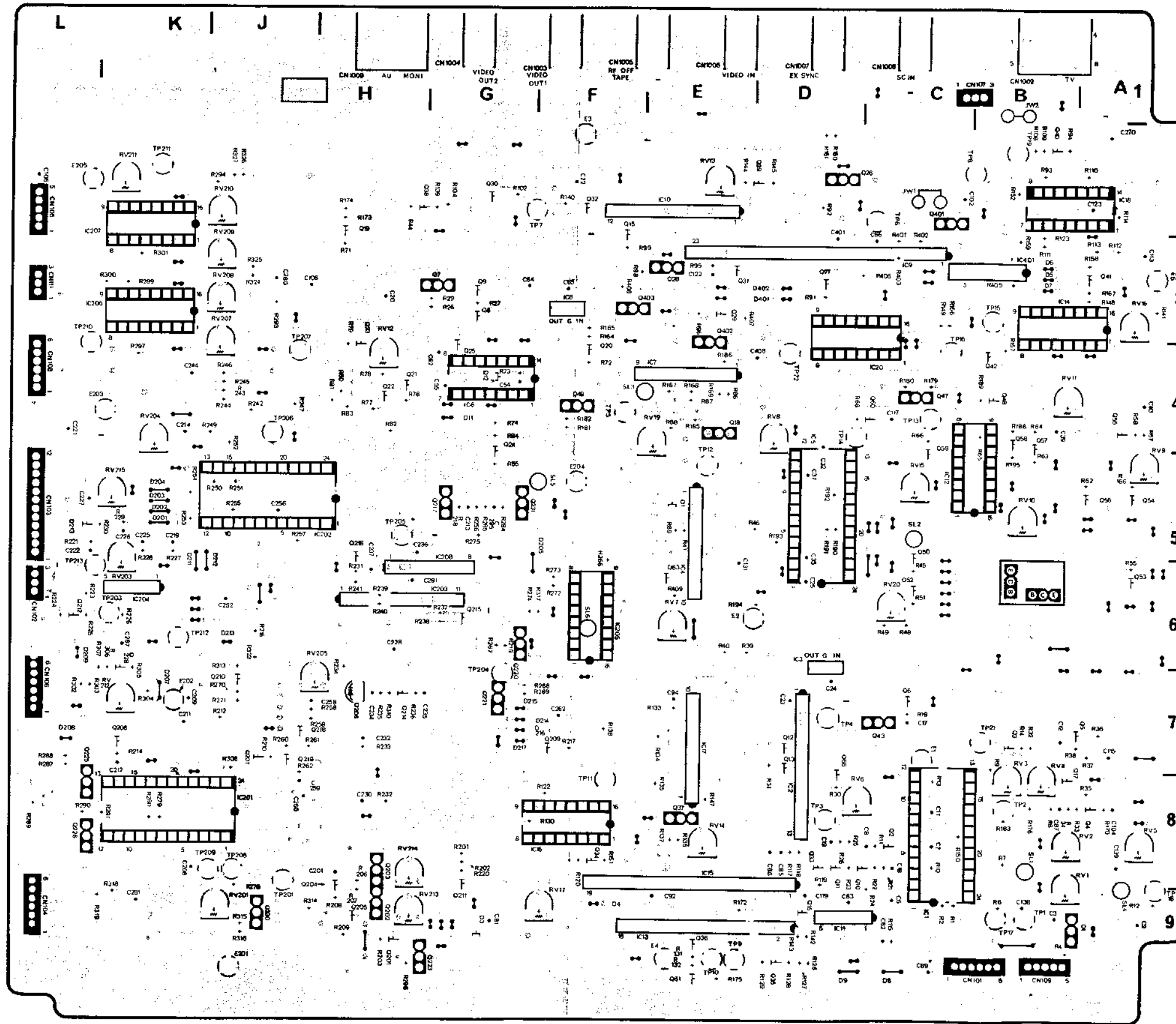
VP-21A (1-622-392-23)-S



CN101	B-9	E204	F-5	Q26	D-2	Q226	I
CN102	L-6	E205	L-2	Q27	D-3	Q228	I
CN103	L-5			Q28	E-3	Q230	
CN104	L-9	IC1	C-8	Q29	E-3	Q231	
CN105	L-2	IC2	D-7	Q30	G-2	Q401	
CN106	L-7	IC3	D-6	Q31	E-3	Q402	I
CN107	B-1	IC4	E-5	Q32	F-2	Q403	I
CN108	L-4	IC5	D-5	Q33	D-8		
CN109	B-9	IC6	G-4	Q34	F-8	RV1	
CN111	L-3	IC7	E-4	Q35	D-9	RV2	
CN1002	B-1	IC8	F-3	Q36	E-9	RV3	
CN1003	F-1	IC9	D-3	Q37	E-8	RV4	
CN1004	G-1	IC10	E-2	Q38	H-2	RV5	
CN1005	F-1	IC11	D-9	Q39	D-2	RV6	
CN1006	E-1	IC12	B-5	Q40	B-2	RV7	
CN1007	D-1	IC13	E-9	Q41	A-3	RV8	
CN1008	C-1	IC14	B-3	Q42	B-4	RV9	
CN1009	H-1	IC15	E-8	Q43	C-7	RV10	
		IC16	F-8	Q47	C-4	RV11	
D1	E-5	IC17	E-7	Q48	B-4	RV12	
D3	G-9	IC18	B-2	Q49	F-4	RV13	
D4	F-9	IC20	C-4	Q50	C-6	RV14	
D5	B-3	IC201	K-8	Q52	C-6	RV15	
D6	B-3	IC202	J-5	Q53	A-6	RV16	
D7	B-3	IC203	H-6	Q54	A-5	RV17	
D8	C-9	IC204	K-6	Q55	A-4	RV19	
D9	D-9	IC205	F-6	Q56	A-5	RV20	
D11	G-4	IC206	K-3	Q57	B-4	RV201	
D12	G-4	IC207	K-2	Q58	B-4	RV203	
D201	K-5	IC208	G-6	Q59	C-5	RV204	
D202	K-5	IC401	B-3	Q60	C-4	RV205	
D203	K-5			Q61	E-9	RV207	
D204	K-5	Q1	A-9	Q63	E-6	RV208	
D205	G-6	Q2	C-8	Q66	D-8	RV209	
D206	H-7	Q3	B-7	Q201	H-9	RV210	
D207	K-7	Q4	A-8	Q202	H-9	RV211	
D208	L-7	Q5	A-7	Q203	H-8	RV212	
D209	L-6	Q6	C-7	Q204	H-9	RV213	
D211	K-6	Q7	G-3	Q205	H-9	RV214	
D212	J-6	Q8	G-3	Q206	K-7	RV215	
D213	J-6	Q9	G-3	Q207	J-7		
D214	G-7	Q10	C-8	Q209	F-7	SL1	
D215	G-7	Q11	D-8	Q210	J-7	SL2	
D216	G-7	Q12	D-7	Q211	G-9	SL3	
D217	G-7	Q13	D-7	Q212	L-6	SL4	
D401	D-3	Q15	F-3	Q213	L-5	SL5	
D402	D-3	Q16	D-9	Q214	H-7	SL6	
		Q17	A-8	Q215	G-6		
E1	C-7	Q18	E-4	Q216	H-6	TP1	
E2	D-6	Q19	H-3	Q217	G-5	TP2	
E3	F-2	Q20	F-4	Q218	J-7	TP3	
E4	E-9	Q21	H-4	Q219	J-7	TP4	
E5	A-3	Q22	H-4	Q220	G-6	TP5	
E201	J-9	Q23	H-4	Q221	G-7	TP7	
E202	K-7	Q24	G-5	Q223	H-9	TP8	
E203	K-4	Q25	G-4	Q225	L-8	TP9	

92 3)-S

E204	F-5	Q26	D-2	Q226	L-8	TP10	E-9
E205	L-2	Q27	D-3	Q228	K-7	TP11	F-8
		Q28	E-3	Q230	J-9	TP12	E-5
IC	C-8	Q29	E-3	Q231	G-5	TP13	C-4
IC2	D-7	Q30	G-2	Q401	C-2	TP14	D-4
IC3	D-6	Q31	E-3	Q402	E-4	TP15	B-3
IC4	E-5	Q32	F-2	Q403	F-3	TP16	C-4
IC5	D-5	Q33	D-8			TP17	B-9
IC6	G-4	Q34	F-8	RV1	B-9	TP18	A-9
IC7	E-4	Q35	D-9	RV2	B-8	TP19	B-2
IC8	F-3	Q36	E-9	RV3	B-8	TP21	B-7
IC9	D-3	Q37	E-8	RV4	B-8	TP22	D-4
IC10	E-2	Q38	H-2	RV5	A-8	TP201	J-9
IC11	D-9	Q39	D-2	RV6	C-8	TP203	K-6
IC12	B-5	Q40	B-2	RV7	E-6	TP204	G-7
IC13	E-9	Q41	A-3	RV8	D-4	TP205	H-5
IC14	B-3	Q42	B-4	RV9	A-5	TP206	J-4
IC15	E-8	Q43	C-7	RV10	B-5	TP207	J-4
IC16	F-8	Q47	C-4	RV11	B-4	TP208	J-8
IC17	E-7	Q48	B-4	RV12	H-4	TP209	J-8
IC18	B-2	Q49	F-4	RV13	E-2	TP210	L-4
IC20	C-4	Q50	C-6	RV14	E-8	TP211	K-2
IC201	K-8	Q52	C-6	RV15	C-5	TP212	K-6
IC202	J-5	Q53	A-6	RV16	A-3	TP213	K-6
IC203	H-6	Q54	A-5	RV17	F-9		
IC204	K-6	Q55	A-4	RV19	E-4		
IC205	F-6	Q56	A-5	RV20	C-6		
IC206	K-3	Q57	B-4	RV201	J-9		
IC207	K-2	Q58	B-4	RV203	K-6		
IC208	G-6	Q59	C-5	RV204	K-5		
IC401	B-3	Q60	C-4	RV205	H-7		
		Q61	E-9	RV207	J-4		
Q1	A-9	Q63	E-6	RV208	J-3		
Q2	C-8	Q66	D-8	RV209	J-3		
Q3	B-7	Q201	H-9	RV210	J-2		
Q4	A-8	Q202	H-9	RV211	K-2		
Q5	A-7	Q203	H-8	RV212	K-7		
Q6	C-7	Q204	H-9	RV213	H-9		
Q7	G-3	Q205	H-9	RV214	H-8		
Q8	G-3	Q206	K-7	RV215	K-5		
Q9	G-3	Q207	J-7				
Q10	C-8	Q209	F-7	SL1	B-8		
Q11	D-8	Q210	J-7	SL2	C-5		
Q12	D-7	Q211	G-9	SL3	F-4		
Q13	D-7	Q212	L-6	SL4	A-9		
Q14	F-3	Q213	L-5	SL5	F-5		
Q16	D-9	Q214	H-7	SL6	F-6		
Q17	A-8	Q215	G-6				
Q18	E-4	Q216	H-6	TP1	B-9		
Q19	H-3	Q217	G-5	TP2	B-8		
Q20	F-4	Q218	J-7	TP3	D-8		
Q21	H-4	Q219	J-7	TP4	D-7		
Q22	H-4	Q220	G-6	TP5	F-4		
Q23	H-4	Q221	G-7	TP7	G-2		
Q24	G-5	Q223	H-9	TP8	B-2		
Q25	G-4	Q225	L-8	TP9	E-9		



VP-21A
 -SOLDERING SIDE-
 1-622-382-23
 VP-9000

VP-21A:Y/C DEMODULATOR(COMPONENT SIDE)

UC; S/N 11251 and higher

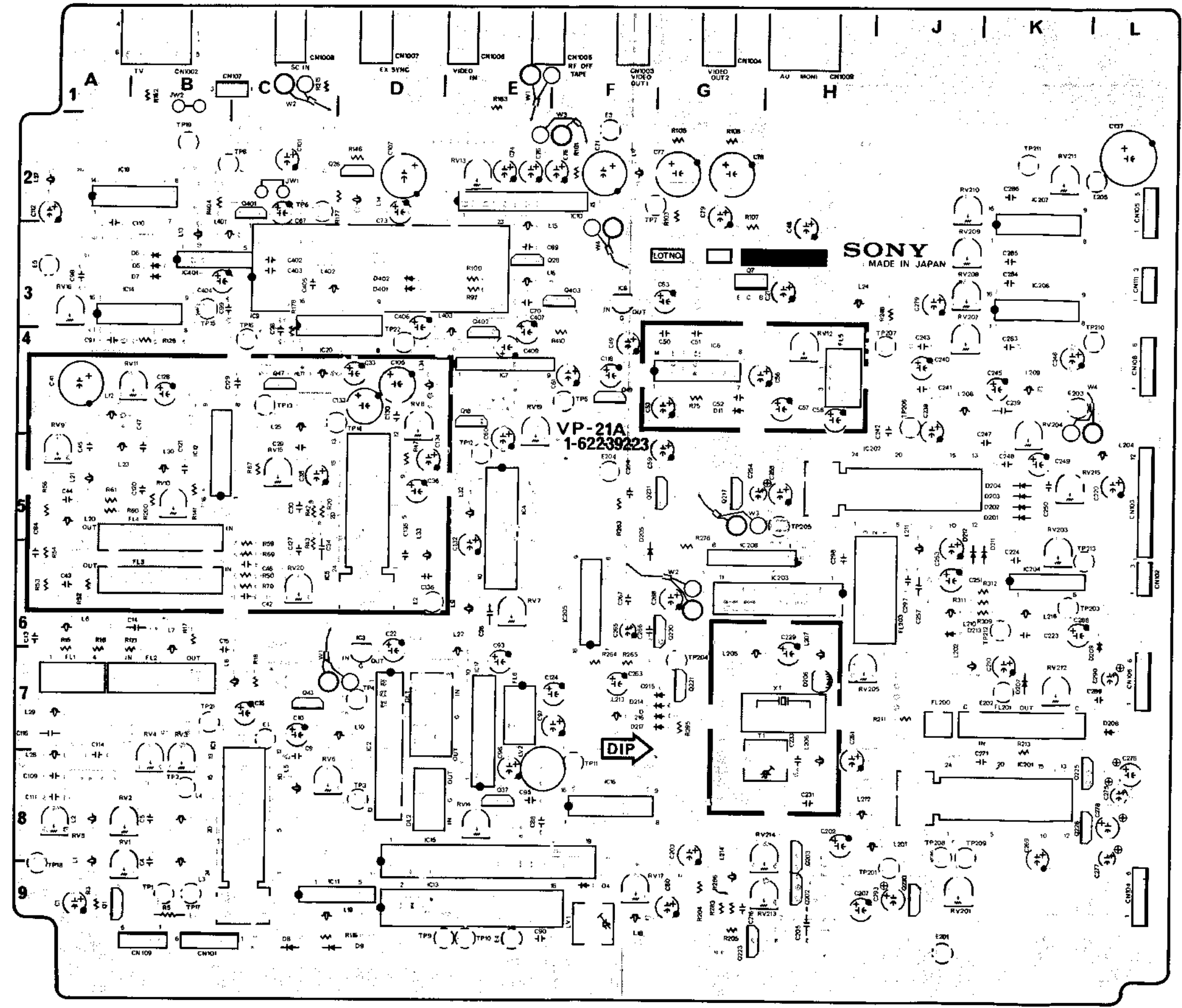
J; S/N 10151 and higher

VP-21A (1-622-392-23)-C

CN101	B-9	E205	L-2	Q220	G-6
CN102	L-6			Q221	G-7
CN103	L-5	FL1	A-7	Q223	H-9
CN104	L-9	FL2	B-7	Q225	L-8
CN105	L-2	FL3	B-6	Q226	L-8
CN106	L-7	FL4	B-5	Q230	J-9
CN107	B-1	FL5	H-4	Q231	G-5
CN108	L-4	FL6	E-7	Q401	C-2
CN109	B-9	FL200	J-7	Q402	E-4
CN111	L-3	FL201	K-7	Q403	F-3
CN1002	B-1	FL203	J-6		
CN1003	F-1			RV1	B-9
CN1004	G-1	IC1	C-8	RV2	B-8
CN1005	E-1	IC2	D-7	RV3	B-8
CN1006	E-1	IC3	D-7	RV4	B-8
CN1007	D-1	IC4	E-5	RV5	A-8
CN1008	C-1	IC5	D-5	RV6	C-8
CN1009	H-1	IC6	G-4	RV7	E-6
		IC7	E-4	RV8	D-4
D4	F-9	IC8	F-3	RV9	A-5
D5	B-3	IC9	D-3	RV10	B-5
D6	B-3	IC10	E-2	RV11	B-4
D7	B-3	IC11	D-9	RV12	H-4
D8	C-9	IC12	B-5	RV13	E-2
D9	D-9	IC13	E-9	RV14	E-8
D11	G-4	IC14	B-3	RV15	C-5
D201	K-5	IC15	E-8	RV16	A-3
D202	K-5	IC16	F-8	RV17	F-9
D203	K-5	IC17	E-7	RV19	E-4
D204	K-5	IC18	B-2	RV20	C-6
D206	H-7	IC20	D-3	RV201	J-9
D207	K-7	IC201	K-8	RV203	K-6
D208	L-7	IC202	J-5	RV204	K-5
D209	L-6	IC203	H-6	RV205	J-7
D211	K-6	IC204	K-6	RV207	J-4
D212	J-6	IC205	F-6	RV208	J-3
D213	J-6	IC206	K-3	RV209	J-3
D214	G-7	IC207	K-2	RV210	J-2
D215	G-7	IC208	G-6	RV211	K-2
D216	G-7	IC401	B-3	RV212	K-7
D217	G-7			RV213	H-9
D401	D-3	LV1	F-9	RV214	H-8
D402	D-3	LV2	E-8	RV215	K-5
DL1	D-7	Q1	A-9	T1	H-8
DL2	D-8	Q7	G-3		
		Q18	E-4	TP1	B-9
E1	C-7	Q26	D-2	TP2	B-8
E2	D-6	Q28	E-3	TP3	D-8
E3	F-2	Q37	E-8	TP4	D-7
E4	E-9	Q43	C-7	TP5	F-4
E5	A-3	Q47	C-4	TP6	C-2
E201	J-9	Q49	F-4	TP7	F-2
E202	K-7	Q202	H-9		
E203	K-4	Q203	H-8		
E204	F-5	Q217	G-5		

2. 32-231-C

E205	L-2	Q220	G-6	TP8	B-2
FL1	A-7	Q221	G-7	TP9	E-9
FL2	B-7	Q223	H-9	TP10	E-9
FL3	B-6	Q226	L-8	TP12	E-5
FL4	B-5	Q230	J-9	TP13	C-4
FL5	H-4	Q231	G-5	TP14	D-4
FL6	E-7	Q401	C-2	TP15	B-3
FL200	J-7	Q402	E-4	TP16	C-4
FL201	K-7	Q403	F-3	TP17	B-9
FL203	J-6			TP18	A-9
IC1	C-8	RV1	B-9	TP19	B-2
IC2	D-7	RV2	B-8	TP21	B-7
IC3	D-7	RV3	B-8	TP22	D-4
IC4	E-5	RV4	B-8	TP201	J-9
IC5	D-5	RV5	A-8	TP203	K-6
IC6	G-4	RV6	C-8	TP204	G-7
IC7	E-4	RV7	E-6	TP205	H-5
IC8	F-3	RV8	D-4	TP206	J-4
IC9	D-3	RV9	A-5	TP207	J-4
IC10	E-2	RV10	B-5	TP208	J-8
IC11	D-9	RV11	B-4	TP209	J-8
IC12	B-5	RV12	H-4	TP210	L-4
IC13	E-9	RV13	E-2	TP211	K-2
IC14	B-3	RV14	E-8	TP212	K-6
IC15	E-8	RV15	C-5	TP213	K-6
IC16	F-8	RV16	A-3		
IC17	E-7	RV17	F-9	X1	H-7
IC18	B-2	RV19	E-4		
IC20	D-3	RV20	C-6		
IC201	K-8	RV201	J-9		
IC202	J-5	RV203	K-6		
IC203	H-6	RV204	K-5		
IC204	K-6	RV205	J-7		
IC205	F-6	RV207	J-4		
IC206	K-3	RV208	J-3		
IC207	K-2	RV209	J-3		
IC208	G-6	RV210	J-2		
IC401	B-3	RV211	K-2		
		RV212	K-7		
		RV213	H-9		
LV1	F-9	RV214	H-8		
LV2	E-8	RV215	K-5		
1	A-9	T1	H-8		
7	G-3				
Q18	E-4	TP1	B-9		
Q26	D-2	TP2	B-8		
28	E-3	TP3	D-8		
37	E-8	TP4	D-7		
Q43	C-7	TP5	F-4		
Q47	C-4	TP6	C-2		
49	F-4	TP7	F-2		
202	H-9				
Q203	H-8				
Q217	G-5				

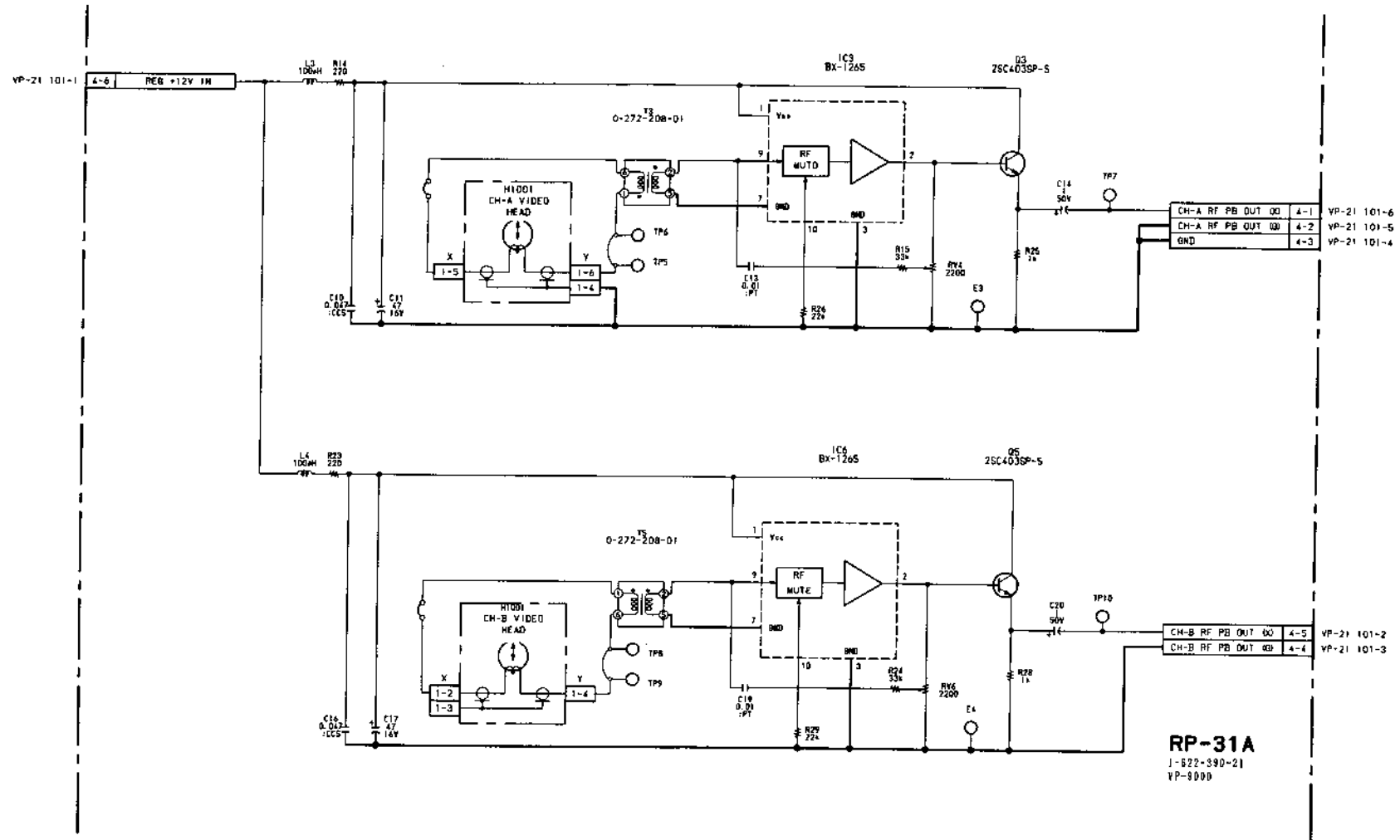


VP-21A
- COMPONENT SIDE -
1-622-392-23
VP-9000

RP-31A: PB AMPLIFIER

UC; S/N 10001 thru 10250

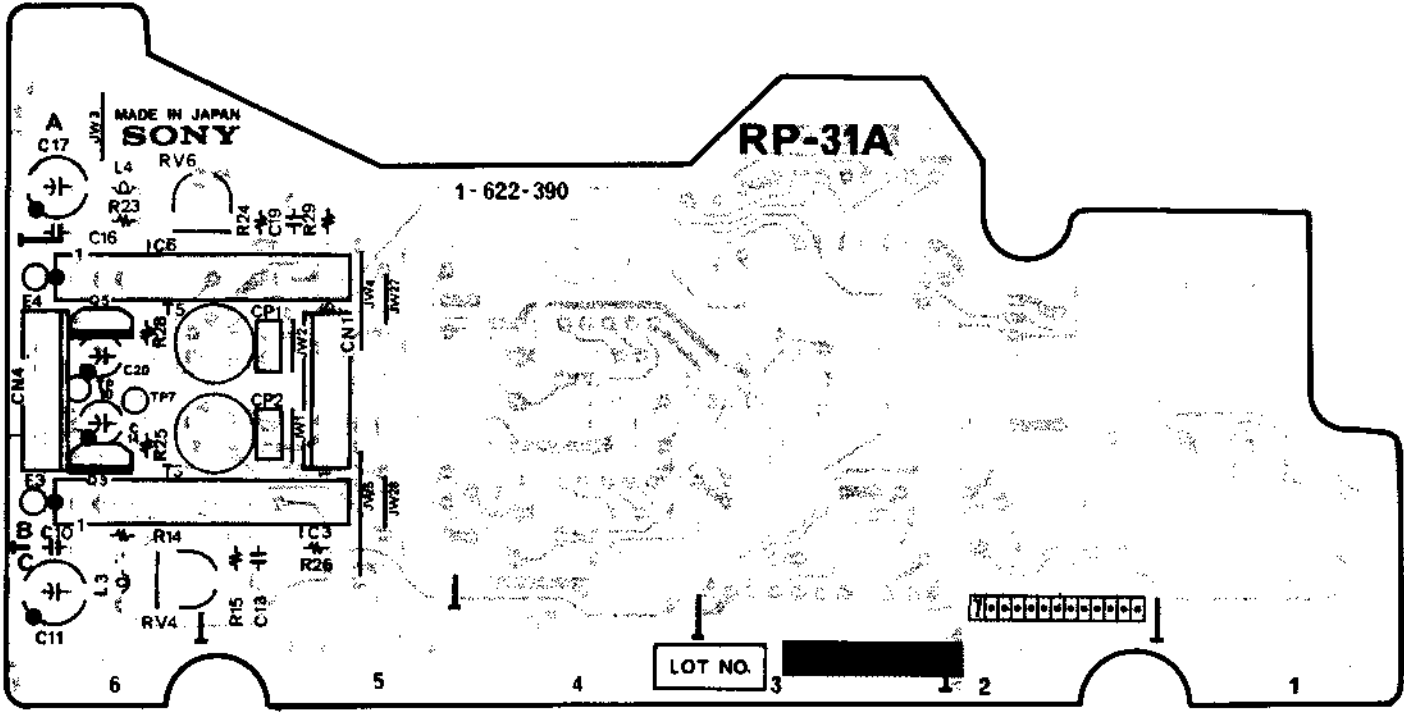
J; S/N 10001 thru 10050



RP-31A:PB AMPLIFIER
UC: S/N 10001 thru 10250
J: S/N 10001 thru 10050

RP-31A (1-622-390-21)

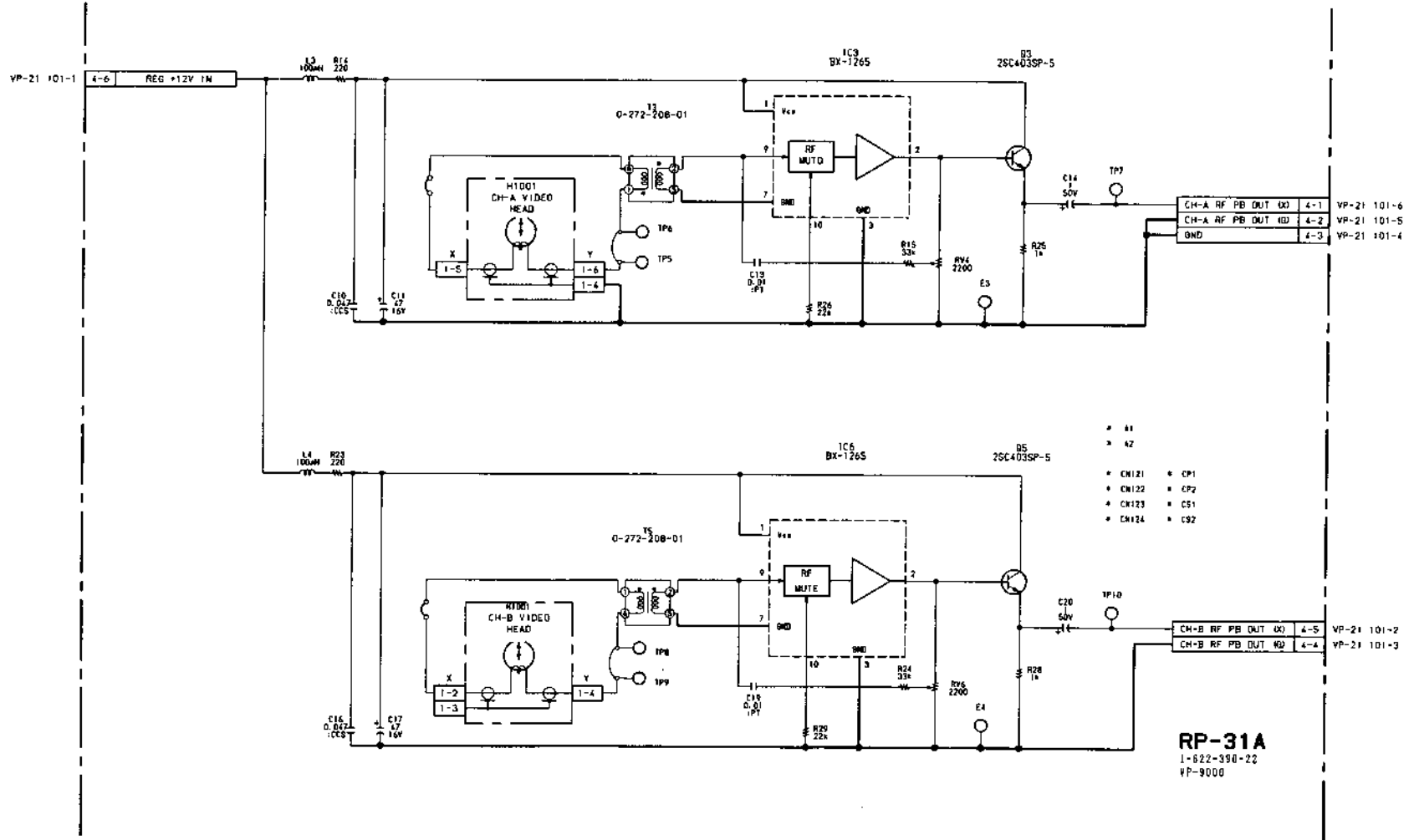
- CN1 B-5
- CN4 B-6
- CP1 B-5
- CP2 B-5
- E3 B-6
- E4 B-6
- IC3 B-6
- IC6 B-6
- Q3 B-6
- Q5 B-6
- RV4 C-6
- RV6 A-5
- T3 B-5
- T5 B-5
- TP7 B-6
- TP10 B-6



RP-31A
-COMPONENT SIDE-
1-622-390-21
VP-9000

RP-31A RP-31A

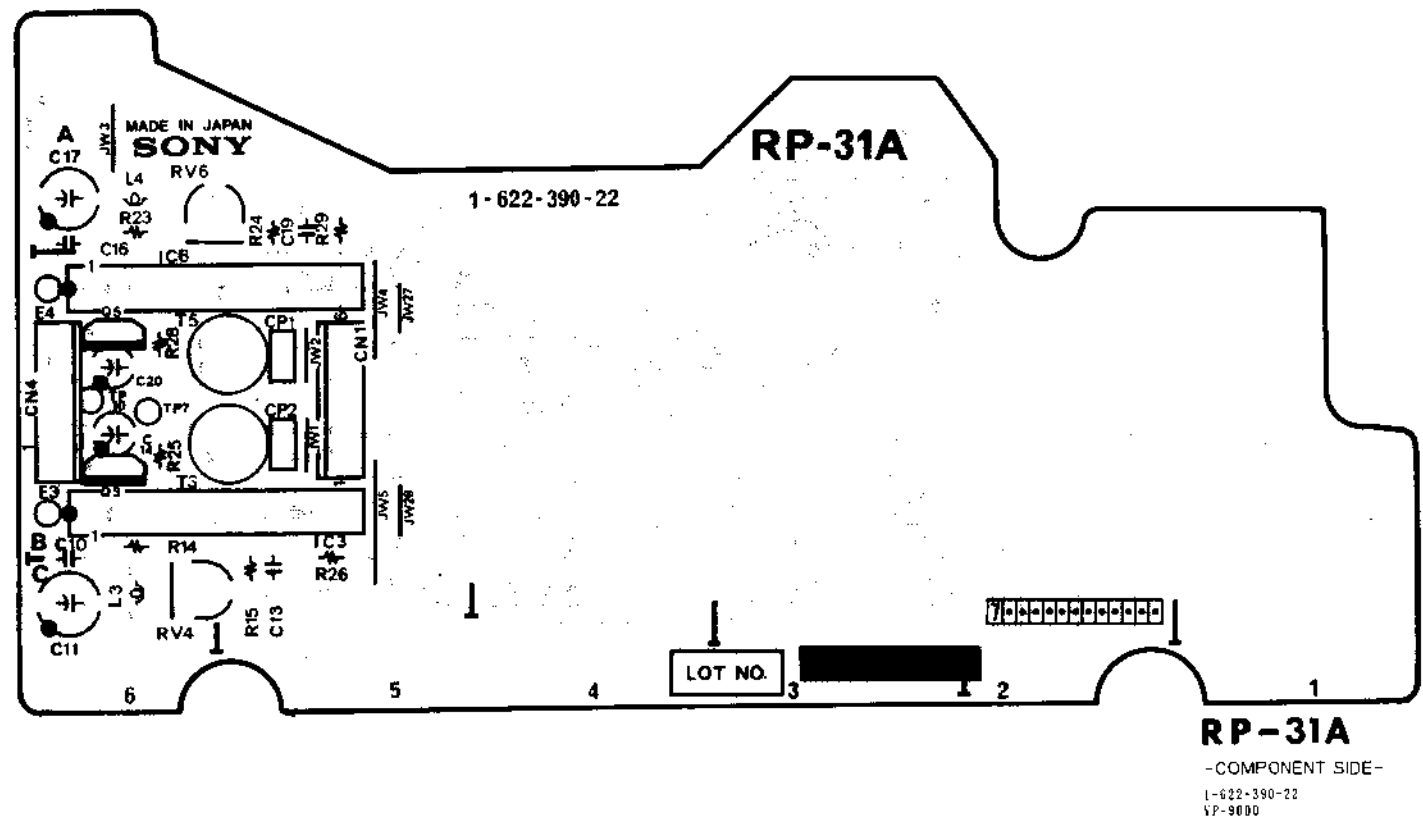
RP-31A: PB AMPLIFIER
UC; S/N 10251 and higher
J; S/N 10051 and higher



RP-31A: PB AMPLIFIER
 UC; S/N 10251 and higher
 J; S/N 10051 and higher

RP-31A (1-622-390-22)

- CN1 B-5
- CN4 B-6
- CP1 B-5
- CP2 B-5
- E3 B-6
- E4 B-6
- IC3 B-6
- IC6 B-6
- Q3 B-6
- Q5 B-6
- RV4 C-6
- RV6 A-5
- T3 B-5
- T5 B-5
- TP7 B-6
- TP10 B-6



RP-31A
 -COMPONENT SIDE-
 1-622-390-22
 VP-9000

AU-82A:PB AMPLIFIER

UC; S/N 10001 thru 10250

J; S/N 10001 thru 10050

AU-82A (1-622-393-21)

- CN2 J-6
- CN3 H-6
- CN4 F-6
- CN5 K-6
- CN6 D-6
- CN10 L-6
- CN11 M-6
- CN12 M-1
- CN13 L-1
- CN14 M-6
- CN15 H-6
- CN16 G-6
- CN17 F-1

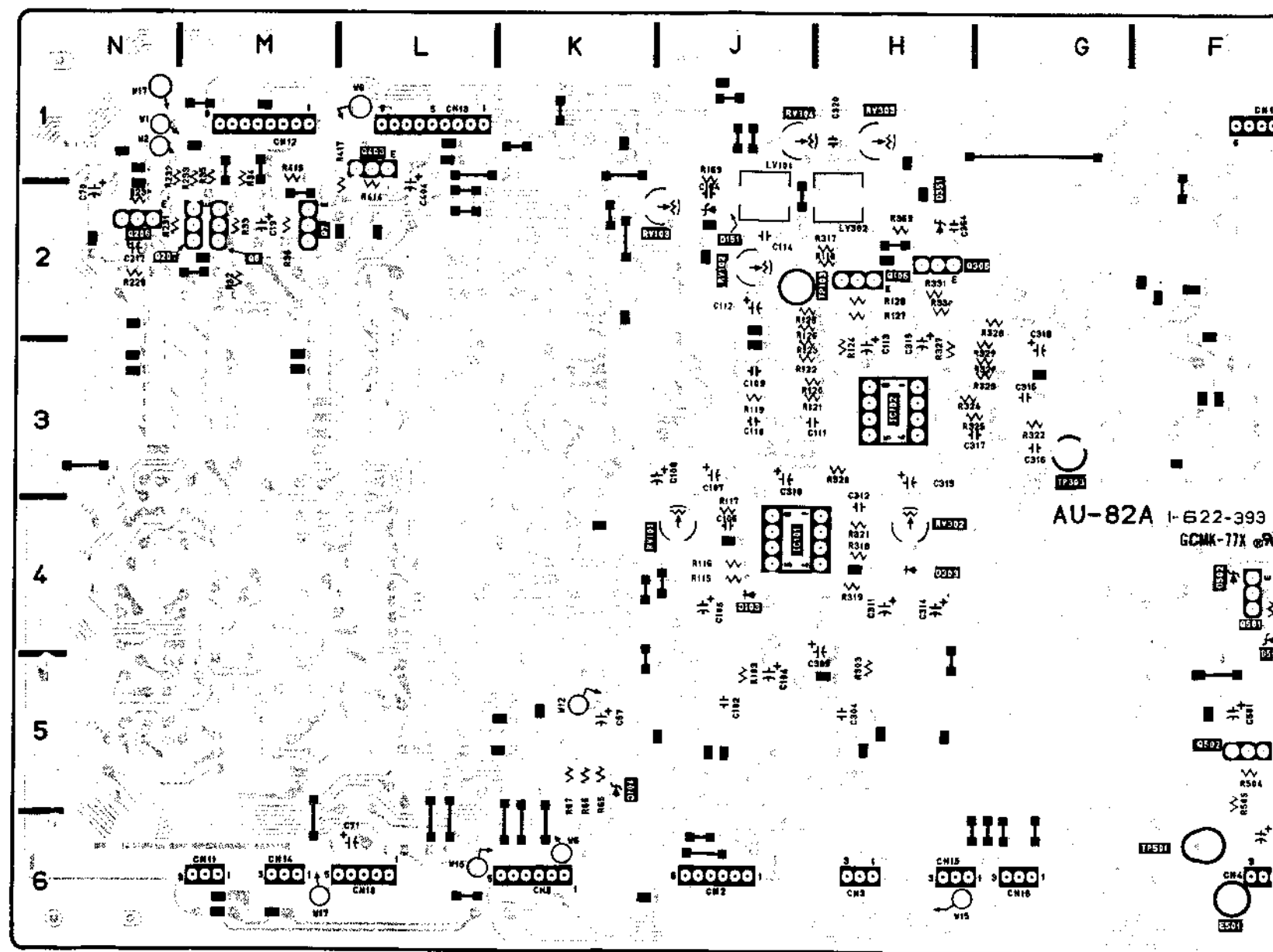
- D52 D-2
- D53 D-2
- D103 J-4
- D104 K-5
- D151 J-2
- D303 H-4
- D351 H-2
- D501 F-4
- D502 F-4
- D503 E-3
- D504 E-3
- D505 D-3

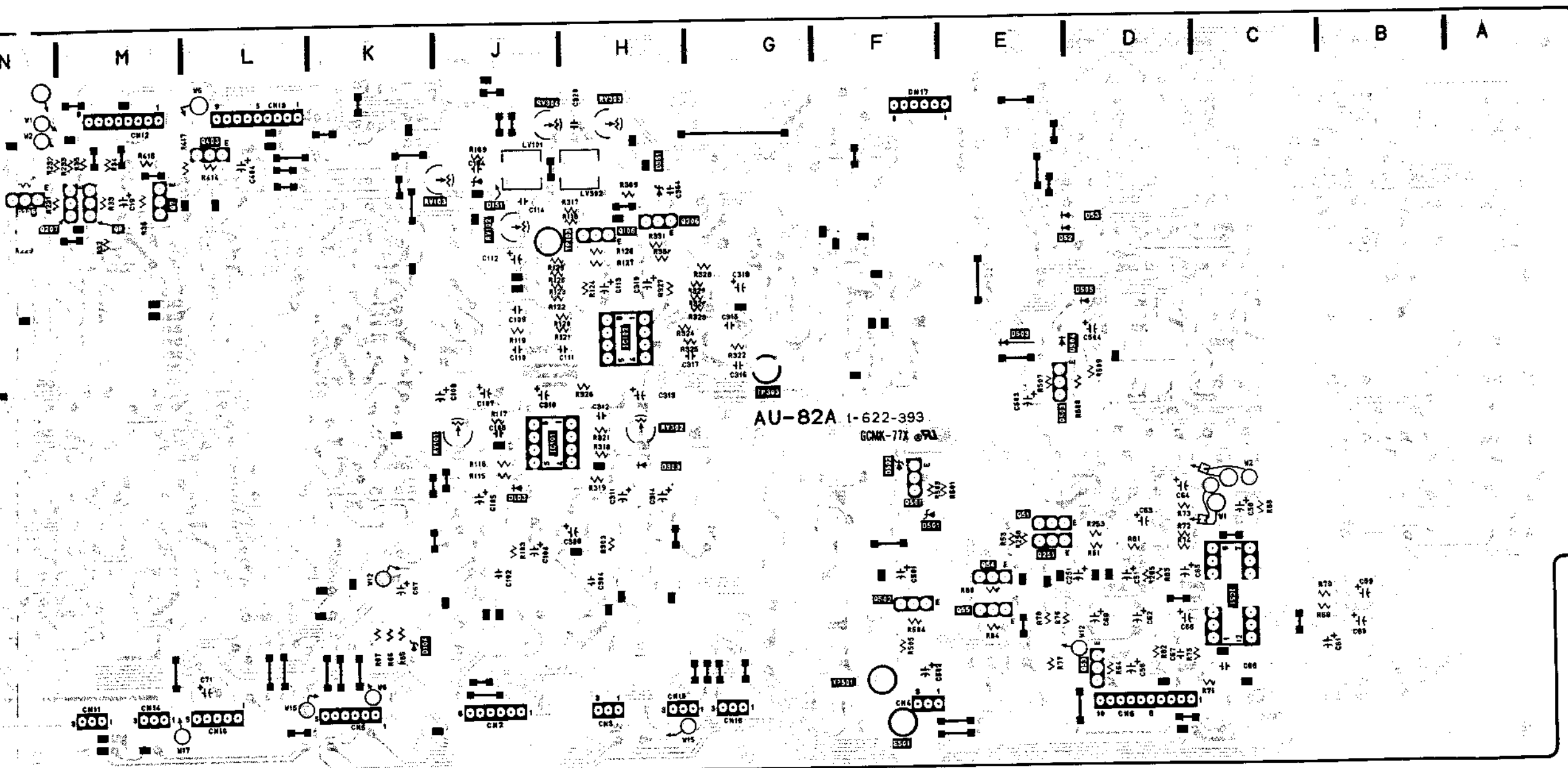
- E501 F-6

- IC51 C-5
- IC101 J-4
- IC102 H-3

- LV101 J-2
- LV301 H-5
- LV302 H-2

- Q7 M-2
- Q8 M-2
- Q51 E-4
- Q53 D-6
- Q54 E-5
- Q55 E-5
- Q106 H-2
- Q206 N-2
- Q207 M-2
- Q208 M-4
- Q251 E-5
- Q306 H-2
- Q403 L-1
- Q501 F-4
- Q502 F-5
- Q503 E-3





AU-82A 1-622-393

GCAM-77X

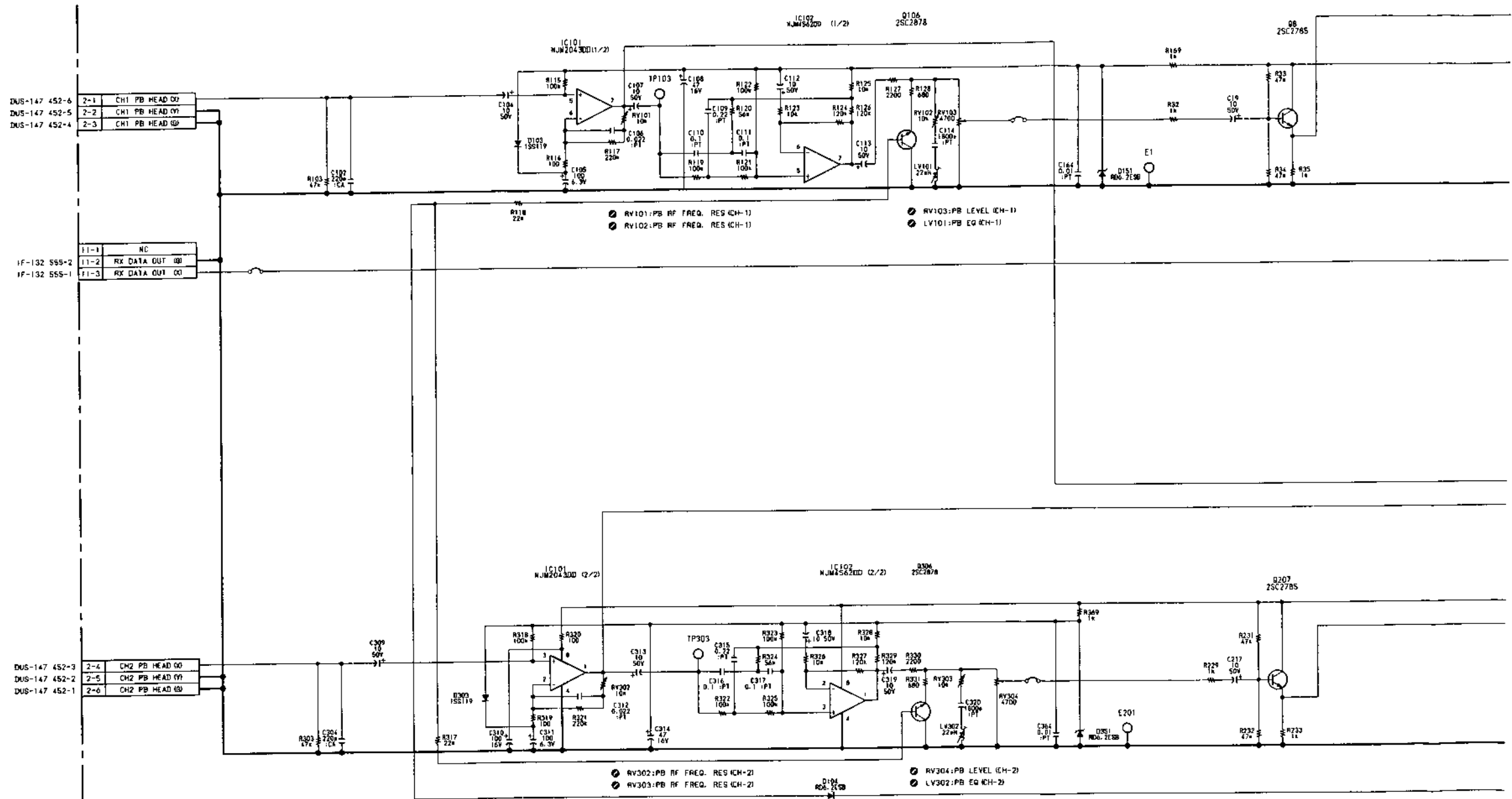
AU-82A

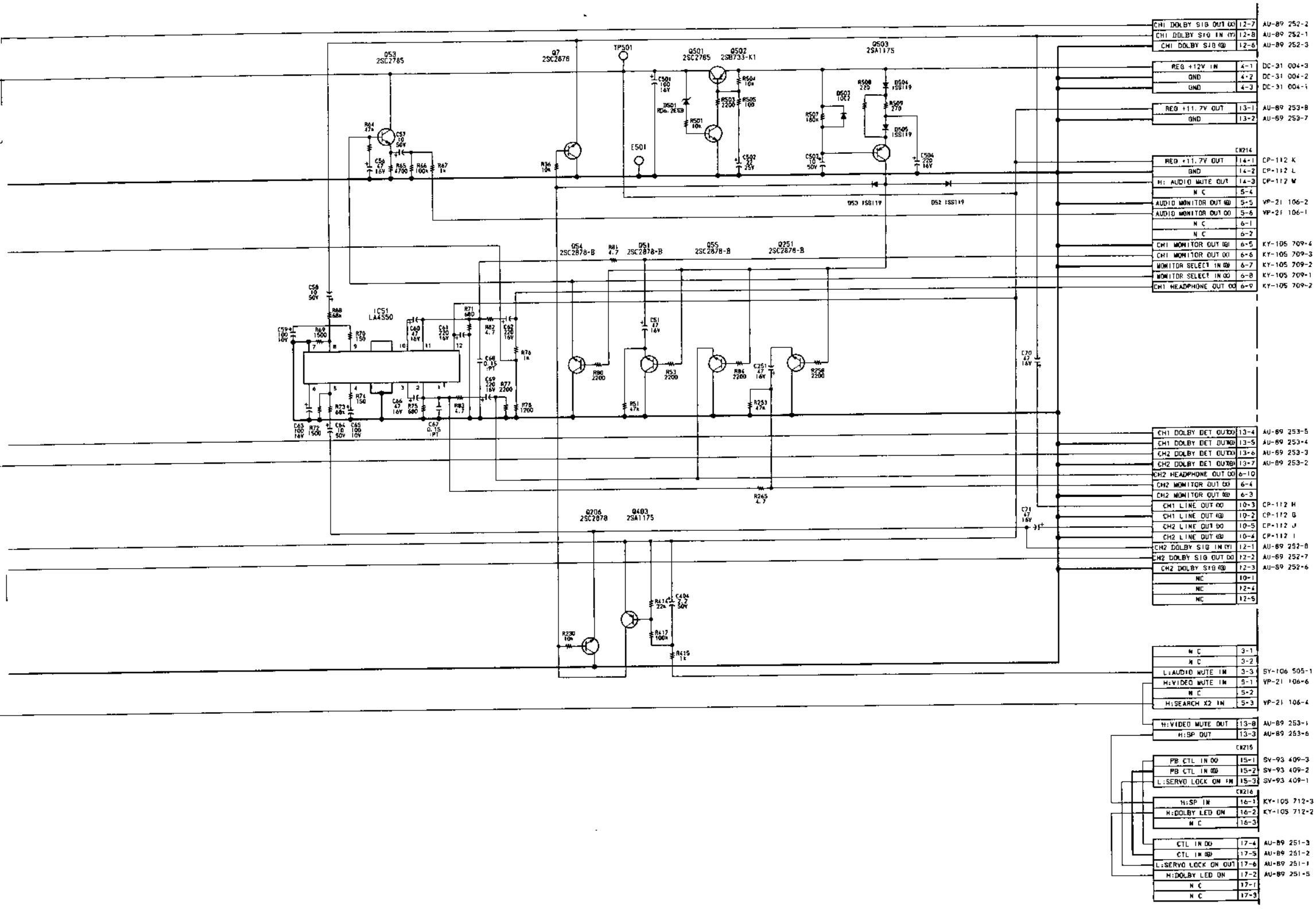
-COMPONENT SIDE-
1-622-393-21
VF-9000

AU-82A: PB AMPLIFIER

UC; S/N 10001 thru 10250

J; S/N 10001 thru 10050





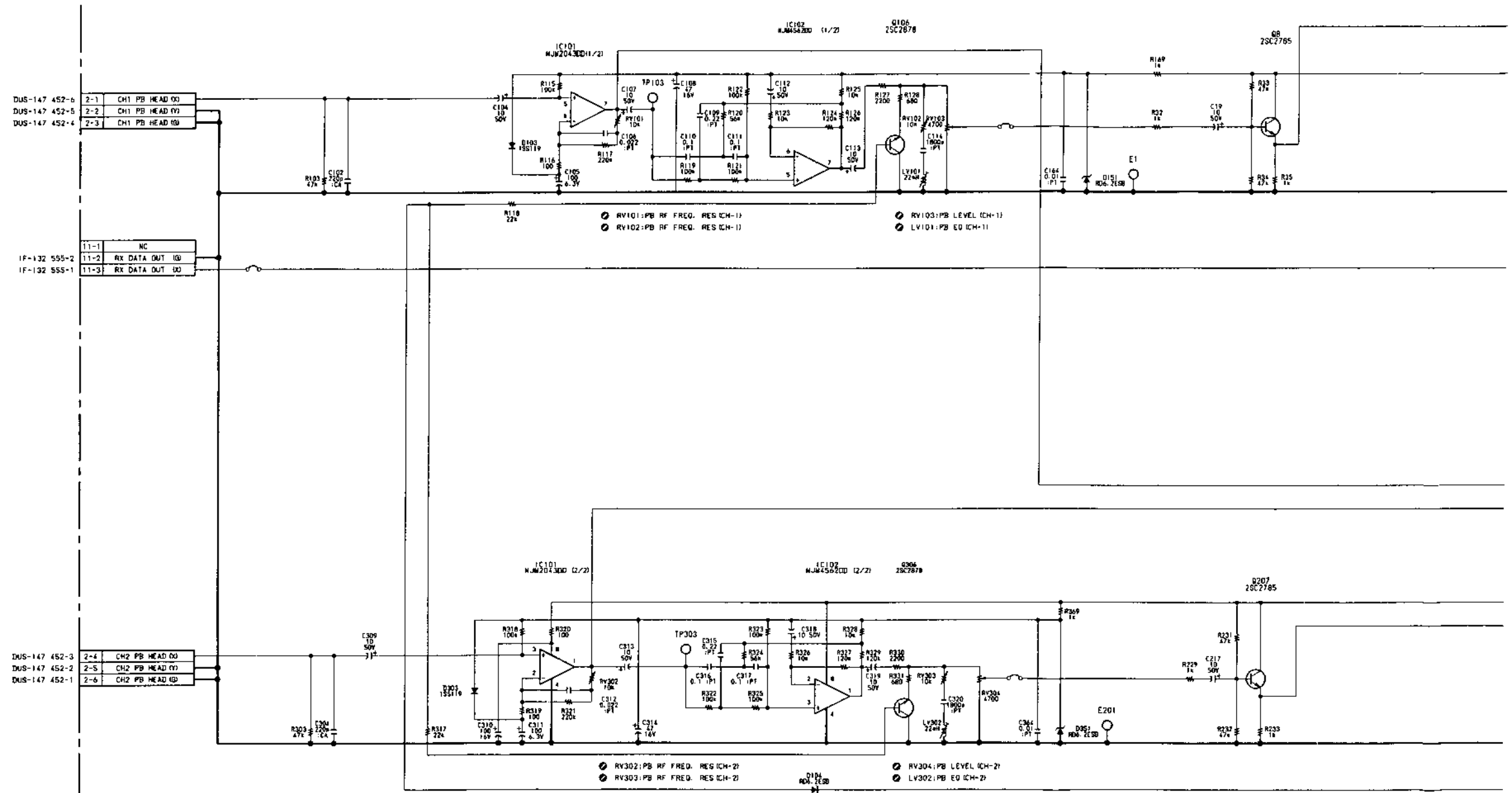
CHI DOLBY SIG OUT RD	12-7	AU-89 252-2
CHI DOLBY SIG IN CP	12-8	AU-89 252-1
CHI DOLBY SIG RD	12-6	AU-89 252-3
REG +12V IN	4-1	DC-31 004-3
GND	4-2	DC-31 004-2
GND	4-3	DC-31 004-1
REG +11.7V OUT	13-1	AU-89 253-8
GND	13-2	AU-89 253-7
CR214		
REG +11.7V OUT	14-1	CP-112 K
GND	14-2	CP-112 L
H: AUDIO MUTE OUT	14-3	CP-112 M
N C	5-4	
AUDIO MONITOR OUT RD	5-5	VP-21 106-2
AUDIO MONITOR OUT OD	5-6	VP-21 106-1
N C	6-1	
N C	6-2	
CHI MONITOR OUT SD	6-5	KY-105 709-4
CHI MONITOR OUT OD	6-6	KY-105 709-3
MONITOR SELECT IN RD	6-7	KY-105 709-2
MONITOR SELECT IN OD	6-8	KY-105 709-1
CHI HEADPHONE OUT OD	6-9	KY-105 709-2
CHI DOLBY DET OUTD	13-4	AU-89 253-5
CHI DOLBY DET OUNB	13-5	AU-89 253-4
CH2 DOLBY DET OUTD	13-6	AU-89 253-3
CH2 DOLBY DET OUNB	13-7	AU-89 253-2
CH2 HEADPHONE OUT OD	6-10	
CH2 MONITOR OUT OD	6-4	
CH2 MONITOR OUT RD	6-3	
CHI LINE OUT RD	10-3	CP-112 H
CHI LINE OUT OD	10-2	CP-112 B
CH2 LINE OUT OD	10-5	CP-112 J
CH2 LINE OUT RD	10-4	CP-112 I
CH2 DOLBY SIG IN OD	12-1	AU-89 252-8
CH2 DOLBY SIG OUT OD	12-2	AU-89 252-7
CH2 DOLBY SIG RD	12-3	AU-89 252-6
N C	10-1	
N C	12-4	
N C	12-5	
N C	3-1	
N C	3-2	
L: AUDIO MUTE IN	3-3	BY-106 505-1
H: VIDEO MUTE IN	5-1	VP-21 106-6
N C	5-2	
H: SEARCH X2 IN	5-3	VP-21 106-4
H: VIDEO MUTE OUT	13-8	AU-89 253-1
H: SP OUT	13-3	AU-89 253-6
CR215		
PB CTL IN OD	15-1	SV-93 409-3
PB CTL IN OD	15-2	SV-93 409-2
L: SERVO LOCK ON FM	15-3	SV-93 409-1
CR216		
H: SP IN	16-1	KY-105 712-3
H: DOLBY LED ON	16-2	KY-105 712-2
N C	16-3	
CTL IN OD	17-4	AU-89 251-3
CTL IN OD	17-5	AU-89 251-2
L: SERVO LOCK ON OUT	17-6	AU-89 251-1
H: DOLBY LED ON	17-2	AU-89 251-5
N C	17-1	
N C	17-3	

AU-82A
1-822-893-21
VP-9000

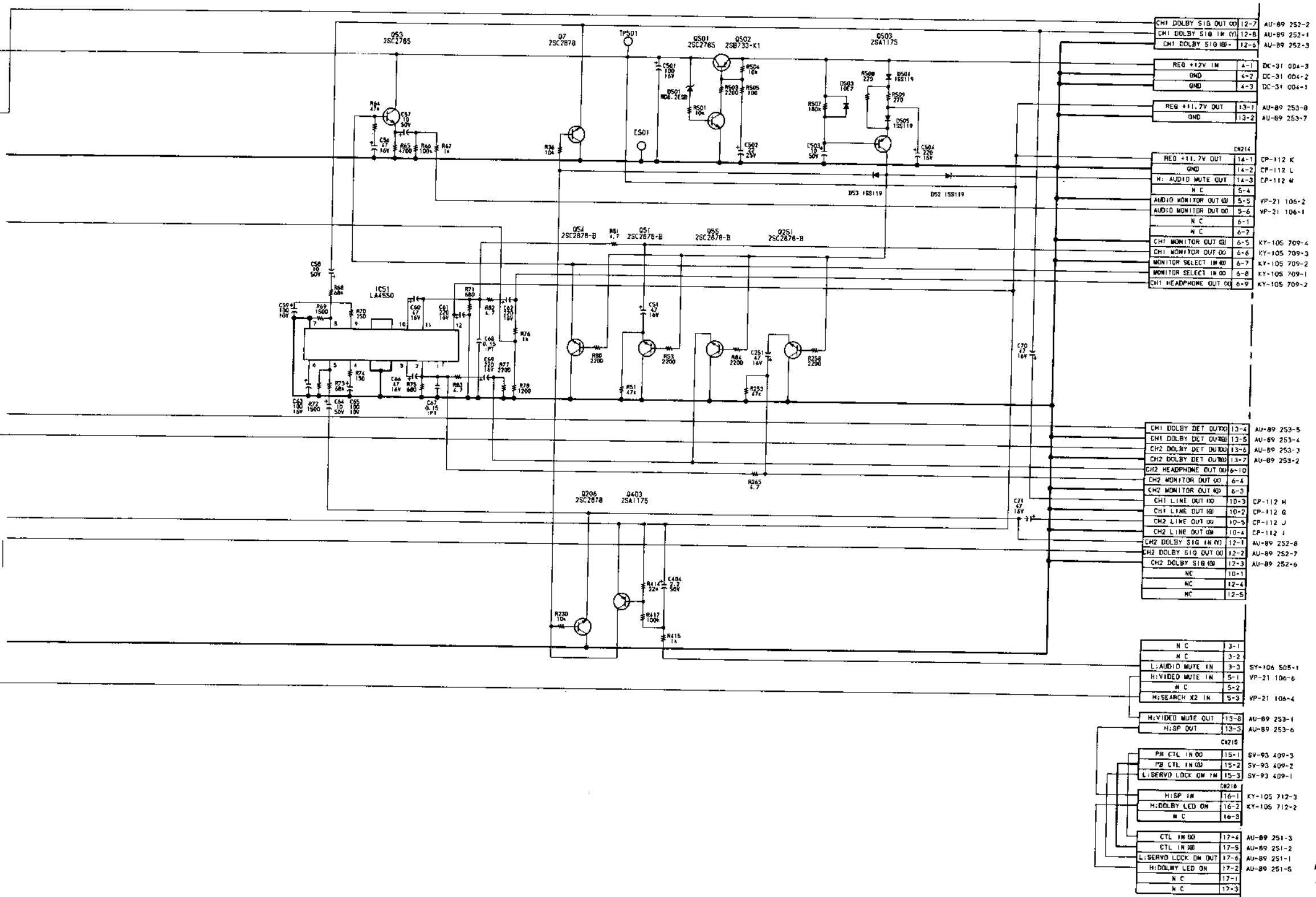
AU-82A:PB AMPLIFIER

UC; S/N 10251 thru 11250

J; S/N 10051 thru 10150



AU-82A AU-82A



CH1 DOLBY SIG OUT (O)	12-7	AU-89 252-2
CH1 DOLBY SIG IN (O)	12-8	AU-89 252-1
CH1 DOLBY SIG (O)	12-6	AU-89 252-3
REG +12V IN	4-1	DC-31 004-3
GND	4-2	DC-31 004-2
GND	4-3	DC-31 004-1
REG +11.7V OUT	13-7	AU-89 253-8
GND	13-2	AU-89 253-7
REG +11.7V OUT	14-1	CP-112 K
GND	14-2	CP-112 L
M: AUDIO MUTE OUT	14-3	CP-112 M
N.C.	5-4	
AUDIO MONITOR OUT (O)	5-5	VP-21 106-2
AUDIO MONITOR OUT (O)	5-6	VP-21 106-1
N.C.	6-1	
N.C.	6-2	
CH1 MONITOR OUT (O)	6-5	KY-105 709-4
CH1 MONITOR OUT (O)	6-6	KY-105 709-3
MONITOR SELECT IN (O)	6-7	KY-105 709-2
MONITOR SELECT IN (O)	6-8	KY-105 709-1
CH1 HEADPHONE OUT (O)	6-9	KY-105 709-2
CH1 DOLBY DET OUT (O)	13-4	AU-89 253-5
CH1 DOLBY DET OUT (O)	13-5	AU-89 253-4
CH2 DOLBY DET OUT (O)	13-6	AU-89 253-3
CH2 DOLBY DET OUT (O)	13-7	AU-89 253-2
CH2 HEADPHONE OUT (O)	6-10	
CH2 MONITOR OUT (O)	6-4	
CH2 MONITOR OUT (O)	6-3	
CH1 LINE OUT (O)	10-3	CP-112 H
CH1 LINE OUT (O)	10-2	CP-112 G
CH2 LINE OUT (O)	10-5	CP-112 J
CH2 LINE OUT (O)	10-4	CP-112 I
CH2 DOLBY SIG IN (O)	12-1	AU-89 252-8
CH2 DOLBY SIG OUT (O)	12-2	AU-89 252-7
CH2 DOLBY SIG (O)	12-3	AU-89 252-6
N.C.	10-1	
N.C.	12-4	
N.C.	12-5	
N.C.	3-1	
N.C.	3-2	
L: AUDIO MUTE IN	3-3	SY-106 505-1
H: VIDEO MUTE IN	5-1	VP-21 106-6
N.C.	5-2	
H: SEARCH X2 IN	5-3	VP-21 106-4
H: VIDEO MUTE OUT	13-8	AU-89 253-1
H: SP OUT	13-3	AU-89 253-6
PR CTL IN (O)	15-1	SV-93 409-3
PR CTL IN (O)	15-2	SV-93 409-2
L: SERVO LOCK ON (M)	15-3	SV-93 409-1
H: SP IN	16-1	KY-105 712-3
H: DOLBY LED ON	16-2	KY-106 712-2
N.C.	16-3	
CTL IN (O)	17-4	AU-89 251-3
CTL IN (O)	17-5	AU-89 251-2
L: SERVO LOCK ON OUT	17-6	AU-89 251-1
H: DOLBY LED ON	17-2	AU-89 251-5
N.C.	17-1	
N.C.	17-3	

AU-82A
1-622-393-22
VF-9006

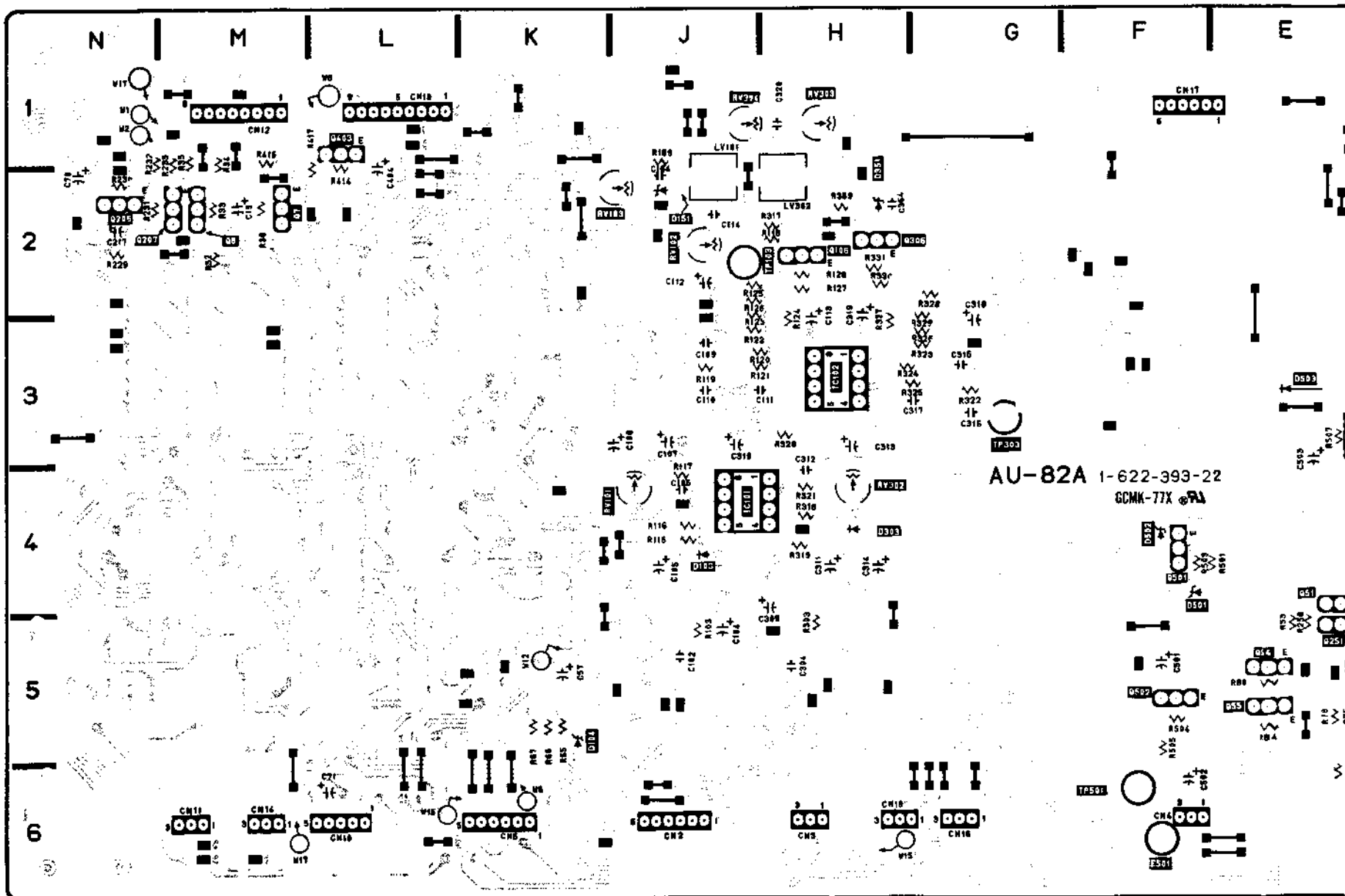
AU-82A:PB AMPLIFIER

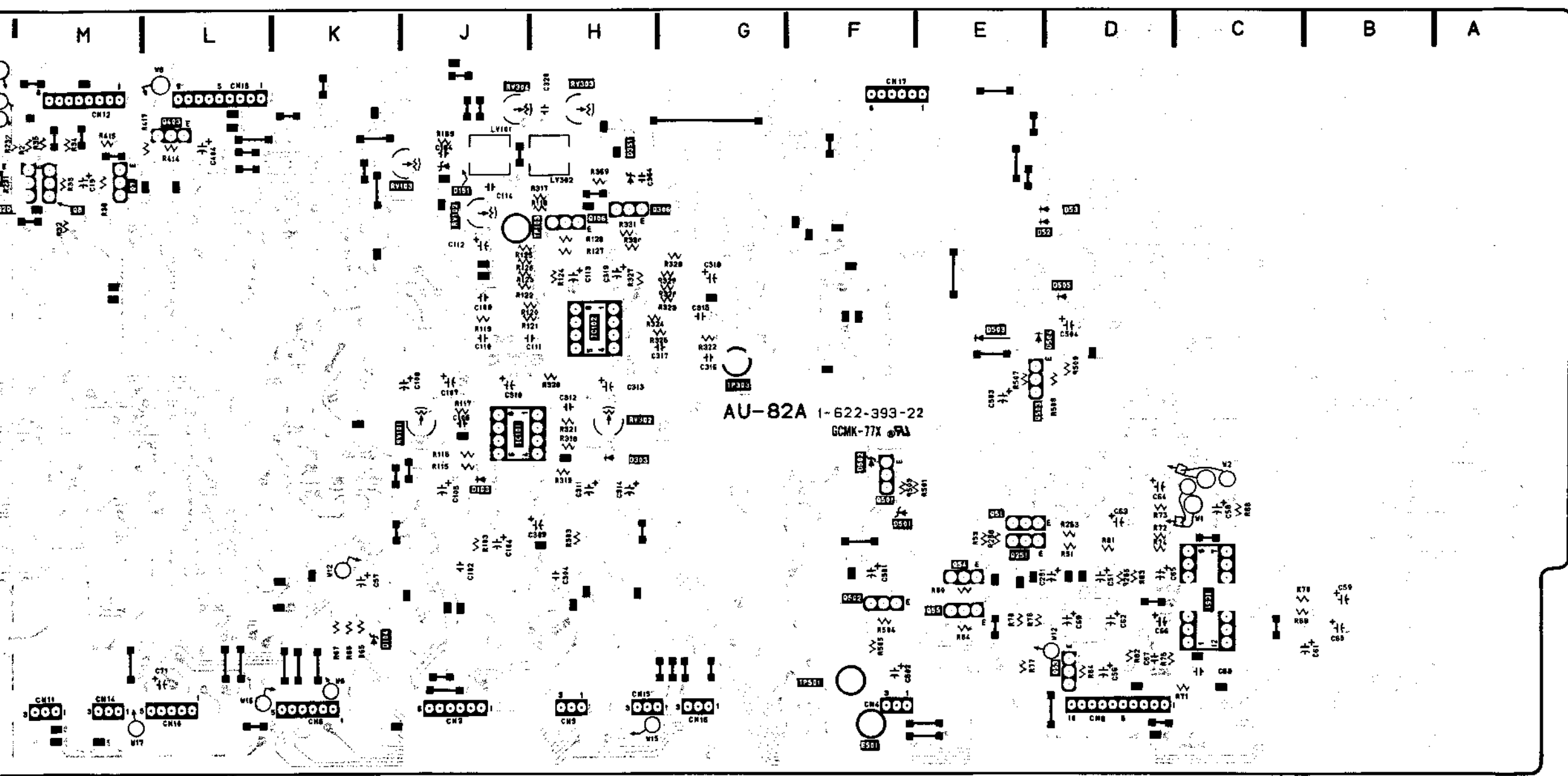
UC; S/N 10251 thru 11250

J; S/N 10051 thru 10150

AU-82A (1-622-393-22)

- | | | | |
|-------|-----|-------|-----|
| CN2 | J-6 | RV101 | J-4 |
| CN3 | H-6 | RV102 | J-2 |
| CN4 | F-6 | RV103 | J-2 |
| CN5 | K-6 | RV302 | H-4 |
| CN6 | D-6 | RV303 | H-1 |
| CN10 | L-6 | RV304 | J-1 |
| CN11 | M-6 | | |
| CN12 | M-1 | TP103 | J-2 |
| CN13 | L-1 | TP303 | G-3 |
| CN14 | M-6 | TP501 | F-6 |
| CN15 | H-6 | | |
| CN16 | G-6 | | |
| CN17 | F-1 | | |
| | | | |
| D52 | D-2 | | |
| D53 | D-2 | | |
| D103 | J-4 | | |
| D104 | K-5 | | |
| D151 | J-2 | | |
| D303 | H-4 | | |
| D351 | H-2 | | |
| D501 | F-4 | | |
| D502 | F-4 | | |
| D503 | E-3 | | |
| D504 | E-3 | | |
| D505 | D-3 | | |
| | | | |
| E 501 | F-6 | | |
| | | | |
| IC51 | C-5 | | |
| IC101 | J-4 | | |
| IC102 | H-3 | | |
| | | | |
| LV101 | J-2 | | |
| LV301 | H-5 | | |
| LV302 | H-2 | | |
| | | | |
| Q7 | M-2 | | |
| Q8 | M-2 | | |
| Q51 | E-4 | | |
| Q53 | D-6 | | |
| Q54 | E-5 | | |
| Q55 | E-5 | | |
| Q106 | H-2 | | |
| Q206 | N-2 | | |
| Q207 | M-2 | | |
| Q208 | M-4 | | |
| Q251 | E-5 | | |
| Q306 | H-2 | | |
| Q403 | L-1 | | |
| Q501 | F-4 | | |
| Q502 | F-5 | | |
| Q503 | E-3 | | |





AU-82A 1-622-393-22
GCMK-77X

AU-82A
-COMPONENT SIDE-
1-622-393-22
VP-8000

AU-82A: PB AMPLIFIER

UC; S/N 11251 and higher

J; S/N 10151 and higher

AU-82 (1-622-393-23)

- CN2 J-6
- CN3 H-6
- CN4 F-6
- CN5 K-6
- CN6 D-6
- CN10 L-6
- CN11 M-6
- CN12 M-1
- CN13 L-1
- CN14 M-6
- CN15 H-6
- CN16 G-6
- CN17 F-1

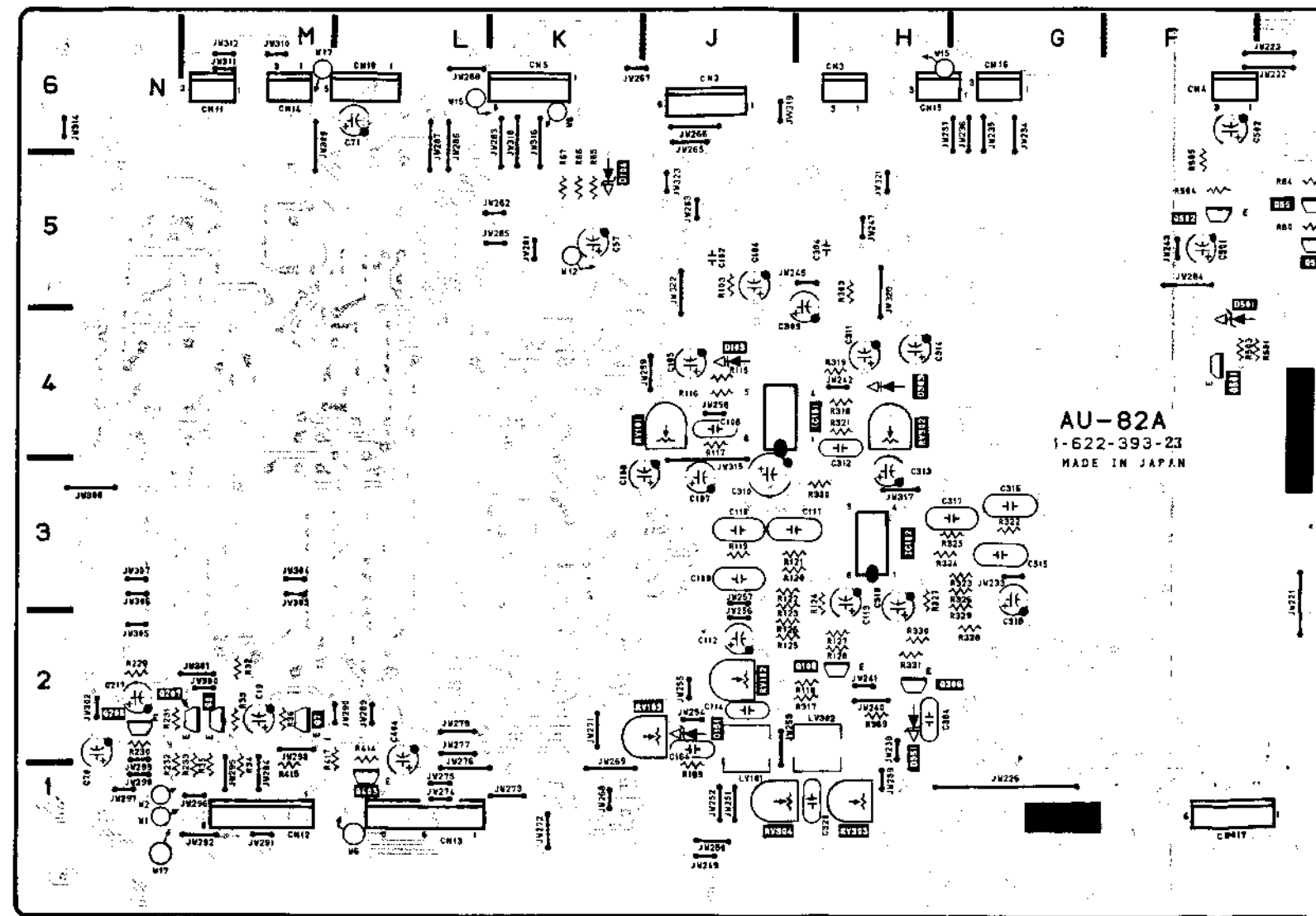
- D52 E-2
- D53 E-2
- D103 J-4
- D104 K-5
- D151 J-2
- D303 H-4
- D351 H-2
- D501 F-4
- D503 E-3
- D504 E-3
- D505 D-3

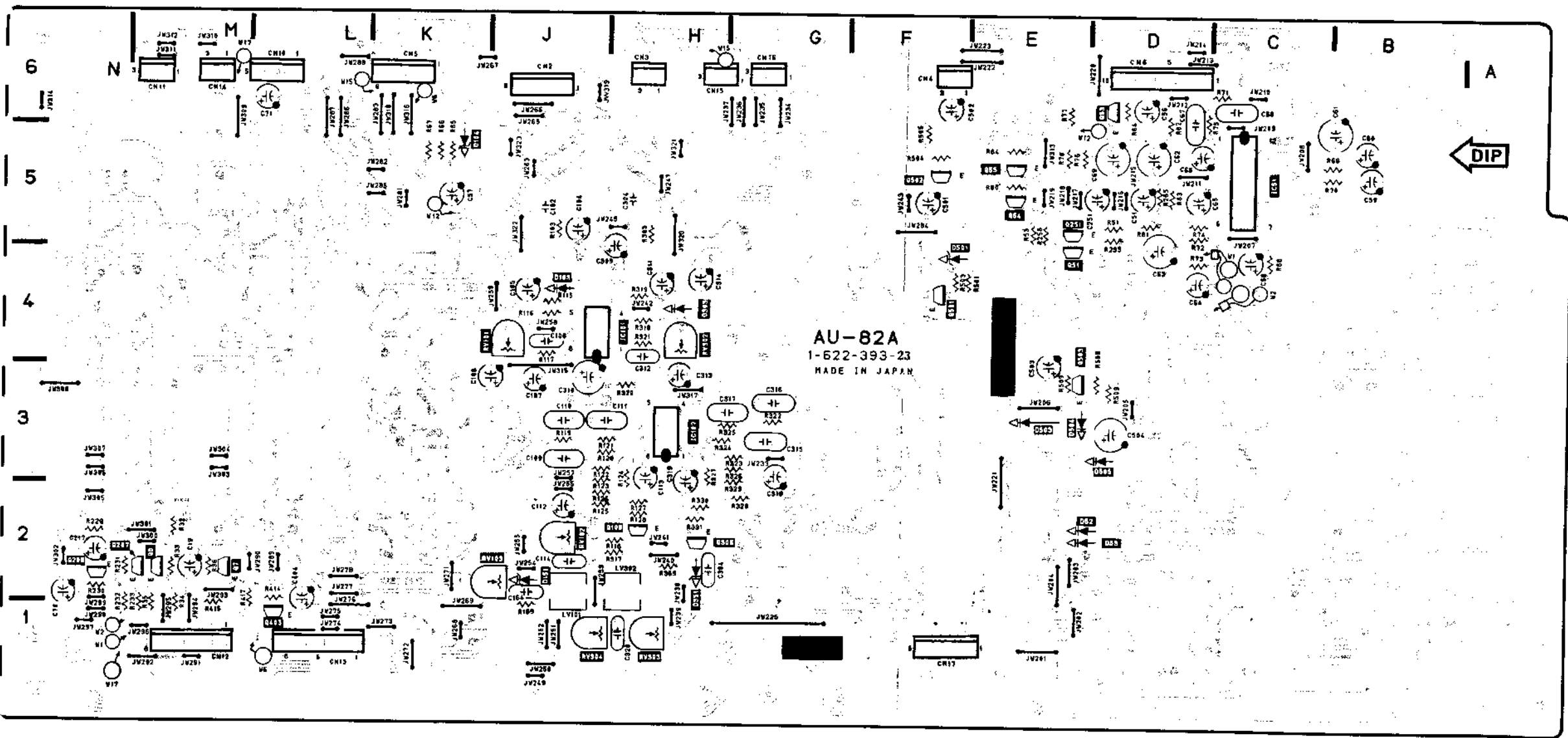
- IC51 C-5
- IC101 J-4
- IC102 H-3

- LV101 J-2
- LV302 H-2

- Q7 M-2
- Q8 M-2
- Q51 E-4
- Q53 D-6
- Q54 E-5
- Q55 E-5
- Q106 H-2
- Q206 N-2
- Q207 M-2
- Q251 E-5
- Q306 H-2
- Q403 L-1
- Q501 F-4
- Q502 F-5
- Q503 E-3

- RV101 J-4
- RV102 J-2
- RV103 J-2
- RV302 H-4
- RV303 H-1
- RV304 J-1



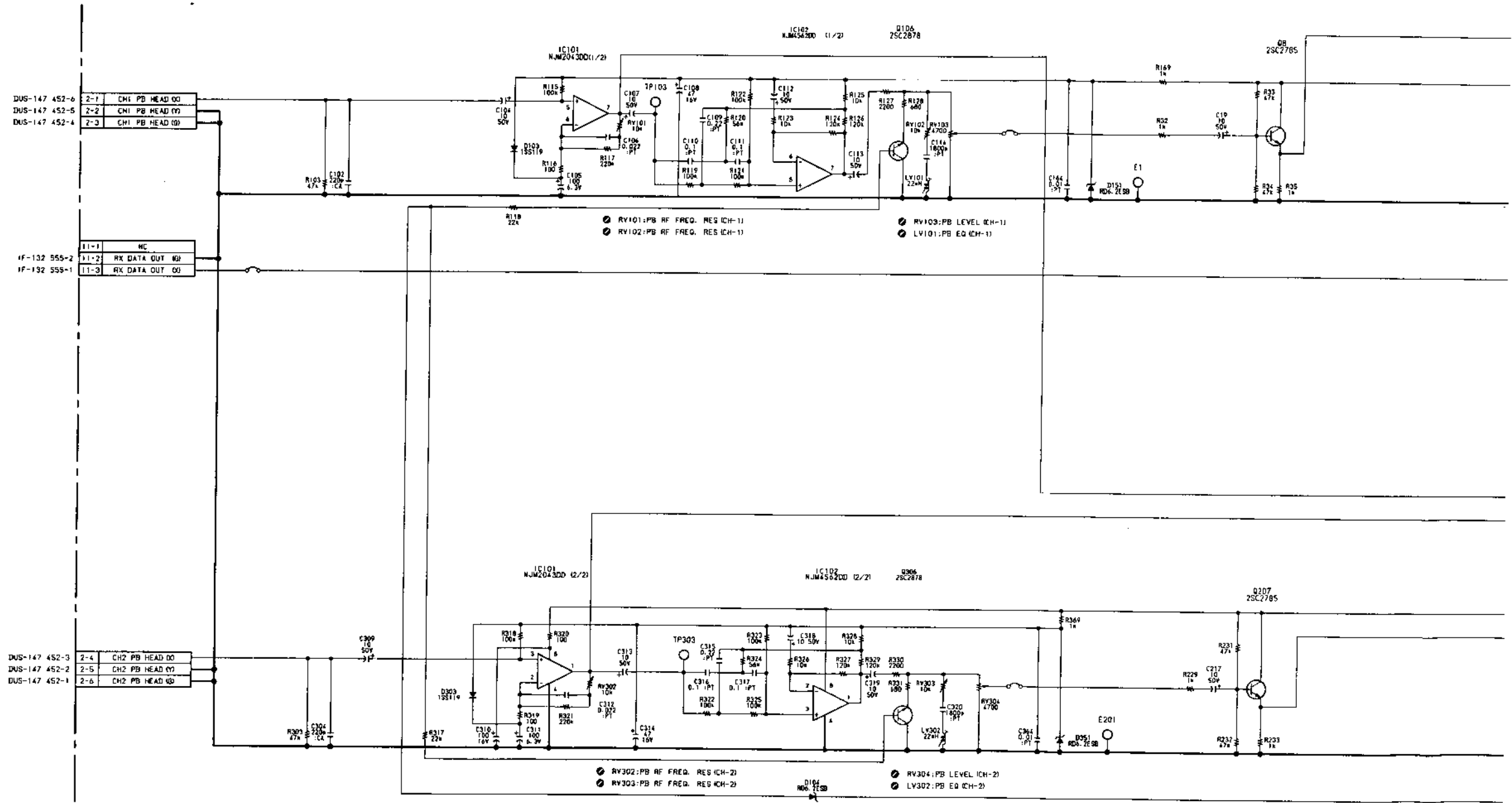


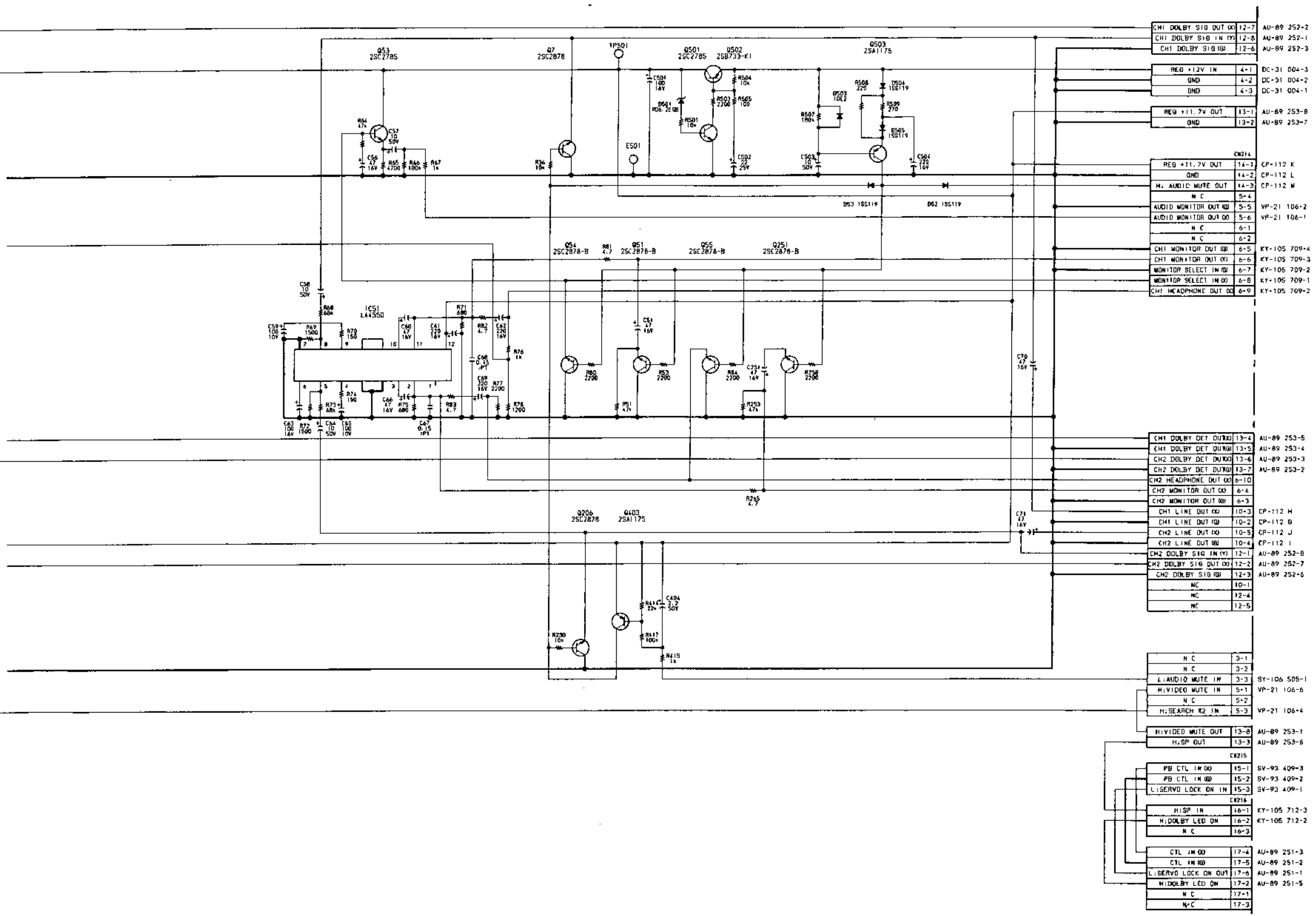
AU-82A

-COMPONENT SIDE-
1-622-393-23
VP-9000

AU-82A:PB AMPLIFIER

UC; S/N 11251 and higher
 J; S/N 10151 and higher



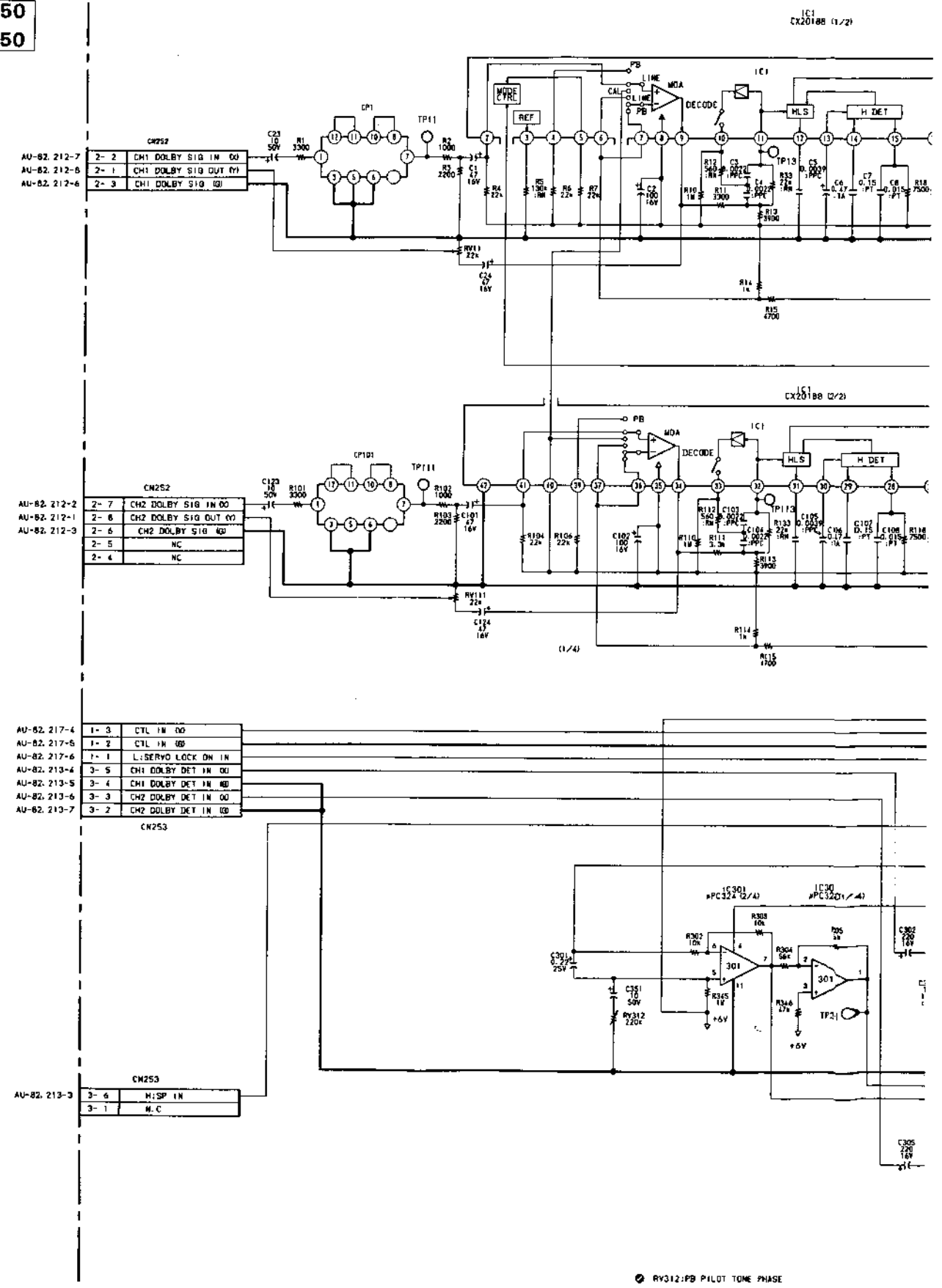


CH1 DOLBY SIG OUT	12-7	AU-89 252-2
CH1 DOLBY SIG IN	12-8	AU-89 252-1
CH1 DOLBY SIG	12-6	AU-89 252-3
REG +12V IN	4-1	DC-31 004-3
GND	4-2	DC-31 004-2
GND	4-3	DC-31 004-1
REG +11.7V OUT	13-1	AU-89 253-8
GND	13-2	AU-89 253-7
CR214		
REG +11.7V OUT	14-1	CP-112 K
GND	14-2	CP-112 L
H: AUDIO MUTE OUT	1A-3	CP-112 M
N C	5-4	
AUDIO MONITOR OUT	5-5	VP-21 106-2
AUDIO MONITOR OUT	5-6	VP-21 106-1
N C	6-1	
N C	6-2	
CH1 MONITOR OUT	6-5	KY-105 709-4
CH1 MONITOR OUT	6-6	KY-105 709-3
MONITOR SELECT IN	6-7	KY-105 709-2
MONITOR SELECT IN	6-8	KY-105 709-1
CH1 HEADPHONE OUT	6-9	KY-105 709-2
CH1 DOLBY DET OUT	13-4	AU-89 253-5
CH1 DOLBY DET	13-5	AU-89 253-4
CH2 DOLBY DET OUT	13-6	AU-89 253-3
CH2 DOLBY DET	13-7	AU-89 253-2
CH2 HEADPHONE OUT	6-10	
CH2 MONITOR OUT	6-4	
CH2 MONITOR OUT	6-3	
CH1 LINE OUT	10-3	CP-112 H
CH1 LINE OUT	10-2	CP-112 B
CH2 LINE OUT	10-5	CP-112 J
CH2 LINE OUT	10-4	CP-112 I
CH2 DOLBY SIG IN	12-1	AU-89 252-8
CH2 DOLBY SIG OUT	12-2	AU-89 252-7
CH2 DOLBY SIG	12-3	AU-89 252-6
N C	10-1	
N C	12-4	
N C	12-5	
N C	3-1	
N C	3-2	
L: AUDIO MUTE IN	3-3	SY-106 505-1
H: VIDEO MUTE IN	5-1	VP-21 106-6
N C	5-2	
H: SEARCH #2 IN	5-3	VP-21 106-4
H: VIDEO MUTE OUT	13-8	AU-89 253-1
H: SP OUT	13-3	AU-89 253-6
CR215		
PB CTL IN	15-1	SV-93 409-3
PB CTL IN	15-2	SV-93 409-2
L: SERVO LOCK ON IN	15-3	SV-93 409-1
H: SP IN	16-1	KY-105 712-3
H: DOLBY LED ON	16-2	KY-105 712-2
N C	16-3	
CTL IN	17-4	AU-89 251-3
CTL IN	17-5	AU-89 251-2
L: SERVO LOCK ON OUT	17-6	AU-89 251-1
H: DOLBY LED ON	17-2	AU-89 251-5
N C	17-1	
N C	17-3	

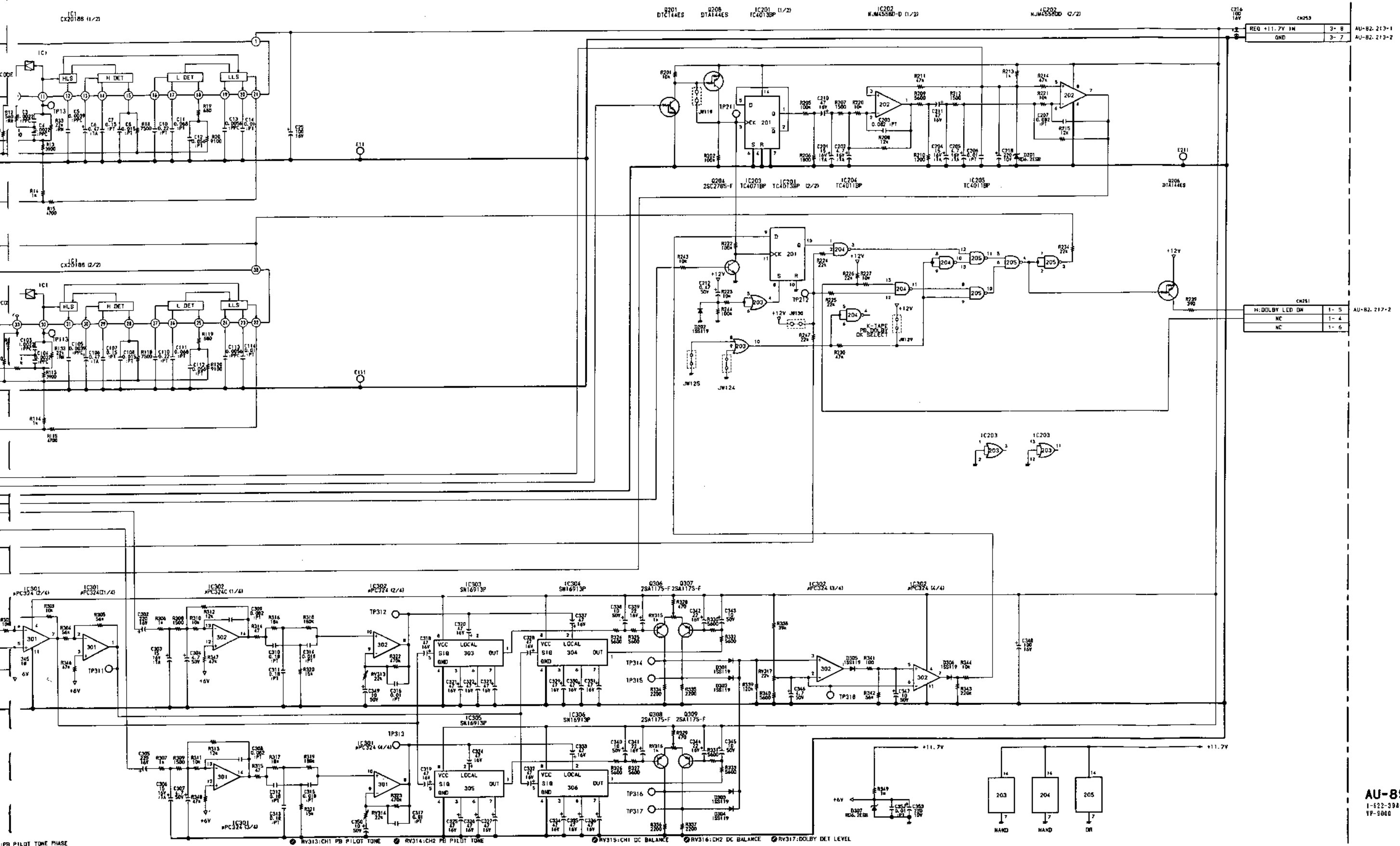
AU-82A
1-822-393-23
VP-9000

AU-89A:DOLBY

UC; S/N 10001 thru 10250
 J; S/N 10001 thru 10050



AU-89A AU-89A



REQ +11.7V IN	3-8	AU-82. 213-1
OND	3-7	AU-82. 213-2

H.DOLBY LED DM	1-5	AU-82. 217-2
NC	1-4	
NC	1-6	

TP PILOT TONE PHASE RV313:CH1 PB PILOT TONE RV314:CH2 PB PILOT TONE RV315:CH1 DC BALANCE RV316:CH2 DC BALANCE RV317:DOLBY DET LEVEL

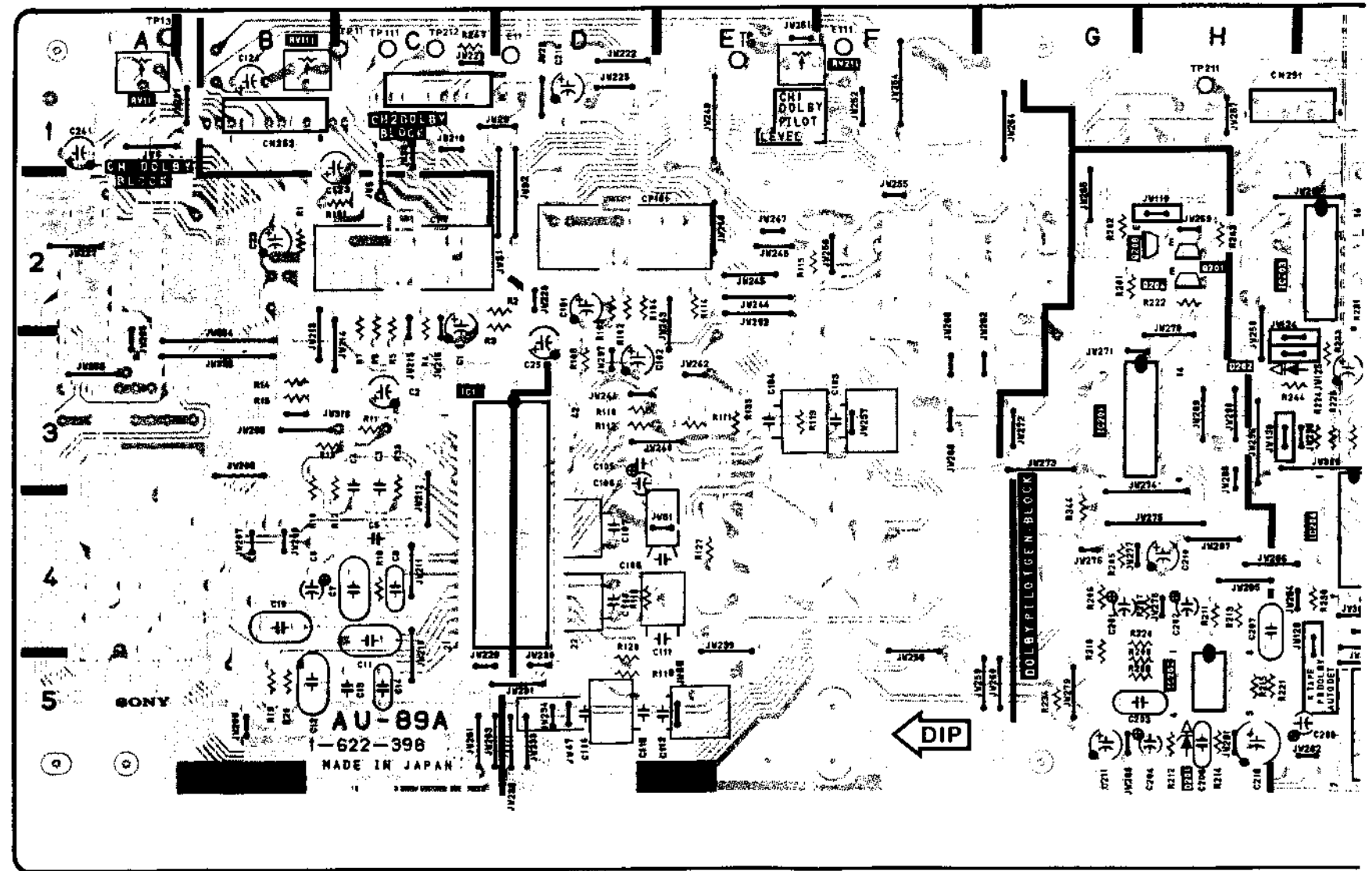
AU-89A
1-522-398-21
1P-5000

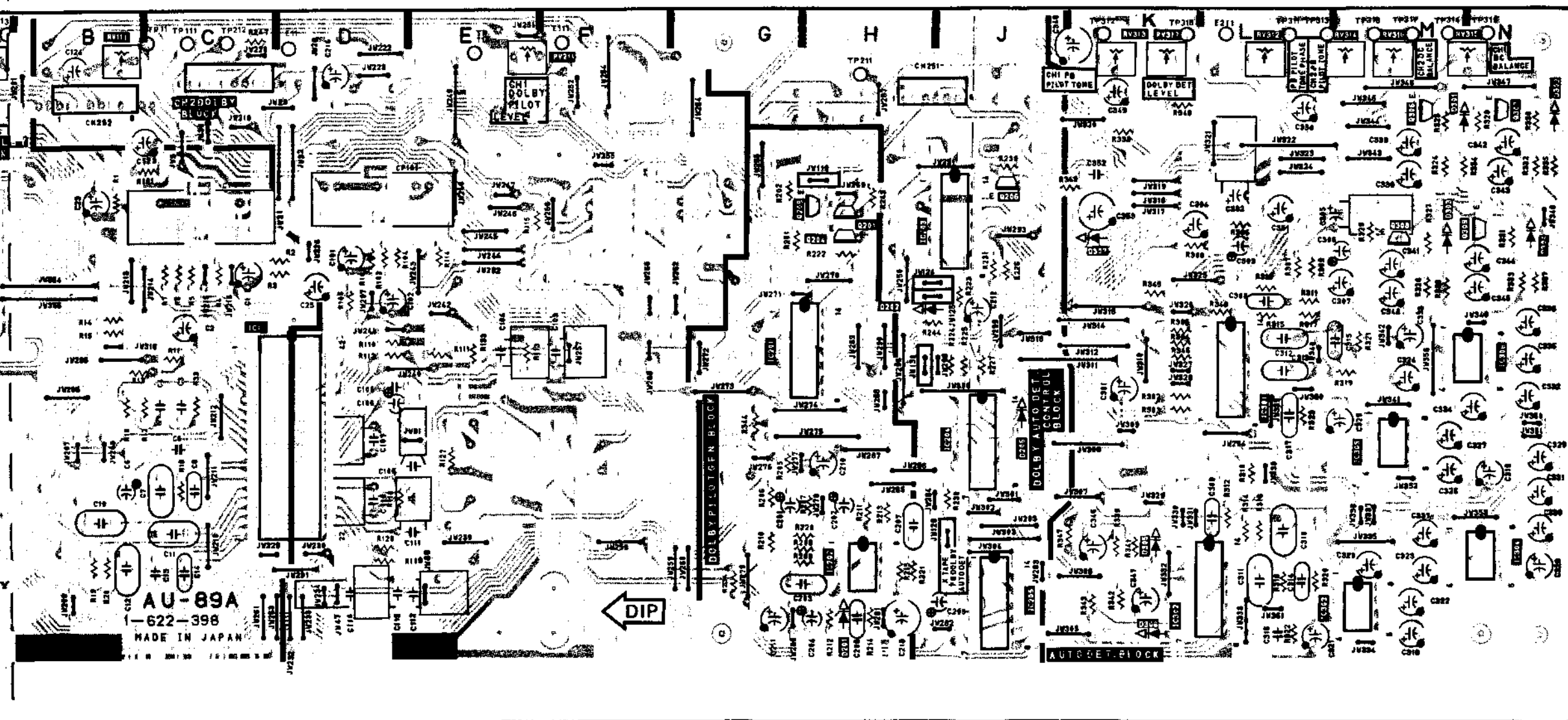
AU-89A:DOLBY

UC; S/N 10001 thru 10250
 J; S/N 10001 thru 10050

AU-89A (1-622-398-21)

- | | |
|-----------|-----------|
| CN251 H-1 | TP11 C-1 |
| CN252 B-1 | TP13 A-1 |
| CN253 C-1 | TP111 C-1 |
| | TP112 E-1 |
| CP1 C-2 | TP113 E-1 |
| CP101 D-2 | TP211 H-1 |
| | TP212 C-1 |
| D201 H-5 | TP311 L-1 |
| D202 H-3 | TP312 K-1 |
| D206 J-4 | TP313 L-1 |
| D301 M-1 | TP314 M-1 |
| D302 N-1 | TP315 N-1 |
| D303 M-2 | TP316 M-1 |
| D304 N-2 | TP317 M-1 |
| D305 K-5 | TP318 K-1 |
| D306 K-5 | |
| D307 K-2 | |
| E11 D-1 | |
| E111 F-1 | |
| E211 L-1 | |
| IC1 D-4 | |
| IC201 H-3 | |
| IC202 H-5 | |
| IC203 J-2 | |
| IC204 J-4 | |
| IC205 J-5 | |
| IC301 L-3 | |
| IC302 L-5 | |
| IC303 M-5 | |
| IC304 N-5 | |
| IC305 M-4 | |
| IC306 N-3 | |
| Q201 H-2 | |
| Q204 H-2 | |
| Q206 J-2 | |
| Q208 H-2 | |
| Q306 M-1 | |
| Q307 N-1 | |
| Q308 M-2 | |
| Q309 N-2 | |
| RV11 A-1 | |
| RV111 B-1 | |
| RV211 E-1 | |
| RV312 L-1 | |
| RV313 K-1 | |
| RV314 M-1 | |
| RV315 N-1 | |
| RV316 M-1 | |
| RV317 K-1 | |





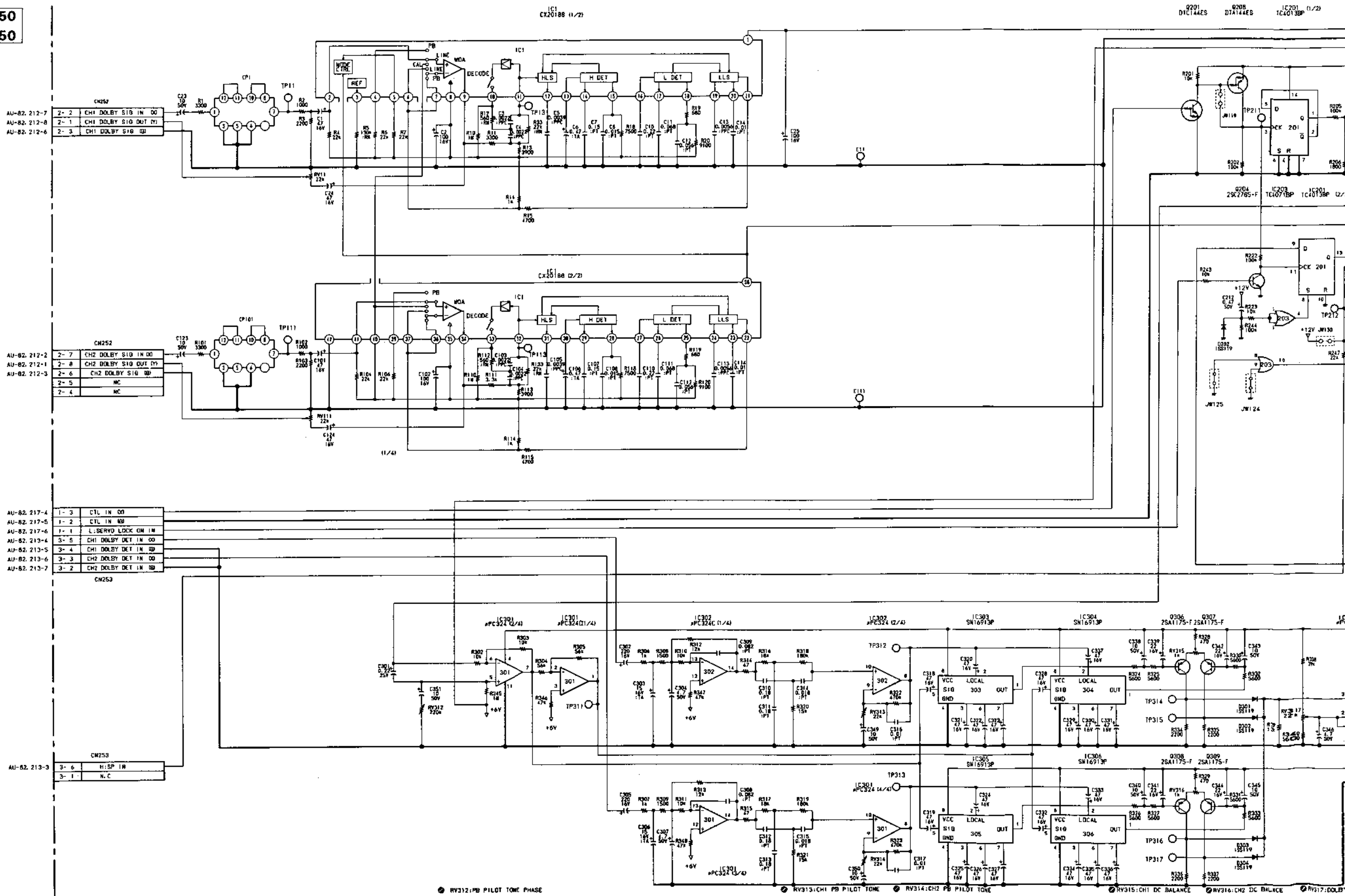
AU-89A

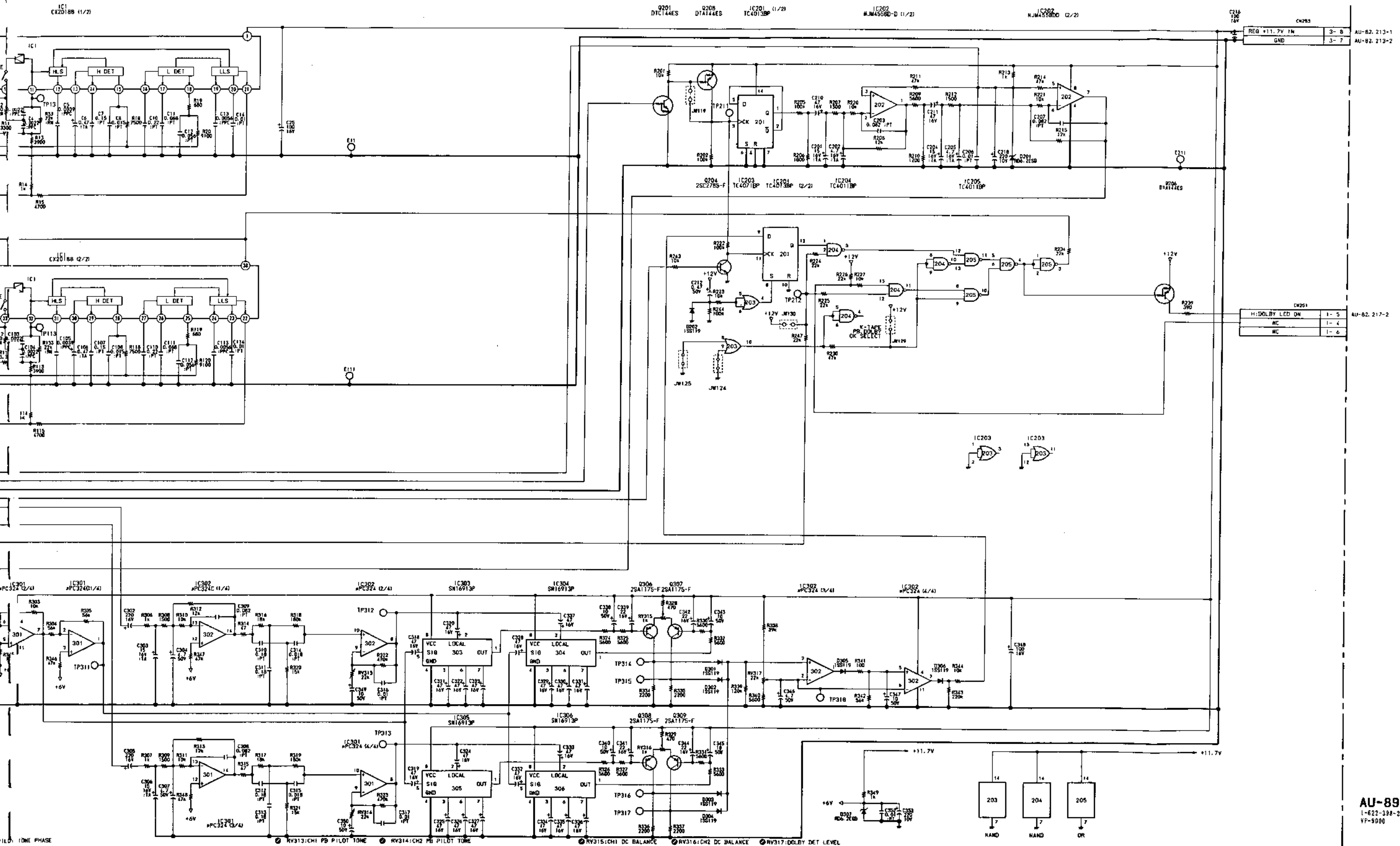
-COMPONENT SIDE-

1-622-398-21
VP-5000

AU-89A:DOLBY

UC; S/N 10251 thru 10850
J; S/N 10051 thru 10150





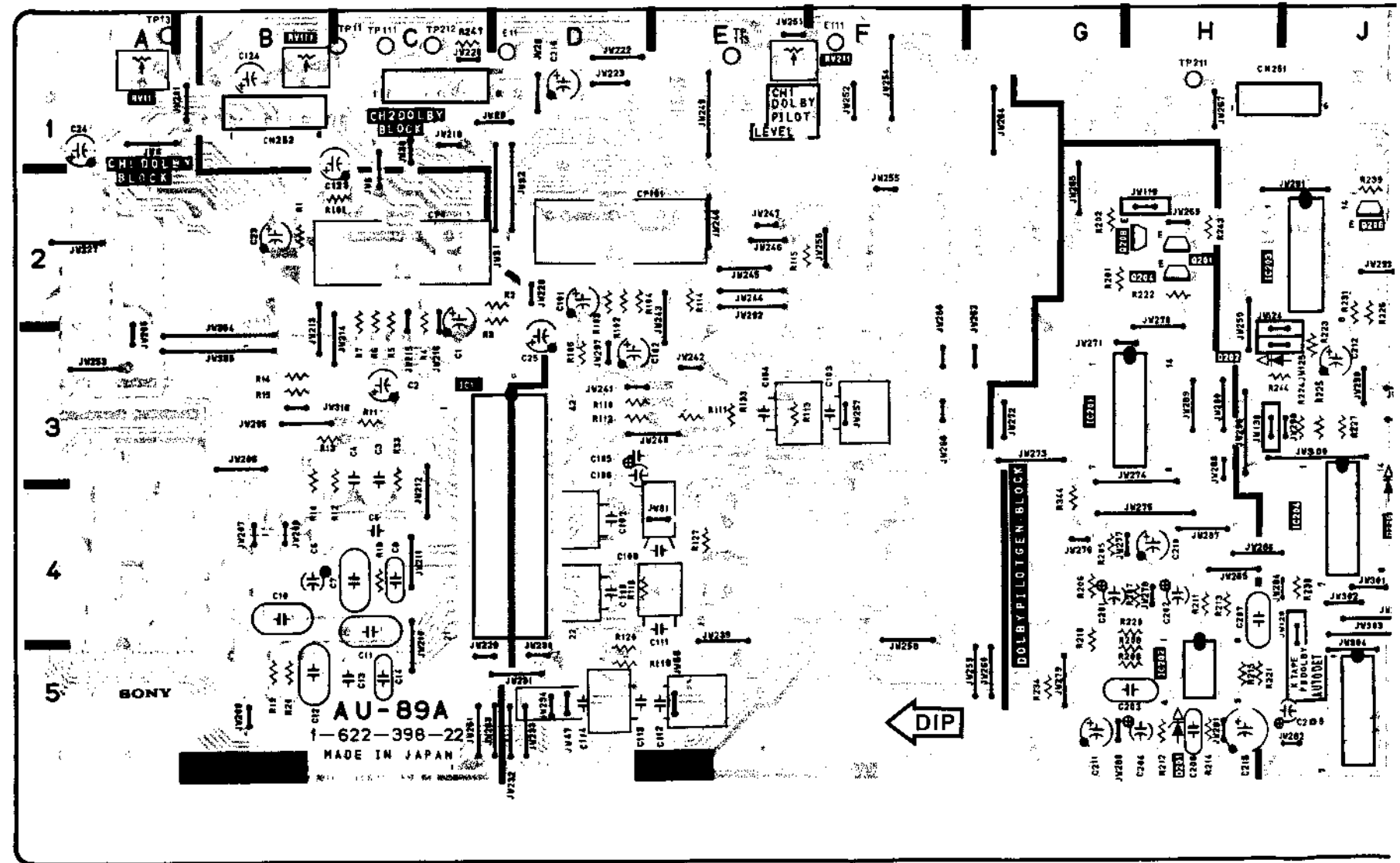
AU-89A: DOLBY

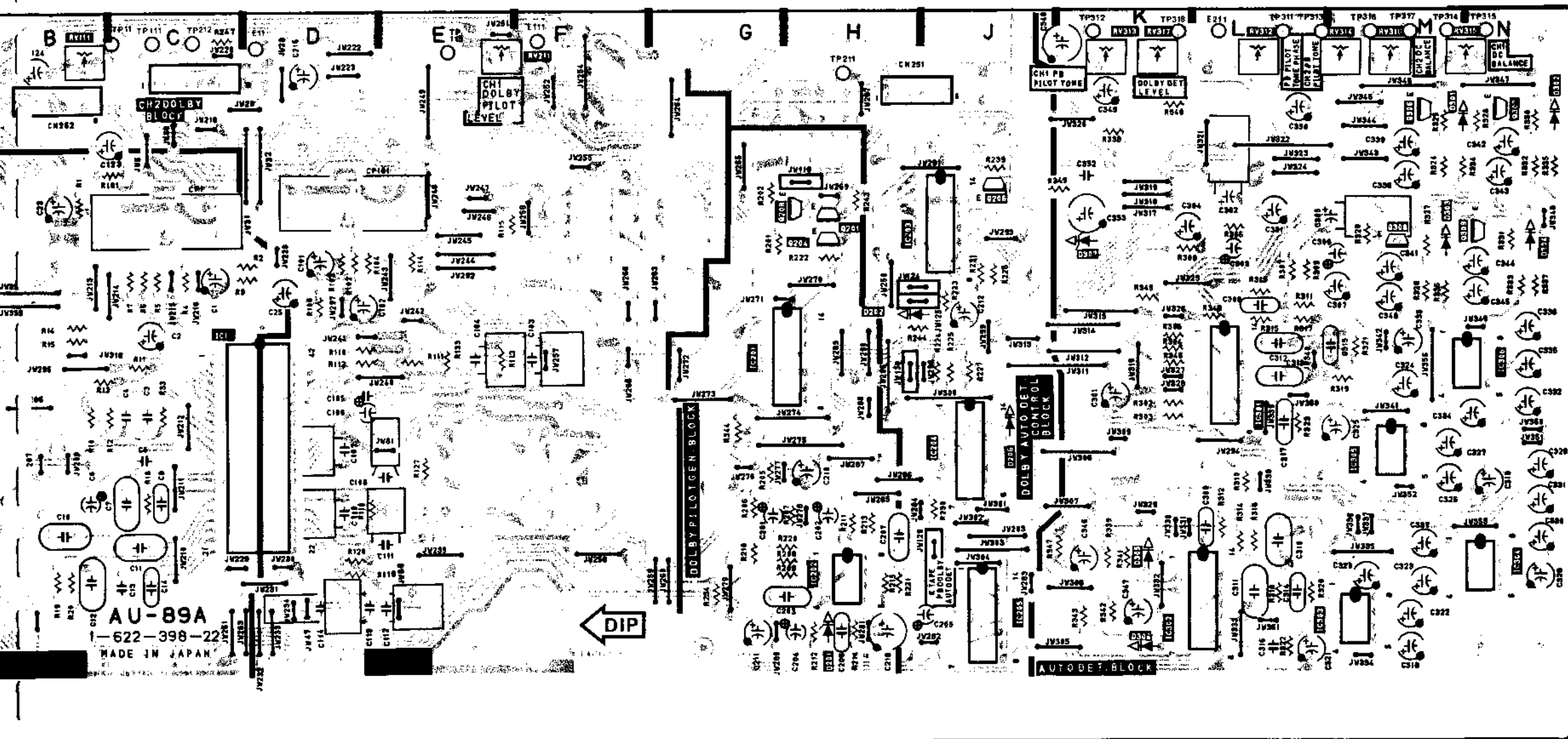
UC; S/N 10251 thru 10850

J; S/N 10051 thru 10150

AU-89A (1-622-398-22)

- | | |
|-----------|-----------|
| CN251 H-1 | TP11 C-1 |
| CN252 B-1 | TP13 A-1 |
| CN253 C-1 | TP111 C-1 |
| | TP112 E-1 |
| CP1 C-2 | TP113 E-1 |
| CP101 D-2 | TP211 H-1 |
| | TP212 C-1 |
| D201 H-5 | TP311 L-1 |
| D202 H-3 | TP312 K-1 |
| D206 J-4 | TP313 L-1 |
| D301 M-1 | TP314 M-1 |
| D302 N-1 | TP315 N-1 |
| D303 M-2 | TP316 M-1 |
| D304 N-2 | TP317 M-1 |
| D305 K-5 | TP318 K-1 |
| D306 K-5 | |
| D307 K-2 | |
| E11 D-1 | |
| E111 F-1 | |
| E211 L-1 | |
| IC1 D-4 | |
| IC201 H-3 | |
| IC202 H-5 | |
| IC203 J-2 | |
| IC204 J-4 | |
| IC205 J-5 | |
| IC301 L-3 | |
| IC302 L-5 | |
| IC303 M-5 | |
| IC304 N-5 | |
| IC305 M-4 | |
| IC306 N-3 | |
| Q201 H-2 | |
| Q204 H-2 | |
| Q206 J-2 | |
| Q208 H-2 | |
| Q306 M-1 | |
| Q307 N-1 | |
| Q308 M-2 | |
| Q309 N-2 | |
| RV11 A-1 | |
| RV111 B-1 | |
| RV211 E-1 | |
| RV312 L-1 | |
| RV313 K-1 | |
| RV314 M-1 | |
| RV315 N-1 | |
| RV316 M-1 | |
| RV317 K-1 | |

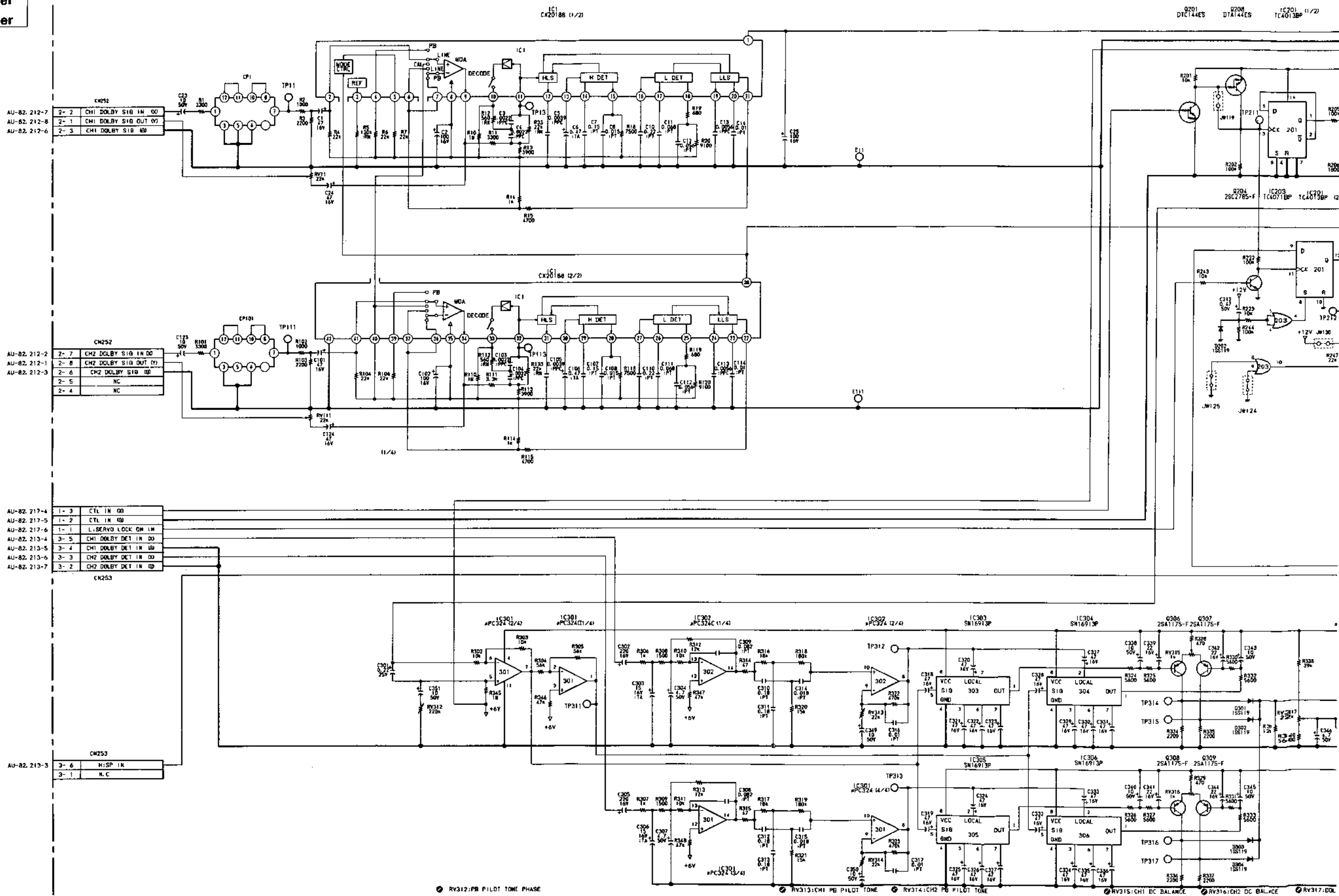


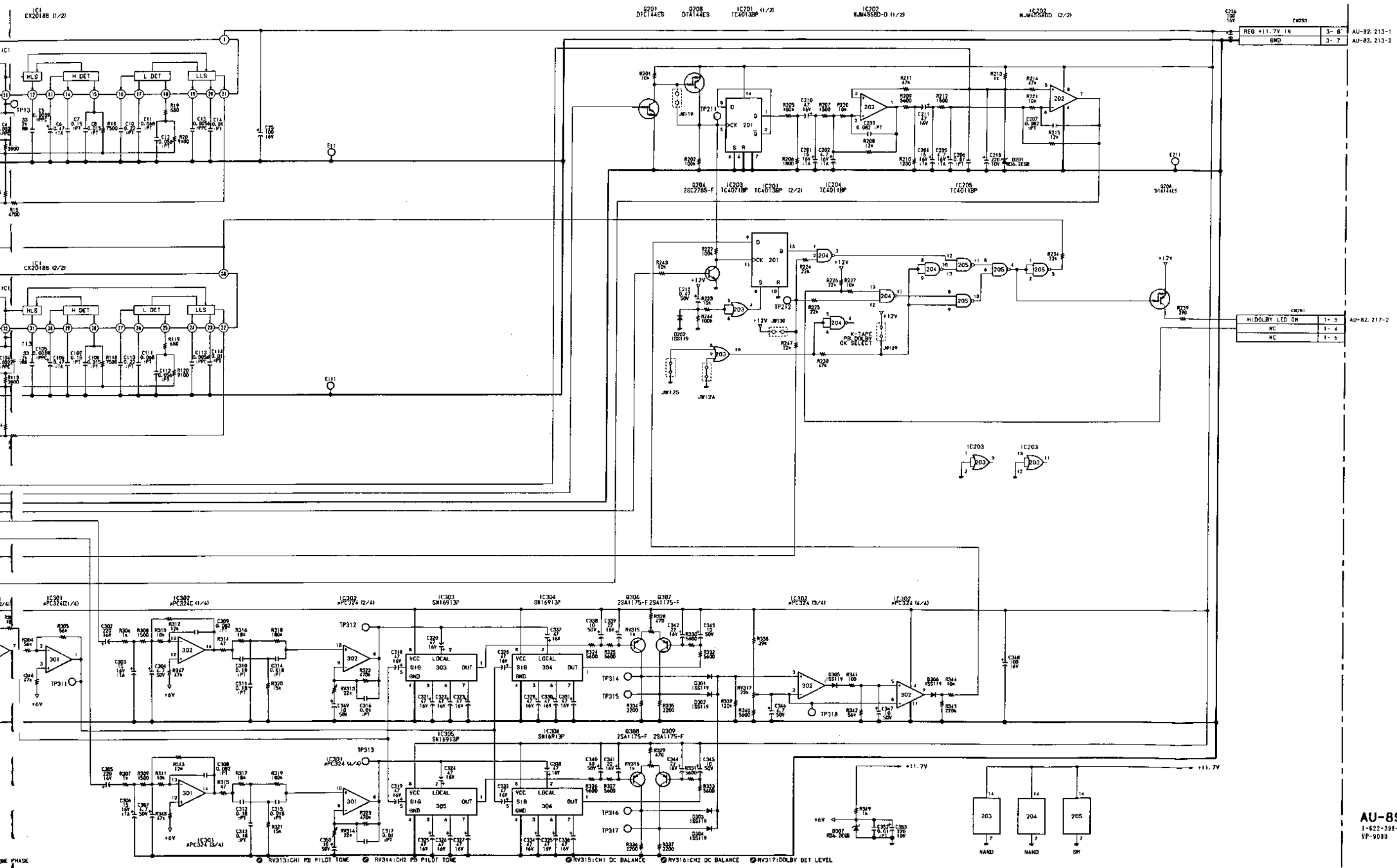


AU-89A
 -COMPONENT SIDE-
 1-622-398-22
 VP-9000

AU-89A:DOLBY

UC; S/N 10851 and higher
J; S/N 10151 and higher





REG +11.7V IN	3-6	AU-82.213-1
GND	3-7	AU-82.213-2

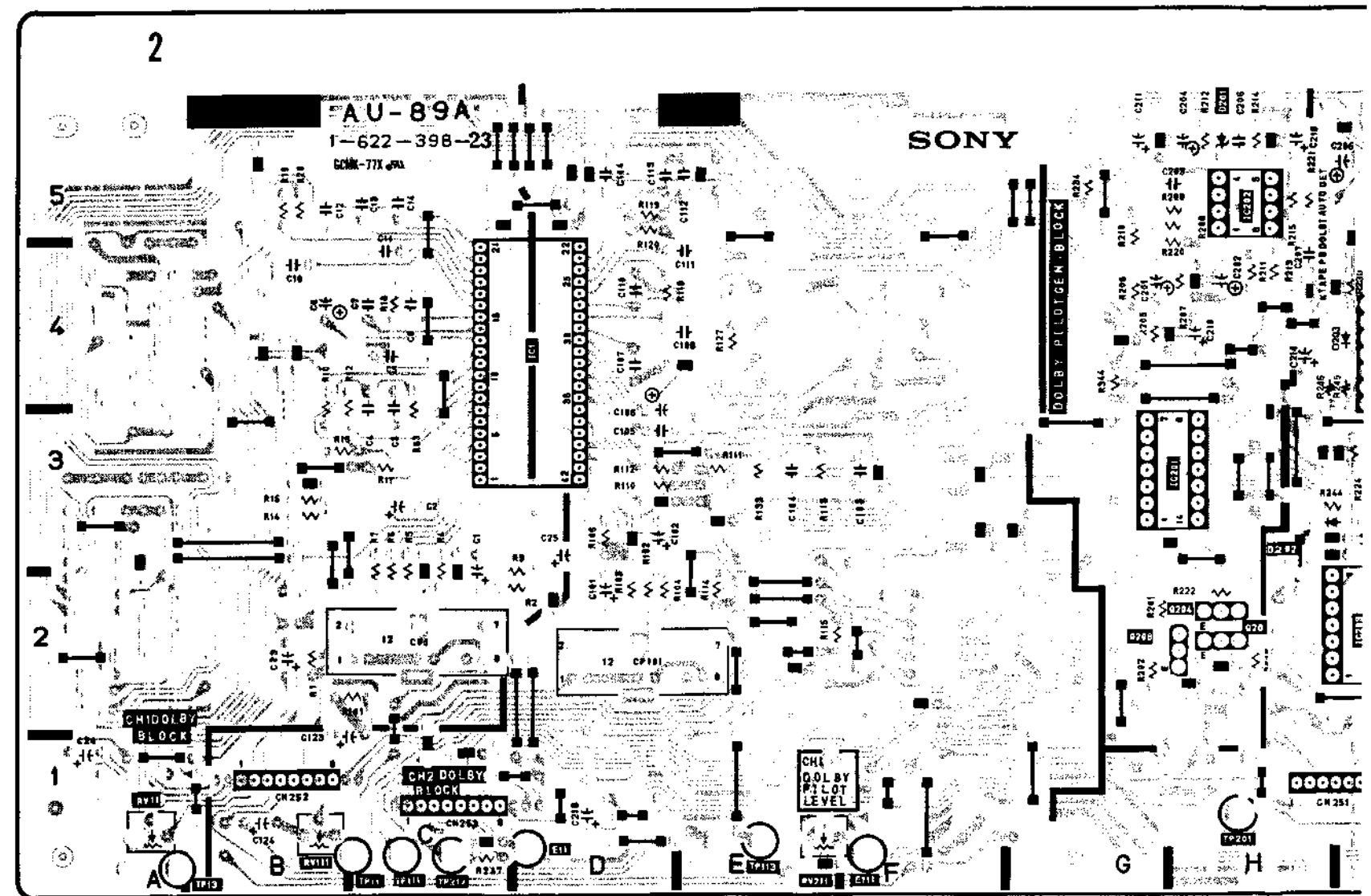
H/DOLBY LED SW	1-5	AU-82.217-2
NC	1-4	
NC	1-6	

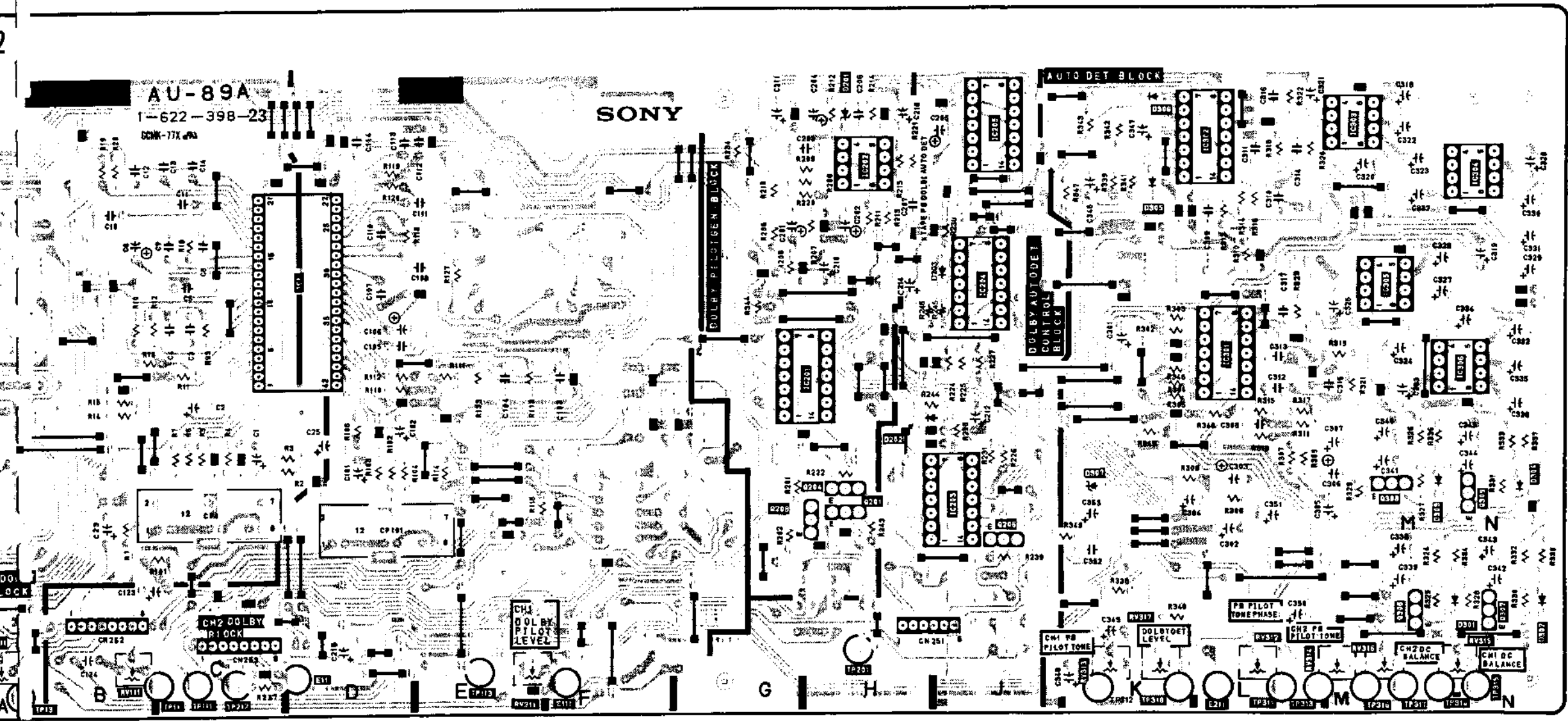
AU-89A: DOLBY

UC: S/N 10851 and higher
 J: S/N 10151 and higher

AU-89A (1-622-398-23)

- | | |
|-----------|-----------|
| CN251 H-1 | TP113 E-1 |
| CN252 B-1 | TP201 H-1 |
| CN253 C-1 | TP212 C-1 |
| | TP311 L-1 |
| CP1 C-2 | TP312 K-1 |
| CP101 D-2 | TP313 L-1 |
| | TP314 M-1 |
| D201 H-5 | TP315 N-1 |
| D202 H-3 | TP316 M-1 |
| D203 J-4 | TP317 M-1 |
| D301 N-1 | TP318 K-1 |
| D302 N-1 | |
| D303 M-2 | |
| D304 N-2 | |
| D305 K-5 | |
| D306 K-5 | |
| D307 K-2 | |
| E11 D-1 | |
| E111 F-1 | |
| E211 L-1 | |
| IC1 D-4 | |
| IC201 H-3 | |
| IC202 H-5 | |
| IC204 J-4 | |
| IC205 J-5 | |
| IC301 L-3 | |
| IC302 L-5 | |
| IC303 M-5 | |
| IC304 N-5 | |
| IC305 M-4 | |
| IC306 N-3 | |
| Q201 H-2 | |
| Q204 H-2 | |
| Q206 J-2 | |
| Q306 M-1 | |
| Q307 N-1 | |
| Q308 M-2 | |
| Q309 N-2 | |
| RV11 A-1 | |
| RV111 B-1 | |
| RV211 E-1 | |
| RV311 L-1 | |
| RV313 K-1 | |
| RV314 M-1 | |
| RV315 N-1 | |
| RV316 M-1 | |
| RV317 K-1 | |
| TP11 C-1 | |
| TP13 A-1 | |
| TP111 C-1 | |



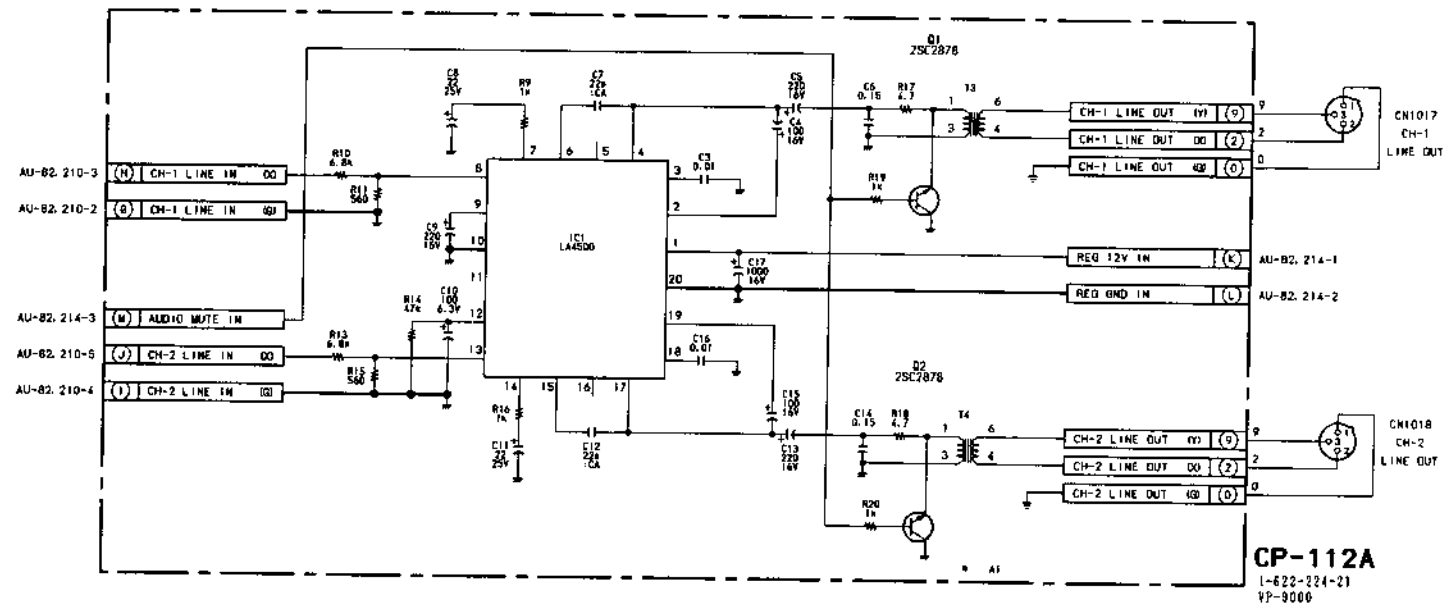


AU-89A
 1-622-398-23
 DCNM-77X 4/78

SONY

AU-89A
 -COMPONENT SIDE-
 1-622-398-23
 VP-9000

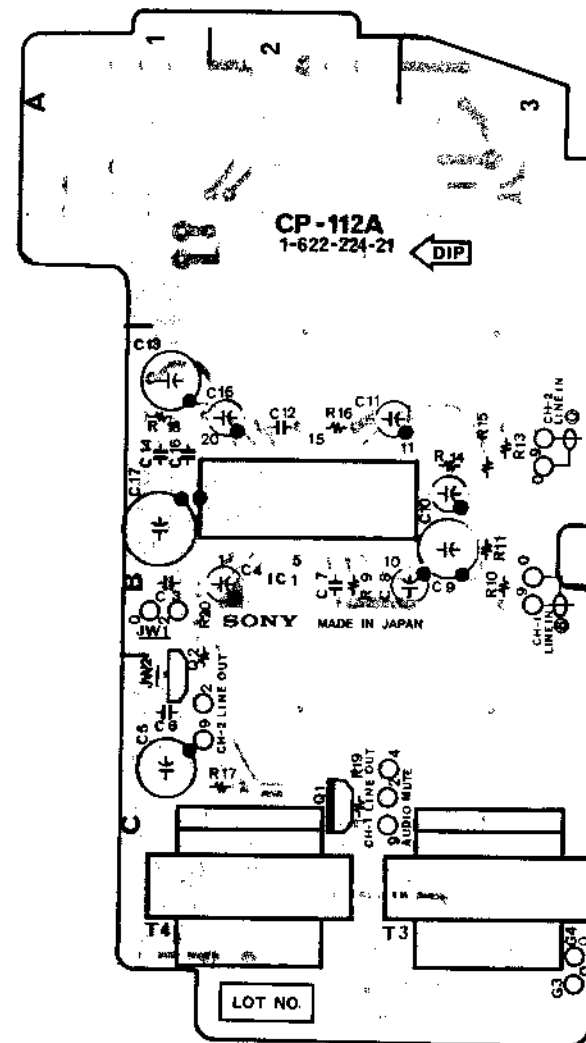
CP-112A: OUTPUT AMPLIFIER



CP-112A: OUTPUT AMPLIFIER

CP-112A (1-622-224-21)

- IC1 B-2
- Q1 C-2
- Q2 C-1
- T3 C-3
- T4 C-2



CP-112A

-COMPONENT SIDE-

1-622-224-21
VP-3000

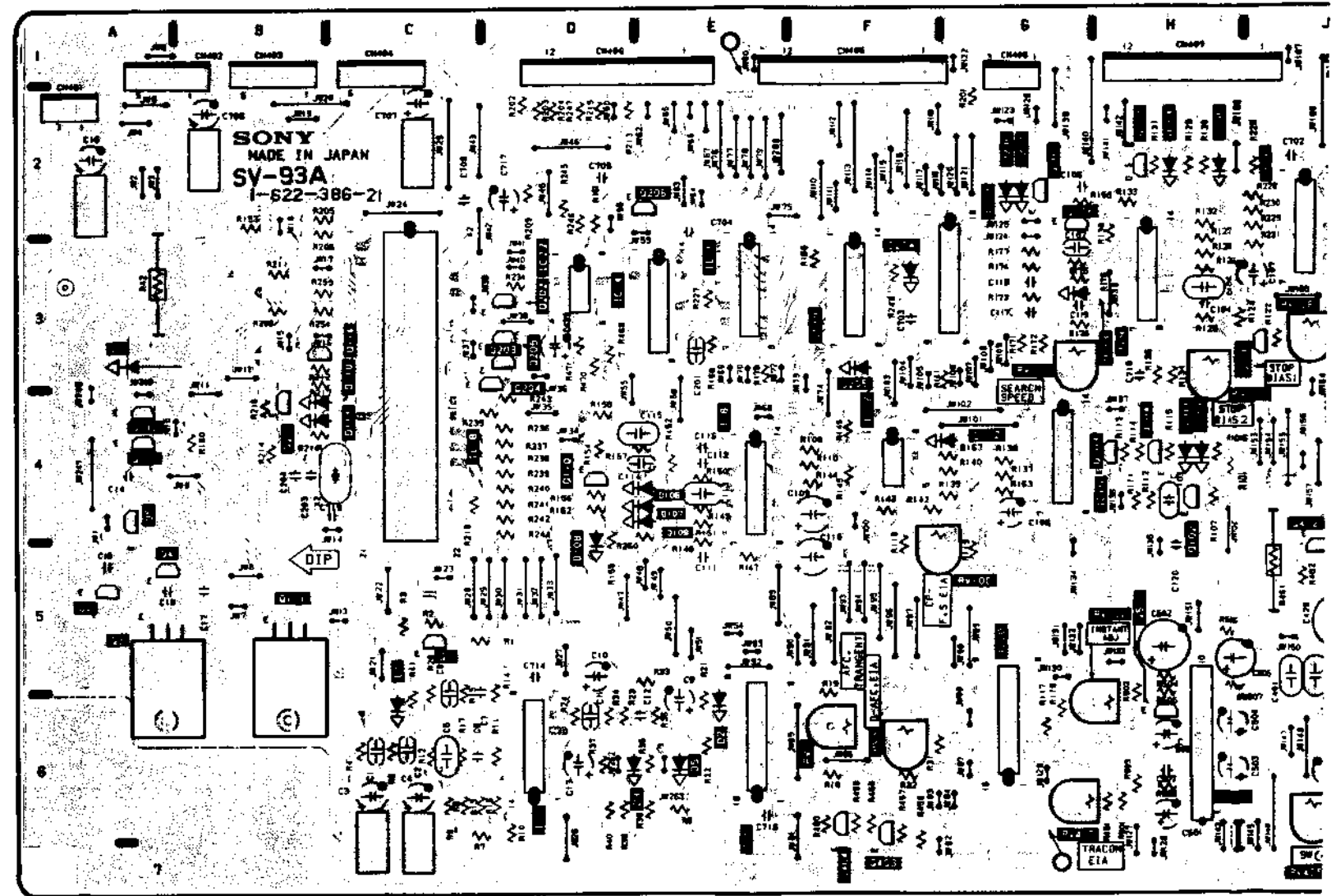
SV-93A: SERVO SYSTEM

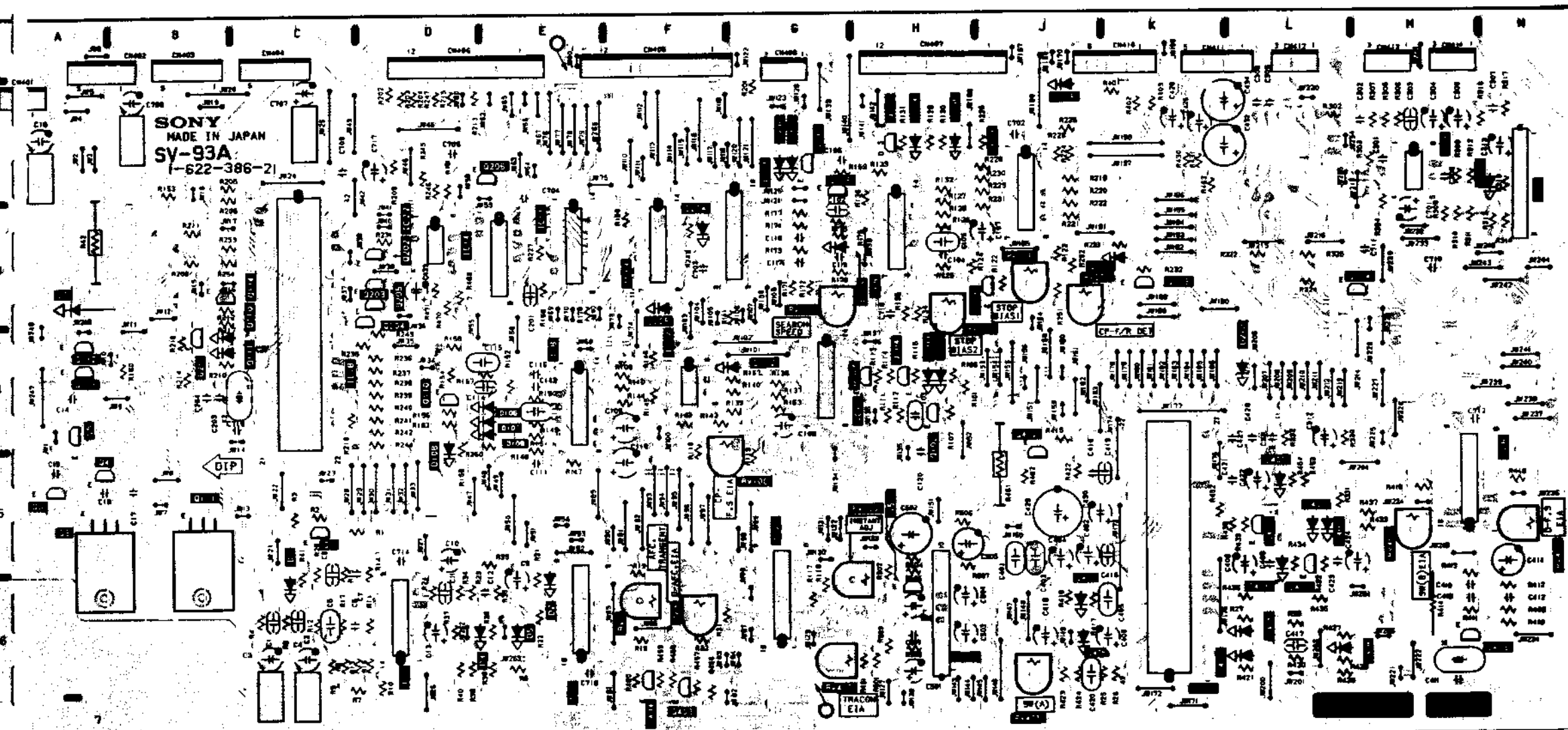
UC; S/N 10001 thru 10850

J; S/N 10001 thru 10150

SV-93A (1-622-386-21)

CN401 A-2	IC10 J-2	RV401 N
CN402 A-1	IC11 E-3	RV403 M
CN403 B-1	IC12 F-4	RV405 J
CN404 C-1	IC13 G-3	RV407 G
CN405 F-1	IC14 E-3	
CN406 D-1	IC15 G-4	X1 M
CN407 H-1	IC17 K-5	X2 C
CN409 G-1	IC18 C-3	
CN410 K-1	IC19 F-3	
CN411 K-1	IC20 G-6	
CN412 L-1	IC21 H-6	
CN413 M-1	IC22 D-3	
CN414 M-1		
D1 C-6	Q1 C-5	
D2 E-6	Q2 A-5	
D3 E-6	Q3 A-5	
D5 E-6	Q4 A-5	
D7 A-3	Q5 A-4	
D101 H-4	Q101 G-2	
D103 H-4	Q102 H-4	
D104 H-2	Q103 H-4	
D105 H-2	Q104 H-4	
D106 E-4	Q106 J-3	
D107 E-4	Q107 H-2	
D108 D-5	Q108 G-2	
D109 E-4	Q109 K-3	
D110 B-4	Q110 D-4	
D111 B-4	Q111 B-5	
D112 G-4	Q112 A-4	
D113 G-3	Q113 A-4	
D204 F-3	Q114 B-3	
D205 F-3	Q201 B-4	
D206 G-2	Q202 D-3	
D207 G-2	Q203 D-3	
D208 J-2	Q204 D-3	
D210 L-4	Q205 D-3	
D211 K-3	Q206 E-2	
D303 N-2	Q304 M-3	
D402 L-5	Q401 L-5	
D404 L-5	Q403 F-6	
D405 L-5	Q404 F-6	
D406 L-6	Q408 M-6	
D407 L-5	Q411 L-5	
D408 L-6	Q412 J-5	
D409 J-6	Q501 H-6	
D410 J-6	RV1 F-6	
D411 L-6	RV3 F-6	
	RV100 F-5	
IC1 D-6	RV101 G-3	
IC2 N-2	RV102 H-6	
IC3 M-2	RV106 J-3	
IC5 E-6	RV107 H-3	
IC6 M-5	RV201 J-3	
IC8 E-4		
IC9 H-3		



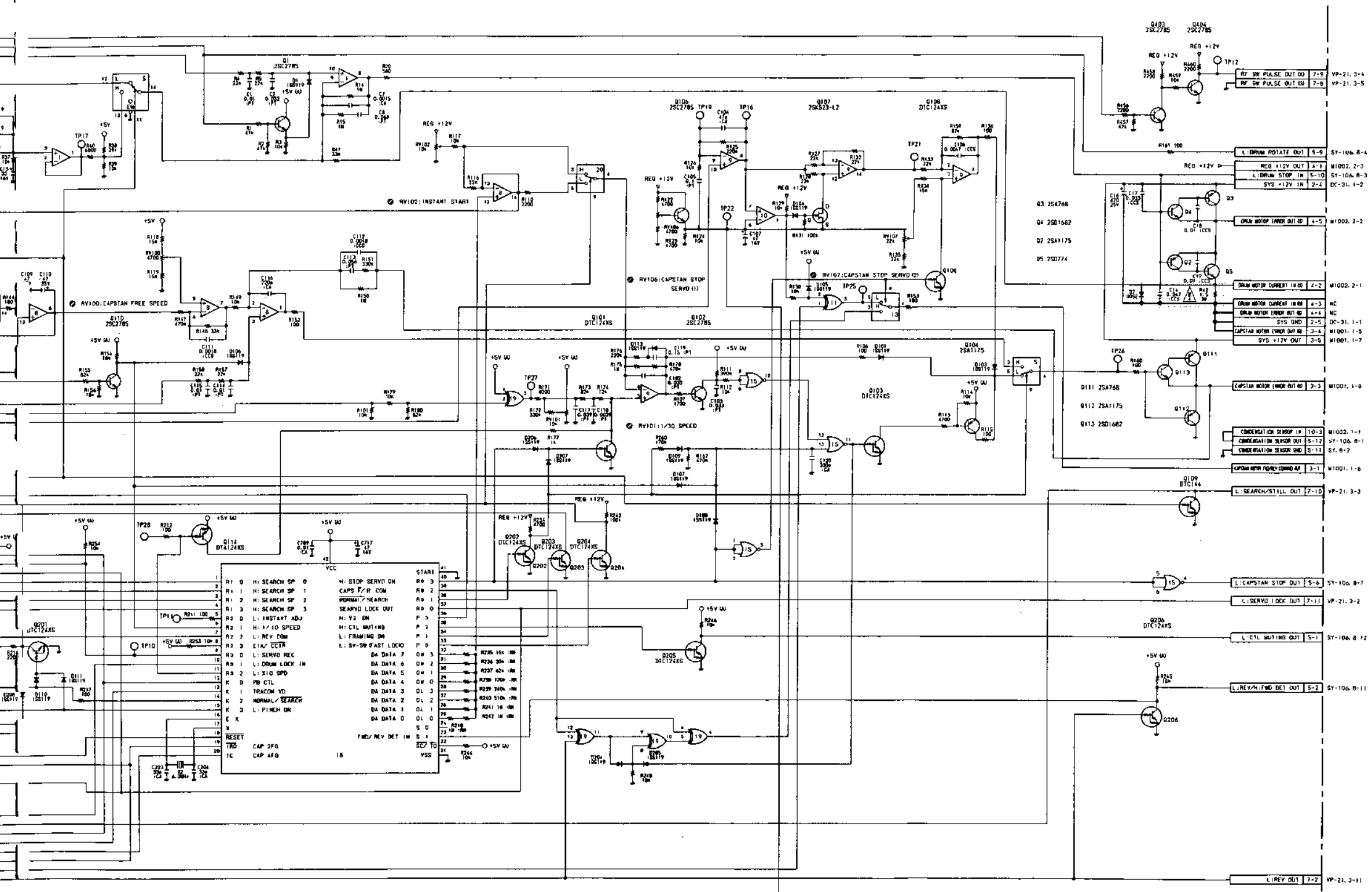


SONY
MADE IN JAPAN
SV-93A
1-622-386-21

SV-93A

-COMPONENT SIDE-

1-622-386-21
VP-5600



注意 1: △印及び●印で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

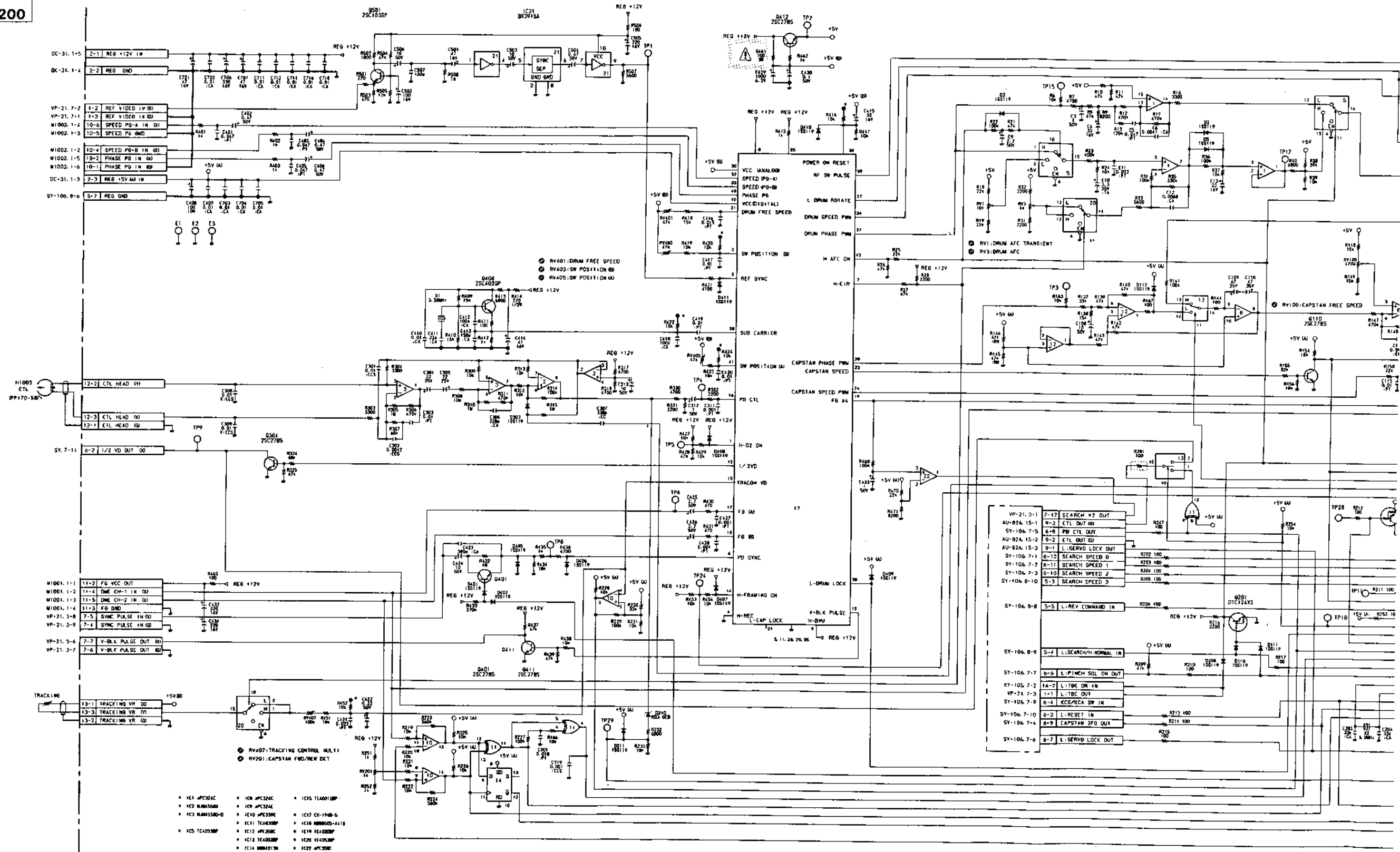
NOTE:
The shaded and △-marked components are critical to safety.
Replace only with same components as specified.

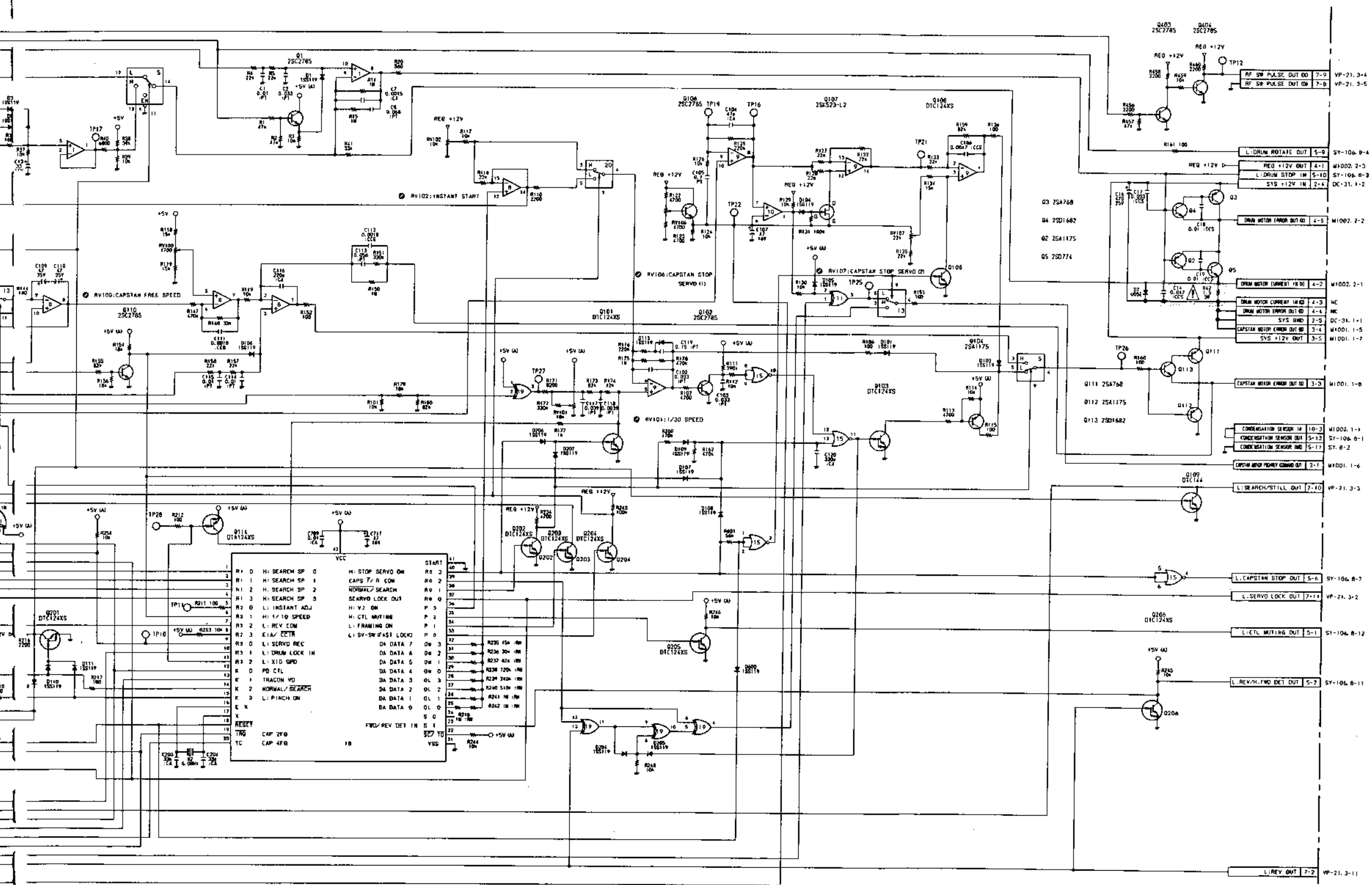
SV-93A
1-622-385-21
VP-5000

SV-93A:SERVO SYSTEM

UC; S/N 10851 thru 11700

J; S/N 10151 thru 10200





注意1: △印及び●で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE:
The shaded and △ marked components are critical to safety.
Replace only with same components as specified.

SV-93A
1-822-885-22
VP-9000

SV-93A:SERVO SYSTEM

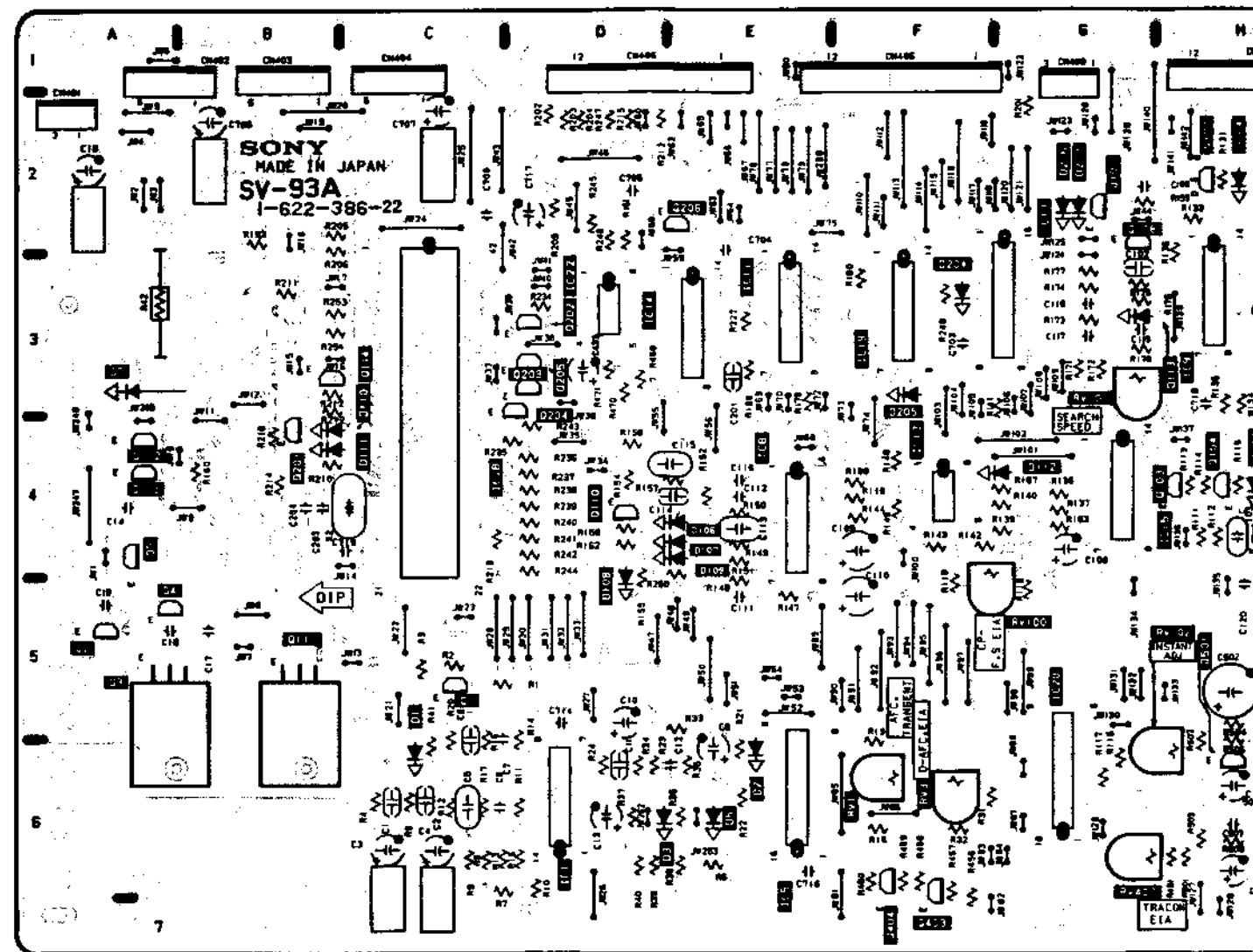
UC; S/N 10851 thru 11700

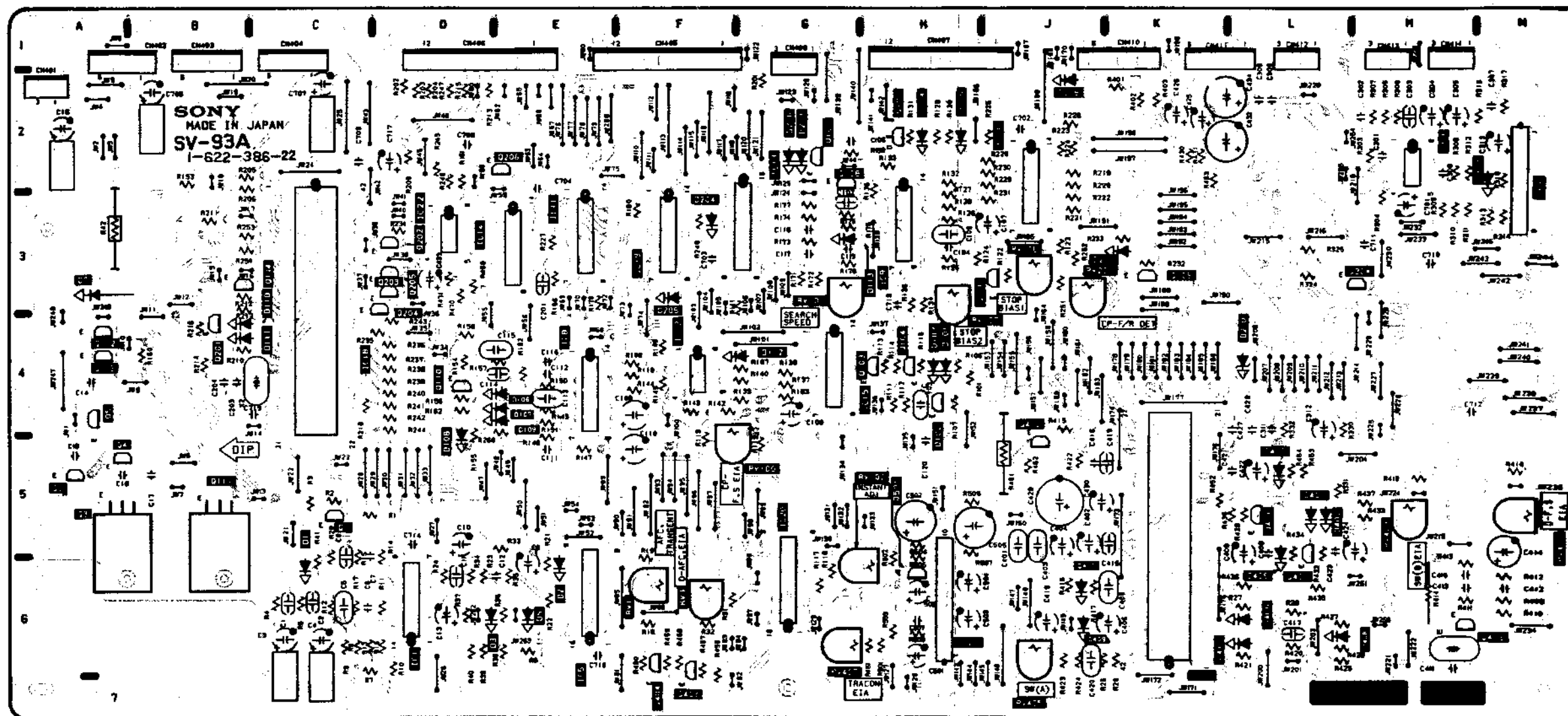
J; S/N 10151 thru 10200

SV-93A (1-622-386-22)

CN401	A-2	IC11	E-3
CN402	B-1	IC12	F-4
CN403	B-1	IC13	G-3
CN404	C-1	IC14	E-3
CN405	F-1	IC15	G-4
CN406	D-1	IC17	K-5
CN407	H-1	IC18	C-3
CN409	G-1	IC19	F-3
CN410	K-1	IC20	G-6
CN411	K-1	IC21	H-6
CN412	L-1	IC22	D-3
CN413	M-1		
CN414	M-1	Q1	C-5
		Q2	A-5
D1	C-6	Q3	A-5
D2	E-6	Q4	A-5
D3	D-6	Q5	A-4
D5	E-6	Q101	G-2
D7	A-3	Q102	H-4
D101	H-4	Q103	H-4
D103	H-4	Q104	H-4
D104	H-2	Q106	J-3
D105	H-2	Q107	H-2
D106	E-4	Q108	G-2
D107	E-4	Q109	K-3
D108	D-5	Q110	D-4
D109	E-4	Q111	B-5
D110	B-4	Q112	A-4
D111	B-4	Q113	A-4
D112	G-4	Q114	B-3
D113	G-3	Q201	B-4
D204	F-3	Q202	D-3
D205	F-3	Q203	D-3
D206	G-2	Q204	D-3
D207	G-2	Q205	D-3
D208	J-2	Q206	E-2
D210	L-4	Q304	M-3
D211	K-3	Q401	L-6
D303	N-2	Q403	F-6
D401	L-5	Q404	F-6
D402	L-5	Q408	M-6
D405	L-6	Q411	L-5
D406	L-6	Q412	J-5
D407	L-5	Q501	H-6
D408	L-6		
D409	J-6	RV1	F-6
D410	J-6	RV3	F-6
D411	L-6	RV100	F-5
		RV101	G-3
IC1	D-6	RV102	H-6
IC2	N-2	RV106	J-3
IC3	M-2	RV107	H-3
IC5	E-6	RV201	J-3
IC8	E-4	RV401	N-5
IC9	H-3	RV403	M-5
IC10	J-2	RV405	J-6

RV407	G-6
X1	M-6
X2	C-4





SV-93A

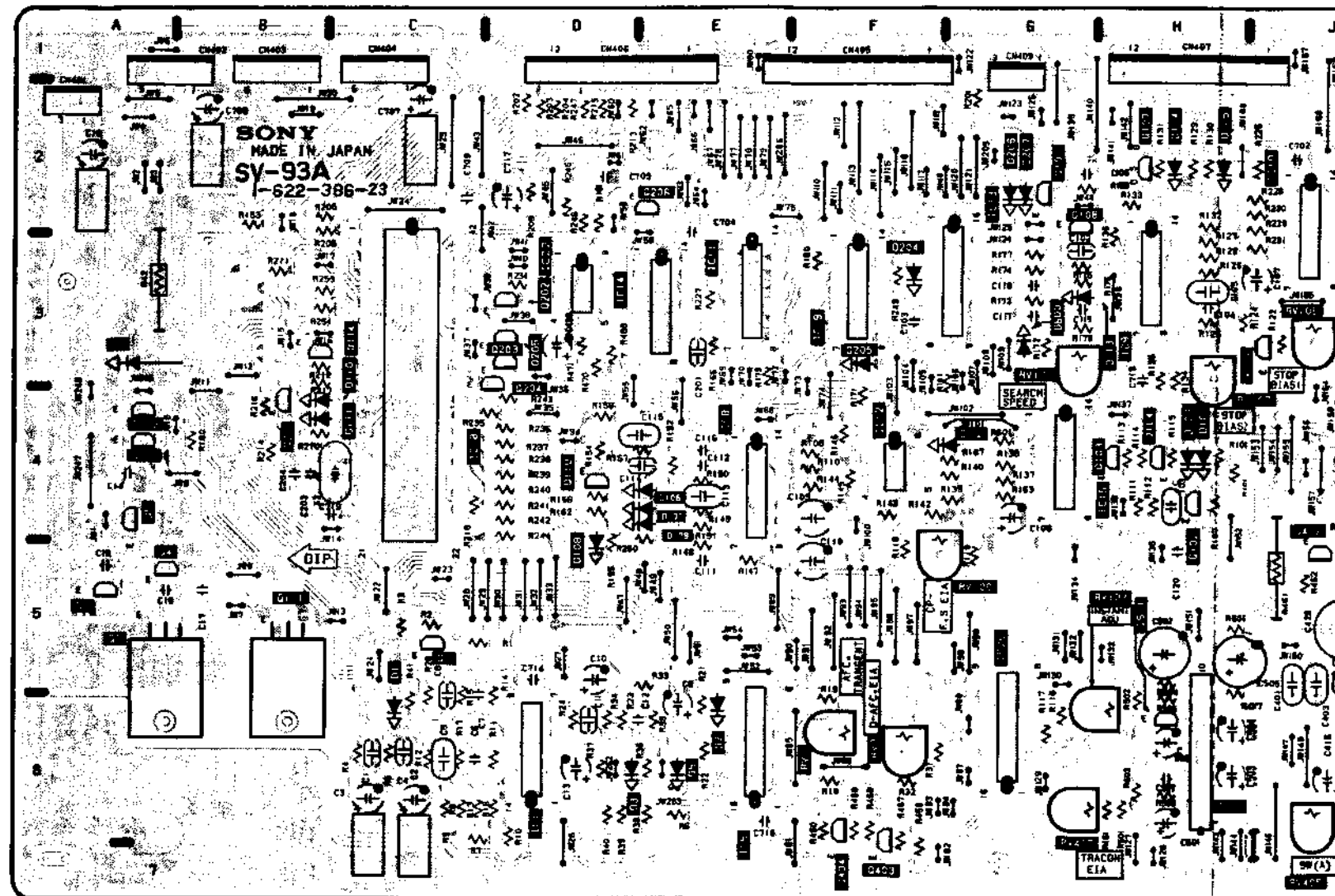
-COMPONENT SIDE-
1-622-386-22
VP-9000

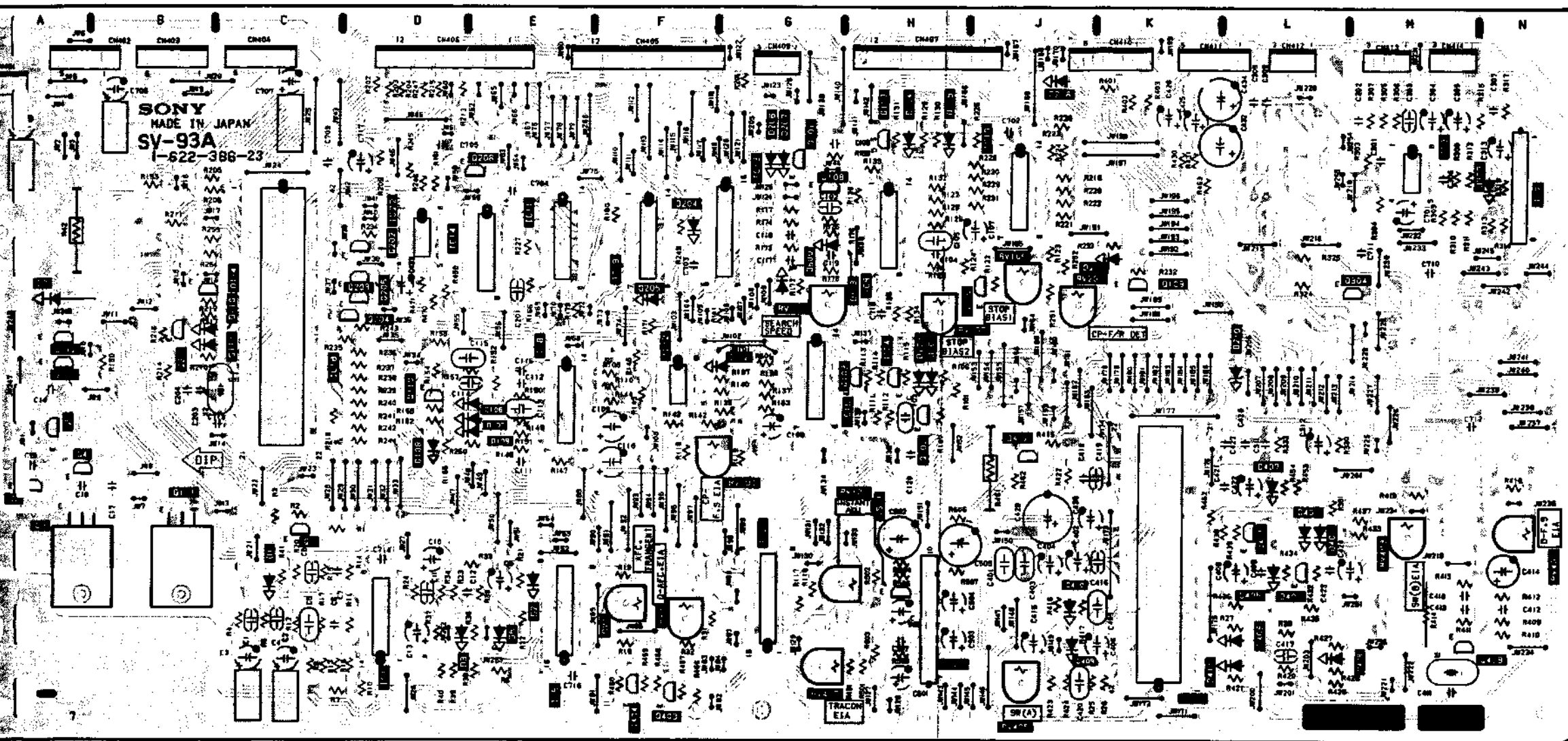
SV-93A: SERVO SYSTEM

UC: S/N 11701 and higher
 J: S/N 10201 and higher

SV-93A (1-622-386-23)

CN401 A-2	IC10	J-2	RV405	J-6
CN402 A-1	IC11	E-3	RV407	G-6
CN403 B-1	IC12	F-4		
CN404 C-1	IC13	G-3	X1	M-6
CN405 F-1	IC14	E-3	X2	C-4
CN406 D-1	IC15	G-4		
CN407 H-1	IC17	K-5		
CN409 G-1	IC18	C-3		
CN410 K-1	IC19	F-3		
CN411 K-1	IC20	G-6		
CN412 L-1	IC21	H-6		
CN413 M-1	IC22	D-3		
CN414 M-1				
	Q1	C-5		
D1	C-6	Q2	A-5	
D2	E-6	Q3	A-5	
D3	E-6	Q4	A-5	
D5	E-6	Q5	A-4	
D7	A-3	Q101	G-2	
D101	H-4	Q102	H-4	
D103	H-4	Q103	H-4	
D104	H-2	Q104	H-4	
D105	H-2	Q106	J-3	
D106	E-4	Q107	H-2	
D107	E-4	Q108	G-2	
D108	D-5	Q109	K-3	
D109	E-4	Q110	D-4	
D110	B-4	Q111	B-5	
D111	B-4	Q112	A-4	
D112	G-4	Q113	A-4	
D113	G-3	Q114	B-3	
D204	F-3	Q201	B-4	
D205	F-3	Q202	D-3	
D206	G-2	Q203	D-3	
D207	G-2	Q204	D-3	
D208	J-2	Q205	D-3	
D210	L-4	Q206	E-2	
D211	K-3	Q304	M-3	
D303	N-2	Q401	L-5	
D401	L-5	Q403	F-6	
D402	L-5	Q404	F-6	
D405	L-5	Q408	M-6	
D406	L-6	Q411	L-5	
D407	L-5	Q412	J-5	
D408	L-6	Q501	H-6	
D409	J-6			
D410	J-6	RV1	F-6	
D411	L-6	RV3	F-6	
D600	G-3	RV100	F-5	
		RV101	G-3	
IC1	D-6	RV102	H-6	
IC2	N-2	RV106	J-3	
IC3	M-2	RV107	H-3	
IC5	E-6	RV201	J-3	
IC8	E-4	RV401	N-5	
IC9	H-3	RV403	M-5	



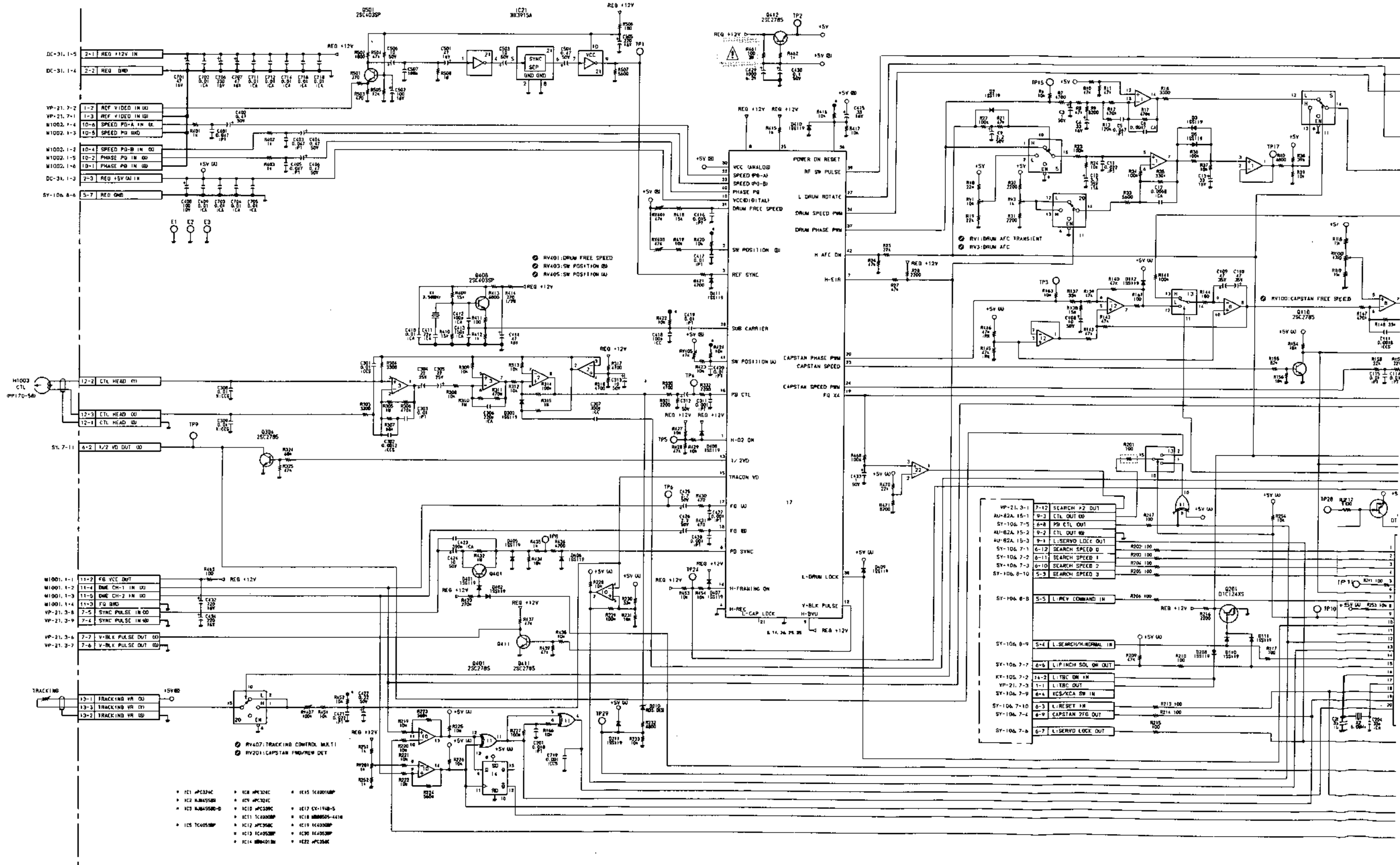


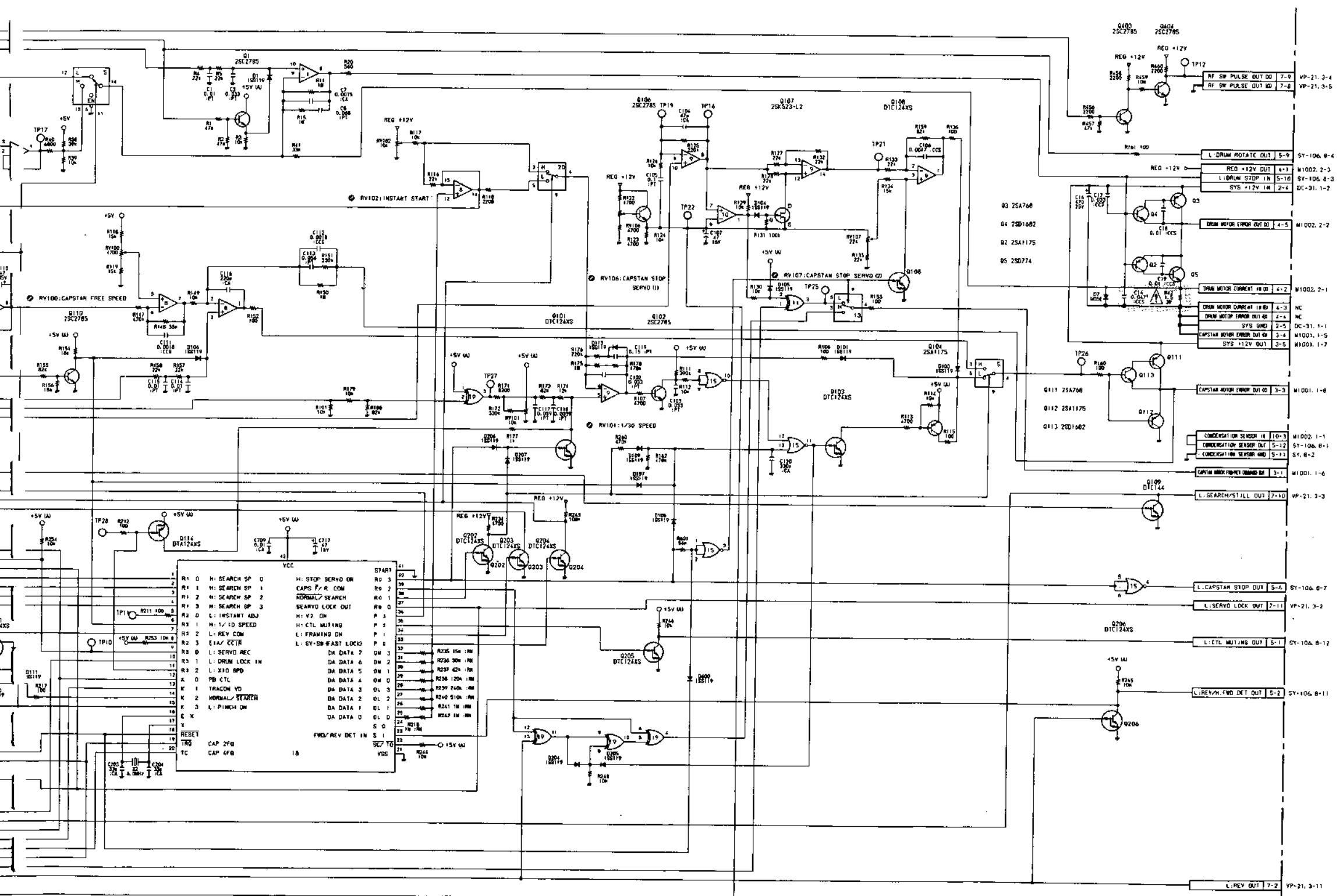
SV-93A

-COMPONENT SIDE-
1-622-386-23
VP-9000

SV-93A:SERVO SYSTEM

UC; S/N 11701 and higher
 J; S/N 10201 and higher





注意 1: △印及び [] で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を替って下さい。

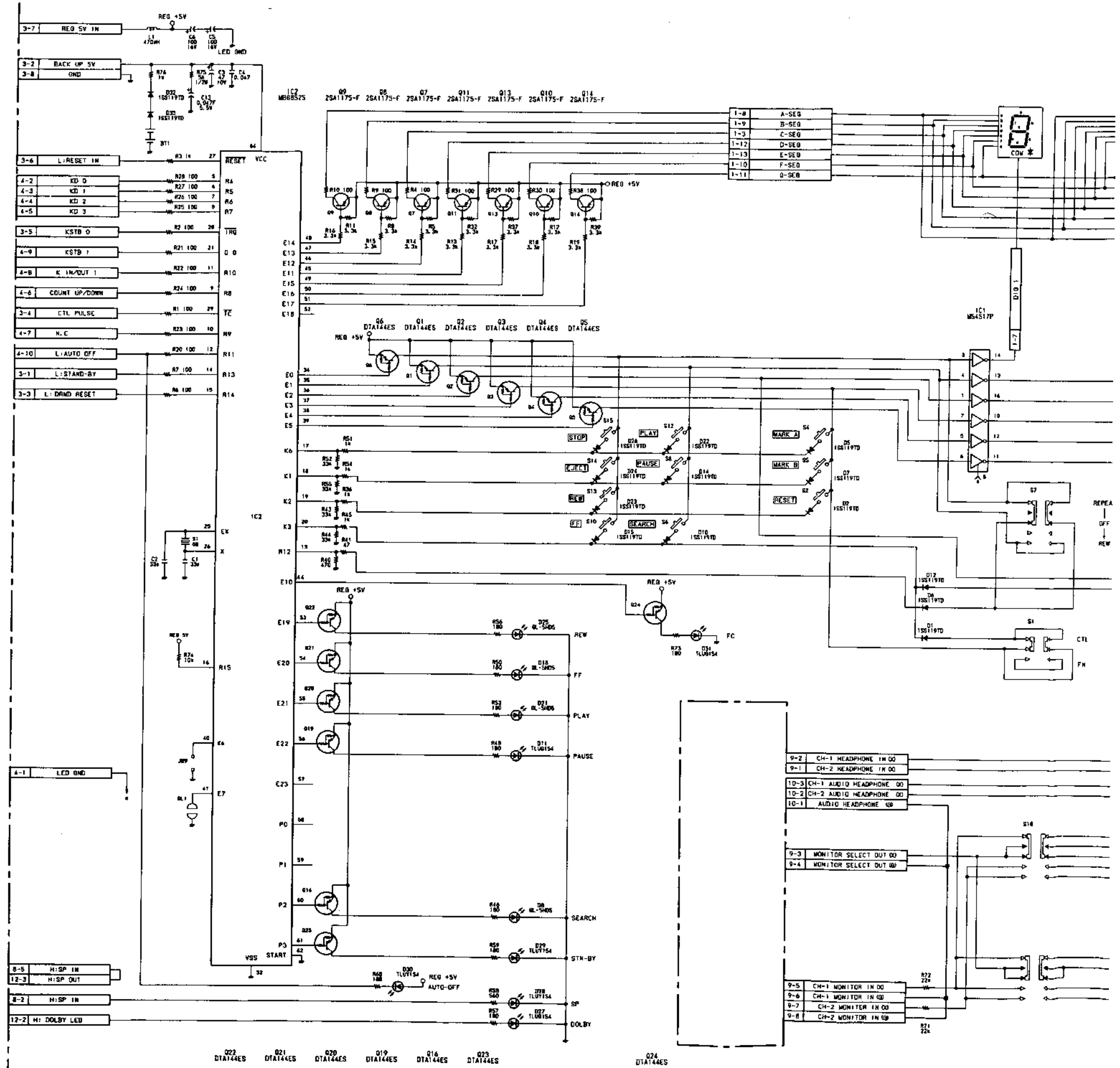
NOTE:
The shaded and △-marked components are critical to safety.
Replace only with same components as specified.

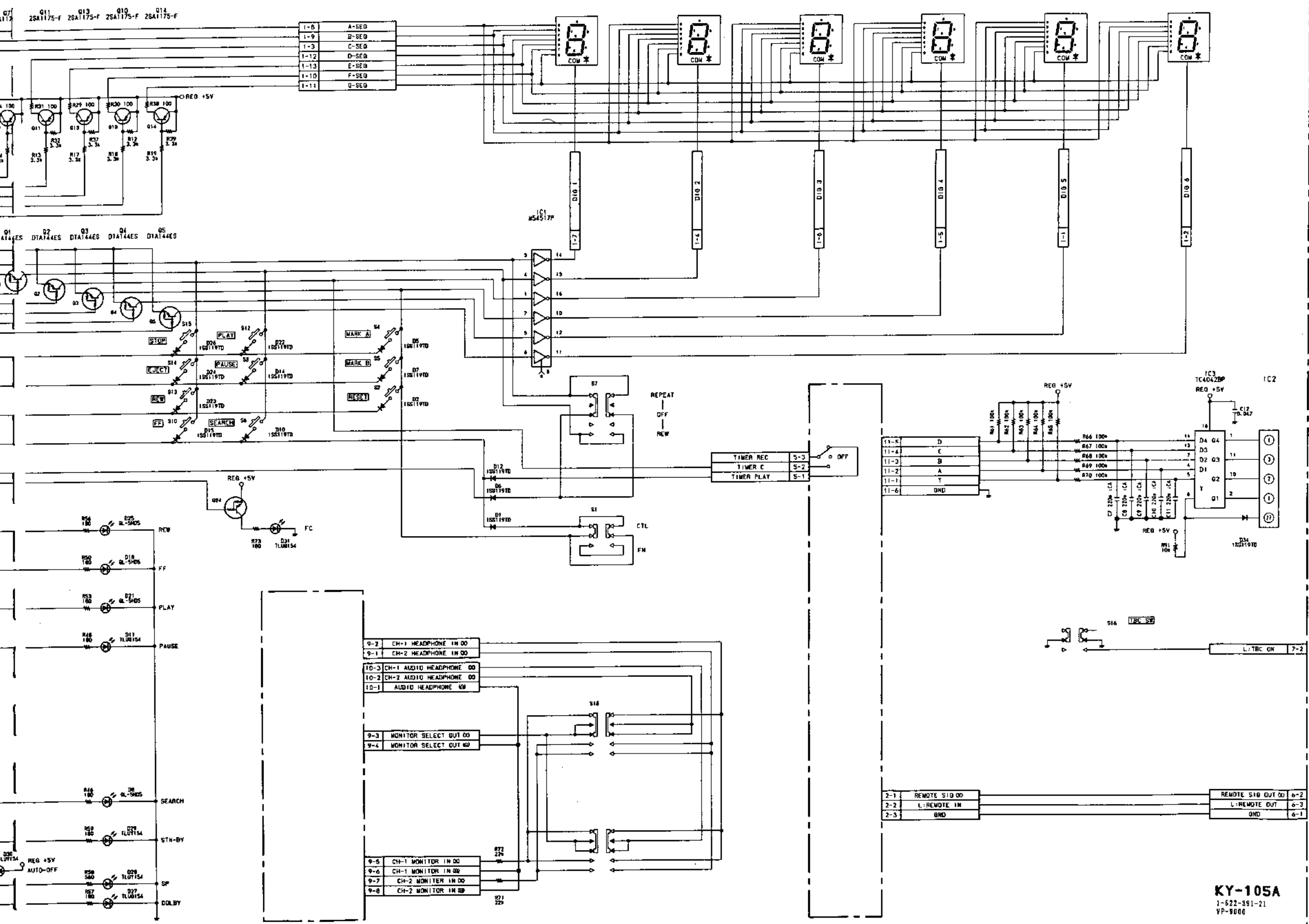
SV-93A
1-522-386-23
VP-9008

KY-105A:FUNCTION KEY/DISPLAY

UC; S/N 10001 thru 10250

J; S/N 10001 thru 10050





KY-105A: FUNCTION KEY/DISPLAY

UC; S/N 10001 thru 10250

J; S/N 10001 thru 10050

KY-105A (1-622-391-21)

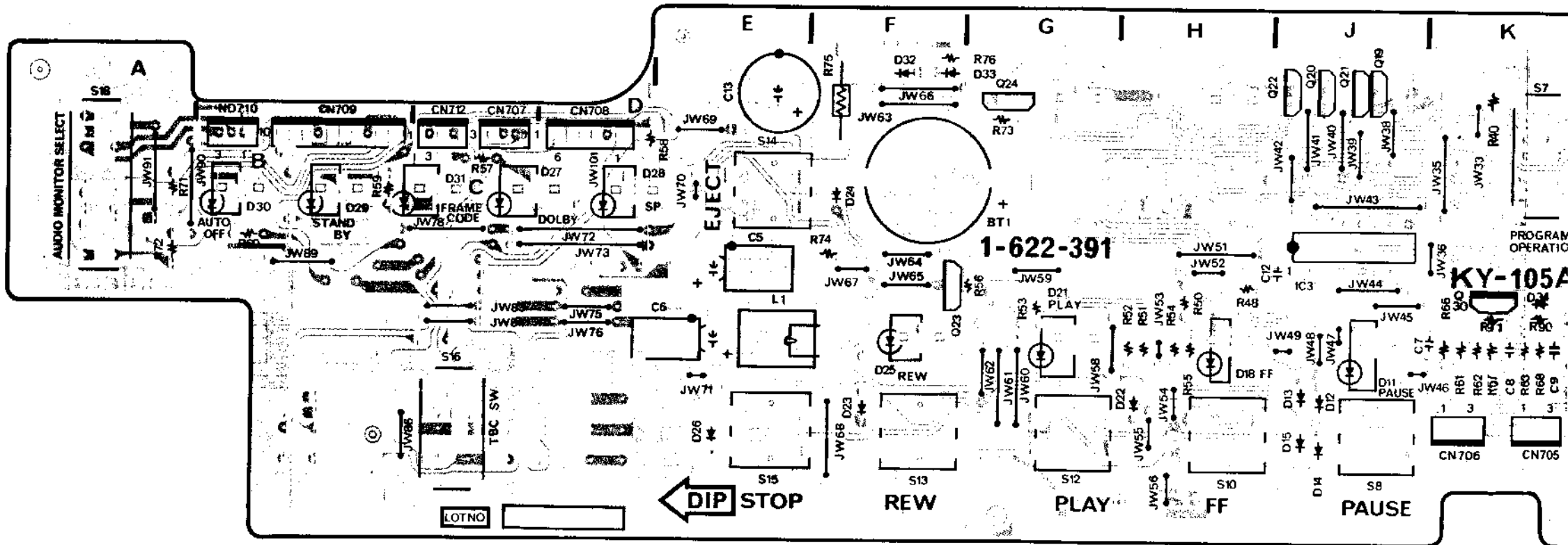
BT1	F-2	Q9	N-1
		Q10	M-1
CN702	R-3	Q11	M-1
CN703	P-3	Q13	N-1
CN704	N-3	Q14	N-1
CN705	K-3	Q16	L-2
CN706	K-3	Q19	J-1
CN707	C-1	Q20	J-1
CN708	D-1	Q21	J-1
CN709	B-1	Q22	J-1
CN710	B-1	Q23	F-2
CN711	M-3	Q24	G-1
CN712	C-1	Q30	K-2

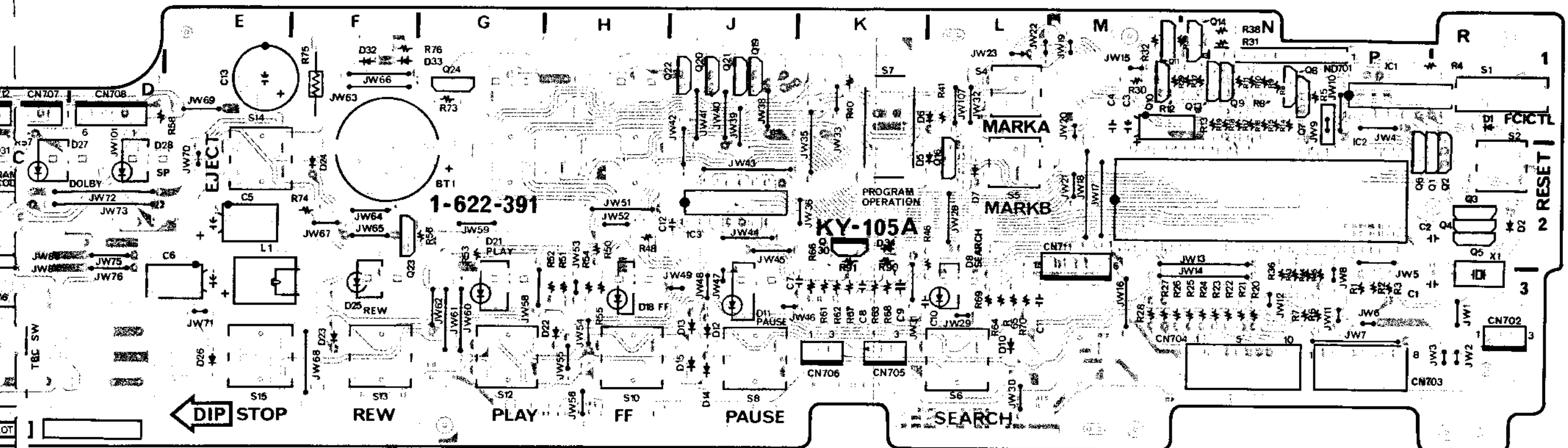
D1	R-1	S1	R-1
D2	R-2	S2	R-2
D5	L-2	S4	L-1
D6	L-1	S5	L-2
D7	L-2	S6	L-3
D8	L-3	S7	K-1
D10	L-3	S8	J-3
D11	J-3	S10	H-3
D12	J-3	S12	G-3
D13	J-3	S13	F-3
D14	J-3	S14	E-2
D15	J-3	S15	E-3
D18	H-3	S16	C-3
D21	G-3	S18	A-2
D22	H-3		
D23	F-3	SL1	P-2
D24	F-2	SL2	F-1
D25	F-3		
D26	E-3	X1	R-3
D27	C-2		
D28	D-2		
D29	B-2		
D30	B-2		
D31	B-2		
D32	F-1		
D33	F-1		
D34	K-2		

IC1	P-1
IC2	N-2
IC3	J-2

ND701 N-1

Q1	R-2
Q2	R-2
Q3	R-2
Q4	R-2
Q5	R-2
Q6	P-2
Q7	N-1
Q8	N-1

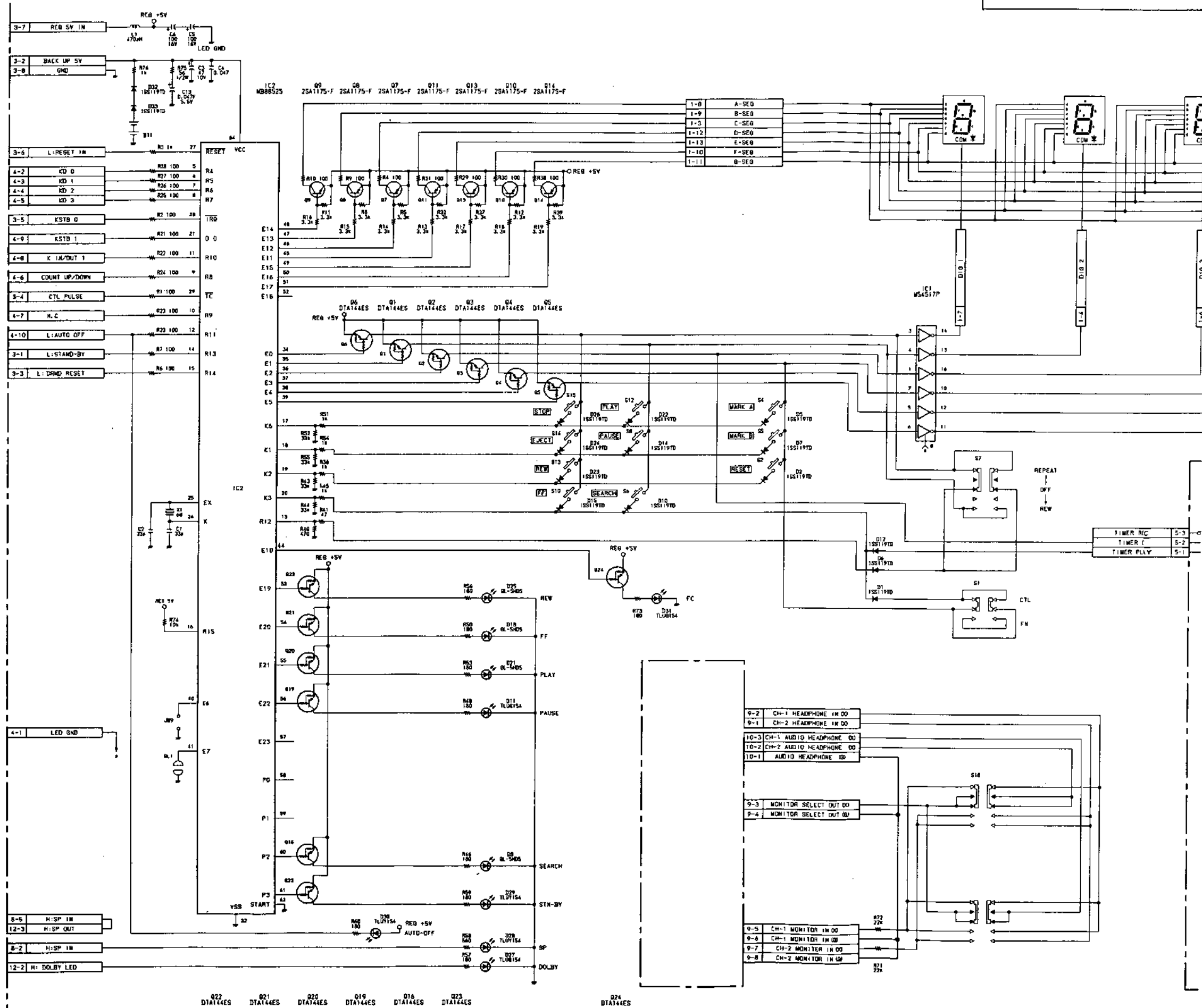


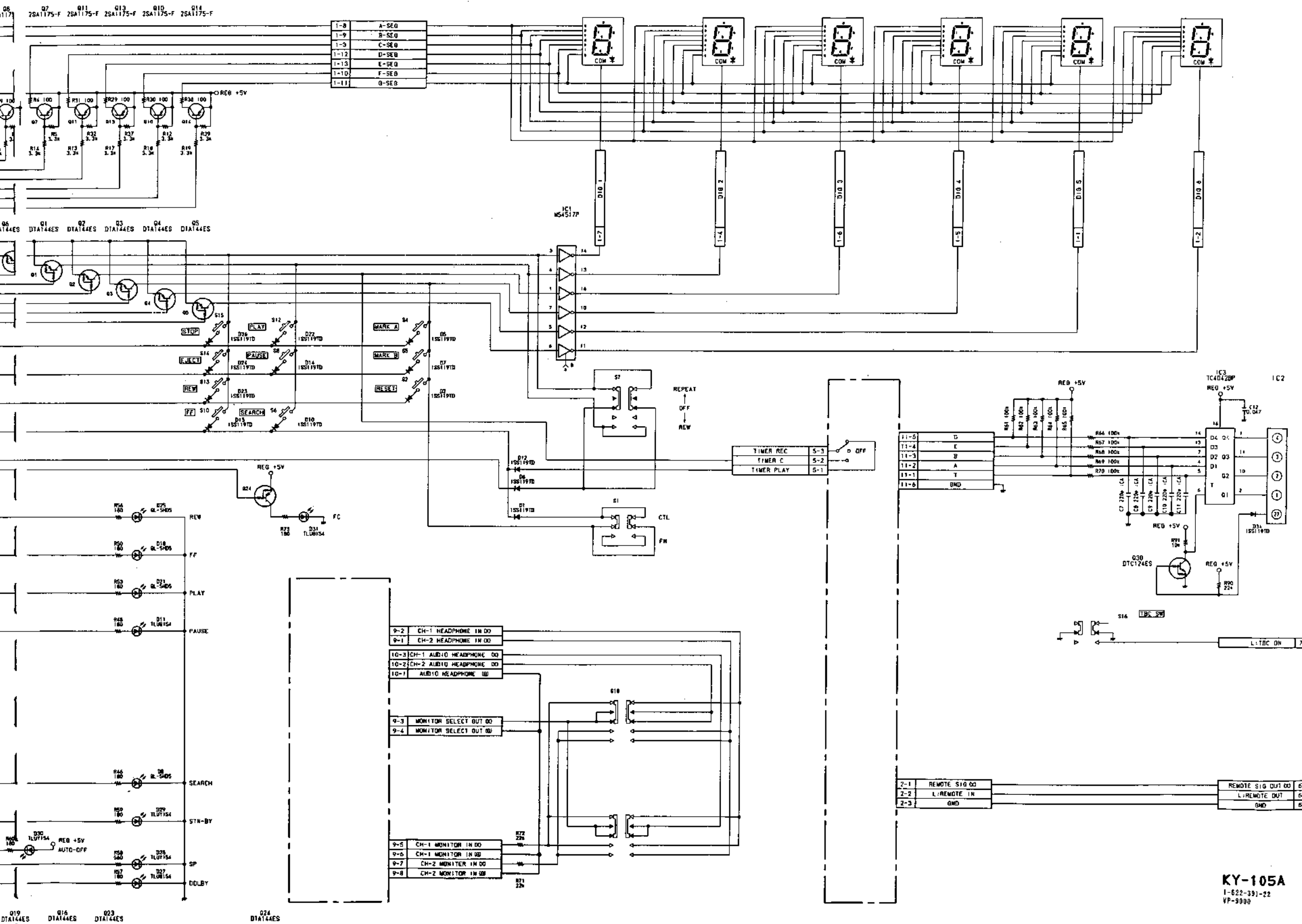


KY-105A
 -COMPONENT SIDE-
 1-622-391-21
 VP-9000

KY-105A:FUNCTION KEY/DISPLAY

UC; S/N 10251 thru 10850
J; S/N 10051 thru 10150





KY-105A
1-622-391-22
VP-8000

KY-105A: FUNCTION KEY/DISPLAY

UC; S/N 10001 thru 10850

J; S/N 10001 thru 10150

KY-105A (1-622-391-22)

BT1	F-2	Q9	N-1
		Q10	M-1
CN702	R-3	Q11	M-1
CN703	P-3	Q13	N-1
CN704	N-3	Q14	N-1
CN705	K-3	Q16	L-2
CN706	K-3	Q19	J-1
CN707	C-1	Q20	J-1
CN708	D-1	Q21	J-1
CN709	B-1	Q22	J-1
CN710	B-1	Q23	F-2
CN711	M-3	Q24	G-1
CN712	C-1	Q30	K-2

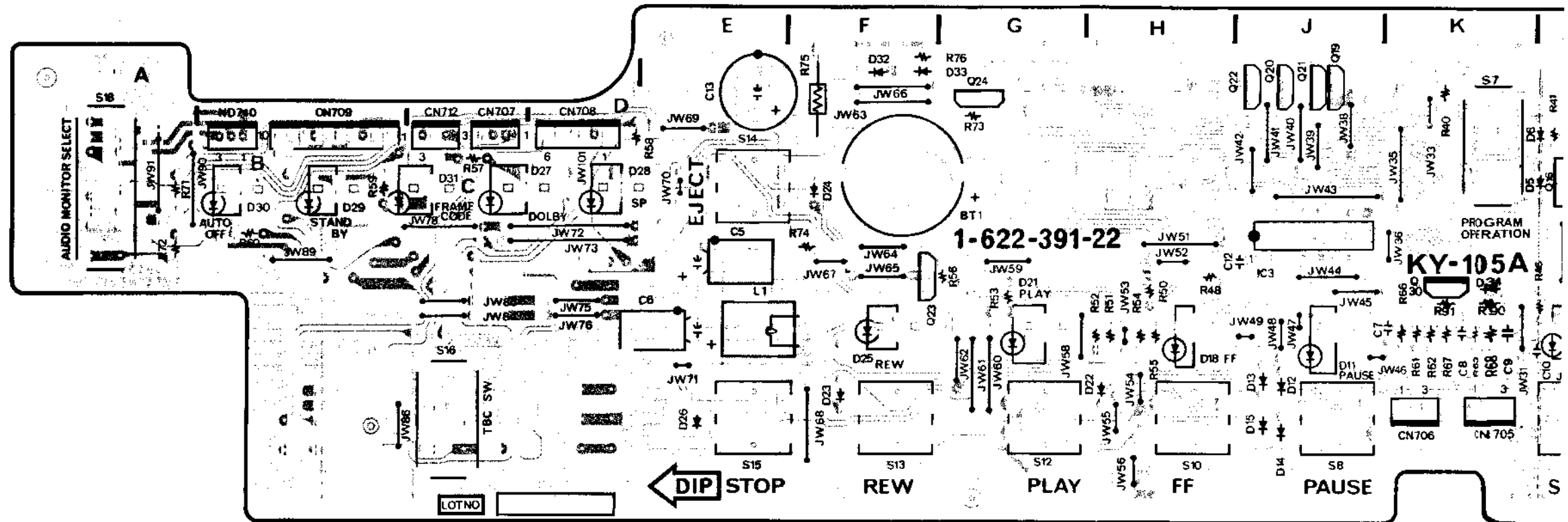
D1	R-1	S1	R-1
D2	R-2	S2	R-2
D5	L-2	S4	L-1
D6	L-1	S5	L-2
D7	L-2	S6	L-3
D8	L-3	S7	K-1
D10	L-3	S8	J-3
D11	J-3	S10	H-3
D12	J-3	S12	G-3
D13	J-3	S13	F-3
D14	J-3	S14	E-2
D15	J-3	S15	E-3
D18	H-3	S16	C-3
D21	G-3	S18	A-2
D22	H-3		

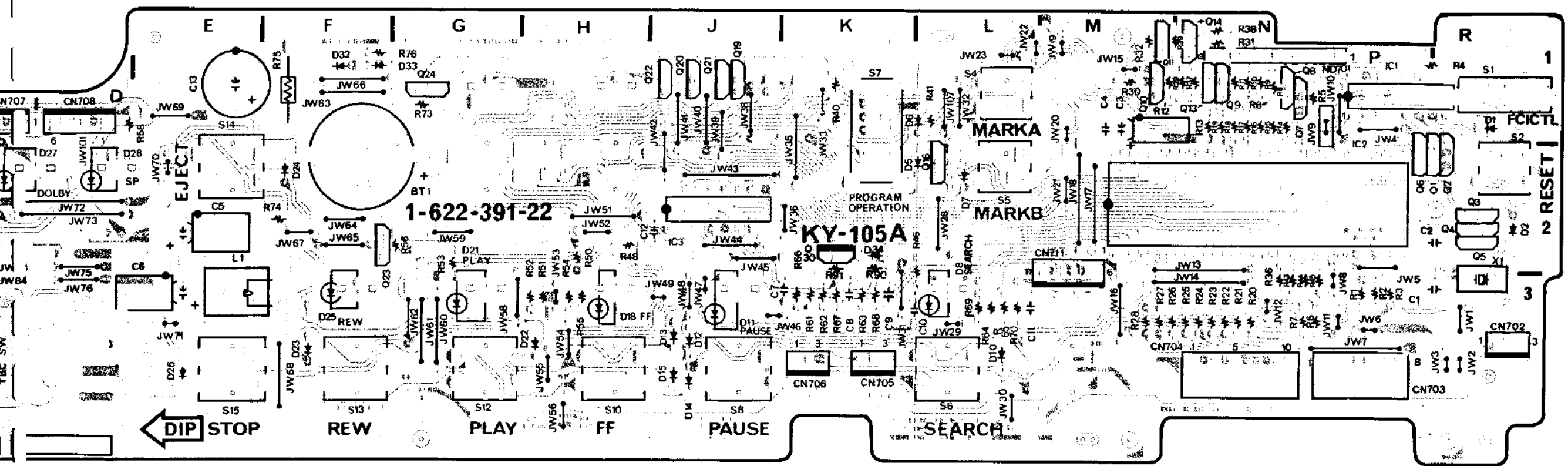
D23	F-3	SL1	P-2
D24	F-2	SL2	F-1
D25	F-3		
D26	E-3	X1	R-3
D27	C-2		
D28	D-2		
D29	B-2		
D30	B-2		
D31	B-2		
D32	F-1		
D33	F-1		
D34	K-2		

IC1	P-1		
IC2	N-2		
IC3	J-2		

ND701	N-1		
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Q1	R-2		
Q2	R-2		
Q3	R-2		
Q4	R-2		
Q5	R-2		
Q6	P-2		
Q7	N-1		
Q8	N-1		

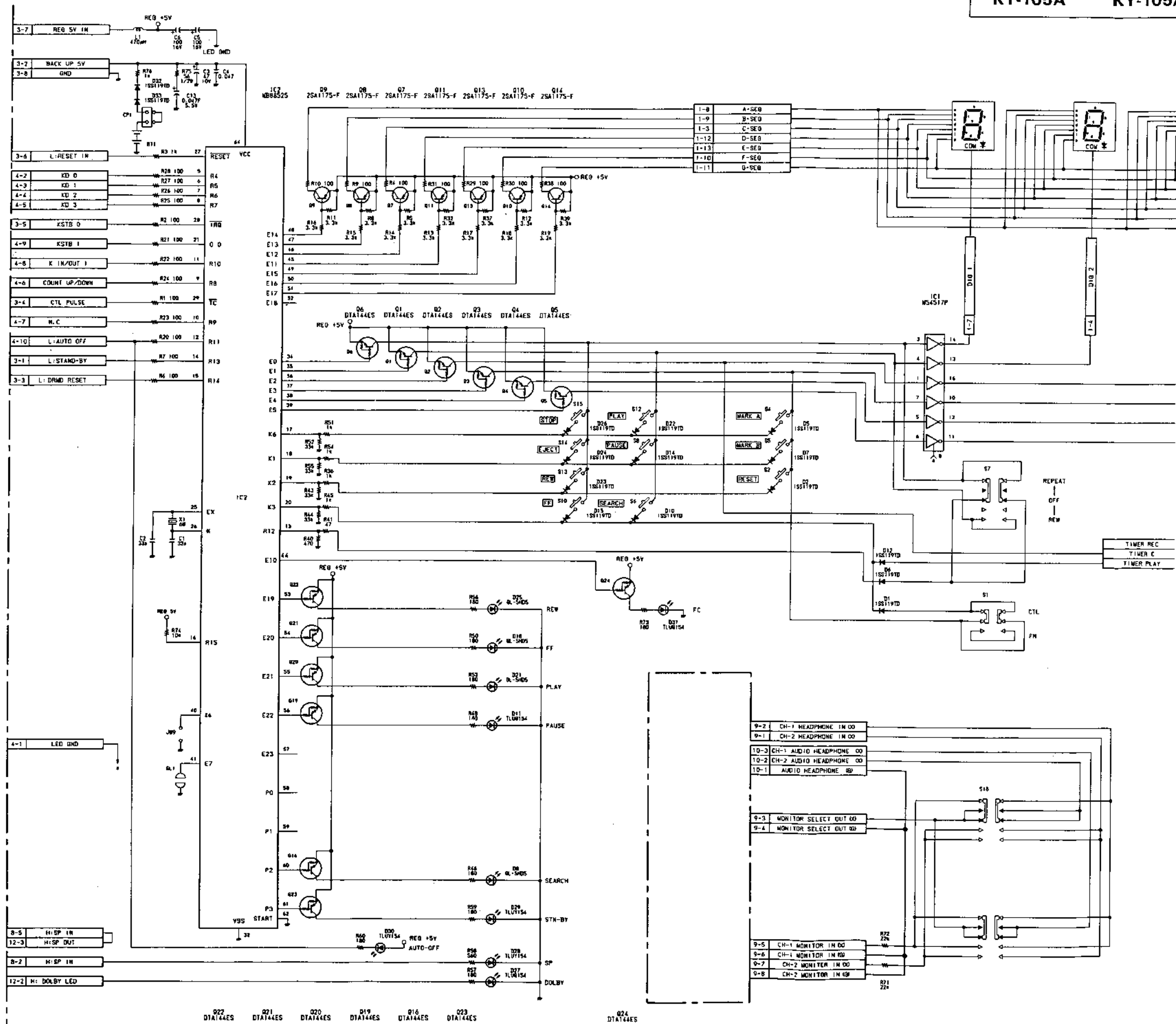




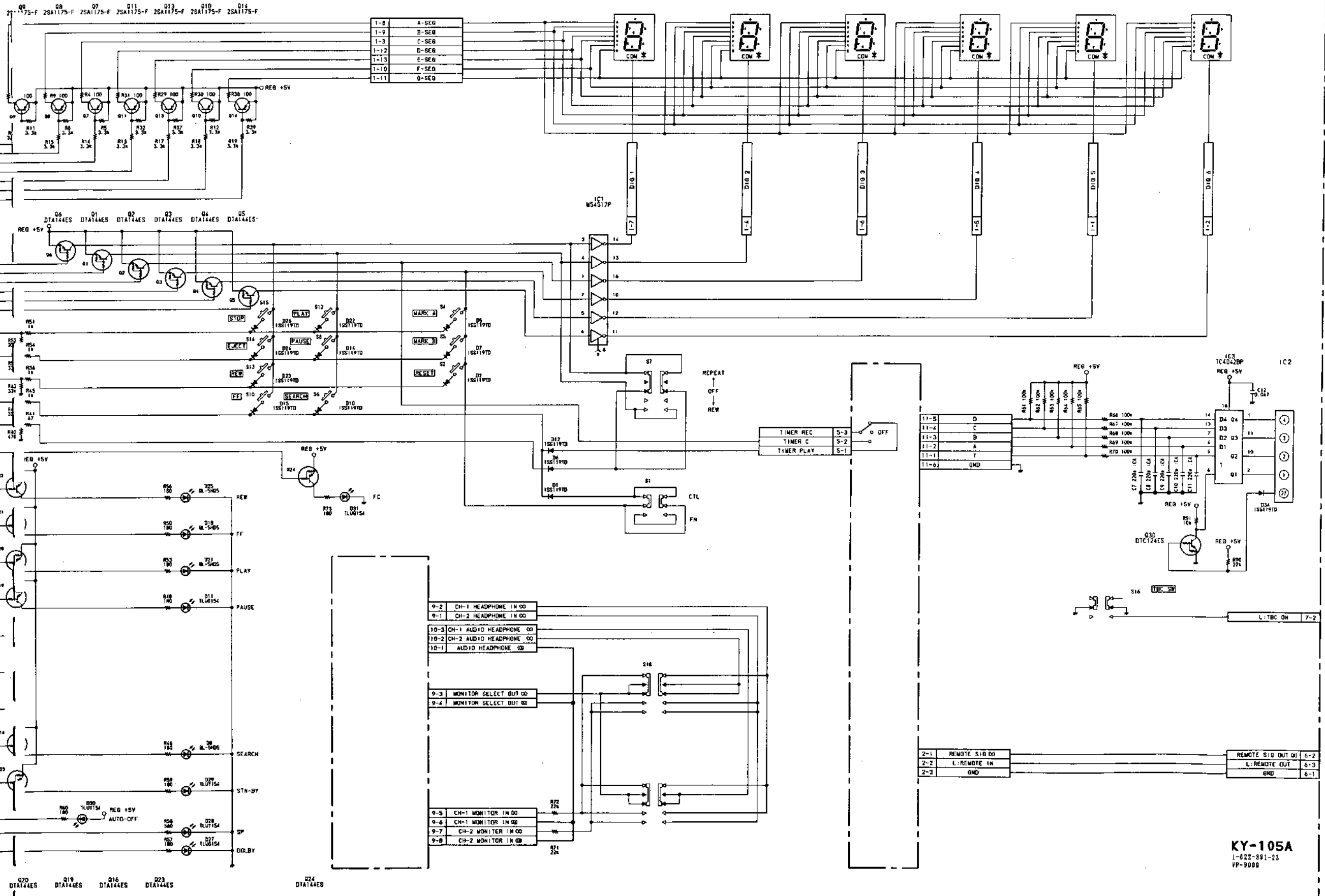
KY-105A
 -COMPONENT SIDE-
 1-622-391-22
 YF-9000

KY-105A:FUNCTION KEY/DISPLAY

UC: S/N 10851 thru 11250



KY-105A KY-105A



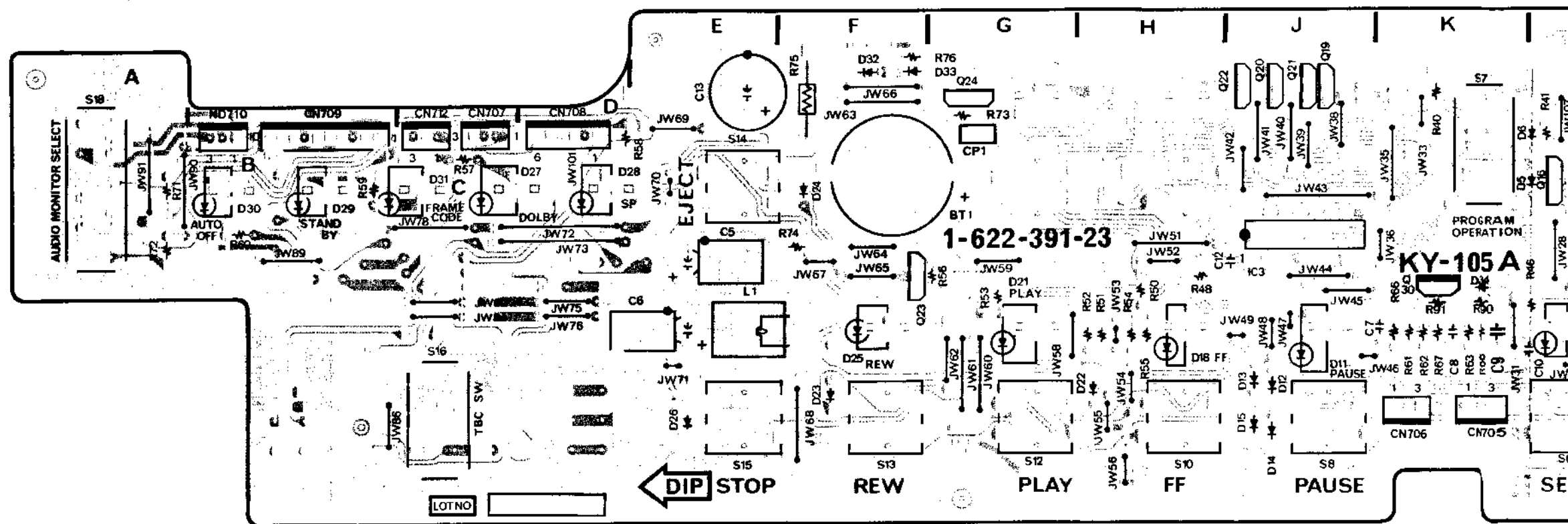
KY-105A
1-622-891-23
VP-9008

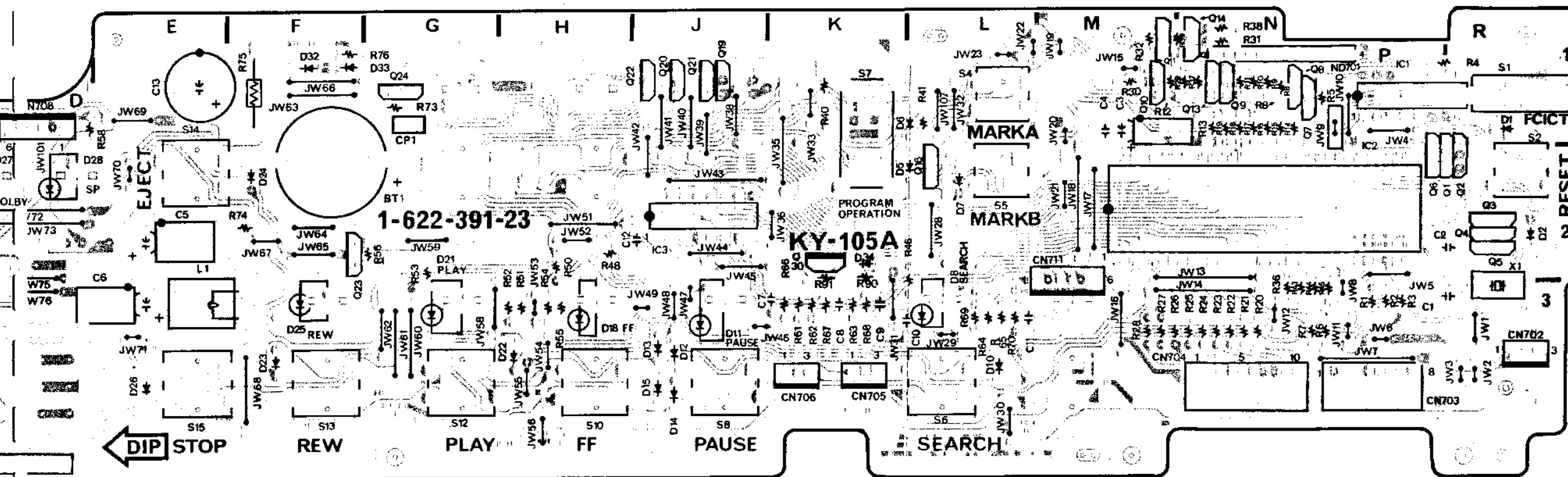
KY-105A: FUNCTION KEY/DISPLAY

UC: S/N 10851 thru 11250

KY-105A (1-622-391-23)

BT1	F-2	Q8	N-1
		Q9	N-1
CN702	R-3	Q10	M-1
CN703	P-3	Q11	M-1
CN704	N-3	Q13	N-1
CN705	K-3	Q14	N-1
CN706	K-3	Q16	L-2
CN707	C-1	Q19	J-1
CN708	D-1	Q20	J-1
CN709	B-1	Q21	J-1
CN711	M-3	Q22	J-1
CN712	C-1	Q23	F-2
		Q24	G-1
CP1	G-1	Q30	K-2
D1	R-1	S1	R-1
D2	R-2	S2	R-2
D5	L-2	S4	L-1
D6	L-1	S5	L-2
D7	L-2	S6	L-3
D8	L-3	S7	K-1
D10	L-3	S8	J-3
D11	J-3	S10	H-3
D12	J-3	S12	G-3
D13	J-3	S13	F-3
D14	J-3	S14	E-2
D15	J-3	S15	E-3
D18	H-3	S16	C-3
D21	G-3	S18	A-2
D22	H-3		
D23	F-3	X1	R-3
D24	F-2		
D25	F-3		
D26	E-3		
D27	C-2		
D28	D-2		
D29	B-2		
D30	B-2		
D31	B-2		
D32	F-1		
D33	F-1		
D34	K-2		
IC1	P-1		
IC2	N-2		
IC3	J-2		
ND701	N-1		
Q1	R-2		
Q2	R-2		
Q3	R-2		
Q4	R-2		
Q5	R-2		
Q6	P-2		
Q7	N-1		

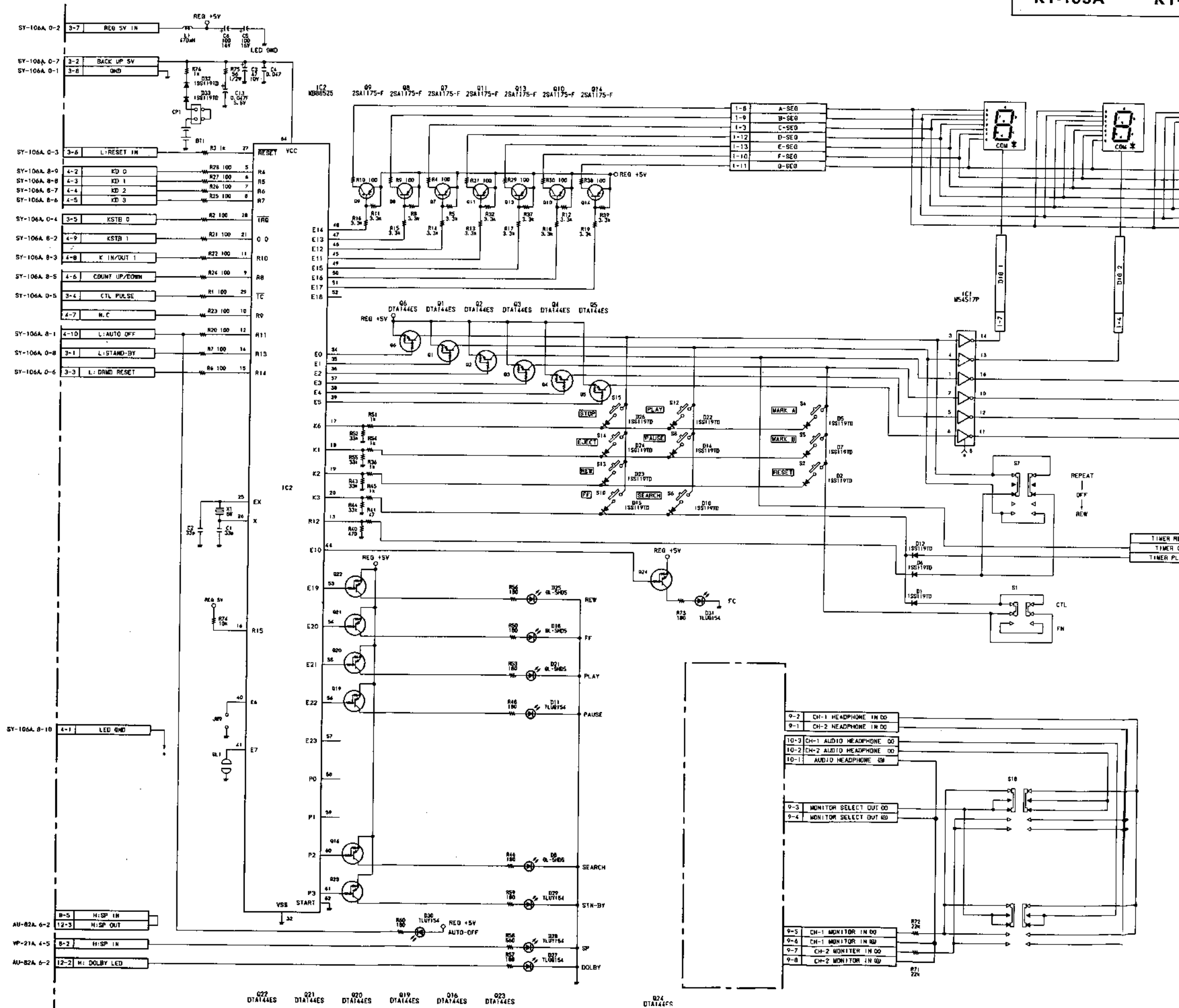




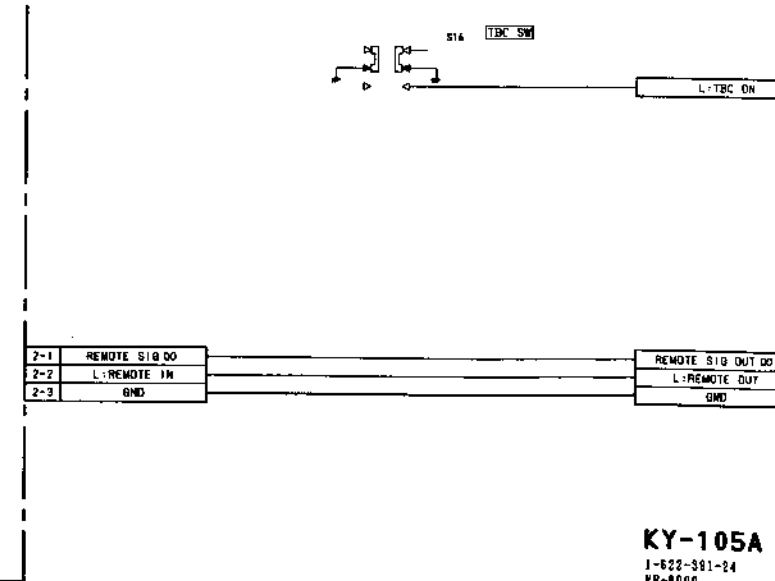
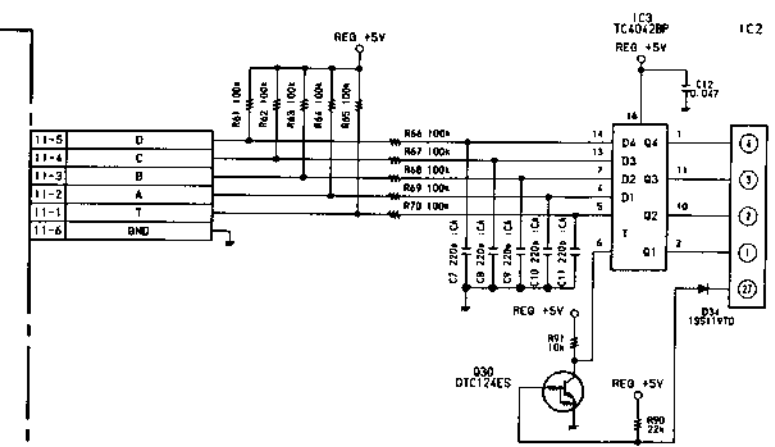
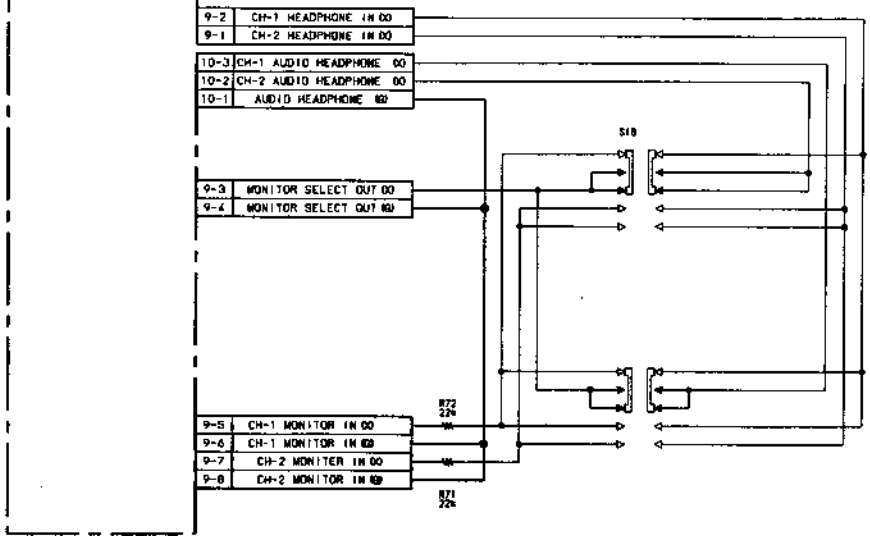
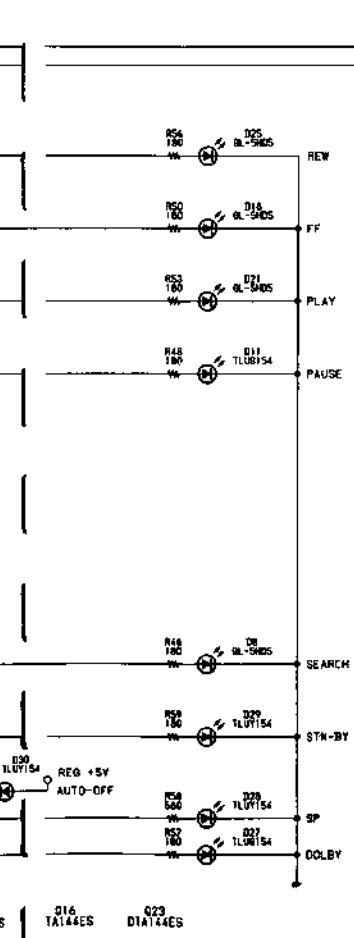
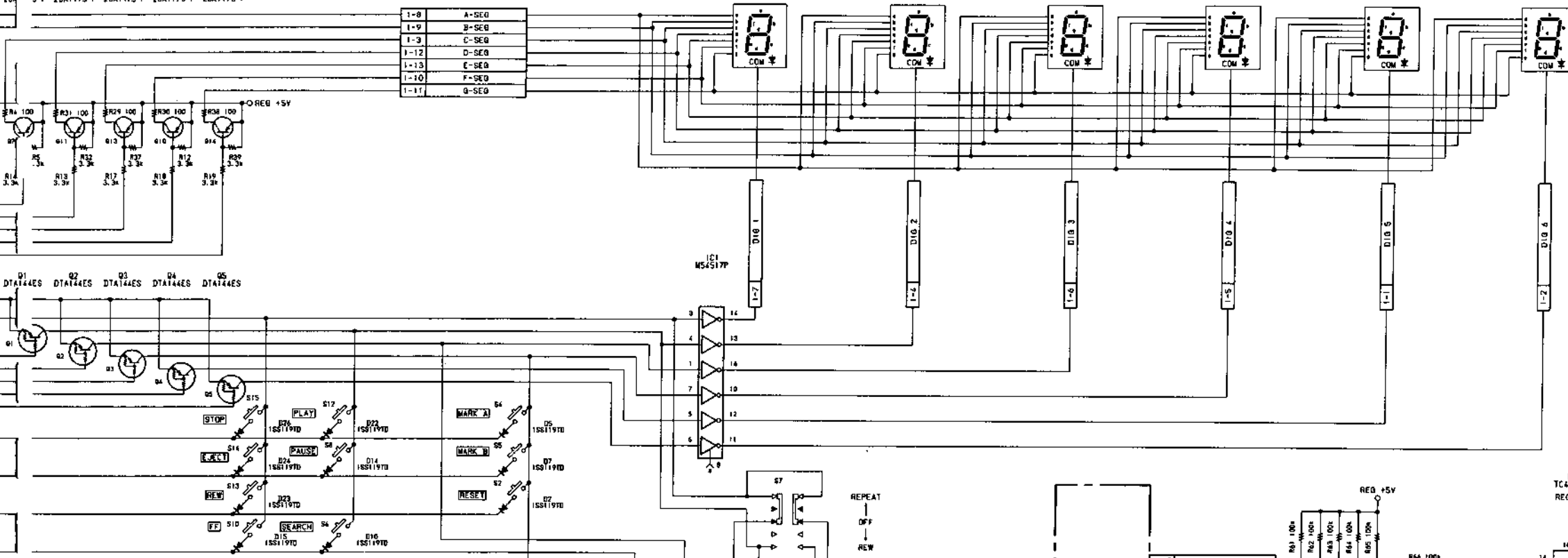
KY-105A
 -COMPONENT SIDE-
 1-622-391-23
 VP-5000

KY-105A:FUNCTION KEY/DISPLAY

UC; S/N 11251 and higher
J; S/N 10151 and higher



Q11 Q13 Q10 Q14
S-F 2SA1175-F 2SA1175-F 2SA1175-F 2SA1175-F



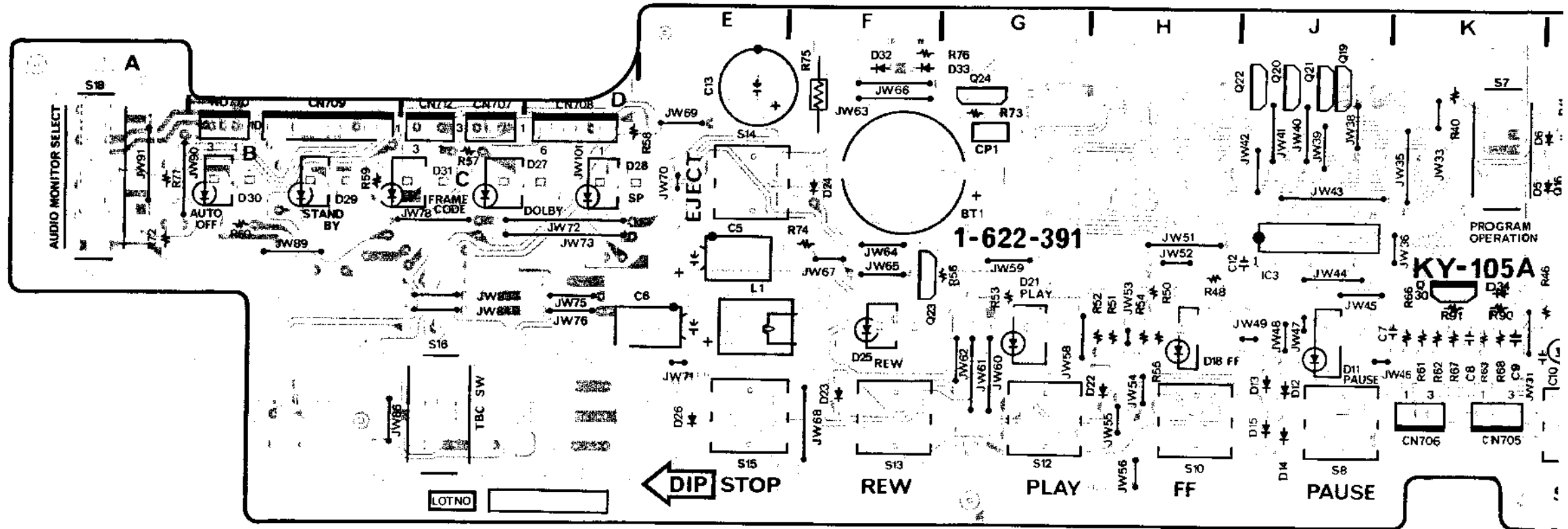
KY-105A:FUNCTION KEY/DISPLAY

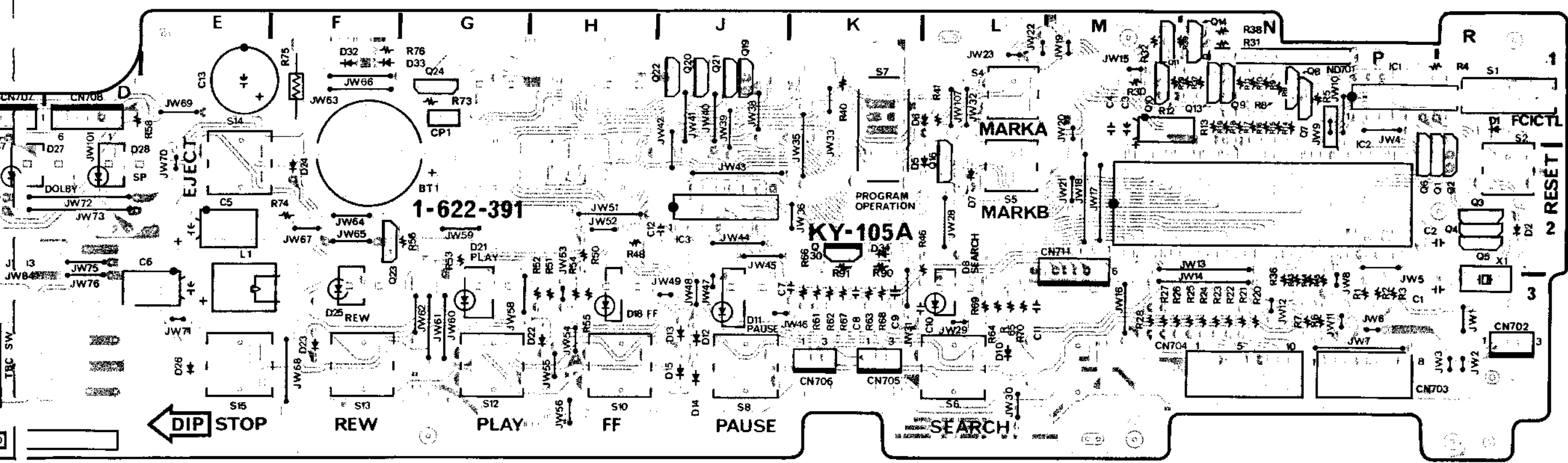
UC; S/N 11251 and higher

J; S/N 10151 and higher

KY-105A (1-622-391-24)

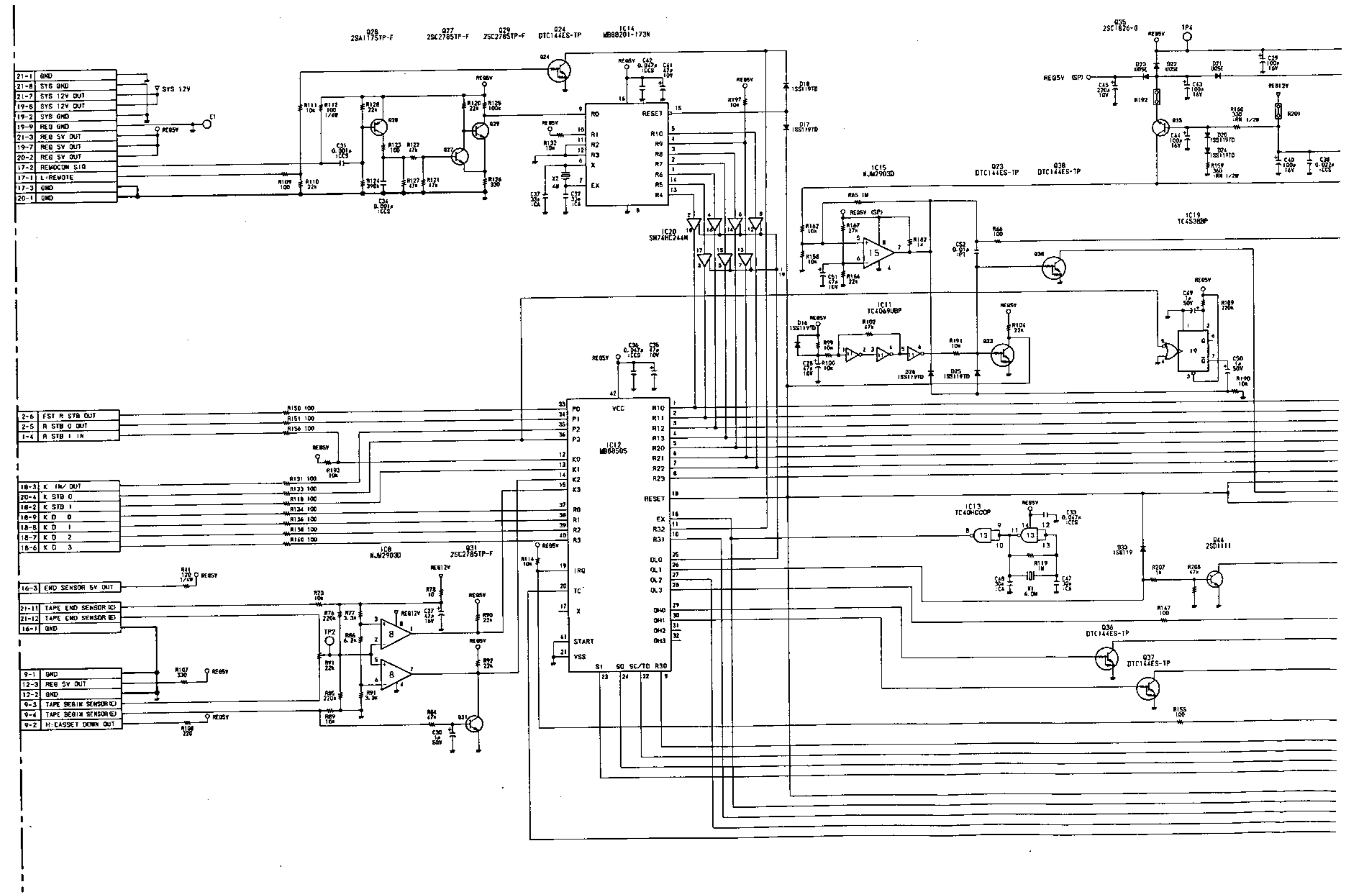
BT1	F-2	Q8	N-1
		Q9	N-1
CN702	R-3	Q10	M-1
CN703	P-3	Q11	M-1
CN704	N-3	Q13	N-1
CN705	K-3	Q14	N-1
CN706	K-3	Q16	L-2
CN707	C-1	Q19	J-1
CN708	D-1	Q20	J-1
CN709	B-1	Q21	J-1
CN711	M-3	Q22	J-1
CN712	C-1	Q23	F-2
		Q24	G-1
		Q30	K-2
CP1	G-1		
D1	R-1	S1	R-1
D2	R-2	S2	R-2
D5	L-2	S4	L-1
D6	L-1	S5	L-2
D7	L-2	S6	L-3
D8	L-3	S7	K-1
D10	L-3	S8	J-3
D11	J-3	S10	H-3
D12	J-3	S12	G-3
D13	J-3	S13	F-3
D14	J-3	S14	E-2
D15	J-3	S15	E-3
D18	H-3	S16	C-3
D21	G-3	S18	A-2
D22	H-3		
D23	F-3	X1	R-3
D24	F-2		
D25	F-3		
D26	E-3		
D27	C-2		
D28	D-2		
D29	B-2		
D30	B-2		
D31	B-2		
D32	F-1		
D33	F-1		
D34	K-2		
IC1	P-1		
IC2	N-2		
IC3	J-2		
ND701	N-1		
Q1	R-2		
Q2	R-2		
Q3	R-2		
Q4	R-2		
Q5	R-2		
Q6	P-2		
Q7	N-1		

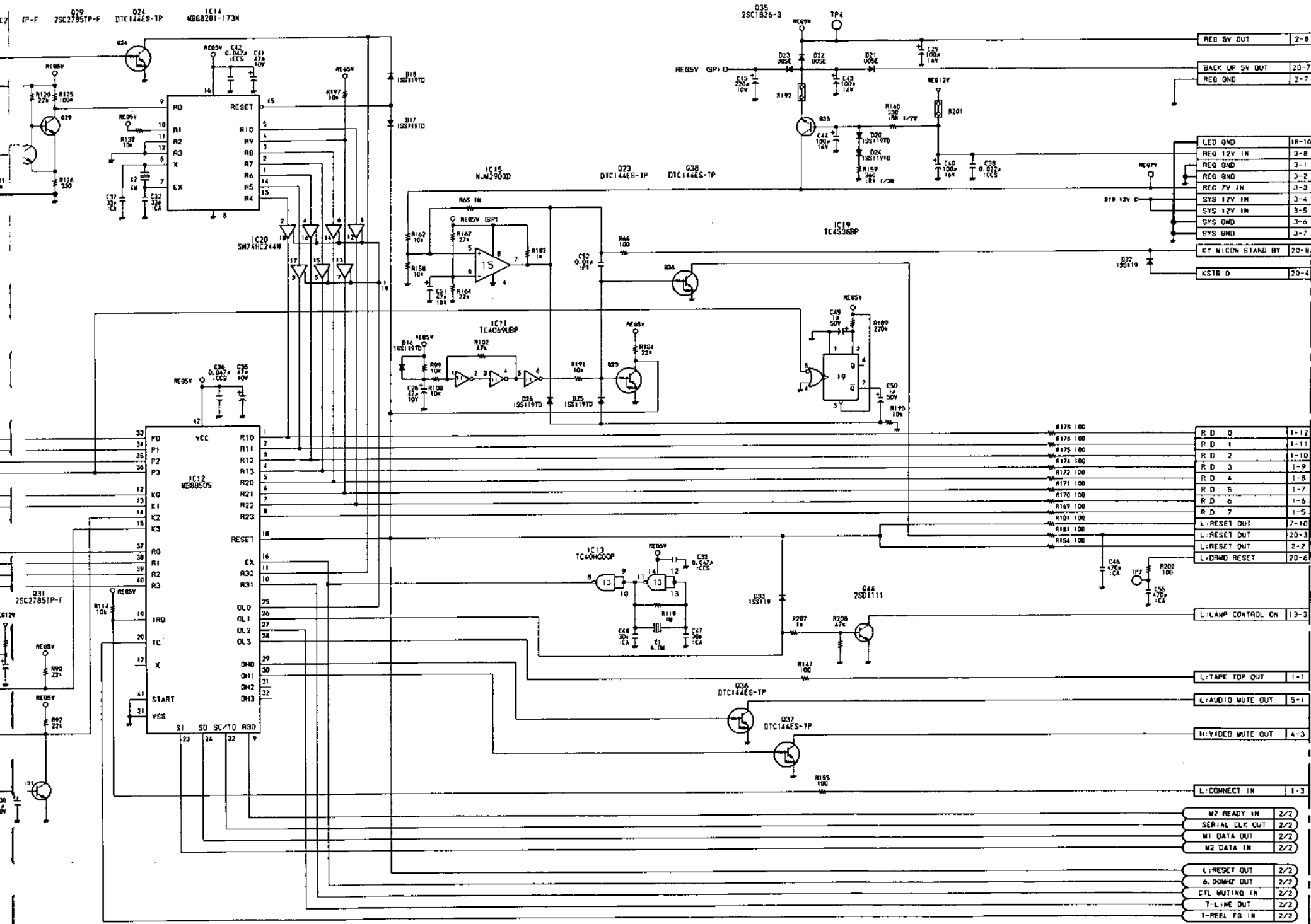




KY-105A
 -COMPONENT SIDE-
 1-622-391-24
 VF-9000

SY-106A(1/2): SYSTEM CONTROL
UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050



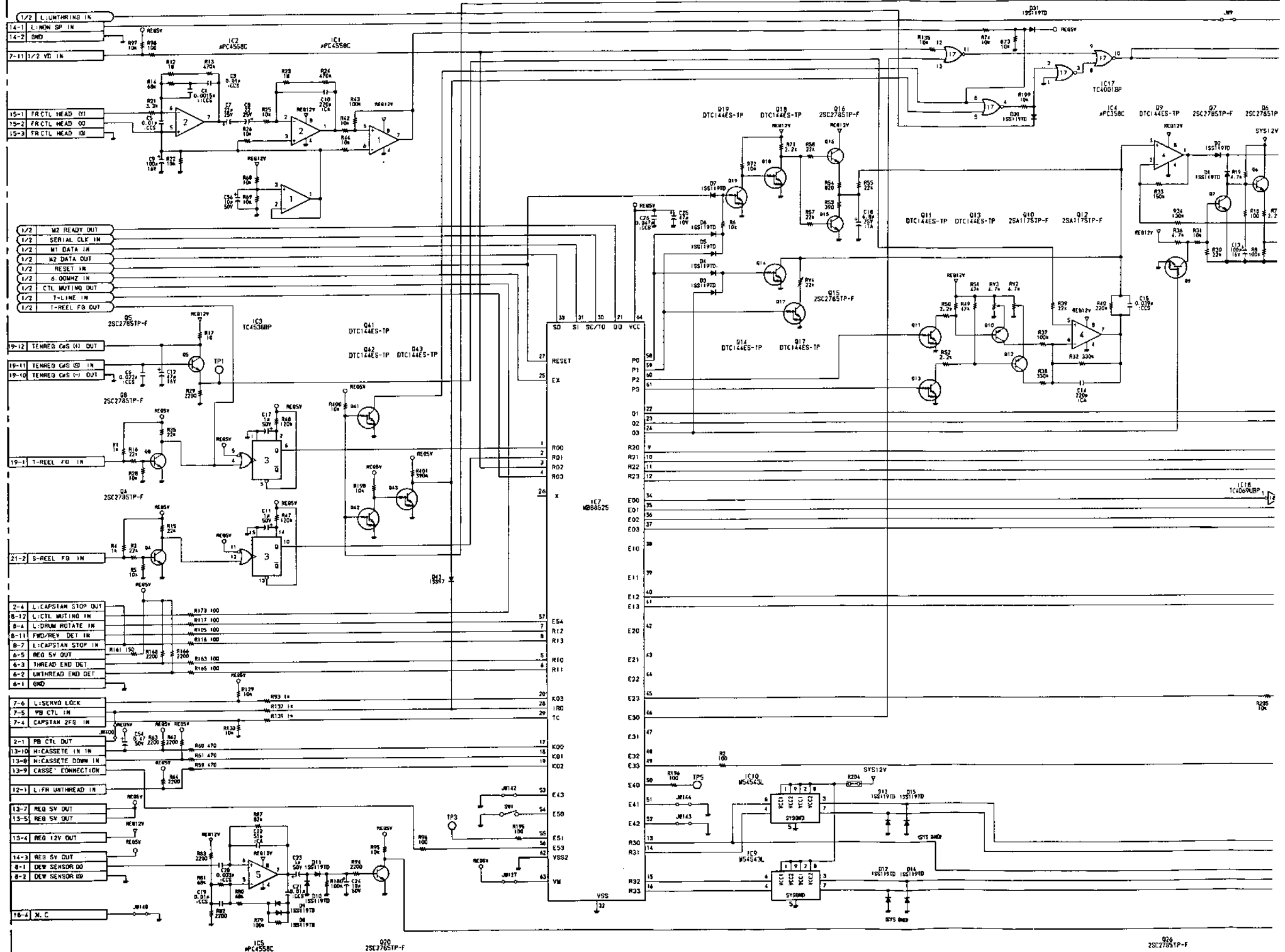


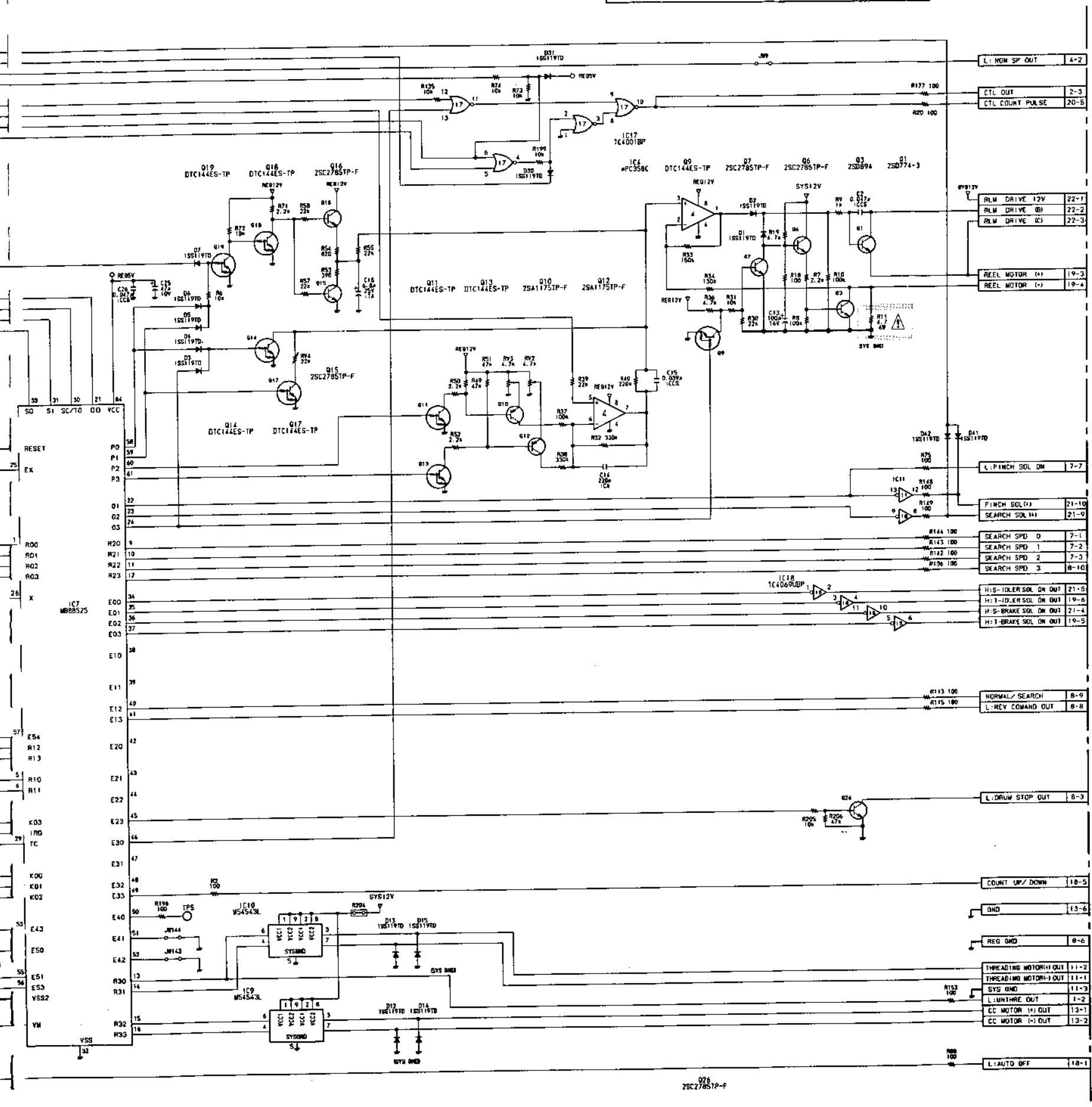
REG SV OUT	2-8
BACK UP SV OUT	20-7
REG GND	2-7
LED GND	18-10
REQ 12V IN	3-8
REQ GND	3-1
REQ 5V IN	3-2
REQ 7V IN	3-3
SYS 12V IN	3-4
SYS 12V IN	3-5
SYS GND	3-6
SYS GND	3-7
KT WICDN STAND BY	20-8
KSTB 0	20-4
R D 0	1-12
R D 1	1-11
R D 2	1-10
R D 3	1-9
R D 4	1-8
R D 5	1-7
R D 6	1-6
R D 7	1-5
L:RESET OUT	7-10
L:RESET OUT	20-3
L:RESET OUT	2-2
L:DRMD RESET	20-6
L:LAMP CONTROL DN	13-3
L:TAPE TOP OUT	1-1
L:AUDIO MUTE OUT	5-1
H:VIDEO MUTE OUT	4-3
L:CONNECT IN	1-3
M2 READY IN	2/2
SERIAL CLK OUT	2/2
M1 DATA OUT	2/2
M2 DATA IN	2/2
L:RESET OUT	2/2
6. DOWNZ OUT	2/2
CTL MUTING IN	2/2
T-LINE OUT	2/2
T-REEL FG IN	2/2

SY-106A (1/2)
1-622-389-21
VP-9000

SY-106A(2/2): SYSTEM CONTROL

UC: S/N 10001 thru 10250
J: S/N 10001 thru 10050





L: NOM SP OUT	4-2
CTL OUT	2-3
CTL COUNT PULSE	20-5
RLM DRIVE 12V	22-1
RLM DRIVE (B)	22-2
RLM DRIVE (C)	22-3
REEL MOTOR (+)	19-3
REEL MOTOR (-)	19-4
L: PINCH SOL DN	7-7
PINCH SOL (A)	21-10
SEARCH SOL (A)	21-9
SEARCH SPD 0	7-1
SEARCH SPD 1	7-2
SEARCH SPD 2	7-3
SEARCH SPD 3	8-10
H:S-LOLER SOL DN OUT	21-5
H:S-LOLER SOL DN OUT	19-6
H:S-BRAKE SOL DN OUT	21-4
H:S-BRAKE SOL DN OUT	19-5
NORMAL/SEARCH	8-9
L:REV COMMAND OUT	8-8
L:DRUM STOP OUT	8-3
COUNT UP/DOWN	18-5
END	13-6
REQ GND	8-6
THREADING MOTOR(+) OUT	11-2
THREADING MOTOR(-) OUT	11-1
SYS GND	11-3
L:UNTHRE OUT	1-2
CC MOTOR (+) OUT	13-1
CC MOTOR (-) OUT	13-2
L:AUTO OFF	18-1

注意！：△印及び■で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE:
The shaded and △-marked components are critical to safety.
Replace only with same components as specified.

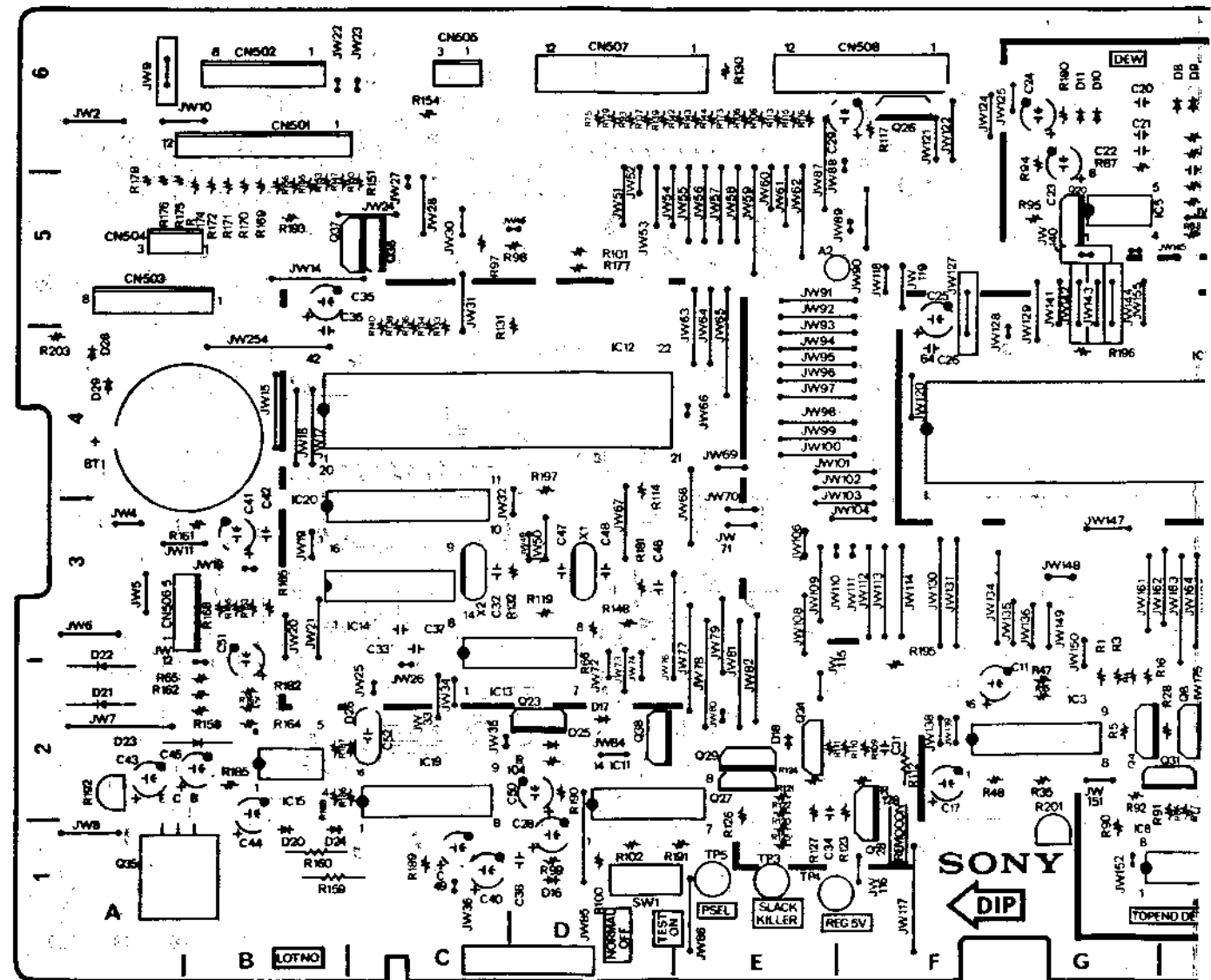
SY-106A (2/2)
1-622-369-21
VP-9900

SY-106A: SYSTEM CONTROL

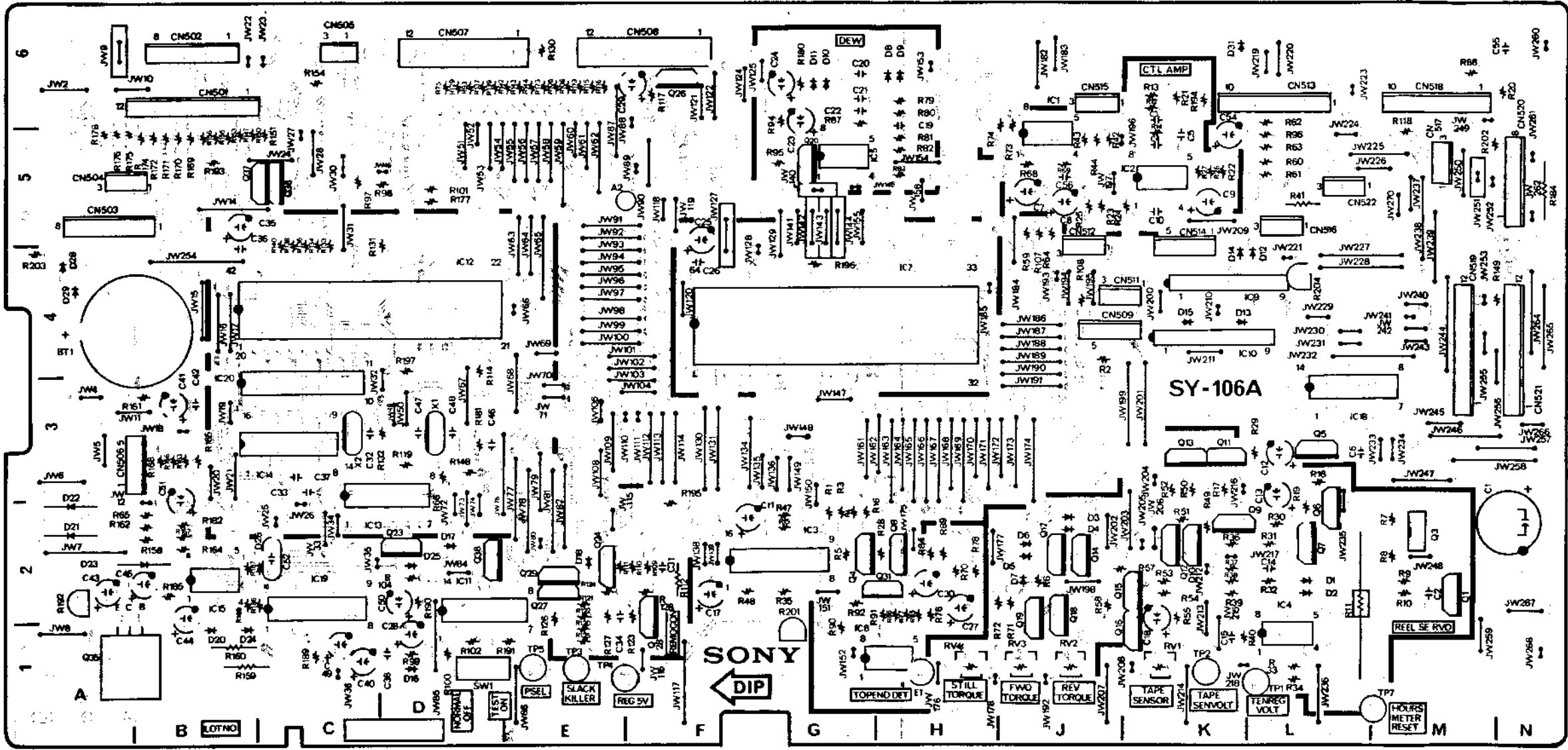
UC; S/N 10001 thru 10250
 J; S/N 10001 thru 10050

SY-106A (1-622-389-21)

CN501 B-1	IC3	G-5	RV4	H-6
CN502 B-1	IC4	L-6	SW1	D-6
CN503 A-2	IC5	G-2	TP1	L-6
CN504 A-2	IC7	G-3	TP2	K-6
CN505 C-1	IC8	H-6	TP3	E-6
CN506 B-4	IC9	K-3	TP4	F-6
CN507 D-1	IC10	K-3	TP5	E-6
CN508 E-1	IC11	D-5	TP7	M-6
CN509 J-3	IC12	C-3	X1	D-4
CN511 J-3	IC13	D-4	X2	C-4
CN512 J-3	IC14	C-4		
CN513 L-1	IC15	B-5		
CN514 K-3	IC17	H-1		
CN515 J-1	IC18	L-4		
CN516 L-2	IC19	C-5		
CN517 M-2	IC20	C-4		
CN518 M-1				
CN519 M-3	Q1	M-5		
CN520 N-2	Q3	M-5		
CN521 N-3	Q4	G-5		
CN522 L-2	Q5	L-4		
	Q6	L-5		
D1	L-5	Q7	L-5	
D2	L-6	Q8	H-5	
D3	J-5	Q9	K-5	
D4	J-6	Q10	K-5	
D5	J-5	Q11	K-4	
D6	J-5	Q12	K-5	
D7	J-5	Q13	K-4	
D8	H-1	Q14	J-5	
D9	H-1	Q15	K-5	
D10	G-1	Q16	K-6	
D11	G-1	Q17	J-5	
D12	L-3	Q18	J-5	
D13	K-3	Q19	J-5	
D14	K-3	Q20	G-2	
D15	K-3	Q23	D-5	
D16	D-6	Q24	E-5	
D17	D-5	Q26	F-1	
D18	E-5	Q27	E-5	
D20	B-6	Q28	F-5	
D21	A-5	Q29	E-5	
D22	A-5	Q31	H-5	
D23	B-5	Q35	A-6	
D24	B-6	Q36	C-2	
D25	D-5	Q37	C-2	
D26	C-5	Q38	D-5	
D31	K-1	Q41	F-6	
D32	N-2	Q42	F-5	
D33	E-3	Q43	F-5	
D43	E-4	Q44	B-3	
E1	H-6	RV1	K-6	
		RV2	J-6	
IC1	J-2	RV3	J-6	
IC2	K-2			



- V4 H-6
- V1 D-6
- TP1 L-6
- V2 K-6
- V3 E-6
- TP4 F-6
- TP5 E-6
- V7 M-6
- X1 D-4
- X2 C-4

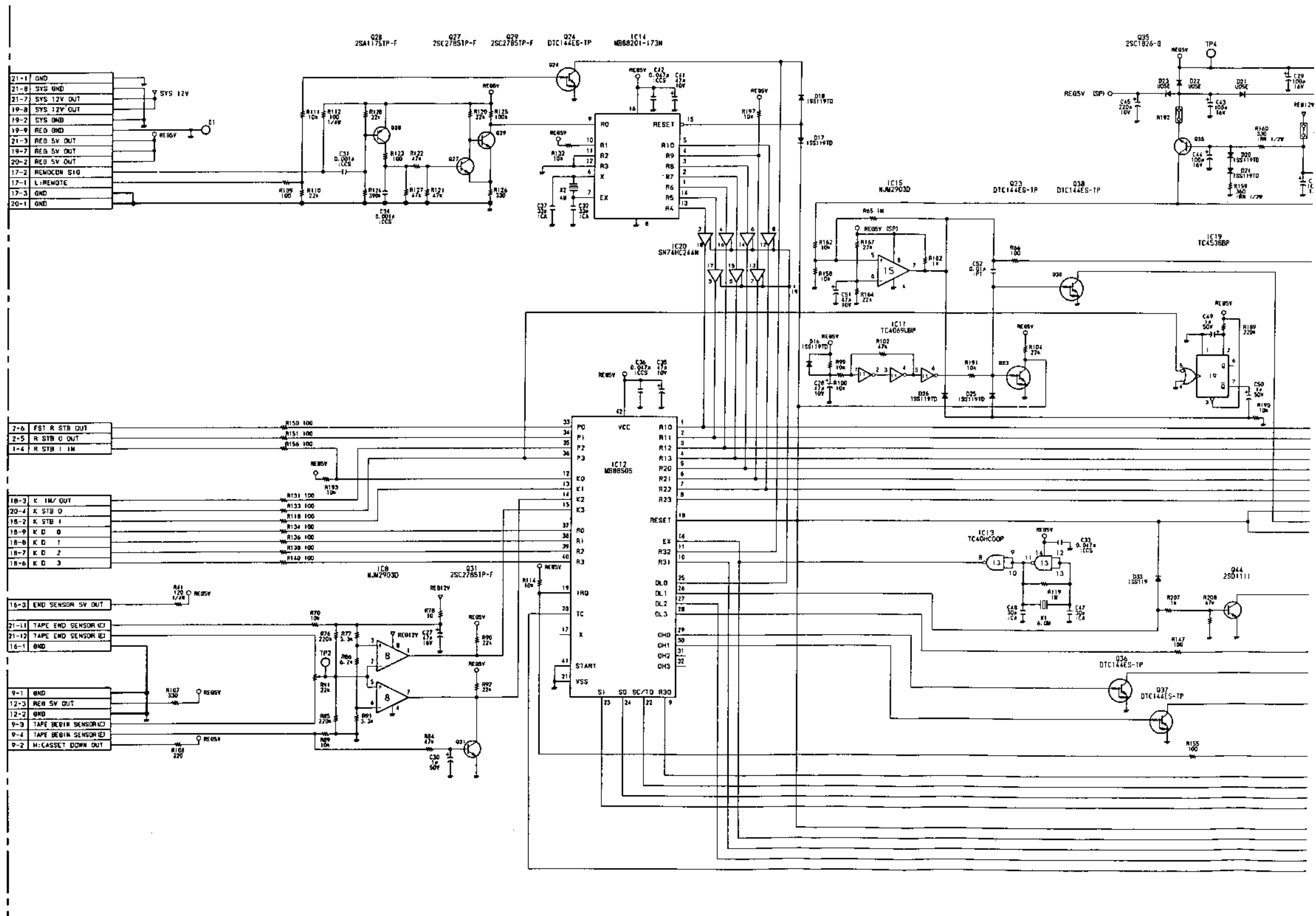


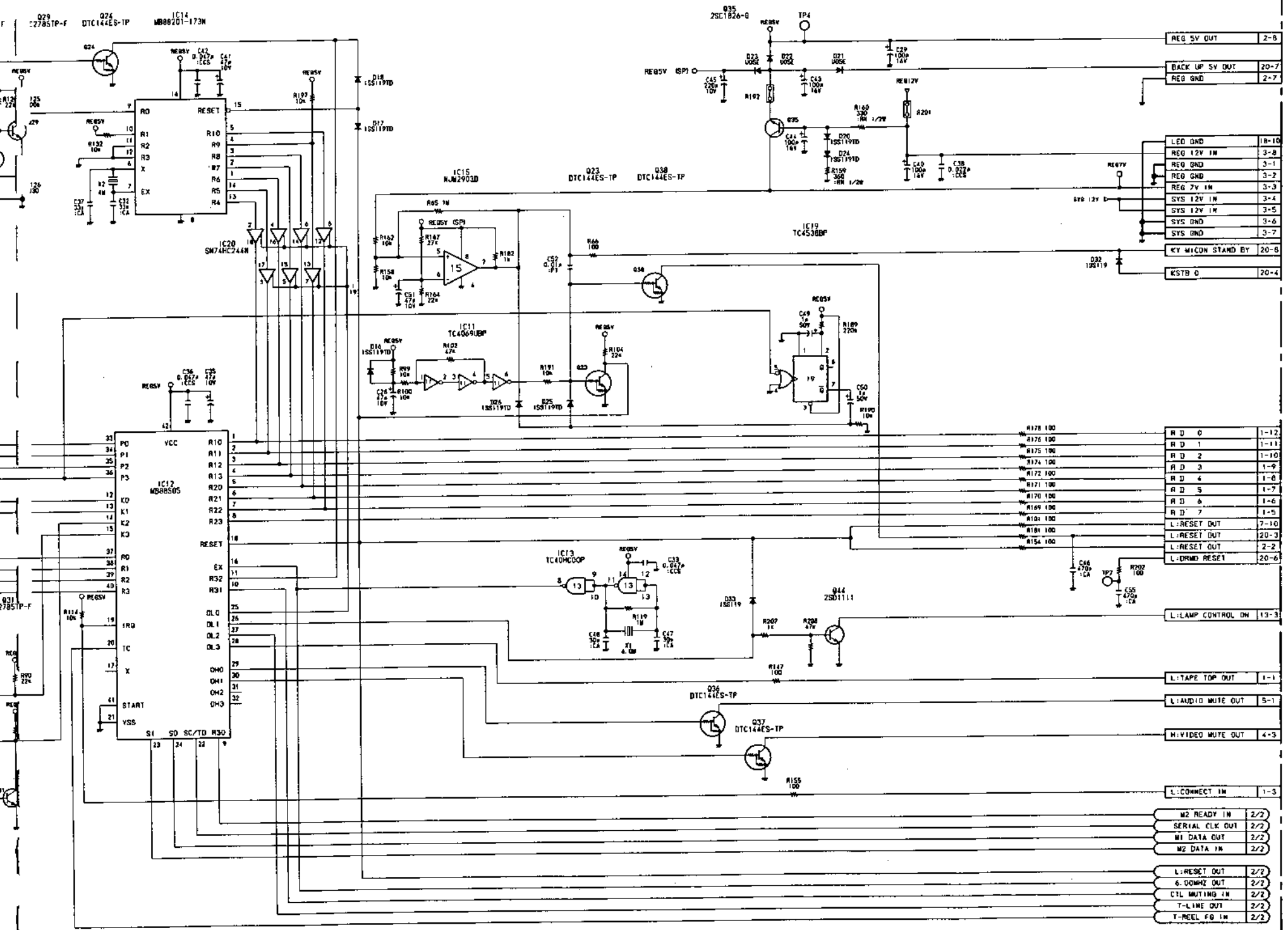
SY-106A
 -COMPONENT SIDE-
 1-622-389-21
 VP-9000

SY-106A(1/2): SYSTEM CONTROL

UC; S/N 10251 thru 11250

J; S/N 10051 thru 10150



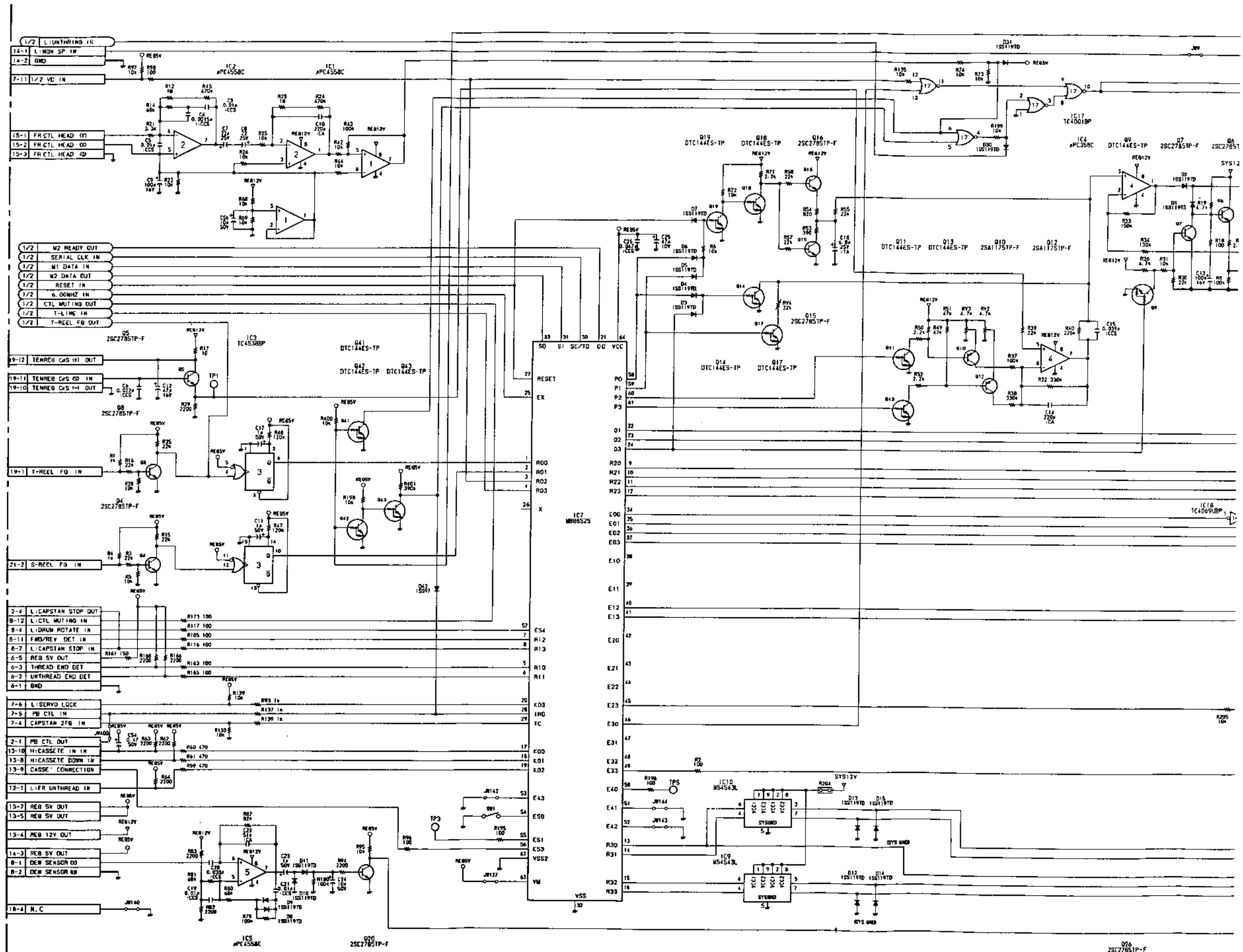


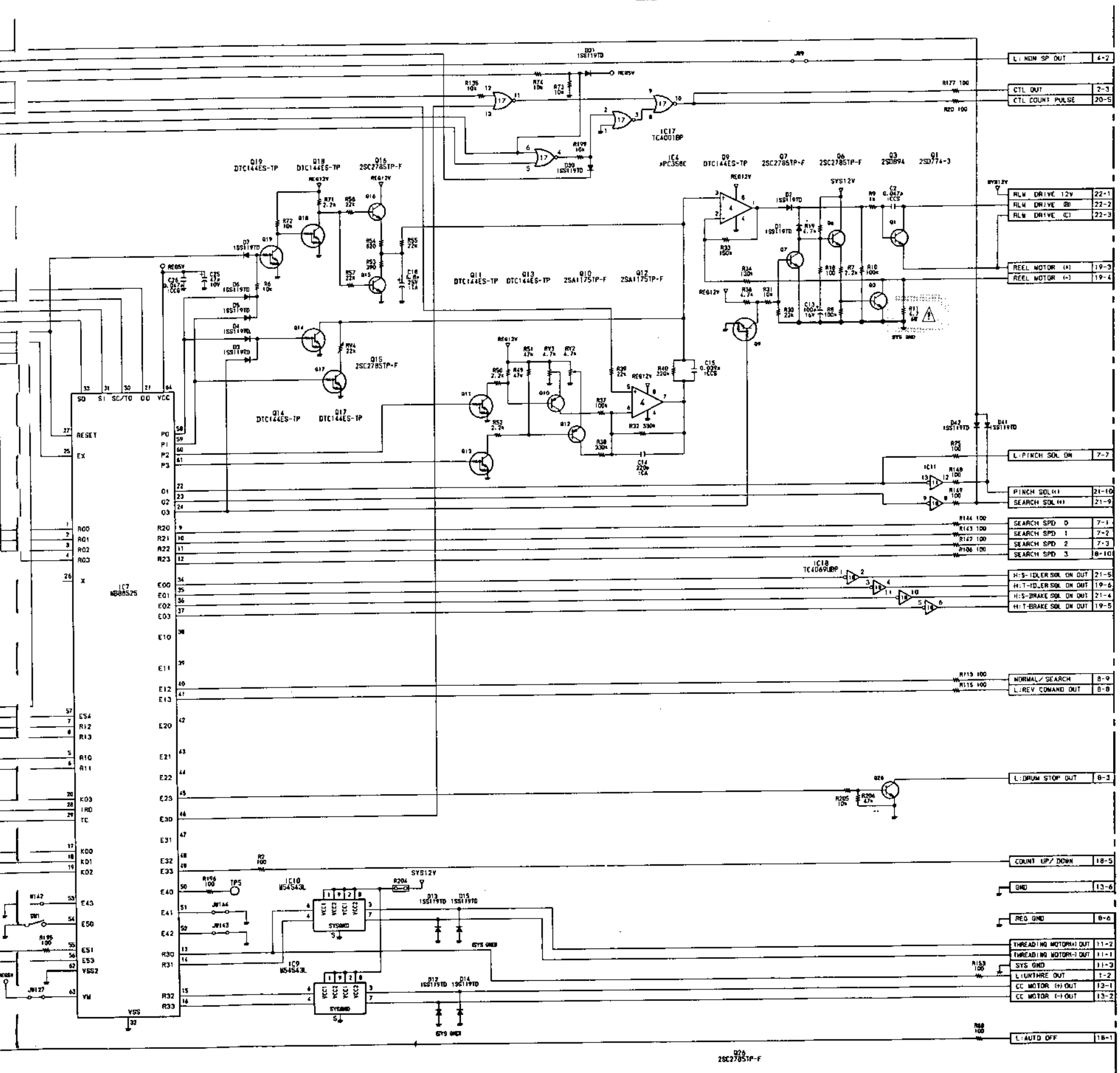
REG SV OUT	2-8
BACK UP SV OUT	20-7
REG GND	2-7
LED GND	18-10
REG 12V 1W	3-8
REG GND	3-1
REG GND	3-2
REG 7V 1W	3-3
SYS 12V 1W	3-4
SYS 12V 1W	3-5
SYS GND	3-6
SYS GND	3-7
KY MICDN STAND BY	20-8
RSTB 0	20-4
R D 0	1-12
R D 1	1-11
R D 2	1-10
R D 3	1-9
R D 4	1-8
R D 5	1-7
R D 6	1-6
R D 7	1-5
L:RESET OUT	7-10
L:RESET OUT	20-3
L:RESET OUT	2-2
L:DRWD RESET	20-6
L:LAMP CONTROL DN	13-3
L:TAPE TOP OUT	1-1
L:AUDIO MUTE OUT	5-1
M:VIDEO MUTE OUT	4-3
L:CONNECT IN	1-3
M2 READY IN	2/2
SERIAL CLK OUT	2/2
M1 DATA OUT	2/2
M2 DATA IN	2/2
L:RESET OUT	2/2
6.00MHZ OUT	2/2
CTL MUTING IN	2/2
T-LINE OUT	2/2
T-REEL FB IN	2/2

SY-106A (1/2)
1-822-349-22
VP-9000

SY-106A(2/2): SYSTEM CONTROL

UC; S/N 10251 thru 11250
J; S/N 10051 thru 10150





L: NOM SP OUT	4-2
CTL OUT	2-3
CTL COUNT PULSE	20-5
RLW DRIVE 12V	22-1
RLW DRIVE (B)	22-2
RLW DRIVE (C)	22-3
REEL MOTOR (+)	19-3
REEL MOTOR (-)	19-4
L: PINCH SOL ON	7-2
PINCH SOL (H)	21-10
SEARCH SOL (H)	21-9
SEARCH SPD 0	7-1
SEARCH SPD 1	7-2
SEARCH SPD 2	7-3
SEARCH SPD 3	8-10
H:S-IDLER SOL ON OUT	21-5
H:T-IDLER SOL ON OUT	19-6
H:S-BRAKE SOL ON OUT	21-4
H:T-BRAKE SOL ON OUT	19-5
NORMAL/SEARCH	8-9
L:REV COMMAND OUT	8-8
L:DRUM STOP OUT	8-3
COUNT UP/ DOWN	18-5
GND	13-6
REG GND	8-6
THREADING MOTOR(+)-OUT	11-2
THREADING MOTOR(-)-OUT	11-1
SYS GND	11-3
L:UNTHRE OUT	1-2
CC MOTOR (+) OUT	13-1
CC MOTOR (-) OUT	13-2
L: AUTO OFF	18-1

注意1: △印及び \square で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE:
The shaded and \triangle -marked components are critical to safety.
Replace only with same components as specified.

SY-106A (2/2)
1-822-389-22
VF-9006

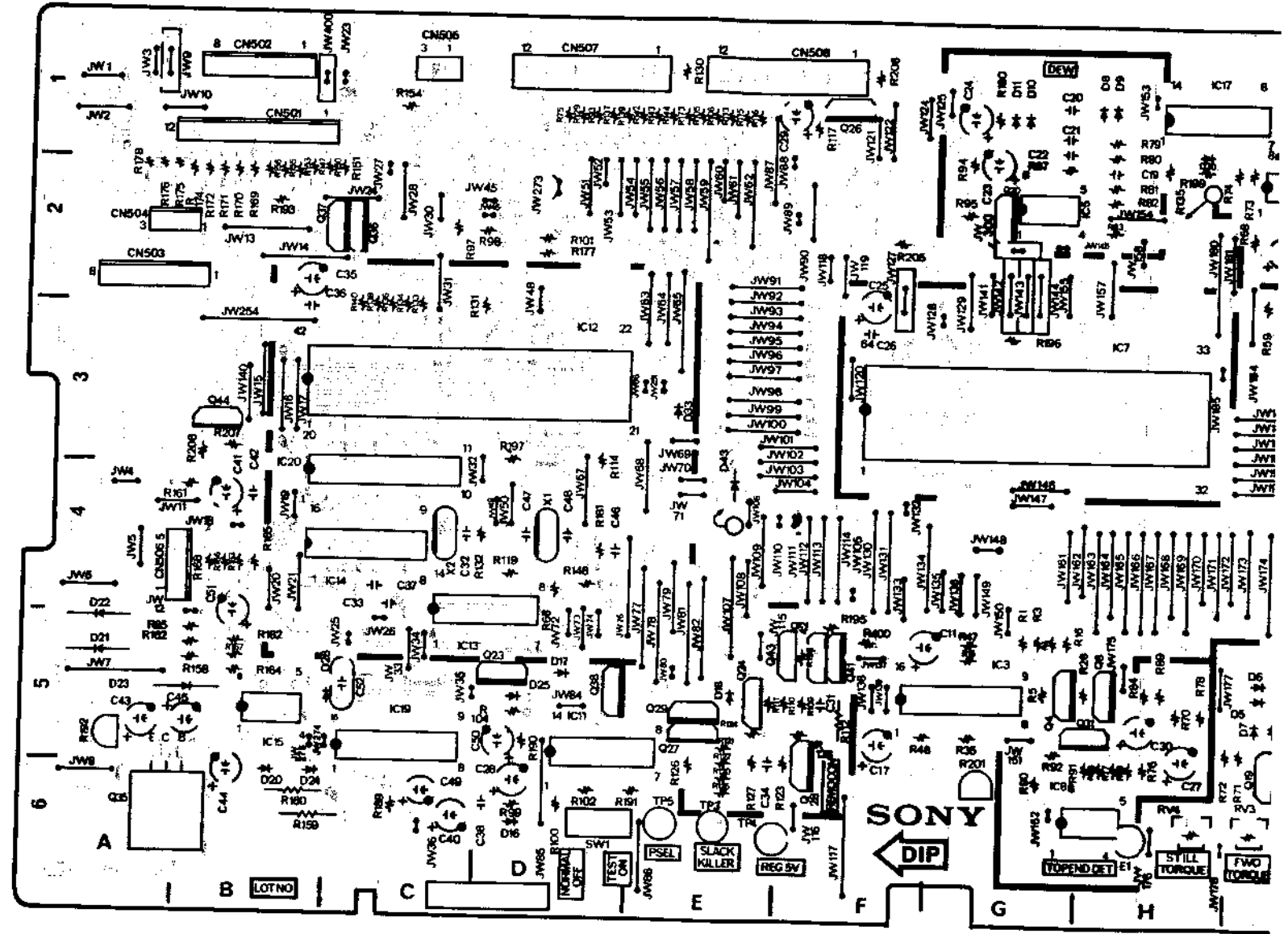
SY-106A: SYSTEM CONTROL

UC; S/N 10251 thru 11250

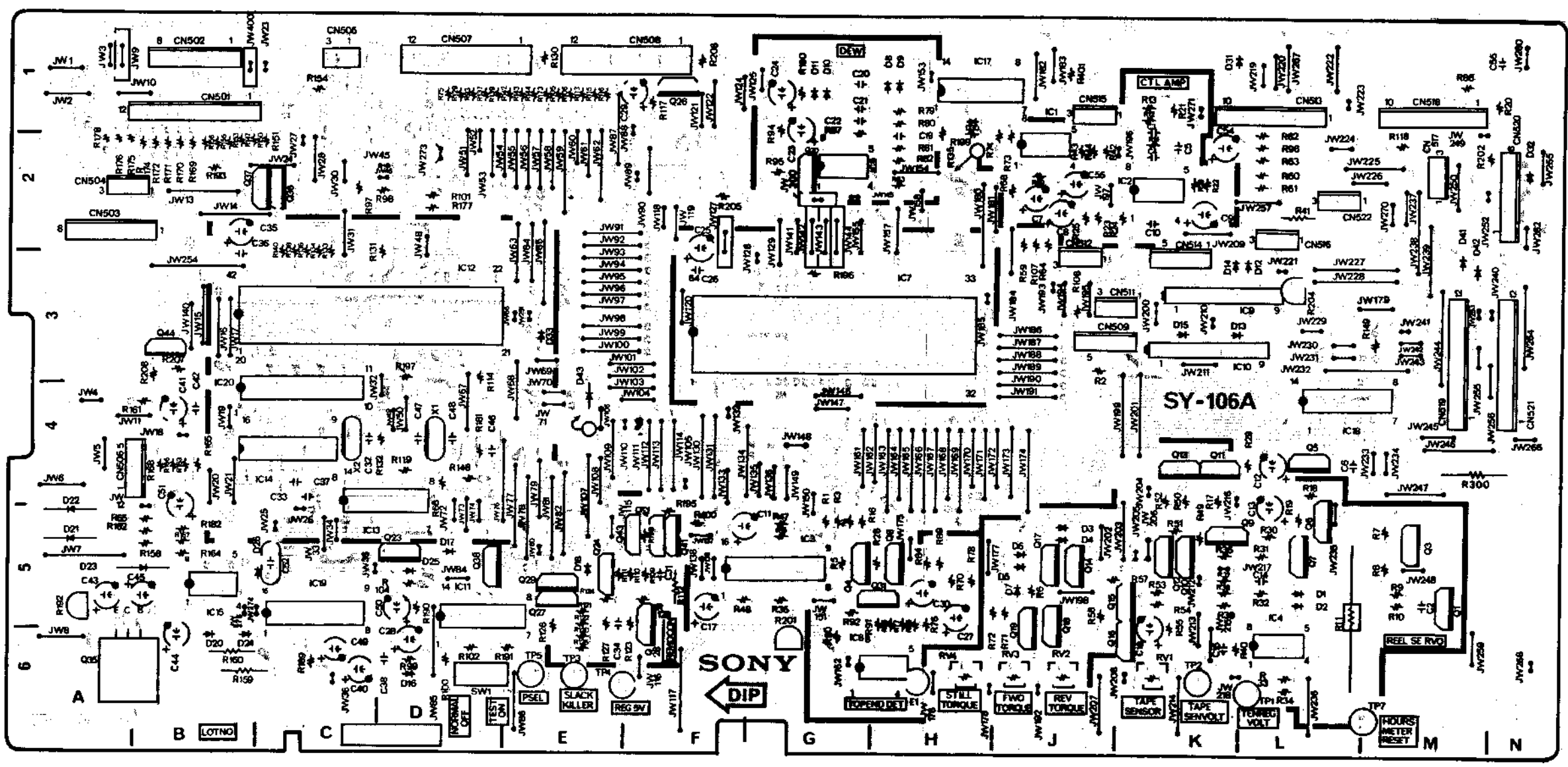
J; S/N 10051 thru 10150

SY-106A (1-622-389-22)

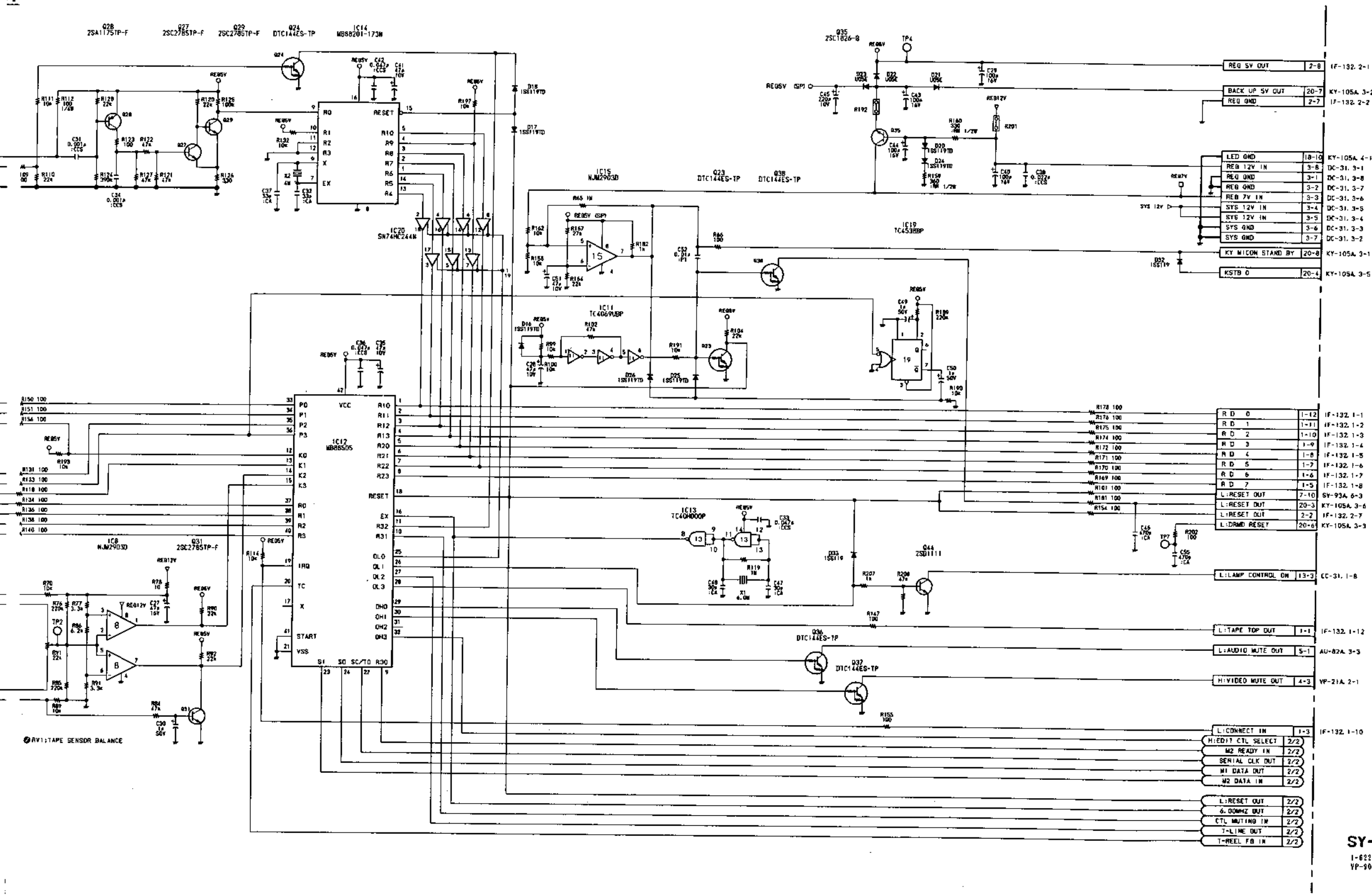
CN501 B-1	IC3	G-5	RV4	H-6
CN502 B-1	IC4	L-6	SW1	D-6
CN503 A-2	IC5	G-2		
CN504 A-2	IC7	G-3		
CN505 C-1	IC8	H-6	TP1	L-6
CN506 B-4	IC9	K-3	TP2	K-6
CN507 D-1	IC10	K-3	TP3	E-6
CN508 E-1	IC11	D-5	TP4	F-6
CN509 J-3	IC12	C-3	TP5	E-6
CN511 J-3	IC13	D-4	TP7	M-6
CN512 J-3	IC14	C-4		
CN513 L-1	IC15	B-5	X1	D-4
CN514 K-3	IC17	H-1	X2	C-4
CN515 J-1	IC18	L-4		
CN516 L-2	IC19	C-5		
CN517 M-2	IC20	C-4		
CN518 M-1				
CN519 M-3	Q1	M-5		
CN520 N-2	Q3	M-5		
CN521 N-3	Q4	G-5		
CN522 L-2	Q5	L-4		
	Q6	L-5		
D1	L-5	Q7	L-5	
D2	L-5	Q8	H-5	
D3	J-5	Q9	K-5	
D4	J-5	Q10	K-5	
D5	J-5	Q11	K-4	
D6	J-5	Q12	K-5	
D7	J-5	Q13	K-4	
D8	H-1	Q14	J-5	
D9	H-1	Q15	K-5	
D10	G-1	Q16	K-6	
D11	G-1	Q17	J-5	
D12	L-3	Q18	J-5	
D13	K-3	Q19	J-5	
D14	K-3	Q20	G-2	
D15	K-3	Q23	D-5	
D16	D-6	Q24	E-5	
D17	D-5	Q26	F-1	
D18	E-5	Q27	E-5	
D20	B-6	Q28	F-5	
D21	A-5	Q29	E-5	
D22	A-5	Q31	H-5	
D23	B-5	Q35	A-6	
D24	B-6	Q36	C-2	
D25	D-5	Q37	C-2	
D26	C-5	Q38	D-5	
D31	K-1	Q41	F-5	
D32	N-2	Q42	F-5	
D33	E-3	Q43	F-5	
D43	E-4	Q44	B-3	
E1	H-6	RV1	K-6	
		RV2	J-6	
IC1	J-2	RV3	J-6	
IC2	K-2			



EI



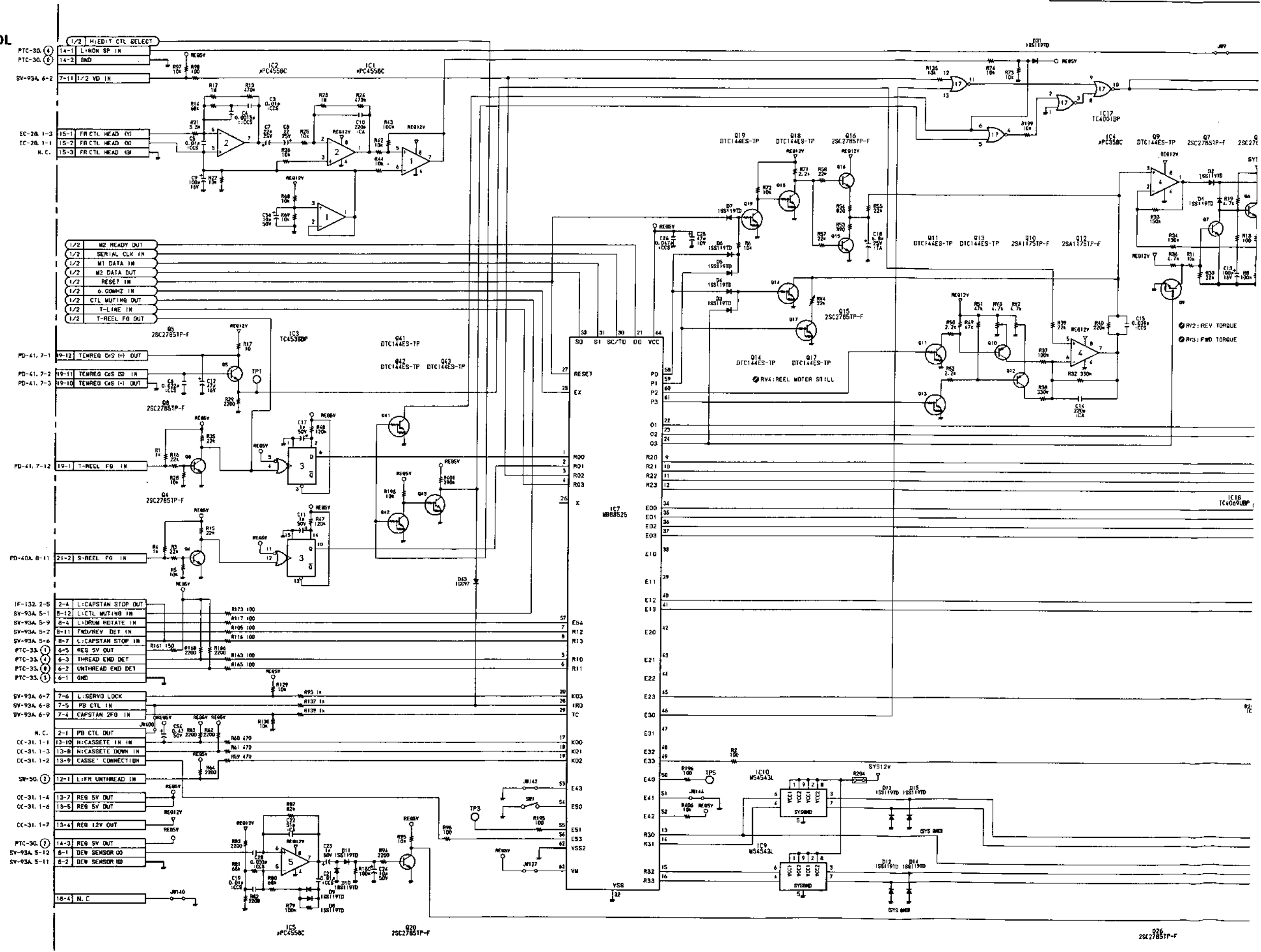
SY-106A
 -COMPONENT SIDE-
 I-822-389-22
 VP-8010

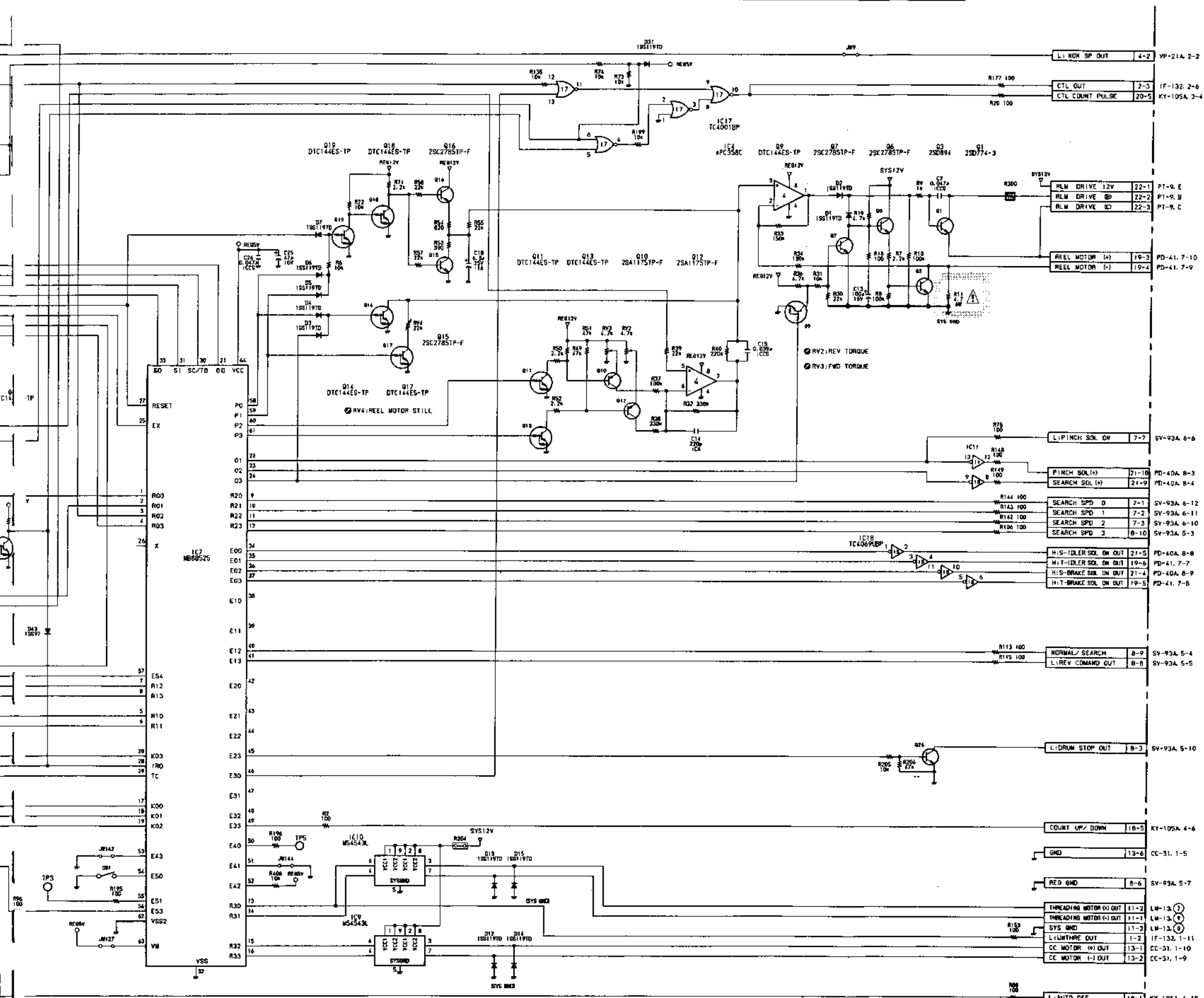


SY-106A (1/2)
1-622-389-23
YP-9000

SY-106A(2/2): SYSTEM CONTROL

UC; S/N 11251 and higher
J; S/N 10151 and higher





L: NOM SP OUT	4-2	VP-21A 2-2
CTL OUT	2-3	IF-132 2-6
CTL COUNT PULSE	20-5	KY-105A 3-4
RLM DRIVE 12V	22-1	PT-9. E
RLM DRIVE 0V	22-2	PT-9. B
RLM DRIVE 0V	22-3	PT-9. C
REEL MOTOR (+)	19-3	PD-41. 7-10
REEL MOTOR (-)	19-4	PD-41. 7-9
L: PINCH SOL. DN	7-7	SV-93A 6-6
PINCH SOL (+)	21-10	PD-40A 8-3
SEARCH SOL (+)	21-9	PD-40A 8-4
SEARCH SPD 0	7-1	SV-93A 6-12
SEARCH SPD 1	7-2	SV-93A 6-11
SEARCH SPD 2	7-3	SV-93A 6-10
SEARCH SPD 3	8-10	SV-93A 5-3
H-S- IDLER SOL. DN OUT	21-5	PD-40A 8-8
H-T- IDLER SOL. DN OUT	19-6	PD-41. 7-7
H-S- BRAKE SOL. DN OUT	21-4	PD-40A 8-9
H-T- BRAKE SOL. DN OUT	19-5	PD-41. 7-6
NORMAL/ SEARCH	8-9	SV-93A 5-4
L: REV COMMAND OUT	8-8	SV-93A 5-5
L: DRUM STOP OUT	8-3	SV-93A 5-10
COUNT UP/ DOWN	18-5	KY-105A 4-6
GND	13-6	CC-31. 1-5
RED GND	8-6	SV-93A 5-7
THREADING MOTOR (+) OUT	11-2	LW-13. ②
THREADING MOTOR (-) OUT	11-1	LW-13. ①
SYS GND	11-3	LW-13. ③
L: L/WTHRE OUT	1-2	IF-132 1-11
CC MOTOR (+) OUT	13-1	CC-31. 1-10
CC MOTOR (-) OUT	13-2	CC-31. 1-9
L: AUTO OFF	18-1	KY-105A 4-10

注意1: △印及び□印で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE:
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Replace only with same components as specified.

SY-106A (2/2)
1-622-349-23
YP-9300

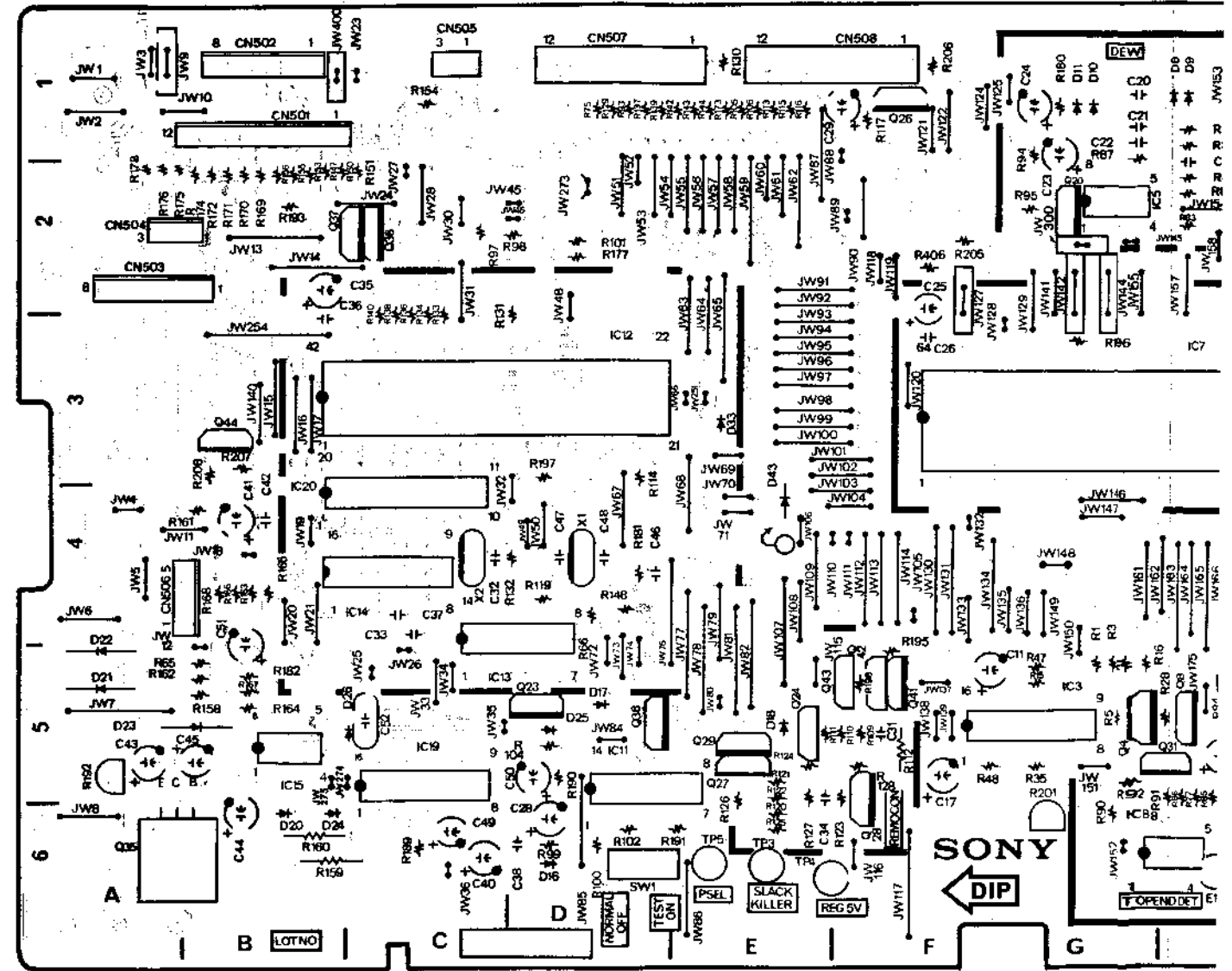
SY-106A: SYSTEM CONTROL

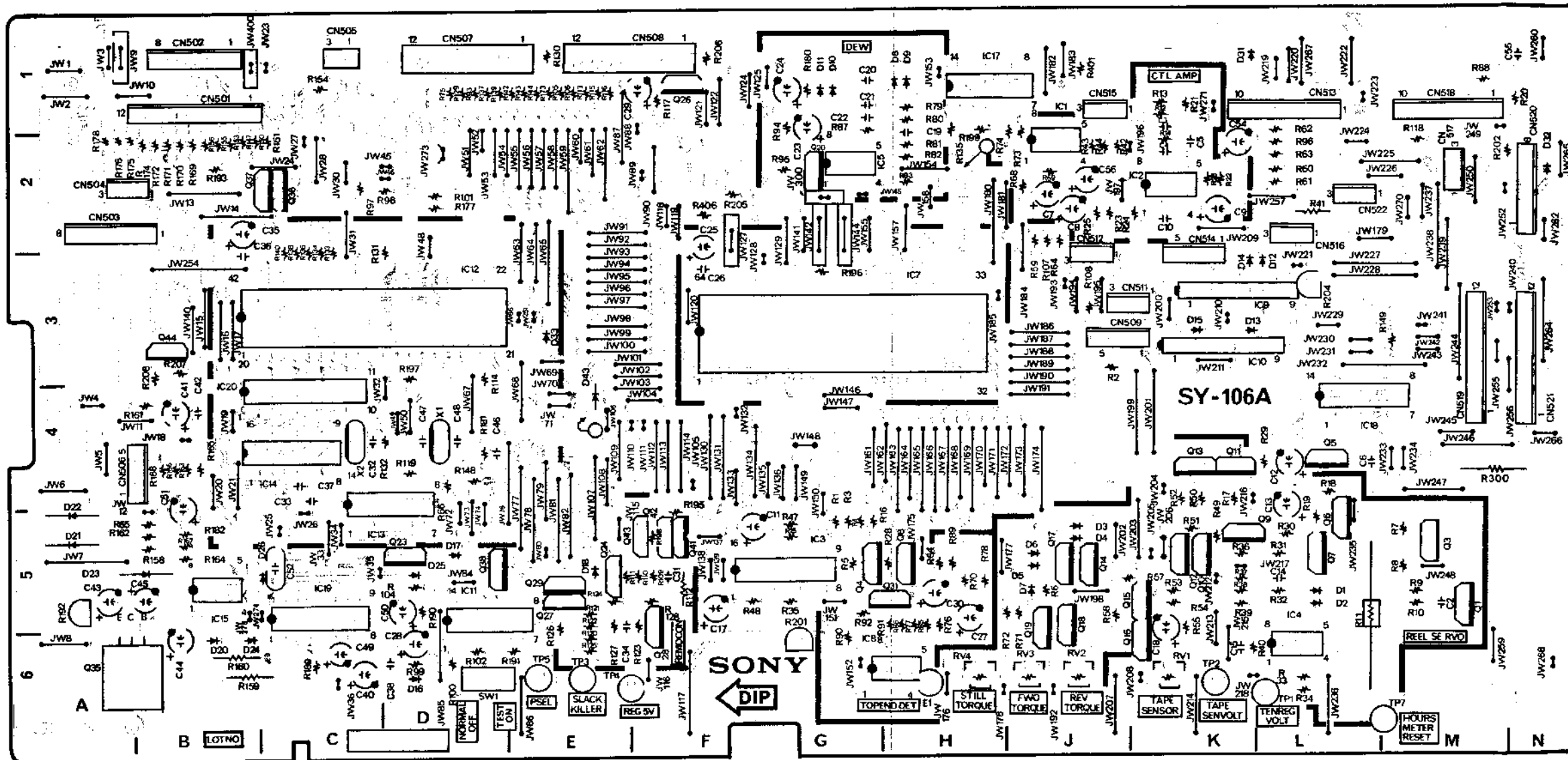
UC; S/N 11251 and higher
 J; S/N 10151 and higher

SY-106A (1-622-389-23)

CN501	B-1	D43	E-4	Q44	B-3
CN502	B-1				
CN503	A-2	E1	H-6	RV1	K-6
CN504	A-2			RV2	J-6
CN505	C-1	IC1	J-2	RV3	J-6
CN506	B-4	IC2	K-2	RV4	H-6
CN507	D-1	IC3	G-5		
CN508	E-1	IC4	L-6	SW1	D-6
CN509	J-3	IC5	G-2		
CN511	J-3	IC7	G-3	TP1	L-6
CN512	J-3	IC8	H-6	TP2	K-6
CN513	L-1	IC9	K-3	TP3	E-6
CN514	K-3	IC10	K-3	TP4	E-6
CN515	J-1	IC11	D-5	TP5	E-6
CN516	L-2	IC12	D-3	TP7	M-6
CN517	M-2	IC13	D-4		
CN518	M-1	IC14	C-4	X1	D-4
CN519	M-3	IC15	B-5	X2	C-4
CN520	N-2	IC17	H-1		
CN521	N-3	IC18	L-4		
CN522	L-2	IC19	C-5		
		IC20	C-4		

D1	L-5		
D2	L-5	Q1	M-5
D3	J-5	Q3	M-5
D4	J-5	Q4	G-5
D5	J-5	Q5	L-4
D6	J-5	Q6	L-5
D7	J-5	Q7	L-5
D8	H-1	Q8	H-5
D9	H-1	Q9	K-5
D10	G-1	Q10	K-5
D11	G-1	Q11	K-4
D12	L-3	Q12	K-5
D13	K-3	Q13	K-4
D14	K-3	Q14	J-5
D15	K-3	Q15	K-5
D16	D-6	Q16	K-6
D17	D-5	Q17	J-5
D18	E-5	Q18	J-5
D20	B-6	Q19	J-5
D21	A-5	Q20	G-2
D22	A-5	Q23	D-5
D23	B-5	Q24	E-5
D24	B-6	Q26	F-1
D25	D-5	Q27	E-5
D26	C-5	Q28	F-5
D30	H-1	Q29	E-5
D31	K-1	Q31	H-5
D32	N-2	Q35	A-6
D33	E-3	Q36	C-2
D41	M-3	Q37	C-2
D42	M-3	Q38	D-5
		Q41	F-5
		Q42	F-5
		Q43	F-5



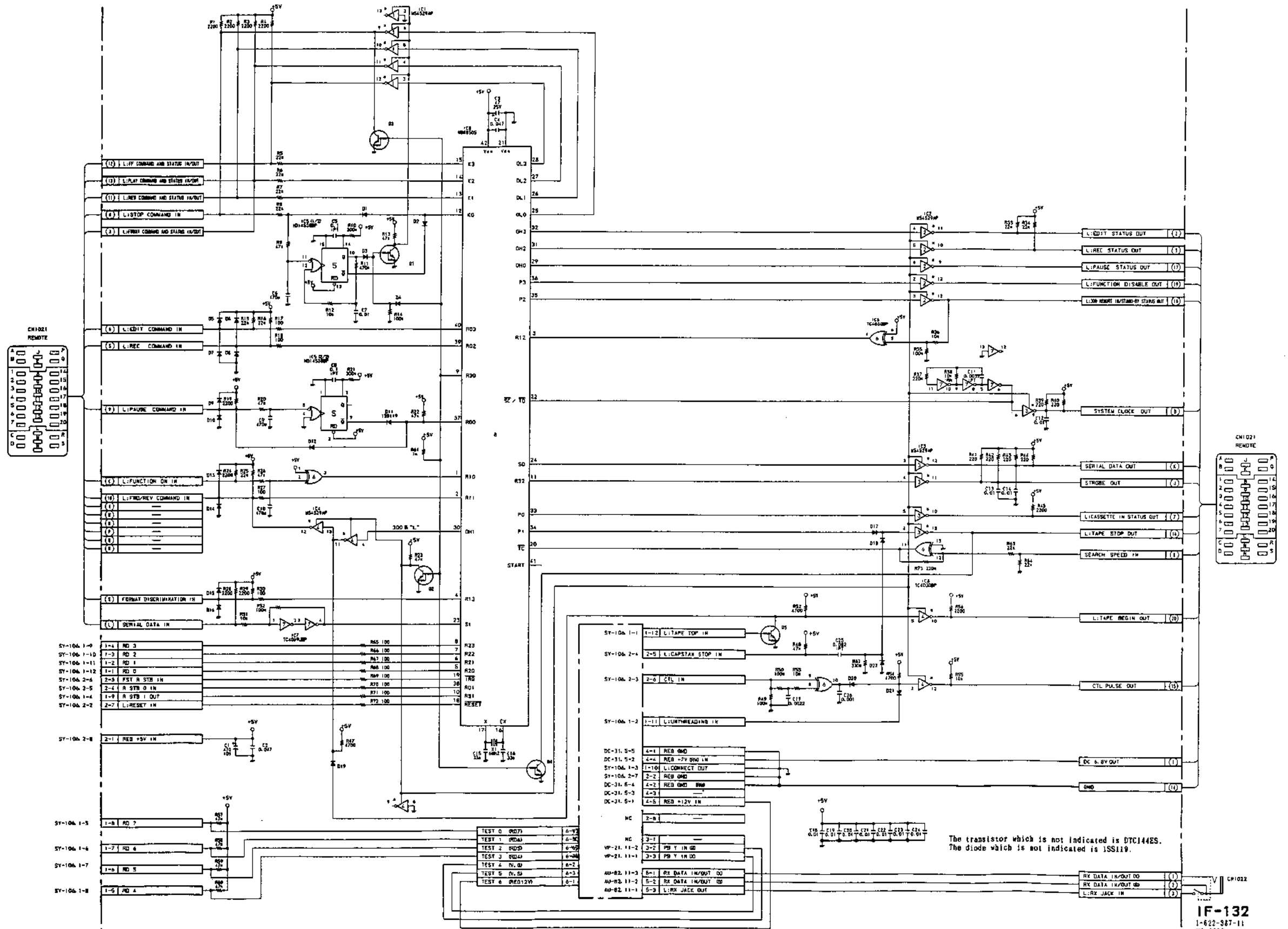


SY-106 A

-COMPONENT SIDE-
I-622-349-23
VP-9000

IF-132: 33P INTERFACE

UC; S/N 10001 thru 11700
 J; S/N 10001 thru 10200



IF-132: 33P INTERFACE

UC; S/N 10001 thru 11700

J; S/N 10001 thru 10200

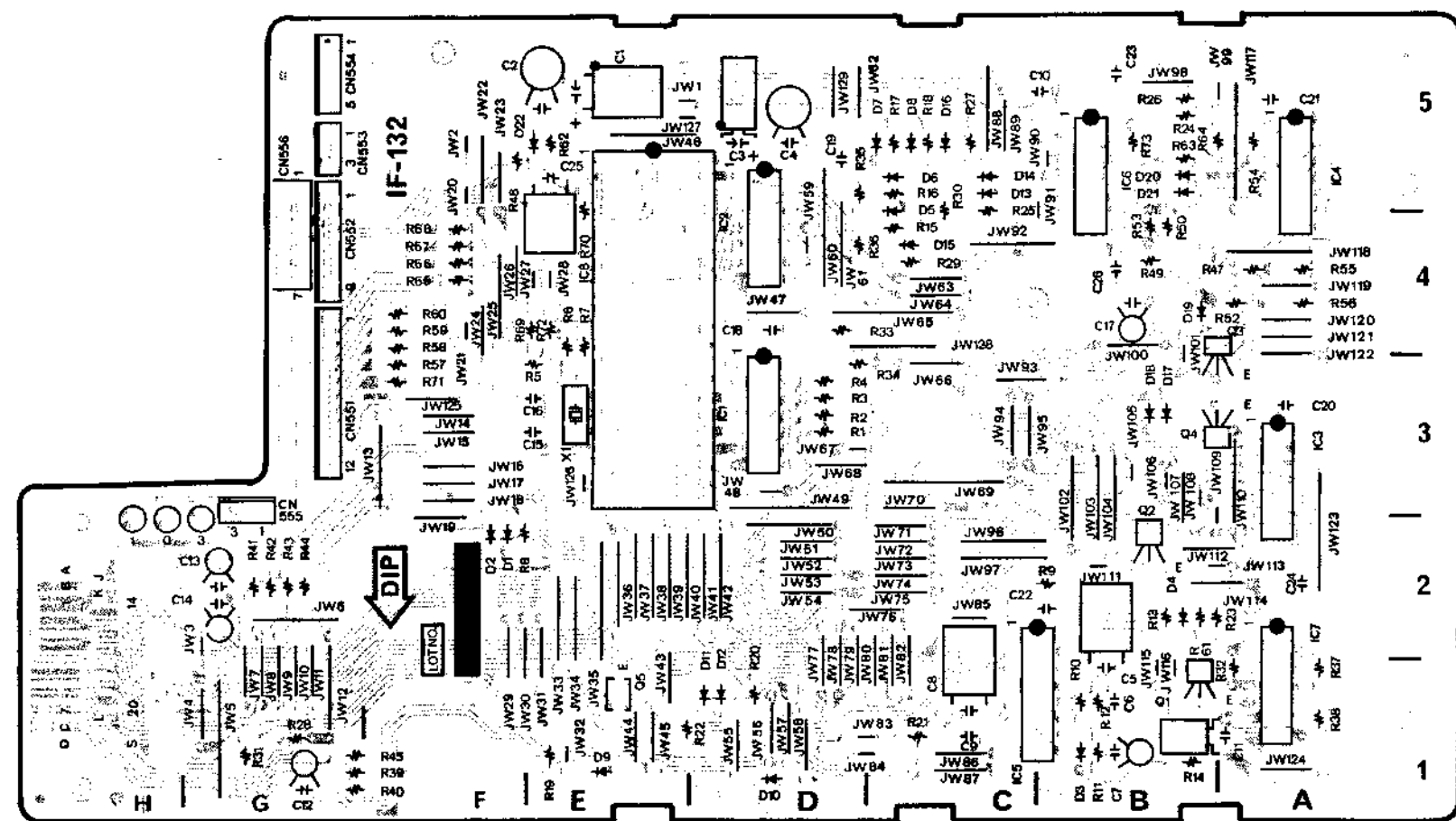
IF-132 (1-622-387-11)

- CN551 G-3
- CN552 G-4
- CN553 G-5
- CN554 G-5
- CN555 G-3
- CN556 G-4

- D1 F-2
- D2 F-2
- D3 B-1
- D4 B-2
- D5 C-5
- D6 C-5
- D7 C-5
- D8 C-5
- D9 E-1
- D10 D-1
- D11 D-1
- D12 D-1
- D13 C-5
- D14 C-5
- D15 C-4
- D16 C-5
- D17 B-3
- D18 B-3
- D19 B-4
- D20 B-5
- D21 B-5
- D22 E-5

- IC1 D-3
- IC2 D-4
- IC3 A-3
- IC4 A-5
- IC5 C-2
- IC6 B-5
- IC7 A-1
- IC8 E-4

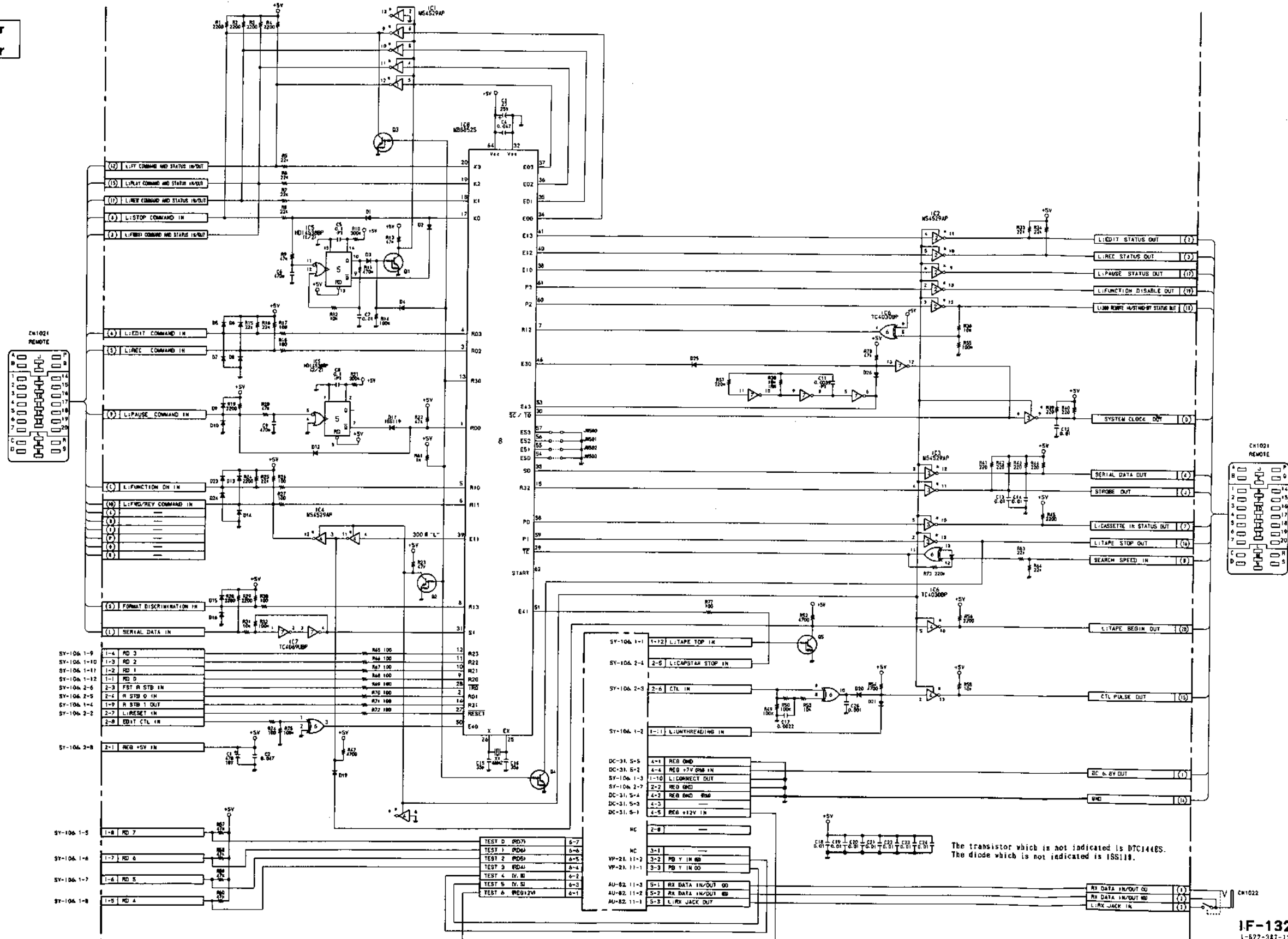
- Q1 B-1
- Q2 B-2
- Q3 B-4
- Q4 B-3
- Q5 E-1
- X1 E-3



IF-132
 -COMPONENT SIDE-
 1-622-387-11
 VO-9600
 VP-9000
 VP-7000

IF-132: 33P INTERFACE

UC: S/N 11701 and higher
 J: S/N 10201 and higher



IF-132:33P INTERFACE

UC; S/N 11701 and higher
 J; S/N 10201 and higher

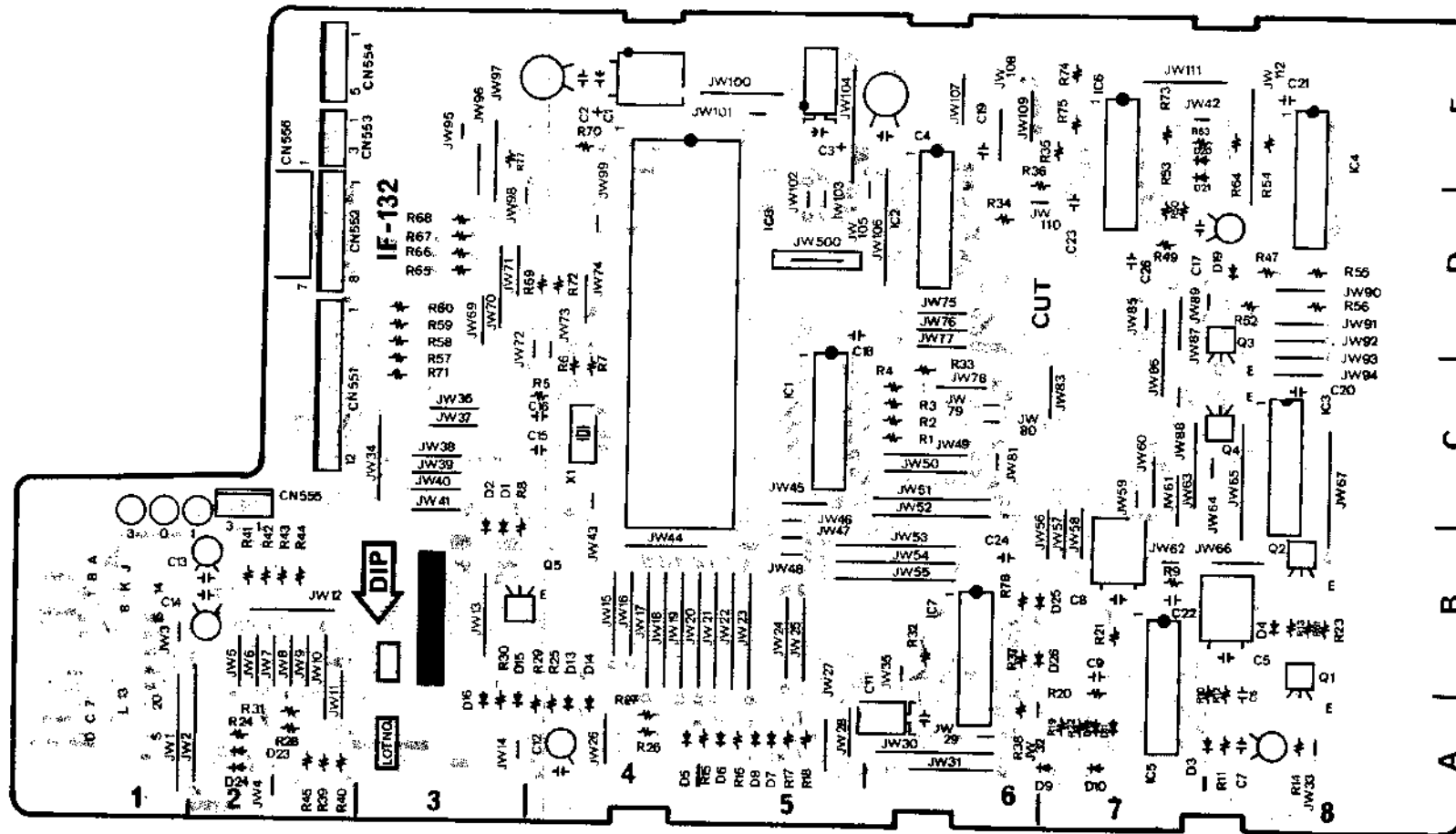
IF-132 (1-622-387-12)

- CN551 C-2
- CN552 D-2
- CN553 E-2
- CN554 E-2
- CN555 C-2
- CN556 D-2

- D1 B-3
- D2 B-3
- D3 A-8
- D4 B-8
- D5 A-4
- D6 A-5
- D7 A-5
- D8 A-5
- D9 A-7
- D10 A-7
- D13 A-4
- D14 A-4
- D15 A-3
- D16 A-3
- D19 D-8
- D20 E-7
- D21 E-7
- D23 A-2
- D24 A-2
- D25 B-7
- D26 B-7

- IC1 C-5
- IC2 D-6
- IC3 C-8
- IC4 E-8
- IC5 B-7
- IC6 E-7
- IC7 B-6
- IC8 D-4

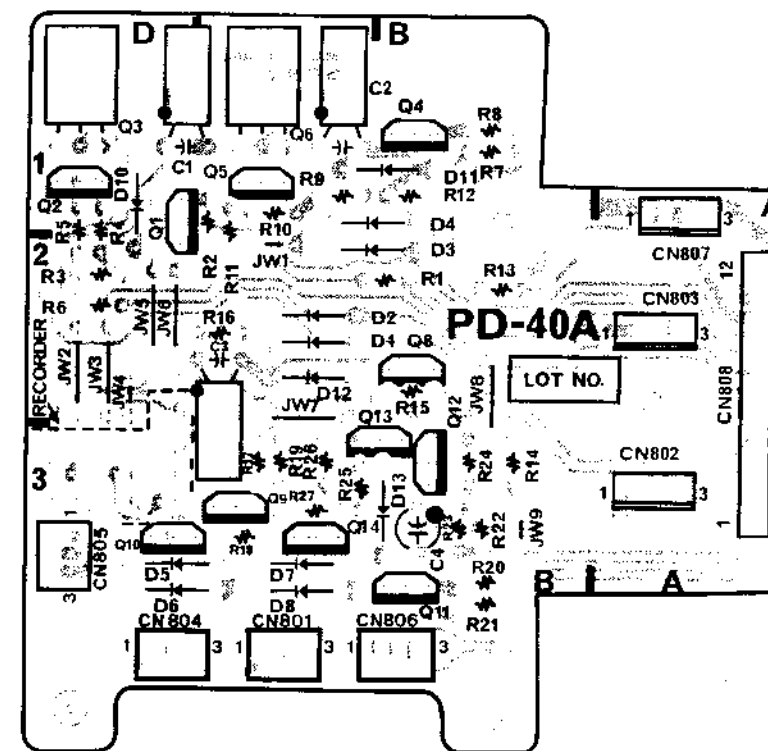
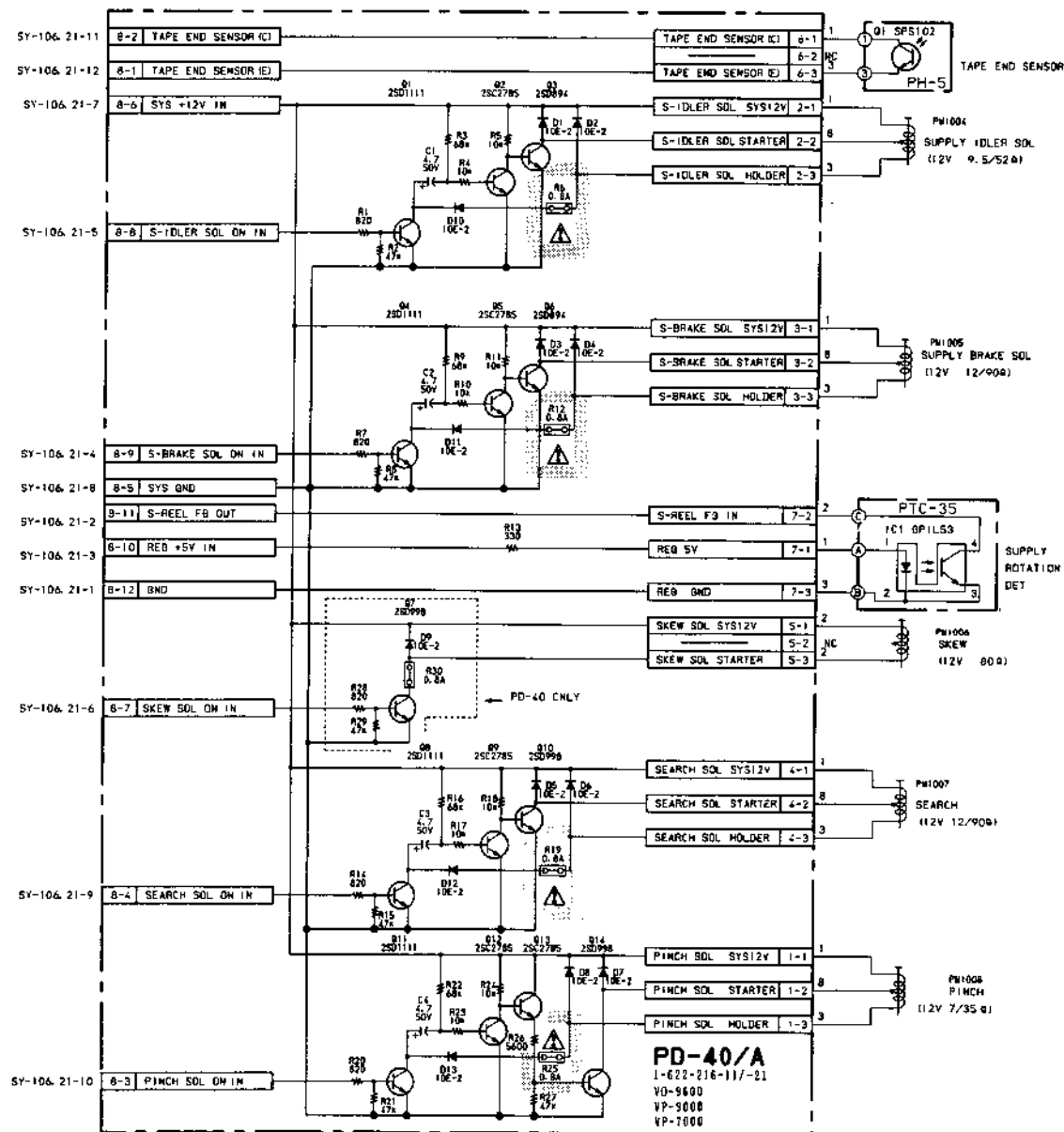
- Q1 B-8
- Q2 B-8
- Q3 D-8
- Q4 C-8
- Q5 B-3
- X1 C-4



IF-132
 -COMPONENT SIDE-
 1-622-387-12
 YD-9600
 YP-9600
 YP-7800

PD-40A: PLUNGER SOLENOIDS

PH-5: TAPI
PTC-35: S.



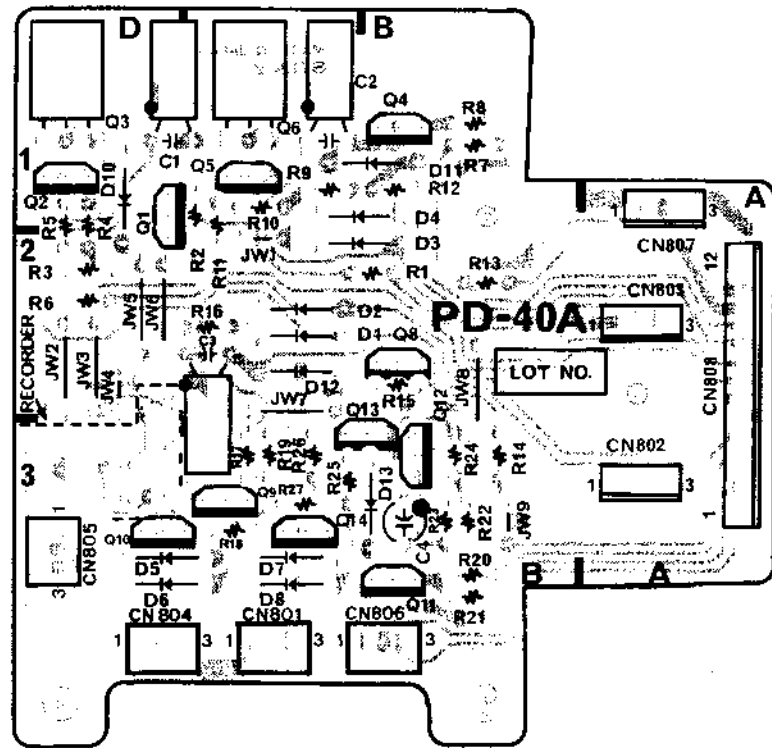
PD-40A
-COMPONENT SIDE-
1-622-216-21
VP-9600

注意 1: △印及び影で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE:

The shaded and △-marked components are critical to safety. Replace only with same components as specified.

PH-5: TAPE BEGINNING/END SENSOR
 PTC-35: S/T REEL ROTATION DETECTOR



PD-40A
 -COMPONENT SIDE-
 1-622-216-21
 VP-9000

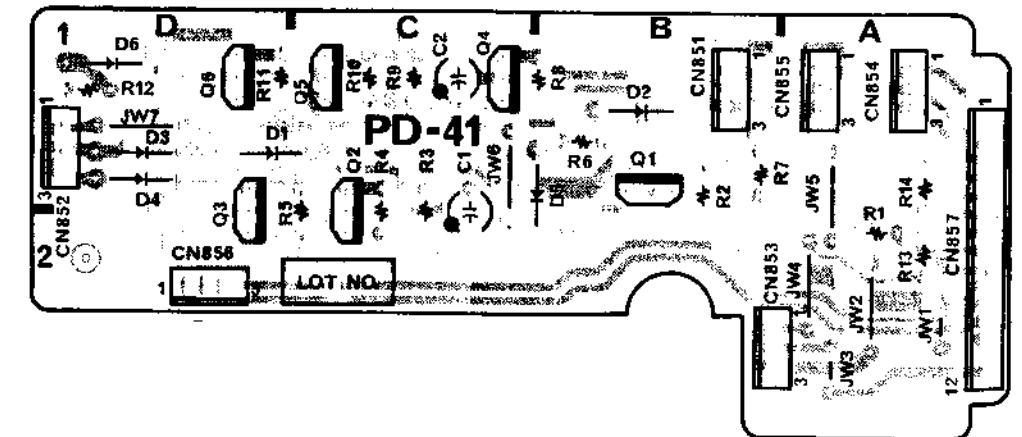
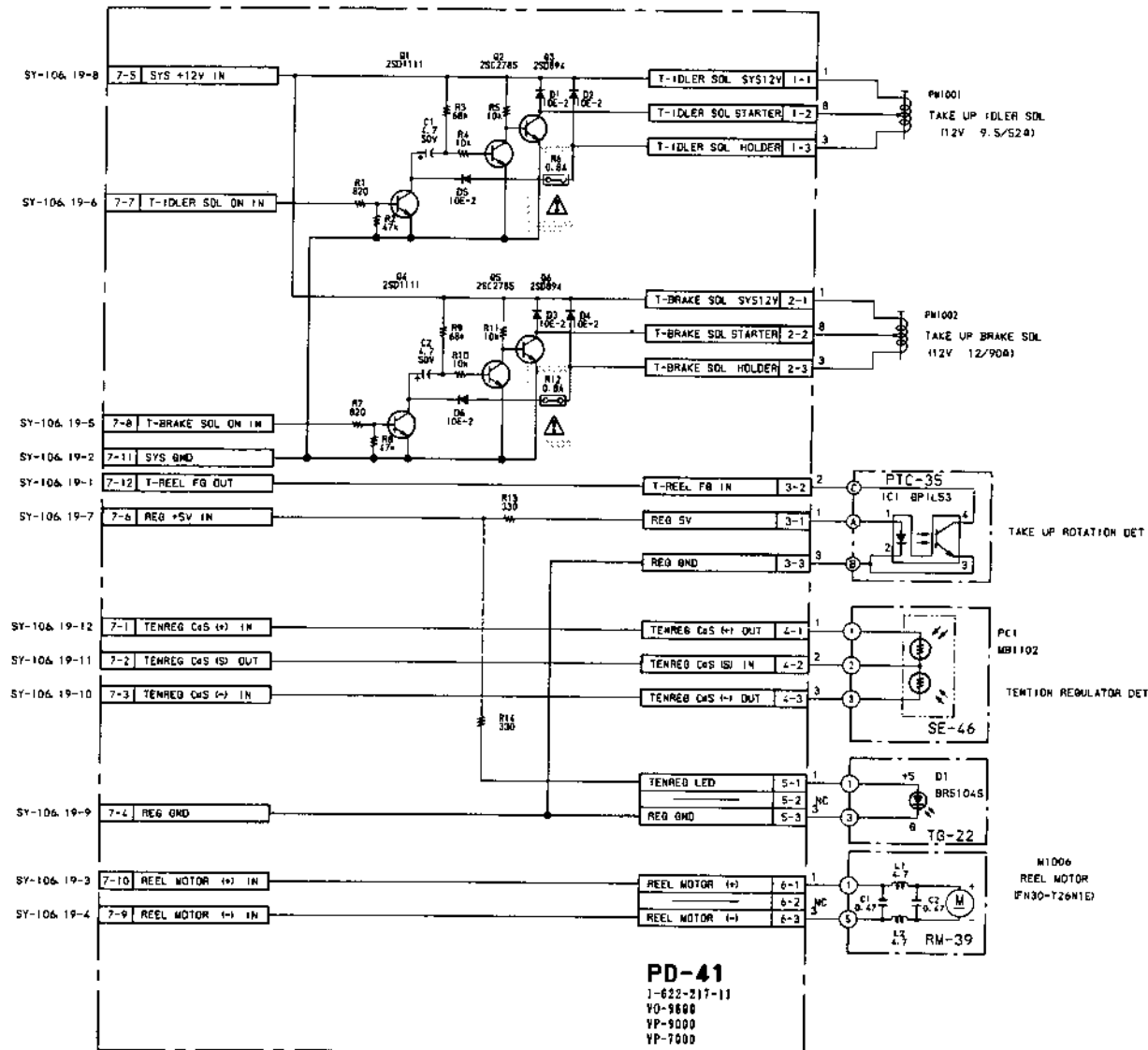


PH-5
 -COMPONENT SIDE-
 1-603-737-11
 VD-9800
 VP-5000
 VP-7000



PTC-35
 -COMPONENT SIDE-
 1-622-214-11
 VD-9800
 VP-9800
 VP-7000

PD-41: PLUNGER SOLENOIDS



PD-41
 -COMPONENT SIDE-
 1-622-217-11
 Y0-9600
 YP-9000
 YP-7000

注意 1: 印及び で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

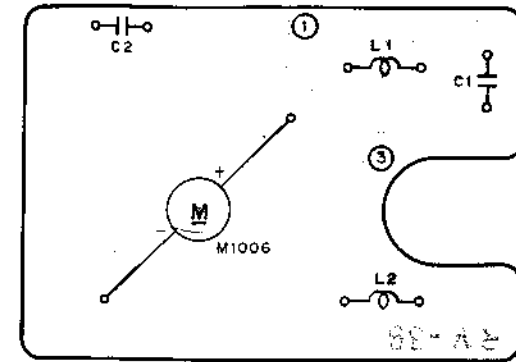
NOTE:

The shaded and -marked components are critical to safety.
 Replace only with same components as specified.

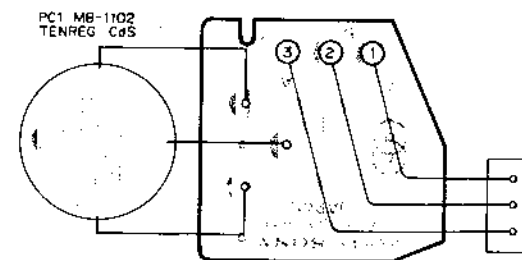
PTC-35: S/T REEL ROTATION DETECTOR
RM-39: REEL MOTOR
SE-46: TENSION REGULATOR DETECTOR
TG-22: TENSION REGULATOR LED



PTC-35
-COMPONENT SIDE-
1-622-214-11
YD-9600
YP-9000
YP-7000



RM-39 - SOLDERING SIDE -
1-618-873-11
YD-9500
YP-9000
YP-7000



SE-46
-SOLDERING SIDE-
1-618-599-11
YD-9600
YP-9000
YP-7000

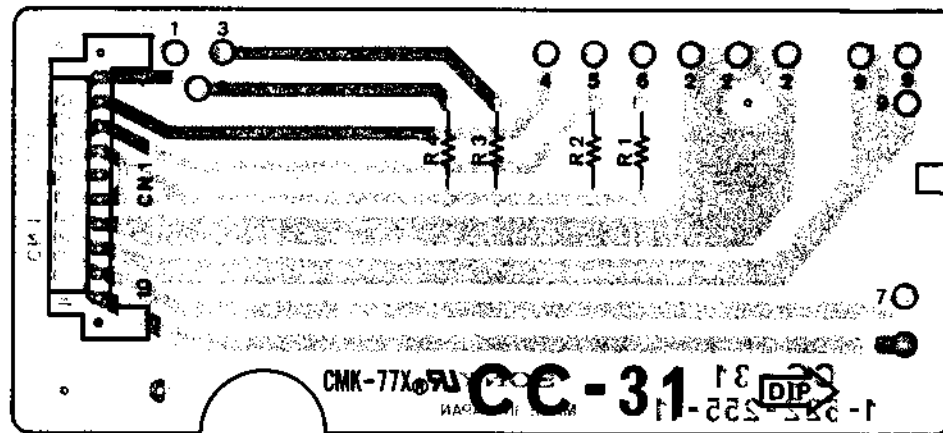


TG-22
- SOLDERING SIDE -
1-618-597-11
YD-9600
YP-9000
YP-7000

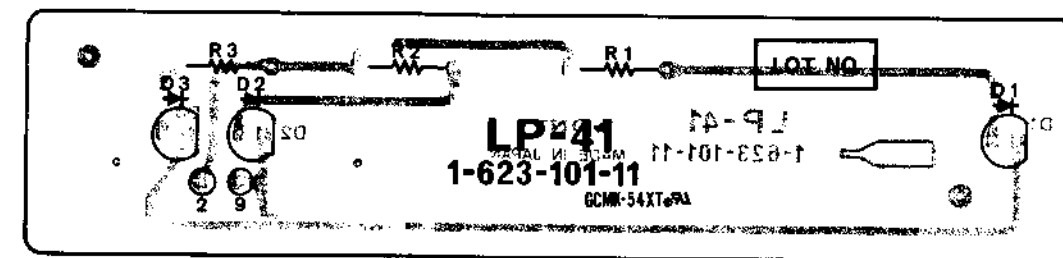


PD-41
-COMPONENT SIDE-
1-622-214-11
YD-9600
YP-9000
YP-7000

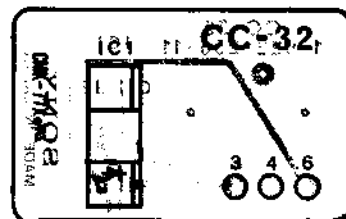
- CC-31: CASSETTE COMPARTMENT DRIVER
- CC-32: CASSETTE IN DETECTOR
- CC-33: CASSETTE DOWN DETECTOR
- LP-41: CASSETTE COMPARTMENT LIGHT



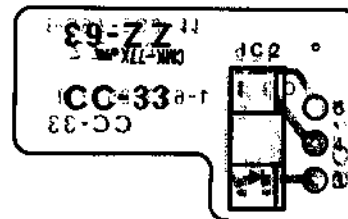
CC-31
 -COMPONENT SIDE-
 1-622-255-11
 VO-9500
 YP-9000
 YP-7000



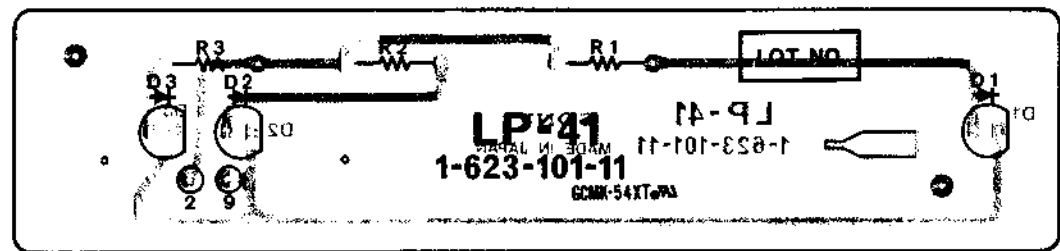
LP-41
 -COMPONENT SIDE-
 1-623-101-11
 VO-9500
 YP-9000
 YP-7000



CC-32
 -COMPONENT SIDE-
 1-622-254-11
 VO-9500
 YP-9000
 YP-7000



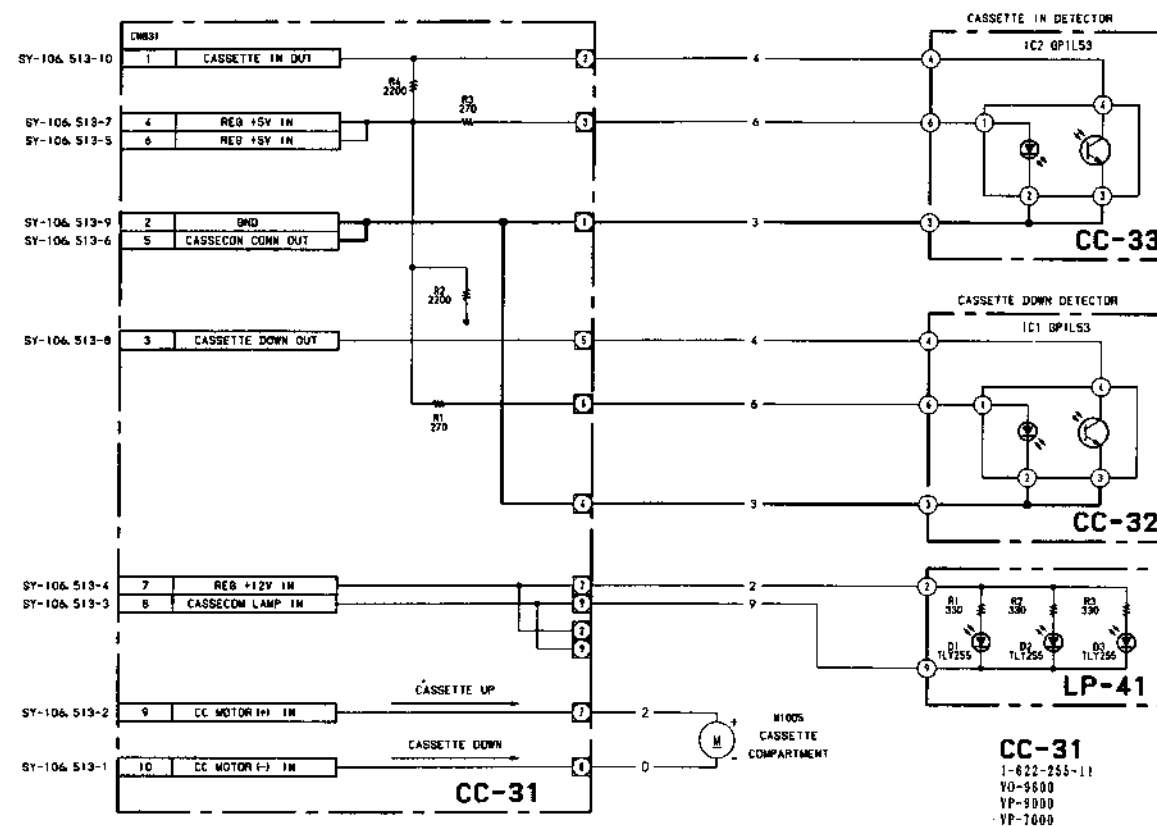
CC-33
 -COMPONENT SIDE-
 1-622-257-11
 VO-9500
 YP-9000
 YP-7000



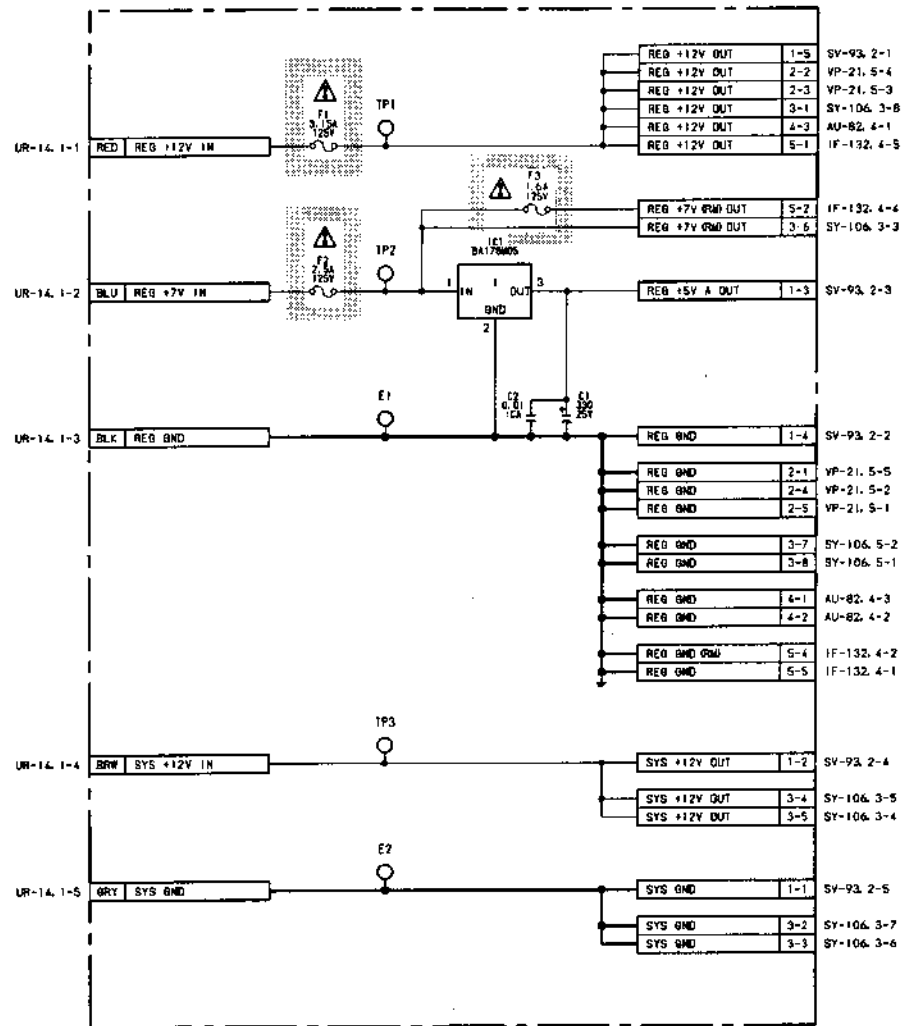
LP-41

-COMPONENT SIDE-

1-623-101-11
 VO-8600
 VP-8000
 YP-7000



DC-31:DC SUPPLY



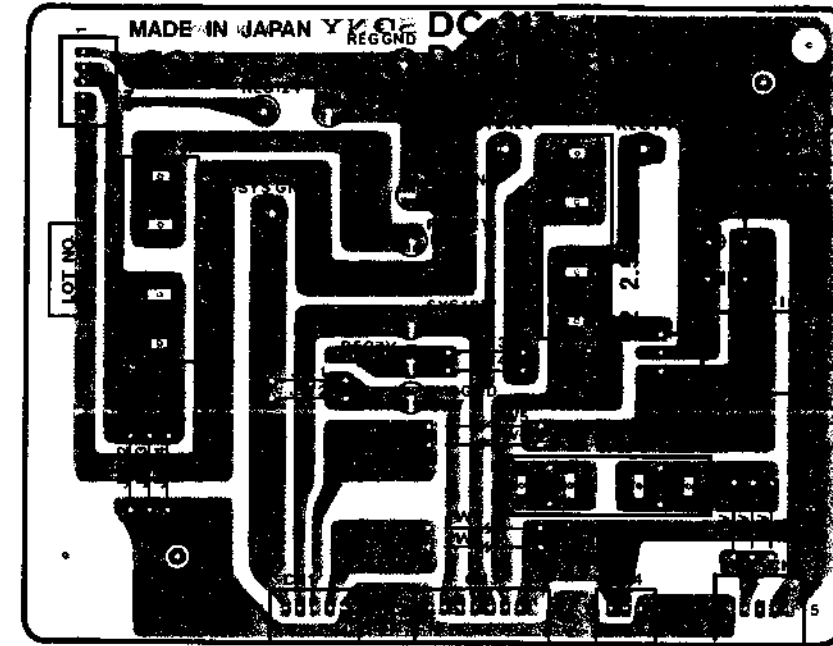
DC-31/A

1-622-221-11/-21
 VO-9500
 VP-9000
 VO-9500P
 VP-9000P

注意1: △印及び影で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE:

The shaded and △-marked components are critical to safety. Replace only with same components as specified.

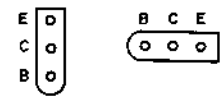
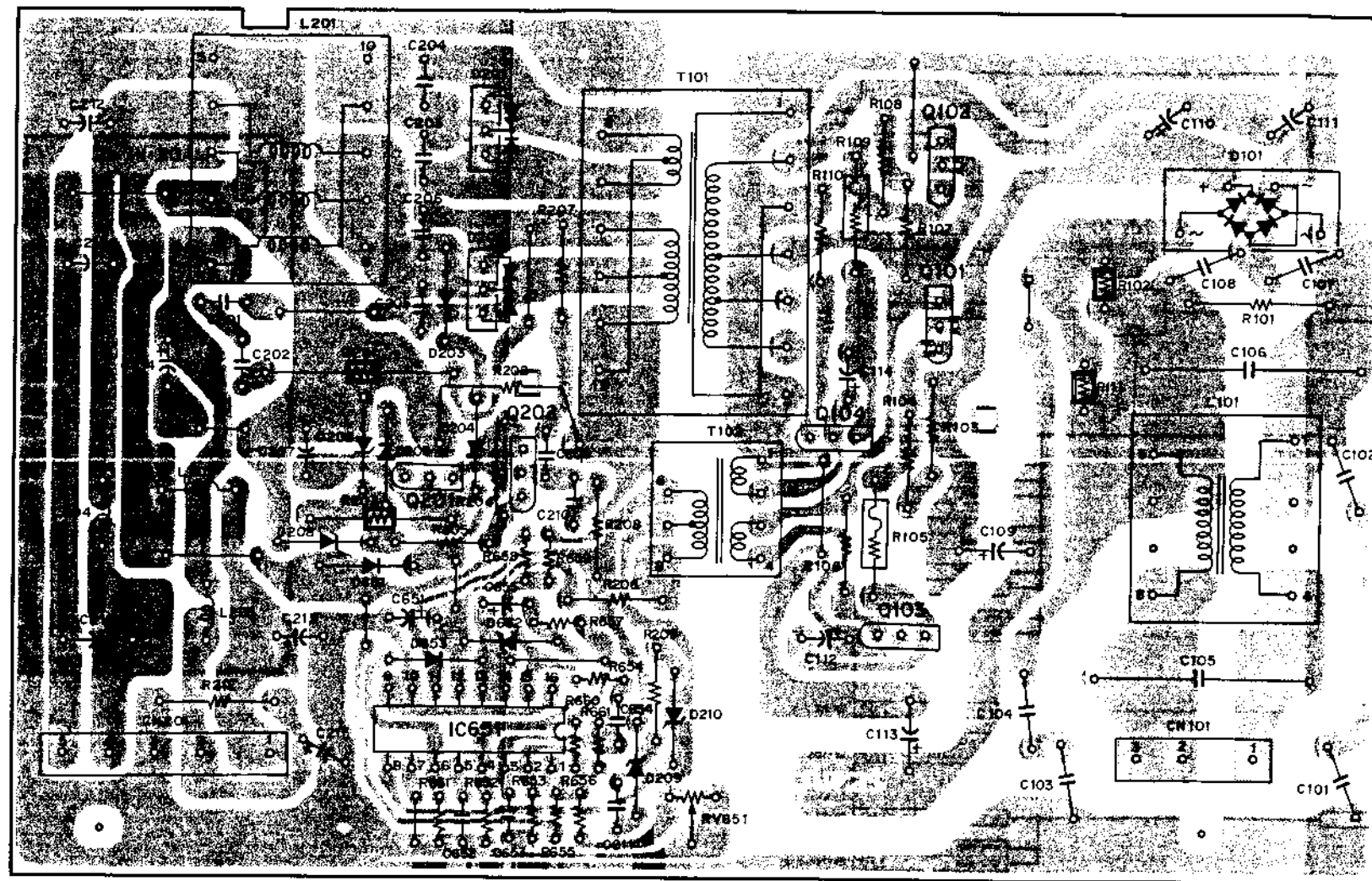


DC-31

-COMPONENT SIDE-

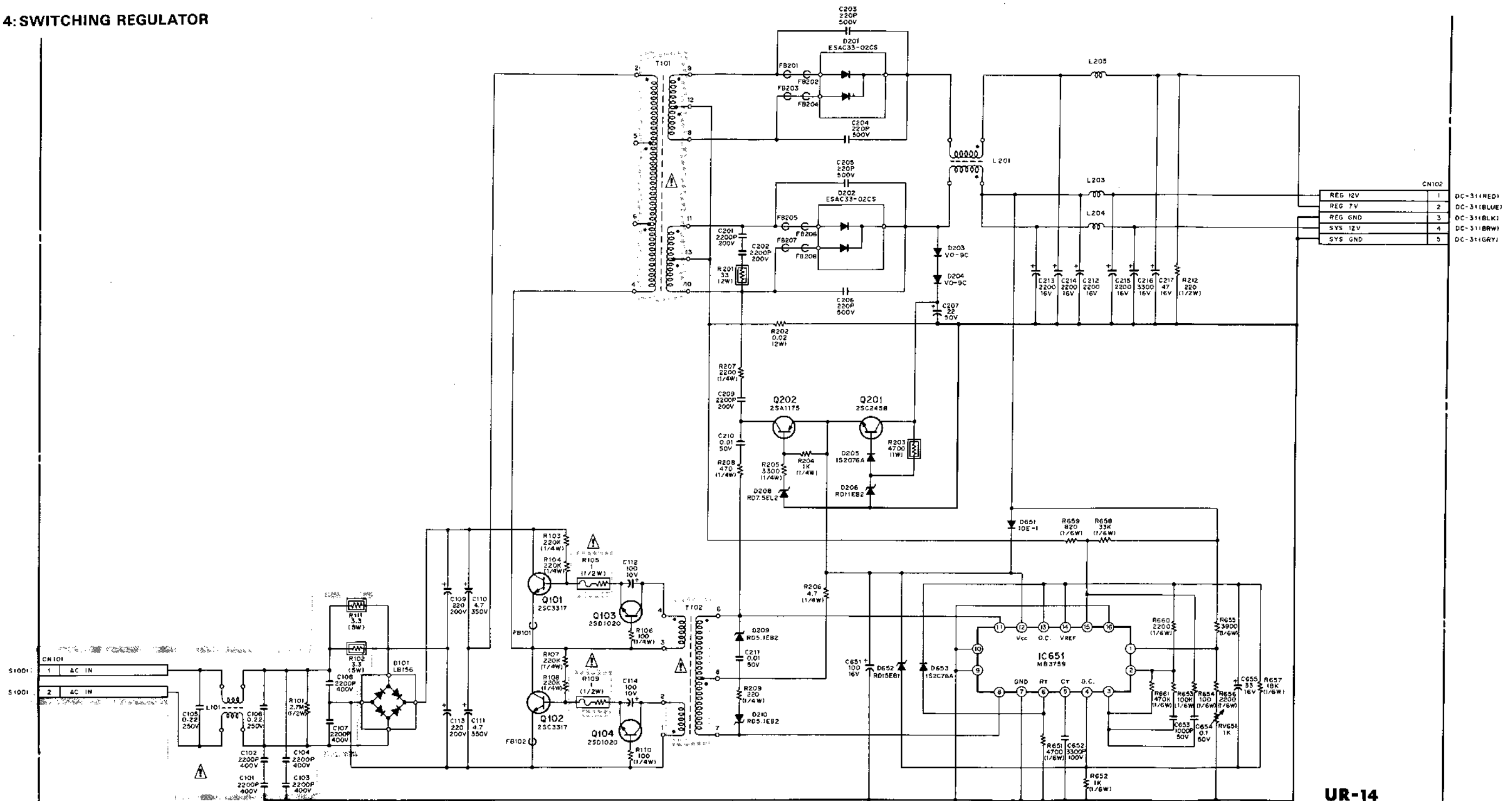
1-622-221-11
 VO-9500
 VP-9000

UR-14: SWITCHING REGULATOR



UR-14 -SOLDERING SIDE-
 1-618-009-12
 VO-9600
 VP-9000
 VP-7000

UR-14: SWITCHING REGULATOR

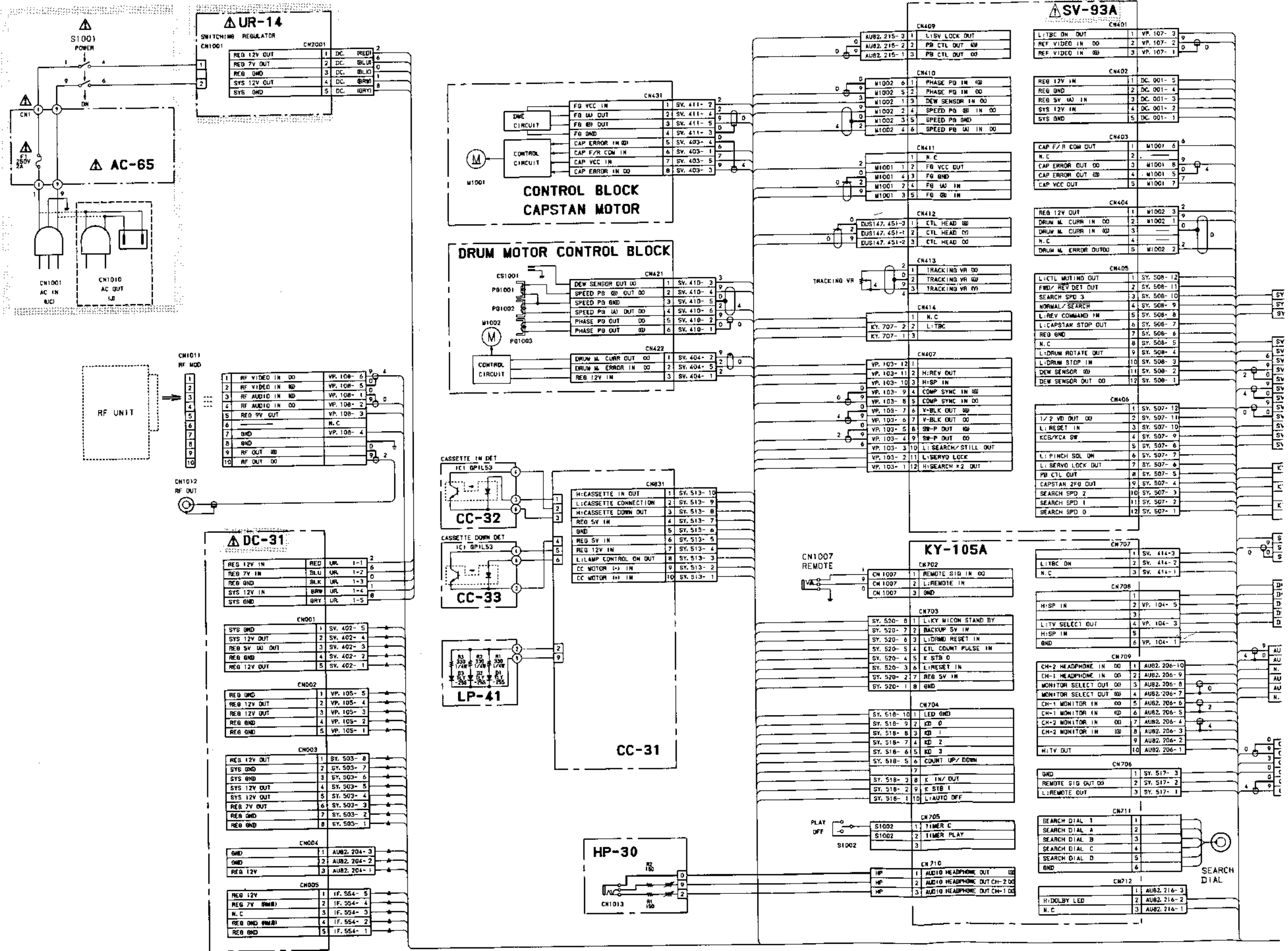


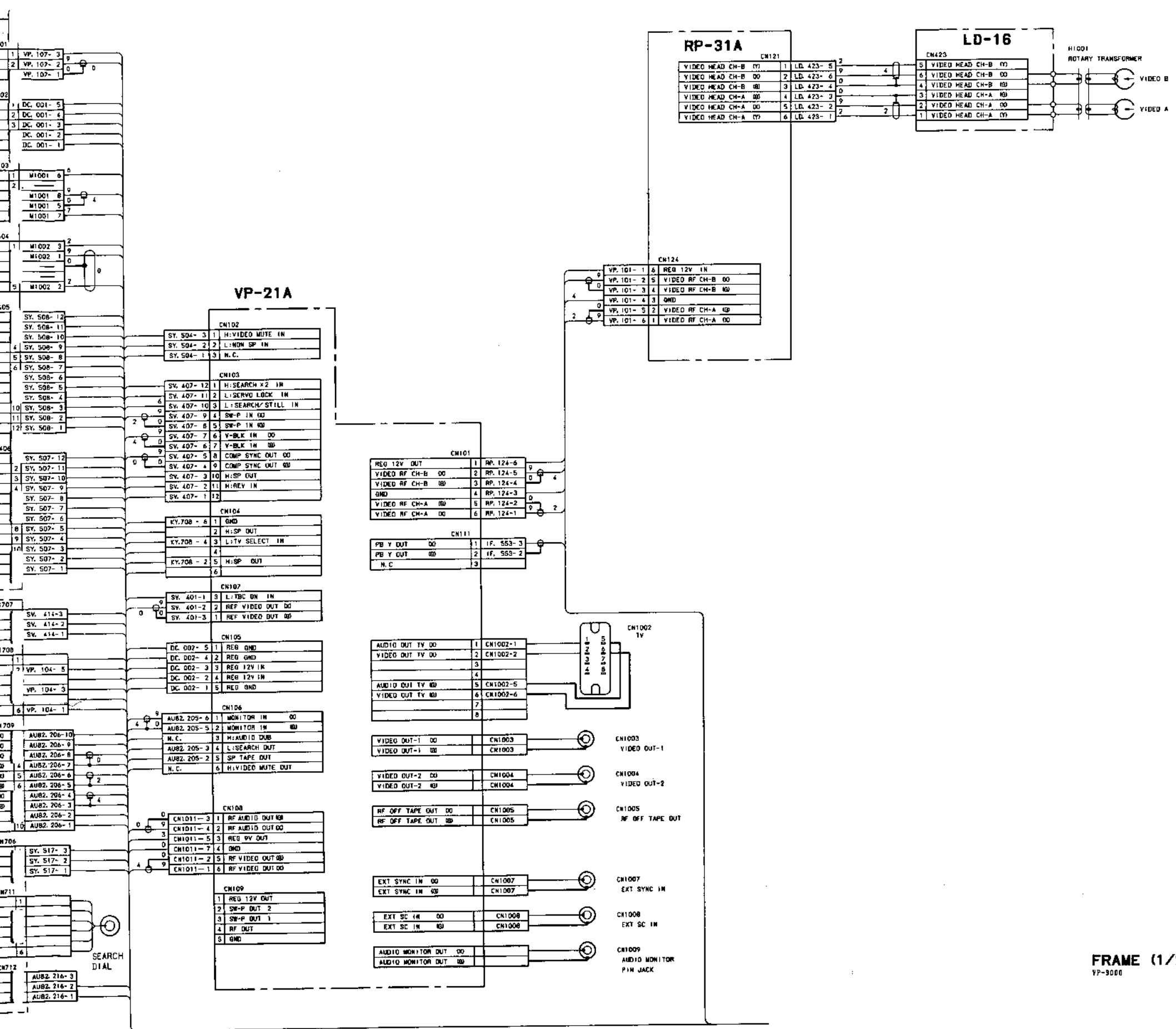
Terminal	Label	Color
1	REG 12V	DC-31(RED)
2	REG 7V	DC-31(BLUE)
3	REG GND	DC-31(BLK)
4	SYS 12V	DC-31(BRW)
5	SYS GND	DC-31(GRY)

UR-14
1-618-009-12
VO-9600
VP-9000
VP-7000

NOTE:
The shaded and -marked components are critical to safety.
Replace only with same components as specified.

注意1: 印及び で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

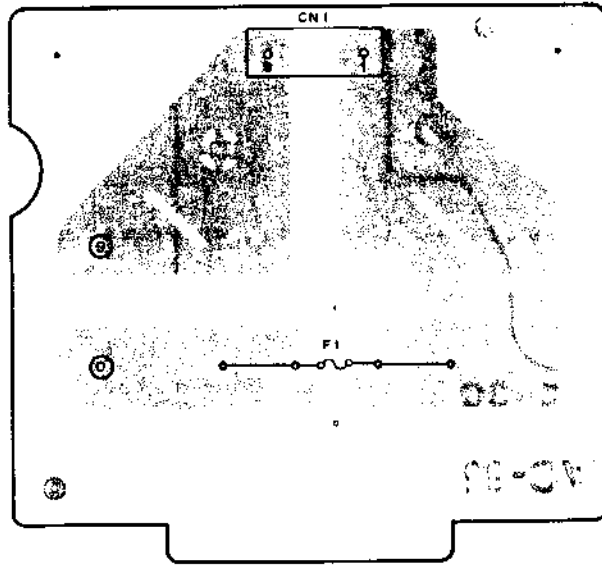




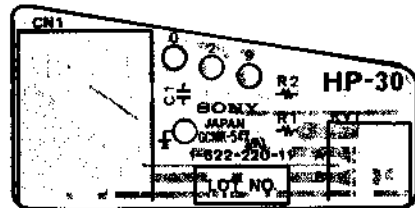
注意1: △印及び [] で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE:
The shaded and △-marked components are critical to safety.
Replace only with same components as specified.

AC-65: AC INPUT
HP-30: HEADPHONES



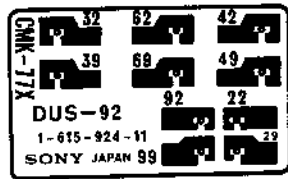
AC-65 - SOLDERING SIDE -
1-618-591-11
YD-9600
YP-5000
YP-7000



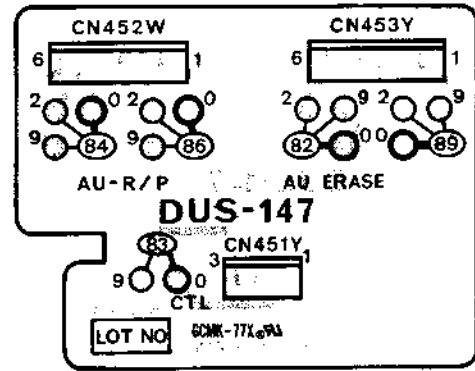
HP-30
- COMPONENT SIDE -
1-622-220-11
YD-9600
YP-5000
YP-7000

DUS-92: AUDIO CTL HEAD
 DUS-147: AUDIO CTL HEAD
 PT-9: REEL MOTOR DRIVER

EC-28: CTL HEAD
 LM-13: THREADING MOTOR
 PTC-30: SP,MISS REC. KCA DETECTOR
 PTC-33: FR STOP DETECTOR
 PTC-34: UNTHREADEND DETECTOR



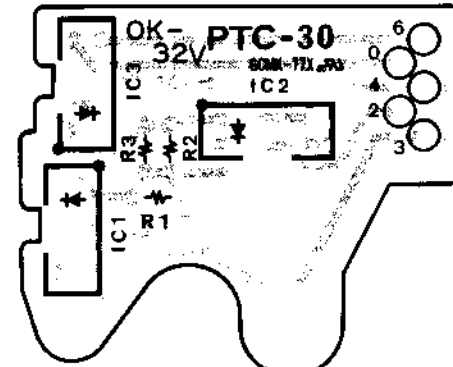
DUS-92
 -SOLDERING SIDE-
 1-615-924-11
 VO-9600
 VP-9000
 YP-7000



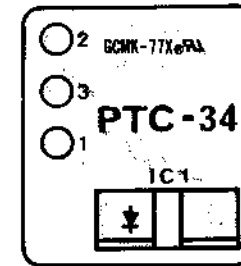
DUS-147
 -COMPONENT SIDE-
 1-622-281-11
 VO-9600
 VP-9000
 YP-7000



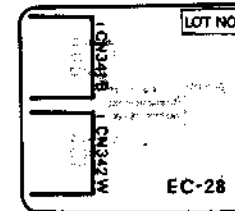
PT-9
 -SOLDERING SIDE-
 1-605-018-11
 VO-9600
 VP-9000
 YP-7000



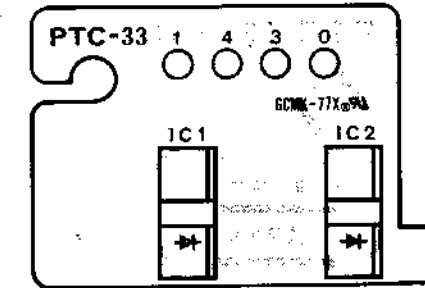
PTC-30
 -COMPONENT SIDE-
 1-622-260-11
 VO-9600
 VP-9000
 YP-7000



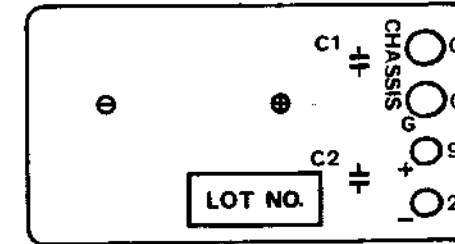
PTC-34
 -COMPONENT SIDE-
 1-622-259-11
 VO-9600
 VP-9000
 YP-7000



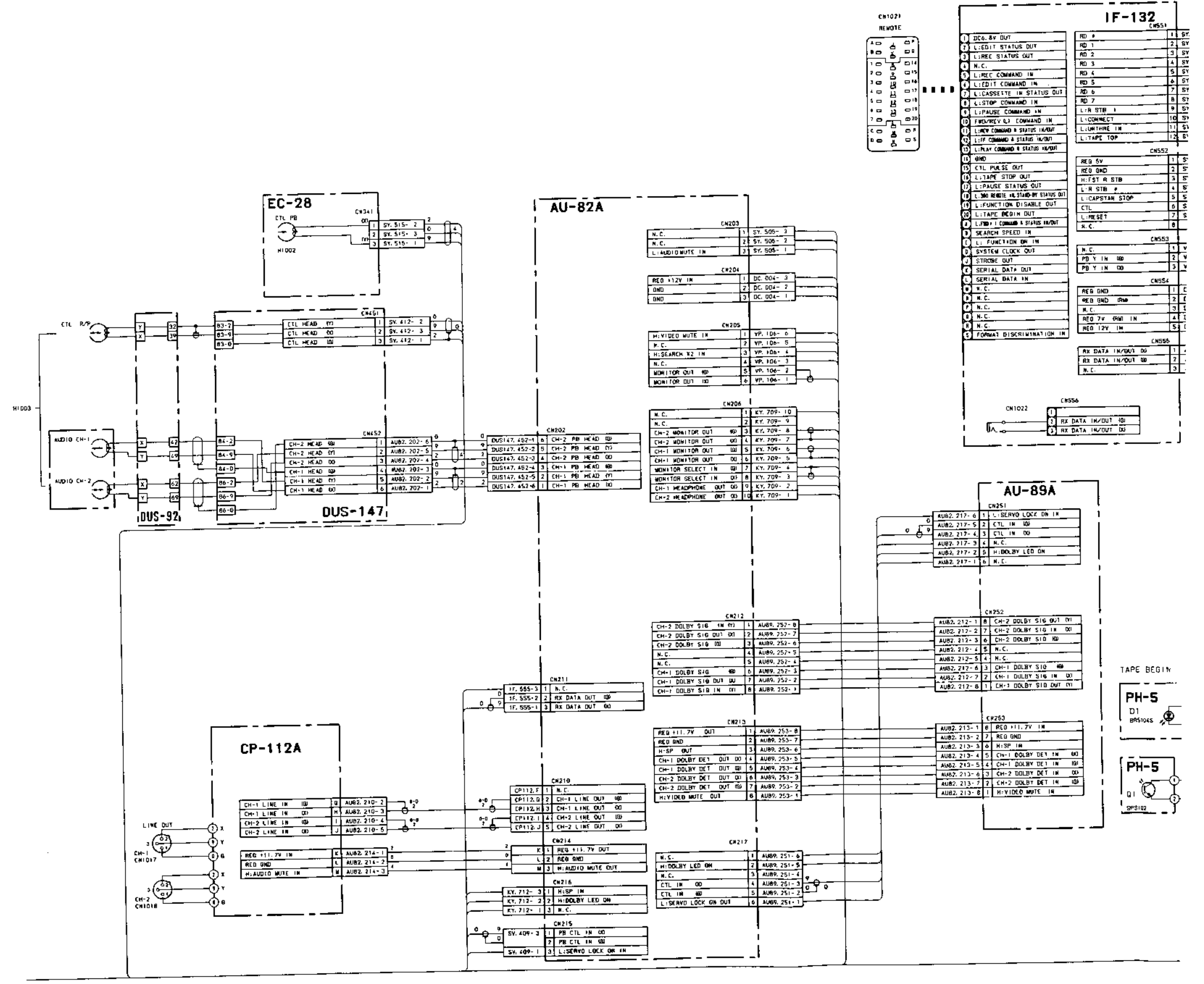
EC-28
 -COMPONENT SIDE-
 1-622-223-11
 VO-9600
 VP-9000
 YP-7000

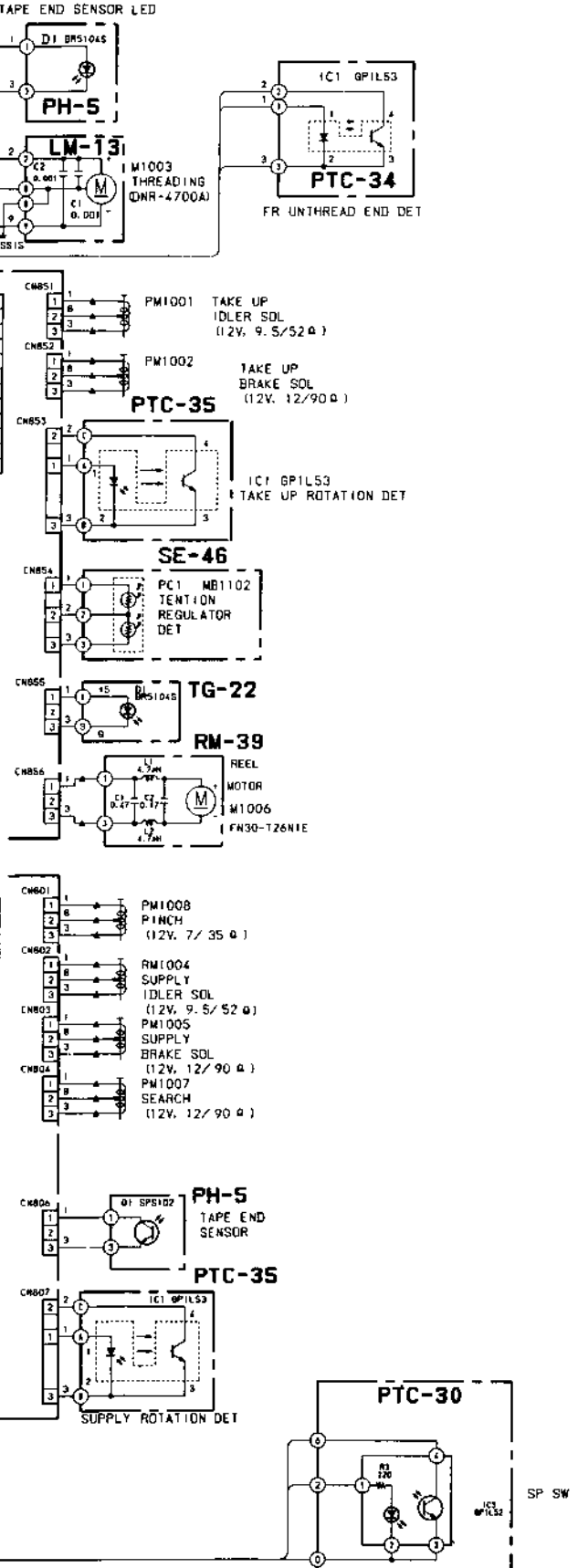
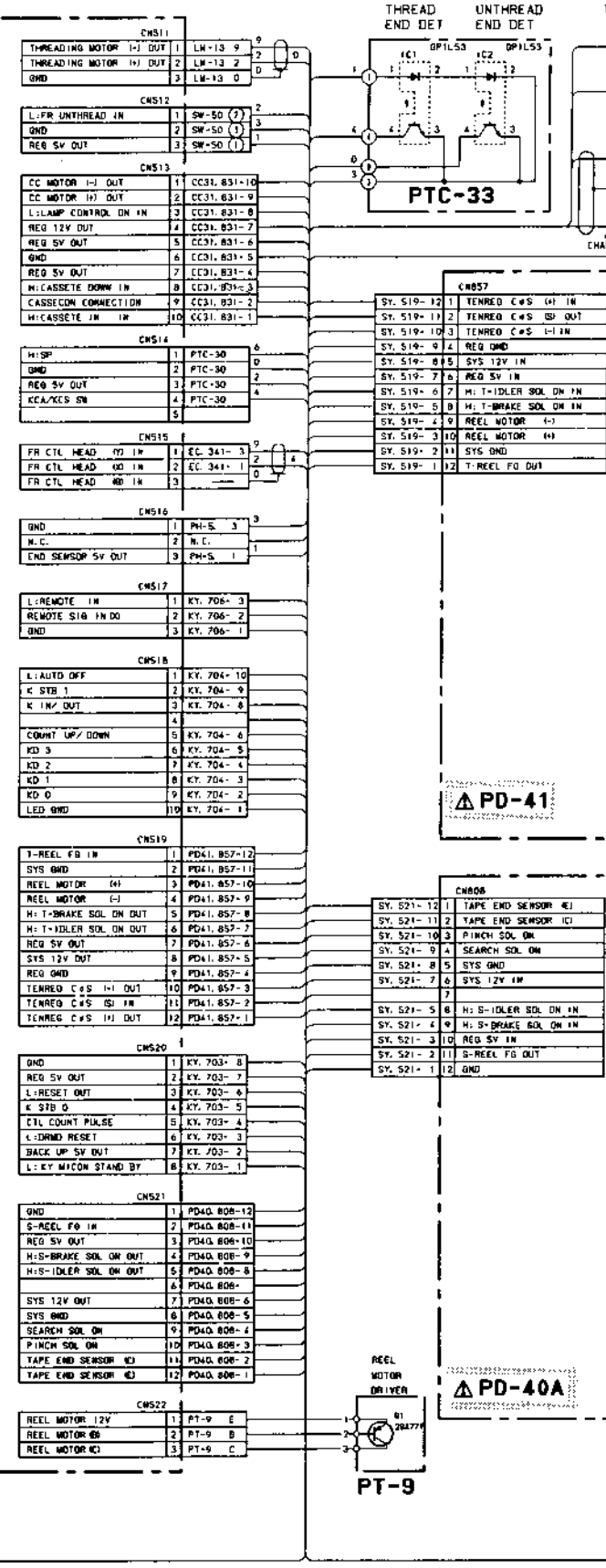
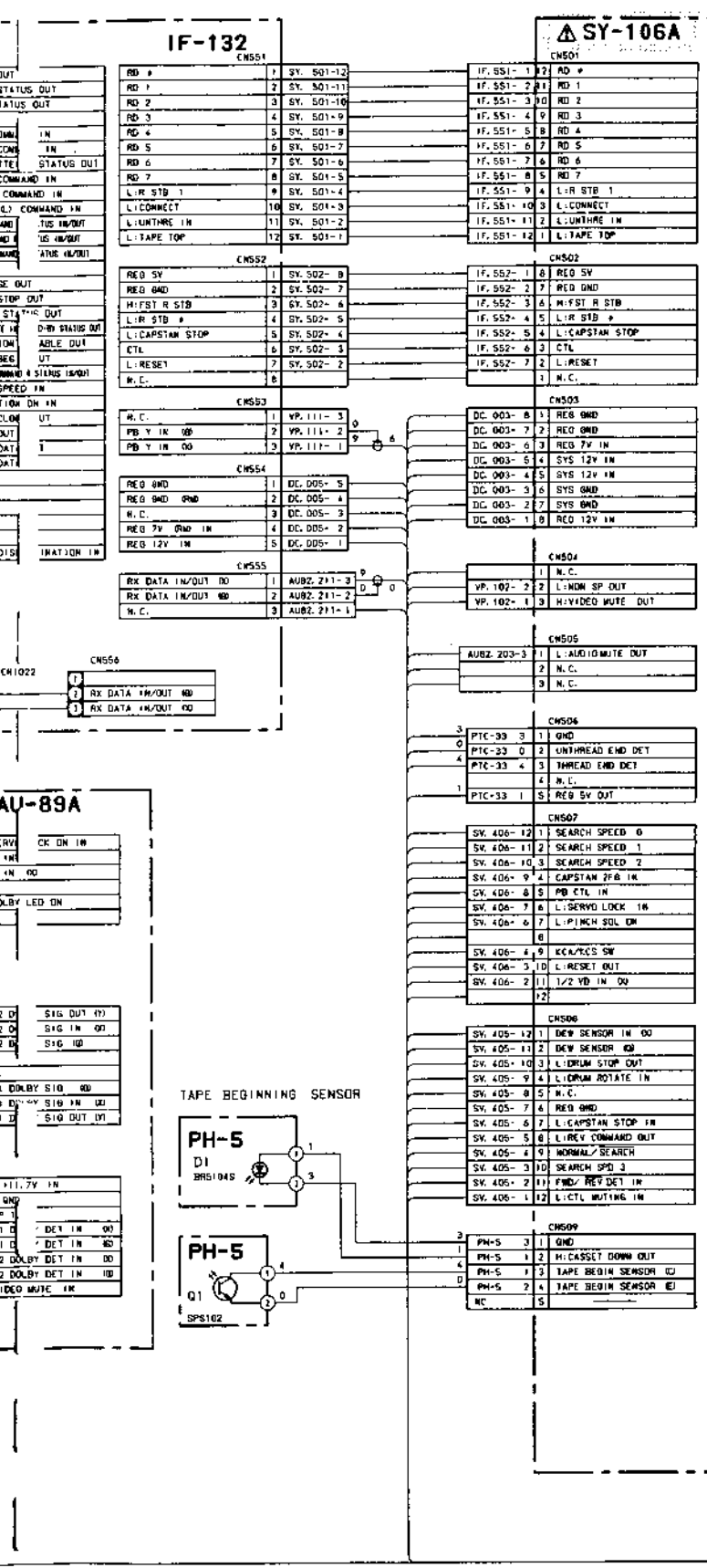


PTC-33
 -SOLDERING SIDE-
 1-622-258-11
 VO-9600
 VP-9000
 YP-7000



LM-13
 -COMPONENT SIDE-
 1-613-600-11
 VO-9600
 VP-9000
 YP-7000





注意1: △印及び●印で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。


NOTE:
The shaded and △ marked components are critical to safety.
Replace only with same components as specified.

SECTION 15

SPARE PARTS AND FIXTURE

15-1. PARTS INFORMATION

(1)

The shaded and -marked components are critical to safety. Replace only with same components as specified.

- (2) Replacement Parts supplied from the Sony Parts Center will sometimes have a different shape from the original parts. This is due to "improved parts and/or engineering changes" or "standardization of genuine parts". This manual's exploded views and electrical spare parts list indicate the part numbers of "the standardized genuine parts at the present". Regarding engineering part changes by the engineering department, refer to Sony service bulletins and service manual supplements.
- (3) The parts marked with "s" in the SP column of the exploded views and electrical spare parts lists are normally stocked for replacement purposes. The parts marked with "o" in the SP column are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.
- (4) Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- (5) (T) after a spring description is shown on the exploded views in order to indicate the number of spring turns required for the use. (Example) Spring, tension (24T); This spring must be cut at its 24th turn for actual use.

15-2. EXPLODED VIEW

. Exploded views are composed of the following blocks.

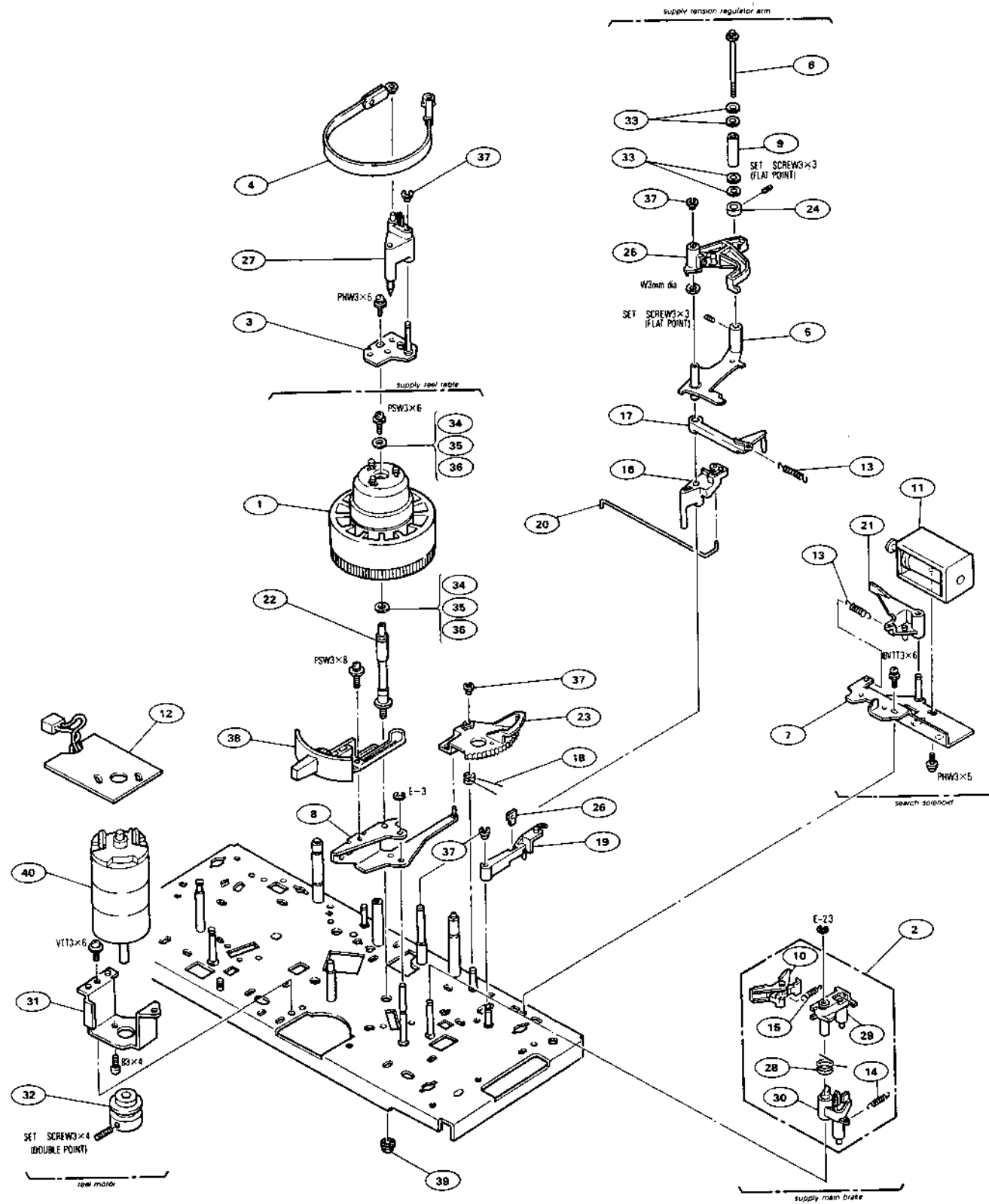
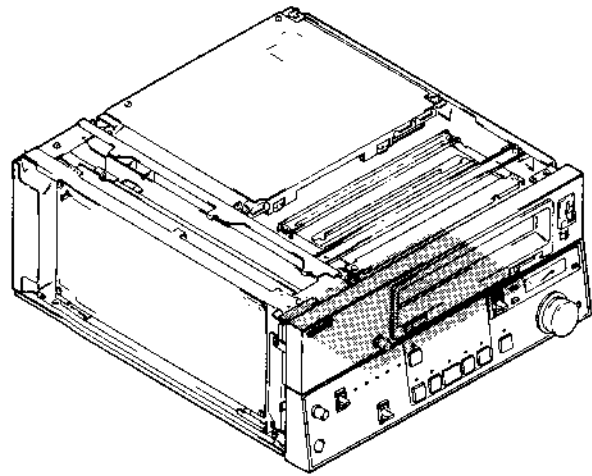
- (1) Reel Chassis (1), Supply Side
S Reel Table
S Tension Regulator Arm
Search Solenoid
S Main Brake
Reel Motor
- (2) Reel Chassis (2), Take-up Side
T Reel Table
FF/REW Idler
T Main brake
T Tension Regulator Arm
R Brake
- (3) Reel Chassis (3), Back Side
S Idler Solenoid
T Idler Solenoid
FF/REW Idler Pulley
S Brake Solenoid
T Brake Solenoid
- (4) Threading Ring Block
Threading Ring
Gear Box
T Correction Guide
Tape Beginning Sensor
FR Detector
- (5) Threading Arm
T Drawer Arm
S Drawer Arm
S Drawer Roller
Drawer Lever
- (6) Drum and Capstan Blocks
Head Drum
Capstan Motor
Audio/ CTL Head
Tape Guides

- (7) Erase Head Base
 - Erase Head Base
 - S Guard
- (8) Pinch Lever and Pinch Solenoid Blocks
 - Pinch Lever
 - Pinch Roller Pre-set Cam
 - Pinch Solenoid
- (9) Cassette-up Compartment Block
- (10) Function Control
 - Function Control Board
- (11) Front Panel Block
 - Ornamental Front Panel
 - Key Top
- (12) Chassis Block (1), Left Side
 - Printed Circuit Boards
- (13) Chassis Block (2), Back Side
 - Printed Circuit Boards
 - Connector Panel for Video Signal
- (14) Level Control Panel
 - Meter Panel
 - Headphone Block
- (15) Switching Regulator
- (16) Connector Panel for Audio Signal
- (17) Chassis Block (3), Bottom
 - Printed Circuit Boards
- (18) Ornamental Panel Block
 - U Case
 - Bottom Plate

REEL CHASSIS (1)

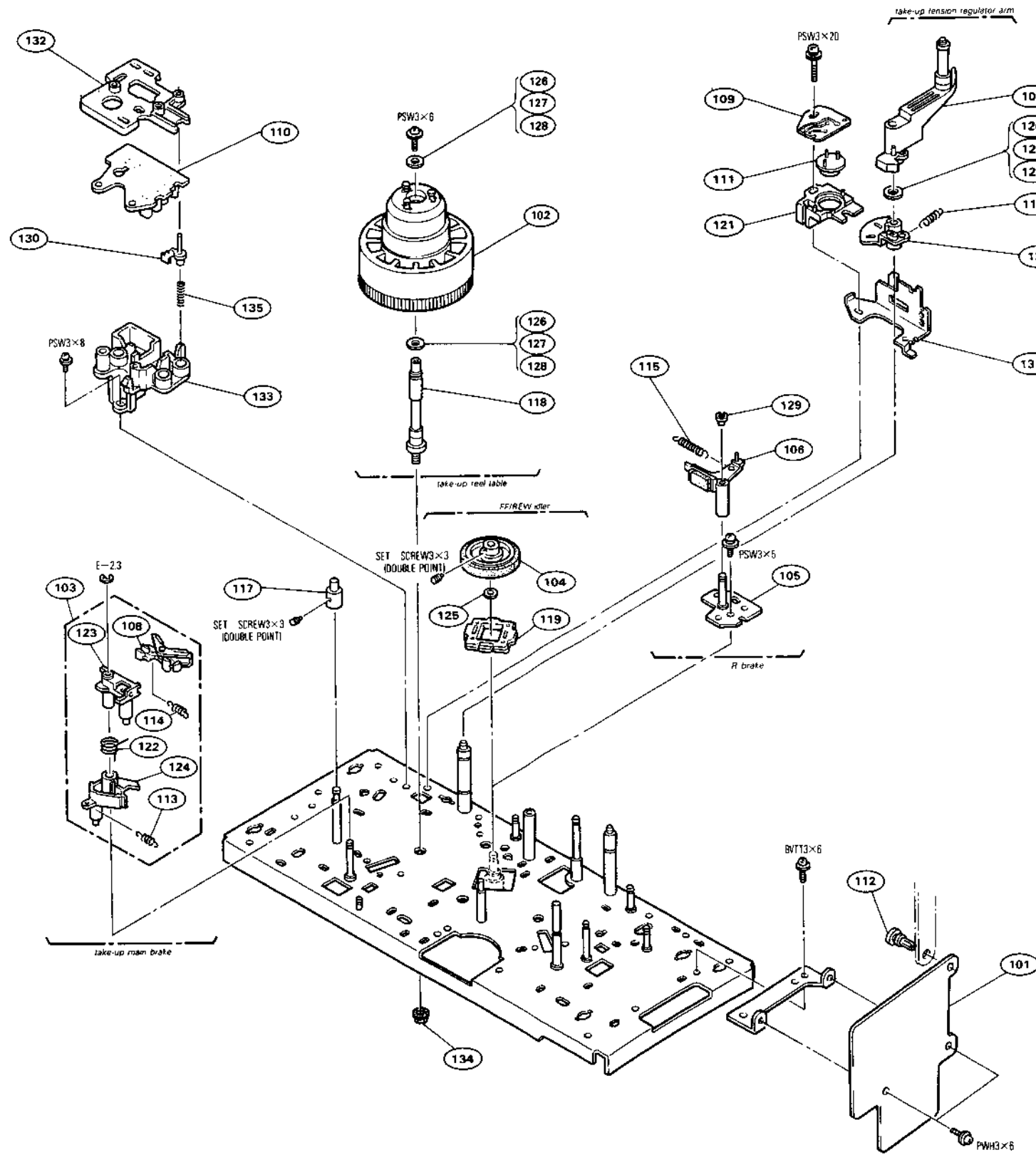
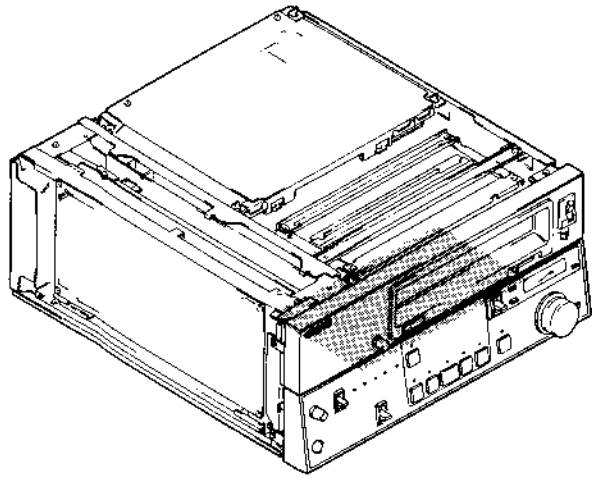
REEL CHASSIS (1)

REEL CHASSIS (1), SUPPLY SIDE



No.	Part No.	SP	Description
1	A-6739-016-C	s	TABLE ASSY, REEL
2	A-6741-038-B	s	BRAKE ASSY, MAIN
3	X-3668-706-0	o	BASE ASSY, S TENSION REGULATOR
4	X-3668-707-0	s	BAND ASSY, S TENSION REGULATOR
5	X-3668-708-0	s	ARM(A)ASSY, S TENSION REGULATOR
6	X-3668-709-0	s	SHAFT (1) ASSY, ROLLER
7	X-3668-717-0	o	BASE ASSY, SEARCH
8	X-3668-725-0	o	ARM (C) ASSY, SKEW
9	X-3668-727-0	s	GUIDE ASS'Y, TAPE
10	X-3668-749-0	s	HOLDER ASSY, LINING
11	1-454-417-31	s	SOLENOID, PLUNGER
12	1-618-873-11	o	PRINTED CIRCUIT BOARD, RM-39
13	3-534-238-XX	s	SPRING, TENSION (23T)
14	3-535-369-XX	s	SPRING, TENSION (12T)
15	3-548-124-00	s	SPRING, TENSION
16	3-668-787-02		ARM, S DETECTION
17	3-668-794-00	o	ARM (A), SKEW
18	3-668-795-00	s	SPRING
19	3-668-797-00	o	ARM, SKEW LOCK
20	3-668-804-00	s	LINK, DETECTION TENSION
21	3-668-808-00	s	ARM, FWD, SEARCH
22	3-668-827-00	o	SHAFT (S), REEL
23	3-668-835-00	s	ARM (B), SKEW
24	3-668-874-00	s	FLANGE (1), LOWER
25	3-668-936-00	s	ARM (B), S TENSION REGULATOR
26	3-668-937-00	s	CLAW, SKEW LOCK
27	3-668-939-00	o	ARM, BAND LOCK
28	3-668-966-00	s	SPRING
29	3-668-970-00	o	ARM, BRAKE
30	3-668-971-00	o	ARM, BRAKE RELEASE
31	3-672-743-01	o	BRACKET, MOTOR
32	3-672-744-01	s	PULLEY (R), MOTOR
33	3-701-438-01	s	WASHER, POLY 2.5MM DIA., 0.25T
34	3-701-444-01	s	WASHER, POLY 6MM DIA., 0.13T
35	3-701-444-11	s	WASHER, POLY 6MM DIA., 0.25T
36	3-701-444-21	s	WASHER, POLY 6MM DIA., 0.50T
37	3-703-074-00	s	CAP 3, SHAFT
38	3-718-337-01	s	LEVER, SKEW
39	4-304-749-00	o	NUT, FLANGE
40	8-835-178-01	s	MOTOR, DC FN30-T26N1E

REEL CHASSIS (2), TAKE-UP SIDE

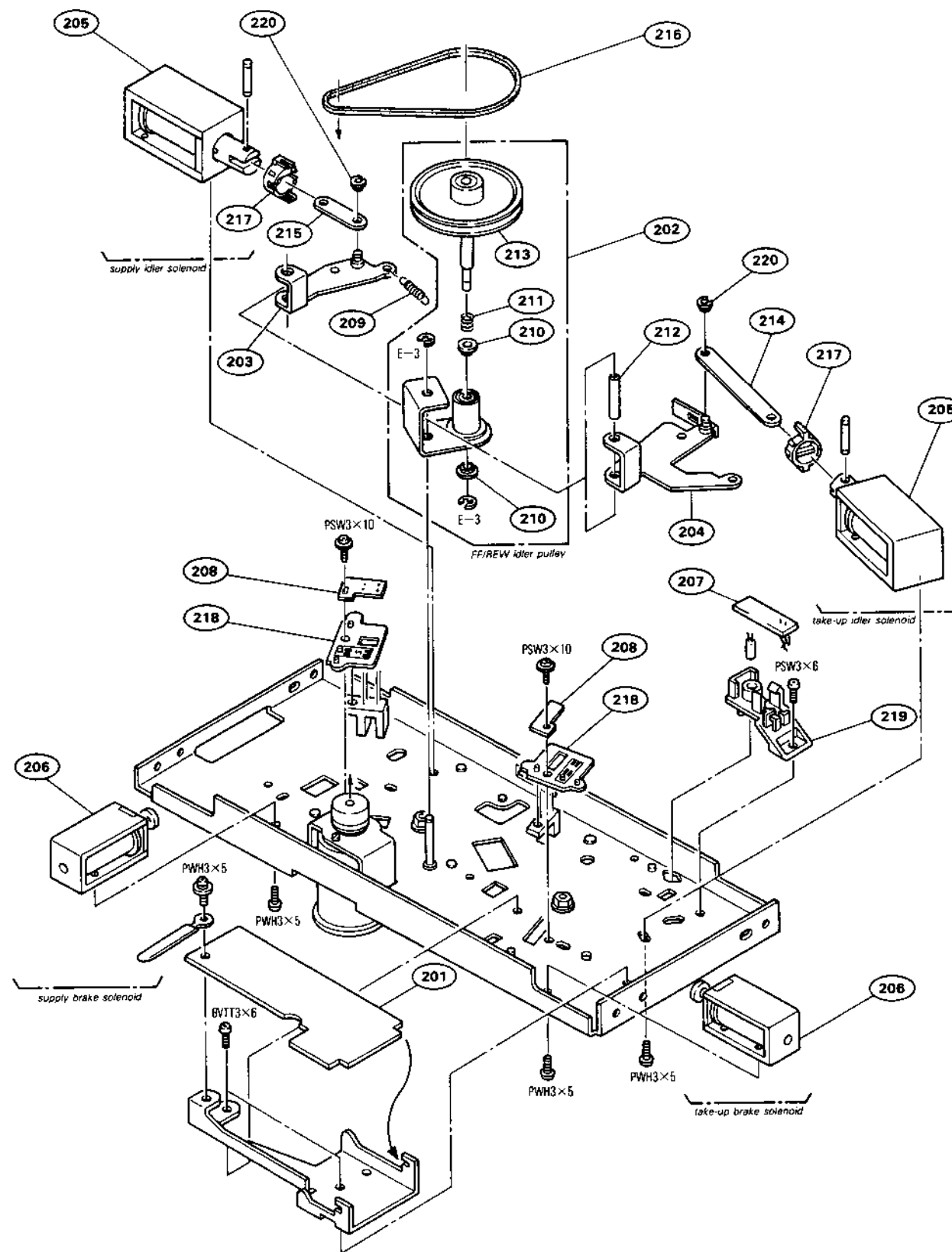
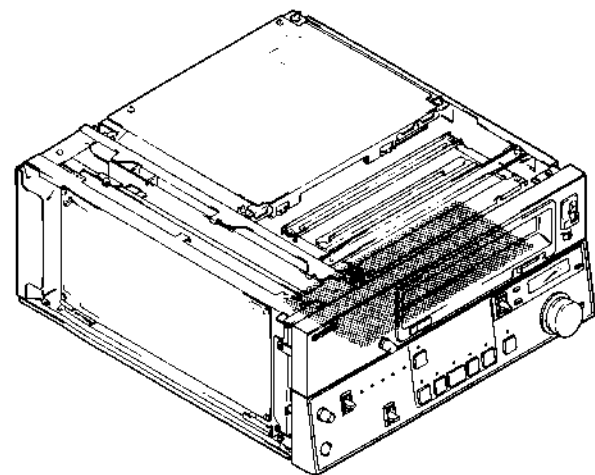


No.	Part No.	SP	Description
101	A-6725-569-A	o	MOUNTED CIRCUIT BOARD, PD-40
102	A-6739-016-C	s	TABLE ASS'Y, REEL
103	A-6741-038-B	s	BRAKE ASS'Y, MAIN
104	X-3646-026-0	s	IDLER ASS'Y, FF
105	X-3668-705-0	o	BASE ASS'Y, R BRAKE
106	X-3668-737-0	s	BRAKE ASS'Y, R
107	X-3668-738-0	s	ARM ASS'Y, T TENSION REGULATOR
108	X-3668-749-0	s	HOLDER ASS'Y, LINING
109	1-618-599-11	o	PRINTED CIRCUIT BOARD, SE-46
110	1-622-260-11	o	PRINTED CIRCUIT BOARD, PTC-30
111	1-806-232-21	s	DETECTOR MB-1102/S.N
112	2-382-416-01	o	SUPPORT, PC
113	3-535-369-XK	s	SPRING, TENSION (12T)
114	3-548-124-00	s	SPRING, TENSION
115	3-549-861-00	s	SPRING, TENSION
116	3-642-427-00	s	SPRING, TENSION
117	3-668-031-00	o	RETAINER (UPPER), CASSETTE
118	3-668-766-00	o	SHAFT (T), REEL
119	3-668-780-00	o	CUSHION, IDLER
120	3-668-788-00	s	ART, T DETECTION
121	3-668-789-00	o	HOLDER, BRIDGE, PHOTO
122	3-668-966-00	s	SPRING
123	3-668-970-00	o	ARM, BRAKE
124	3-668-971-00	o	ARM, BRAKE RELEASE
125	3-701-441-21	s	WASHER, POLY 4MM DIA., 0.50T
126	3-701-444-01	s	WASHER, POLY 6MM DIA., 0.13T
127	3-701-444-11	s	WASHER, POLY 6MM DIA., 0.25T
128	3-701-444-21	s	WASHER, POLY 6MM DIA., 0.50T
129	3-703-074-00	s	CAP 3, SHAFT
130	3-718-307-01	s	ACTUATOR, TRC
131	3-718-326-01	o	STOPPER (SP)
132	3-718-342-01	o	TRC-BOX (UPPER)
133	3-718-343-01	o	TRC-BOX (LOWER)
134	4-304-749-00	o	NUT, FLANGE
135	4-858-779-00	s	SPRING, COMPRESSION

REEL CHASSIS (3)

REEL CHASSIS (3)

REEL CHASSIS (3), BACK SIDE

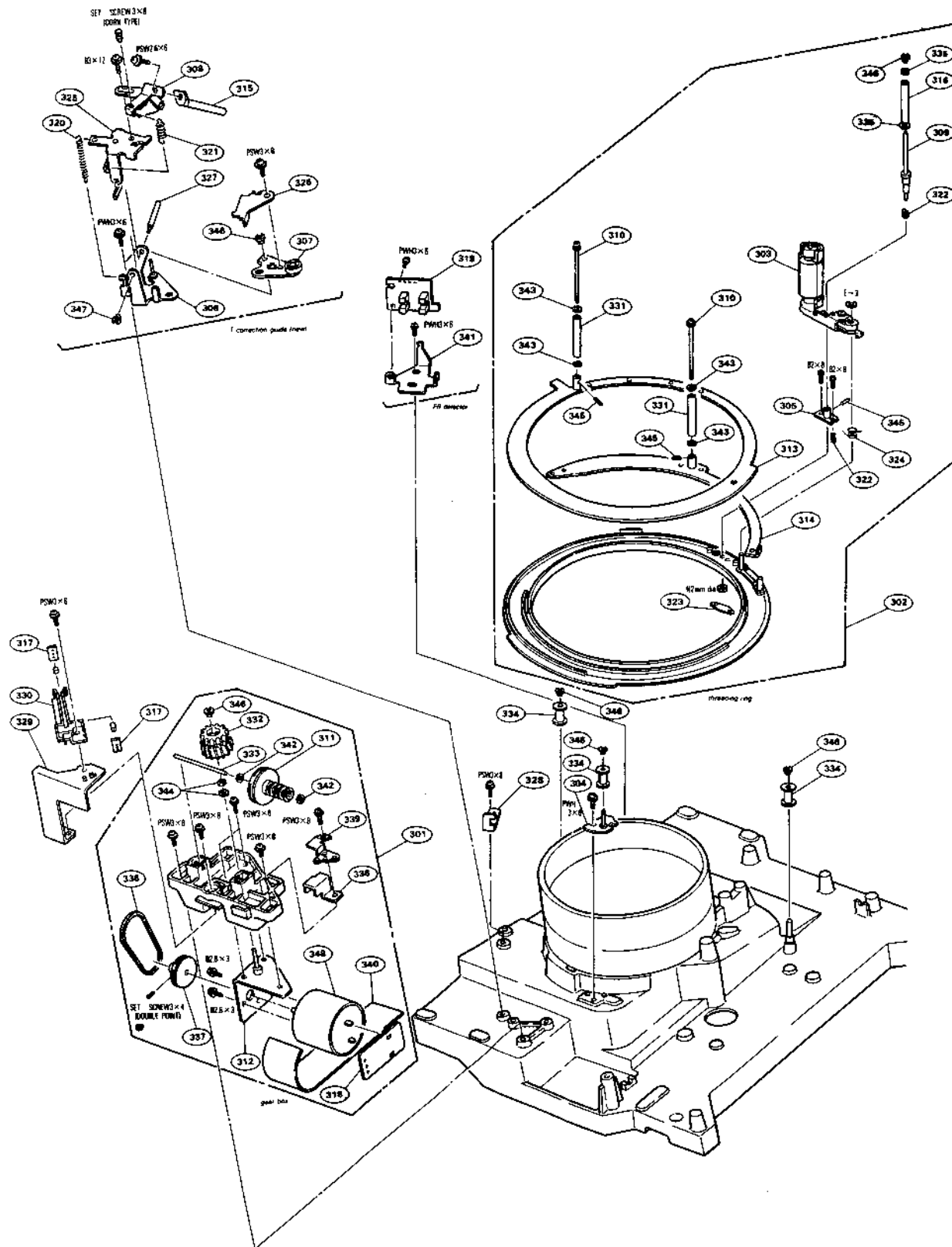
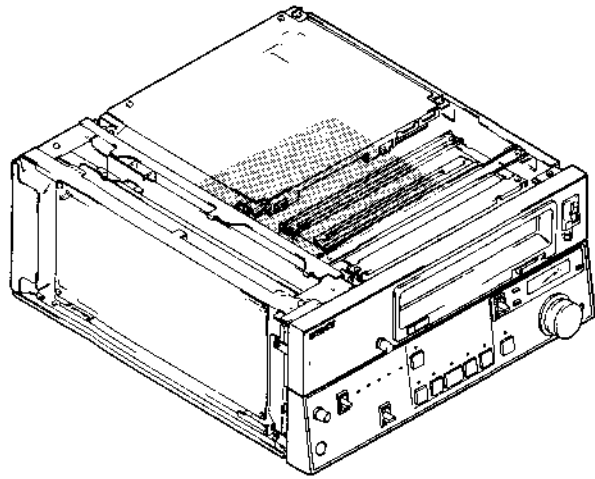


No.	Part No.	SP	Description
201	A-6725-570-A	o	MOUNTED CIRCUIT BOARD, PD-41
202	A-6740-069-B	s	PULLEY BLOCK, ASS'Y, IDLER
203	X-3668-703-0	o	LEVER ASS'Y, S
204	X-3668-704-0	o	LEVER ASS'Y, T
205	1-454-415-11	s	SOLENOID, PLUNGER
206	1-454-417-31	s	SOLENOID, PLUNGER
207	1-618-597-11	o	PRINTED CIRCUIT BOARD, TG-22
208	1-622-218-11	o	PRINTED CIRCUIT BOARD, PTC-35
209	3-437-452-00	s	SPRING, TENSION
210	3-650-512-00	s	COLLAR, (A)
211	3-651-572-00	s	SPRING, COMPRESSION
212	3-668-048-11	o	SPACER (DIA. 4x20)
213	3-668-772-00	s	SHAFT, IDLER PULLEY
214	3-668-781-00	o	JOINT, T
215	3-668-782-00	o	JOINT, S
216	3-668-785-00	s	BELT (67x2)
217	3-668-826-00	s	RETAINER, PIN, SOLENOID
218	3-668-828-02	o	BRACKET, PS
219	3-672-752-01	o	HOLDER, LED
220	3-703-074-00	s	CAP 3, SHAFT

THREADING RING BLOCK

THREADING RING BLOCK

THREADING RING BLOCK

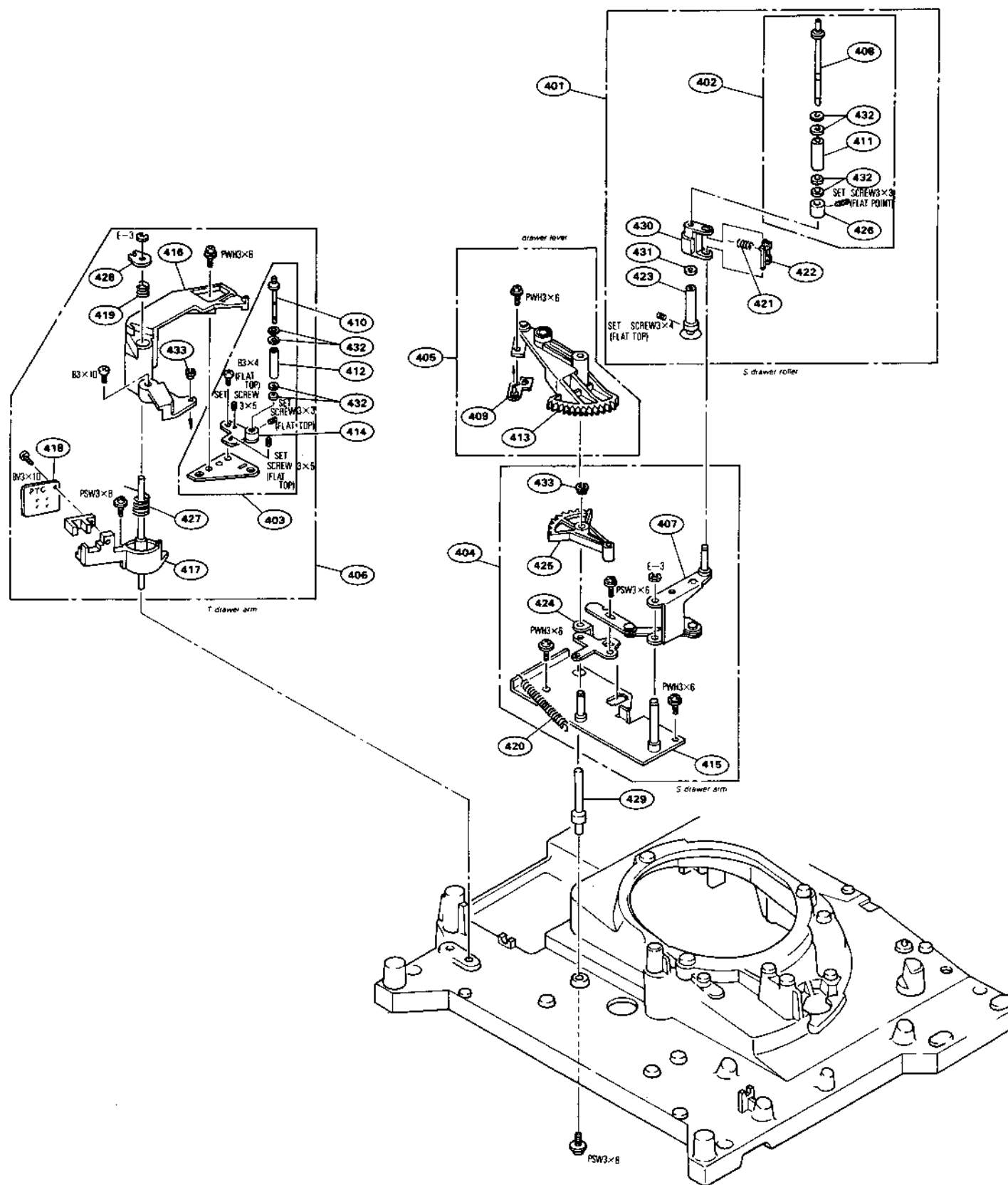
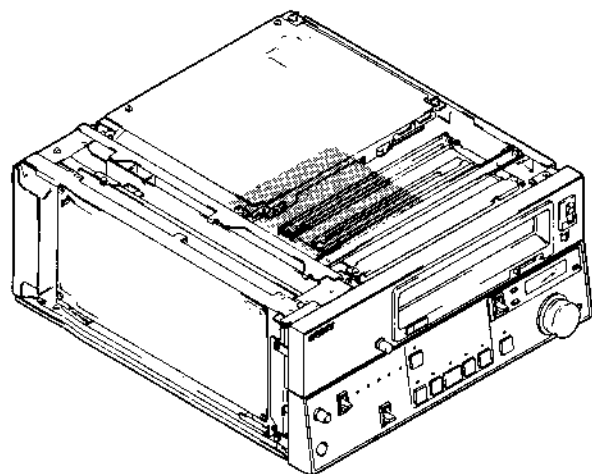


No.	Part No.	SP	Description
301	A-6750-219-A	8	BOX BLOCK ASS'Y, GEAR
302	A-6750-220-A	8	RING BLOCK ASS'Y, MAIN
303	A-6750-226-A	8	PINCH ROLLER BLOCK ASS'Y
304	X-3668-719-0	0	ROLLER ASS'Y, RING
305	X-3668-720-0	0	BASE ASS'Y, ROLLER, PRECEDING
306	X-3668-721-0	0	CHASSIS ASS'Y, GUIDE
307	X-3668-722-0	8	LOCKER ASS'Y, FR
308	X-3668-723-2	0	ARM ASS'Y, GUIDE, T CORRECTION
309	X-3668-724-3	8	SHAFT ASS'Y, ROLLER, PRECEDING
310	X-3668-733-0	8	SHAFT ASS'Y, SR GUIDE
311	X-3668-743-0	8	PULLEY ASS'Y, WORM
312	X-3672-704-1	0	BRACKET ASS'Y, MOTOR
313	X-3672-710-1	0	RING (UPPER) ASS'Y, SUB
314	X-3672-711-1	0	RING (LOWER) ASS'Y, SUB
315	X-3672-718-2	8	SHAFT ASS'Y, GUIDE
316	X-3718-303-1	8	GUIDE ASS'Y, (T), TAPE
317	1-603-737-00	0	PRINTED CIRCUIT BOARD, FR-5
318	1-618-600-11	0	PRINTED CIRCUIT BOARD, LM-13
319	1-622-258-11	0	PRINTED CIRCUIT BOARD, PTC-33
320	3-143-067-00	8	SPRING, TENSION
321	3-437-289-00	8	SPRING, TENSION
322	3-634-196-00	8	SPRING
323	3-668-743-00	0	NUT, PLATE, ROLLER, PRECEDING
324	3-668-745-00	8	SPRING
325	3-668-749-02	0	ARM (A), GUIDE, T CORRECTION
326	3-668-753-00	0	PLATE, ADJUSTMENT, FR LOCKER
327	3-668-754-00	0	SHAFT, GUIDE ARM, T CORRECTION
328	3-668-755-00	0	PLATE, STOPPER SR
329	3-668-900-00	0	BRACKET, T SENSOR
330	3-668-901-00	8	HOLDER, T PHOTO
331	3-668-919-00	8	ROLLER, SR GUIDE
332	3-668-947-00	8	PINION, L
333	3-668-948-00	0	SHAFT WORM
334	3-668-963-00	8	ROLLER, RING
335	3-669-926-01	8	WASHER (3), THRUST
336	3-669-960-00	0	RETAINER, SHAFT
337	3-672-736-01	8	PULLEY, LM
338	3-672-737-01	8	BELT SQUARE
339	3-672-738-01	0	PLATE GROUND SLED
340	3-672-739-01	0	BELT, LM SHIELD
341	3-672-790-01	0	BRACKET, FR DETECTION
342	3-701-437-21	8	WASHER, POLY 2MM DIA., 0.50T
343	3-701-438-11	8	WASHER, POLY 2.5MM DIA., 0.25T
344	3-701-439-21	8	WASHER, POLY 3MM DIA., 0.50T
345	3-701-505-00	8	SET SCREW, DOUBLE POINT 3x3
346	3-703-074-00	8	CAP 3, SHAFT
347	3-703-075-00	8	CAP 2, SHAFT
348	1-541-376-11	8	MOTOR, DC (DNR-4700A)

THREADING ARM

THREADING ARM

THREADING ARM

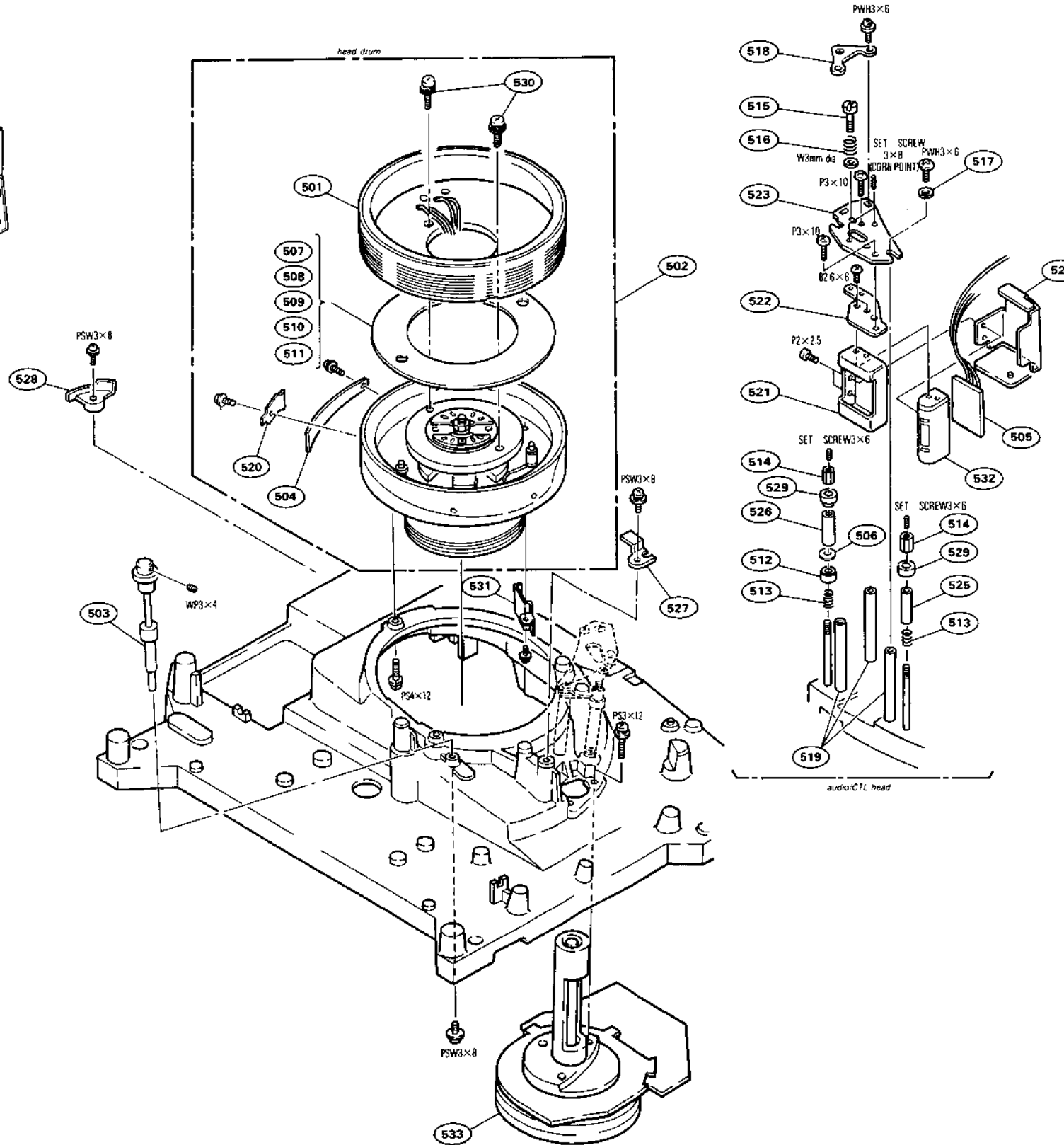
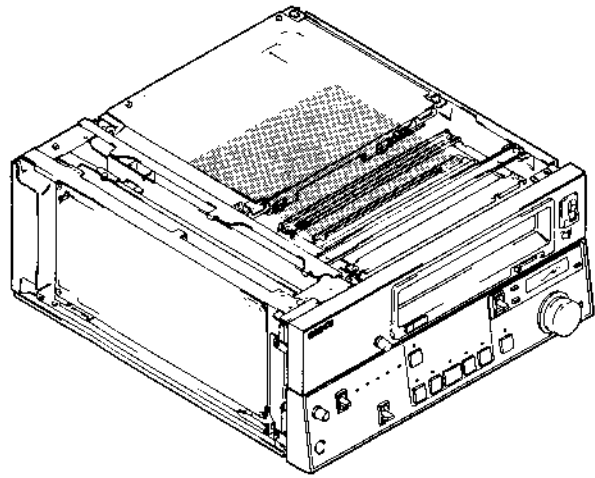


No.	Part No.	SP	Description
401	A-6746-021-C	•	ROLLER BLOCK ASS'Y, S DRAWER
402	A-6746-034-A	•	ROLLER BLOCK ASS'Y, (2) DRAWER
403	A-6746-045-A	•	ROLLER BLOCK ASS'Y, T GUIDE
404	A-6750-201-A	•	ARM BLOCK ASS'Y, S DRAWER
405	A-6750-202-A	•	LEVER BLOCK ASS'Y, DRAWER
406	A-6750-218-A	•	ARM BLOCK ASS'Y, T DRAWER
407	X-3668-711-0	•	ARM ASS'Y, S DRAWER
408	X-3668-712-3	•	SHAFT (2) ASS'Y, ROLLER
409	X-3668-713-0	•	LINK (B) ASS'Y, DRIVING
410	X-3668-716-0	•	SHAFT (3) ASS'Y, ROLLER
411	X-3668-718-0	•	GUIDE ASS'Y, TAPE
412	X-3668-727-0	•	GUIDE ASS'Y, TAPE
413	X-3668-729-0	•	LEVER ASS'Y, DRAWER
414	X-3672-705-1	•	PLATE ASS'Y, GUIDE, T
415	X-3672-706-1	•	BASE ASS'Y, S DRAWER ARM
416	X-3672-708-1	•	ARM ASS'Y, T DRAWER
417	X-3718-305-1	•	RITAINER ASS'Y, ARM, T DRAWER
418	1-622-259-11	•	PRINTED CIRCUIT BOARD, PTC-34
419	3-534-854-00	•	SPRING, COMPRESSION
420	3-540-506-00	•	SPRING, TENSION
421	3-644-718-00	•	SPRING, COMPRESSION
422	3-668-718-00	•	RETAINER, SPRING, S DRAWER
423	3-668-719-00	•	HOLDER (L), S GUIDE
424	3-668-720-00	•	LIMITER, S DRAWER
425	3-668-721-00	•	ARM, S DRIVING
426	3-668-724-00	•	FLANGE (2), LOWER
427	3-668-734-00	•	SPRING
428	3-668-735-00	•	RETAINER, SPRING
429	3-668-760-00	•	SHAFT, DRAWER LEVER
430	3-668-833-00	•	HOLDER (M), GUIDE, S
431	3-669-946-00	•	RING (P4), O
432	3-701-438-01	•	WASHER, POLY 2.5MM DIA., 0.13T
433	3-703-074-00	•	CAP 3, SHAFT

DRUM AND CAPSTAN BLOCKS

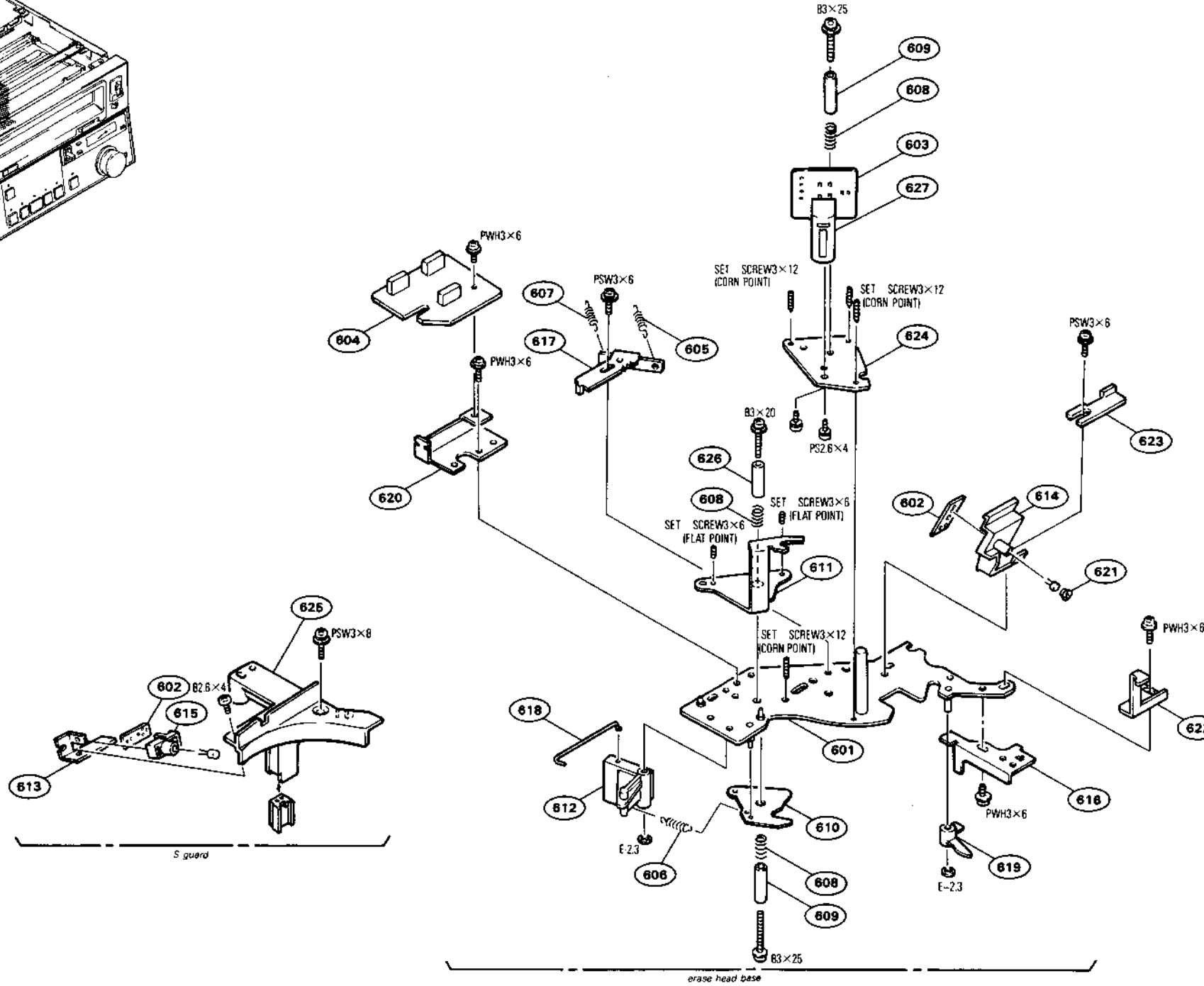
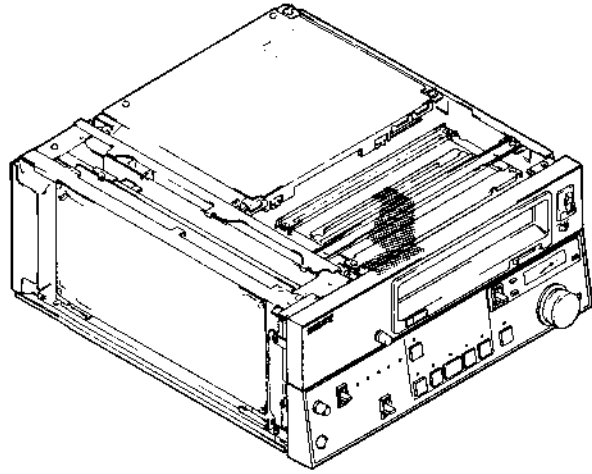
DRUM AND CAPSTAN BLOCKS

DRUM AND CAPSTAN BLOCKS



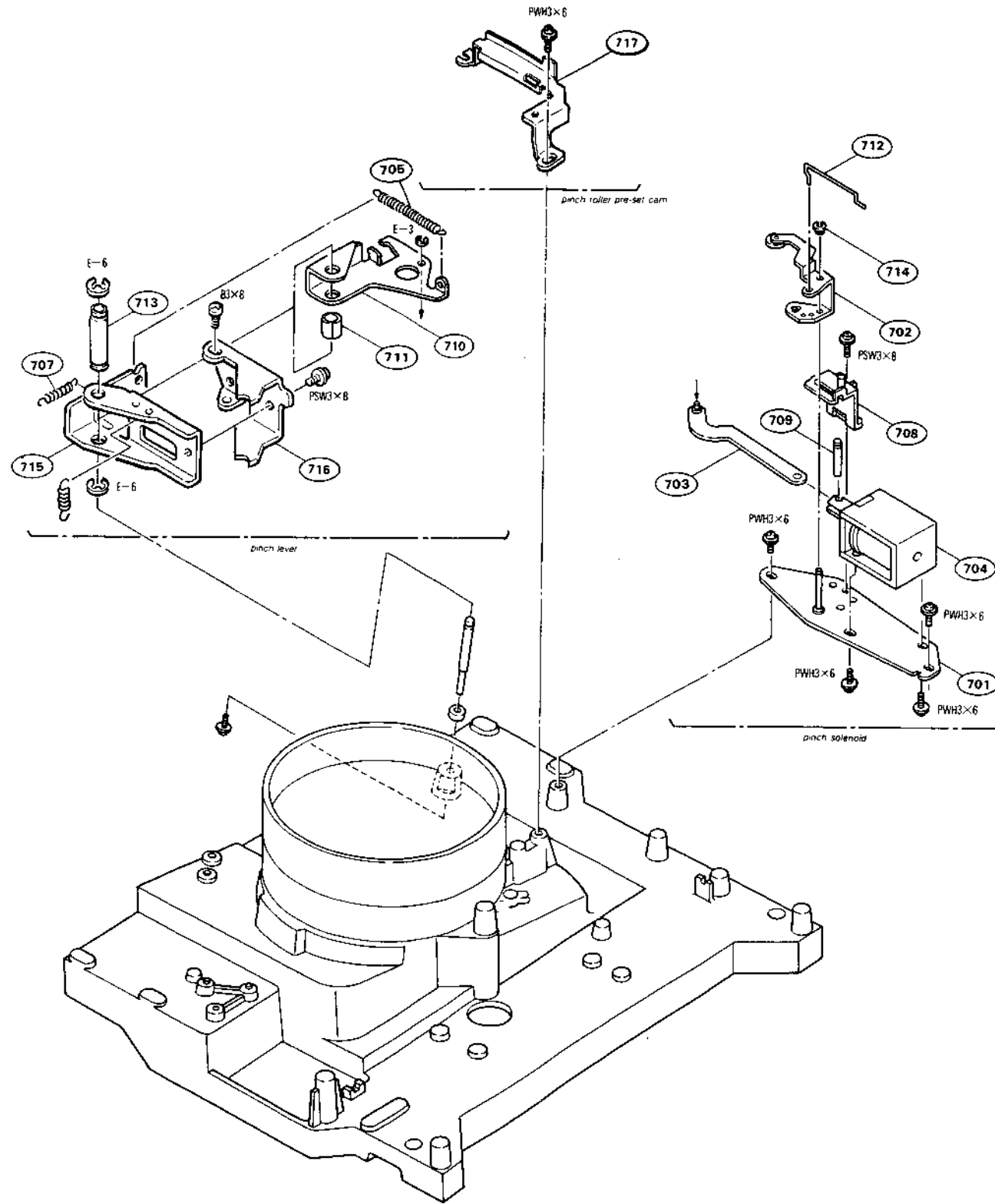
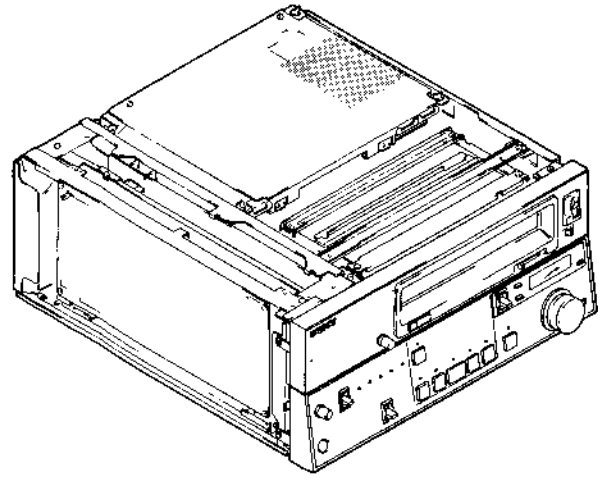
No.	Part No.	SP	Description
501	A-6709-602-A	s	UPPER DRUM ASS'Y, DUR-41-R
502	A-6709-605-A	s	HEAD DRUM ASS'Y, DUR-41A-R
503	A-6746-052-A	s	ROLLER ASS'Y, GUIDE, TAPE
504	1-586-633-00	s	DETECTOR, DEW
505	1-615-924-11	o	PRINTED CIRCUIT BOARD, DUS-92
506	3-534-329-11	s	WASHER, TAPE GUIDE
507	3-630-029-01	s	SPACER, FLANGE (0.01T)
508	3-630-029-11	s	SPACER, FLANGE (0.02T)
509	3-630-029-21	s	SPACER, FLANGE (0.05T)
510	3-630-029-31	s	SPACER, FLANGE (0.1T)
511	3-630-029-41	s	SPACER, FLANGE (0.03T)
512	3-641-612-00	s	GUIDE, TAPE
513	3-641-615-00	s	SPRING, COMPRESSION
514	3-641-616-00	s	NUT, TAPE GUIDE ADJUSTMENT
515	3-641-621-00	s	SCREW, HEAD ADJUSTMENT
516	3-641-622-00	s	SPRING, COMPRESSION
517	3-645-076-00	o	WASHER, M-REEL S
518	3-647-815-00	o	PLATE, ADJUSTMENT, CTL HEAD
519	3-647-816-00	o	POLE, SUPPORT, CTL BRACKET
520	3-655-631-00	o	TERMINAL, GRUND
521	3-655-675-02	o	CASE (F), AU
522	3-655-676-01	o	BRACKET (A), CTL HEAD
523	3-655-677-01	o	BRACKET (B), CTL HEAD
524	3-655-678-03	o	CASE (B), AU
525	3-672-730-01	s	TG-3
526	3-672-731-01	s	TG-4
527	3-672-762-01	o	PIN, DRUM
528	3-672-763-01	o	CAM, P OFFSET PREVENTION
529	3-688-807-01	s	FRANGE, TAPE GUIDE
530	3-703-467-01	s	SCREW
531	3-710-826-01	o	SHIELD, CN
532	8-825-578-41	s	HEAD, AUDIO PS264-5803
533	8-835-258-01	s	MOTOR, DC BHF-1915B

ERASE HEAD BASE



No.	Part No.	SP	Description
601	X-3668-728-0	o	DECK ASS'Y, E HEAD
602	1-603-737-00	o	PRINTED CIRCUIT BOARD, PH-5
603	1-622-223-11	o	PRINTED CIRCUIT BOARD, EC-28
604	1-622-261-11	o	PRINTED CIRCUIT BOARD, DUS-147
605	3-534-238-XX	s	SPRING, TENSION (23T)
606	3-535-531-00	s	SPRING, TENSION
607	3-538-102-00	s	SPRING, TENSION
608	3-637-335-00	s	SPRING, COMPRESSION (C)
609	3-657-086-00	o	SPACER (3x20)
610	3-668-705-00	s	HOLDER (LOWER), S
611	3-668-706-02	s	HOLDER (UPPER), S
612	3-668-708-00	o	ARM, DRIVING, CORRECTION GUIDE
613	3-668-809-02	o	BRACKET, HOLDER
614	3-668-832-02	o	HOLDER (S)
615	3-668-837-00	o	HOLDER, LED
616	3-668-859-00	o	STOPPER, RING
617	3-668-860-00	o	HOOK, SPRING, TENSION REGULATOR
618	3-668-884-03	o	JOINT, RESERVE PRESS
619	3-668-894-00	o	LEVER, RELEASE
620	3-668-962-00	o	BRACKET, AH PC BOARD
621	3-669-920-00	o	COVER, S PHOTO
622	3-669-963-00	o	SPRING, LEAF, GROUND
623	3-669-964-00	o	PLATE, GROUND
624	3-672-723-00	o	TABLE, HEAD, E
625	3-672-764-03	s	GUARD, S
626	4-855-006-11	s	SPACER (3x14)
627	8-825-514-20	s	HEAD, CTL (PF170-58)

PINCH LEVER AND PINCH SOLENOID BLOCKS

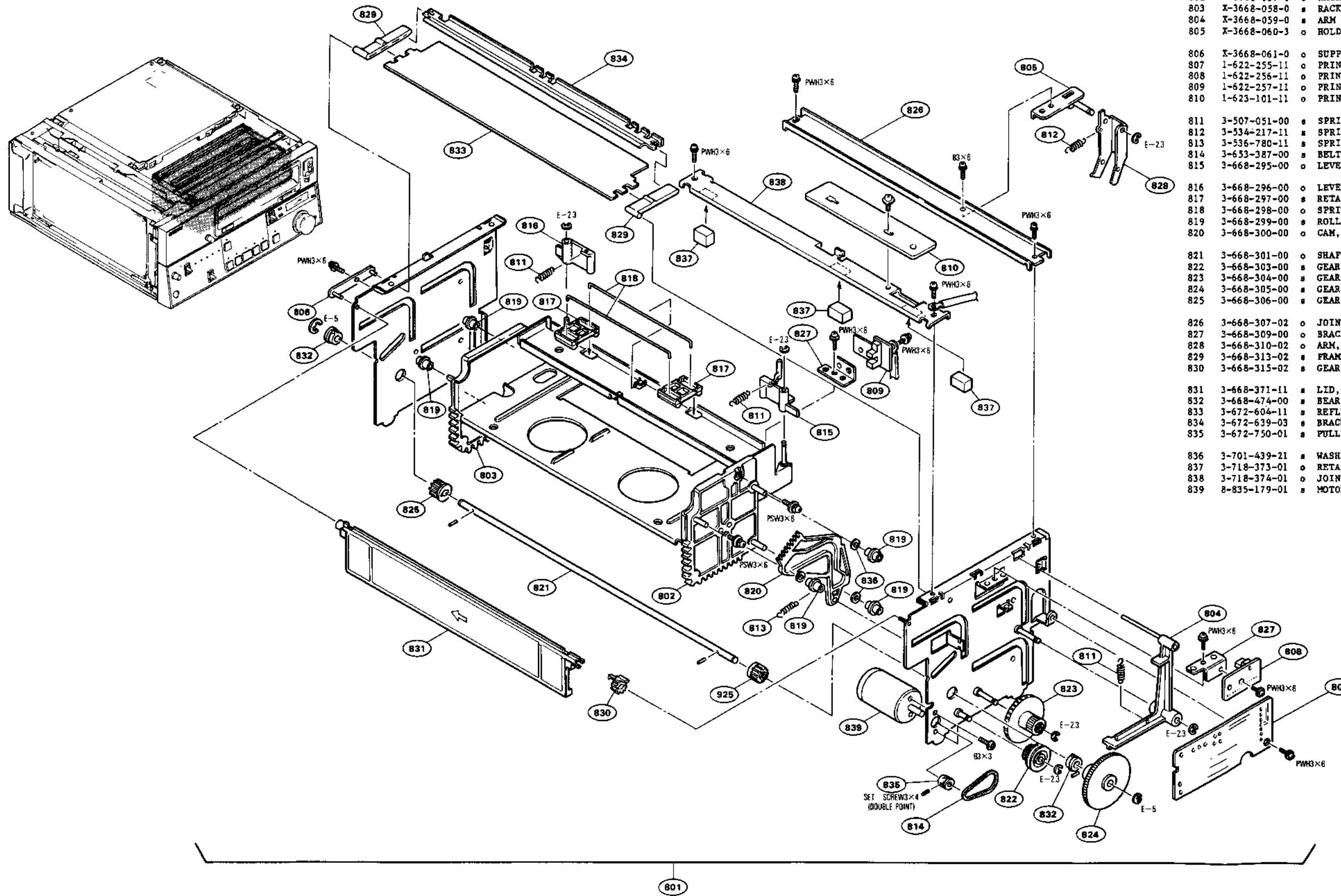


No.	Part No.	SP	Description
701	X-3668-734-0	o	BASE ASS'Y, PINCH PRESS
702	X-3668-735-3	s	LEVER ASS'Y, RESERVE PRESS
703	X-3668-736-0	o	JOINT ASS'Y
704	1-454-416-31	s	SOLENOID, PLUNGER
705	3-610-265-02	s	SPRING
707	3-645-392-00	s	SPRING, TENSION
708	3-668-863-00	s	GUIDE, ARBOR
709	3-668-864-00	s	PIN, SOLENOID
710	3-668-865-00	o	LEVER (B), PINCH PRESS
711	3-668-867-00	o	SPACER (8x9)
712	3-668-884-03	o	JOINT, RESERVE PRESS
713	3-668-896-00	o	SLEEVE, PRESS LEVER, PINCH
714	3-703-074-00	s	CAP 3, SHAFT
715	3-718-364-01	o	LEVER (A), PINCH PRESS
716	3-718-365-01	o	PLATE, PRESS, PINCH
717	3-718-727-01	o	DECK, RESERVE PRESS

CASSETTE-UP COMPARTMENT BLOCK

CASSETTE-UP COMPARTMENT BLOCK

CASSETTE-UP COMPARTMENT BLOCK

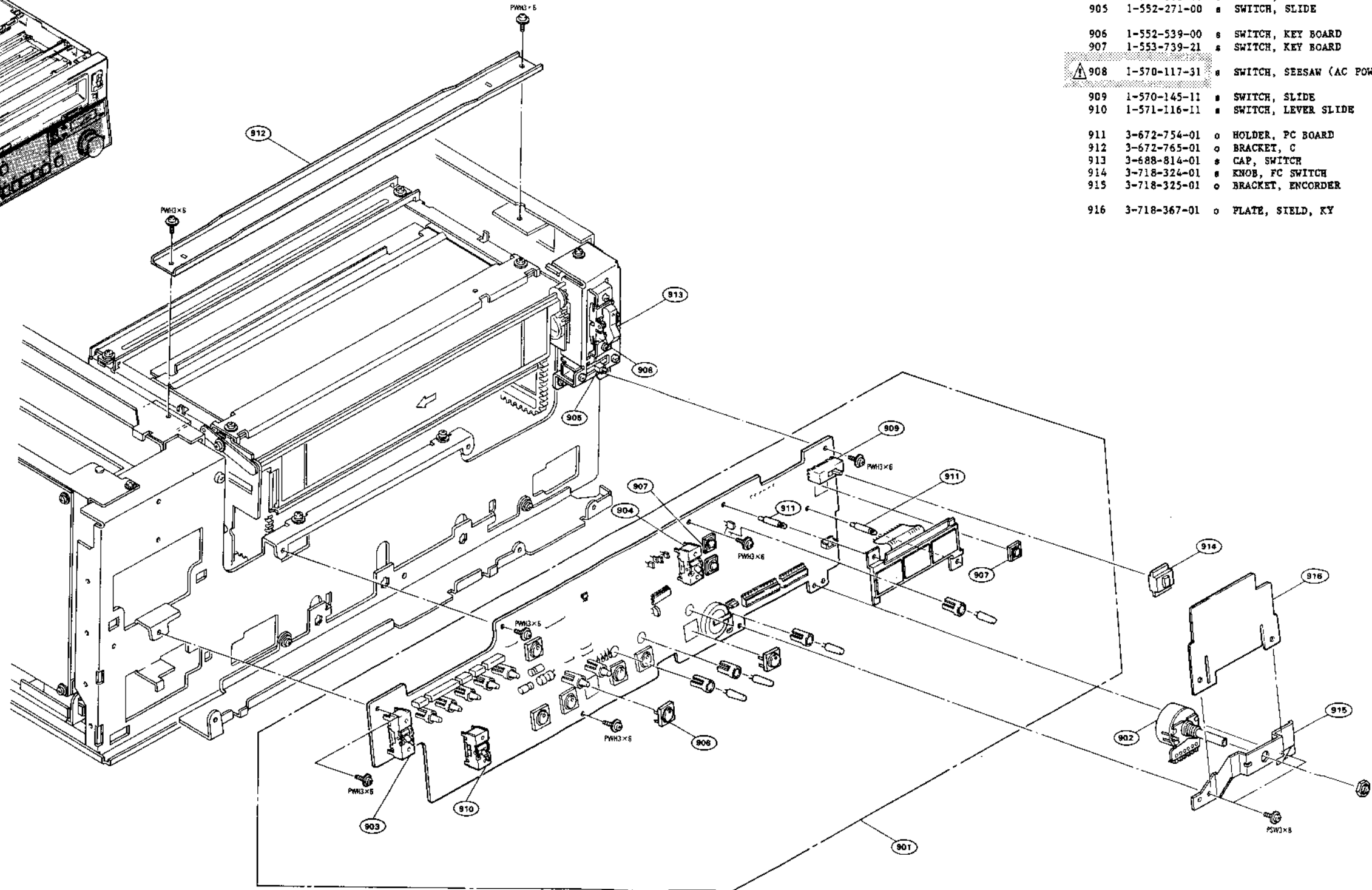
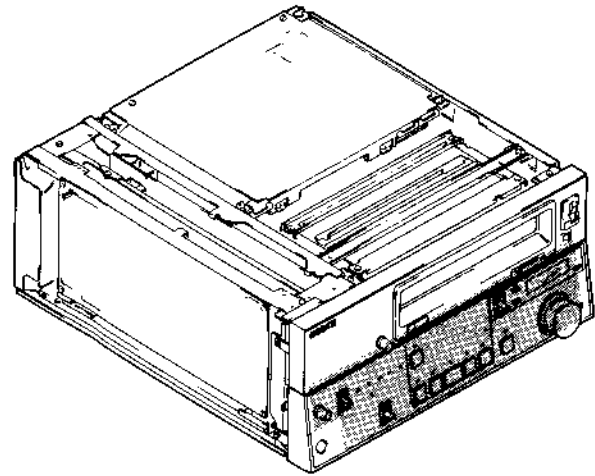


No.	Part No.	SP	Description
801	A-6751-367-A	■	CASSETTE-UP BLOCK ASS'Y
802	X-3668-057-0	■	RACK ASS'Y, CASSETTE COMPARTMENT
803	X-3668-058-0	■	RACK ASS'Y, CASSETTE COMPARTMENT
804	X-3668-059-0	■	ARM ASS'Y, SWITCH, DOWN
805	X-3668-060-3	○	HOLDER ASS'Y, ARM
806	X-3668-061-0	○	SUPPORT ASS'Y, LID
807	1-622-255-11	○	PRINTED CIRCUIT BOARD, CC-31
808	1-622-256-11	○	PRINTED CIRCUIT BOARD, CC-32
809	1-622-257-11	○	PRINTED CIRCUIT BOARD, CC-33
810	1-623-101-11	○	PRINTED CIRCUIT BOARD, LP-41
811	3-507-051-00	■	SPRING, TENSION
812	3-534-217-11	■	SPRING, TENSION
813	3-536-780-11	■	SPRING, TENSION
814	3-653-387-00	■	BELT, LM
815	3-668-295-00	○	LEVER (RIGHT), CASSETTE PUSH-OUT
816	3-668-296-00	○	LEVER (LEFT), CASSETTE PUSH-OUT
817	3-668-297-00	○	RETAINER, CASSETTE
818	3-668-298-00	○	SPRING
819	3-668-299-00	■	ROLLER, GUIDE
820	3-668-300-00	○	CAM, LID OPEN
821	3-668-301-00	○	SHAFT, DRIVING
822	3-668-303-00	■	GEAR (A)
823	3-668-304-00	■	GEAR (B)
824	3-668-305-00	■	GEAR (C)
825	3-668-306-00	■	GEAR (D)
826	3-668-307-02	○	JOINT (R), LEFT & RIGHT
827	3-668-309-00	○	BRACKET, SWITCH
828	3-668-310-02	○	ARM, LID OPEN
829	3-668-313-02	■	FRAME, SUPPORT, REFLECTOR
830	3-668-315-02	■	GEAR, LID
831	3-668-371-11	■	LID, CASSETTE
832	3-668-474-00	■	BEARING (6)
833	3-672-604-11	■	REFLECTOR
834	3-672-639-03	■	BRACKET, LAMP
835	3-672-750-01	■	PULLEY (C), MOTOR
836	3-701-439-21	■	WASHER, POLY 3MM DIA., 0.50T
837	3-718-373-01	○	RETAINER, LID
838	3-718-374-01	○	JOINT (F), LEFT & RIGHT
839	8-835-179-01	■	MOTOR, DC MCB2B15

FUNCTION CONTROL

FUNCTION CONTROL

FUNCTION CONTROL

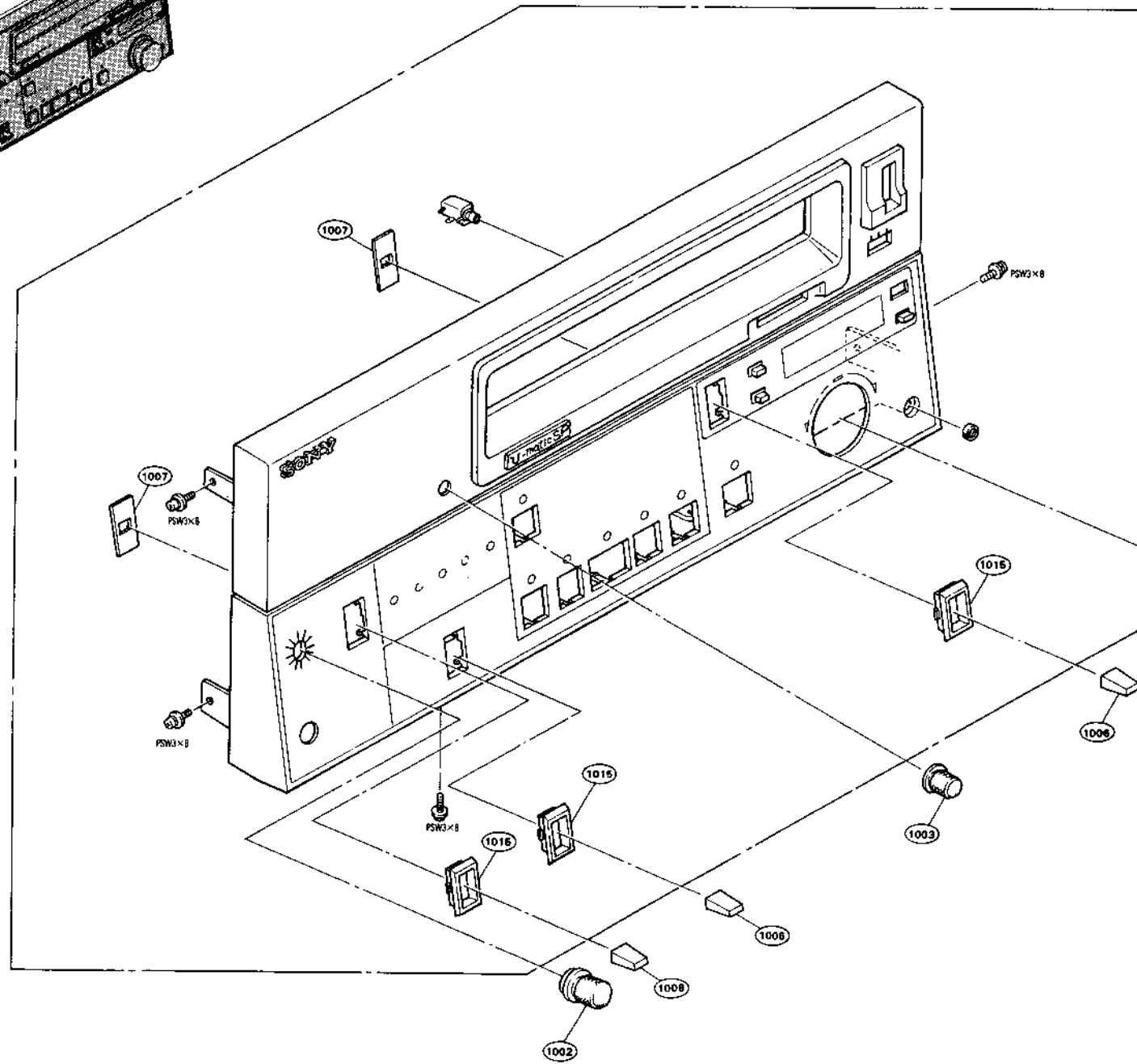
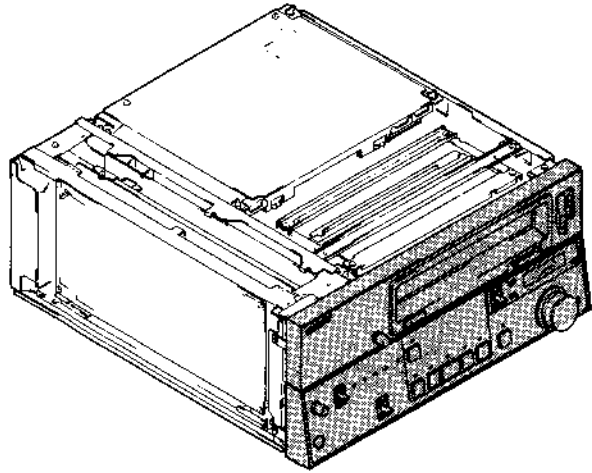


No.	Part No.	SP	Description
901	A-6717-455-A	o	MOUNTED CIRCUIT BOARD, KY-105A
902	1-464-801-12	o	ENCODER, ROTARY
903	1-516-298-00	o	SWITCH, LEVER SLIDE
904	1-516-995-00	o	SWITCH, LEVER SLIDE
905	1-552-271-00	o	SWITCH, SLIDE
906	1-552-539-00	o	SWITCH, KEY BOARD
907	1-553-739-21	o	SWITCH, KEY BOARD
908	1-570-117-31	o	SWITCH, SEESAW (AC POWER)
909	1-570-145-11	o	SWITCH, SLIDE
910	1-571-116-11	o	SWITCH, LEVER SLIDE
911	3-672-754-01	o	HOLDER, PC BOARD
912	3-672-765-01	o	BRACKET, C
913	3-688-814-01	o	CAP, SWITCH
914	3-718-324-01	o	KNOB, FC SWITCH
915	3-718-325-01	o	BRACKET, ENCODER
916	3-718-367-01	o	PLATE, SHIELD, KY

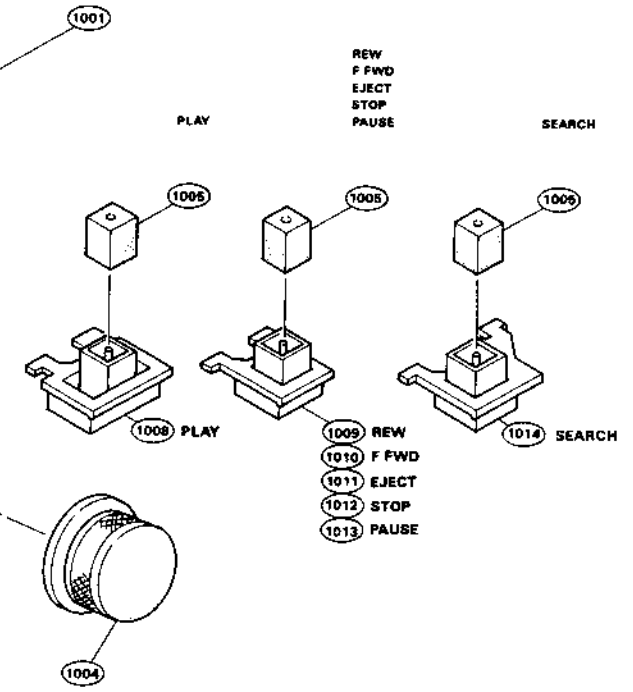
FRONT PANEL BLOCK

FRONT PANEL BLOCK

FRONT PANEL BLOCK

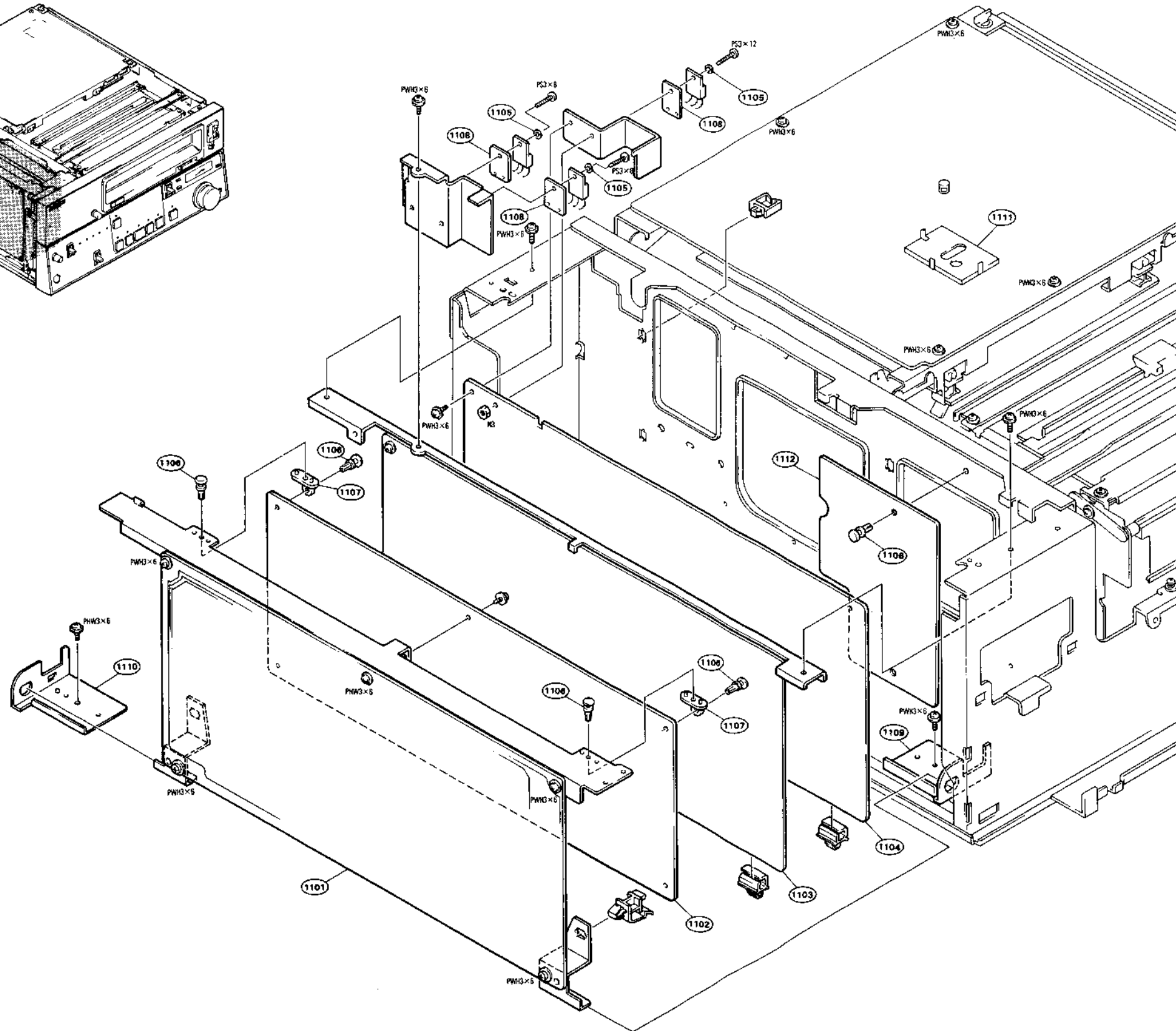
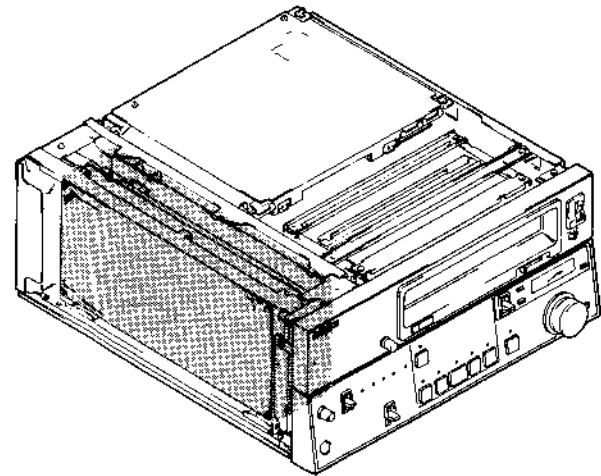


No.	Part No.	SP	Description
1001	A-5704-267-A	o	PANEL ASS'Y, FRONT
1002	X-2112-801-1	s	KNOB ASS'Y, VOL
1003	X-3672-707-1	s	KNOB ASS'Y, VOLUME
1004	X-3718-304-1	s	KNOB ASS'Y, DIAL
1005	2-284-744-00	o	CUSHION (B), KEY
1006	3-668-028-21	s	KNOB (SMALL), LEVER SWITCH
1007	3-669-909-31	o	PLATE, BLIND, LEVER SWITCH
1008	3-672-782-02	s	KEY TOP (A) "PLAY"
1009	3-672-783-02	s	KEY TOP (B) "REW"
1010	3-672-783-12	s	KEY TOP (B) "F FWD"
1011	3-672-783-32	s	KEY TOP (B) "EJECT"
1012	3-672-783-42	s	KEY TOP (B) "STOP"
1013	3-672-783-52	s	KEY TOP (B) "PAUSE"
1014	3-672-785-11	s	KEY TOP (D) "SEARCH"
1015	3-672-786-21	o	ESCUTCHEON (INNER), SLIDE SW



CHASSIS BLOCK (1) CHASSIS BLOCK (1)

CHASSIS BLOCK (1), LEFT SIDE

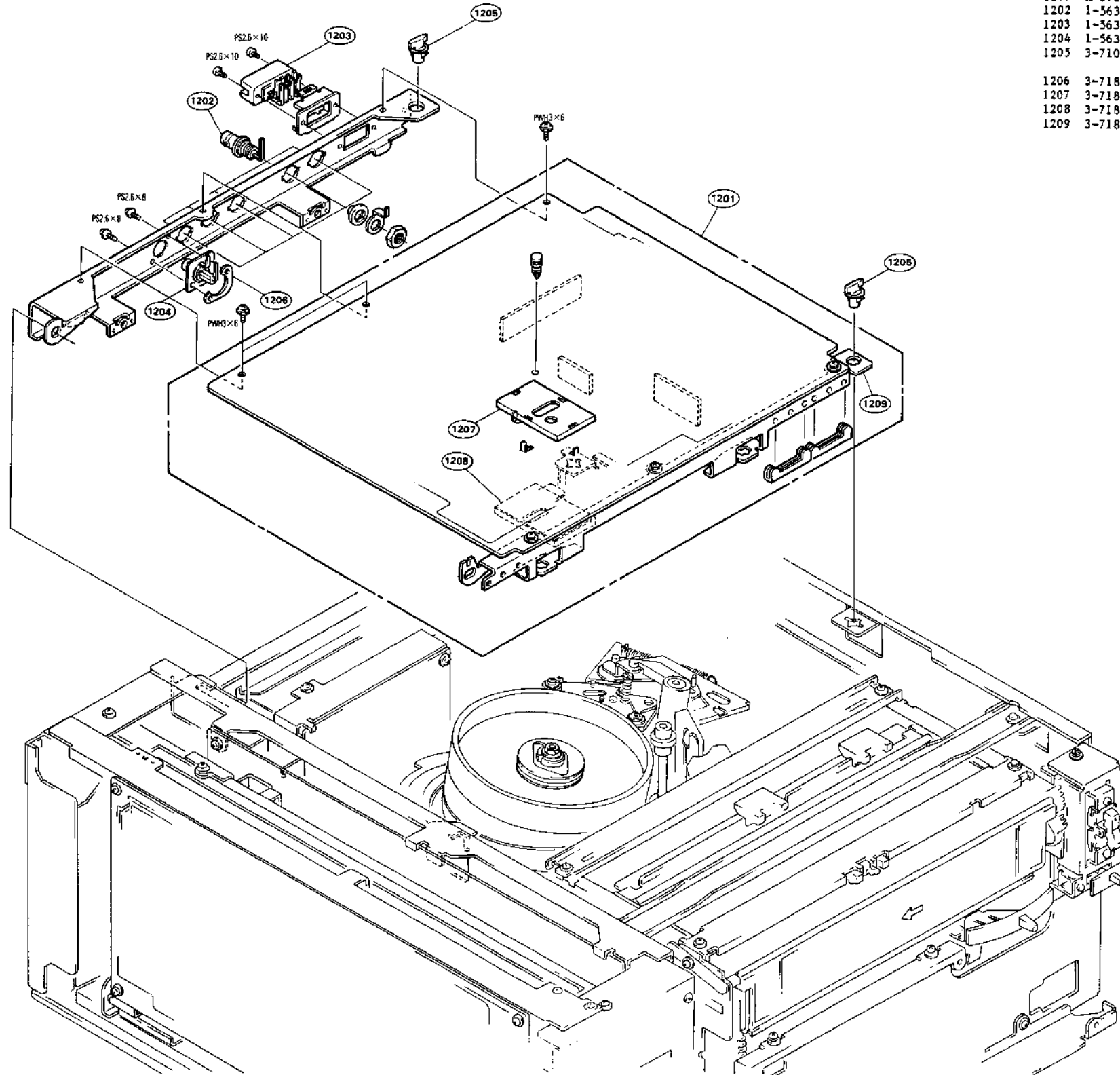
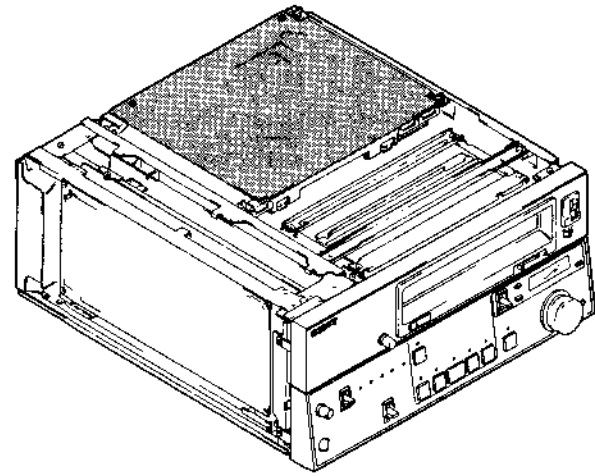


No.	Part No.	SF	Description
1101	A-6713-280-A	o	MOUNTED CIRCUIT BOARD, AU-82A
1102	A-6713-281-A	o	MOUNTED CIRCUIT BOARD, AU-89A
1103	A-6715-364-A	o	MOUNTED CIRCUIT BOARD, SV-93A
1104	A-6717-454-A	o	MOUNTED CIRCUIT BOARD, SY-106A
1105	2-371-561-00	s	BUSHING (P), INSULATING
1106	3-646-090-00	s	RIVET, NYLON
1107	3-657-153-00	o	HINGE
1108	3-703-037-00	s	INSULATOR, TO-220
1109	3-718-303-01	o	PLATE (A), HINGE, AU
1110	3-718-304-01	o	PLATE (B), HINGE, AU
1111	3-718-315-01	s	PLATE (UPPER), SHIELD, VP
1112	3-718-370-01	o	INSULATOR, SY

CHASSIS BLOCK (2)

CHASSIS BLOCK (2)

CHASSIS BLOCK (2), BACK SIDE

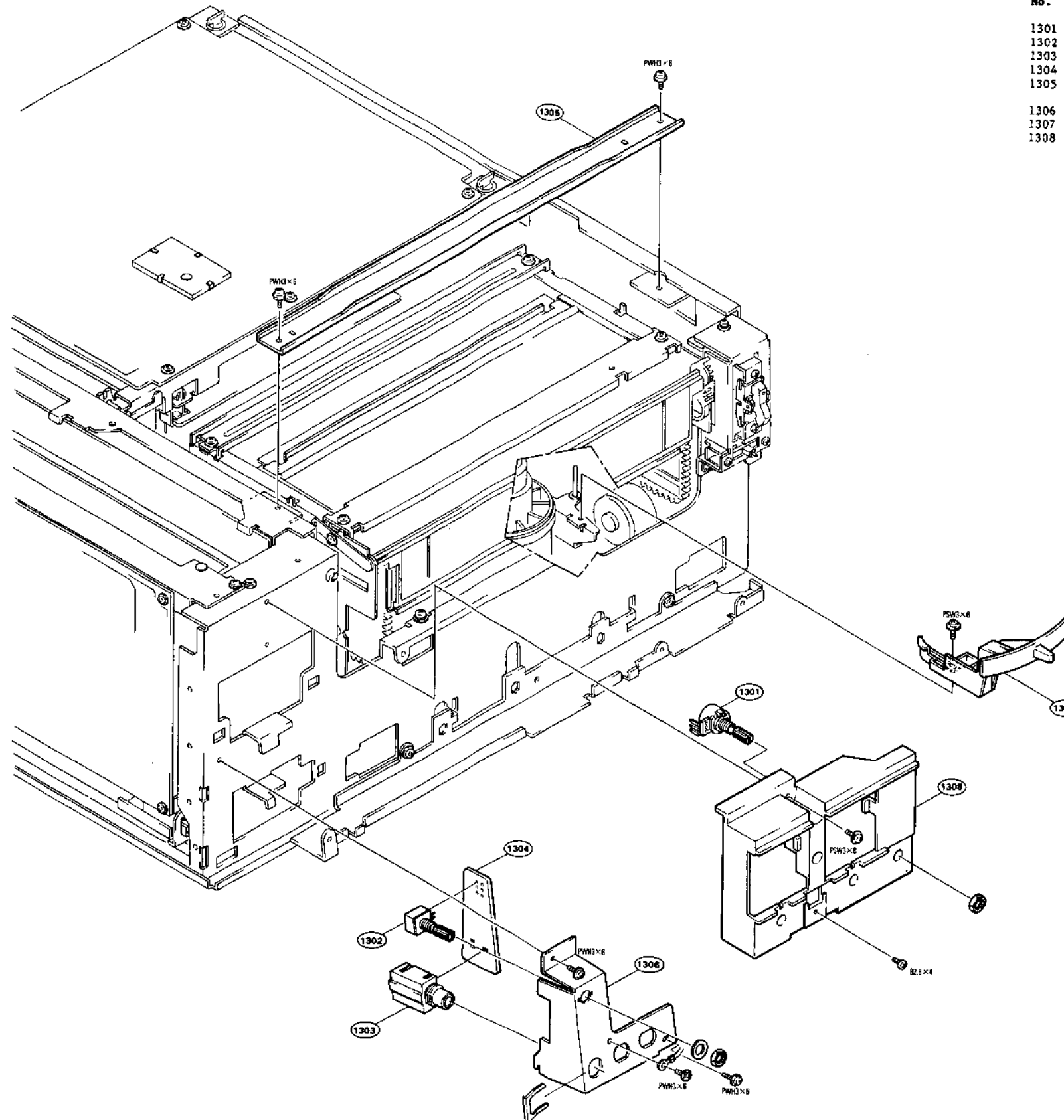
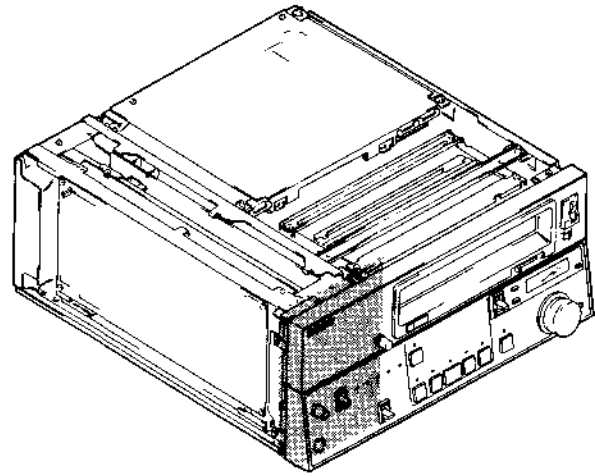


No.	Part No.	SP	Description
1201	A-6711-822-A	o	MOUNTED CIRCUIT BOARD, VP-21A
1202	1-563-354-11	s	CONNECTOR, BNC
1203	1-563-356-11	s	CONNECTOR, MULTI SP
1204	1-563-989-11	s	JACK, PIN (RCA) 1P
1205	3-710-825-01	o	FASTENER, PLATE
1206	3-718-302-01	o	BRACKET, PIN JACK
1207	3-718-315-01	s	PLATE (UPPER), SHIELD, VP
1208	3-718-316-01	s	PLATE (LOWER), SHIELD VP
1209	3-718-354-01	o	BRACKET, VR

LEVEL CONTROL PANEL

LEVEL CONTROL PANEL

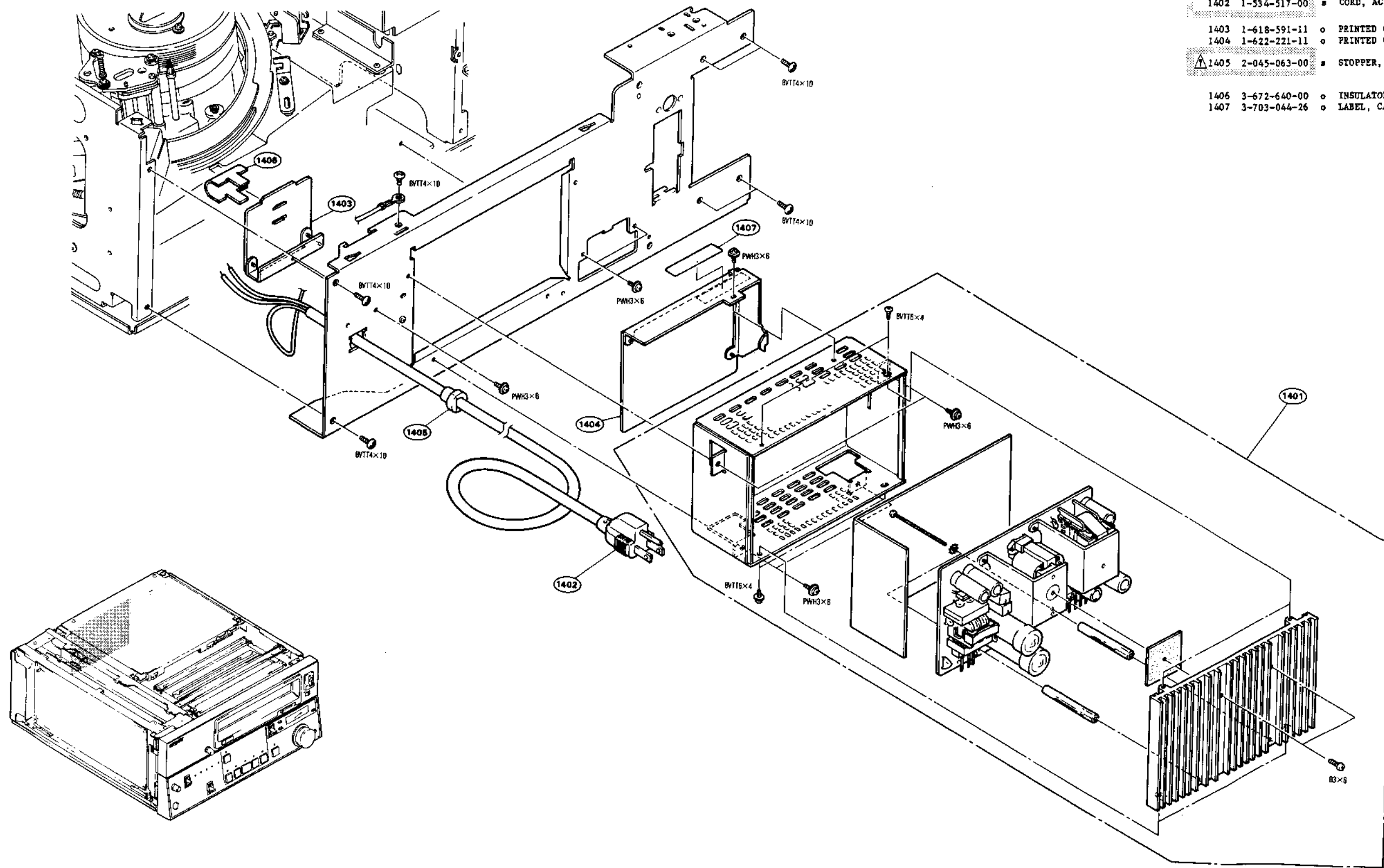
LEVEL CONTROL PANEL



No.	Part No.	SP	Description
1301	1-237-215-11	s	RES, VAR CARBON 100K
1302	1-237-703-11	s	RES, VAR CARBON 2K/2K
1303	1-562-795-11	s	JACK, LARGE TYPE
1304	1-622-220-11	o	PRINTED CIRCUIT BOARD, HF-30
1305	3-672-765-01	o	BRACKET, C
1306	3-718-331-01	o	BRACKET, HEAD PHONE
1307	3-718-337-01	s	LEVER, SKEW
1308	3-718-341-01	o	PANEL, METER

SWITCHING REGULATOR SWITCHING REGULATOR

SWITCHING REGULATOR

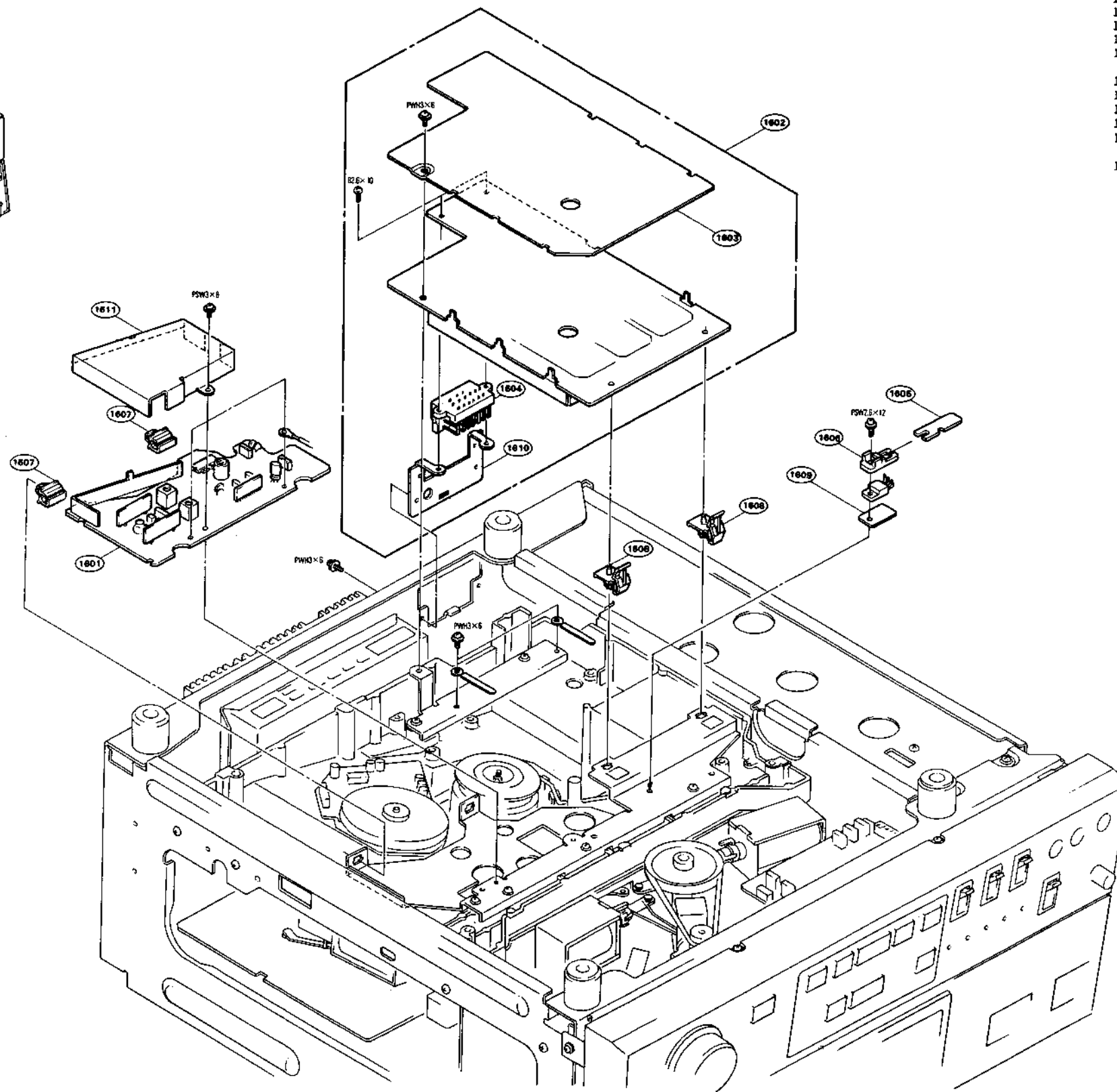
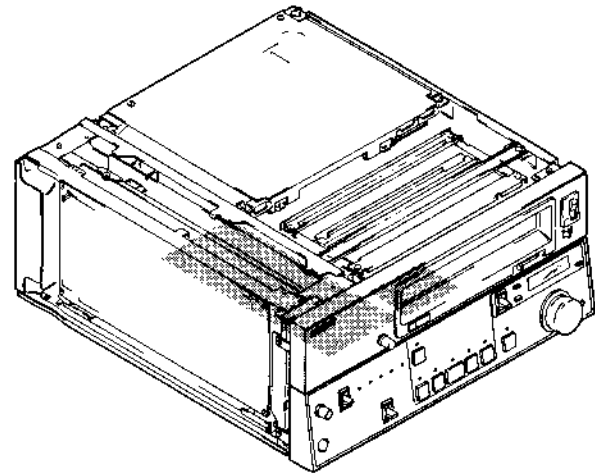


No.	Part No.	SF	Description
⚠	1401	1-413-248-11	■ SWITCHING REGULATOR (UR-14)
	1402	1-534-517-00	■ CORD, AC
	1403	1-618-591-11	○ PRINTED CIRCUIT BOARD, AC-65
	1404	1-622-221-11	○ PRINTED CIRCUIT BOARD, DC-31
⚠	1405	2-045-063-00	■ STOPPER, CORD
	1406	3-672-640-00	○ INSULATOR, AC
	1407	3-703-044-26	○ LABEL, CAUTION

CHASSIS BLOCK (3)

CHASSIS BLOCK (3)

CHASSIS BLOCK (3), BOTTOM

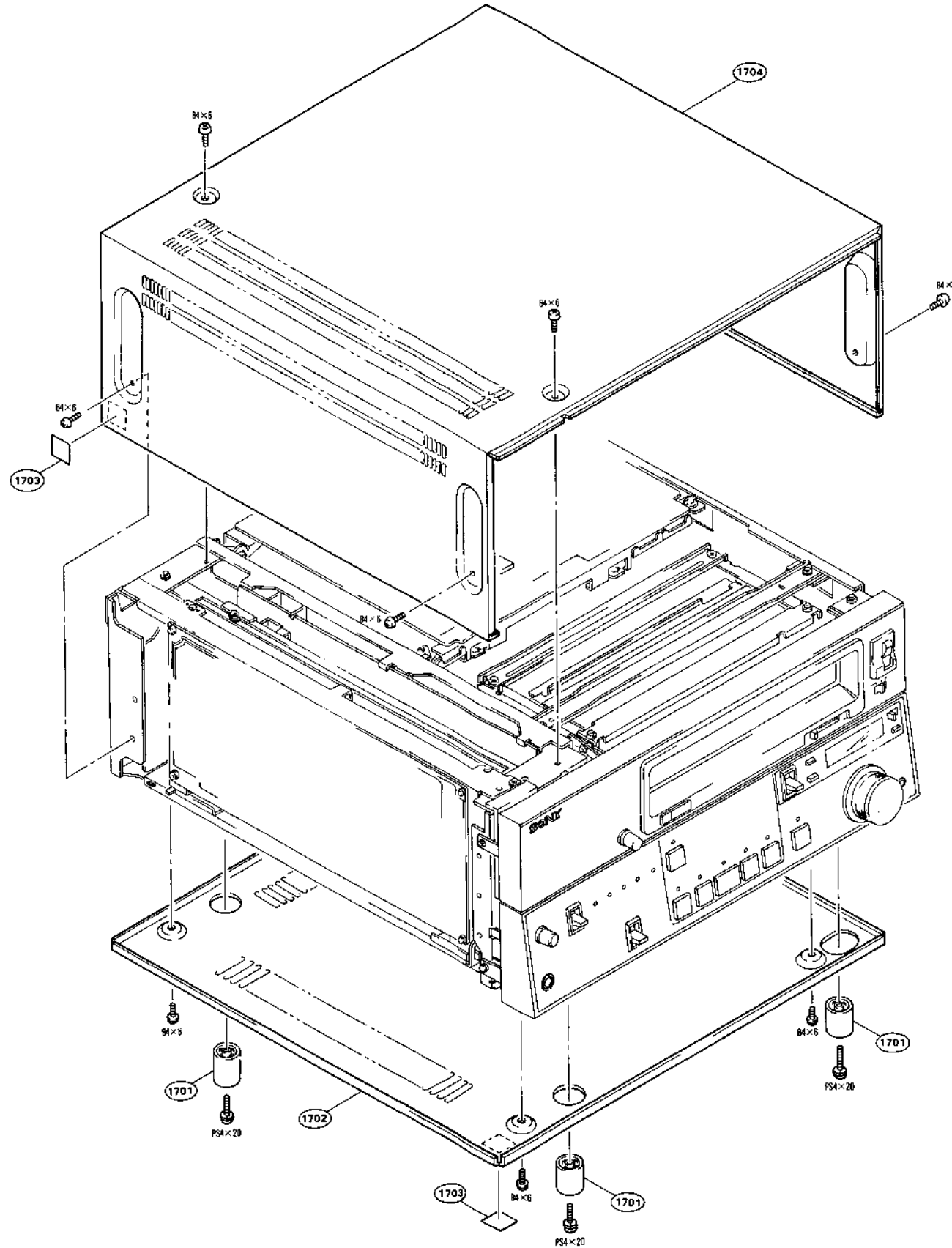
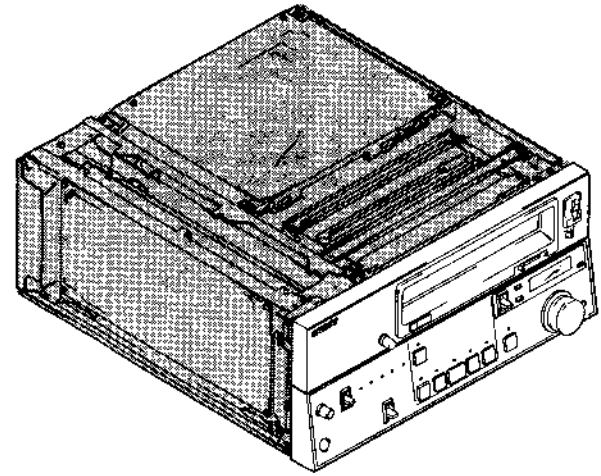


No.	Part No.	SP	Description
1601	A-6711-823-A	o	MOUNTED CIRCUIT BOARD, RP-31A
1602	A-6717-450-A	o	MOUNTED CIRCUIT BOARD, IF-132
1603	X-3718-306-1	o	PLATE BLOCK ASS'Y, SHIELD IF
1604	1-566-615-11	o	CONNECTOR, SQUARE 33P
1605	1-605-018-00	o	PRINTED CIRCUIT BOARD, PT-9
1606	3-669-904-00	o	HOLDER, PT
1607	3-703-072-00	o	HOLDER, PCB
1608	3-703-141-00	o	HOLDER, PCB
1609	3-703-207-11	o	INSULATOR, TO-220
1610	3-718-321-01	o	BRACKET, CONNECTOR
1611	3-718-368-01	o	PLATE (UPPER), SHIELD, RP

ORNAMENTAL PANEL BLOCK

ORNAMENTAL PANEL BLOCK

ORNAMENTAL PANEL BLOCK



No.	Part No.	SP	Description
1701	3-642-656-01	s	LEG
1702	3-672-766-01	o	BOARD, BOTTOM
1703	3-703-848-01	o	LABEL (N), SUB CAUTION
1704	3-718-347-01	o	CASE, U

15-3. ELECTRICAL PARTS LIST

General Purpose Electrical Parts List

Parts that are not listed in the "reference numbers order list" are shown in following list.
Reference numbers are omitted.

Part No.	SP	Description	Part No.	SP	Description
<u>CAPACITOR</u>			<u>.MICA, SILVERED</u>		
<u>.MYLAR</u>			1-107-019-00	s	CAP, MICA 1.0pF $\pm 0.5pF$ 500V
1-130-467-00	s	CAP, MYLAR 470pF 5% 50V	1-107-039-00	s	CAP, MICA 1.2pF $\pm 0.5pF$ 500V
1-130-468-00	s	CAP, MYLAR 560pF 5% 50V	1-107-040-00	s	CAP, MICA 1.5pF $\pm 0.5pF$ 500V
1-130-469-00	s	CAP, MYLAR 680pF 5% 50V	1-107-041-00	s	CAP, MICA 1.8pF $\pm 0.5pF$ 500V
1-130-470-00	s	CAP, MYLAR 820pF 5% 50V	1-107-042-00	s	CAP, MICA 2.2pF $\pm 0.5pF$ 500V
1-130-471-00	s	CAP, MYLAR 1000pF 5% 50V	1-107-043-00	s	CAP, MICA 2.7pF $\pm 0.5pF$ 500V
1-130-472-00	s	CAP, MYLAR 1200pF 5% 50V	1-107-044-00	s	CAP, MICA 3.3pF $\pm 0.5pF$ 500V
1-130-473-00	s	CAP, MYLAR 1500pF 5% 50V	1-107-045-00	s	CAP, MICA 3.9pF $\pm 0.5pF$ 500V
1-130-474-00	s	CAP, MYLAR 1800pF 5% 50V	1-107-046-00	s	CAP, MICA 4.7pF $\pm 0.5pF$ 500V
1-130-475-00	s	CAP, MYLAR 2200pF 5% 50V	1-107-026-00	s	CAP, MICA 5.1pF $\pm 0.5pF$ 500V
1-130-476-00	s	CAP, MYLAR 2700pF 5% 50V	1-107-047-00	s	CAP, MICA 5.6pF $\pm 0.5pF$ 500V
1-130-477-00	s	CAP, MYLAR 3300pF 5% 50V	1-107-048-00	s	CAP, MICA 6.8pF $\pm 0.5pF$ 500V
1-130-478-00	s	CAP, MYLAR 3900pF 5% 50V	1-107-049-00	s	CAP, MICA 8.2pF $\pm 0.5pF$ 500V
1-130-479-00	s	CAP, MYLAR 4700pF 5% 50V	1-107-202-00	s	CAP, MICA 10pF 5% 500V
1-130-480-00	s	CAP, MYLAR 5600pF 5% 50V	1-107-203-00	s	CAP, MICA 11pF 5% 500V
1-130-481-00	s	CAP, MYLAR 6800pF 5% 50V	1-107-204-00	s	CAP, MICA 12pF 5% 500V
1-130-482-00	s	CAP, MYLAR 8200pF 5% 50V	1-107-205-00	s	CAP, MICA 13pF 5% 500V
1-130-483-00	s	CAP, MYLAR 0.01 5% 50V	1-107-206-00	s	CAP, MICA 15pF 5% 500V
1-130-484-00	s	CAP, MYLAR 0.012 5% 50V	1-107-207-00	s	CAP, MICA 16pF 5% 500V
1-130-485-00	s	CAP, MYLAR 0.015 5% 50V	1-107-208-00	s	CAP, MICA 18pF 5% 500V
1-130-486-00	s	CAP, MYLAR 0.018 5% 50V	1-107-209-00	s	CAP, MICA 20pF 5% 500V
1-130-487-00	s	CAP, MYLAR 0.022 5% 50V	1-107-210-00	s	CAP, MICA 22pF 5% 500V
1-130-488-00	s	CAP, MYLAR 0.027 5% 50V	1-107-211-00	s	CAP, MICA 24pF 5% 500V
1-130-489-00	s	CAP, MYLAR 0.033 5% 50V	1-107-157-00	s	CAP, MICA 27pF 5% 500V
1-130-490-11	s	CAP, MYLAR 0.039 5% 50V	1-107-158-00	s	CAP, MICA 30pF 5% 500V
1-130-491-00	s	CAP, MYLAR 0.047 5% 50V	1-107-159-00	s	CAP, MICA 33pF 5% 500V
1-130-492-11	s	CAP, MYLAR 0.056 5% 50V	1-107-074-00	s	CAP, MICA 36pF 5% 50V
1-130-493-00	s	CAP, MYLAR 0.068 5% 50V	1-107-075-00	s	CAP, MICA 39pF 5% 50V
1-130-494-11	s	CAP, MYLAR 0.082 5% 50V	1-107-076-00	s	CAP, MICA 43pF 5% 50V
1-130-495-00	s	CAP, MYLAR 0.1 5% 50V	1-107-077-00	s	CAP, MICA 47pF 5% 50V
1-130-496-00	s	CAP, MYLAR 0.12 5% 50V	1-107-164-00	s	CAP, MICA 51pF 5% 500V
1-130-497-00	s	CAP, MYLAR 0.15 5% 50V	1-107-165-00	s	CAP, MICA 56pF 5% 500V
1-130-498-00	s	CAP, MYLAR 0.18 5% 50V	1-107-166-00	s	CAP, MICA 62pF 5% 500V
1-130-499-00	s	CAP, MYLAR 0.22 5% 50V	1-107-036-00	s	CAP, MICA 68pF 5% 500V
1-136-502-11	s	CAP, MYLAR 0.33 5% 50V	1-107-167-00	s	CAP, MICA 75pF 5% 500V
			1-107-083-00	s	CAP, MICA 82pF 5% 50V
			1-107-084-00	s	CAP, MICA 91pF 5% 50V
			1-107-085-00	s	CAP, MICA 100pF 5% 50V
			1-107-086-00	s	CAP, MICA 110pF 5% 50V
			1-107-087-00	s	CAP, MICA 120pF 5% 50V
			1-109-538-00	s	CAP, MICA 130pF 5% 100V
			1-109-539-00	s	CAP, MICA 150pF 5% 100V
			1-107-090-00	s	CAP, MICA 160pF 5% 50V
			1-109-540-00	s	CAP, MICA 180pF 5% 100V
			1-109-541-00	s	CAP, MICA 200pF 5% 100V
			1-109-542-00	s	CAP, MICA 220pF 5% 100V
			1-109-545-00	s	CAP, MICA 270pF 5% 100V
			1-109-547-00	s	CAP, MICA 330pF 5% 100V
			1-109-549-00	s	CAP, MICA 390pF 5% 100V
			1-109-633-00	s	CAP, MICA 470pF 2% 500V
			1-109-555-00	s	CAP, MICA 560pF 5% 100V
			1-109-635-00	s	CAP, MICA 470pF 2% 500V

Part No. SP Description

.ELECTROLYTIC

1-124-902-00 s CAP, ELECT 0.47 20% 50V
1-124-791-11 s CAP, ELECT 1.0 20% 100V
1-124-925-11 s CAP, ELECT 2.2 20% 100V
1-123-382-00 s CAP, ELECT 3.3 20% 100V
1-124-927-00 s CAP, ELECT 4.7 20% 100V

1-123-875-91 s CAP, ELECT 10 20% 50V
1-124-915-11 s CAP, ELECT 10 20% 63V
1-124-667-11 s CAP, ELECT 10 20% 100V
1-124-908-11 s CAP, ELECT 22 20% 50V
1-124-916-11 s CAP, ELECT 22 20% 63V

1-124-929-11 s CAP, ELECT 22 20% 100V
1-124-963-11 s CAP, ELECT 33 20% 16V
1-124-482-11 s CAP, ELECT 33 20% 35V
1-124-917-11 s CAP, ELECT 33 20% 63V
1-124-930-11 s CAP, ELECT 33 20% 100V

1-124-446-11 s CAP, ELECT 47 20% 10V
1-124-477-11 s CAP, ELECT 47 20% 25V
1-124-910-11 s CAP, ELECT 47 20% 50V
1-124-918-11 s CAP, ELECT 47 20% 63V
1-124-931-11 s CAP, ELECT 47 20% 100V

1-124-443-00 s CAP, ELECT 100 20% 10V
1-126-101-11 s CAP, ELECT 100 20% 16V
1-124-478-11 s CAP, ELECT 100 20% 25V
1-124-122-11 s CAP, ELECT 100 20% 50V
1-124-572-11 s CAP, ELECT 100 20% 63V

1-123-605-00 s CAP, ELECT 100 20% 100V
1-124-444-00 s CAP, ELECT 220 20% 10V
1-124-120-11 s CAP, ELECT 220 20% 25V
1-124-484-11 s CAP, ELECT 220 20% 35V
1-124-911-11 s CAP, ELECT 220 20% 50V

1-124-919-51 s CAP, ELECT 220 20% 63V
1-124-628-11 s CAP, ELECT 220 20% 100V
1-124-442-00 s CAP, ELECT 330 20% 6.3V
1-124-604-00 s CAP, ELECT 330 20% 10V
1-124-119-00 s CAP, ELECT 330 20% 16V

1-124-479-11 s CAP, ELECT 330 20% 25V
1-124-485-11 s CAP, ELECT 330 20% 35V
1-124-912-11 s CAP, ELECT 330 20% 50V
1-124-472-11 s CAP, ELECT 470 20% 10V
1-124-475-11 s CAP, ELECT 470 20% 16V

1-124-480-11 s CAP, ELECT 470 20% 25V
1-126-104-11 s CAP, ELECT 470 20% 35V
1-124-913-11 s CAP, ELECT 470 20% 50V
1-124-921-11 s CAP, ELECT 470 20% 63V
1-124-471-00 s CAP, ELECT 1000 20% 6.3V

1-124-473-11 s CAP, ELECT 1000 20% 10V
1-124-555-00 s CAP, ELECT 1000 20% 16V
1-124-557-11 s CAP, ELECT 1000 20% 25V
1-126-105-11 s CAP, ELECT 1000 20% 35V
1-124-637-11 s CAP, ELECT 1000 20% 50V

1-124-922-11 s CAP, ELECT 1000 20% 63V
1-124-893-11 s CAP, ELECT 2200 20% 10V
1-124-556-11 s CAP, ELECT 2200 20% 16V
1-124-563-11 s CAP, ELECT 2200 20% 25V
1-124-618-11 s CAP, ELECT 2200 20% 35V

Part No. SP Description

1-124-607-11 s CAP, ELECT 2200 20% 50V
1-124-621-11 s CAP, ELECT 3300 20% 6.3V
1-124-887-00 s CAP, ELECT 3300 20% 16V
1-124-636-00 s CAP, ELECT 3300 20% 25V
1-124-762-00 s CAP, ELECT 4700 20% 10V

1-124-898-11 s CAP, ELECT 4700 20% 16V
1-124-564-11 s CAP, ELECT 4700 20% 25V
1-124-891-11 s CAP, ELECT 10000 20% 6.3V
1-124-763-00 s CAP, ELECT 10000 20% 10V

Part No.	SP	Description			
<u>.CHIP, CERAMIC</u>					
1-163-083-00	s	CAP, CHIP CERAMIC	1pF	±0.25pF	50V
1-163-085-00	s	CAP, CHIP CERAMIC	2pF	±0.25pF	50V
1-163-087-00	s	CAP, CHIP CERAMIC	4pF	±0.25pF	50V
1-163-089-00	s	CAP, CHIP CERAMIC	6pF	±0.5pF	50V
1-163-091-00	s	CAP, CHIP CERAMIC	8pF	±0.5pF	50V
1-163-093-00	s	CAP, CHIP CERAMIC	10pF		5% 50V
1-163-097-00	s	CAP, CHIP CERAMIC	15pF		5% 50V
1-163-101-00	s	CAP, CHIP CERAMIC	22pF		5% 50V
1-163-105-00	s	CAP, CHIP CERAMIC	33pF		5% 50V
1-163-109-00	s	CAP, CHIP CERAMIC	47pF		5% 50V
1-163-113-00	s	CAP, CHIP CERAMIC	68pF		5% 50V
1-163-117-00	s	CAP, CHIP CERAMIC	100pF		5% 50V
1-163-121-00	s	CAP, CHIP CERAMIC	150pF		5% 50V
1-163-125-00	s	CAP, CHIP CERAMIC	220pF		5% 50V
1-163-129-00	s	CAP, CHIP CERAMIC	330pF		5% 50V
1-163-133-00	s	CAP, CHIP CERAMIC	470pF		5% 50V
1-163-137-00	s	CAP, CHIP CERAMIC	680pF		5% 50V
1-163-141-00	s	CAP, CHIP CERAMIC	1000pF		5% 50V
1-163-145-00	s	CAP, CHIP CERAMIC	1500pF		10% 50V
1-163-013-00	s	CAP, CHIP CERAMIC	2200pF		10% 50V
1-163-015-00	s	CAP, CHIP CERAMIC	3300pF		10% 50V
1-163-017-00	s	CAP, CHIP CERAMIC	4700pF		10% 50V
1-163-019-00	s	CAP, CHIP CERAMIC	6800pF		10% 50V
1-163-021-00	s	CAP, CHIP CERAMIC	0.01		10% 50V
1-163-023-00	s	CAP, CHIP CERAMIC	0.015		10% 50V
1-163-034-00	s	CAP, CHIP CERAMIC	0.033		50V
1-163-035-00	s	CAP, CHIP CERAMIC	0.047		50V
1-163-036-00	s	CAP, CHIP CERAMIC	0.068		50V
1-163-038-00	s	CAP, CHIP CERAMIC	0.1		50V

Part No.	SP	Description			
<u>INDUCTOR</u>					
<u>.MICRO</u>					
1-408-397-00	s	INDUCTOR, MICRO	1.0		5%
1-408-399-00	s	INDUCTOR, MICRO	1.5		5%
1-408-400-00	s	INDUCTOR, MICRO	1.8		5%
1-408-401-00	s	INDUCTOR, MICRO	2.2		5%
1-408-403-00	s	INDUCTOR, MICRO	3.3		5%
1-408-404-00	s	INDUCTOR, MICRO	3.9		5%
1-408-405-00	s	INDUCTOR, MICRO	4.7		5%
1-408-406-00	s	INDUCTOR, MICRO	5.6		5%
1-408-407-00	s	INDUCTOR, MICRO	6.8		5%
1-408-408-00	s	INDUCTOR, MICRO	8.2		5%
1-408-409-00	s	INDUCTOR, MICRO	10		5%
1-408-410-00	s	INDUCTOR, MICRO	12		5%
1-408-411-00	s	INDUCTOR, MICRO	15		5%
1-408-412-00	s	INDUCTOR, MICRO	18		5%
1-408-413-00	s	INDUCTOR, MICRO	22		5%
1-408-414-00	s	INDUCTOR, MICRO	27		5%
1-408-415-00	s	INDUCTOR, MICRO	33		5%
1-408-416-00	s	INDUCTOR, MICRO	39		5%
1-408-417-00	s	INDUCTOR, MICRO	47		5%
1-408-418-00	s	INDUCTOR, MICRO	56		5%
1-408-419-00	s	INDUCTOR, MICRO	68		5%
1-408-420-00	s	INDUCTOR, MICRO	82		5%
1-408-421-00	s	INDUCTOR, MICRO	100		5%
1-408-422-00	s	INDUCTOR, MICRO	120		5%
1-408-423-00	s	INDUCTOR, MICRO	150		5%
1-408-424-00	s	INDUCTOR, MICRO	180		5%
1-408-425-00	s	INDUCTOR, MICRO	220		5%
1-408-426-00	s	INDUCTOR, MICRO	270		5%
1-408-427-00	s	INDUCTOR, MICRO	330		5%
1-408-428-00	s	INDUCTOR, MICRO	390		5%
1-408-429-00	s	INDUCTOR, MICRO	470		5%
1-410-116-11	s	INDUCTOR, MICRO	560		5%
1-410-492-11	s	INDUCTOR, MICRO	680		5%
1-410-493-11	s	INDUCTOR, MICRO	820		5%
1-410-494-11	s	INDUCTOR, MICRO	1000		5%

Part No. SP Description

RESISTOR

.CARBON

1-249-381-11 * RES, CARBON 1.0 5% 1/6W
1-249-382-11 * RES, CARBON 1.2 5% 1/6W
1-249-383-11 * RES, CARBON 1.5 5% 1/6W
1-249-384-11 * RES, CARBON 1.8 5% 1/6W
1-249-385-11 * RES, CARBON 2.2 5% 1/6W

1-249-386-11 * RES, CARBON 2.7 5% 1/6W
1-249-387-11 * RES, CARBON 3.3 5% 1/6W
1-249-388-11 * RES, CARBON 3.9 5% 1/6W
1-249-389-11 * RES, CARBON 4.7 5% 1/6W
1-249-390-11 * RES, CARBON 5.6 5% 1/6W

1-249-391-11 * RES, CARBON 6.8 5% 1/6W
1-249-392-11 * RES, CARBON 8.2 5% 1/6W
1-249-393-11 * RES, CARBON 10 5% 1/6W
1-249-394-11 * RES, CARBON 12 5% 1/6W
1-249-395-11 * RES, CARBON 15 5% 1/6W

1-249-396-11 * RES, CARBON 18 5% 1/6W
1-249-397-11 * RES, CARBON 22 5% 1/6W
1-249-398-11 * RES, CARBON 27 5% 1/6W
1-249-399-11 * RES, CARBON 33 5% 1/6W
1-249-400-11 * RES, CARBON 39 5% 1/6W

1-249-401-11 * RES, CARBON 47 5% 1/6W
1-249-402-11 * RES, CARBON 56 5% 1/6W
1-249-403-11 * RES, CARBON 68 5% 1/6W
1-215-394-00 * RES, METAL 75 1% 1/6W
1-249-404-11 * RES, CARBON 82 5% 1/6W

1-249-405-11 * RES, CARBON 100 5% 1/6W
1-249-406-11 * RES, CARBON 120 5% 1/6W
1-249-407-11 * RES, CARBON 150 5% 1/6W
1-249-408-11 * RES, CARBON 180 5% 1/6W
1-249-409-11 * RES, CARBON 220 5% 1/6W

1-249-410-11 * RES, CARBON 270 5% 1/6W
1-249-411-11 * RES, CARBON 330 5% 1/6W
1-249-412-11 * RES, CARBON 390 5% 1/6W
1-249-413-11 * RES, CARBON 470 5% 1/6W
1-249-414-11 * RES, CARBON 560 5% 1/6W

1-249-415-11 * RES, CARBON 680 5% 1/6W
1-249-416-11 * RES, CARBON 820 5% 1/6W
1-249-417-11 * RES, CARBON 1.0k 5% 1/6W
1-249-418-11 * RES, CARBON 1.2k 5% 1/6W
1-249-419-11 * RES, CARBON 1.5k 5% 1/6W

1-249-420-11 * RES, CARBON 1.8k 5% 1/6W
1-249-421-11 * RES, CARBON 2.2k 5% 1/6W
1-249-422-11 * RES, CARBON 2.7k 5% 1/6W
1-249-423-11 * RES, CARBON 3.3k 5% 1/6W
1-249-424-11 * RES, CARBON 3.9k 5% 1/6W

1-249-425-11 * RES, CARBON 4.7k 5% 1/6W
1-249-426-11 * RES, CARBON 5.6k 5% 1/6W
1-249-427-11 * RES, CARBON 6.8k 5% 1/6W
1-249-428-11 * RES, CARBON 8.2k 5% 1/6W
1-249-429-11 * RES, CARBON 10k 5% 1/6W

1-249-430-11 * RES, CARBON 12k 5% 1/6W
1-249-431-11 * RES, CARBON 15k 5% 1/6W
1-249-432-11 * RES, CARBON 18k 5% 1/6W
1-249-433-11 * RES, CARBON 22k 5% 1/6W
1-249-434-11 * RES, CARBON 27k 5% 1/6W

Part No. SP Description

1-249-435-11 * RES, CARBON 33k 5% 1/6W
1-249-436-11 * RES, CARBON 39k 5% 1/6W
1-249-437-11 * RES, CARBON 47k 5% 1/6W
1-249-438-11 * RES, CARBON 56k 5% 1/6W
1-249-439-11 * RES, CARBON 68k 5% 1/6W

1-249-440-11 * RES, CARBON 82k 5% 1/6W
1-249-441-11 * RES, CARBON 100k 5% 1/6W
1-215-471-00 * RES, METAL 120k 1% 1/6W
1-215-473-00 * RES, METAL 150k 1% 1/6W
1-215-475-00 * RES, METAL 180k 1% 1/6W

1-215-477-00 * RES, METAL 220k 1% 1/6W
1-215-479-00 * RES, METAL 270k 1% 1/6W
1-215-481-00 * RES, METAL 330k 1% 1/6W
1-215-483-00 * RES, METAL 390k 1% 1/6W
1-215-485-00 * RES, METAL 470k 1% 1/6W

1-215-487-00 * RES, METAL 560k 1% 1/6W
1-215-489-00 * RES, METAL 680k 1% 1/6W
1-215-491-00 * RES, METAL 820k 1% 1/6W
1-215-493-00 * RES, METAL 1.0M 1% 1/6W

Part No.	SP	Description
.METAL		
1-215-373-31	RES, METAL	10 1X 1/6W
1-215-374-00	RES, METAL	11 1X 1/6W
1-215-375-00	RES, METAL	12 1X 1/6W
1-215-376-00	RES, METAL	13 1X 1/6W
1-215-377-00	RES, METAL	15 1X 1/6W
1-215-378-00	RES, METAL	16 1X 1/6W
1-215-379-00	RES, METAL	18 1X 1/6W
1-215-380-00	RES, METAL	20 1X 1/6W
1-215-381-00	RES, METAL	22 1X 1/6W
1-215-382-00	RES, METAL	24 1X 1/6W
1-215-383-00	RES, METAL	27 1X 1/6W
1-215-384-00	RES, METAL	30 1X 1/6W
1-215-385-00	RES, METAL	33 1X 1/6W
1-215-386-00	RES, METAL	36 1X 1/6W
1-215-387-00	RES, METAL	39 1X 1/6W
1-215-388-00	RES, METAL	43 1X 1/6W
1-215-389-00	RES, METAL	47 1X 1/6W
1-215-390-00	RES, METAL	51 1X 1/6W
1-215-391-00	RES, METAL	56 1X 1/6W
1-215-392-00	RES, METAL	62 1X 1/6W
1-215-393-00	RES, METAL	68 1X 1/6W
1-215-394-00	RES, METAL	75 1X 1/6W
1-215-395-00	RES, METAL	82 1X 1/6W
1-215-396-00	RES, METAL	91 1X 1/6W
1-215-397-00	RES, METAL	100 1X 1/6W
1-215-398-00	RES, METAL	110 1X 1/6W
1-215-399-00	RES, METAL	120 1X 1/6W
1-215-400-00	RES, METAL	130 1X 1/6W
1-215-401-00	RES, METAL	150 1X 1/6W
1-215-402-00	RES, METAL	160 1X 1/6W
1-215-403-00	RES, METAL	180 1X 1/6W
1-215-404-00	RES, METAL	200 1X 1/6W
1-215-405-00	RES, METAL	220 1X 1/6W
1-215-406-00	RES, METAL	240 1X 1/6W
1-215-407-00	RES, METAL	270 1X 1/6W
1-215-408-00	RES, METAL	300 1X 1/6W
1-215-409-00	RES, METAL	330 1X 1/6W
1-215-410-00	RES, METAL	360 1X 1/6W
1-215-411-00	RES, METAL	390 1X 1/6W
1-215-412-00	RES, METAL	430 1X 1/6W
1-215-413-00	RES, METAL	470 1X 1/6W
1-215-414-00	RES, METAL	510 1X 1/6W
1-215-415-00	RES, METAL	560 1X 1/6W
1-215-416-00	RES, METAL	620 1X 1/6W
1-215-417-00	RES, METAL	680 1X 1/6W
1-215-418-00	RES, METAL	750 1X 1/6W
1-215-419-00	RES, METAL	820 1X 1/6W
1-215-420-00	RES, METAL	910 1X 1/6W
1-215-421-00	RES, METAL	1.0k 1X 1/6W
1-215-422-00	RES, METAL	1.1k 1X 1/6W
1-215-423-00	RES, METAL	1.2k 1X 1/6W
1-215-424-00	RES, METAL	1.3k 1X 1/6W
1-215-425-00	RES, METAL	1.5k 1X 1/6W
1-215-426-00	RES, METAL	1.6k 1X 1/6W
1-215-427-00	RES, METAL	1.8k 1X 1/6W
1-215-428-00	RES, METAL	2.0k 1X 1/6W
1-215-429-00	RES, METAL	2.2k 1X 1/6W
1-215-430-00	RES, METAL	2.4k 1X 1/6W
1-215-431-00	RES, METAL	2.7k 1X 1/6W
1-215-432-00	RES, METAL	3.0k 1X 1/6W

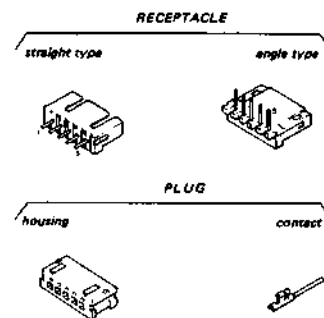
Part No.	SP	Description
1-215-433-00	RES, METAL	3.3k 1X 1/6W
1-215-434-00	RES, METAL	3.6k 1X 1/6W
1-215-435-00	RES, METAL	3.9k 1X 1/6W
1-215-436-00	RES, METAL	4.3k 1X 1/6W
1-215-437-00	RES, METAL	4.7k 1X 1/6W
1-215-438-00	RES, METAL	5.1k 1X 1/6W
1-215-439-00	RES, METAL	5.6k 1X 1/6W
1-215-440-00	RES, METAL	6.2k 1X 1/6W
1-215-441-00	RES, METAL	6.8k 1X 1/6W
1-215-442-00	RES, METAL	7.5k 1X 1/6W
1-215-443-00	RES, METAL	8.2k 1X 1/6W
1-215-444-00	RES, METAL	9.1k 1X 1/6W
1-215-445-00	RES, METAL	10k 1X 1/6W
1-215-446-00	RES, METAL	11k 1X 1/6W
1-215-447-00	RES, METAL	12k 1X 1/6W
1-215-448-00	RES, METAL	13k 1X 1/6W
1-215-449-00	RES, METAL	15k 1X 1/6W
1-215-450-00	RES, METAL	16k 1X 1/6W
1-215-451-00	RES, METAL	18k 1X 1/6W
1-215-452-00	RES, METAL	20k 1X 1/6W
1-215-453-00	RES, METAL	22k 1X 1/6W
1-215-454-00	RES, METAL	24k 1X 1/6W
1-215-455-00	RES, METAL	27k 1X 1/6W
1-215-456-00	RES, METAL	30k 1X 1/6W
1-215-457-00	RES, METAL	33k 1X 1/6W
1-215-458-00	RES, METAL	36k 1X 1/6W
1-215-459-00	RES, METAL	39k 1X 1/6W
1-215-460-00	RES, METAL	43k 1X 1/6W
1-215-461-00	RES, METAL	47k 1X 1/6W
1-215-462-00	RES, METAL	51k 1X 1/6W
1-215-463-00	RES, METAL	56k 1X 1/6W
1-215-464-00	RES, METAL	62k 1X 1/6W
1-215-465-00	RES, METAL	68k 1X 1/6W
1-215-466-00	RES, METAL	75k 1X 1/6W
1-215-467-00	RES, METAL	82k 1X 1/6W
1-215-468-00	RES, METAL	91k 1X 1/6W
1-215-469-00	RES, METAL	100k 1X 1/6W
1-215-470-00	RES, METAL	110k 1X 1/6W
1-215-471-00	RES, METAL	120k 1X 1/6W
1-215-472-00	RES, METAL	130k 1X 1/6W
1-215-473-00	RES, METAL	150k 1X 1/6W
1-215-474-00	RES, METAL	160k 1X 1/6W
1-215-475-00	RES, METAL	180k 1X 1/6W
1-215-476-00	RES, METAL	200k 1X 1/6W
1-215-477-00	RES, METAL	220k 1X 1/6W
1-215-478-00	RES, METAL	240k 1X 1/6W
1-215-479-00	RES, METAL	270k 1X 1/6W
1-215-480-00	RES, METAL	300k 1X 1/6W
1-215-481-00	RES, METAL	330k 1X 1/6W
1-215-482-00	RES, METAL	360k 1X 1/6W
1-215-483-00	RES, METAL	390k 1X 1/6W
1-215-484-00	RES, METAL	430k 1X 1/6W
1-215-485-00	RES, METAL	470k 1X 1/6W
1-215-486-00	RES, METAL	510k 1X 1/6W
1-215-487-00	RES, METAL	560k 1X 1/6W
1-215-488-00	RES, METAL	620k 1X 1/6W
1-215-489-00	RES, METAL	680k 1X 1/6W
1-215-490-00	RES, METAL	750k 1X 1/6W
1-215-491-00	RES, METAL	820k 1X 1/6W
1-215-492-00	RES, METAL	910k 1X 1/6W
1-215-493-00	RES, METAL	1.0M 1X 1/6W

Part No.	SP	Description
.CHIP		
1-216-295-00	* RES, CHIP	0 5% 1/10W
1-216-298-00	* RES, CHIP	2.2 5% 1/10W
1-216-302-00	* RES, CHIP	2.7 5% 1/10W
1-216-304-00	* RES, CHIP	3.3 5% 1/10W
1-216-306-00	* RES, CHIP	3.9 5% 1/10W
1-216-308-00	* RES, CHIP	4.7 5% 1/10W
1-216-309-00	* RES, CHIP	5.6 5% 1/10W
1-216-311-00	* RES, CHIP	6.8 5% 1/10W
1-216-313-00	* RES, CHIP	8.2 5% 1/10W
1-216-001-00	* RES, CHIP	10 5% 1/10W
1-216-003-00	* RES, CHIP	12 5% 1/10W
1-216-005-00	* RES, CHIP	15 5% 1/10W
1-216-007-00	* RES, CHIP	18 5% 1/10W
1-216-009-00	* RES, CHIP	22 5% 1/10W
1-216-011-00	* RES, CHIP	27 5% 1/10W
1-216-013-00	* RES, CHIP	33 5% 1/10W
1-216-015-00	* RES, CHIP	39 5% 1/10W
1-216-017-00	* RES, CHIP	47 5% 1/10W
1-216-019-00	* RES, CHIP	56 5% 1/10W
1-216-021-00	* RES, CHIP	68 5% 1/10W
1-216-023-00	* RES, CHIP	82 5% 1/10W
1-216-025-00	* RES, CHIP	100 5% 1/10W
1-216-027-00	* RES, CHIP	120 5% 1/10W
1-216-029-00	* RES, CHIP	150 5% 1/10W
1-216-031-00	* RES, CHIP	180 5% 1/10W
1-216-033-00	* RES, CHIP	220 5% 1/10W
1-216-035-00	* RES, CHIP	270 5% 1/10W
1-216-037-00	* RES, CHIP	330 5% 1/10W
1-216-039-00	* RES, CHIP	390 5% 1/10W
1-216-041-00	* RES, CHIP	470 5% 1/10W
1-216-043-00	* RES, CHIP	560 5% 1/10W
1-216-045-00	* RES, CHIP	680 5% 1/10W
1-216-047-00	* RES, CHIP	820 5% 1/10W
1-216-049-00	* RES, CHIP	1k 5% 1/10W
1-216-051-00	* RES, CHIP	1.2k 5% 1/10W
1-216-053-00	* RES, CHIP	1.5k 5% 1/10W
1-216-055-00	* RES, CHIP	1.8k 5% 1/10W
1-216-057-00	* RES, CHIP	2.2k 5% 1/10W
1-216-059-00	* RES, CHIP	2.7k 5% 1/10W
1-216-061-00	* RES, CHIP	3.3k 5% 1/10W
1-216-063-00	* RES, CHIP	3.9k 5% 1/10W
1-216-065-00	* RES, CHIP	4.7k 5% 1/10W
1-216-067-00	* RES, CHIP	5.6k 5% 1/10W
1-216-069-00	* RES, CHIP	6.8k 5% 1/10W
1-216-071-00	* RES, CHIP	8.2k 5% 1/10W
1-216-073-00	* RES, CHIP	10k 5% 1/10W
1-216-075-00	* RES, CHIP	12k 5% 1/10W
1-216-077-00	* RES, CHIP	15k 5% 1/10W
1-216-079-00	* RES, CHIP	18k 5% 1/10W
1-216-081-00	* RES, CHIP	22k 5% 1/10W
1-216-083-00	* RES, CHIP	27k 5% 1/10W
1-216-085-00	* RES, CHIP	33k 5% 1/10W
1-216-087-00	* RES, CHIP	39k 5% 1/10W
1-216-089-00	* RES, CHIP	47k 5% 1/10W
1-216-091-00	* RES, CHIP	56k 5% 1/10W

Part No.	SP	Description
1-216-093-00	* RES, CHIP	68k 5% 1/10W
1-216-095-00	* RES, CHIP	82k 5% 1/10W
1-216-097-00	* RES, CHIP	100k 5% 1/10W
1-216-099-00	* RES, CHIP	120k 5% 1/10W
1-216-101-00	* RES, CHIP	150k 5% 1/10W
1-216-103-00	* RES, CHIP	180k 5% 1/10W
1-216-105-00	* RES, CHIP	220k 5% 1/10W
1-216-107-00	* RES, CHIP	270k 5% 1/10W
1-216-109-00	* RES, CHIP	330k 5% 1/10W
1-216-111-00	* RES, CHIP	390k 5% 1/10W
1-216-113-00	* RES, CHIP	470k 5% 1/10W
1-216-115-00	* RES, CHIP	560k 5% 1/10W
1-216-117-00	* RES, CHIP	680k 5% 1/10W
1-216-119-00	* RES, CHIP	820k 5% 1/10W
1-216-121-00	* RES, CHIP	1.0M 5% 1/10W
1-216-123-00	* RES, CHIP	1.2M 5% 1/10W
1-216-125-00	* RES, CHIP	1.5M 5% 1/10W
1-216-127-00	* RES, CHIP	1.8M 5% 1/10W
1-216-129-00	* RES, CHIP	2.2M 5% 1/10W
1-216-131-00	* RES, CHIP	2.7M 5% 1/10W
1-216-133-00	* RES, CHIP	3.3M 5% 1/10W

Part No.	SP	Description
CONNECTOR		
1-564-001-11	o	RECEPTACLE 2P MALE (STRAIGHT TYPE)
1-564-012-11	o	RECEPTACLE 2P MALE (ANGLE TYPE)
1-562-147-11	o	HOUSING 2P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-002-11	o	RECEPTACLE 3P MALE (STRAIGHT TYPE)
1-564-013-11	o	RECEPTACLE 3P MALE (ANGLE TYPE)
1-562-148-11	o	HOUSING 3P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-003-11	o	RECEPTACLE 4P MALE (STRAIGHT TYPE)
1-564-014-11	o	RECEPTACLE 4P MALE (ANGLE TYPE)
1-562-149-11	o	HOUSING 4P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-004-11	o	RECEPTACLE 5P MALE (STRAIGHT TYPE)
1-564-015-11	o	RECEPTACLE 5P MALE (ANGLE TYPE)
1-562-150-11	o	HOUSING 5P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-005-11	o	RECEPTACLE 6P MALE (STRAIGHT TYPE)
1-564-016-11	o	RECEPTACLE 6P MALE (ANGLE TYPE)
1-562-151-11	o	HOUSING 6P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-006-11	o	RECEPTACLE 7P MALE (STRAIGHT TYPE)
1-564-017-11	o	RECEPTACLE 7P MALE (ANGLE TYPE)
1-562-152-11	o	HOUSING 7P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-007-11	o	RECEPTACLE 8P MALE (STRAIGHT TYPE)
1-564-018-11	o	RECEPTACLE 8P MALE (ANGLE TYPE)
1-562-153-11	o	HOUSING 8P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-008-41	o	RECEPTACLE 9P MALE (STRAIGHT TYPE)
1-564-019-11	o	RECEPTACLE 9P MALE (ANGLE TYPE)
1-562-154-11	o	HOUSING 9P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-009-11	o	RECEPTACLE 10P MALE (STRAIGHT TYPE)
1-564-020-11	o	RECEPTACLE 10P MALE (ANGLE TYPE)
1-562-155-11	o	HOUSING 10P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-010-21	o	RECEPTACLE 11P MALE (STRAIGHT TYPE)
1-564-021-11	o	RECEPTACLE 11P MALE (ANGLE TYPE)
1-562-156-11	o	HOUSING 11P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-011-11	o	RECEPTACLE 12P MALE (STRAIGHT TYPE)
1-564-022-11	o	RECEPTACLE 12P MALE (ANGLE TYPE)
1-562-157-11	o	HOUSING 12P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32

Part No.	SP	Description
1-564-683-11	o	RECEPTACLE 13P MALE (STRAIGHT TYPE)
1-564-743-11	o	RECEPTACLE 13P MALE (ANGLE TYPE)
1-562-627-11	o	HOUSING 13P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-069-11	o	RECEPTACLE 14P MALE (STRAIGHT TYPE)
1-564-630-11	o	RECEPTACLE 14P MALE (ANGLE TYPE)
1-562-185-11	o	HOUSING 14P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32
1-564-655-11	o	RECEPTACLE 15P MALE (STRAIGHT TYPE)
1-564-877-11	o	RECEPTACLE 15P MALE (ANGLE TYPE)
1-562-958-11	o	HOUSING 15P
1-564-026-21	o	CONTACT AWG24-30
1-564-681-21	o	CONTACT AWG32




AC-65, AU-82A, AU-89A

Ref No. Parts No. SP Description

AC-65 BOARD

1-618-591-11 o PRINTED CIRCUIT BOARD, AC-65

1-533-189-11 o HOLDER, FUSE

 GN1 1-506-371-00 o 2P PLUG (L)

 F1 1-532-743-11 s FUSE, GLASS TUBE 2.0A 125V

AU-82A BOARD

A-6713-280-A o MOUNTED CIRCUIT BOARD, AU-82A

C102 1-162-286-31 s CERAMIC 220PF 10% 50V
C304 1-162-286-31 s CERAMIC 220PF 10% 50V

D52 8-719-911-19 s 1SS119
D53 8-719-911-19 s 1SS119
D103 8-719-911-19 s 1SS119
D104 8-719-109-91 s RD6.2ES-B
D151 8-719-109-91 s RD6.2ES-B

D303 8-719-911-19 s 1SS119
D351 8-719-109-91 s RD6.2ES-B
D501 8-719-109-91 s RD6.2ES-B
D503 8-719-200-77 s 10E2N
D504 8-719-911-19 s 1SS119

D505 8-719-911-19 s 1SS119

IC51 8-759-802-46 s LA4550 (SANYO)
IC101 8-759-700-04 s NJM2043D-D (JRC)
IC102 8-759-705-62 s NJM4562D-D (JRC)

LV101 1-459-434-00 s VAR 22mH
LV302 1-459-434-00 s VAR 22mH

Q7 8-729-201-05 s 2SC2878-B
Q8 8-729-178-55 s 2SC2785-E
Q51 8-729-201-05 s 2SC2878-B
Q53 8-729-178-55 s 2SC2785-E
Q54 8-729-201-05 s 2SC2878-B

Q55 8-729-201-05 s 2SC2878-B
Q106 8-729-201-05 s 2SC2878-B
Q206 8-729-201-05 s 2SC2878-B
Q207 8-729-178-55 s 2SC2785-E
Q251 8-729-201-05 s 2SC2878-B

Q306 8-729-201-05 s 2SC2878-B
Q403 8-729-117-54 s 2SA1175-K
Q501 8-729-178-55 s 2SC2785-E
Q502 8-729-113-33 s 2SB733-4
Q503 8-729-117-56 s 2SA1175-K

Ref No. Parts No. SP Description

R177 1-247-887-00 s CARBON 220k 5% 1/4W
R124 1-247-881-00 s CARBON 120k 5% 1/4W
R126 1-247-881-00 s CARBON 120k 5% 1/4W
R321 1-247-887-00 s CARBON 220k 5% 1/4W
R327 1-247-881-00 s CARBON 120k 5% 1/4W

R329 1-247-881-00 s CARBON 120k 5% 1/4W
R507 1-247-885-00 s CARBON 180k 5% 1/4W
R509 1-247-744-11 s CARBON 270 5% 1/2W

RV101 1-228-994-00 s VAR, CARBON 10k
RV102 1-228-994-00 s VAR, CARBON 10k
RV103 1-228-993-00 s VAR, CARBON 4.7k
RV302 1-228-994-00 s VAR, CARBON 10k
RV303 1-228-994-00 s VAR, CARBON 10k

RV304 1-228-993-00 s VAR, CARBON 4.7k

AU-89A BOARD

A-6713-281-A o MOUNTED CIRCUIT BOARD, AU-89A

C3 1-136-230-00 s FILM 0.0022 3% 100V
C4 1-136-230-00 s FILM 0.0022 3% 100V
C5 1-136-257-00 s FILM 0.0039 3% 100V
C6 1-131-345-00 s TANTALUM 0.47 10% 35V
C10 1-136-169-00 s MYLAR 0.22 10% 50V

C11 1-136-163-00 s MYLAR 0.068 10% 50V
C13 1-130-339-00 s FILM 0.0056 3% 100V
C103 1-136-230-00 s FILM 0.0022 3% 100V
C104 1-136-230-00 s FILM 0.0022 3% 100V
C105 1-136-257-00 s FILM 0.0039 3% 100V

C106 1-131-345-00 s TANTALUM 0.47 10% 35V
C110 1-136-169-00 s MYLAR 0.22 10% 50V
C111 1-136-163-00 s MYLAR 0.068 10% 50V
C113 1-130-339-00 s FILM 0.0056 3% 100V
C201 1-131-372-00 s TANTALUM 15 10% 16V

C202 1-131-363-00 s TANTALUM 4.7 10% 16V
C203 1-136-164-00 s MYLAR 0.082 10% 50V
C204 1-131-372-00 s TANTALUM 15 10% 16V
C205 1-131-363-00 s TANTALUM 4.7 10% 16V
C206 1-136-153-00 s MYLAR 0.01 10% 50V

C207 1-136-164-00 s MYLAR 0.082 10% 50V
C301 1-131-404-00 s ELECT (SOLID) 0.22 10% 25V
C303 1-131-372-00 s TANTALUM 15 10% 16V
C306 1-131-372-00 s TANTALUM 15 10% 16V
C308 1-136-164-00 s MYLAR 0.082 10% 50V

C309 1-136-164-00 s MYLAR 0.082 10% 50V
C310 1-136-168-00 s MYLAR 0.18 10% 50V
C311 1-136-168-00 s MYLAR 0.18 10% 50V
C312 1-136-168-00 s MYLAR 0.18 10% 50V
C313 1-136-168-00 s MYLAR 0.18 10% 50V

C314 1-130-519-00 s MYLAR 0.018 10% 50V
C315 1-130-519-00 s MYLAR 0.018 10% 50V
C316 1-136-153-00 s MYLAR 0.01 10% 50V
C317 1-136-153-00 s MYLAR 0.01 10% 50V
C352 1-136-153-00 s MYLAR 0.01 10% 50V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
CN252	1-506-821-11	o	HOUSING, BOARD IN CONNECTOR 12P
CN251	1-562-739-11	o	HOUSING, CONNECTOR 6P
CN253	1-506-821-11	o	HOUSING, BOARD IN CONNECTOR 12P
	1-563-186-11	o	HOUSING, CONNECTOR 12P
CP1	1-236-010-11	s	FILTER, LOW PASS
CP101	1-236-010-11	s	FILTER, LOW PASS

D201	8-719-109-91	s	RD6.2ESB
D202	8-719-911-10	s	1SS119
D206	8-719-911-10	s	1SS119
D301	8-719-911-19	s	1SS119
D302	8-719-911-19	s	1SS119

D303	8-719-911-19	s	1SS119
D304	8-719-911-19	s	1SS119
D305	8-719-911-19	s	1SS119
D306	8-719-911-19	s	1SS119
D307	8-719-109-91	s	RD6.2ESB

IC1	8-752-018-80	s	CI20188 (SONY)
IC201	8-759-205-76	s	TC504013EP (TOSHIBA)
IC202	8-759-705-58	s	NJM4558D-D (JRC)
IC203	8-759-240-71	s	TC4071BP (TOSHIBA)
IC204	8-759-240-11	s	TC4011BP (TOSHIBA)

IC205	8-759-240-11	s	TC4011BP (TOSHIBA)
IC301	8-759-132-40	s	UPC324C (NEC)
IC302	8-759-132-40	s	UPC324C (NEC)
IC303	8-759-969-13	s	SN16913P (TI)
IC304	8-759-969-13	s	SN16913P (TI)
IC305	8-759-969-13	s	SN16913P (TI)
IC306	8-759-969-13	s	SN16913P (TI)

Q201	8-729-900-89	s	DTC144ES
Q204	8-729-178-55	s	2SC2785-E
Q206	8-729-900-65	s	DTA144ES
Q208	8-729-900-65	s	DTA144ES
Q306	8-729-117-54	s	2SA1175-K
Q307	8-729-117-54	s	2SA1175-K
Q308	8-729-117-54	s	2SA1175-K
Q309	8-729-117-54	s	2SA1175-K

R209	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R231	1-247-887-00	s	CARBON 220k 5% 1/4W
R301	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R318	1-247-885-00	s	CARBON 180k 5% 1/4W
R319	1-247-885-00	s	CARBON 180k 5% 1/4W

R322	1-247-895-00	s	CARBON 470k 5% 1/4W
R323	1-247-895-00	s	CARBON 470k 5% 1/4W
R324	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R325	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R326	1-247-849-00	s	CARBON 5.6k 5% 1/4W

R327	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R330	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R331	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R332	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R333	1-247-849-00	s	CARBON 5.6k 5% 1/4W

R338	1-247-869-00	s	CARBON 39k 5% 1/4W
R339	1-247-881-00	s	CARBON 120k 5% 1/4W
R340	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R343	1-247-887-00	s	CARBON 220k 5% 1/4W

Ref No.	Parts No.	SP	Description
RV11	1-230-722-11	s	VAR. CARBON 22k
RV111	1-230-722-11	s	VAR. CARBON 22k
RV312	1-230-725-11	s	VAR. CARBON 220k
RV313	1-230-722-11	s	VAR. CARBON 22k
RV314	1-230-722-11	s	VAR. CARBON 22k
RV315	1-230-718-11	s	VAR. CARBON 1k
RV316	1-230-718-11	s	VAR. CARBON 1k
RV317	1-230-722-11	s	VAR. CARBON 22k

CC-31 BOARD

1-622-255-11 o PRINTED CIRCUIT BOARD, CC-31

CC-32 BOARD

1-622-256-11 o PRINTED CIRCUIT BOARD, CC-32

IC1 8-719-940-86 s GP1L53 "CASSETTE IN DET"

CC-33 BOARD

1-622-257-11 o PRINTED CIRCUIT BOARD, CC-33

IC1 8-719-940-86 s GP1L53 "CASSETTE DOWN DET"

CP-112A BOARD

A-6713-282-A o MOUNTED CIRCUIT BOARD, CP-112A

C7	1-162-207-31	s	CERAMIC 22PF 5% 50V
C12	1-162-207-31	s	CERAMIC 22PF 5% 50V
C14	1-130-497-00	s	MYLAR 0.15 5% 50V

IC1 8-759-802-47 s IC LA4500 (SANYO)

Q1	8-729-201-05	s	2SC2878-B
Q2	8-729-201-05	s	2SC2878-B

R17	1-247-775-00	s	CARBON 4.7 5% 1/4W
R18	1-247-775-00	s	CARBON 4.7 5% 1/4W

T3	1-427-586-11	s	INPUT/OUTPUT
T4	1-427-586-11	s	INPUT/OUTPUT

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No. Parts No. SP Description

DC-31 BOARD

1-622-221-11 o PRINTED CIRCUIT BOARD, DC-31

1-533-189-11 o HOLDER, FUSE
 1-561-432-00 o CONNECTOR CONTACT
 1-561-424-00 o SOCKET, CONNECTOR 5P

C2 1-161-379-00 s CERAMIC 0.01 20% 16V

CN005 1-562-738-11 o HOUSING, CONNECTOR 5P

F1 1-532-745-11 s FUSE, GLASS TUBE 3.15A 125V
 F2 1-532-744-11 s FUSE, GLASS TUBE 2.5A 125V
 F3 1-532-742-11 s FUSE, GLASS TUBE 1.6A 125V

IC1 8-759-938-15 s BA178M05 (ROHM)

DUS-92 BOARD

1-615-924-11 o PRINTED CIRCUIT BOARD, DUS-92

H1003 8-825-578-41 s ACE HEAD

DUS-147 BOARD

1-622-261-11 o PRINTED CIRCUIT BOARD, DUS-147

EC-28 BOARD

1-622-223-11 o PRINTED CIRCUIT BOARD, EC-28

H1002 8-825-514-20 s CTL ERASE (PP170-58)

Ref No. Parts No. SP Description

HP-30 BOARD

1-622-220-11 o PRINTED CIRCUIT BOARD, HP-30

CN1013 1-507-854-00 s JACK, LARGE TYPE "HEADPHONES"

RV1001 1-237-703-11 s VAR, CARBON 2k/2k "HEADPHONES LEVEL"

IF-132 BOARD

A-6717-450-A o MOUNTED CIRCUIT BOARD, IF-132

C2 1-161-021-11 s CERAMIC 0.047 10% 25V
 C4 1-161-021-11 s CERAMIC 0.047 10% 25V
 C6 1-162-290-31 s CERAMIC 470PF 10% 50V
 C7 1-161-013-00 s CERAMIC 0.01 10% 25V
 C9 1-162-290-31 s CERAMIC 470PF 10% 50V
 C10 1-162-290-31 s CERAMIC 470PF 10% 50V
 C12 1-161-013-00 s CERAMIC 0.01 10% 25V
 C13 1-161-013-00 s CERAMIC 0.01 10% 25V
 C14 1-161-013-00 s CERAMIC 0.01 10% 25V
 C15 1-162-211-31 s CERAMIC 33PF 5% 50V
 C16 1-162-211-31 s CERAMIC 33PF 5% 50V
 C17 1-161-043-00 s CERAMIC 0.0022 10% 25V
 C18 1-161-379-00 s CERAMIC 0.01 30% 16V
 C19 1-161-379-00 s CERAMIC 0.01 30% 16V
 C20 1-161-379-00 s CERAMIC 0.01 30% 16V
 C21 1-161-379-00 s CERAMIC 0.01 30% 16V
 C22 1-161-379-00 s CERAMIC 0.01 30% 16V
 C23 1-161-379-00 s CERAMIC 0.01 30% 16V
 C24 1-161-379-00 s CERAMIC 0.01 30% 16V
 C26 1-162-296-31 s CERAMIC 0.001 10% 50V

CN1021 1-566-615-11 s CONNECTOR, SQUARE 33P "REMOTE"
 CN1022 1-562-900-11 s JACK (SMALL TYPE) "RX DATA"

D1 8-719-911-19 s 1SS119
 D2 8-719-911-19 s 1SS119
 D3 8-719-911-19 s 1SS119
 D4 8-719-911-19 s 1SS119
 D5 8-719-911-19 s 1SS119
 D6 8-719-911-19 s 1SS119
 D7 8-719-911-19 s 1SS119
 D8 8-719-911-19 s 1SS119
 D9 8-719-911-19 s 1SS119
 D10 8-719-911-19 s 1SS119
 D11 8-719-911-19 s 1SS119
 D12 8-719-911-19 s 1SS119
 D13 8-719-911-19 s 1SS119
 D14 8-719-911-19 s 1SS119
 D15 8-719-911-19 s 1SS119

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description	Ref No.	Parts No.	SP	Description
D16	8-719-911-19	*	1SS119	CP1	1-560-914-00	*	CONNECTOR POST 2P
D17	8-719-911-19	*	1SS119				
D18	8-719-911-19	*	1SS119				
D19	8-719-911-19	*	1SS119				
D20	8-719-911-19	*	1SS119	CS1	1-561-724-00	*	CONNECTOR SOCKET 2P
D21	8-719-911-19	*	1SS119				
D22	8-719-911-19	*	1SS119				
IC1	8-759-600-61	*	M54529AF (MITSUBISHI)	D1	8-719-911-19	*	1SS119
IC2	8-759-600-61	*	M54529AF (MITSUBISHI)	D2	8-719-911-19	*	1SS119
IC3	8-759-600-61	*	M54529AF (MITSUBISHI)	D5	8-719-911-19	*	1SS119
IC4	8-759-600-61	*	M54529AF (MITSUBISHI)	D6	8-719-911-19	*	1SS119
IC5	8-759-345-38	*	HD14538BP (HITACHI)	D7	8-719-911-19	*	1SS119
IC6	8-759-207-73	*	TC4030BPBB (TOSHIBA)	D8	8-719-904-55	*	GL-5HD5
IC7	8-759-240-69	*	TC4069UBP (TOSHIBA)	D10	8-719-911-19	*	1SS119
IC8	8-759-945-42	*	MB88505-548M (FUJITSU)	D11	8-719-802-11	*	TLUG154
				D12	8-719-911-19	*	1SS119
				D14	8-719-911-19	*	1SS119
Q1	8-729-900-89	*	DTC144ES	D15	8-719-911-19	*	1SS119
Q2	8-729-900-89	*	DTC144ES	D18	8-719-904-55	*	GL-5HD5
Q3	8-729-900-89	*	DTC144ES	D21	8-719-904-55	*	GL-5HD5
Q4	8-729-900-89	*	DTC144ES	D22	8-719-911-19	*	1SS119
Q5	8-729-900-89	*	DTC144ES	D23	8-719-911-19	*	1SS119
R11	1-247-895-00	*	CARBON 470k 5% 1/4W	D24	8-719-911-19	*	1SS119
R37	1-247-887-00	*	CARBON 220k 5% 1/4W	D25	8-719-904-55	*	GL-5HD5
R62	1-247-891-00	*	CARBON 330k 5% 1/4W	D26	8-719-911-19	*	1SS119
R73	1-247-887-00	*	CARBON 220k 5% 1/4W	D27	8-719-802-11	*	TLUG154
				D28	8-719-802-24	*	TLUY154
X1	1-567-143-00	*	CERAMIC, 6MHz	D29	8-719-802-24	*	TLUY154
				D30	8-719-802-24	*	TLUY154
				D31	8-719-802-11	*	TLUG154
				D32	8-719-911-19	*	1SS119
				D33	8-719-911-19	*	1SS119
				D34	8-719-911-19	*	1SS119
				IC1	8-759-645-17	*	M54517P (MITSUBISHI)
				IC2	8-759-945-40	*	MB88525-178M (FUJITSU)
				IC3	8-759-240-42	*	TC4042BP (TOSHIBA)
				L1	1-407-488-00	*	470uH
				ND701	1-807-441-21	*	LED BLOCK
<u>KY-105A BOARD</u>							
	A-6717-455-A	o	MOUNTED CIRCUIT BOARD, KY-105A				
BT1	1-528-227-11	o	BATTERY, LITHIUM (CR-2032)				
C1	1-162-211-31	*	CERAMIC 33PF 5% 50V	Q1	8-729-900-65	*	DTA144ES
C2	1-162-211-31	*	CERAMIC 33PF 5% 50V	Q2	8-729-900-65	*	DTA144ES
C4	1-161-021-11	*	CERAMIC 0.047 10% 25V	Q3	8-729-900-65	*	DTA144ES
C7	1-162-286-31	*	CERAMIC 220PF 10% 50V	Q4	8-729-900-65	*	DTA144ES
C8	1-162-286-31	*	CERAMIC 220PF 10% 50V	Q5	8-729-900-65	*	DTA144ES
C9	1-162-286-31	*	CERAMIC 220PF 10% 50V				
C10	1-162-286-31	*	CERAMIC 220PF 10% 50V				
C11	1-162-286-31	*	CERAMIC 220PF 10% 50V				
C12	1-161-021-11	*	CERAMIC 0.047 10% 25V				
C13	1-125-443-11	*	ELECT 0.047 5.5V				

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No. Parts No. SP Description

Q6 8-729-900-65 * DTAL44ES
 Q7 8-729-117-54 * 2SA1175
 Q8 8-729-117-54 * 2SA1175
 Q9 8-729-117-54 * 2SA1175
 Q10 8-729-117-54 * 2SA1175

Q11 8-729-117-54 * 2SA1175
 Q13 8-729-117-54 * 2SA1175
 Q14 8-729-117-54 * 2SA1175
 Q16 8-729-900-65 * DTAL44ES
 Q19 8-729-900-65 * DTAL44ES

Q20 8-729-900-65 * DTAL44ES
 Q21 8-729-900-65 * DTAL44ES
 Q22 8-729-900-65 * DTAL44ES
 Q23 8-729-900-65 * DTAL44ES
 Q24 8-729-900-65 * DTAL44ES

Q30 8-729-900-36 * DTC124ES

R75 1-247-736-11 * CARBON 56 5X 1/2W

S1 1-570-145-11 * LEVER SLIDE "FRAME/CTL"
 S2 1-553-739-21 * KEY "RESET"
 S4 1-553-739-21 * KEY "MARK A"
 S5 1-553-739-21 * KEY "MARK B"
 S6 1-552-539-00 * KEY "SEARCH"

S7 1-516-995-00 * LEVER SLIDE "PROGRAM OPERATION"
 S8 1-552-539-00 * KEY "PAUSE"
 S10 1-552-539-00 * KEY "FF"
 S12 1-552-539-00 * KEY "PLAY"
 S13 1-552-539-00 * KEY "REW"

S14 1-552-539-00 * KEY "EJECT"
 S15 1-552-539-00 * KEY "STOP"
 S16 1-571-116-11 * LEVER SLIDE "TBC"
 S18 1-516-298-00 * LEVER SLIDE "AUDIO MONITOR"

X1 1-567-143-00 * CERAMIC, 6MHz

LM-13 BOARD

1-618-600-11 o PRINTED CIRCUIT BOARD, LM-13

C1 1-130-471-00 * PE TEREPHTHALATE 0.001 5X 50V
 C2 1-130-471-00 * PE TEREPHTHALATE 0.001 5X 50V

M1003 1-541-376-11 * DC (DNR-4700A) "THREADING"

Ref No. Parts No. SP Description

LP-41 BOARD

1-623-101-11 o PRINTED CIRCUIT BOARD, LP-41

D1 8-719-800-89 * TLY255
 D2 8-719-800-89 * TLY255
 D3 8-719-800-89 * TLY255

R1 1-247-706-11 * CARBON 330 5X 1/4W
 R2 1-247-706-11 * CARBON 330 5X 1/4W
 R3 1-247-706-11 * CARBON 330 5X 1/4W

PD-40A BOARD

A-6725-571-A o MOUNTED CIRCUIT BOARD, PD-40A

D1 8-719-200-02 * 10E-2
 D2 8-719-200-02 * 10E-2
 D3 8-719-200-02 * 10E-2
 D4 8-719-200-02 * 10E-2
 D5 8-719-200-02 * 10E-2

D6 8-719-200-02 * 10E-2
 D7 8-719-200-02 * 10E-2
 D8 8-719-200-02 * 10E-2
 D10 8-719-200-02 * 10E-2
 D11 8-719-200-02 * 10E-2

D12 8-719-200-02 * 10E-2
 D13 8-719-200-02 * 10E-2

Q1 8-729-811-11 * 2SD1111
 Q2 8-729-178-55 * 2SC2785-E
 Q3 8-729-889-40 * 2SD894
 Q4 8-729-811-11 * 2SD1111
 Q5 8-729-178-55 * 2SC2785-E

Q6 8-729-889-40 * 2SD894
 Q8 8-729-811-11 * 2SD1111
 Q9 8-729-178-55 * 2SC2785-E
 Q10 8-729-889-40 * 2SD894
 Q11 8-729-811-11 * 2SD1111

Q12 8-729-178-55 * 2SC2785-E
 Q13 8-729-178-55 * 2SC2785-E
 Q14 8-729-889-40 * 2SD894

R6 1-532-685-00 * LINK, IC
 R12 1-532-685-00 * LINK, IC
 R19 1-532-685-00 * LINK, IC
 R25 1-532-685-00 * LINK, IC

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No. Parts No. SP Description

PD-41 BOARD

A-6725-570-A o MOUNTED CIRCUIT BOARD, PD-41

D1 8-719-200-02 s 10E-2
 D2 8-719-200-02 s 10E-2
 D3 8-719-200-02 s 10E-2
 D4 8-719-200-02 s 10E-2
 D5 8-719-200-02 s 10E-2

D6 8-719-200-02 s 10E-2

Q1 8-729-811-11 s 2SD1111
 Q2 8-729-178-55 s 2SC2785-E
 Q3 8-729-889-40 s 2SD894
 Q4 8-729-811-11 s 2SD1111
 Q5 8-729-178-55 s 2SC2785-E

Q6 8-729-889-40 s 2SD894

R6 1-532-685-00 s LINK, IC
 R12 1-532-685-00 s LINK, IC

PH-5 BOARD

1-603-737-00 o PRINTED CIRCUIT BOARD, PH-5

D1 8-719-951-04 s BR5104S

Q1 8-729-810-22 s SPS102

PT-9 BOARD

1-605-018-00 o PRINTED CIRCUIT BOARD, PT-9

Q1 8-729-377-13 s 2SA771-Y

PTC-30 BOARD

1-622-260-11 o PRINTED CIRCUIT BOARD, PTC-30

IC3 8-719-939-50 s GP1L52 "SP SWITCH"

Ref No. Parts No. SP Description

PTC-33 BOARD

1-622-258-11 o PRINTED CIRCUIT BOARD, PTC-33

IC1 8-719-940-86 s GP1L53 "THREAD END DET"
 IC2 8-719-940-86 s GP1L53 "UNTHREAD END DET"

PTC-34 BOARD

1-622-259-11 o PRINTED CIRCUIT BOARD, PTC-34

IC1 8-719-940-86 s GP1L53 "FR UNTHREAD END DET"

PTC-35 BOARD

1-622-218-11 o PRINTED CIRCUIT BOARD, PTC-35

IC1A 8-719-940-86 s GP1L53 "TAKE-UP ROTATION DET"
 IC1B 8-719-940-86 s GP1L53 "SUPPLY ROTATION DET"

RM-39 BOARD

1-618-873-11 o PRINTED CIRCUIT BOARD, RM-39

C1 1-101-006-00 s CERAMIC 0.047 50V
 C2 1-101-006-00 s CERAMIC 0.047 50V

L1 1-410-623-11 s 4.7uH
 L2 1-410-623-11 s 4.7uH

M1006 8-835-178-01 s DC FN30-T26N1E "REEL"

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No. Parts No. SP Description

RP-31A BOARD

A-6711-823-A o MOUNTED CIRCUIT BOARD, RP-31A

C10	1-161-021-11	s	CERAMIC	0.047	10%	25V
C11	1-124-236-00	s	ELECT	47	20%	16V
C14	1-124-255-00	s	ELECT	1	20%	50V
C16	1-161-021-11	s	CERAMIC	0.047	10%	25V
C17	1-124-236-00	s	ELECT	47	20%	16V
C20	1-124-255-00	s	ELECT	1	20%	50V
CN121	1-564-005-00	s	6P			
CN124	1-564-005-00	s	6P			
CP1	1-560-914-00	s	2P			
CP2	1-560-914-00	s	2P			
CS1	1-561-724-00	o	2P			
CS2	1-561-724-00	o	2P			
IC3	8-741-126-50	s	BX-1265 (SONY)			
IC6	8-741-126-50	s	BX-1265 (SONY)			
L3	1-410-482-31	s	100uH			
L4	1-410-482-31	s	100uH			
Q3	8-729-600-24	s	2SC403-51			
Q5	8-729-600-24	s	2SC403-51			
RV4	1-228-991-00	s	VAR, CARBON 2.2k			
RV6	1-228-991-00	s	VAR, CARBON 2.2k			
T3	1-426-319-11	s	PB RF			
T5	1-426-319-00	s	PB RF			

SE-46 BOARD

1-618-599-11 o PRINTED CIRCUIT BOARD, SE-46

PC1 1-806-232-21 s DETECTOR MB-1102/S.M

Ref No. Parts No. SP Description

SV-93A BOARD

 A-6715-364-A o MOUNTED CIRCUIT BOARD, SV-93A

C3	1-124-499-11	s	ELECT	1	20%	50V
C6	1-161-377-00	s	CERAMIC	0.0047	30%	16V
C7	1-161-374-11	s	CERAMIC	0.0015	30%	16V
C8	1-130-493-00	s	MYLAR	0.068	5%	50V
C10	1-131-350-00	s	TANTALUM	3.3	10%	35V
C12	1-162-299-21	s	CERAMIC	0.0068	30%	16V
C14	1-161-021-11	s	CERAMIC	0.047	10%	25V
C17	1-161-057-00	s	CERAMIC	0.033	10%	25V
C18	1-161-013-00	s	CERAMIC	0.01	10%	25V
C19	1-161-013-00	s	CERAMIC	0.01	10%	25V
C104	1-162-215-31	s	CERAMIC	47PF	5%	50V
C106	1-161-047-00	s	CERAMIC	0.0047	10%	25V
C111	1-161-042-00	s	CERAMIC	0.0018	10%	25V
C112	1-161-042-00	s	CERAMIC	0.0018	10%	25V
C116	1-162-286-31	s	CERAMIC	220PF	10%	50V
C120	1-162-288-31	s	CERAMIC	330PF	10%	50V
C203	1-162-211-31	s	CERAMIC	33PF	5%	50V
C204	1-162-211-31	s	CERAMIC	33PF	5%	50V
C301	1-161-013-00	s	CERAMIC	0.01	10%	25V
C302	1-161-040-00	s	CERAMIC	0.0012	10%	25V
C303	1-130-483-00	s	MYLAR	0.01	5%	50V
C306	1-162-286-31	s	CERAMIC	220PF	10%	50V
C307	1-162-286-31	s	CERAMIC	330PF	10%	50V
C308	1-161-013-00	s	CERAMIC	0.01	10%	25V
C309	1-161-013-00	s	CERAMIC	0.01	10%	25V
C312	1-124-499-11	s	ELECT	1	20%	50V
C409	1-161-379-00	s	CERAMIC	0.01	30%	16V
C410	1-161-379-00	s	CERAMIC	0.01	30%	16V
C411	1-162-207-31	s	CERAMIC	22PF	5%	50V
C412	1-162-282-31	s	CERAMIC	100PF	10%	50V
C413	1-162-284-31	s	CERAMIC	150PF	10%	50V
C418	1-162-282-31	s	CERAMIC	100PF	10%	50V
C422	1-124-464-11	s	ELECT	0.22	20%	50V
C423	1-162-289-31	s	CERAMIC	390PF	10%	50V
C430	1-124-463-00	s	ELECT	0.1	20%	50V
C433	1-124-499-11	s	ELECT	1	20%	50V
C507	1-162-282-31	s	CERAMIC	100PF	10%	50V
C702	1-161-379-00	s	CERAMIC	0.01	30%	16V
C703	1-161-379-00	s	CERAMIC	0.01	30%	16V
C704	1-161-379-00	s	CERAMIC	0.01	30%	16V
C705	1-161-379-00	s	CERAMIC	0.01	30%	16V
C709	1-161-379-00	s	CERAMIC	0.01	30%	16V
C710	1-161-379-00	s	CERAMIC	0.01	30%	16V
C711	1-161-379-00	s	CERAMIC	0.01	30%	16V
C712	1-161-379-00	s	CERAMIC	0.01	30%	16V
C714	1-161-379-00	s	CERAMIC	0.01	30%	16V
C716	1-161-379-00	s	CERAMIC	0.01	30%	16V
C718	1-161-379-00	s	CERAMIC	0.01	30%	16V
C719	1-161-039-00	s	CERAMIC	0.001	10%	25V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description	Ref No.	Parts No.	SP	Description
D1	8-719-911-19	*	1SS119	Q1	8-729-178-55	*	2SC2785-E
D2	8-719-911-19	*	1SS119	Q2	8-729-117-54	*	2SA1175-K
D3	8-719-911-19	*	1SS119	Q3	8-729-376-84	*	2SA768-G
D5	8-719-911-19	*	1SS119	Q4	8-729-804-91	*	2SD1682-3
D7	8-719-911-55	*	U05G	Q5	8-729-177-43	*	2SD774-4
D101	8-719-911-19	*	1SS119	Q101	8-729-900-83	*	DTC124XS
D103	8-719-911-19	*	1SS119	Q102	8-729-178-55	*	2SC2785-E
D104	8-719-911-19	*	1SS119	Q103	8-729-900-83	*	DTC124XS
D105	8-719-911-19	*	1SS119	Q104	8-729-117-54	*	2SA1175-K
D106	8-719-911-19	*	1SS119	Q106	8-729-178-55	*	2SC2785-E
D107	8-719-911-19	*	1SS119	Q107	8-729-105-72	*	2SK523-L1
D108	8-719-911-19	*	1SS119	Q108	8-729-900-83	*	DTC124XS
D109	8-719-911-19	*	1SS119	Q109	8-729-900-89	*	DTC144ES
D110	8-719-911-19	*	1SS119	Q110	8-729-178-55	*	2SC2785-E
D111	8-719-911-19	*	1SS119	Q111	8-729-376-84	*	2SA768-G
D112	8-719-911-19	*	1SS119	Q112	8-729-117-54	*	2SA1175-K
D113	8-719-911-19	*	1SS119	Q113	8-729-804-91	*	2SD1682-3
D204	8-719-911-19	*	1SS119	Q114	8-729-900-67	*	DTA124XS
D205	8-719-911-19	*	1SS119	Q201	8-729-900-83	*	DTC124XS
D206	8-719-911-19	*	1SS119	Q202	8-729-900-83	*	DTC124XS
D207	8-719-911-19	*	1SS119	Q203	8-729-900-83	*	DTC124XS
D208	8-719-911-19	*	1SS119	Q204	8-729-900-83	*	DTC124XS
D210	8-719-100-15	*	RD3.0E-B2	Q205	8-729-900-83	*	DTC124XS
D211	8-719-911-19	*	1SS119	Q206	8-729-900-83	*	DTC124XS
D301	8-719-911-19	*	1SS119	Q304	8-729-178-55	*	2SC2785-E
D401	8-719-911-19	*	1SS119	Q401	8-729-178-55	*	2SC2785
D402	8-719-911-19	*	1SS119	Q403	8-729-178-55	*	2SC2785
D405	8-719-911-19	*	1SS119	Q404	8-729-178-55	*	2SC2785
D406	8-719-911-19	*	1SS119	Q408	8-729-600-24	*	2SC403-51
D407	8-719-911-19	*	1SS119	Q411	8-729-178-55	*	2SC2785-E
D408	8-719-911-19	*	1SS119	Q412	8-729-178-55	*	2SC2785-E
D409	8-719-911-19	*	1SS119	Q501	8-729-600-24	*	2SC403SP-51
D410	8-719-911-19	*	1SS119				
D411	8-719-911-19	*	1SS119				
IC1	8-759-132-40	*	UPC324C (NEC)	R12	1-247-895-00	*	CARBON 470k 5% 1/4W
IC2	8-759-700-08	*	NJM4558S (JRC)	R13	1-247-881-00	*	CARBON 120k 5% 1/4W
IC3	8-759-705-58	*	NJM4558D-D (JRC)	R17	1-247-895-00	*	CARBON 470k 5% 1/4W
IC5	8-759-140-53	*	UPD4053BC (NEC)	R33	1-247-849-00	*	CARBON 5.6k 5% 1/4W
IC8	8-759-132-40	*	UPC324C (NEC)	R35	1-247-891-00	*	CARBON 330k 5% 1/4W
IC9	8-759-132-40	*	UPC324C (NEC)	△R42	1-207-621-00	*	WIREWOUND 1.5 10% 3W
IC10	8-759-133-90	*	UPC339C (NEC)	R125	1-247-887-00	*	CARBON 220k 5% 1/4W
IC11	8-759-240-30	*	TC4030BP (TOSHIBA)	R147	1-247-895-00	*	CARBON 470k 5% 1/4W
IC12	8-759-135-80	*	UPC358C (NEC)	R151	1-247-891-00	*	CARBON 330k 5% 1/4W
IC13	8-759-140-53	*	UPD4053BC (NEC)	R162	1-247-895-00	*	CARBON 470k 5% 1/4W
IC14	8-759-205-76	*	TC504013BP (TOSHIBA)	R172	1-247-891-00	*	CARBON 330k 5% 1/4W
IC15	8-759-200-01	*	TC4001UBP (TOSHIBA)	R176	1-247-887-00	*	CARBON 220k 5% 1/4W
IC17	8-751-941-05	*	CX-194B-5 (SONY)	R178	1-247-895-00	*	CARBON 470k 5% 1/4W
IC18	8-759-945-41	*	MB88505-547M (FUJITSU)	R260	1-247-895-00	*	CARBON 470k 5% 1/4W
IC19	8-759-240-30	*	TC4030BP (TOSHIBA)	R306	1-247-895-00	*	CARBON 470k 5% 1/4W
IC20	8-759-140-53	*	UPD4053BC (NEC)	R311	1-247-895-00	*	CARBON 470k 5% 1/4W
IC21	8-743-915-10	*	BK-3915A (SONY)	R414	1-247-744-11	*	CARBON 270k 5% 1/2W
IC22	8-759-135-80	*	UPC358C (NEC)	△R461	1-207-636-00	*	WIREWOUND 100 10% 3W
				R507	1-247-849-00	*	CARBON 5.6k 5% 1/4W

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
RV1	1-228-994-00	s	VAR, CARBON 10k
RV3	1-228-990-00	s	VAR, CARBON 1k
RV100	1-228-993-00	s	VAR, CARBON 4.7k
RV101	1-228-994-00	s	VAR, CARBON 10k
RV102	1-228-994-00	s	VAR, METAL GLAZE 10k
RV106	1-228-993-00	s	VAR, CARBON 4.7k
RV107	1-228-995-00	s	VAR, CARBON 22k
RV201	1-228-990-00	s	VAR, CARBON 1k
RV401	1-228-996-00	s	VAR, CARBON 47k
RV403	1-228-996-00	s	VAR, CARBON 47k
RV405	1-228-996-00	s	VAR, CARBON 47k
RV407	1-228-997-00	s	VAR, CARBON 100k
X1	1-527-376-00	s	CRYSTAL 3.58MHz
X2	1-527-734-00	s	CRYSTAL 6MHz

SY-106A BOARD

A-6717-454-A MOUNTED CIRCUIT BOARD, SY-106A

C2	1-161-021-11	s	CERAMIC 0.047 10% 25V
C3	1-161-013-00	s	CERAMIC 0.01 10% 25V
C4	1-161-041-00	s	CERAMIC 0.0015 10% 25V
C5	1-161-013-00	s	CERAMIC 0.01 10% 25V
C6	1-161-055-00	s	CERAMIC 0.022 10% 25V
C10	1-162-286-31	s	CERAMIC 220PF 10% 50V
C11	1-124-499-11	s	ELECT 1 20% 50V
C14	1-162-286-31	s	CERAMIC 220PF 10% 50V
C15	1-161-020-11	s	CERAMIC 0.039 10% 25V
C17	1-124-499-11	s	ELECT 1 20% 50V
C18	1-131-358-00	s	TANTALUM 6.8 10% 25V
C19	1-161-013-00	s	CERAMIC 0.01 10% 25V
C20	1-161-057-00	s	CERAMIC 0.033 10% 25V
C21	1-161-013-00	s	CERAMIC 0.01 10% 25V
C22	1-162-216-31	s	CERAMIC 51PF 5% 50V
C23	1-124-499-11	s	ELECT 1 20% 50V
C24	1-161-021-11	s	CERAMIC 0.047 10% 25V
C30	1-124-499-11	s	ELECT 1 20% 50V
C31	1-161-039-00	s	CERAMIC 0.001 10% 25V
C32	1-162-211-31	s	CERAMIC 33PF 5% 50V
C33	1-161-021-11	s	CERAMIC 0.047 10% 25V
C34	1-161-039-00	s	CERAMIC 0.001 10% 25V
C36	1-161-021-11	s	CERAMIC 0.047 10% 25V
C37	1-162-211-31	s	CERAMIC 33PF 5% 50V
C38	1-161-055-00	s	CERAMIC 0.022 10% 25V
C42	1-161-021-11	s	CERAMIC 0.047 10% 25V
C46	1-162-290-31	s	CERAMIC 470PF 10% 50V
C47	1-162-210-31	s	CERAMIC 30PF 5% 50V
C48	1-162-210-31	s	CERAMIC 30PF 5% 50V
C49	1-124-499-11	s	ELECT 1 20% 50V
C50	1-124-499-11	s	ELECT 1 20% 50V
C55	1-162-290-31	s	CERAMIC 470PF 10% 50V

Ref No.	Parts No.	SP	Description
CN505	1-506-815-11	o	HOUSING, BOARD IN CONNECTOR 6P
	1-563-180-11	o	HOUSING, CONNECTOR 6P
CN507	1-506-821-11	o	HOUSING, BOARD IN CONNECTOR 12P
	1-563-186-11	o	HOUSING, CONNECTOR 12P
CN508	1-506-821-11	o	HOUSING, BOARD IN CONNECTOR 12P
	1-563-186-11	o	HOUSING, CONNECTOR 12P
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
D8	8-719-911-19	s	1SS119
D9	8-719-911-19	s	1SS119
D10	8-719-911-19	s	1SS119
D11	8-719-911-19	s	1SS119
D12	8-719-911-19	s	1SS119
D13	8-719-911-19	s	1SS119
D14	8-719-911-19	s	1SS119
D15	8-719-911-19	s	1SS119
D16	8-719-911-19	s	1SS119
D17	8-719-911-19	s	1SS119
D18	8-719-911-19	s	1SS119
D20	8-719-911-19	s	1SS119
D21	8-719-911-55	s	U05-G
D22	8-719-911-55	s	U05-G
D23	8-719-911-55	s	U05-G
D24	8-719-911-19	s	1SS119
D25	8-719-911-19	s	1SS119
D26	8-719-911-19	s	1SS119
D31	8-719-911-19	s	1SS119
D32	8-719-911-19	s	1SS119
D33	8-719-911-19	s	1SS119
D43	8-719-101-97	s	1SS97-1
IC1	8-759-145-58	s	UPC4558C (NEC)
IC2	8-759-145-58	s	UPC4558C (NEC)
IC3	8-759-345-38	s	HD14538BP (HITACHI)
IC4	8-759-135-80	s	UPC358C (NEC)
IC5	8-759-145-58	s	UPC4558C (NEC)
IC7	8-759-945-39	s	MB88525-177M (FUJITSU)
IC8	8-759-729-03	s	NJM2903D (JRC)
IC9	8-759-600-24	s	M54543L (MITSUBISHI)
IC10	8-759-600-24	s	M54543L (MITSUBISHI)
IC11	8-759-240-69	s	TC4069UBP (TOSHIBA)
IC12	8-759-945-43	s	MB88505-549M (FUJITSU)
IC13	8-759-220-00	s	TC40H000P (TOSHIBA)
IC14	8-759-913-99	s	MB88201-173N (FUJITSU)
IC15	8-759-729-03	s	NJM2903D (JRC)
IC17	8-759-240-01	s	TC4001BP (TOSHIBA)
IC18	8-759-240-69	s	TC4069UBP (TOSHIBA)
IC19	8-759-345-38	s	HD14538BP (HITACHI)
IC20	8-759-202-55	s	TC74HC244P (TOSHIBA)

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Ref No. Parts No. SP Description

Q1 8-729-177-43 * 2SD774-4
 Q3 8-729-889-40 * 2SD894
 Q4 8-729-178-55 * 2SC2785-E
 Q5 8-729-178-55 * 2SC2785-E
 Q6 8-729-178-55 * 2SC2785-E

Q7 8-729-178-55 * 2SC2785-E
 Q8 8-729-178-55 * 2SC2785-E
 Q9 8-729-900-89 * DTC144ES
 Q10 8-729-117-54 * 2SA1175-K
 Q11 8-729-900-89 * DTC144ES

Q12 8-729-175-54 * 2SA1175-K
 Q13 8-729-900-89 * DTC144ES
 Q14 8-729-900-89 * DTC144ES
 Q15 8-729-178-55 * 2SC2785-E
 Q16 8-729-178-55 * 2SC2785-E

Q17 8-729-900-89 * DTC144ES
 Q18 8-729-900-89 * DTC144ES
 Q19 8-729-900-89 * DTC144ES
 Q20 8-729-178-55 * 2SC2785-E
 Q23 8-729-900-89 * DTC144ES

Q24 8-729-900-89 * DTC144ES
 Q26 8-729-178-55 * 2SC2785-E
 Q27 8-729-178-55 * 2SC2785-E
 Q28 8-729-117-54 * 2SA1175-K
 Q29 8-729-178-55 * 2SC2785-E

Q31 8-729-178-55 * 2SC2785-E
 Q35 8-729-398-62 * 2SC1986
 Q36 8-729-900-89 * DTC144ES
 Q37 8-729-900-89 * DTC144ES
 Q38 8-729-900-89 * DTC144ES

Q41 8-729-900-89 * DTC144ES
 Q42 8-729-900-89 * DTC144ES
 Q43 8-729-900-89 * DTC144ES
 Q44 8-729-811-11 * 2SD1111

A R11 1-207-674-00 * WIREWOUND 4.7 10% 6W

R13 1-247-895-00 * CARBON 470k 5% 1/4W
 R24 1-247-895-00 * CARBON 470k 5% 1/4W
 R32 1-247-891-00 * CARBON 330k 5% 1/4W
 R33 1-247-883-00 * CARBON 150k 5% 1/4W

R38 1-247-891-00 * CARBON 330k 5% 1/4W
 R40 1-247-887-00 * CARBON 220k 5% 1/4W
 R41 1-247-701-11 * CARBON 120 5% 1/4W
 R47 1-247-881-00 * CARBON 120k 5% 1/4W
 R48 1-247-881-00 * CARBON 120k 5% 1/4W

R76 1-247-887-00 * CARBON 220k 5% 1/4W
 R85 1-247-887-00 * CARBON 220k 5% 1/4W
 R112 1-246-449-23 * CARBON 100 5% 1/4W
 R159 1-214-853-00 * METAL 360 1% 1/2W
 R160 1-214-852-00 * METAL 330 1% 1/2W

R189 1-247-887-00 * CARBON 220k 5% 1/4W
 R192 1-532-637-00 * LINK, IC
 R201 1-532-605-00 * LINK, IC
 R204 1-532-637-00 * LINK, IC
 R300 1-532-769-21 * FUSE, MICRO 0.2A

Ref No. Parts No. SP Description

RV1 1-230-722-11 * VAR, CARBON 22k
 RV2 1-230-720-11 * VAR, CARBON 4.7k
 RV3 1-230-720-11 * VAR, CARBON 4.7k
 RV4 1-230-722-11 * VAR, CARBON 22k

SW1 1-552-509-00 * DIP

X1 1-567-143-00 * CERAMIC 6MHz
 X2 1-567-192-11 * CERAMIC 4MHz

TG-22 BOARD

1-618-597-11 * PRINTED CIRCUIT BOARD, TG-22

D1 8-719-904-55 * GL-5HD5

UR-14 BOARD

A 1-413-248-11 * SWITCHING REGULATOR, UR-14

A C101 1-161-742-00 * CERAMIC 2200PF 20% 400V
 C102 1-161-742-00 * CERAMIC 2200PF 20% 400V
 C103 1-161-742-00 * CERAMIC 2200PF 20% 400V
 C104 1-161-742-00 * CERAMIC 2200PF 20% 400V
 C105 1-136-212-00 * MYLAR 0.1 20% 250V
 C106 1-136-212-00 * MYLAR 0.1 20% 250V
 C107 1-161-742-00 * CERAMIC 2200PF 20% 400V
 C108 1-161-742-00 * CERAMIC 2200PF 20% 400V

C109 1-124-961-00 * ELECT 220 20% 200V
 C110 1-124-023-00 * ELECT 4.7 20% 350V

C111 1-124-023-00 * ELECT 4.7 20% 350V
 C112 1-124-549-00 * ELECT 100 20% 10V
 C113 1-124-961-00 * ELECT 220 20% 200V
 C114 1-124-549-00 * ELECT 100 20% 10V
 C201 1-108-413-00 * MYLAR 2200PF 10% 200V

C202 1-108-413-00 * MYLAR 2200PF 10% 200V
 C203 1-161-825-11 * CERAMIC 220PF 10% 500V
 C204 1-161-825-11 * CERAMIC 220PF 10% 500V
 C205 1-161-825-11 * CERAMIC 220PF 10% 500V
 C206 1-161-825-11 * CERAMIC 220PF 10% 500V

C207 1-123-357-00 * ELECT 22 20% 50V
 C209 1-108-413-00 * MYLAR 2200PF 10% 200V
 C210 1-136-153-00 * MYLAR 0.01 5% 50V
 C211 1-130-516-00 * MYLAR 0.01 5% 50V
 C212 1-124-556-00 * ELECT 2200 20% 16V

C213 1-124-556-00 * ELECT 2200 20% 16V
 C214 1-124-556-00 * ELECT 2200 20% 16V
 C215 1-124-556-00 * ELECT 2200 20% 16V
 C216 1-123-326-00 * ELECT 3300 20% 16V
 C217 1-123-332-00 * ELECT 47 20% 50V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
C651	1-124-445-00	•	ELECT 100 20Z 16V
C652	1-130-591-11	•	MYLAR 3300PF 2Z 100V
C653	1-136-141-00	•	MYLAR 1000PF 10Z 50V
C654	1-136-165-00	•	MYLAR 0.1 5Z 50V
C655	1-123-318-00	•	ELECT 33 16V

△	CN101	1-560-436-00	•	RECEPTACLE, 3P
		1-561-218-11	•	HOUSING, 3P
		1-561-254-11	•	CONTACT

CN201	1-560-438-00	•	RECEPTACLE, 5P
	1-561-424-11	•	HOUSING, 5P
	1-561-254-11	•	CONTACT

D101	8-719-300-00	•	LB-156
D201	8-719-908-00	•	ESAC33-02CS
D202	8-719-908-00	•	ESAC33-02CS
D203	8-719-900-93	•	V09C
D204	8-719-900-93	•	V09C

D205	8-719-815-55	•	1S1555
D206	8-719-100-61	•	RD11EB2
D208	8-719-101-67	•	RD7.5EB2
D209	8-719-100-30	•	RD5.1EB2
D210	8-719-100-30	•	RD5.1EB2

D651	8-719-200-02	•	10E-2
D652	8-719-100-70	•	RD15EB1
D653	8-719-815-55	•	1S1555

FB101	1-543-060-00	•	CORE
FB102	1-543-060-00	•	CORE
FB201	1-543-060-00	•	CORE
FB202	1-543-060-00	•	CORE
FB203	1-543-060-00	•	CORE

FB204	1-543-060-00	•	CORE
FB205	1-543-060-00	•	CORE
FB206	1-543-060-00	•	CORE
FB207	1-543-060-00	•	CORE
FB208	1-543-060-00	•	CORE

FB209	1-543-060-00	•	CORE
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IC651	8-759-937-00	•	MB3759 (FUJITSU)
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△	L101	1-421-848-11	•	LINE FILTER
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L201	1-421-849-11	•	CHOKE, 2.4mH
L203	1-408-316-00	•	CHOKE
L204	1-421-850-11	•	CHOKE, 12
L205	1-421-329-00	•	CHOKE

Ref No.	Parts No.	SP	Description
Q101	8-729-901-72	•	2SC3317
Q102	8-729-901-72	•	2SC3317
Q103	8-729-100-13	•	2SC2001
Q104	8-729-100-13	•	2SC2001
Q201	8-729-600-27	•	2SC2603-F
Q202	8-729-117-54	•	2SA1175-F

R101	1-214-947-00	•	METAL 2.7M 1Z 1/2W
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△	R102	1-205-715-11	•	CEMENT 3.3 5Z 5W
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R103	1-246-529-00	•	CARBON 220k 5Z 1/4W
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R104	1-246-529-00	•	CARBON 220k 5Z 1/4W
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△	R105	1-212-934-00	•	METAL 1 5Z 1/2W
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R106	1-247-107-00	•	NF CARBON 100 5Z 1/5W
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R107	1-246-529-00	•	CARBON 220k 5Z 1/4W
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R108	1-246-529-00	•	CARBON 220k 5Z 1/4W
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△	R109	1-212-934-00	•	METAL 1 5Z 1/2W
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R110	1-247-107-00	•	NF CARBON 100 5Z 1/4W
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△	R111	1-205-715-00	•	CEMENT 3.3 5Z 5W
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R201	1-206-475-00	•	METAL 33 5Z 2W
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R202	1-535-369-00	•	SHUNT
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△	R203	1-213-151-00	•	METAL 4.7k 5Z 5W
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R204	1-247-131-00	•	NF CARBON 1k 5Z 1/4W
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R205	1-247-143-00	•	NF CARBON 3.3k 5Z 1/4W
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R206	1-249-455-11	•	NF CARBON 4.7k 5Z 1/4W
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R207	1-247-139-00	•	NF CARBON 2.2k 5Z 1/4W
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R208	1-247-123-00	•	NF CARBON 470 5Z 1/4W
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R209	1-247-115-00	•	NF CARBON 220 5Z 1/4W
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R212	1-247-224-00	•	NF CARBON 220 5Z 1/2W
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R651	1-249-425-11	•	NF CARBON 4.7k 5Z 1/6W
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RV651	1-228-644-00	•	VAR, METAL 1k 0.3W
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△	T101	1-448-423-11	•	CONVERTER
	T102	1-437-120-00	•	DRIVE

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description	Ref No.	Parts No.	SP	Description
VP-21A BOARD							
	A-6711-822-A	o	MOUNTED CIRCUIT BOARD, VP-21A	D1	8-719-104-31	s	1S2837
				D3	8-719-104-31	s	1S2837
				D4	8-719-911-19	s	1S8119
				D5	8-719-911-19	s	1S8119
				D6	8-719-911-19	s	1S8119
C29	1-162-215-31	s	CERAMIC 47PF 5% 50V	D7	8-719-911-19	s	1S8119
C41	1-126-103-11	s	ELECT 470 20% 16V	D8	8-719-101-97	s	1S897-1
C47	1-162-217-31	s	CERAMIC 56PF 5% 50V	D9	8-719-101-97	s	1S897-1
C48	1-124-499-11	s	ELECT 1 20% 50V	D201	8-719-104-10	s	1S899
C49	1-124-499-11	s	ELECT 1 20% 50V	D202	8-719-104-10	s	1S899
C59	1-124-499-11	s	ELECT 1 20% 50V	D203	8-719-104-10	s	1S899
C60	1-124-499-11	s	ELECT 1 20% 50V	D204	8-719-104-10	s	1S899
C87	1-163-033-00	s	CERAMIC CHIP 0.022 50V	D205	8-719-815-59	s	1S1555-S
C96	1-124-499-11	s	ELECT 1 20% 50V	D206	8-719-915-43	s	PC54M
C106	1-163-033-00	s	CERAMIC CHIP 0.022 50V	D207	8-719-815-59	s	1S1555-S
C111	1-107-026-00	s	MICA 5.1PF 0.5PF 500V	D208	8-719-911-19	s	1S8119
C114	1-107-026-00	s	MICA 5.1PF 0.5PF 500V	D209	8-719-911-19	s	1S8119
C115	1-163-033-00	s	CERAMIC CHIP 0.022 50V	D211	8-719-815-59	s	1S1555-S
C117	1-163-033-00	s	CERAMIC CHIP 0.022 50V	D212	8-719-815-59	s	1S1555-S
C122	1-163-033-00	s	CERAMIC CHIP 0.022 50V	D213	8-719-911-19	s	1S8119
C124	1-124-499-11	s	ELECT 1 20% 50V	D214	8-719-911-19	s	1S8119
C130	1-161-379-00	s	CERAMIC 0.01 30% 16V	D215	8-719-911-19	s	1S8119
C203	1-124-499-11	s	ELECT 1 20% 50V	D216	8-719-911-19	s	1S8119
C207	1-124-499-11	s	ELECT 1 20% 50V	D217	8-719-911-19	s	1S8119
C211	1-163-033-00	s	CERAMIC CHIP 0.022 50V	DL1	1-415-162-21	s	50ns
C213	1-163-033-00	s	CERAMIC CHIP 0.022 50V	DL2	1-415-154-21	s	35ns
C214	1-163-033-00	s	CERAMIC CHIP 0.022 50V				
C224	1-161-379-00	s	CERAMIC 0.01 30% 16V	FL1	1-231-581-21	s	HIGH PASS
C233	1-102-761-00	s	CERAMIC 75PF 5% 50V	FL2	1-235-623-11	s	HIGH PASS
C254	1-131-363-00	s	TANTALUM 4.7 10% 16V	FL3	1-236-039-11	s	LOW PASS
C255	1-131-405-00	s	ELECT (SOLID) 0.33 5% 25V	FL4	1-236-037-11	s	LOW PASS
C265	1-127-475-00	s	ELECT (SOLID) 0.22 5% 25V	FL5	1-235-474-11	s	LOW PASS
C269	1-124-499-11	s	ELECT 1 20% 50V	FL6	1-235-617-11	s	LOW PASS
C271	1-161-379-00	s	CERAMIC 0.01 30% 16V	FL200	1-409-428-11	s	TRAP
C275	1-131-347-00	s	TANTALUM 1 10% 35V	FL201	1-236-038-11	s	BAND PASS
C276	1-131-379-00	s	TANTALUM 22 10% 10V	FL203	1-236-036-11	s	BAND PASS
C277	1-131-347-00	s	TANTALUM 1 10% 35V				
C278	1-131-379-00	s	TANTALUM 22 10% 10V	IC1	8-751-340-10	s	CX-134A (SONY)
C283	1-107-096-00	s	MICA 300PF 5% 50V	IC2	8-741-114-00	s	BX-1140 (SONY)
C285	1-107-096-00	s	MICA 300PF 5% 50V	IC3	8-759-708-05	s	NJM78L05 (JRC)
C290	1-131-361-00	s	TANTALUM 2.2 10% 16V	IC4	8-741-124-80	s	BX-1248 (SONY)
C293	1-131-349-00	s	TANTALUM 2.2 10% 35V	IC5	8-751-350-10	s	CX-135 (SONY)
C295	1-163-033-00	s	CERAMIC CHIP 0.022 50V	IC6	8-752-321-75	s	CXL5005P (SONY)
C405	1-107-162-00	s	MICA 43PF 5% 500V	IC7	8-759-927-56	s	BA7021 (ROHM)
C406	1-124-907-00	s	ELECT 10 20% 50V	IC8	8-759-708-09	s	NJM78L09A (JRC)
C407	1-123-875-11	s	ELECT 10 20% 50V	IC9	8-749-900-94	s	BX-1472 (SONY)
CN1002	1-563-356-11	s	CONNECTOR, MULTI 8P "TV"	IC10	8-743-880-00	s	BX-388 (SONY)
CN1003	1-563-354-11	o	BNC "VIDEO OUT-1"	IC11	8-759-200-60	s	TA7060AP (TOSHIBA)
CN1004	1-563-354-11	o	BNC "VIDEO OUT-2"	IC12	8-759-208-10	s	TC4053BP (TOSHIBA)
CN1005	1-563-354-11	o	BNC "RF OFF TAPE OUT"	IC13	8-749-900-68	s	BX-1447L (SONY)
CN1007	1-563-354-11	o	BNC "EXT SYNC IN"	IC14	8-759-208-17	s	TC4528BP (TOSHIBA)
CN1008	1-563-354-11	o	BNC "EXT SC IN"	IC15	8-749-900-59	s	BX-1448L (SONY)
CN1009	1-563-989-11	s	JACK, PIN (RCA) 1P "AUDIO MONITOR"	IC16	8-759-208-10	s	TC4053BP (TOSHIBA)
				IC17	8-749-938-90	s	BX-389 (SONY)
				IC18	8-759-240-01	s	TC4001BP (TOSHIBA)
				IC20	8-759-208-17	s	TC4528BP (TOSHIBA)
				IC201	8-750-000-46	s	CX-872 (SONY)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description	Ref No.	Parts No.	SP	Description
IC202	8-758-050-00	s	CX-805 (SONY)	Q42	8-729-271-22	s	2SC2712G
IC203	8-741-125-10	s	BX-1251 (SONY)	Q43	8-729-178-55	s	2SC2785-B
IC204	8-759-200-60	s	TA7060AP (TOSHIBA)	Q44	8-729-271-22	s	2SC2712G
IC205	8-759-208-10	s	TC4053BP (TOSHIBA)	Q45	8-729-901-01	s	DTC144EK
IC206	8-759-208-17	s	TC4528BP (TOSHIBA)	Q47	8-729-178-55	s	2SC2785-E
IC207	8-759-208-17	s	TC4528BP (TOSHIBA)	Q48	8-729-271-22	s	2SC2712G
IC208	8-752-006-10	s	CK20061 (SONY)	Q49	8-729-201-05	s	2SC2878-B
L3	1-410-087-31	s	10mH	Q50	8-729-271-22	s	2SC2712G
L4	1-410-087-31	s	10mH	Q51	8-729-216-22	s	2SA1162
L5	1-410-119-11	s	1mH	Q52	8-729-271-22	s	2SC2712G
L14	1-410-087-31	s	10mH	Q53	8-729-271-22	s	2SC2712G
LV1	1-407-569-00	s	COIL, VARIABLE 10mH	Q54	8-729-271-22	s	2SC2712G
LV2	1-407-268-00	s	MICRO INDUCTOR 1.5mH	Q55	8-729-216-22	s	2SA1162
Q1	8-729-178-55	s	2SC2785-B	Q56	8-729-271-22	s	2SC2712G
Q2	8-729-271-22	s	2SC2712G	Q57	8-729-271-22	s	2SC2712G
Q3	8-729-271-22	s	2SC2712G	Q58	8-729-216-22	s	2SA1162
Q4	8-729-271-22	s	2SC2712G	Q59	8-729-271-22	s	2SC2712G
Q5	8-729-271-22	s	2SC2712G	Q60	8-729-271-22	s	2SC2712G
Q6	8-729-271-22	s	2SC2712G	Q61	8-729-901-01	s	DTC144EK
Q7	8-729-113-33	s	2SB733-T-4	Q63	8-729-901-01	s	DTC144EK
Q8	8-729-901-01	s	DTC144EK	Q65	8-729-900-89	s	DTC144EK
Q9	8-729-901-01	s	DTC144EK	Q201	8-729-271-22	s	2SC2712G
Q10	8-729-271-22	s	2SC2712G	Q202	8-729-201-05	s	2SC2878-B
Q11	8-729-271-22	s	2SC2712G	Q203	8-729-201-05	s	2SC2878-B
Q12	8-729-901-01	s	DTC144EK	Q204	8-729-901-01	s	DTC144EK
Q13	8-729-901-01	s	DTC144EK	Q205	8-729-271-22	s	2SC2712G
Q15	8-729-271-22	s	2SC2712G	Q206	8-729-271-22	s	2SC2712G
Q16	8-729-271-22	s	2SC2712G	Q207	8-729-271-22	s	2SC2712G
Q17	8-729-271-22	s	2SC2712G	Q209	8-729-901-01	s	DTC144EK
Q18	8-729-201-05	s	2SC2878-B	Q210	8-729-271-22	s	2SC2712G
Q19	8-729-216-22	s	2SA1162	Q211	8-729-271-22	s	2SC2712G
Q20	8-729-271-22	s	2SC2712G	Q212	8-729-271-22	s	2SC2712G
Q21	8-729-216-22	s	2SA1162	Q213	8-729-271-22	s	2SC2712G
Q22	8-729-271-22	s	2SC2712G	Q214	8-729-271-22	s	2SC2712G
Q23	8-729-271-22	s	2SC2712G	Q215	8-729-271-22	s	2SC2712G
Q24	8-729-216-22	s	2SA1162	Q216	8-729-271-22	s	2SC2712G
Q25	8-729-901-01	s	DTC144EK	Q217	8-729-201-05	s	2SC2878-B
Q26	8-729-201-05	s	2SC2878-B	Q218	8-729-271-22	s	2SC2712G
Q27	8-729-901-01	s	DTC144EK	Q219	8-729-271-22	s	2SC2712G
Q28	8-729-201-05	s	2SC2878-B	Q220	8-729-201-05	s	2SC2878-B
Q29	8-729-901-01	s	DTC144EK	Q221	8-729-178-55	s	2SC2785-B
Q30	8-729-271-22	s	2SC2712G	Q223	8-729-201-05	s	2SC2878-B
Q31	8-729-271-22	s	2SC2712G	Q225	8-729-201-05	s	2SC2878-B
Q32	8-729-901-01	s	DTC144EK	Q226	8-729-201-05	s	2SC2878-B
Q33	8-729-271-22	s	2SC2712G	Q228	8-729-216-22	s	2SA1162
Q34	8-729-271-22	s	2SC2712G	Q230	8-729-201-05	s	2SC2878-B
Q35	8-729-271-22	s	2SC2712G	Q231	8-729-201-05	s	2SC2878-B
Q36	8-729-271-22	s	2SC2712G	Q401	8-729-600-24	s	2SC403SP-51
Q37	8-729-201-05	s	2SC2878-B	Q402	8-729-600-24	s	2SC403SP-51
Q38	8-729-901-01	s	DTC144EK	Q403	8-729-201-05	s	2SC2878-B
Q39	8-729-271-22	s	2SC2712G	R5	1-249-457-11	s	CARBON 6.8 5% 1/4W
Q40	8-729-271-22	s	2SC2712G				
Q41	8-729-901-01	s	DTC144EK				

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
RV1	1-228-991-00	•	VAR, CARBON 2.2k
RV2	1-228-991-00	•	VAR, CARBON 2.2k
RV3	1-228-991-00	•	VAR, CARBON 2.2k
RV4	1-228-991-00	•	VAR, CARBON 2.2k
RV5	1-228-989-00	•	VAR, CARBON 470
RV6	1-228-995-00	•	VAR, CARBON 22k
RV7	1-228-993-00	•	VAR, CARBON 4.7k
RV8	1-228-991-00	•	VAR, CARBON 2.2k
RV9	1-228-991-00	•	VAR, CARBON 2.2k
RV10	1-228-991-00	•	VAR, CARBON 2.2k
RV11	1-228-994-00	•	VAR, CARBON 10k
RV12	1-228-990-00	•	VAR, CARBON 1k
RV13	1-228-990-00	•	VAR, CARBON 1k
RV14	1-228-990-00	•	VAR, CARBON 1k
RV15	1-228-991-00	•	VAR, CARBON 2.2k
RV16	1-228-997-00	•	VAR, CARBON 100k
RV17	1-228-994-00	•	VAR, CARBON 10k
RV19	1-228-995-00	•	VAR, CARBON 22k
RV20	1-228-991-00	•	VAR, CARBON 2.2k
RV201	1-228-995-00	•	VAR, CARBON 22k
RV203	1-228-991-00	•	VAR, CARBON 2.2k
RV204	1-228-993-00	•	VAR, CARBON 4.7k
RV205	1-228-990-00	•	VAR, CARBON 1k
RV207	1-228-995-00	•	VAR, CARBON 22k
RV208	1-228-995-00	•	VAR, CARBON 22k
RV209	1-228-995-00	•	VAR, CARBON 22k
RV210	1-228-995-00	•	VAR, CARBON 22k
RV211	1-228-994-00	•	VAR, CARBON 10k
RV212	1-228-993-00	•	VAR, CARBON 4.7k
RV213	1-228-991-00	•	VAR, CARBON 2.2k
RV214	1-228-991-00	•	VAR, CARBON 2.2k
RV215	1-228-991-00	•	VAR, CARBON 2.2k
RV401	1-228-994-00	•	VAR, CARBON 10k

T1	1-425-785-21	•	BURST AMP (BAT)
X1	1-527-536-00	•	OSCILLATOR, CRYSTAL 3.58MHz

Ref No. Parts No. SP Description

FRAME

A-6709-605-A • HEAD DRUM ASSY, DUR-41A-R
 A-6709-602-A • UPPER DRUM ASSY, DUR-41-R

△ 1-413-248-11 • SWITCHING REGULATOR UR-14

1-464-801-11 • ENCODER, ROTARY

△ CN1001 1-534-517-00 • CORD, AC

CN1004 1-563-355-11 • JACK "REMOTE"
 CN1011 1-507-312-00 • RECEPTACLE 10P "RF MOD"
 CN1012 1-507-410-00 • RECEPTACLE (F TYPE) "RF OUT"
 CN1017 1-563-030-21 • CONNECTOR XLR 3P MALE

"AUDIO LINE OUT CH-1"
 CN1016 1-563-030-21 • CONNECTOR XLR 3P MALE
 "AUDIO LINE OUT CH-2"

CN1002 1-563-356-11 • CONNECTOR, MULTI SP "TV"
 CN1003 1-563-354-11 • BNC "VIDEO OUT-1"

CN1004 1-563-354-11 • BNC "VIDEO OUT-2"
 CN1005 1-563-354-11 • BNC "RF OFF TAPE OUT"
 CN1007 1-563-354-11 • BNC "EXT SYNC IN"
 CN1008 1-563-354-11 • BNC "EXT SC IN"

CN1009 1-563-989-11 • JACK, PIN (RCA) 1P "AUDIO MONITOR"

CS1001 1-586-633-00 • CONDENSATION SENSOR

△ F1 1-532-745-11 • FUSE, GLASS TUBE 3.15A 125V
 F2 1-532-744-11 • FUSE, GLASS TUBE 2.5A 125V
 F3 1-532-742-11 • FUSE, GLASS TUBE 1.6A 125V

PM1001 1-454-415-11 • SOLENOID, PLUNGER 12V 9.5/52 OHM
 "TAKE-UP IDLER"
 PM1002 1-454-417-31 • SOLENOID, PLUNGER 12V 12/90 OHM
 "TAKE-UP BRAKE"
 PM1004 1-454-415-11 • SOLENOID, PLUNGER 12V 9.5/52 OHM
 "SUPPLY IDLER"
 PM1005 1-454-417-31 • SOLENOID, PLUNGER 12V 12/90 OHM
 "SUPPLY BRAKE"
 PM1006 1-454-446-11 • SOLENOID, PLUNGER 12V 80 OHM
 "SKEW"
 PM1007 1-454-417-31 • SOLENOID, PLUNGER 12V 12/90 OHM
 "SEARCH"
 PM1008 1-454-416-31 • SOLENOID, PLUNGER 12V, 7/35 OHM
 "PINCH"

M1001 8-835-258-01 • DC, BNF-1915B "CAPSTAN"
 M1005 8-835-179-01 • DC, MCB2B15 "CASSETTE COMPARTMENT"
 M1006 8-835-178-01 • DC FN30-T26NIE "REEL"

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
ME1001	1-520-393-00	•	METER, AUDIO
ME1002	1-520-393-00	•	METER, AUDIO
RV1001	1-237-703-11	•	VAR, CARBON 2k/2k "HEADPHONES LEVEL"
RV1002	1-237-701-11	•	VAR, CARBON 5k "CH-1 REC"
RV1003	1-237-701-11	•	VAR, CARBON 5k "CH-2 REC"
RV1004	1-237-215-11	•	VAR, CARBON 100k "TRACKING"

△ S1001	1-570-117-31	•	SWITCH, ROCKER "AC POWER"
	1-509-898-00	•	RECEPTACLE
	1-509-910-00	•	HOUSING, CONNECTOR (2P)
	1-561-218-00	•	CONNECTOR SOCKET, 3P
	1-561-254-00	•	CONNECTOR CONTACT
S1002	1-552-271-00	•	SWITCH, SLIDE "TIMER"

15-4. PACKING MATERIAL AND ACCESSORIES (SUPPLIED)

Parts No.	SP	Description
3-662-364-00	•	BAG, PROTECTION
3-701-630-00	•	BAG, POLYETHYLENE
3-718-355-01	•	COVER, RF
3-718-359-01	•	CUSHION (UPPER)
3-718-360-01	•	CUSHION (LOWER)
3-718-409-01	•	INDIVIDUAL CARTON
3-769-145-21	•	MANUAL, INSTRUCTION

15-5. FIXTURE

Parts No.	SP	Description
J-6001-820-A	•	DRUM ECCENTRICITY GAUGE (3)
J-6001-830-A	•	DRUM ECCENTRICITY GAUGE (2)
J-6001-840-A	•	DRUM ECCENTRICITY GAUGE (1)
J-6001-930-A	•	DRUM ECCENTRICITY GAUGE (4)
J-6009-830-A	•	FLATNESS PLATE
J-6026-240-A	•	ADJUSTMENT DRIVER
J-6130-010-A	•	REEL TABLE HEIGHT CHECK BASE JIG
J-6130-020-A	•	REEL TABLE HEIGHT CHECK JIG
J-6153-020-A	•	DIHEDRAL ADJUSTMENT DRIVER
J-6150-140-A	•	ECCENTRICITY SCREWDRIVER 6 MM DIA.
J-6153-580-A	•	PINCH LEVER ADJUSTMENT JIG
Y-2031-001-0	•	CLEANING FLUID
Z-034-697-00	•	CLEANING PIECE
3-702-216-01	•	BACK TENSION ADJUSTMENT JIG
7-661-018-01	•	SONY OIL
7-732-050-20	•	TENSION SCALE (50g full scale)
7-732-050-30	•	TENSION SCALE (100g full scale)
7-732-050-40	•	TENSION SCALE (200g full scale)
7-732-050-50	•	TENSION SCALE (500g full scale)
8-899-999-53	•	TORQUE MEASUREMENT TAPE
8-960-015-04	•	ALIGNMENT TAPE RR5-3 SA
9-911-053-00	•	THICKNESS GAUGE