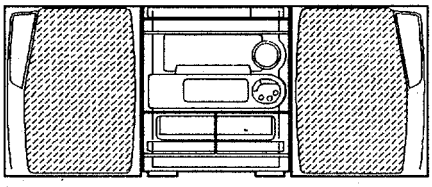
aiwa

aiwa SERVICE

NSX-S30
NSX-S32
NSX-S33
NSX-S35
NSX-S36



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 6ZM-3 PR1NM<30EZ,35EZ,K,V>
  6ZM-3 PR2NM<32HR>, 2ZM-3MK2 PR4NM<33EZ,36HR>
- BASIC CD MECHANISM : 4ZG–1 Z1DNM
- TYPE : HR,EZ,K,V

SYSTEM	SPEAKER	CD – CASSEIVER
NSX–S30 (TYPE : EZ,K,V)	SX – NS30	CX–NS30
NSX–S32 (TYPE : HR)		CX–NS32
NSX–S33 (TYPE : EZ)		CX–NS33
NSX–S35 (TYPE : EZ)	SX – NS30 SX – R270	CX–NS35
NSX–S36 (TYPE : HR)	SX – FNS36	CX–NS36

If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-974-187-50T.

SERVICE MANUAL

S/M Code No. 09–976–181–5FE

TRANSISTOR ILLUSTRATION

E C B

KTA1266GR
KTC3198GR

E C B

CSD1489B
CSB1058B

E C B

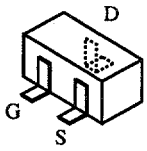
2SA933S

G D S

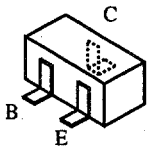
2SK2723

B C E

2SB1370
FN1016
FP1016



2SK2158



2SC2714
RN1410
2SC3052
2SA1235
RT1N141
CSA1362

RT1N144
CSD1306
CMBT5551
RT1P144
RT1P141

E B C

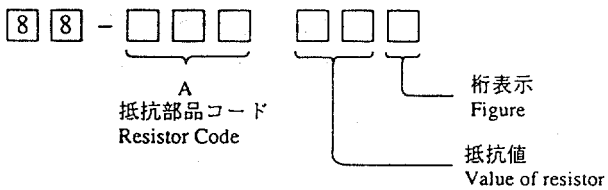
C2N5401

B C E

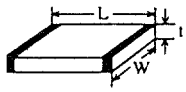
2SB1626
2SD2495

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

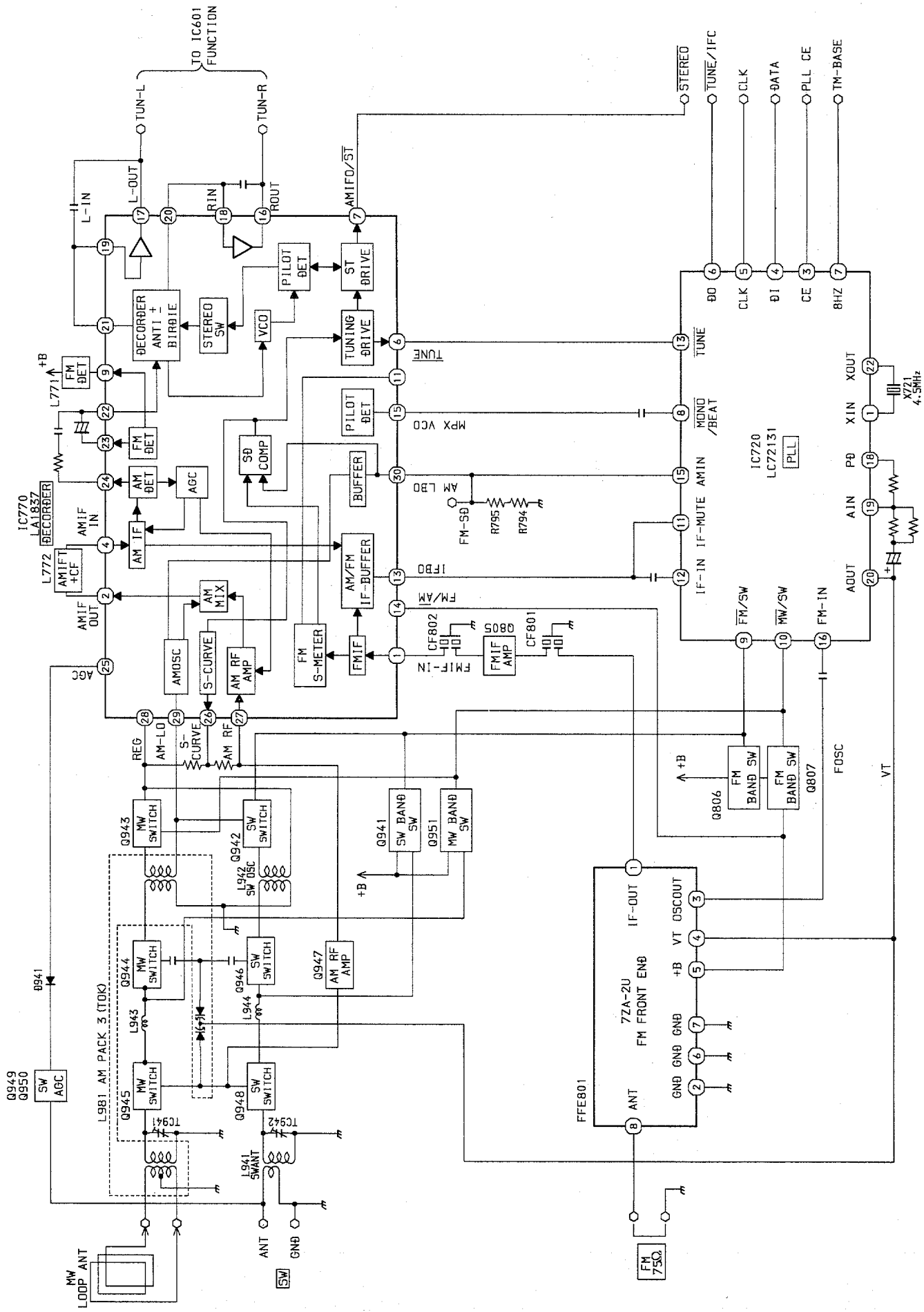
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



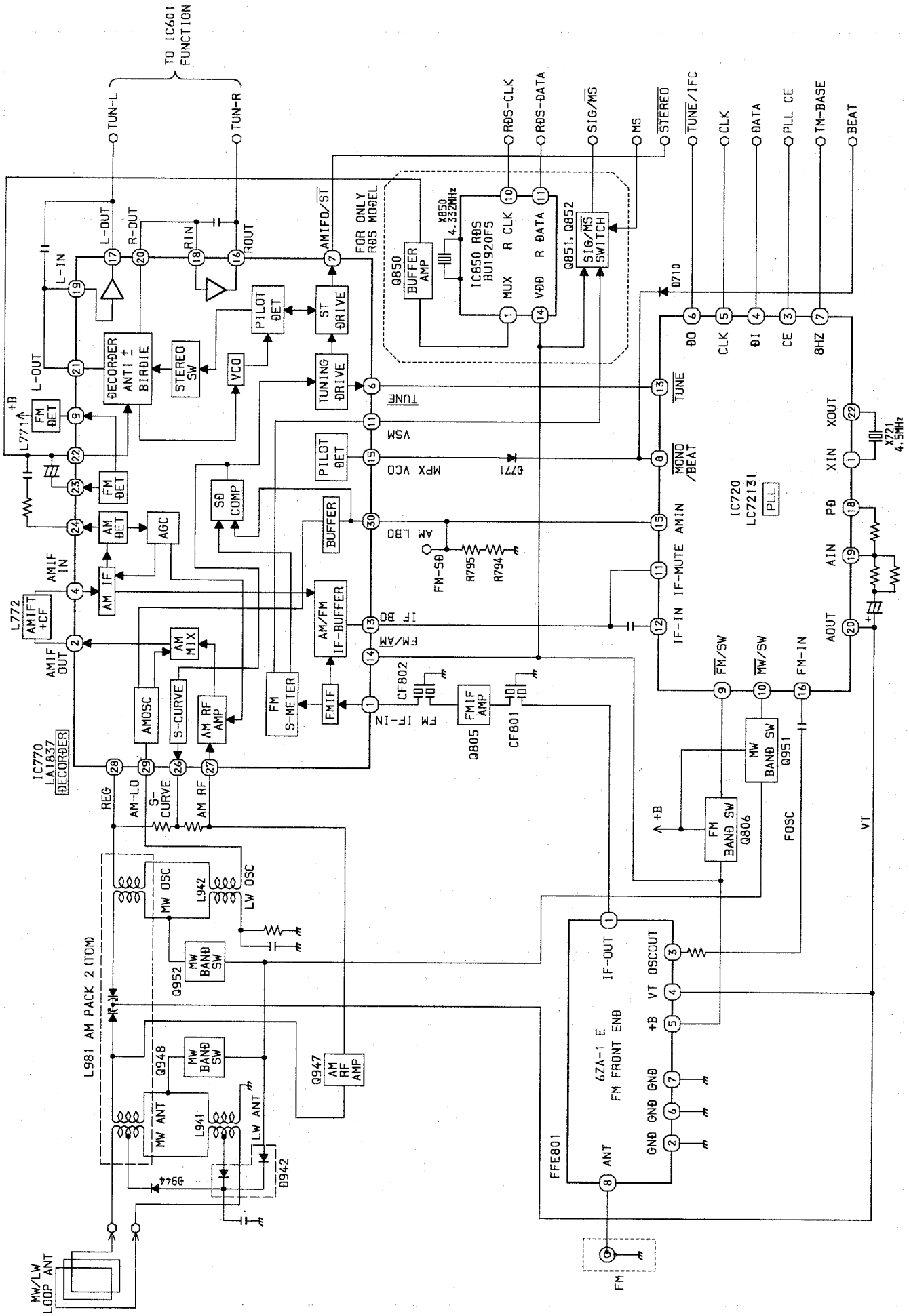
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード ：A Resistor Code: A
				外形／Form	L	W	t	
1／16W	1608	±5%	CJ		1.6	0.8	0.45	108
1／10W	2125	±5%	CJ		2	1.25	0.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.55	128

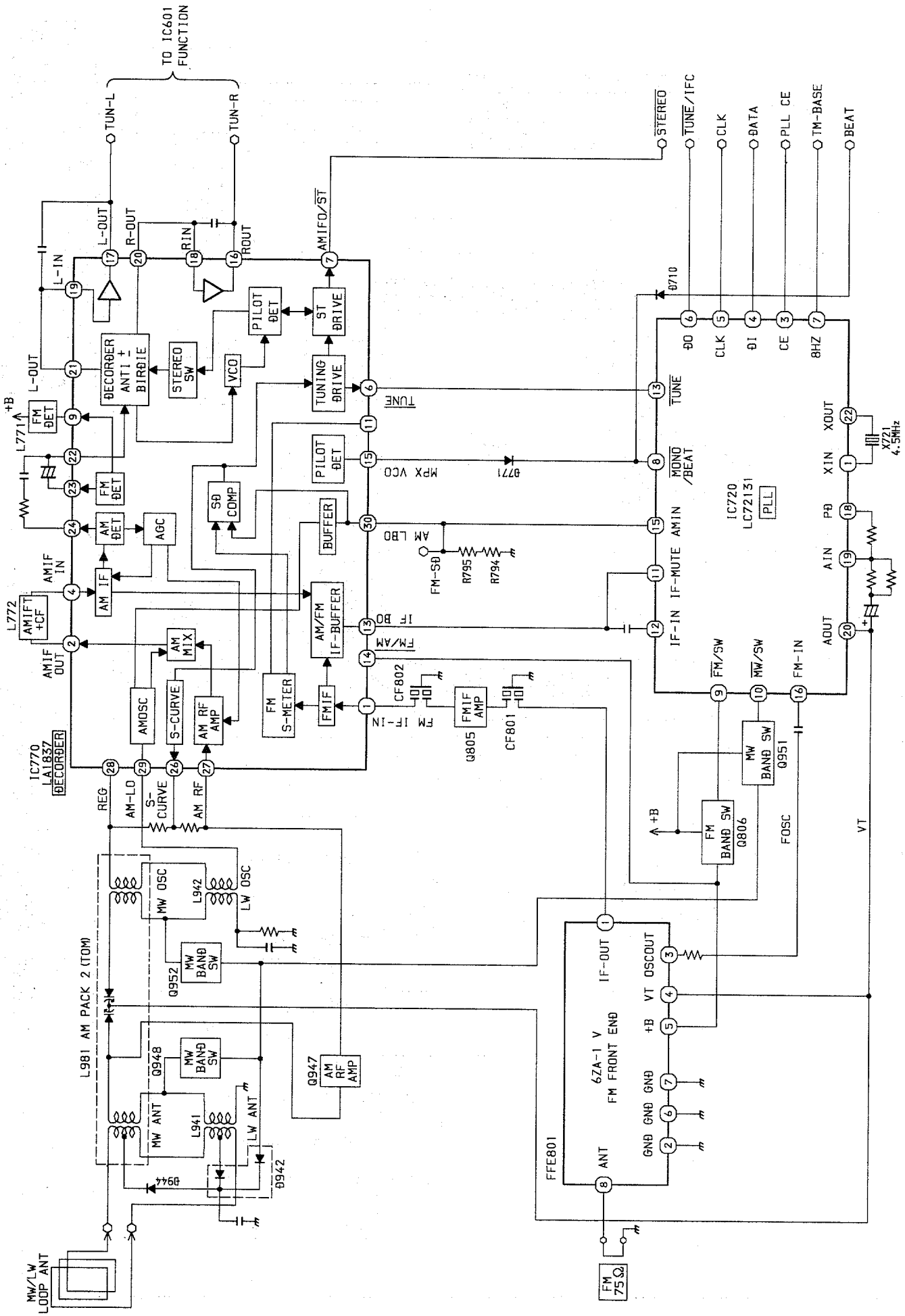
BLOCK DIAGRAM – 1 (TUNER : HR)



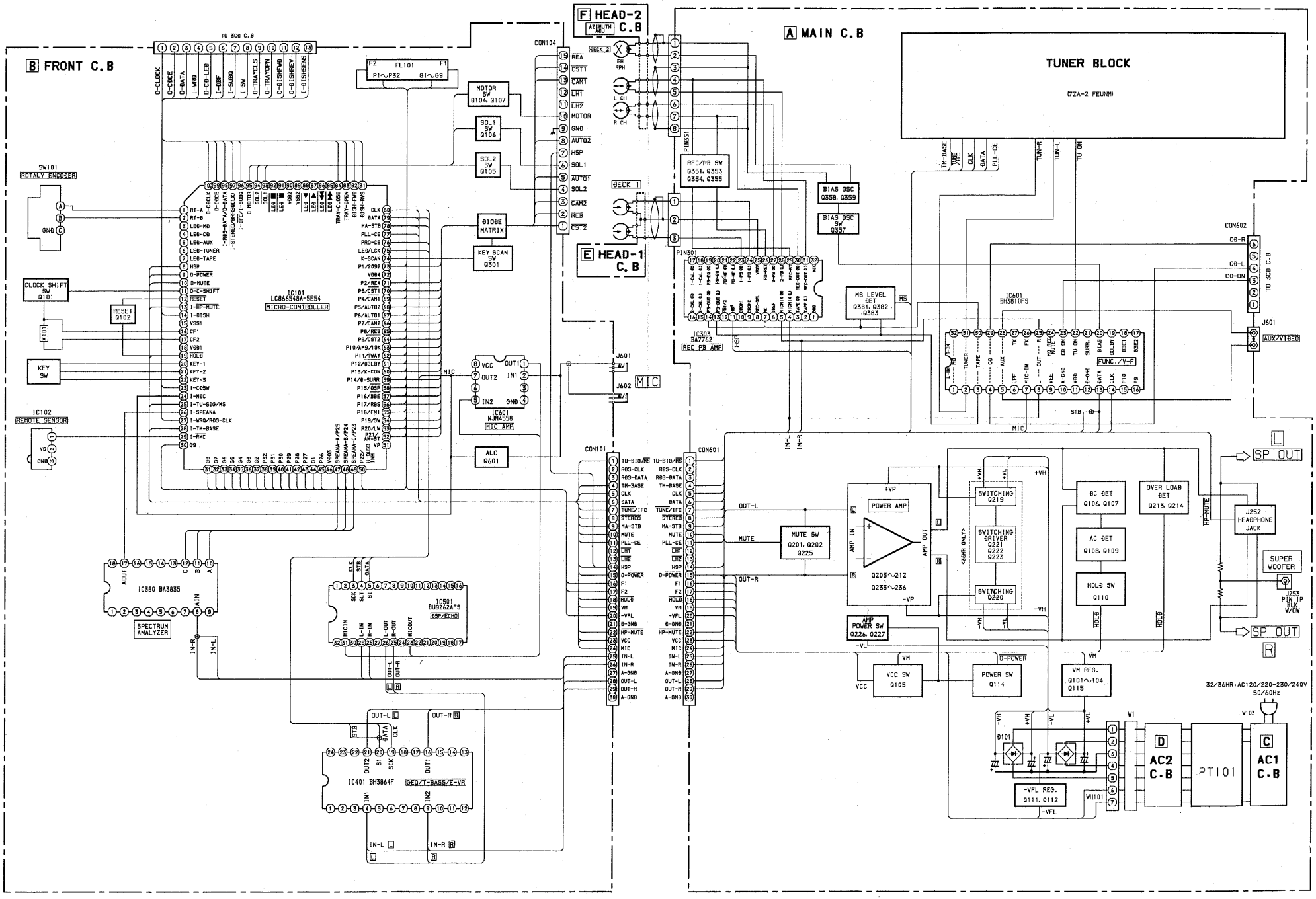
BLOCK DIAGRAM – 2 (TUNER : 30EZ, 33EZ, 35EZ, K)

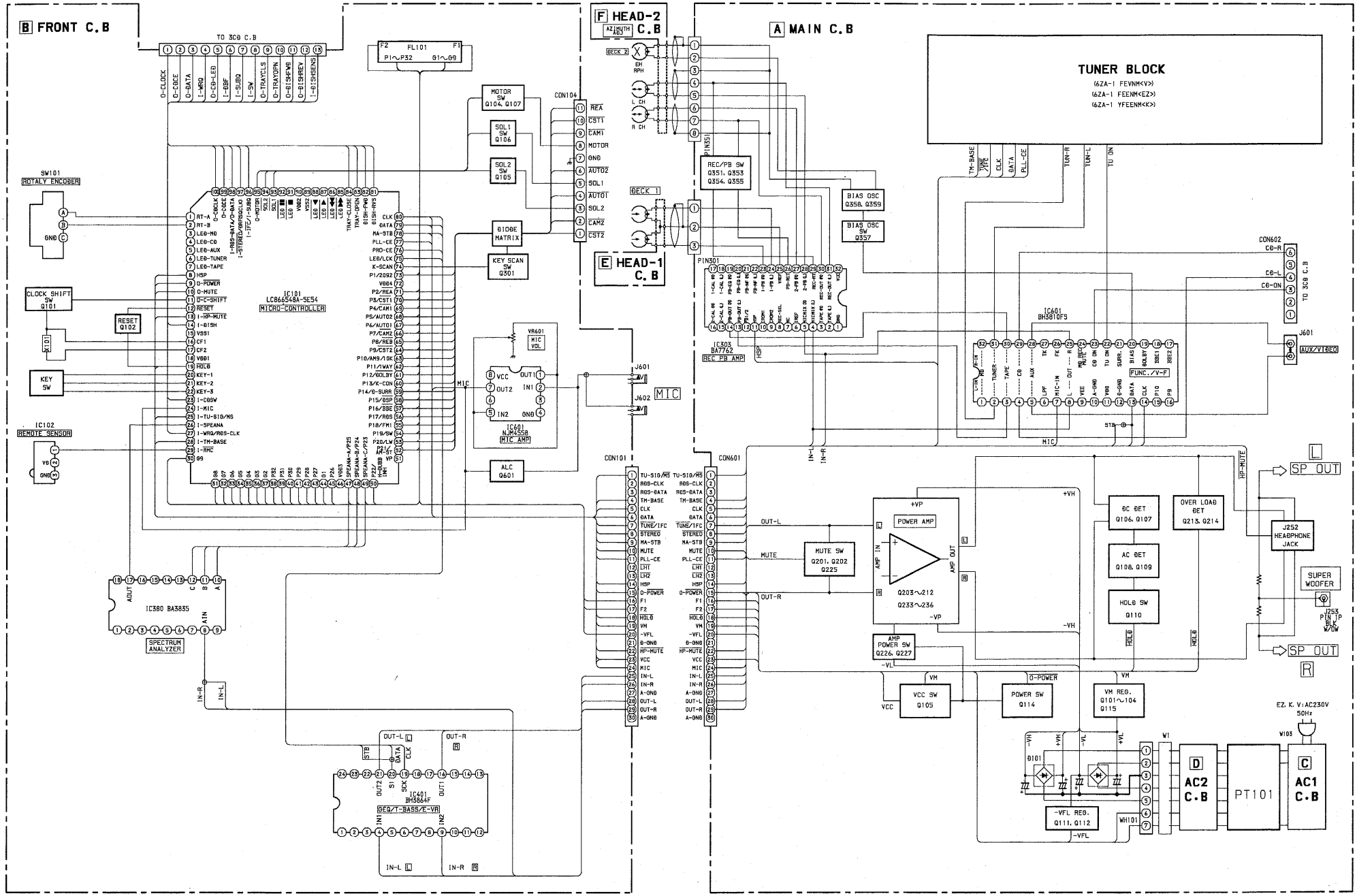


BLOCK DIAGRAM – 3 (TUNER : V)

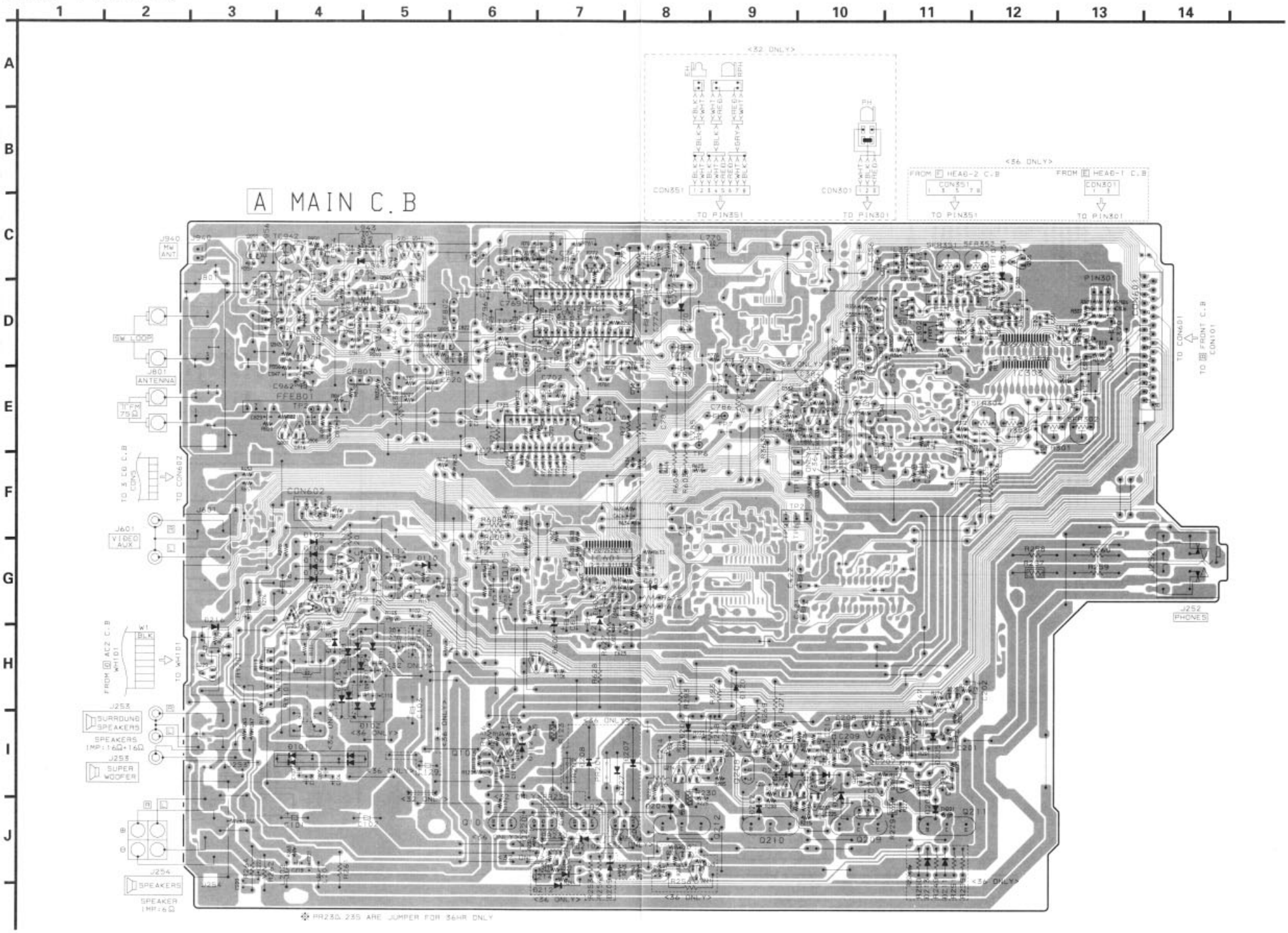


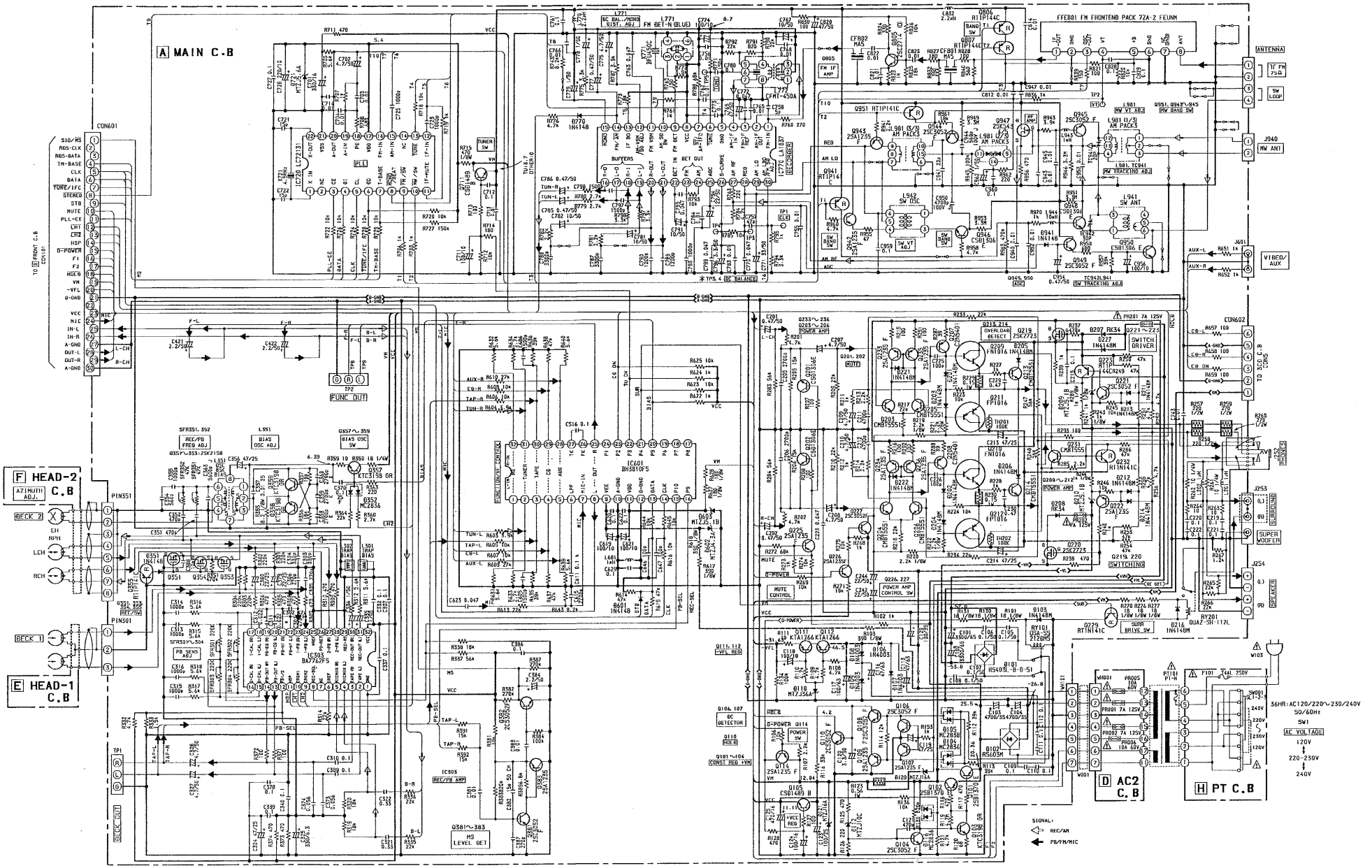
BLOCK DIAGRAM – 4 (MAIN : HR)

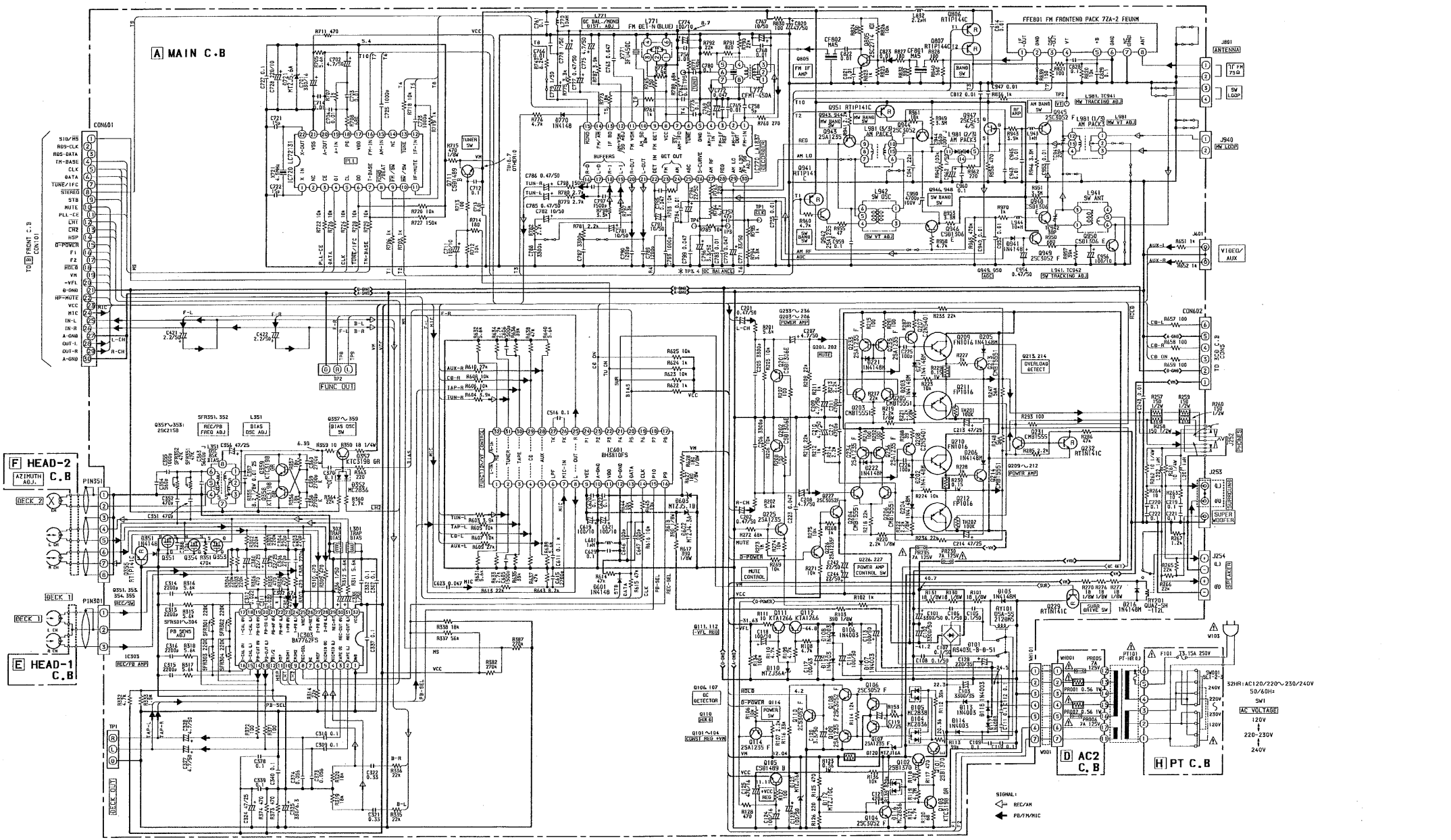



B FRONT C.B
F HEAD-2 C.B
E HEAD-1 C.B
A MAIN C.B
TUNER BLOCK
(6ZA-1 FEVNM<V>)
(6ZA-1 FEENM<EZ>)
(6ZA-1 YFEENM<K>)
IC101 LC866548A-5E54 MICRO-CONTROLLER
IC601 BH3810FS
IC303 BA7762 REC PB AMP
IC601 NJM4558 MIC AMP
IC380 BA3835 SPECTRUM ANALYZER
IC601 BH3864F GEQ/T-BASS/E-VR
REC/PB SW Q351, Q353 Q354, Q355
BIAS OSC Q358, Q359
BIAS OSC SW Q357
MOTOR SW Q104, Q107
SOL1 SW Q106
SOL2 SW Q105
DIODE MATRIX
KEY SCAN SW Q301
CLOCK SHIFT SW Q101
RESET Q102
KEY SW
SW101 ROTALY ENCODER
IC102 REMOTE SENSOR
VR601 MIC VOL
ALC Q601
MUTE SW Q201, Q202 Q225
POWER AMP
AMP POWER SW Q226, Q227
VCC SW Q105
POWER SW Q114
VM REG. Q101~104 Q115
-VFL REG. Q111, Q112
DC DET Q106, Q107
AC DET Q108, Q109
HOLD SW Q110
OVER LOAD DET Q213, Q214
J252 HEADPHONE JACK
SUPER WOOFER
SP OUT L
SP OUT R
FUNC./V-F
AUX/VIDEO
MIC
EZ, K, V:AC230V 50Hz
D AC2 C.B
C AC1 C.B
PT101

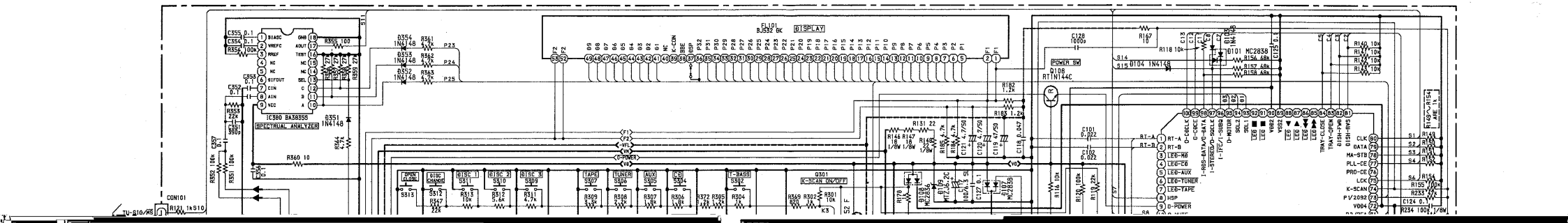
WIRING – 1 (MAIN : HR)



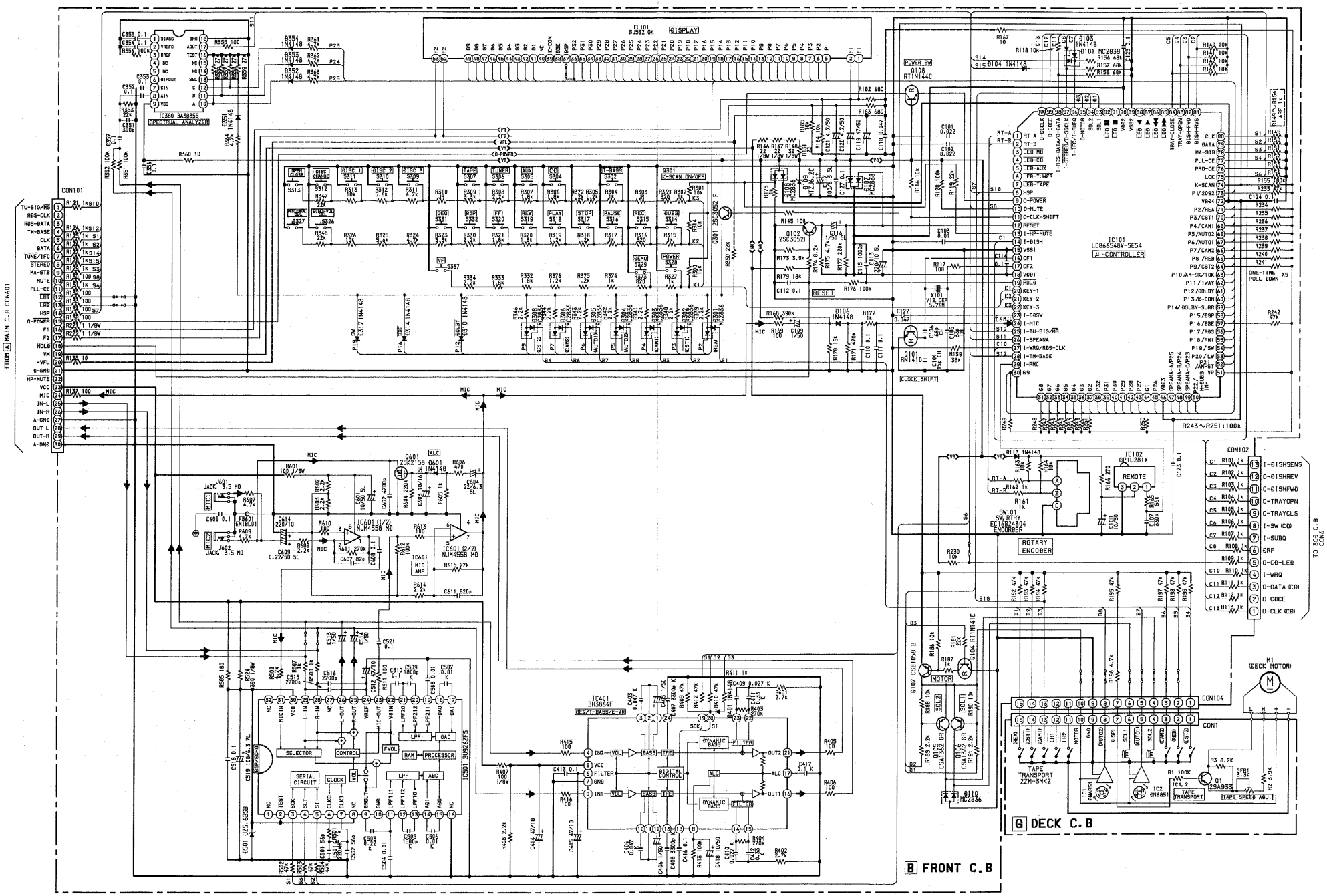

A MAIN C.B
F HEAD-2 C.B
E HEAD-1 C.B
D AC2 C.B
H PT C.B
FFE801 FM FRONTEND PACK 72A-2 FEUNM
ANTENNA
J940 MW ANT
VIDEO/ AUX
TO SCD C.B CON5
SPEAKER
SUPER WOOFER
SURROUND
FUNC OUT
DECK 2
DECK 1
DECK OUT
MIC
L-CH
R-CH
CON601
CON602
IC601 BH5810FS
IC303 BA7762FS
IC505 REC/PB AMP
Q111, 112 -VFL REG
Q101~104 CONST REG +VM
Q106, 107 DC DETECTOR
Q110 HOLD
MS LEVEL DET
SWITCHING
MUTE CONTROL
POWER AMP CONTROL SW
SURR DRIVE SW
SIGNAL: REC/AM PB/FM/MIC
36HR: AC120/220~230/240V 50/60Hz
AC VOLTAGE 120V 220-230V 240V


A MAIN C.B
F HEAD-2 C.B
AZIMUTH ADJ.
E HEAD-1 C.B
D AC2 C.B
H PT C.B
CON601
CON101
CON602
FFE801 FM FRONTEND PACK 7ZA-2 FEUNM
ANTENNA
SW LOOP
VIDEO AUX
SUBWOOFER
SUPER WOOFER
SPEAKER
FUNC OUT
REC/PB FREQ ADJ
BIAS OSC ADJ
BIAS OSC SW
REC/PB AMP
REC/SW
DECK 1
DECK 2
DECK OUT
PLL
FM DET-N (BLUE)
FM IF AMP
BAND SW
AM BAND SW
FM BAND SW
SW BAND SW
AF AMP
POWER AMP
POWER AMP CONTROL SW
MUTE CONTROL
OVERLOAD DETECT
SURR DRIVE SW
AC DETECTOR
POWER SW
CONST REG +VM
SIGNAL:
REC/AM
PB/FM/MIC
32HR: AC120/220~230/240V
50/60Hz
SW1
AC VOLTAGE
120V
220-230V
240V

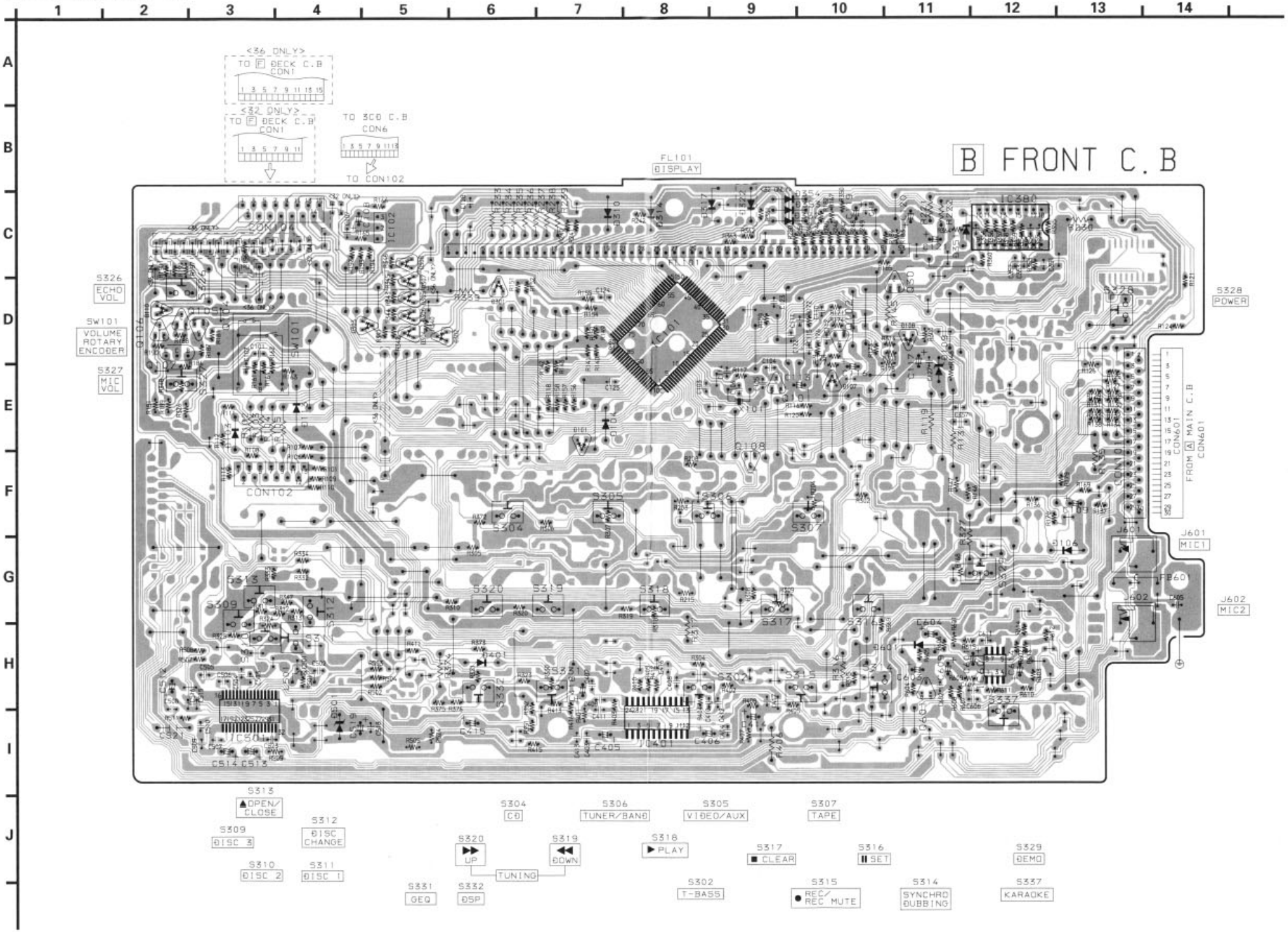
SCHEMATIC DIAGRAM – 3 (FRONT : 32HR)



SCHEMATIC DIAGRAM – 4 (FRONT : 36HR)

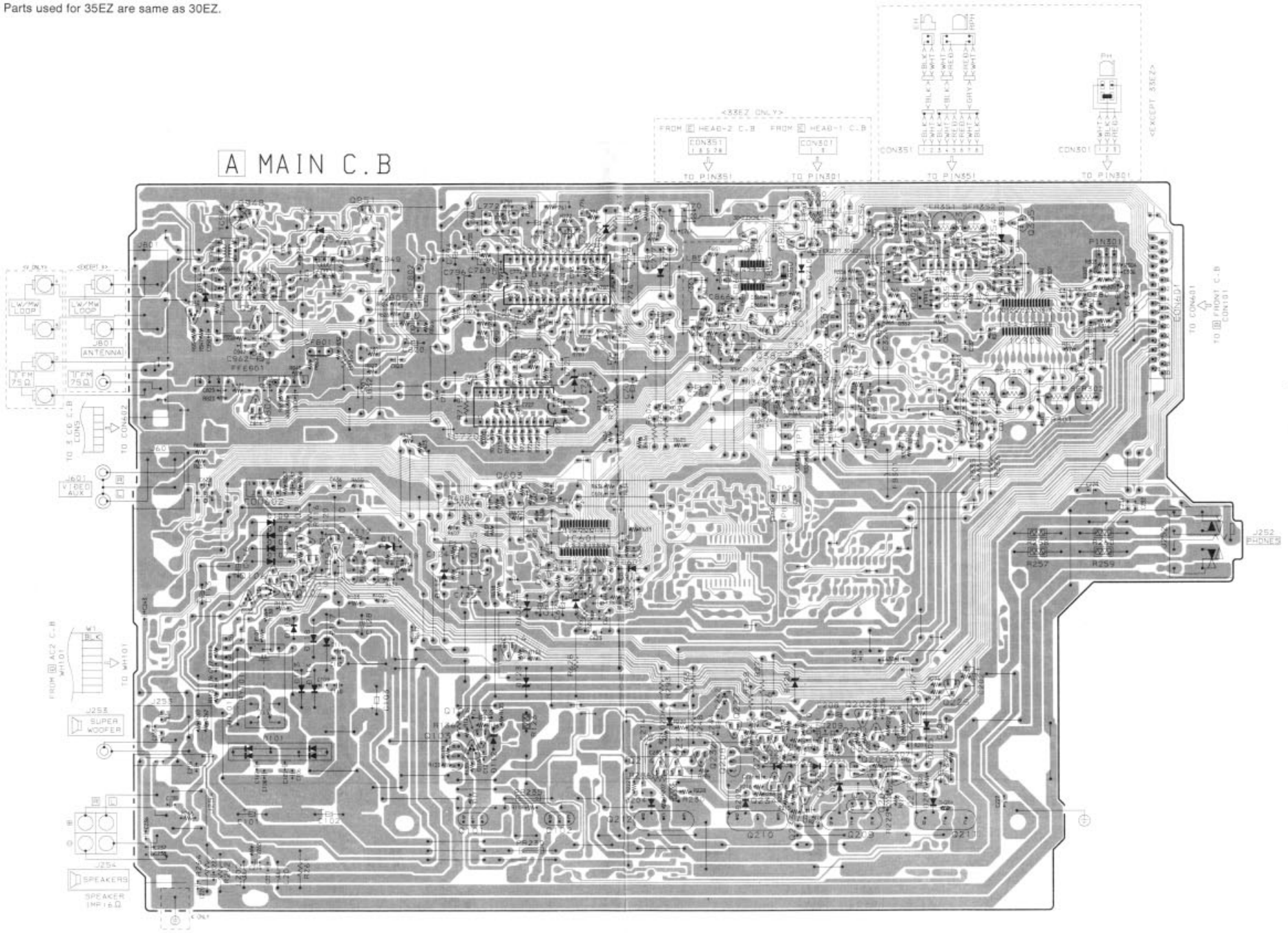


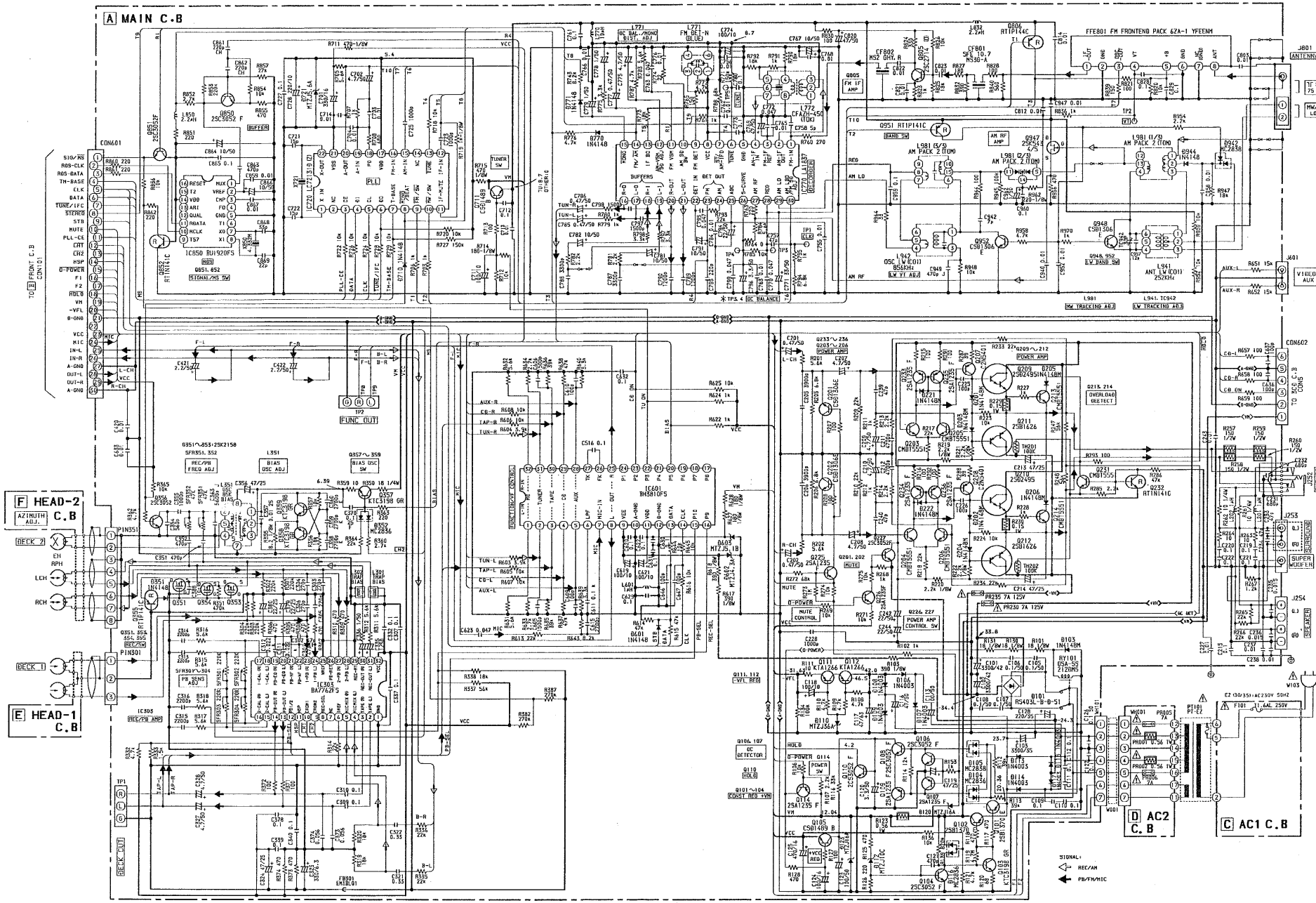
WIRING – 2 (FRONT : HR)

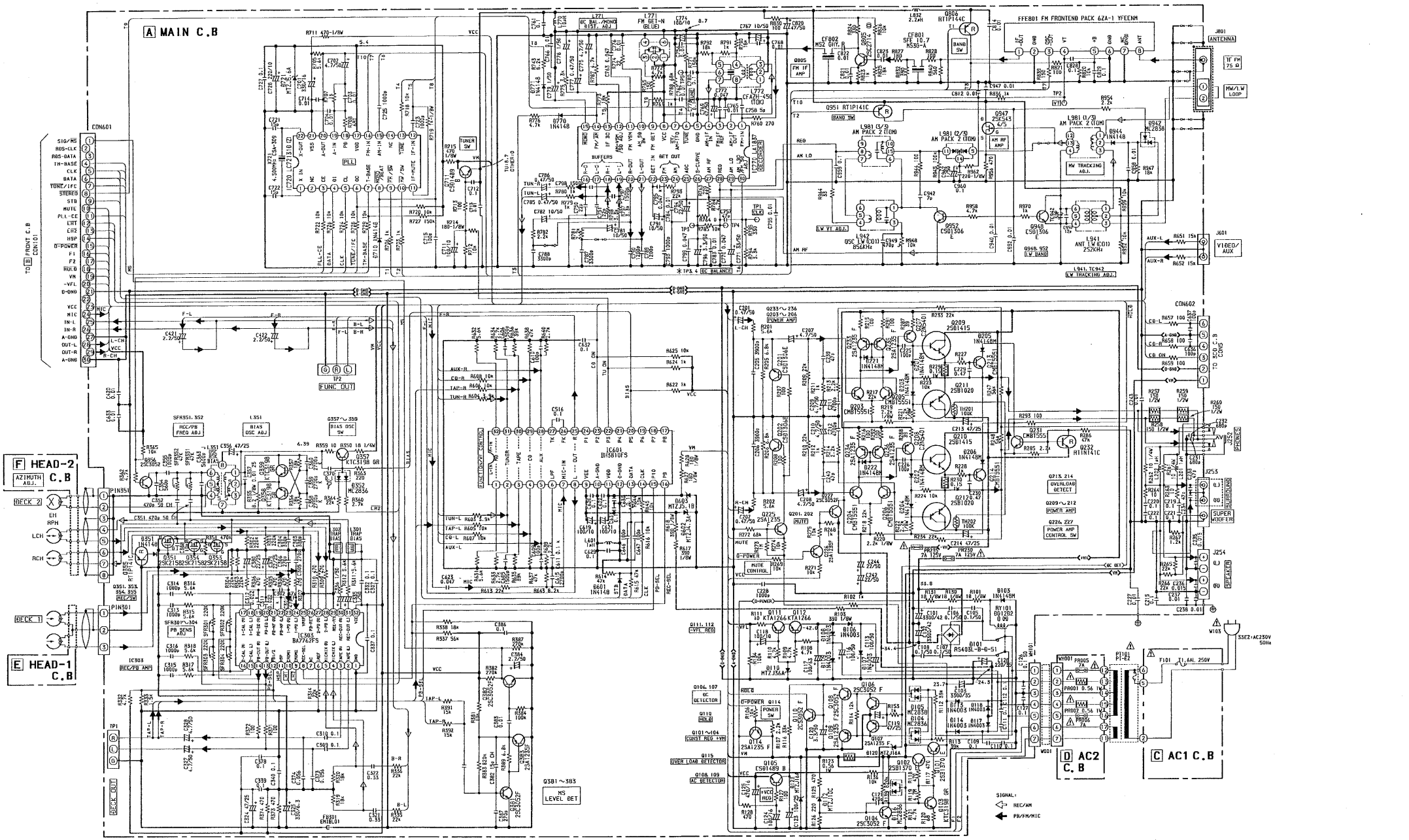


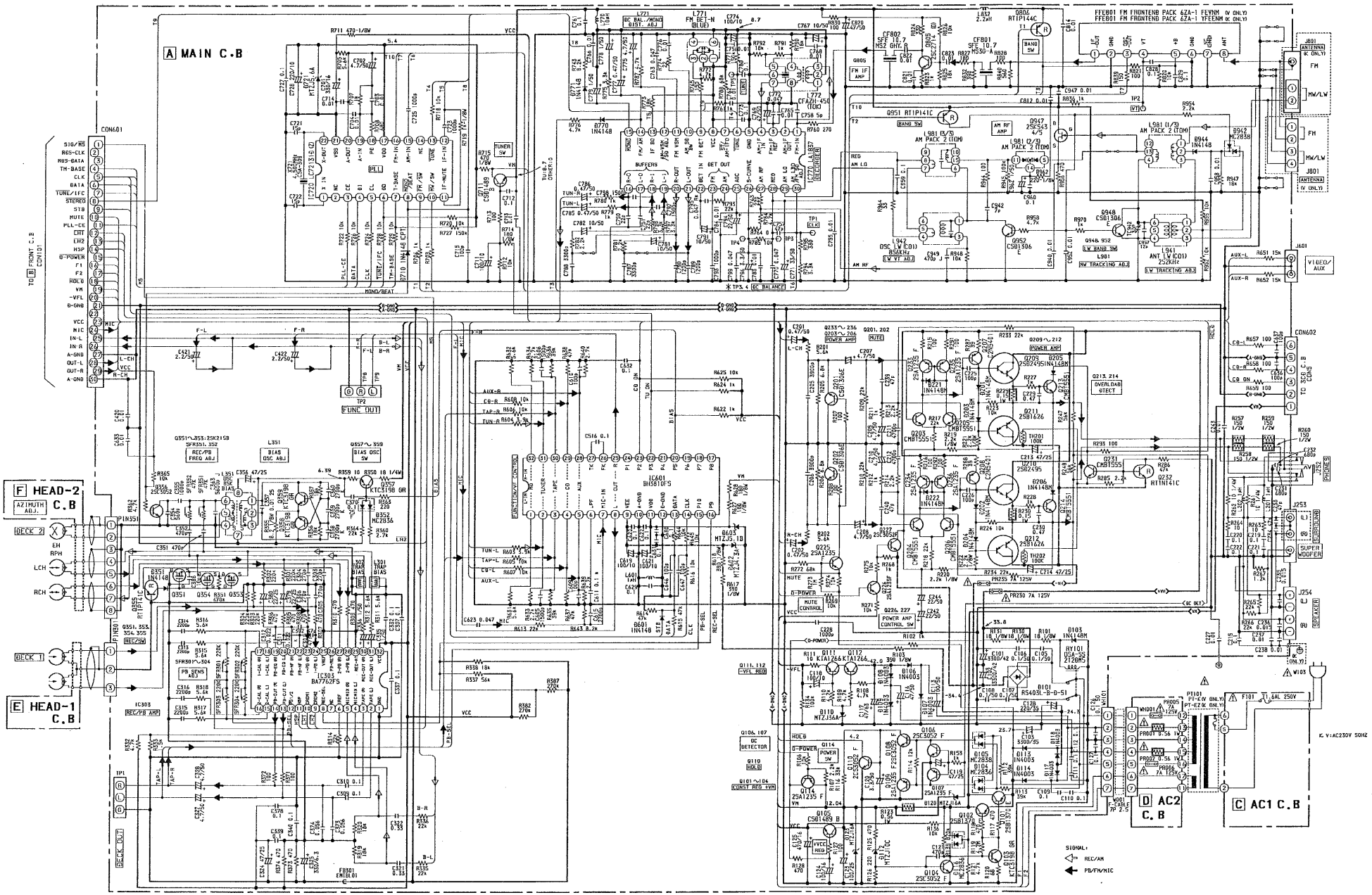
WIRING – 3 (MAIN : 30EZ, 33EZ, 35EZ, K, V)

* Parts used for 35EZ are same as 30EZ.

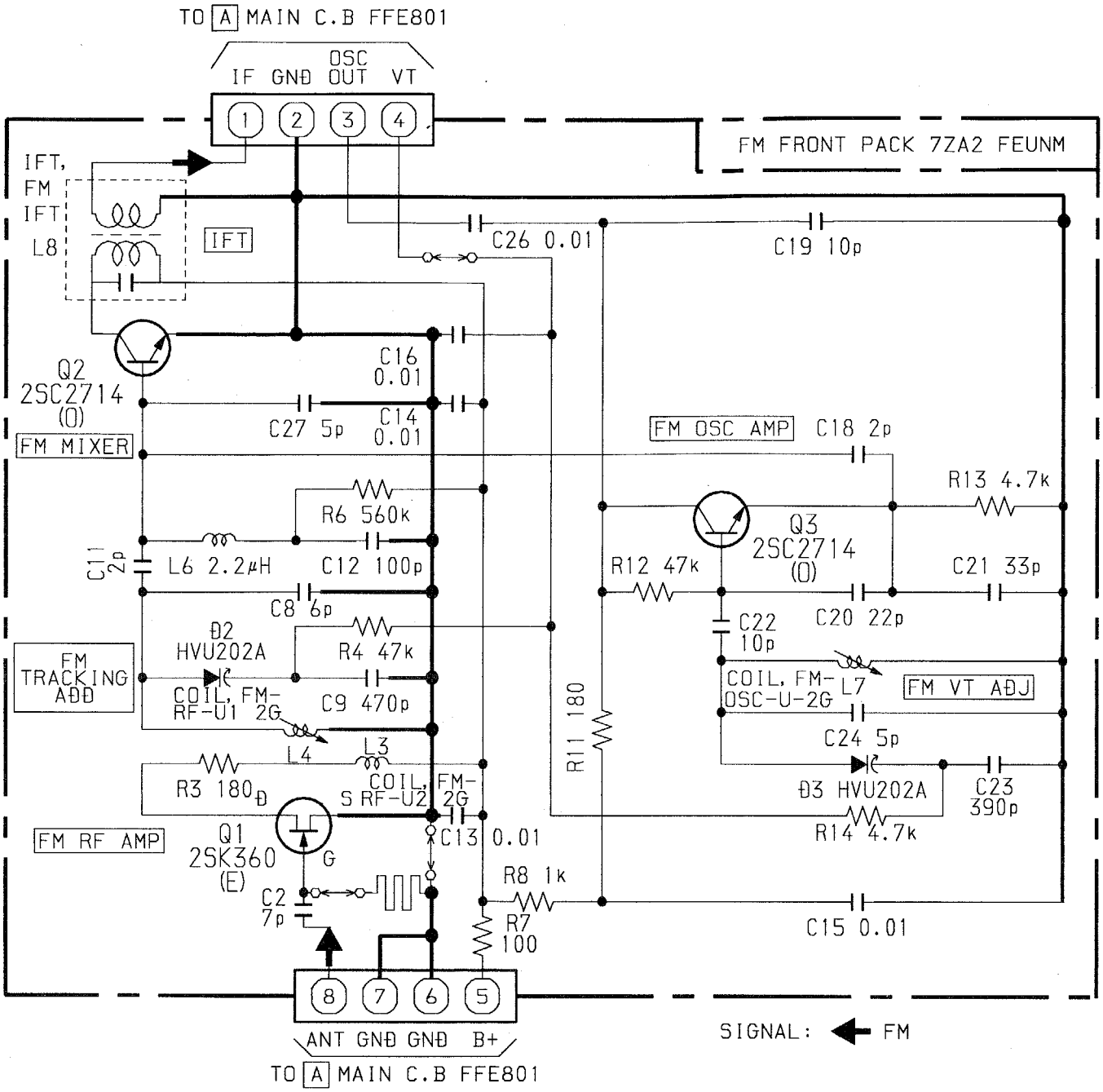



A MAIN C.B
F HEAD-2 C.B
E HEAD-1 C.B
D AC2 C.B
C AC1 C.B
FFE801 FM FRONTEND PACK 6ZA-1 YFEENM
ANTENNA
1F FM 75 Ω
MW/LW LOOP
AUX
VIDEO/ AUX
SUPER WOOFER
SPEAKER
TO AC2 C.B CONN
TO FRONT C.B CON101
CON601
CON602
FUNC OUT
DECK 2
DECK 1
DECK OUT
REC/PB FREQ ADJ
BIAS OSC ADJ
BIAS OSC SW
AZIMUTH ADJ.
REC/PB AMP
BUFFER
PLL
BUFFERS
BAND SW
AM RF AMP
AM PACK 2 (TOM)
OSC LW (COIL) 856KHz
LW VT ADJ
ANT LW (COIL) 252KHz
MW TRACKING ADJ
LW TRACKING ADJ
SIGNAL/MS SW
TUNER SW
POWER AMP
OVERLOAD DETECT
MUTE
POWER AMP CONTROL SW
DC DETECTOR
HOLD
CONST REG +VM
SIGNAL:
REC/AM
PB/FM/MIC

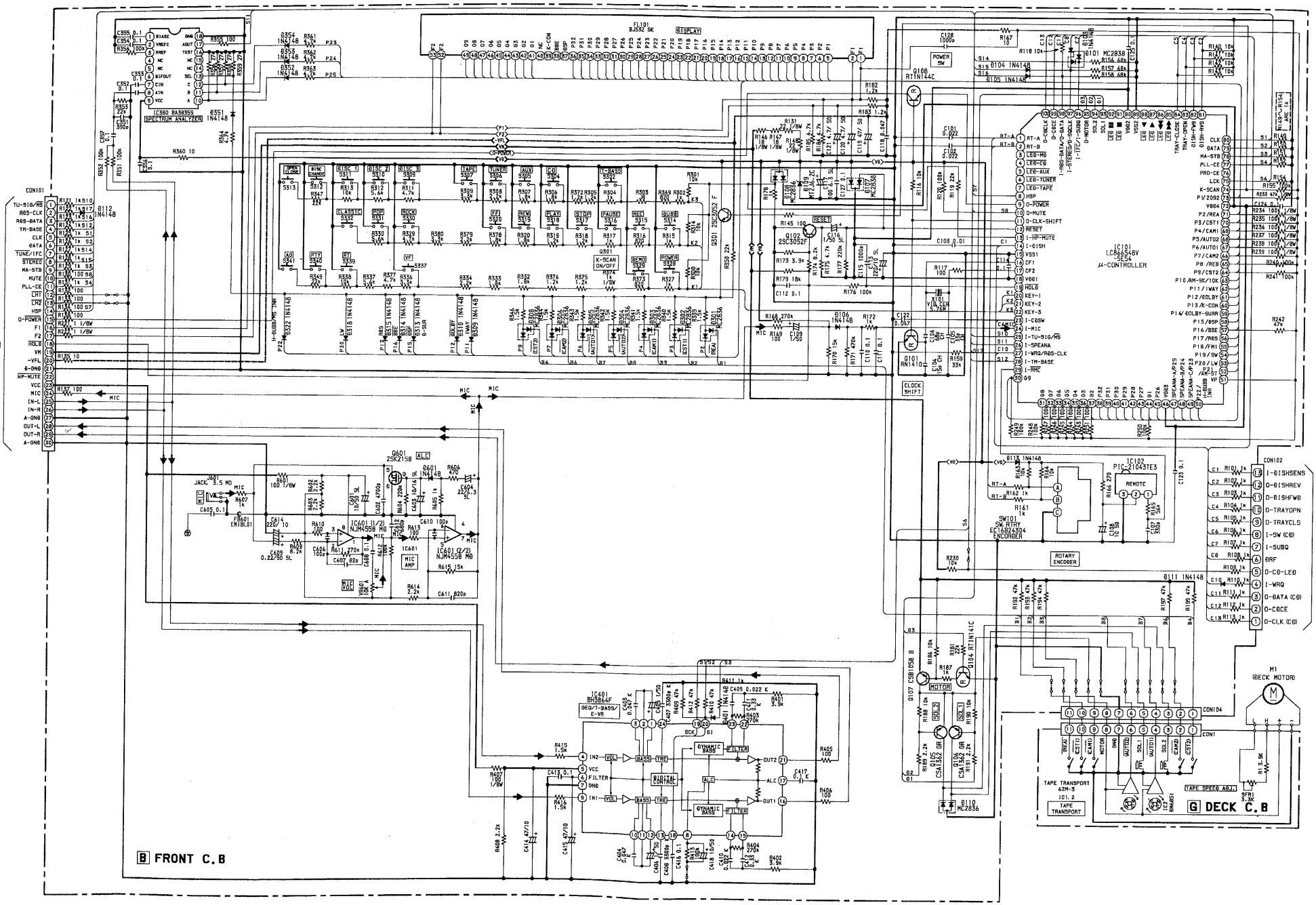

A MAIN C.B
F HEAD-2 C.B
E HEAD-1 C.B
D AC2 C.B
C AC1 C.B
FFE801 FM FRONTEND PACK 6ZA-1 YFEENM
L981 (1/3) AM PACK 2 (10M)
L981 (2/3) AM PACK 2 (10M)
L981 (3/3) AM PACK 2 (10M)
L942 OSC LW (CO1) 856KHz
L941 ANT LW (CO1) 252KHz
L941, TC942 LW TRACKING ADJ.
HW TRACKING ADJ.
AM LO
AM RF
REG
LW V1 ADJ.
BAND SW
IC601 BH5610FS
IC602 BA7762FS
IC303 REC/PB AMP
IC501 LC72131D
Q111, 112 +VPC REG
Q104, 107 DC DETECTOR
Q110 MUTE
Q101~104 CONST REG VVM
Q115 OVER LOAD DETECTOR
Q106, 109 AC DETECTOR
Q501~503 MS LEVEL DET
Q601~603 REC/PB SW
Q215, 214 OVERLOAD DETECT
Q209~212 POWER AMP
Q224, 227 POWER AMP CONTROL SW
Q201, 202 MUTE
MUTE CONTROL
POWER SW
REC/PB FREQ ADJ.
BIAS OSC ADJ.
BIAS OSC SW
AZIMUTH ADJ.
REC/PB LEVEL ADJ.
DECK 1
DECK 2
TUNER
FUNC OUT
DECK OUT
ANTENNA
TF FM 75 Ω
HW/LW LOOP
V1(O)/AUX
PHONES
SURROUND
SUPER WOOFER
SPEAKER
33EZ+AC250V 50Hz
SIGNAL:
REC/AM
PB/FM/MIC


A MAIN C.B
F HEAD-2 C.B
E HEAD-1 C.B
D AC2 C.B
C AC1 C.B
CON601
IC601 BH3810FS
IC303 BA7762FS
IC305
Q951 RT1P141C
Q804 RT1P144C
Q947 2SC5343
Q948 2SC1506
Q949 2SC1506
Q952 RT1N141C
Q211 2SB1626
Q212 2SB1626
Q213,214 OVERLOAD DTECT
Q101~104 CONST REG VM
Q111,112 VFL REG
Q104,107 DC DETECTOR
Q110 HOLD
Q114 POWER SW
Q115 MUTE
Q116 D-POWER
Q117 HOLD
Q118 VFL
Q119 VM
Q120 VCC
Q121 VFL
Q122 VFL
Q123 VFL
Q124 VFL
Q125 VFL
Q126 VFL
Q127 VFL
Q128 VFL
Q129 VFL
Q130 VFL
Q131 VFL
Q132 VFL
Q133 VFL
Q134 VFL
Q135 VFL
Q136 VFL
Q137 VFL
Q138 VFL
Q139 VFL
Q140 VFL

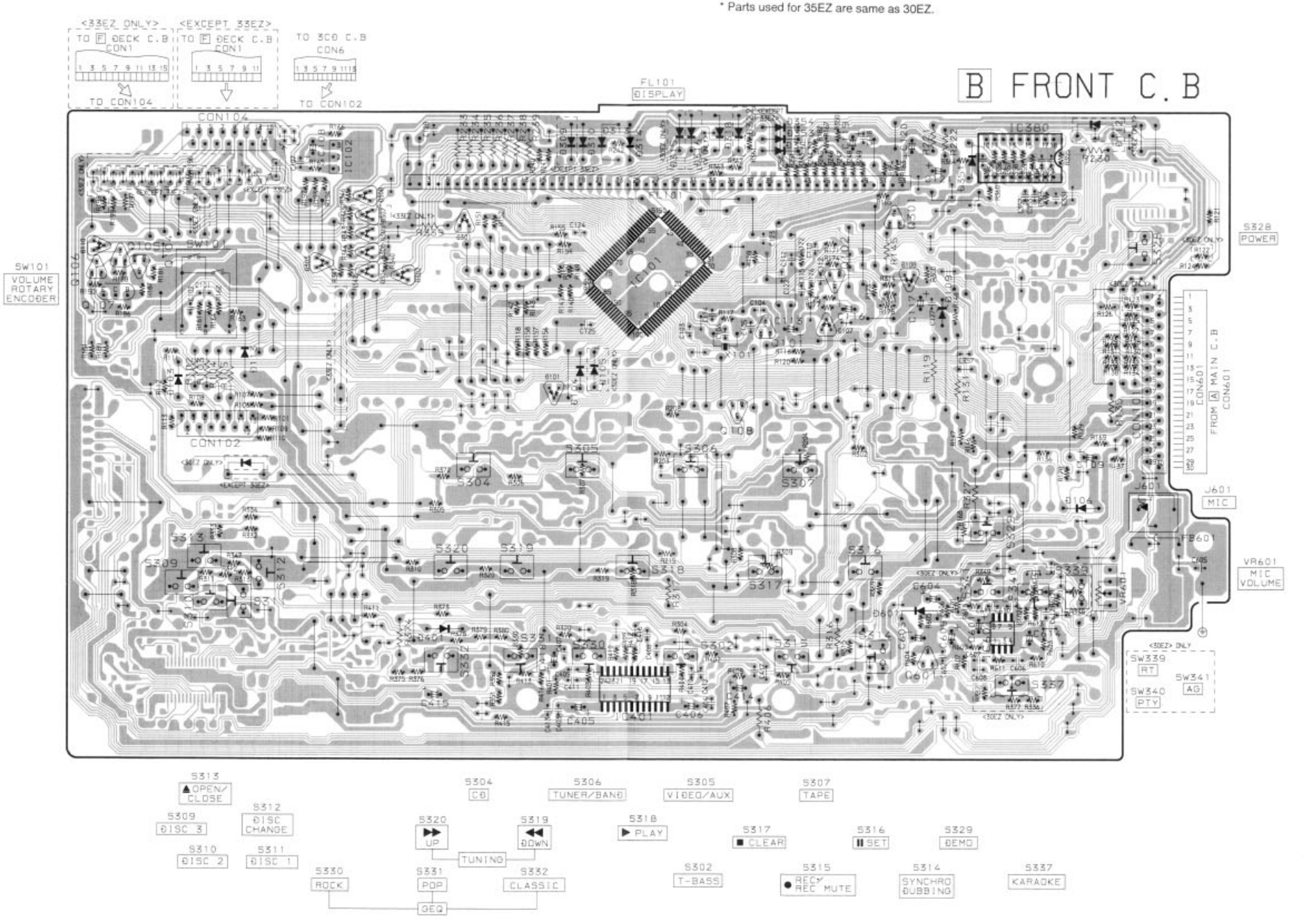
SCHEMATIC DIAGRAM – 8 (TUNER : 7ZA - 2)



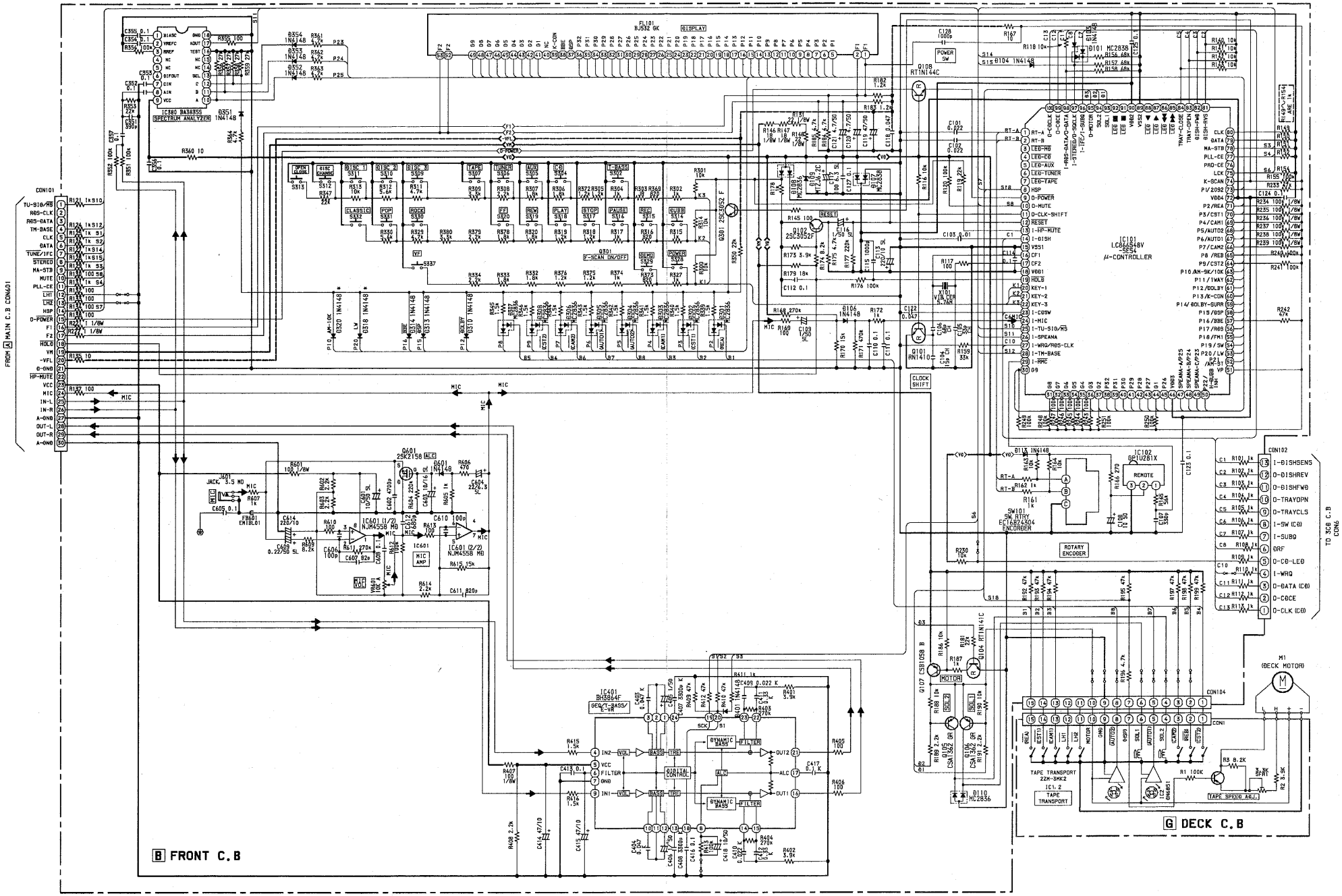
SCHEMATIC DIAGRAM – 9 (FRONT : 30EZ, 35EZ)



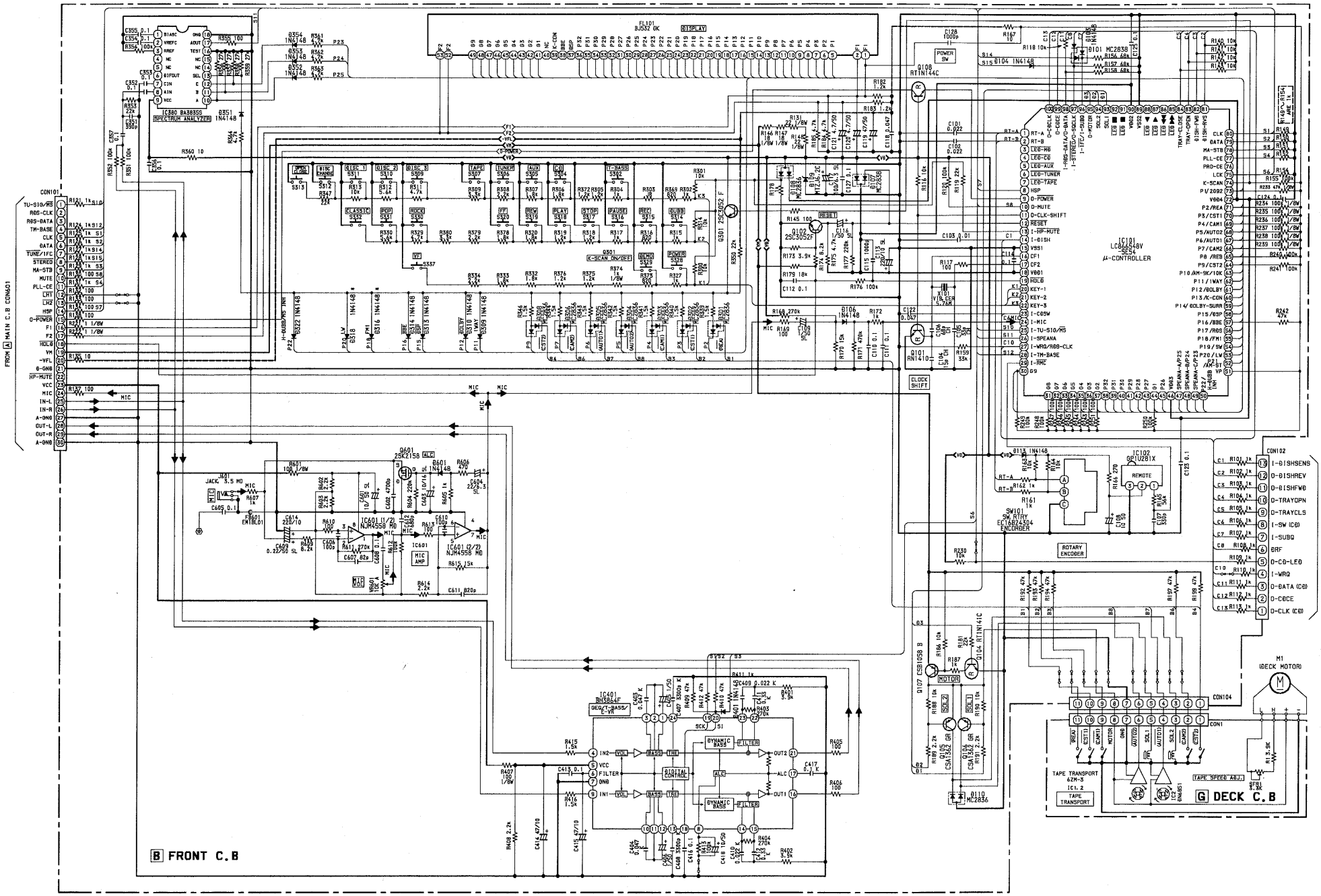
* Parts used for 35EZ are same as 30EZ.



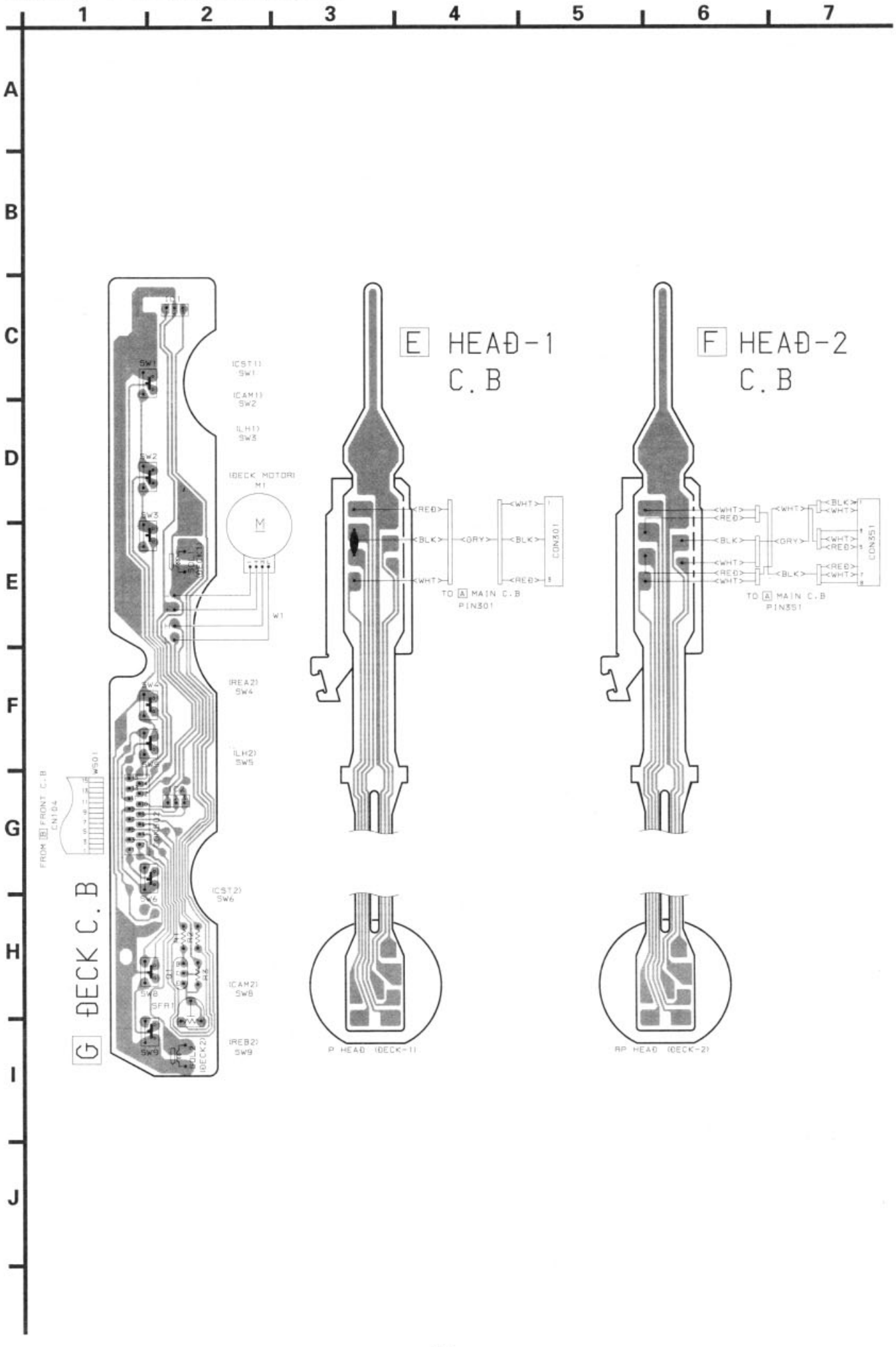
SCHEMATIC DIAGRAM – 10 (FRONT : 33EZ)



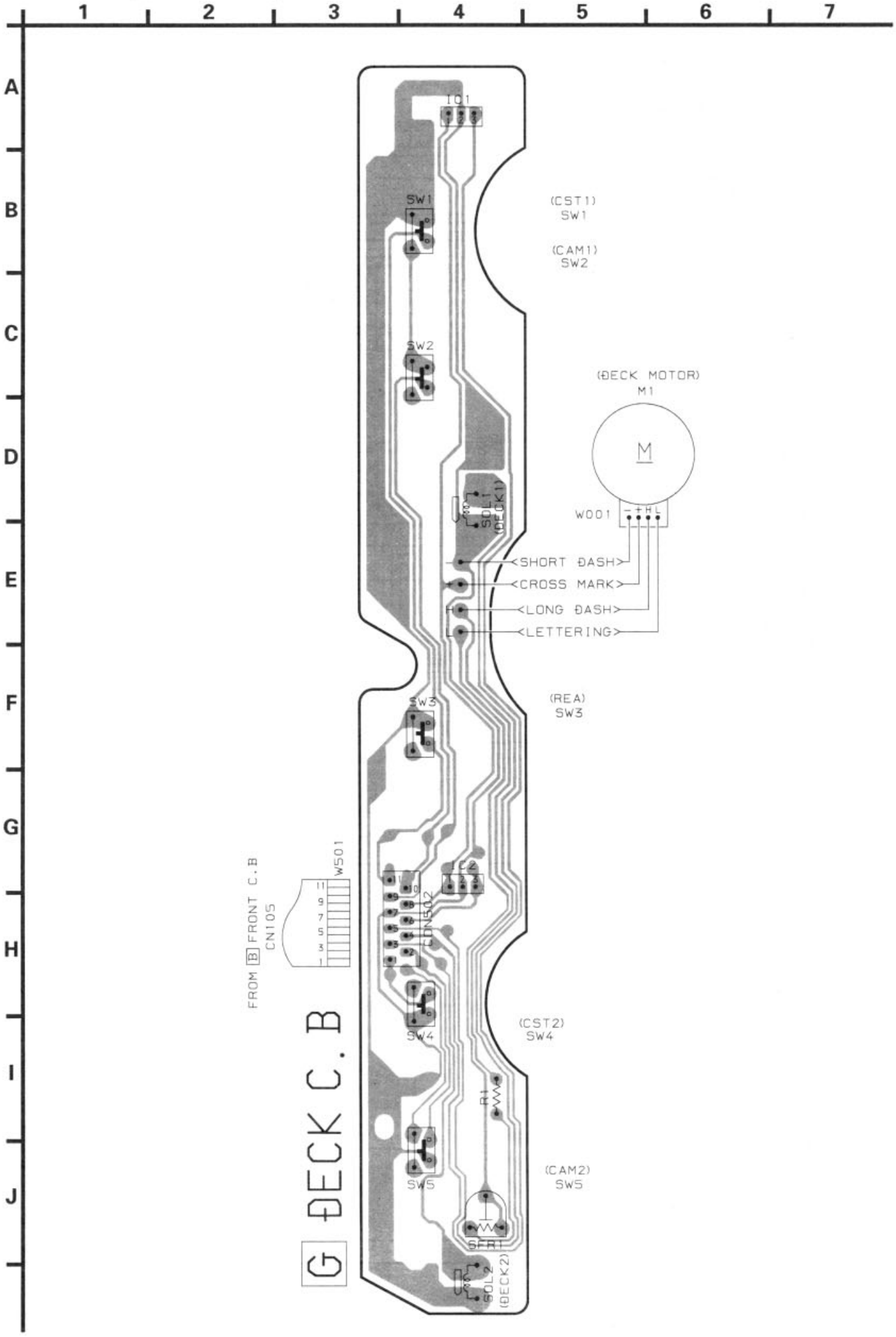
SCHEMATIC DIAGRAM – 11 (FRONT : K, V)

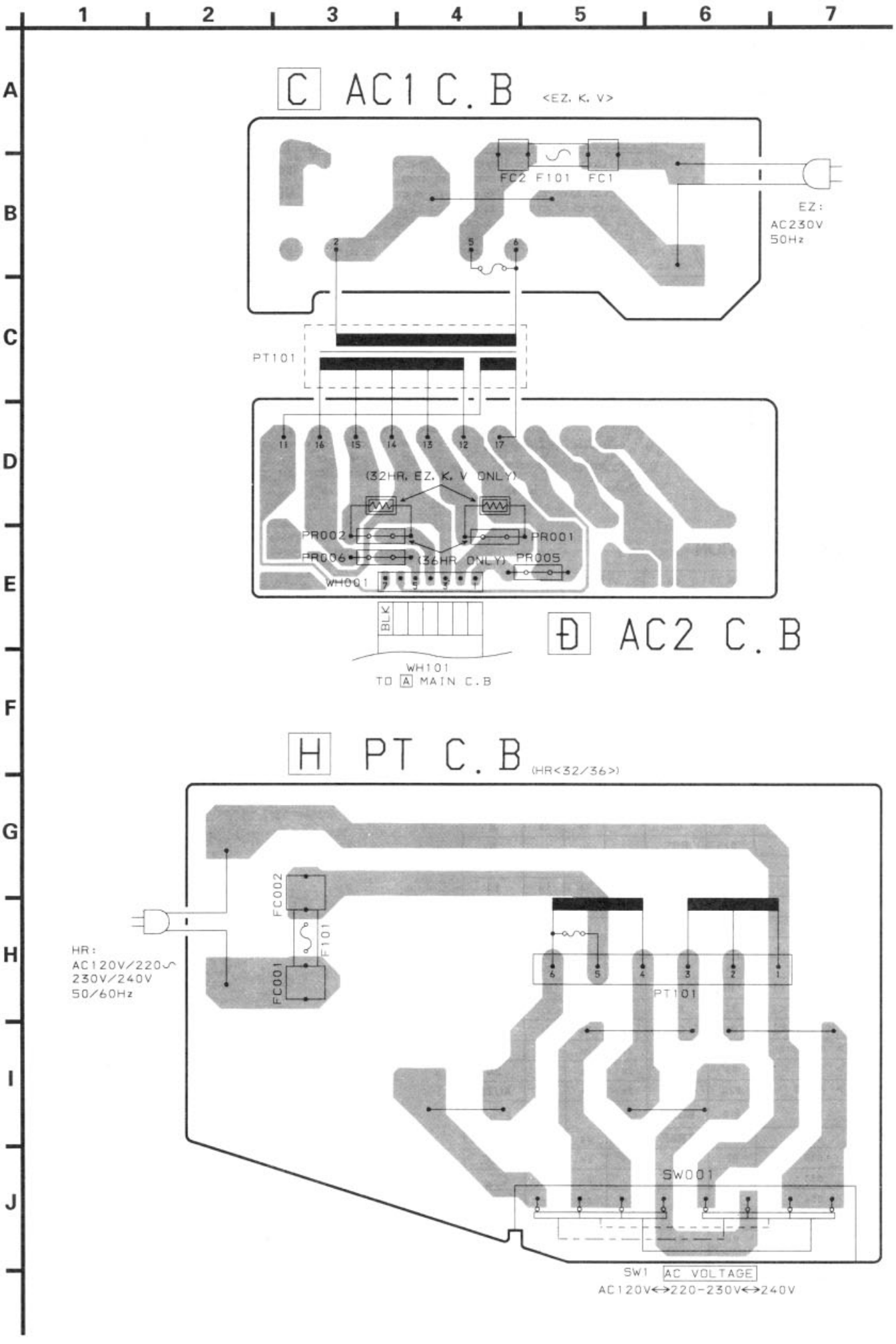


WIRING – 5 (DECK : 2ZM-3 MK2)



WIRING – 6 (DECK : 6ZM-3)

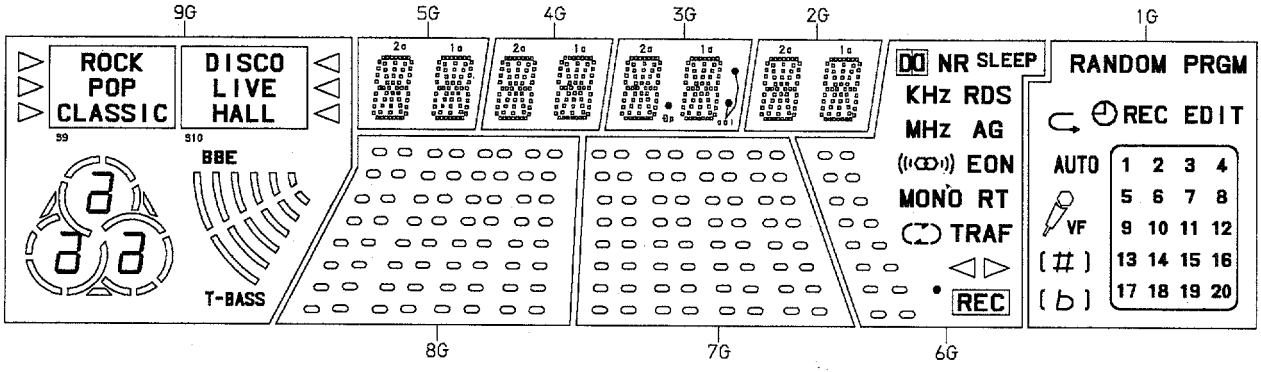


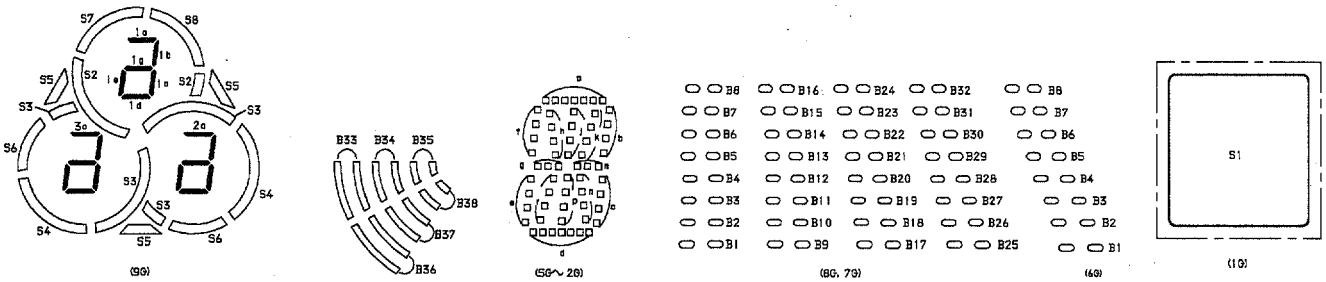

1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
C AC1 C.B
<EZ, K, V>
FC2 F101 FC1
EZ:
AC230V
50Hz
2
5
6
PT101
11
16
15
14
13
12
17
(32HR, EZ, K, V ONLY)
PR002
PR001
PR006
(36HR ONLY) PR005
WH001
BLK
WH101
TO A MAIN C.B
D AC2 C.B
H PT C.B
(HR<32/36>)
FC002
F101
FC001
HR:
AC120V/220~
230V/240V
50/60Hz
6
5
4
3
2
1
PT101
SW001
SW1 AC VOLTAGE
AC120V↔220-230V↔240V

FL GRID ASSIGNMENT AND ANODE CONNECTION

FL, BJ532GK

GRID ASSIGNMENT



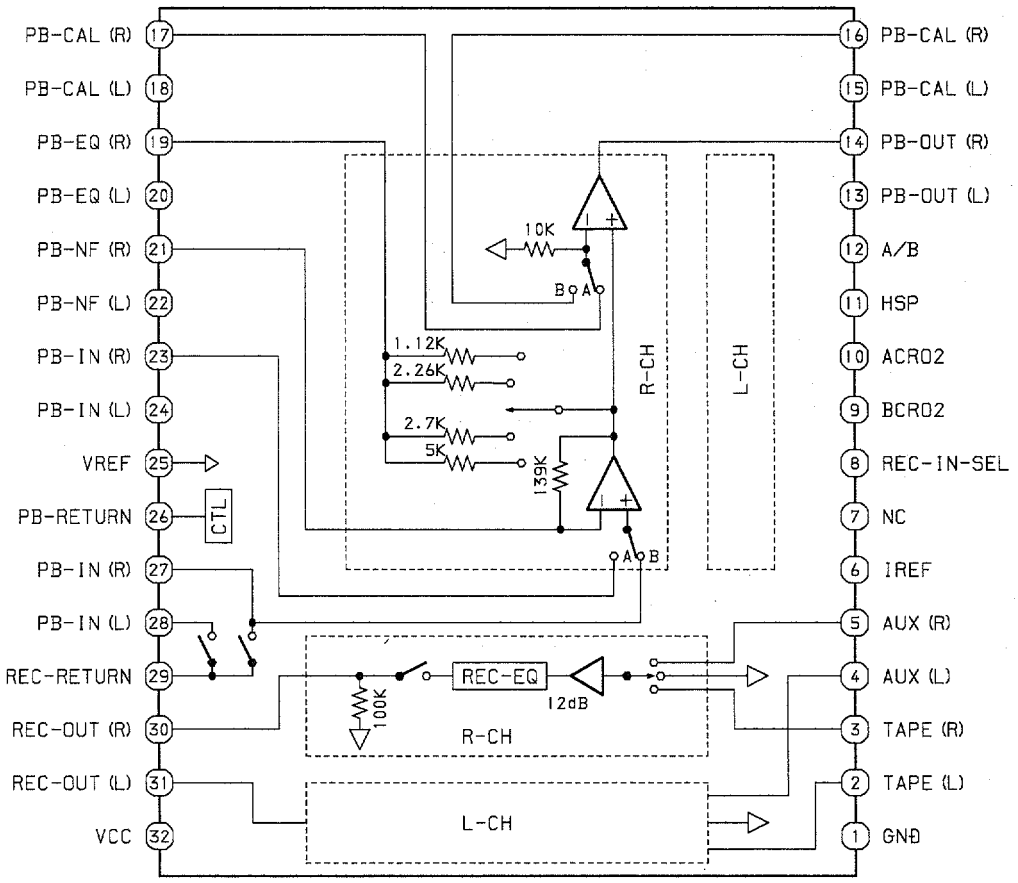


ANODE CONNECTION

	9G	8G, 7G	6G	5G, 4G	3G	2G	1G
P1	S8	B32	▷	-	col(DN)	-	RANDOM
P2	S2	B24	◁	1d	1d	1d	-
P3	1b	B16	SLEEP	1n	1n	1n	PRGM
P4	1c	B8	B8	1p	1p	1p	EDIT
P5	1e	B31	○	1r	1r	1r	1
P6	1a, 1d, 1g	B23	REC	1e	1e	1e	2
P7	2b	B15	KHz	1c	1c	1c	3
P8	2c	B7	B7	1g	1g	1g	4
P9	2e	B30	MHz	1m	1m	1m	5
P10	2a, 2d, 2g	B22	-	1f	1f	1f	6
P11	3b	B14	DOLBY NR	1b	1b	1b	7
P12	3c	B6	B6	1k	1k	1k	8
P13	3e	B29	RDS	1j	1j	1j	9
P14	3a, 3d, 3g	B21	-	1h	1h	1h	10
P15	S3	B13	-	1a	1a	1a	11
P16	S5	B5	B5	-	col(UP)	-	12
P17	S7	B28	-	-	Dp	-	13
P18	S4	B20	-	2a	2a	2a	14
P19	S6	B12	-	2n	2n	2n	15
P20	(HALL) ◁	B4	B4	2p	2p	2p	16
P21	(LIVE) ◁	B27	AG	2r	2r	2r	17
P22	(DISCO) ◁	B19	((EON))	2e	2e	2e	18
P23	▷ (CLASSIC)	B11	EON	2c	2c	2c	19
P24	▷ (POP)	B3	B3	2g	2g	2g	20
P25	▷ (ROCK)	B26	RT	2m	2m	2m	AUTO
P26	B36	B18	MONO	2f	2f	2f	VF
P27	B37	B10	TRAF	2b	2b	2b	⏲
P28	B38	B2	B2	2k	2k	2k	REC
P29	B33	B25	)	2j	2j	2j	⟲
P30	B34	B17	⇄	2h	2h	2h	[(#)]
P31	B35	B9	(	2a	2a	2a	[(♭)]
P32	S9 T-BASS	B1	B1	-	-	-	S1
P33	S10	-	-	-	-	-	-
P34	BBE	-	-	-	-	-	-
P35	-	-	-	-	-	-	♭ #

IC BLOCK DIAGRAM

IC, BA7762FS



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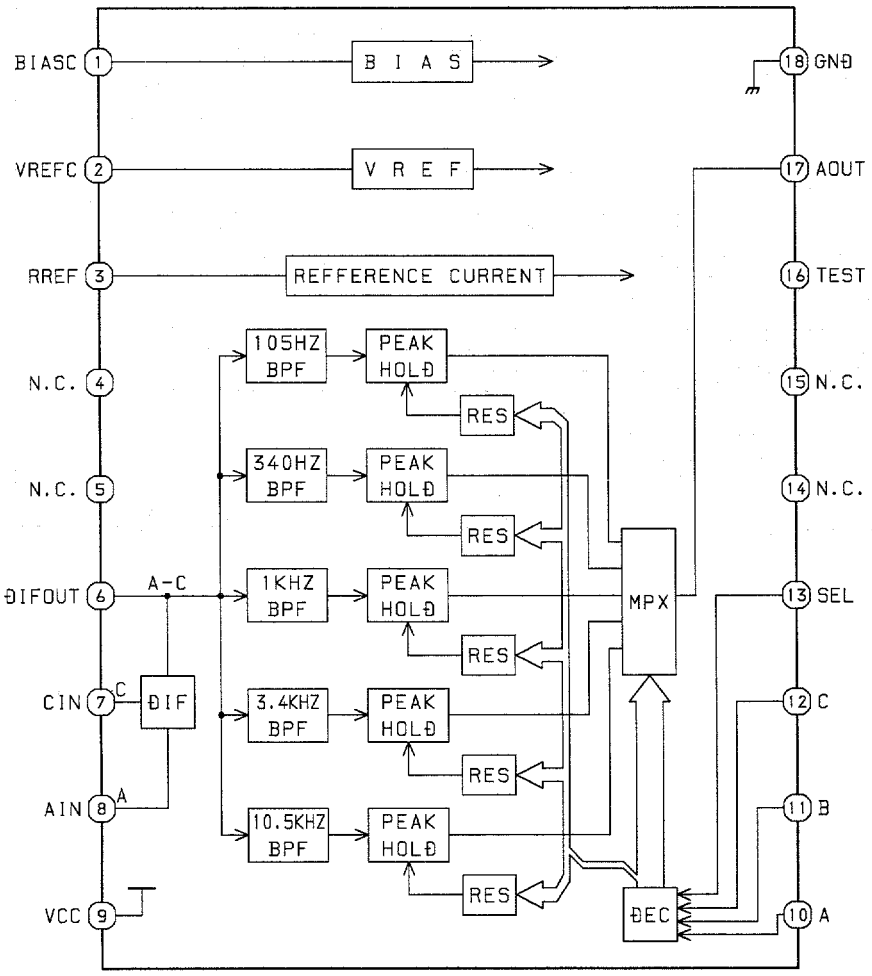

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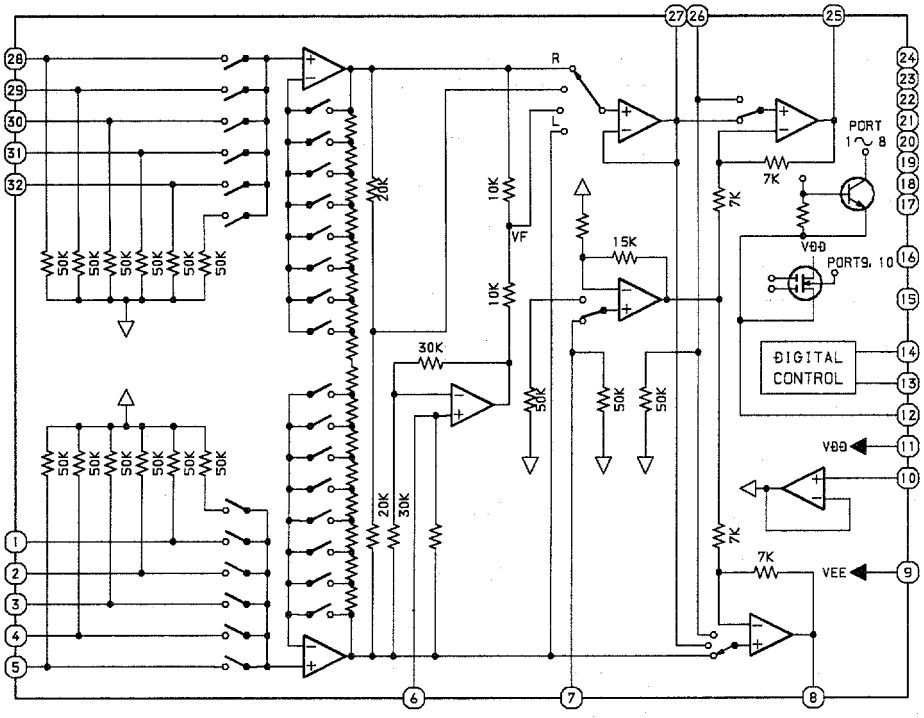

IC, LA1837