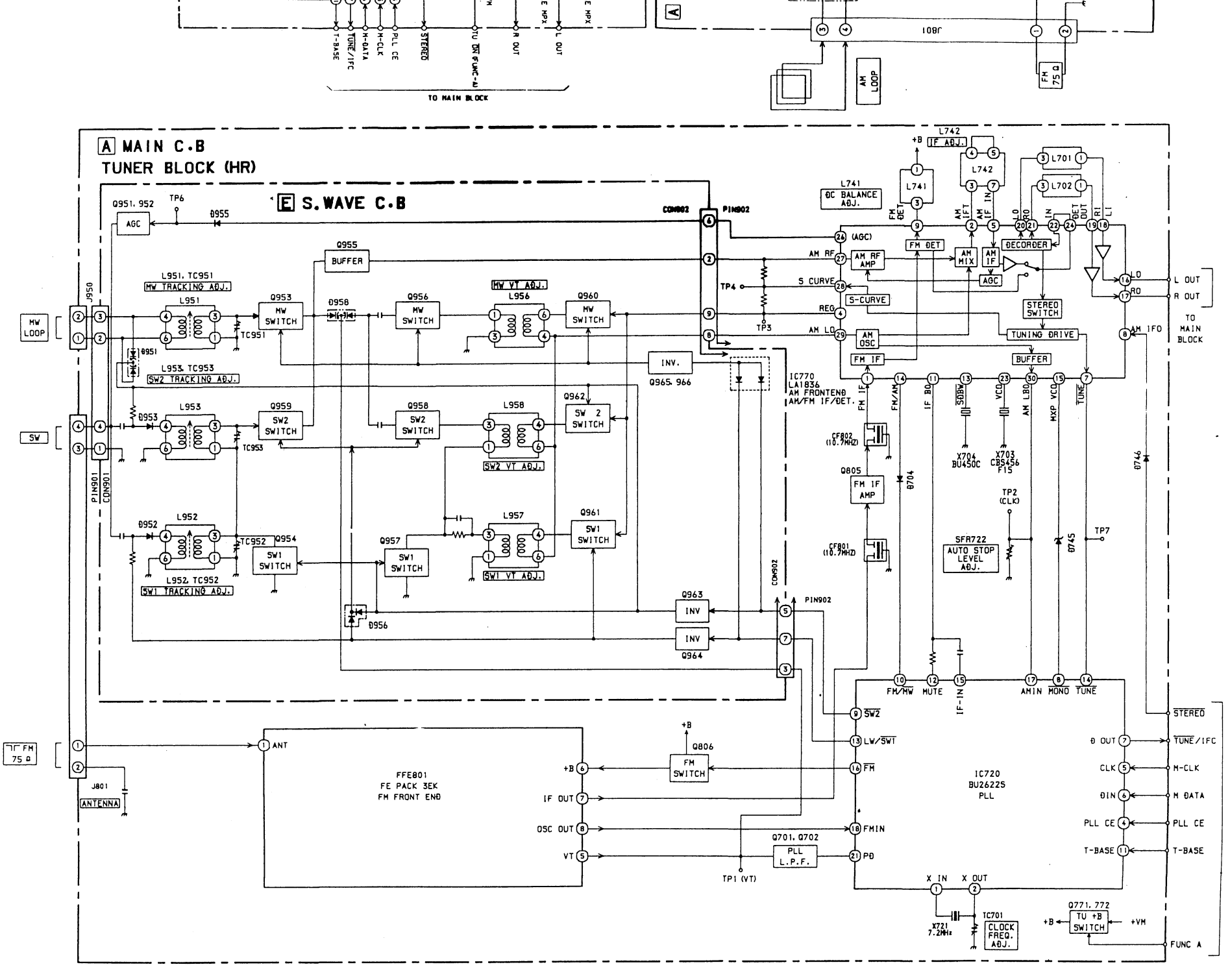
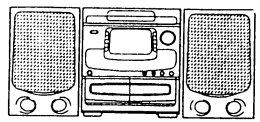

A MAIN C.B
TUNER BLOCK (HR)
E S.WAVE C.B
TO MAIN BLOCK
AM LOOP
FM 75 Ω
J801
L742
IF ADJ.
L741
DC BALANCE ADJ.
L701
L702
DECORDER
FM DET
AM RF AMP
AM MIX
AM IF
AGC
S-CURVE
STEREO SWITCH
TUNING DRIVE
BUFFER
AM OSC
FM IF
AM IFO
L OUT
R OUT
TO MAIN BLOCK
IC770
LA1836
AM FRONTEND
AM/FM IF/DET.
CF802 (10.7MHZ)
CF801 (10.7MHZ)
X704 BU450C
X703 CB5456 F15
FM IF AMP
SFR722
AUTO STOP LEVEL ADJ.
TP2 (CLK)
TP7
D704
D745
D746
MW LOOP
SW
J950
PIN901
CON901
L951, TC951
MW TRACKING ADJ.
L953, TC953
SW2 TRACKING ADJ.
L952, TC952
SW1 TRACKING ADJ.
MW SWITCH
SW2 SWITCH
SW1 SWITCH
SW 2 SWITCH
MW VT ADJ.
SW2 VT ADJ.
SW1 VT ADJ.
BUFFER
INV.
Q965, 966
Q963
Q964
D951
D952
D953
D956
D958
TC951
TC952
TC953
CON902
PIN902
TP3
TP4
TP6
AGC
S CURVE
REG
AM LO
AM RF
FM IF
FM/AM
IF BO
SDBW
VCO
AM LBO
MXP
TUNE
FM/MW
MUTE
IF-IN
AMIN
MONO
STEREO
TUNE/IFC
M-CLK
M DATA
PLL CE
T-BASE
FUNC A
TO MAIN BLOCK
IF FM 75 Ω
ANTENNA
FFE801
FE PACK 3EK
FM FRONT END
ANT
IF OUT
OSC OUT
VT
FM SWITCH
Q806
FMIN
PD
Q701, Q702
PLL L.P.F.
TP1 (VT)
IC720
BU2622S
PLL
X IN
X OUT
X721 7.2MHz
TC701
CLOCK FREQ. ADJ.
Q771, 772
TU +B SWITCH
+VM
SW2
LW/SW
FM
Θ OUT
CLK
ΘIN

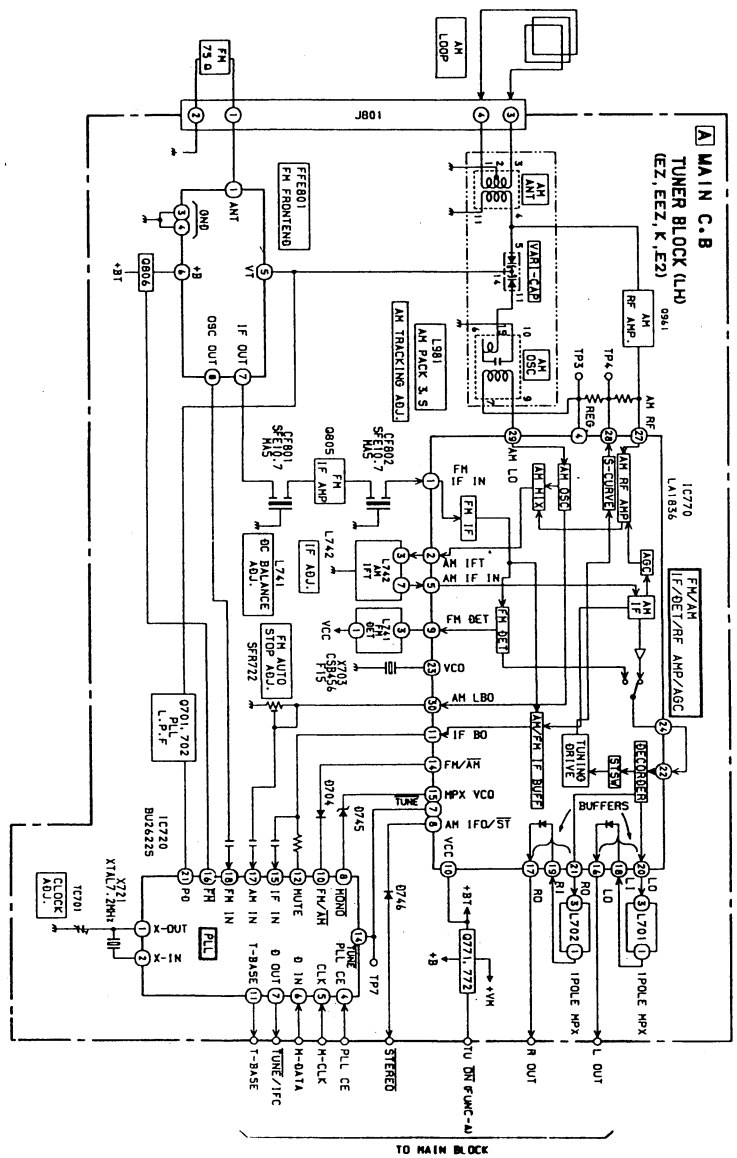
aiwa

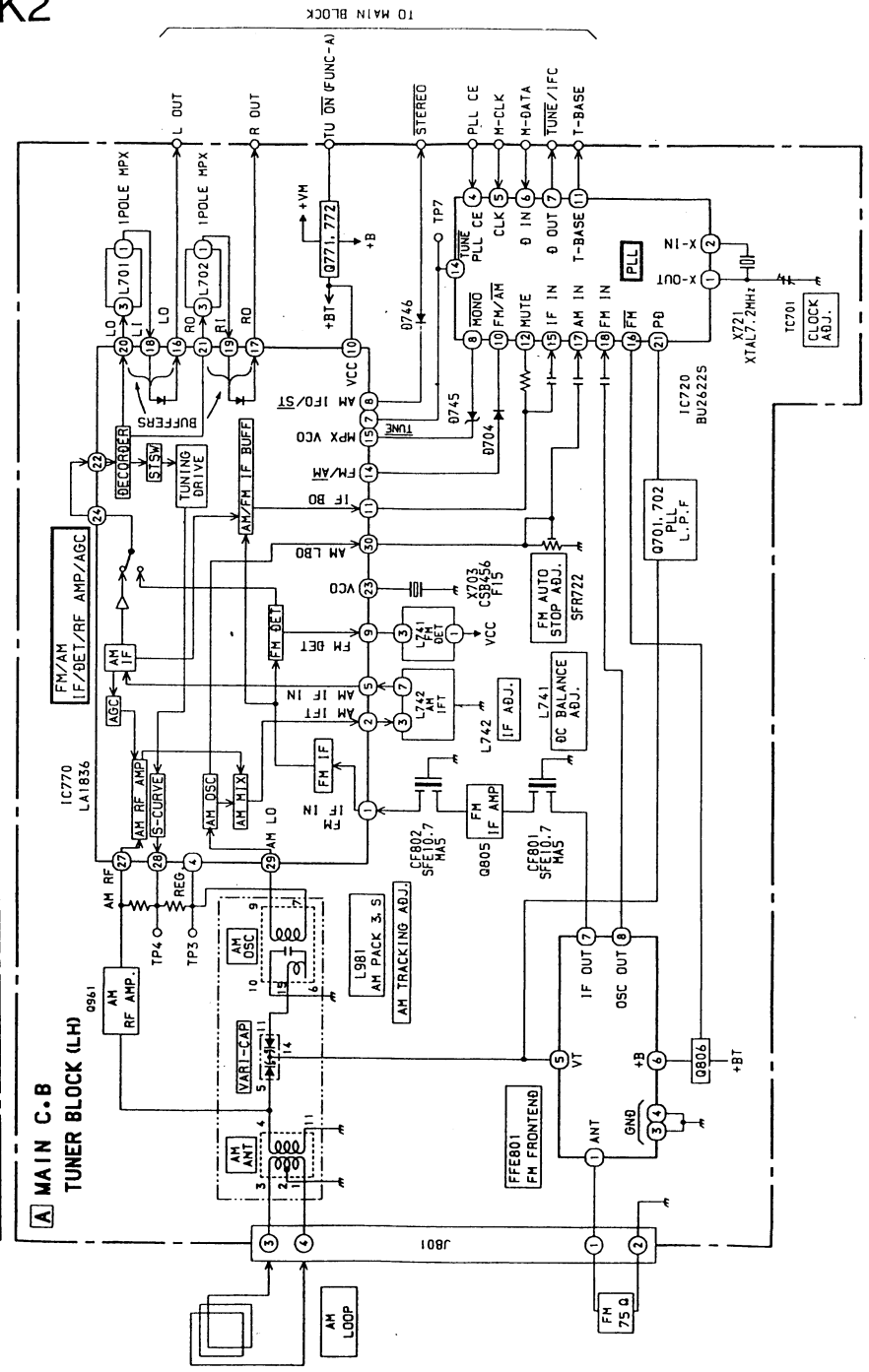


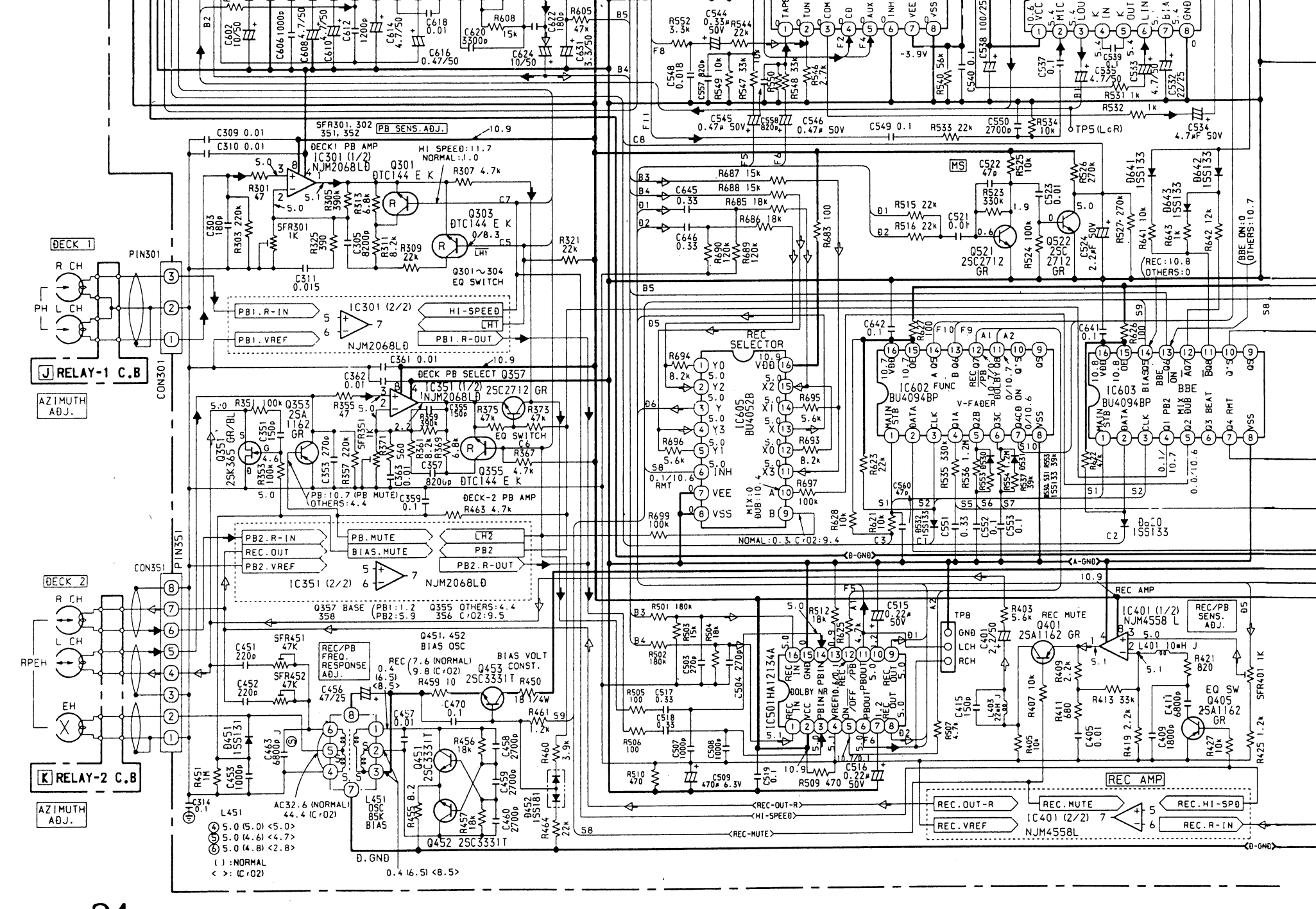
COMPACT DISC STEREO
CASSETTE RECEIVER

CX-N999MK2
SX-N999MK2
CX-N2200
SX-N2200

- BASIC TAPE MECHANISM: 2ZM-3PR1N
- BASIC CD MECHANISM: 4ZG-1SDFR
- TYPE. HR.E2.EEZ.EZ.K(999MK2) LH(2200)






DECK 1
DECK 2
J RELAY-1 C.B
K RELAY-2 C.B
AZIMUTH ADJ.
AZIMUTH ADJ.
PIN301
CON301
PIN351
CON351
R CH
L CH
PH
RPEH
EH
SFR301, 302 351, 352
PB SENS. ADJ.
DECK1 PB AMP
IC301 (1/2) NJM2068LD
Q301 DTC144 E K
Q303 DTC144 E K
HI SPEED: 11.7
NORMAL: 1.0
Q301~304 EQ SWITCH
IC301 (2/2)
NJM2068LD
PB1.R-IN
PB1.VREF
HI-SPEED
PB1.R-OUT
DECK PB SELECT Q357
IC351 (1/2) 2SC2712 GR
INJM2068LD
Q353 2SA 1162 GR
Q351 2SK365 GR/BL
PB: 10.7 (PB MUTE) OTHERS: 4.4
DECK-2 PB AMP
PB2.R-IN
REC.OUT
PB2.VREF
PB.MUTE
BIAS.MUTE
PB2
PB2.R-OUT
IC351 (2/2)
NJM2068LD
Q357 BASE (PB1: 1.2 (PB2: 5.9
358
Q355 OTHERS: 4.4
356 (Cr02: 9.5
REC SELECTOR
IC605 BU4052B
M1X: 0 8UB: 10.4
NOMAL: 0.3 (Cr02: 9.4
IC602 FUNC BU4094BP
IC603 BU4094BP
V-FADE
BBE
REC/PB FREQ. RESPONSE ADJ.
Q451, 452 BIAS OSC
BIAS VOLT CONST.
Q453 2SC3331T
REC (7.6 (NORMAL) 9.8 (Cr02)
IC501 HA12134A
DOLBY NR
Q401 2SA1162 GR
IC401 (1/2) NJM4558 L
REC/PB SENS. ADJ.
EQ SW Q405 2SA1162 GR
REC AMP
REC.OUT-R
REC.VREF
REC.MUTE
REC.HI-SPD
REC.R-IN
IC401 (2/2) NJM4558L
TP8
GND
LCH
RCH
TP5 (LcR)
MS
Q521 2SC2712 GR
Q522 2SC2712 GR
AC32.6 (NORMAL) 44.4 (Cr02)
L451 OSC 85K BIAS
Q451 2SC3331T
Q452 2SC3331T
D.GND
A-GND
D-GND
<REC-OUT-R>
<HI-SPEED>
<REC-MUTE>
( ) :NORMAL
< > : (Cr02)

SCHEMATIC DIAGRAM-1 (MAIN: HR)

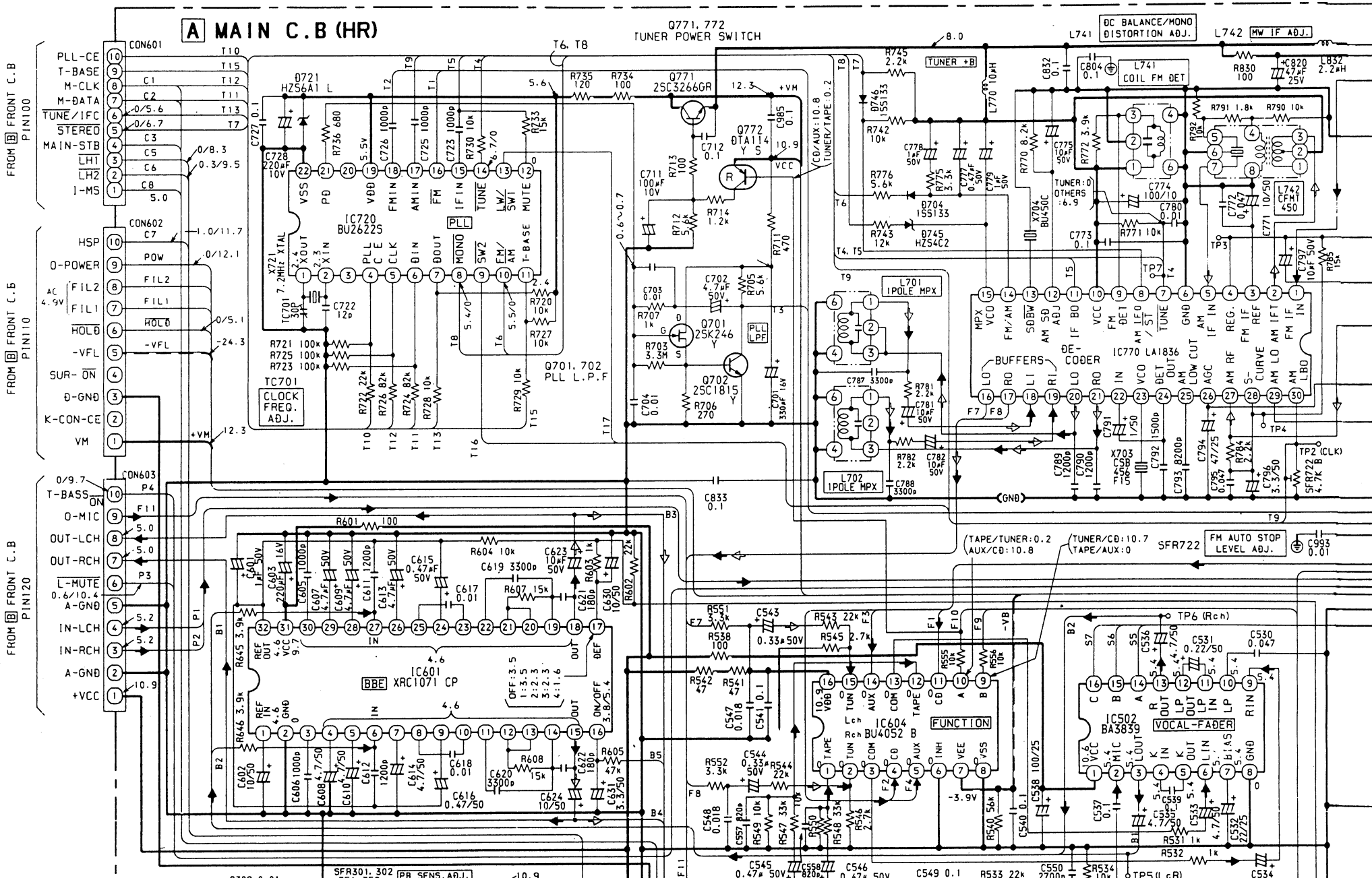
VOLTAGE VALUE

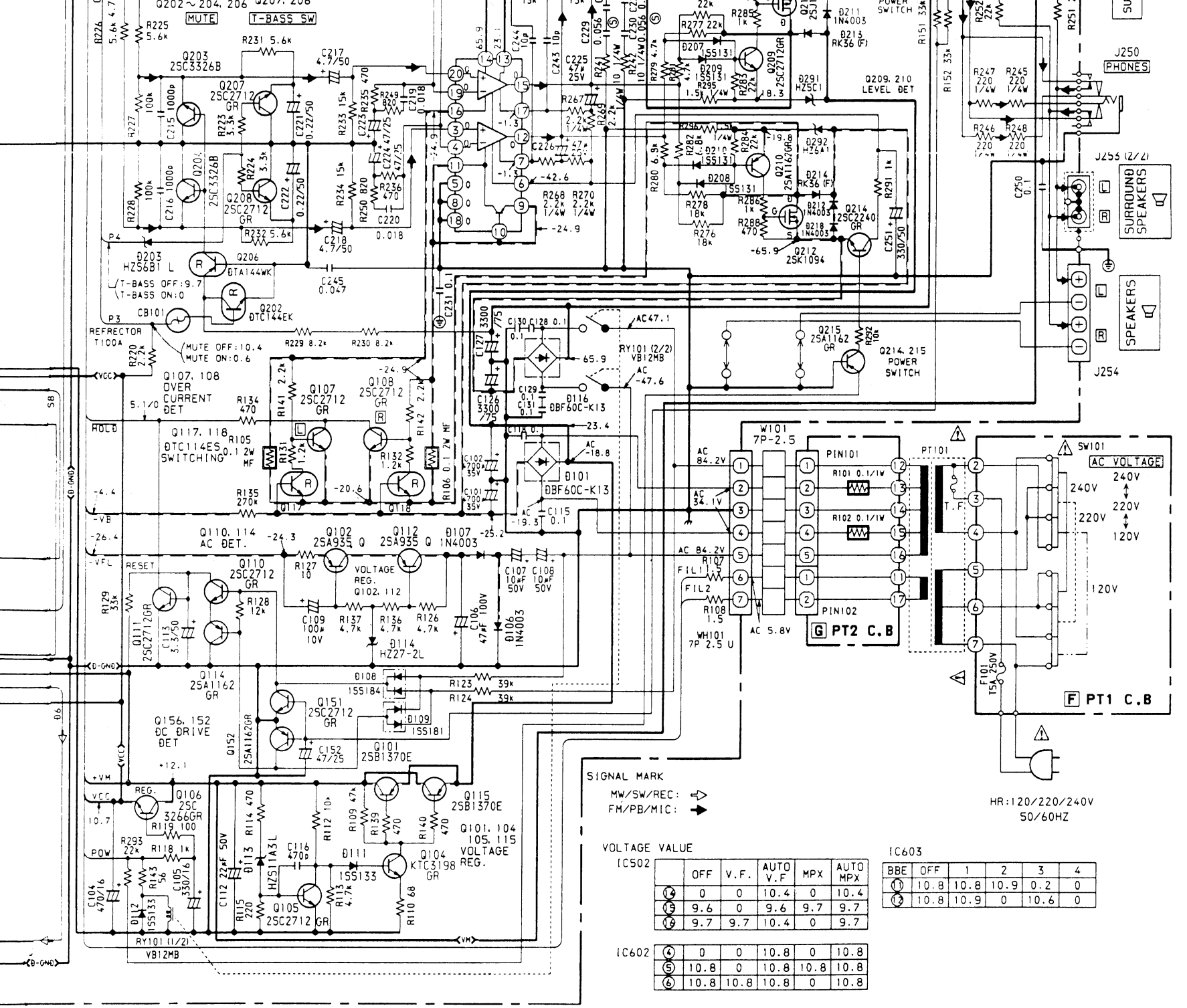
IC720

	⑨	⑩	⑬	⑯
FM	8.0	6.4	8.0	0.1
MW	8.1	0.1	8.1	8.1
SW1	8.1	0.1	0.1	8.1
SW2	0.1	0.1	8.0	8.0

IC770

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬
FM	3.7	8.0	3.7	3.8	3.7	0	7.4/0	8.0/0	8.0	8.0	0	1.3	1.7
MW	3.7	8.1	3.7	3.7	3.7	0	7.4/0	8.0/0	8.1	8.0	0	0	1.7
SW1	3.8	8.1	3.8	3.8	3.8	0	7.4/0	8.0/0	8.1	8.0	0	0	1.7
SW2	4.2	8.0	4.2	4.2	4.2	0	7.4/0	8.0/0	8.0	8.0	0	0	1.7



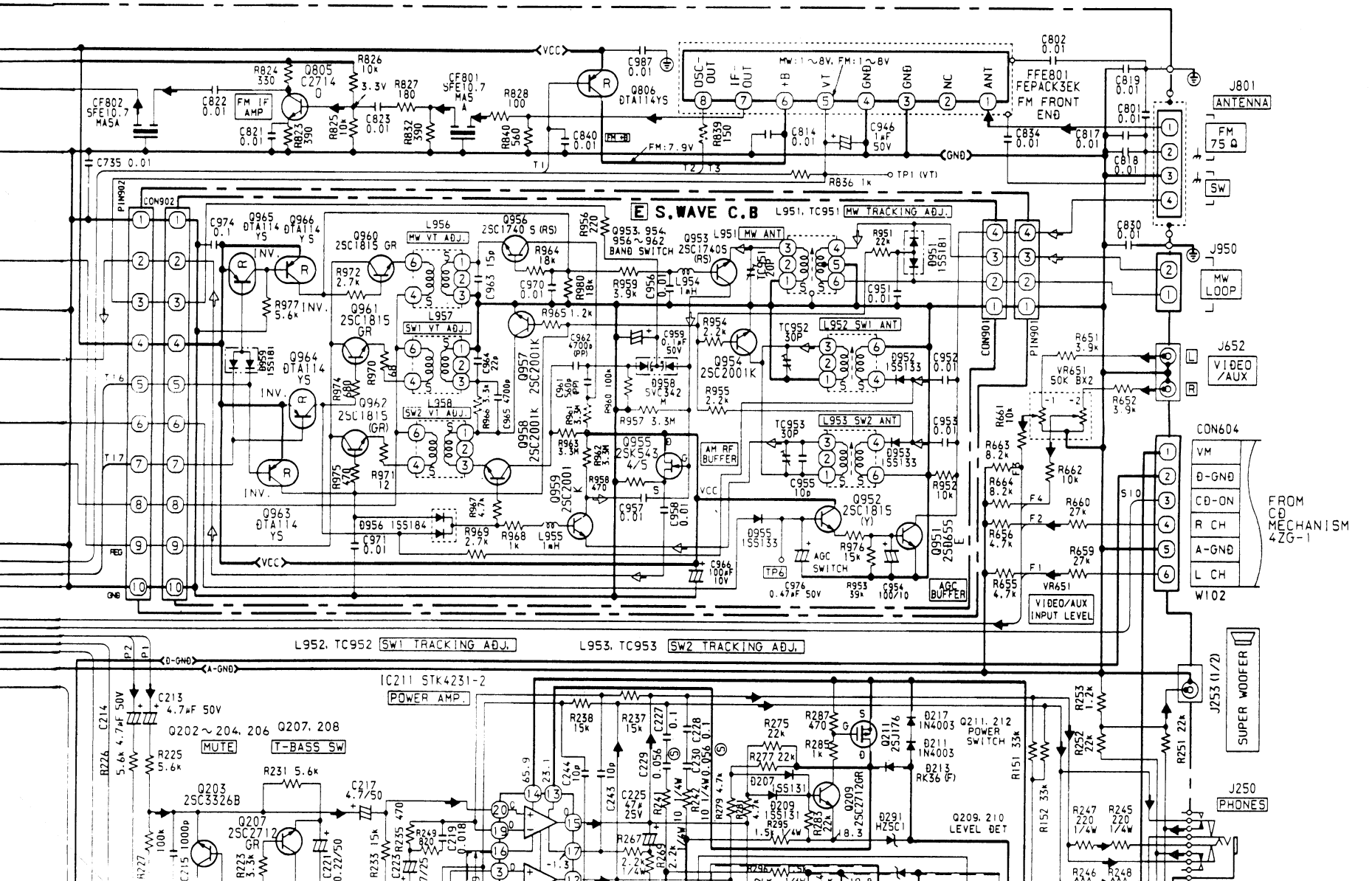


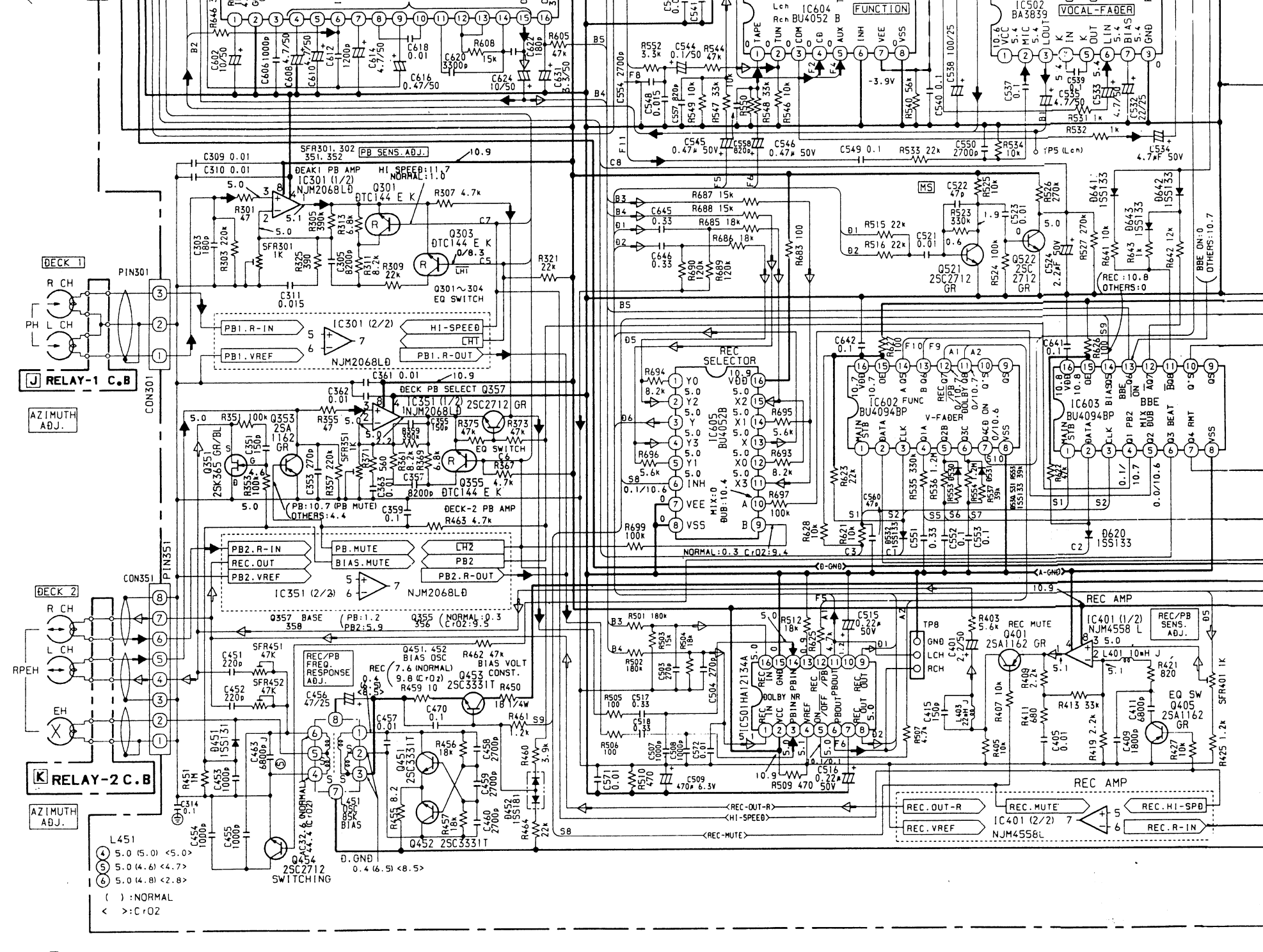
IC502	OFF	V.F.	AUTO V.F	MPX	AUTO MPX
14	0	0	10.4	0	10.4
15	9.6	0	9.6	9.7	9.7
16	9.7	9.7	10.4	0	9.7

IC602					
4	0	0	10.8	0	10.8
5	10.8	0	10.8	10.8	10.8
6	10.8	10.8	10.8	0	10.8

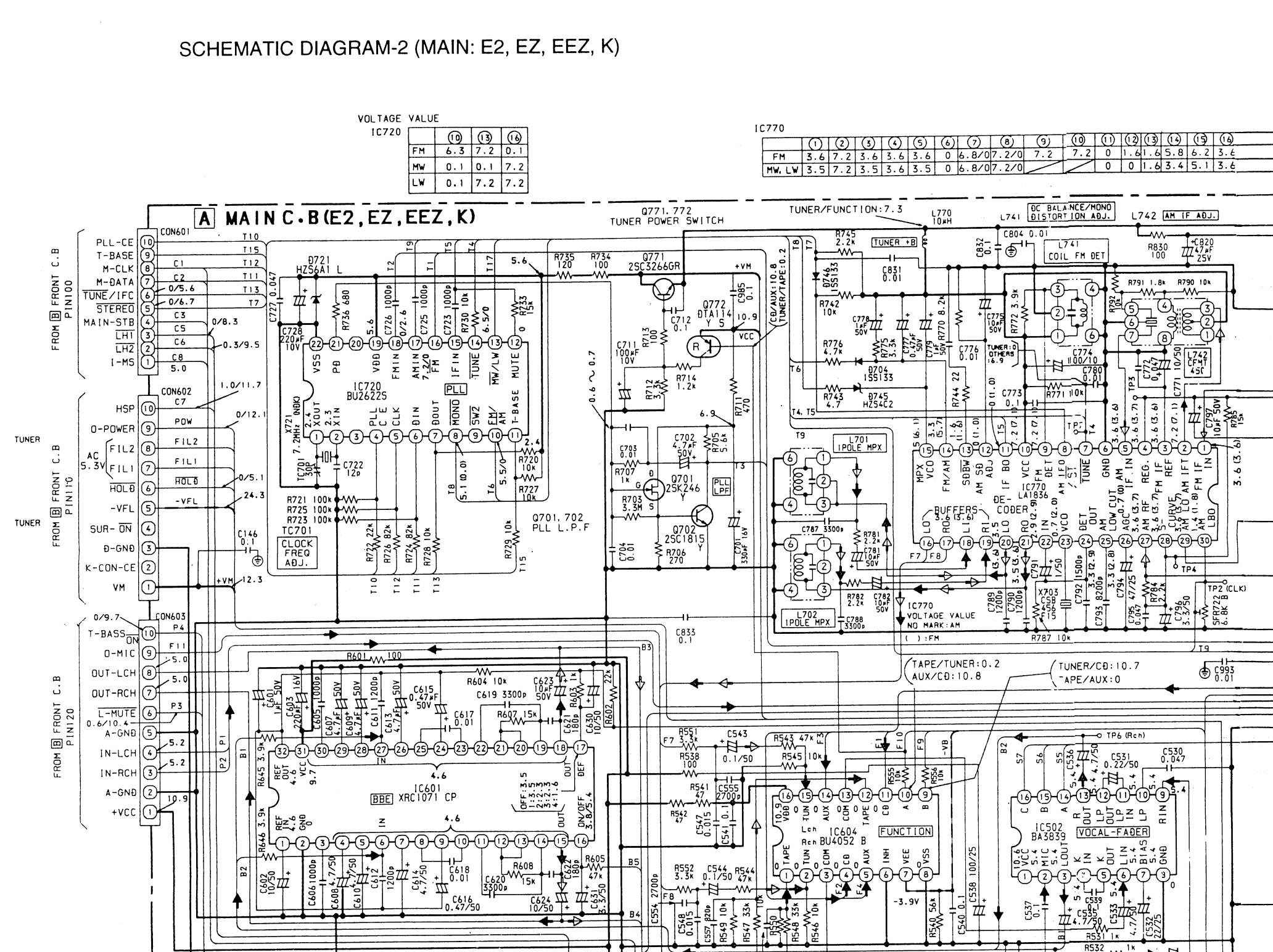
IC603 BBE	OFF	1	2	3	4
11	10.8	10.8	10.9	0.2	0
12	10.8	10.9	0	10.6	0

14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
6.6	7.2	3.8	3.8	3.8	3.8	3.9	3.9	3.0	2.3	3.2	2.9	0	3.7	3.7	3.8	1.9
4.2	6.0	3.7	3.7	3.7	3.7	3.8	3.8	3.0	1.4	3.3	3.3	0.5	3.7	3.7	3.7	1.5
4.2	6.0	3.8	3.8	3.8	3.8	3.9	3.9	3.0	1.4	3.3	3.3	0.5	3.7	3.7	3.8	1.5
4.2	6.0	4.2	4.2	4.2	4.2	4.6	4.6	3.5	1.3	3.5	3.5	0.5	4.2	4.2	4.3	2.0



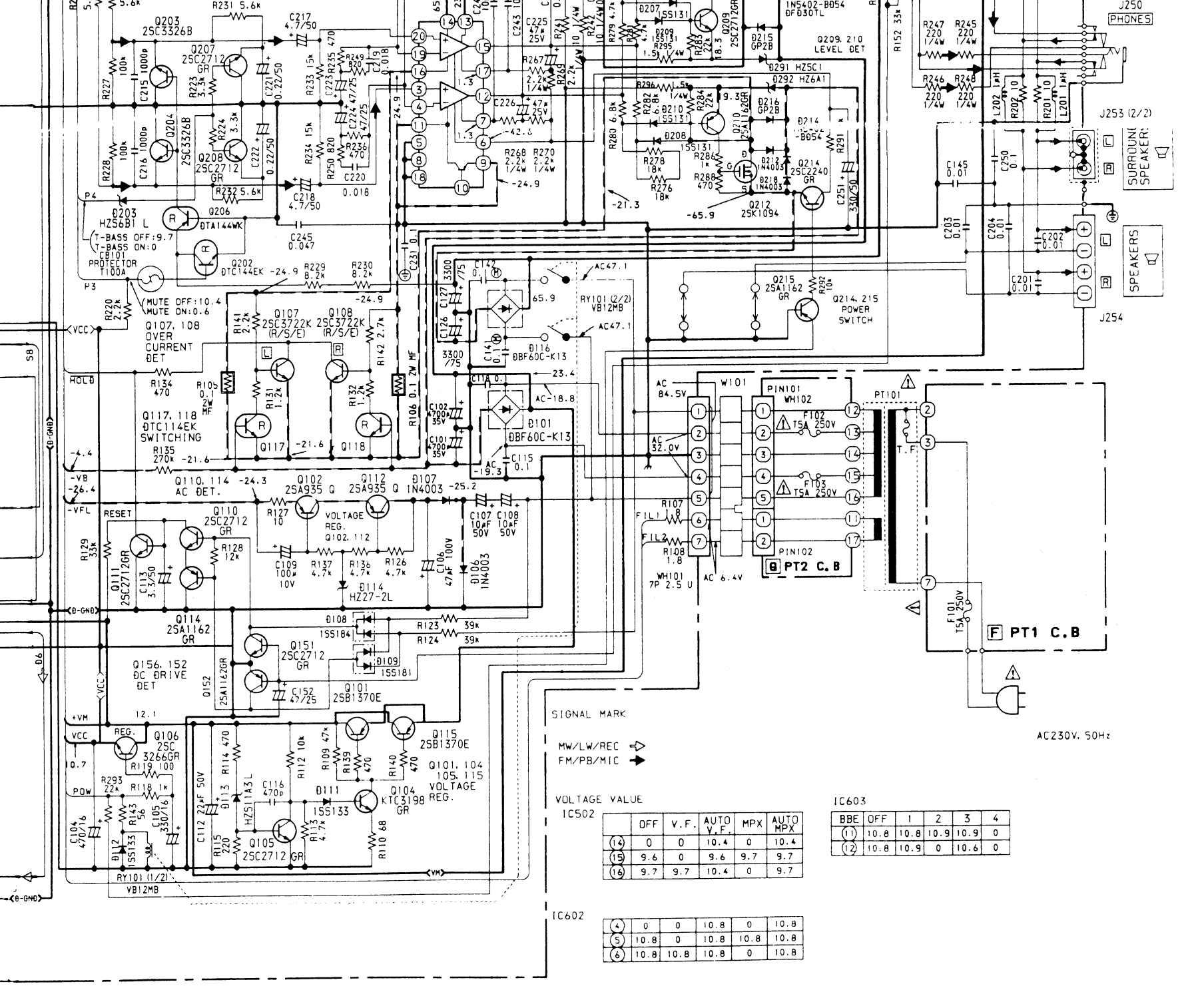

DECK 1
PIN301
CON301
J RELAY-1 C.B
AZIMUTH ADJ.
DECK 2
PIN351
CON351
K RELAY-2 C.B
AZIMUTH ADJ.
PB SENS. ADJ.
SFR301, 302
351, 352
IC301 (1/2)
NJM2068LD
IC301 (2/2)
NJM2068LD
PB1.R-IN
PB1.VREF
HI-SPEED
PB1.R-OUT
DECK PB SELECT Q357
IC351 (1/2)
INJM2068LD
2SC2712 GR
IC351 (2/2)
NJM2068LD
PB2.R-IN
REC.OUT
PB2.VREF
PB.MUTE
BIAS.MUTE
PB2
PB2.R-OUT
DECK-2 PB AMP
EQ SWITCH
Q301~304
EQ SWITCH
REC SELECTOR
IC605
BU4052B
IC604
BU4052 B
FUNCTION
IC502
BA3839
VOCAL-FADER
IC602 FUNC
BU4094BP
V-FADER
IC603
BU4094BP
BBE
REC AMP
IC401 (1/2)
NJM4558 L
REC/PB SENS. ADJ.
REC/PB FREQ. RESPONSE ADJ.
BIAS VOLT CONST.
Q453
2SC3331T
Q451, 452
BIAS OSC
Q451
2SC3331T
Q452 2SC3331T
Q454
2SC2712
SWITCHING
IC501 HA12134A
DOLBY NR
REC AMP
IC401 (1/2)
NJM4558L
REC.OUT-R
REC.VREF
REC.MUTE
REC.HI-SPD
REC.R-IN
<REC-OUT-R>
<HI-SPEED>
<REC-MUTE>
L451
4 5.0 (5.0) <5.0>
5 5.0 (4.6) <4.7>
6 5.0 (4.8) <2.8>
( ) :NORMAL
< >:CrO2

SCHEMATIC DIAGRAM-2 (MAIN: E2, EZ, EEZ, K)



VOLTAGE VALUE IC720	⑩	⑬	⑯
FM	6.3	7.2	0.1
MW	0.1	0.1	7.2
LW	0.1	7.2	7.2

IC770	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯
FM	3.6	7.2	3.6	3.6	3.6	0	6.8/0	7.2/0	7.2	7.2	0	1.6	1.6	5.8	6.2	3.6
MW, LW	3.5	7.2	3.5	3.6	3.5	0	6.8/0	7.2/0			0	0	1.6	3.4	5.1	3.6



VOLTAGE VALUE

IC502

	OFF	V.F.	AUTO V.F.	MPX	AUTO MPX
(14)	0	0	10.4	0	10.4
(15)	9.6	0	9.6	9.7	9.7
(16)	9.7	9.7	10.4	0	9.7

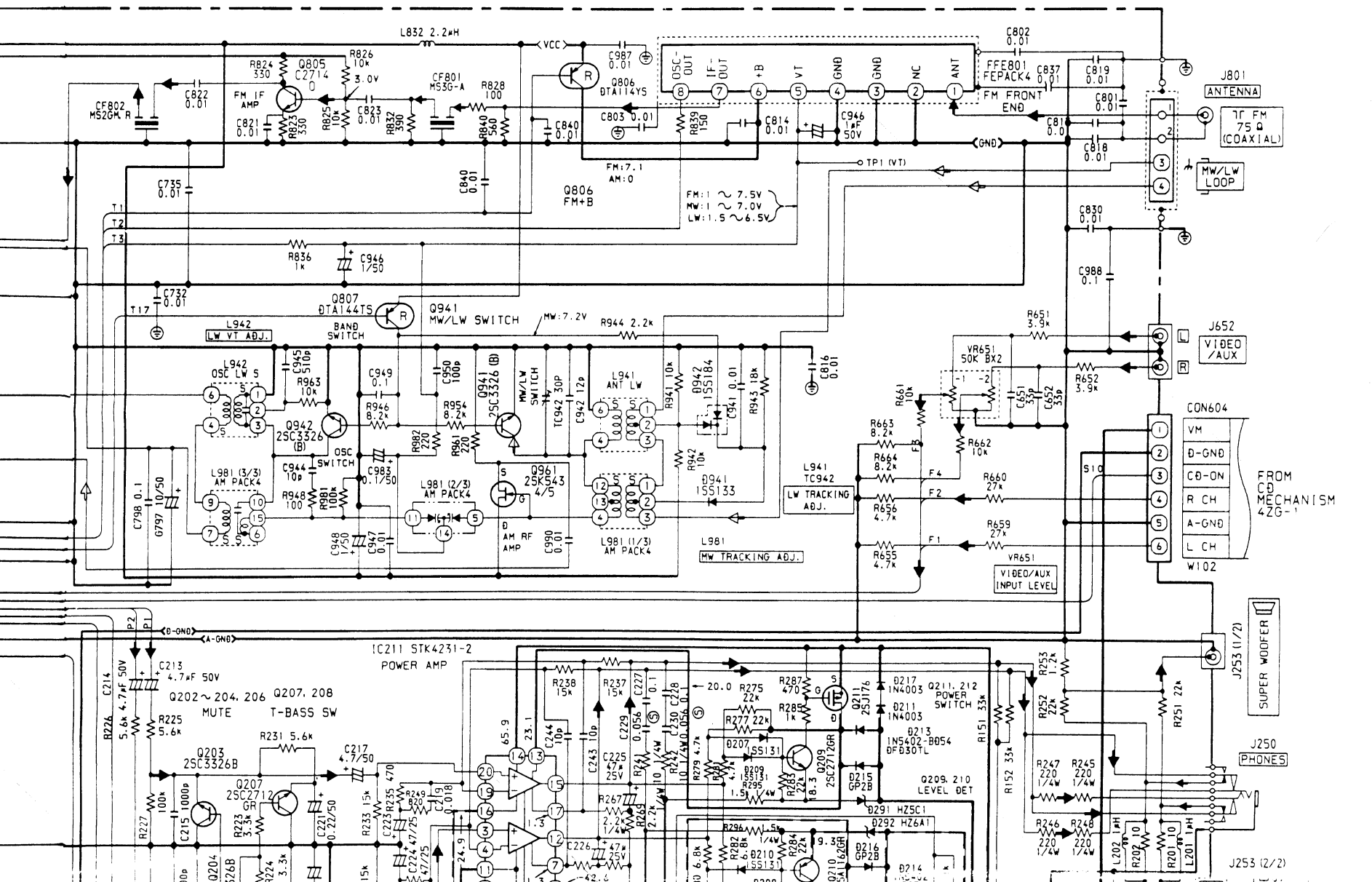
IC603

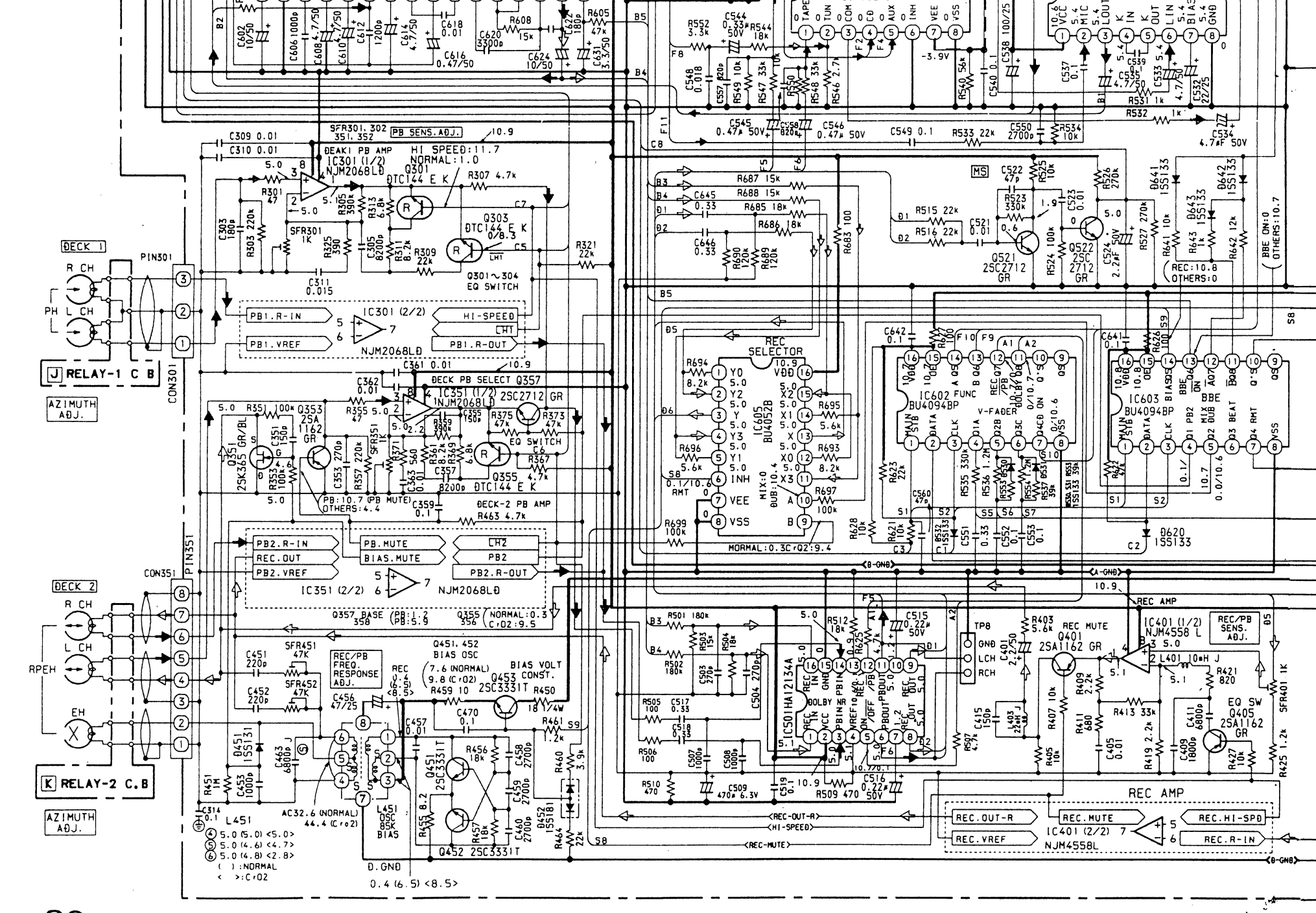
BBE	OFF	1	2	3	4
(11)	10.8	10.8	10.9	10.9	0
(12)	10.8	10.9	0	10.6	0

IC602

(4)	0	0	10.8	0	10.8
(5)	10.8	0	10.8	10.8	10.8
(6)	10.8	10.8	10.8	0	10.8

	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	3.6	3.6	3.6	3.5	3.5	2.8	2.1	2.5	2.7	0	3.6	3.6	3.6	1.6
2	3.6	3.6	3.6	3.4	3.4	2.8	0.6	1.0	3.1	0.5	3.5	3.5	3.6	1.3




DECK 1
R CH
L CH
PH
PIN301
CON301
J RELAY-1 C B
AZIMUTH ADJ.
DECK 2
R CH
L CH
RPEH
EH
CON351
PIN351
K RELAY-2 C.B
AZIMUTH ADJ.
IC301 (1/2) NJM2068LD
IC301 (2/2) NJM2068LD
IC351 (1/2) 2SC2712 GR
IC351 (2/2) NJM2068LD
IC605 BU4052B
IC602 FUNC BU4094BP
IC603 BU4094BP
IC501 HA12134A
IC401 (1/2) NJM4558 L
IC401 (2/2) NJM4558L
REC SELECTOR
V-FADER
BBE
REC AMP
REC MUTE
EQ SWITCH
DECK PB SELECT Q357
DECK-2 PB AMP
BIAS VOLT CONST.
BIAS OSC
REC/PB FREQ. RESPONSE ADJ.
REC/PB SENS. ADJ.
SFR301, 302 351, 352 PB SENS. ADJ.
Q301~304 EQ SWITCH
Q521 2SC2712 GR
Q522 2SC 2712 GR
Q401 2SA1162 GR
Q405 2SA1162 GR
Q451, 452 2SC3331T
Q353 2SA 1162 GR
Q355 DTC144 E K
Q357 BASE (PB:1.2 PB:5.9) Q355 (NORMAL:0.3 CrO2:9.5)
Q451, 452 BIAS OSC (7.6 (NORMAL) 9.8 (CrO2))
REC SELECTOR
MIX:0 BUB:10.4
NORMAL:0.3CrO2:9.4
PB:10.7 (PB MUTE) OTHERS:4.4
REC:10.8 OTHERS:0
BBE ON:0 OTHERS:10.7
AC32.6 (NORMAL) 44.4 (CrO2)
5.0 (5.0) <5.0>
5.0 (4.6) <4.7>
5.0 (4.8) <2.8>
( ):NORMAL
< >:CrO2
0.4 (6.5) <8.5>
D.GND
A-GND
B-GND
REC-OUT-R
HI-SPEED
REC-MUTE
REC.OUT-R
REC.VREF
REC.MUTE
REC.HI-SPD
REC.R-IN
PB1.R-IN
PB1.VREF
PB1.R-OUT
HI-SPEED
PB.MUTE
BIAS.MUTE
PB2.R-IN
REC.OUT
PB2.VREF
PB2.R-OUT
TAPE
TUN
CD
AUX
COM
INH
VEE
VSS
MIC
LOUT
LIN
BIAS
GND
VCC
K IN
K OUT
MS

SCHEMATIC DIAGRAM-3 (MAIN: LH)

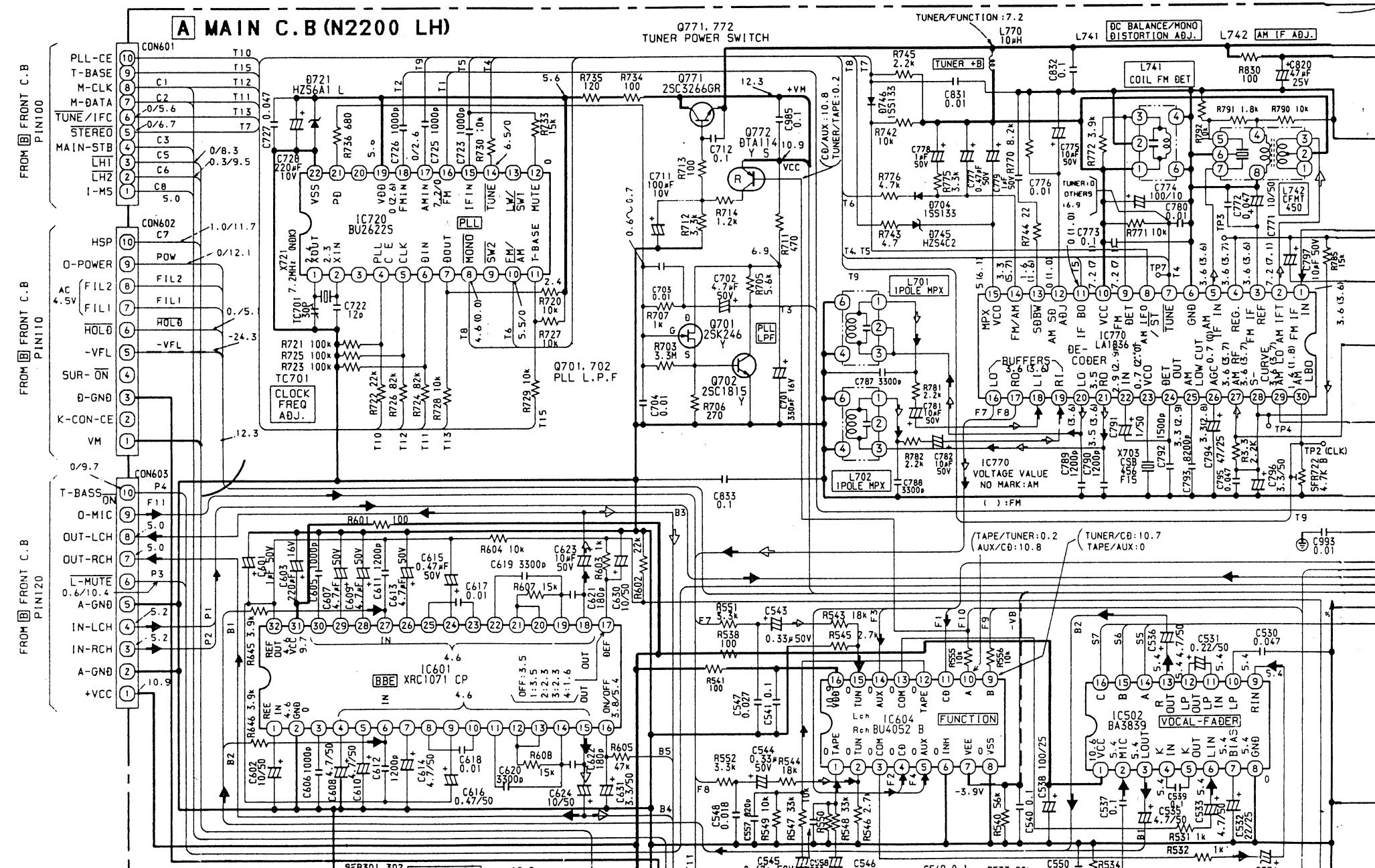
VOLTAGE VALUE

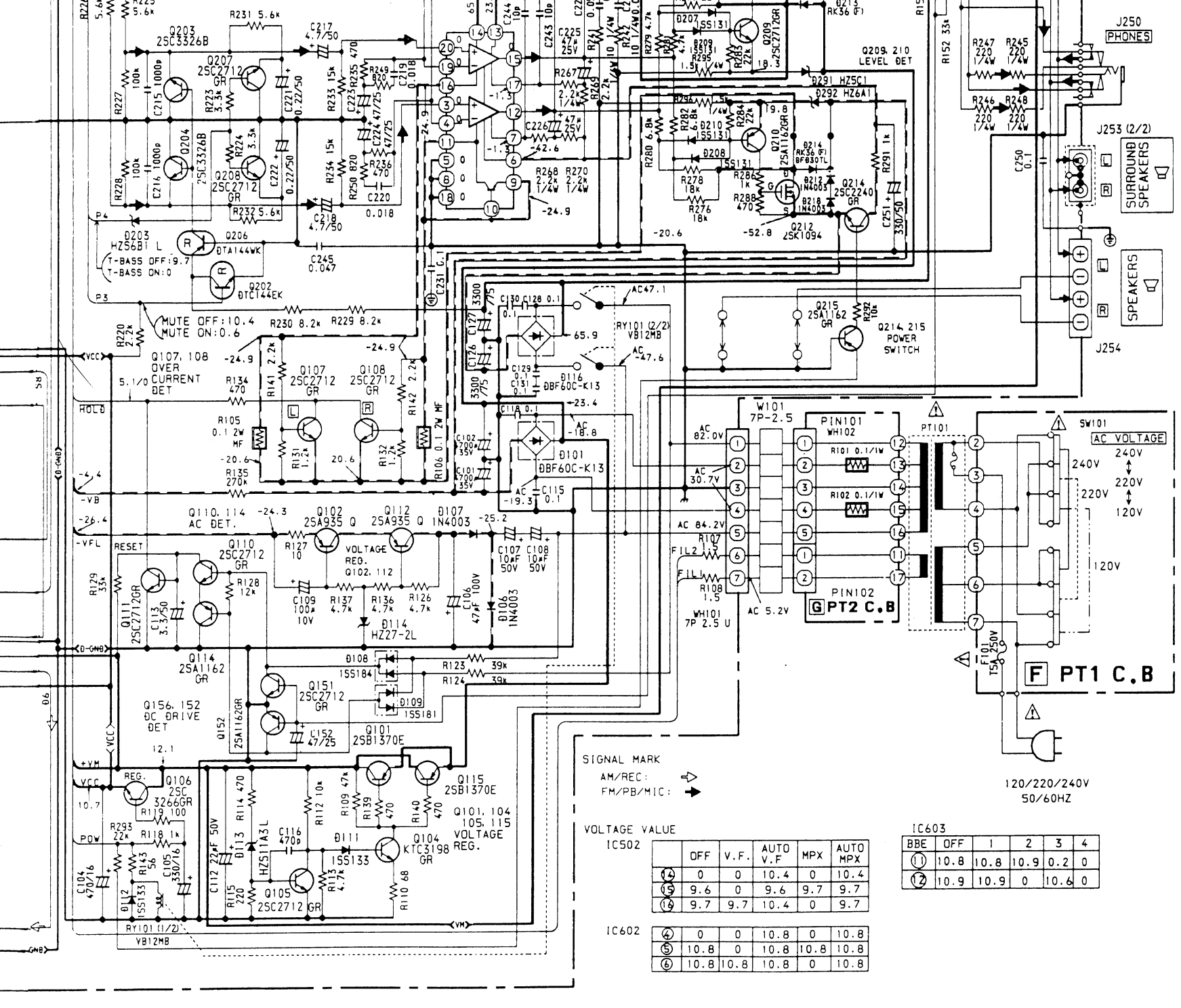
IC720

	(9)	(10)	(13)	(16)
FM	8.0	6.4	8.0	0.1
AM	8.1	0.1	8.1	8.1

IC770

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
FM	3.7	8.0	3.7	3.8	3.7	0	7.4/0	8.0/0	8.0	8.0	0	1.3	1.7
AM	3.7	8.1	3.7	3.7	3.7	0	7.4/0	8.0/0	8.1	8.0	0	0	1.7





VOLTAGE VALUE

IC502

	OFF	V.F.	AUTO V.F	MPX	AUTO MPX
⑭	0	0	10.4	0	10.4
⑮	9.6	0	9.6	9.7	9.7
⑯	9.7	9.7	10.4	0	9.7

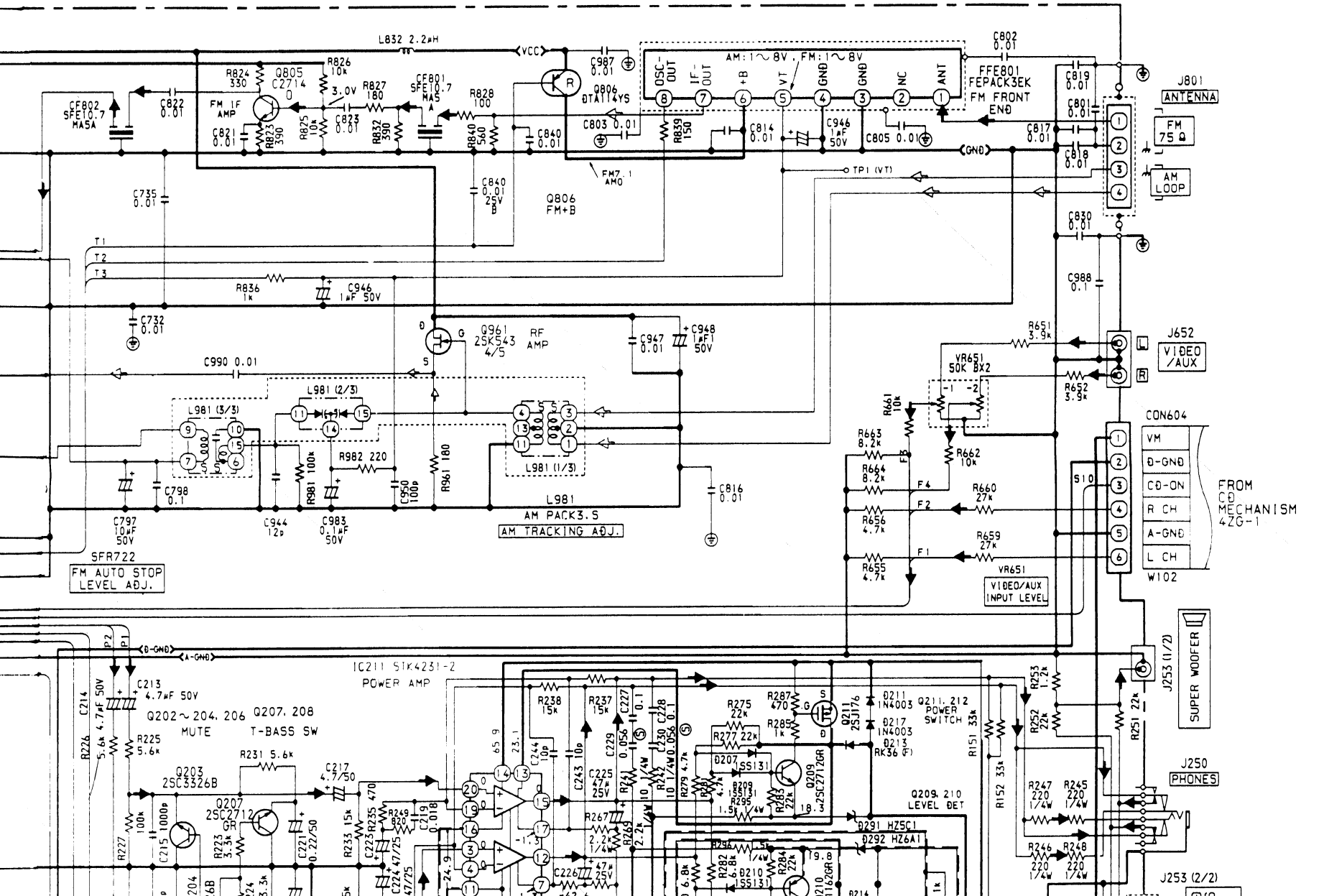
IC602

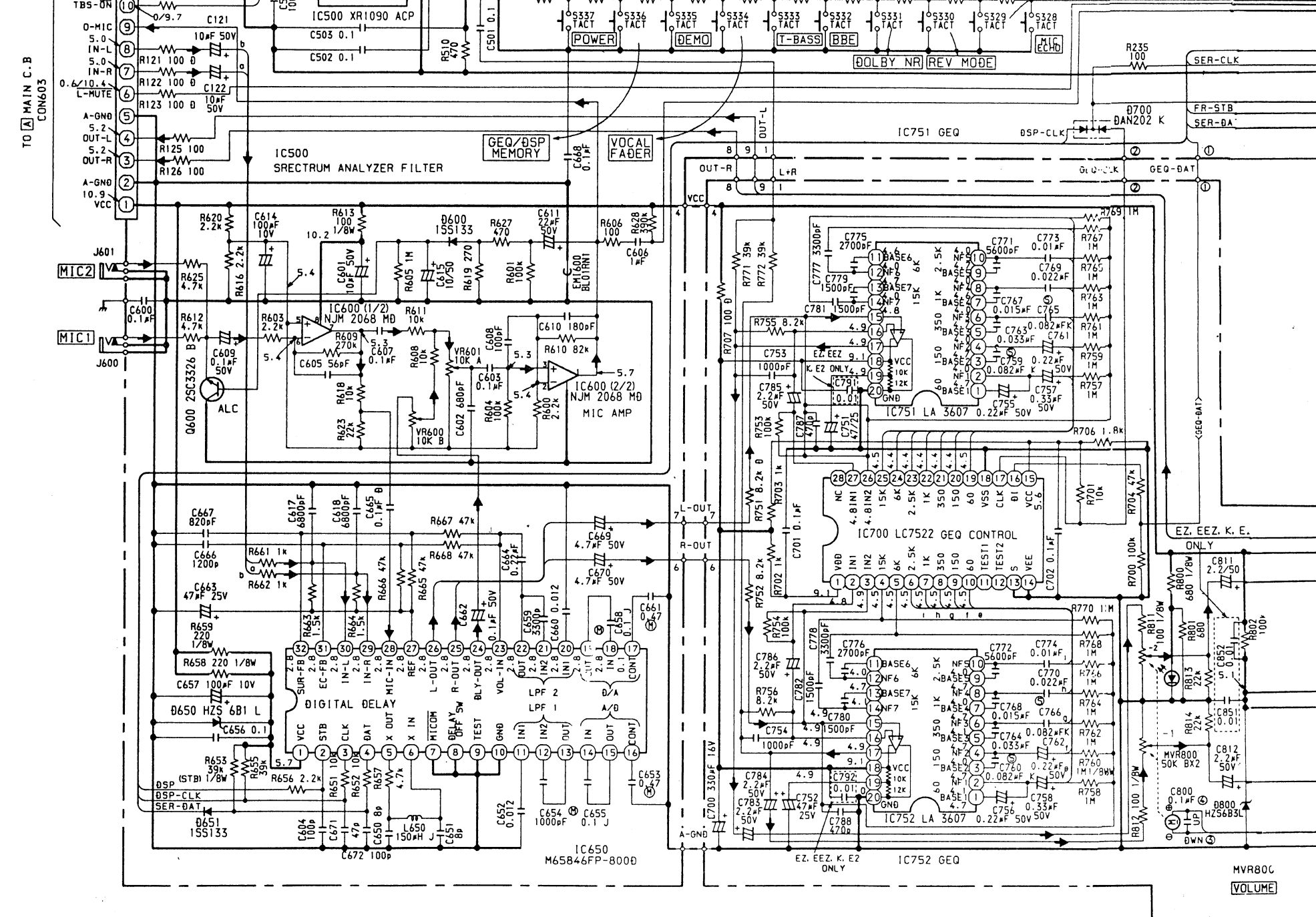
④	0	0	10.8	0	10.8
⑤	10.8	0	10.8	10.8	10.8
⑥	10.8	10.8	10.8	0	10.8

IC603

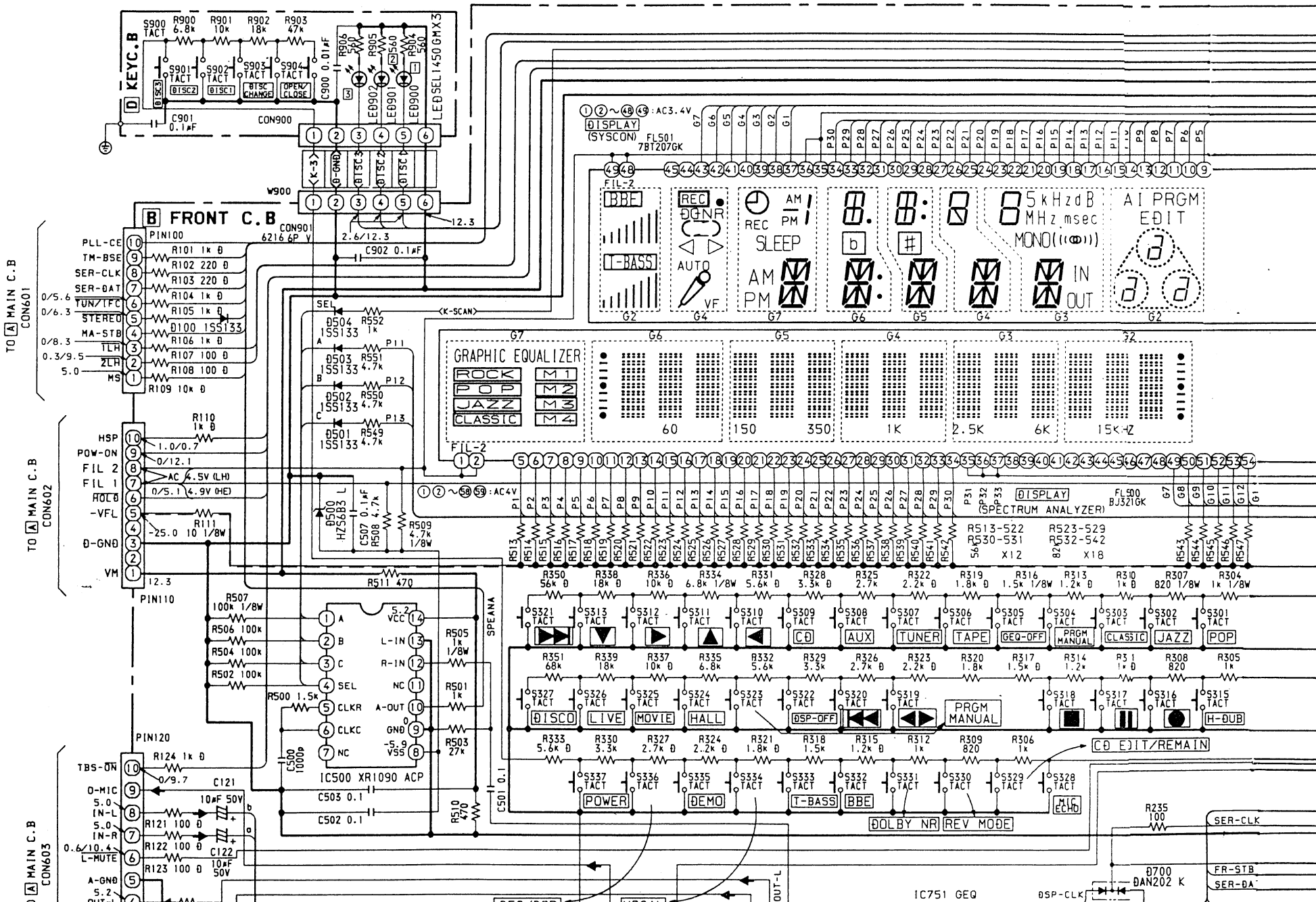
BBE	OFF	1	2	3	4
⑪	10.8	10.8	10.9	0.2	0
⑫	10.9	10.9	0	10.6	0

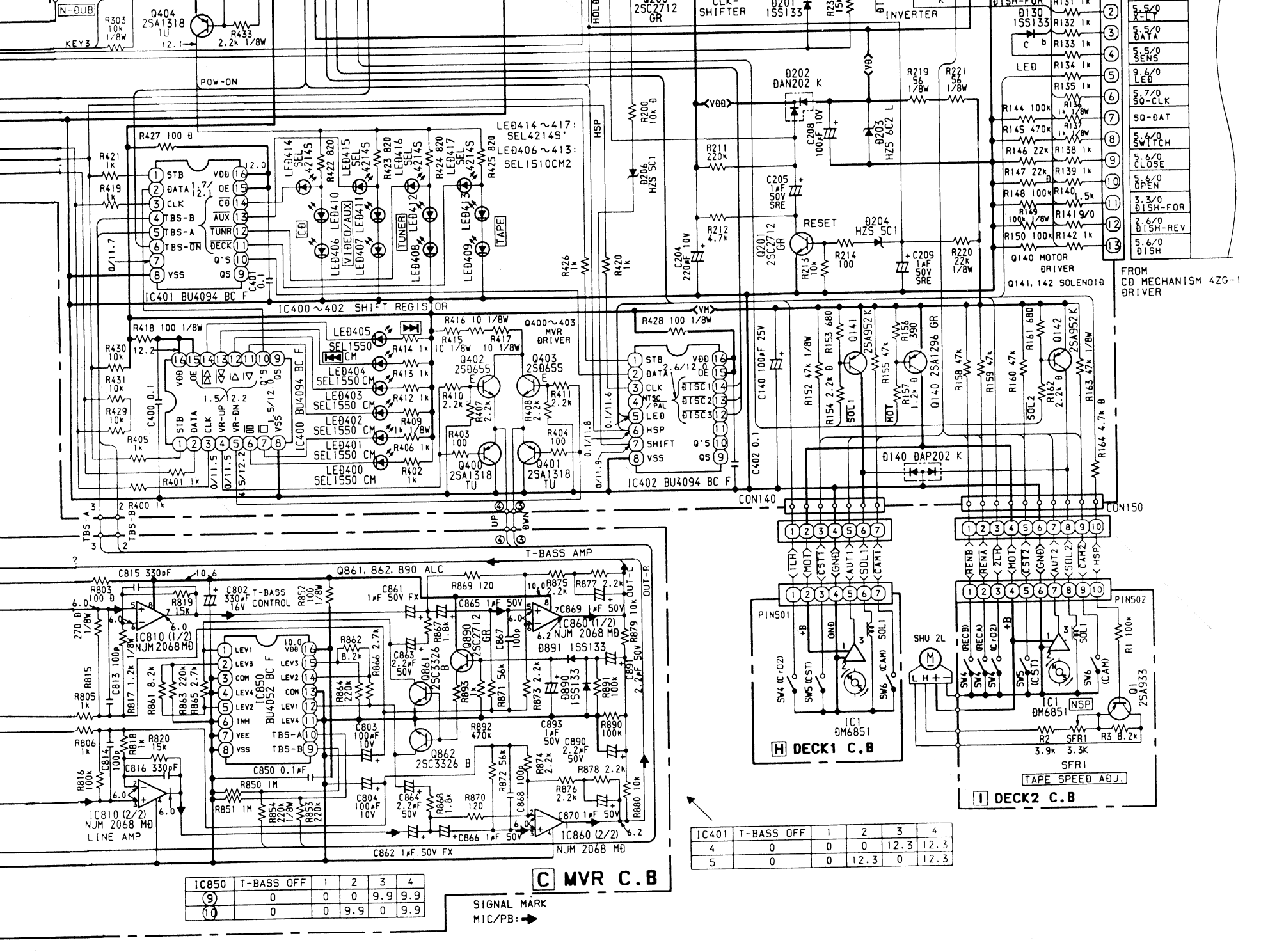
	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	6.5	7.0	3.8	3.8	3.8	3.8	3.9	3.9	3.0	2.3	3.2	4.9	0	3.7	3.7	3.8	1.9
	4.2	6.0	3.7	3.7	3.7	3.7	3.8	3.8	3.0	1.4	3.3	3.3	0.5	3.7	3.7	3.7	1.5

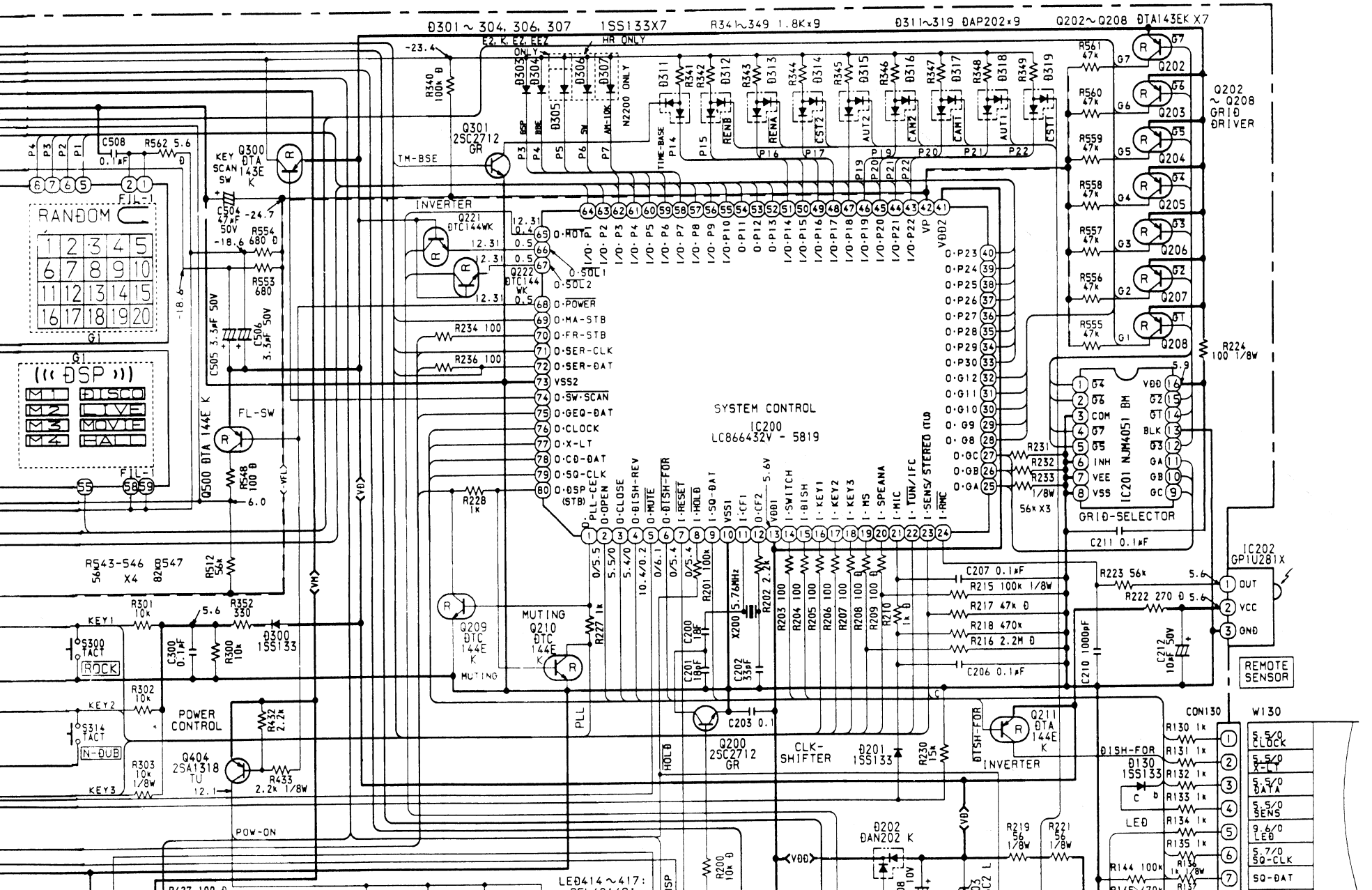


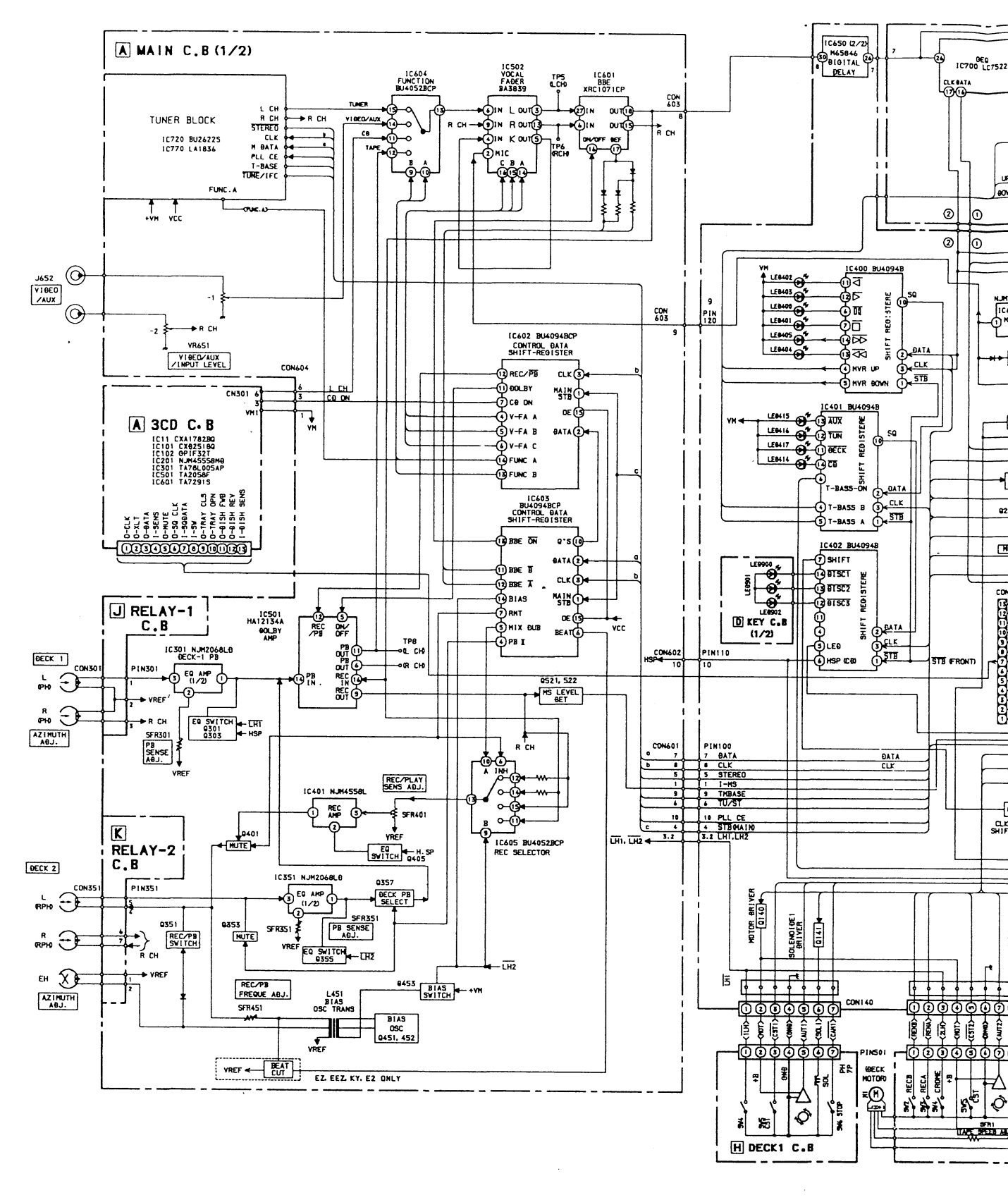

TO A MAIN C.B CON603
IC500 SRECTRUM ANALYZER FILTER
IC500 XR1090 ACP
GEQ/DSP MEMORY
VOCAL FADER
POWER
DEMO
T-BASS
BBE
MIC ECHO
DOLBY NR
REV MODE
IC751 GEQ
IC752 GEQ
IC700 LC7522 GEQ CONTROL
IC751 LA 3607
IC752 LA 3607
IC600 (1/2) NJM 2068 MD
IC600 (2/2) NJM 2068 MD
MIC AMP
ALC
DIGITAL DELAY
IC650 M65846FP-800D
EZ. EEZ. K. E ONLY
MVR800 VOLUME

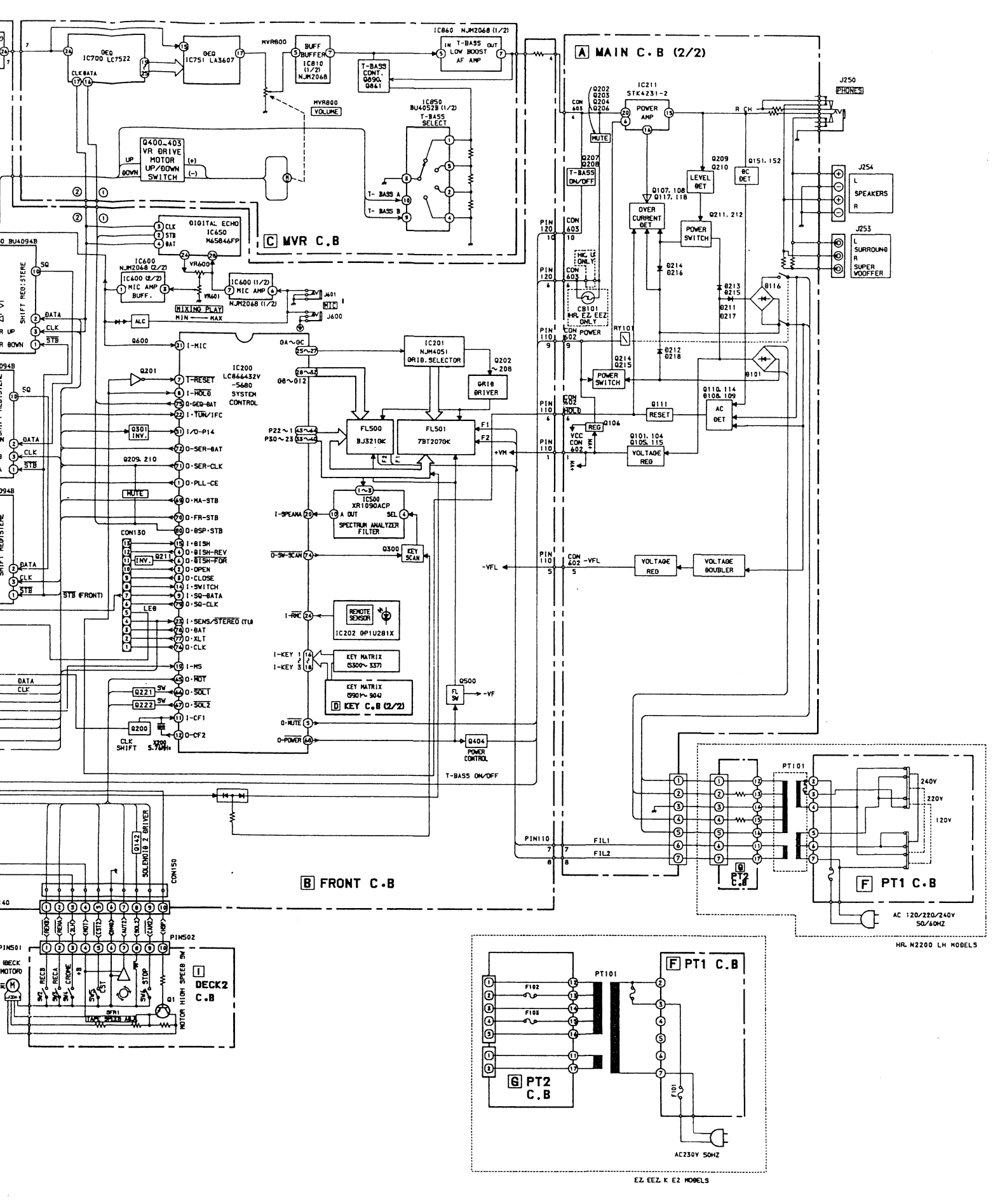
SCHEMATIC DIAGRAM-4 (FRONT)




IC401 BU4094 BC F
IC400~402 SHIFT REGISTOR
IC402 BU4094 BC F
IC400 BU4094 BC F
IC850 BU4052 BC F
IC810 (1/2) NJM 2068 MD
IC810 (2/2) NJM 2068 MD LINE AMP
IC860 (1/2) NJM 2068 MD
IC860 (2/2) NJM 2068 MD
IC1 BM6851
Q140 MOTOR DRIVER
Q141, 142 SOLENOID DRIVER
FROM CD MECHANISM 4ZG-1
T-BASS AMP
Q861, 862, 890 ALC
C DECK MVR C.B
H DECK1 C.B
I DECK2 C.B
TAPE SPEED ADJ.
SIGNAL MARK MIC/PB:
CON140
CON150
PIN501
PIN502
SHU 2L
LED414~417: SEL4214S*
LED406~413: SEL1510CM2
IC401 | T-BASS OFF | 1 | 2 | 3 | 4
4 | 0 | 0 | 0 | 12.3 | 12.3
5 | 0 | 0 | 12.3 | 0 | 12.3
IC850 | T-BASS OFF | 1 | 2 | 3 | 4
9 | 0 | 0 | 0 | 9.9 | 9.9
10 | 0 | 0 | 9.9 | 0 | 9.9


D301 ~ 304, 306, 307 1SS133X7
R341~349 1.8K×9
D311~319 DAP202×9
Q202~Q208 DTA143EK X7
E2, K, EZ, EEZ ONLY
HR ONLY
N2200 ONLY
Q301 2SC2712 GR
TM-BSE
INVERTER
Q221 DTC144WK
Q222 DTC144 WK
SYSTEM CONTROL
IC200
LC866432V - 5819
GRID DRIVER
GRID-SELECTOR
IC201 NJM4051 BM
IC202 GP1U281X
REMOTE SENSOR
Q300 DTA 143E K
KEY SCAN SW
FL-SW
RANDOM
DISCO
LIVE
MOVIE
HALL
DSP
ROCK
N-DUB
POWER CONTROL
Q404 2SA1318 TU
MUTING
Q209 DTC 144E K
Q210 DTC 144E K
Q200 2SC2712 GR
CLK-SHIFTER
Q211 DTA 144E K
INVERTER
D202 DAN202 K
POW-ON
PLL
CON130
W130
LED414~417:


A MAIN C.B (1/2)
TUNER BLOCK
IC720 BU2622S
IC770 LA1836
L CH
R CH
STEREO
CLK
M DATA
PLL CE
T-BASE
TUNE/IFC
FUNC.A
+VM
VCC
IC604 FUNCTION BU4052BCP
TUNER
VIDEO/AUX
CD
TAPE
IC502 VOCAL FADER BA3839
MIC
TP5 (L CH)
TP6 (R CH)
IC601 BBE XRC1071CP
ON/OFF
REF
CON 603
J652 VIDEO /AUX
VR651 VIDEO/AUX /INPUT LEVEL
CON604
CN301
CD ON
VM
A 3CD C.B
IC11 CXA1782BQ
IC101 CXD2518Q
IC102 GP1F32T
IC201 NJM4558MB
IC301 TA78L005AP
IC501 TA2058F
IC601 TA7291S
O-CLK
O-XLT
O-DATA
I-SENS
O-MUTE
O-SQ CLK
I-SQ DATA
I-SV
O-TRAY CLS
O-TRAY OPN
O-DISH FWD
O-DISH REV
I-DISH SENS
IC602 BU4094BCP CONTROL DATA SHIFT-REGISTER
REC/PB
DOLBY
CD ON
V-FA A
V-FA B
V-FA C
FUNC A
FUNC B
MAIN STB
OE
DATA
CLK
IC603 BU4094BCP CONTROL DATA SHIFT-REGISTER
BBE ON
BBE B
BBE A
BIAS
RMT
MIX DUB
PB I
Q'S
BEAT
IC400 BU4094B
IC401 BU4094B
IC402 BU4094B
SHIFT REGISTERE
SQ
MVR UP
MVR DOWN
AUX
TUN
DECK
CD
T-BASS-ON
T-BASS B
T-BASS A
SHIFT
BTSC1
BTSC2
BTSC3
LED
HSP (CD)
D KEY C.B (1/2)
CON602
PIN110
STB (FRONT)
J RELAY-1 C.B
IC501 HA12134A DOLBY AMP
REC /PB
ON/ OFF
PB OUT
REC IN
REC OUT
PB IN
TP8 (L CH)
(R CH)
Q521, 522 MS LEVEL SET
DECK 1
CON301
PIN301
L (PB)
R (PB)
AZIMUTH ADJ.
IC301 NJM2068LD DECK-1 PB
EQ AMP (1/2)
VREF
R CH
EQ SWITCH Q301 Q303
LH1
HSP
SFR301 PB SENSE ADJ.
VREF
R CH
IC605 BU4052BCP REC SELECTOR
REC/PLAY SENS ADJ.
IC401 NJM4558L
REC AMP
SFR401
VREF
EQ SWITCH
H.SP Q405
Q401 MUTE
K RELAY-2 C.B
DECK 2
CON351
PIN351
L (PB)
R (PB)
EH
AZIMUTH ADJ.
IC351 NJM2068LD
EQ AMP (1/2)
Q357 DECK PB SELECT
Q351 REC/PB SWITCH
Q353 MUTE
SFR351 PB SENSE ADJ.
EQ SWITCH Q355
LH2
REC/PB FREQUE ADJ.
SFR451
L451 BIAS OSC TRANS
Q453 BIAS SWITCH
+VM
BIAS OSC Q451, 452
VREF
BEAT CUT
EZ, EEZ, KY, E2 ONLY
CON601
PIN100
DATA
CLK
STEREO
M-MS
TMBASE
TU/ST
PLL CE
STB@MAIN
LH1, LH2
MOTOR DRIVER Q140
SOLENOID DRIVER Q141
CON140
PIN501
DECK MOTOR
H DECK1 C.B
IC650 (2/2) M65846 DIGITAL DELAY
IC700 LC7522
CLK DATA
STB
CON
PIN 120


A MAIN C.B (2/2)
B FRONT C.B
C MVR C.B
D KEY C.B (2/2)
F PT1 C.B
G PT2 C.B
I DECK2 C.B
HR. N2200 LH MODELS
EZ, EEZ, K E2 MODELS
IC700 LC7522
IC751 LA3607
IC810 (1/2) NJM2068
IC860 NJM2068 (1/2)
IC850 BU4052B (1/2)
IC211 STK4231-2
IC600 NJM2068 (2/2)
IC600 (1/2) NJM2068 (1/2)
IC650 M65846FP
IC200 LC866432V -5680
IC201 NJM4051
IC500 XR1090ACP
FL500 BJ3210K
FL501 7BT2070K
GR18 DRIVER
POWER AMP
MUTE
T-BASS ON/OFF
LEVEL DET
OC DET
OVER CURRENT DET
POWER SWITCH
AC DET
RESET
VOLTAGE REG
VOLTAGE DOUBLER
REMOTE SENSOR
IC202 0P1U281X
KEY MATRIX
KEY SCAN
SPECTRUM ANALYZER FILTER
MIC AMP
ALC
MIXING PLAY
MIN MAX
VOLUME
T-BASS SELECT
T-BASS CONT.
VR MOTOR UP/DOWN SWITCH
DIGITAL ECHO
J250 PHONES
J254 SPEAKERS
J253 SURROUND SUPER WOOFER
PT101
240V
220V
120V
AC 120/220/240V 50/60HZ
AC230V 50HZ
DECK MOTOR
MOTOR HIGH SPEED SW
CON150
SOLENOID 2 DRIVER