

# JVC

## SCHEMATIC DIAGRAMS

COLOUR TELEVISION

### HV-32D25EUW

### HV-32D25EJW

CD-ROM No.SML200301

BASIC CHASSIS

MK



**D.I.S.T. 1250i**

InterArt

*Natural Vision*

**T-V LINK**

# HV-32D25EUW / HV-32D25EJW

## STANDARD CIRCUIT DIAGRAM

### ■ NOTE ON USING CIRCUIT DIAGRAMS

#### 1.SAFETY

The components identified by the  $\triangle$  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

#### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- |  |   |
|--|---|
| (1)Input signal  | : Colour bar signal   |
| (2)Setting positions of each knob/button and variable resistor | : Original setting position when shipped  |
| (3)Internal resistance of tester                               | :DC 20k $\Omega$ /V   |
| (4)Oscilloscope sweeping time                                  | :H $\Rightarrow$ 20 $\mu$ S/div<br>:V $\Rightarrow$ 5mS/div<br>:Others $\Rightarrow$ Sweeping time is specified |
| (5)Voltage values  | :All DC voltage values  |

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

#### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board :R1209  $\rightarrow$  R209

#### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

##### (1)Resistors

- Resistance value

No unit	: [ $\Omega$ ]
K	: [K $\Omega$ ]
M	: [M $\Omega$ ]

- Rated allowable power

No indication	:1/ 16 [W]
Others	:As specified

- Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflamable resistor
FR	:Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

##### (2)Capacitors

- Capacitance value

1 or higher	: [pF]
less than 1	: [ $\mu$ F ]

- Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage [V]
AC indicated	:AC withstand voltage [V]

\* Electrolytic Capacitors

47/50[Example]:Capacitance value [ $\mu$ F]/withstand voltage[V]

- Type

No indication	:Ceramic capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

##### (3)Coils

No unit	: [ $\mu$ H ]
Others	:As specified

##### (4)Power Supply

	:B1		:B2 (12V)
	:9V		:5V

\* Respective voltage values are indicated

##### (5)Test point

	:Test point		:Only test point display
--	-------------	--	--------------------------

##### (6)Connecting method

	:Connector		:Wrapping or soldering
	:Receptacle		

##### (7)Ground symbol

	:LIVE side ground
	:ISOLATED(NEUTRAL) side ground
	:EARTH ground
	:DIGITAL ground

#### 5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (  $\perp$  ) side GND and the ISOLATED(NEUTRAL) : (  $\text{⏏}$  ) side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus ( oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

##### NOTE






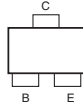
- ◇ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.  
When ordering parts, please use the numbers that appear in the Parts List.

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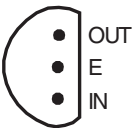
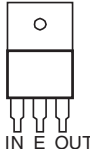
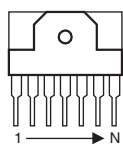
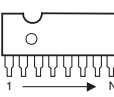
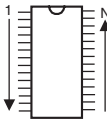
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## SEMICONDUCTOR SHAPES

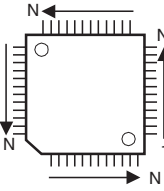
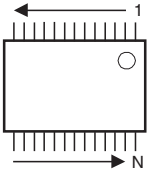
### TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					

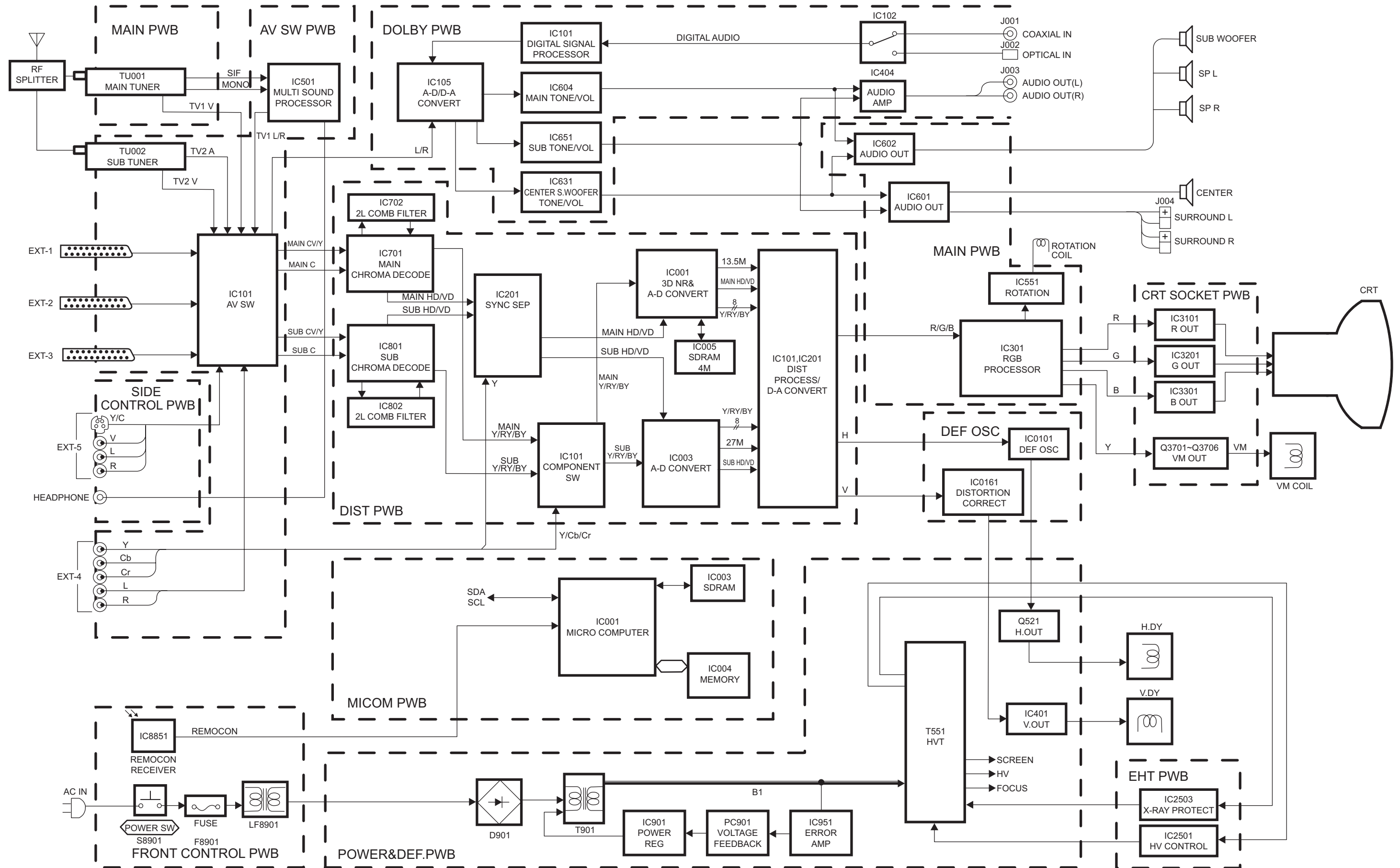
### IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

### CHIP IC

TOP VIEW		
		

# BLOCK DIAGRAM

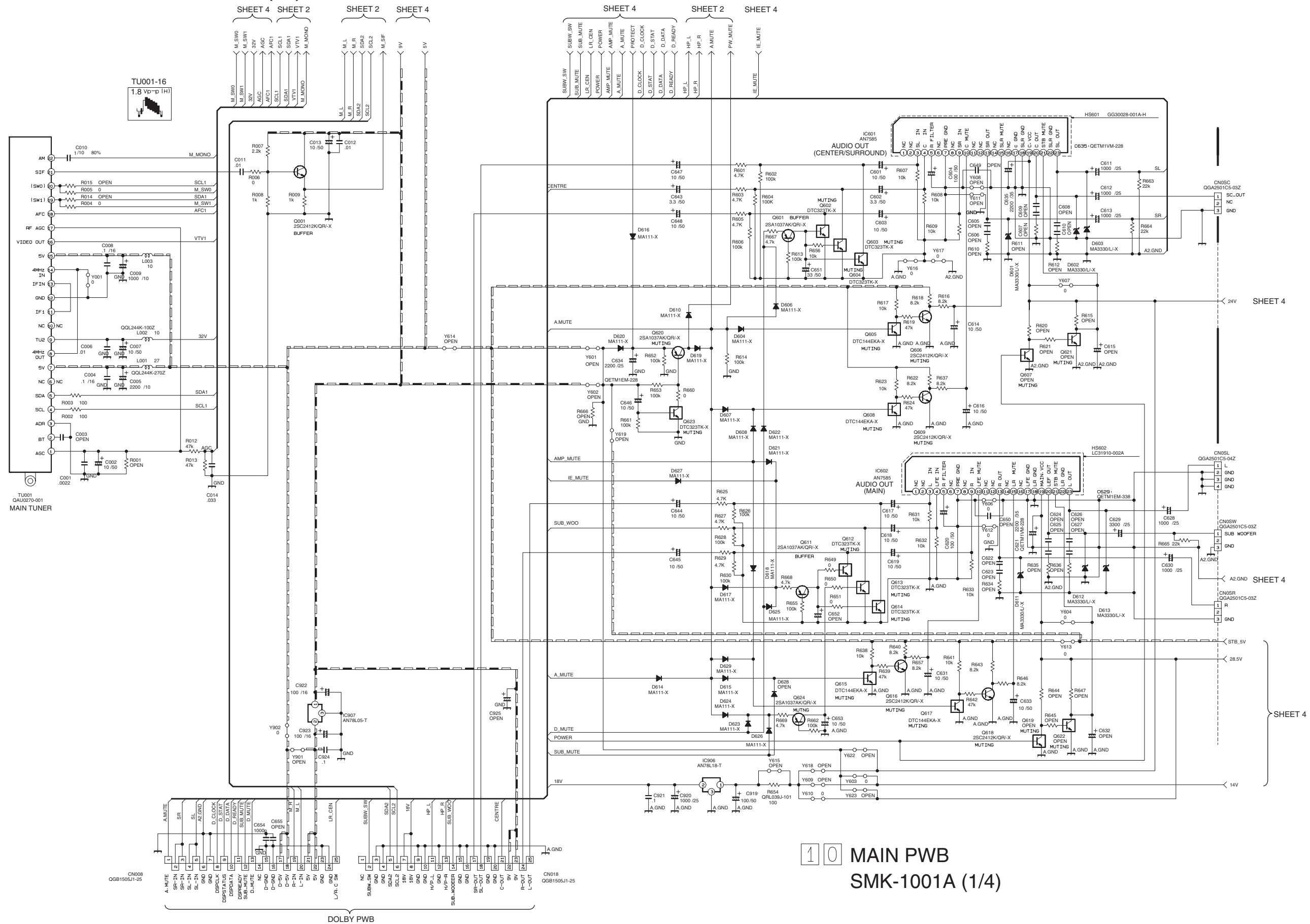




## CIRCUIT DIAGRAM

**SHEET1**

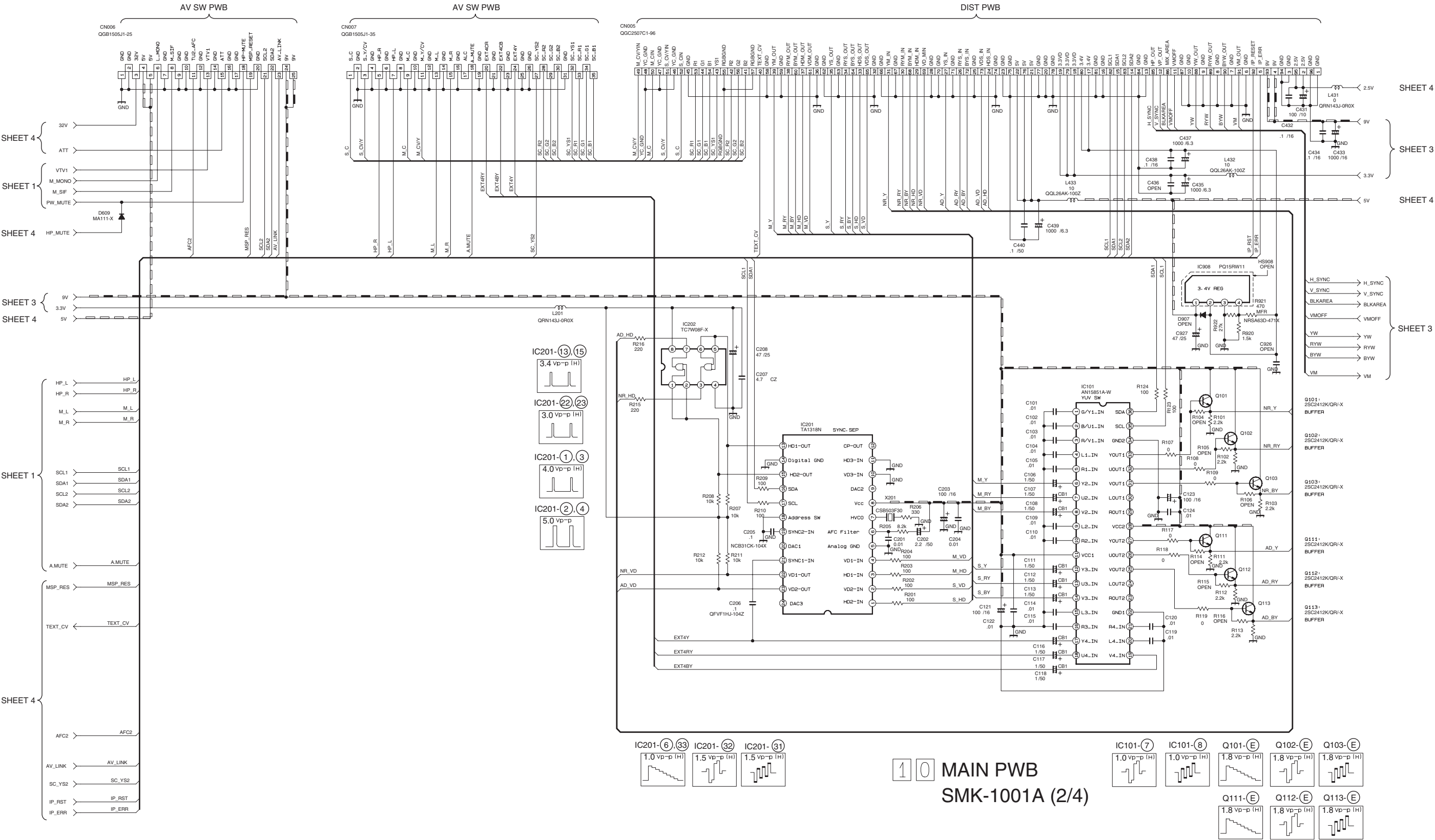
■ MAIN PWB CIRCUIT DIAGRAM (1/4) SHEET1



MAIN PWB CIRCUIT DIAGRAM (2/4)

SHEET2

SHEET2





The diagram illustrates a complex PCB layout for the MAIN PWB, divided into three sheets: SHEET 1, SHEET 1.2, and SHEET 2.3. The layout is organized into three main sections, each labeled 'POWER & DEF PWB'.

**Section 1 (Top Left):** This section includes a 12V regulator (IC901, PO12RF1) and a 9V regulator (IC902, SI-8090S). It features components like resistors R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R951, R952, R953, R954, R955, R956, R957, R958, R959, R960, R961, R962, R963, R964, R965, R966, R967, R968, R969, R970, R971, R972, R973, R974, R975, R976, R977, R978, R979, R980, R981, R982, R983, R984, R985, R986, R987, R988, R989, R990, R991, R992, R993, R994, R995, R996, R997, R998, R999, R1000, R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1013, R1014, R1015, R1016, R1017, R1018, R1019, R1020, R1021, R1022, R1023, R1024, R1025, R1026, R1027, R1028, R1029, R1030, R1031, R1032, R1033, R1034, R1035, R1036, R1037, R1038, R1039, R1040, R1041, R1042, R1043, R1044, R1045, R1046, R1047, R1048, R1049, R1050, R1051, R1052, R1053, R1054, R1055, R1056, R1057, R1058, R1059, R1060, R1061, R1062, R1063, R1064, R1065, R1066, R1067, R1068, R1069, R1070, R1071, R1072, R1073, R1074, R1075, R1076, R1077, R1078, R1079, R1080, R1081, R1082, R1083, R1084, R1085, R1086, R1087, R1088, R1089, R1090, R1091, R1092, R1093, R1094, R1095, R1096, R1097, R1098, R1099, R1100, R1101, R1102, R1103, R1104, R1105, R1106, R1107, R1108, R1109, R1110, R1111, R1112, R1113, R1114, R1115, R1116, R1117, R1118, R1119, R1120, R1121, R1122, R1123, R1124, R1125, R1126, R1127, R1128, R1129, R1130, R1131, R1132, R1133, R1134, R1135, R1136, R1137, R1138, R1139, R1140, R1141, R1142, R1143, R1144, R1145, R1146, R1147, R1148, R1149, R1150, R1151, R1152, R1153, R1154, R1155, R1156, R1157, R1158, R1159, R1160, R1161, R1162, R1163, R1164, R1165, R1166, R1167, R1168, R1169, R1170, R1171, R1172, R1173, R1174, R1175, R1176, R1177, R1178, R1179, R1180, R1181, R1182, R1183, R1184, R1185, R1186, R1187, R1188, R1189, R1190, R1191, R1192, R1193, R1194, R1195, R1196, R1197, R1198, R1199, R1200, R1201, R1202, R1203, R1204, R1205, R1206, R1207, R1208, R1209, R1210, R1211, R1212, R1213, R1214, R1215, R1216, R1217, R1218, R1219, R1220, R1221, R1222, R1223, R1224, R1225, R1226, R1227, R1228, R1229, R1230, R1231, R1232, R1233, R1234, R1235, R1236, R1237, R1238, R1239, R1240, R1241, R1242, R1243, R1244, R1245, R1246, R1247, R1248, R1249, R1250, R1251, R1252, R1253, R1254, R1255, R1256, R1257, R1258, R1259, R1260, R1261, R1262, R1263, R1264, R1265, R1266, R1267, R1268, R1269, R1270, R1271, R1272, R1273, R1274, R1275, R1276, R1277, R1278, R1279, R1280, R1281, R1282, R1283, R1284, R1285, R1286, R1287, R1288, R1289, R1290, R1291, R1292, R1293, R1294, R1295, R1296, R1297, R1298, R1299, R1300, R1301, R1302, R1303, R1304, R1305, R1306, R1307, R1308, R1309, R1310, R1311, R1312, R1313, R1314, R1315, R1316, R1317, R1318, R1319, R1320, R1321, R1322, R1323, R1324, R1325, R1326, R1327, R1328, R1329, R1330, R1331, R1332, R1333, R1334, R1335, R1336, R1337, R1338, R1339, R1340, R1341, R1342, R1343, R1344, R1345, R1346, R1347, R1348, R1349, R1350, R1351, R1352, R1353, R1354, R1355, R1356, R1357, R1358, R1359, R1360, R1361, R1362, R1363, R1364, R1365, R1366, R1367, R1368, R1369, R1370, R1371, R1372, R1373, R1374, R1375, R1376, R1377, R1378, R1379, R1380, R1381, R1382, R1383, R1384, R1385, R1386, R1387, R1388, R1389, R1390, R1391, R1392, R1393, R1394, R1395, R1396, R1397, R1398, R1399, R1400, R1401, R1402, R1403, R1404, R1405, R1406, R1407, R1408, R1409, R1410, R1411, R1412, R1413, R1414, R1415, R1416, R1417, R1418, R1419, R1420, R1421, R1422, R1423, R1424, R1425, R1426, R1427, R1428, R1429, R1430, R1431, R1432, R1433, R1434, R1435, R1436, R1437, R1438, R1439, R1440, R1441, R1442, R1443, R1444, R1445, R1446, R1447, R1448, R1449, R1450, R1451, R1452, R1453, R1454, R1455, R1456, R1457, R1458, R1459, R1460, R1461, R1462, R1463, R1464, R1465, R1466, R1467, R1468, R1469, R1470, R1471, R1472, R1473, R1474, R1475, R1476, R1477, R1478, R1479, R1480, R1481, R1482, R1483, R1484, R1485, R1486, R1487, R1488, R1489, R1490, R1491, R1492, R1493, R1494, R1495, R1496, R1497, R1498, R1499, R1500, R1501, R1502, R1503, R1504, R1505, R1506, R1507, R1508, R1509, R1510, R1511, R1512, R1513, R1514, R1515, R1516, R1517, R1518, R1519, R1520, R1521, R1522, R1523, R1524, R1525, R1526, R1527, R1528, R1529, R1530, R1531, R1532, R1533, R1534, R1535, R1536, R1537, R1538, R1539, R1540, R1541, R1542, R1543, R1544, R1545, R1546

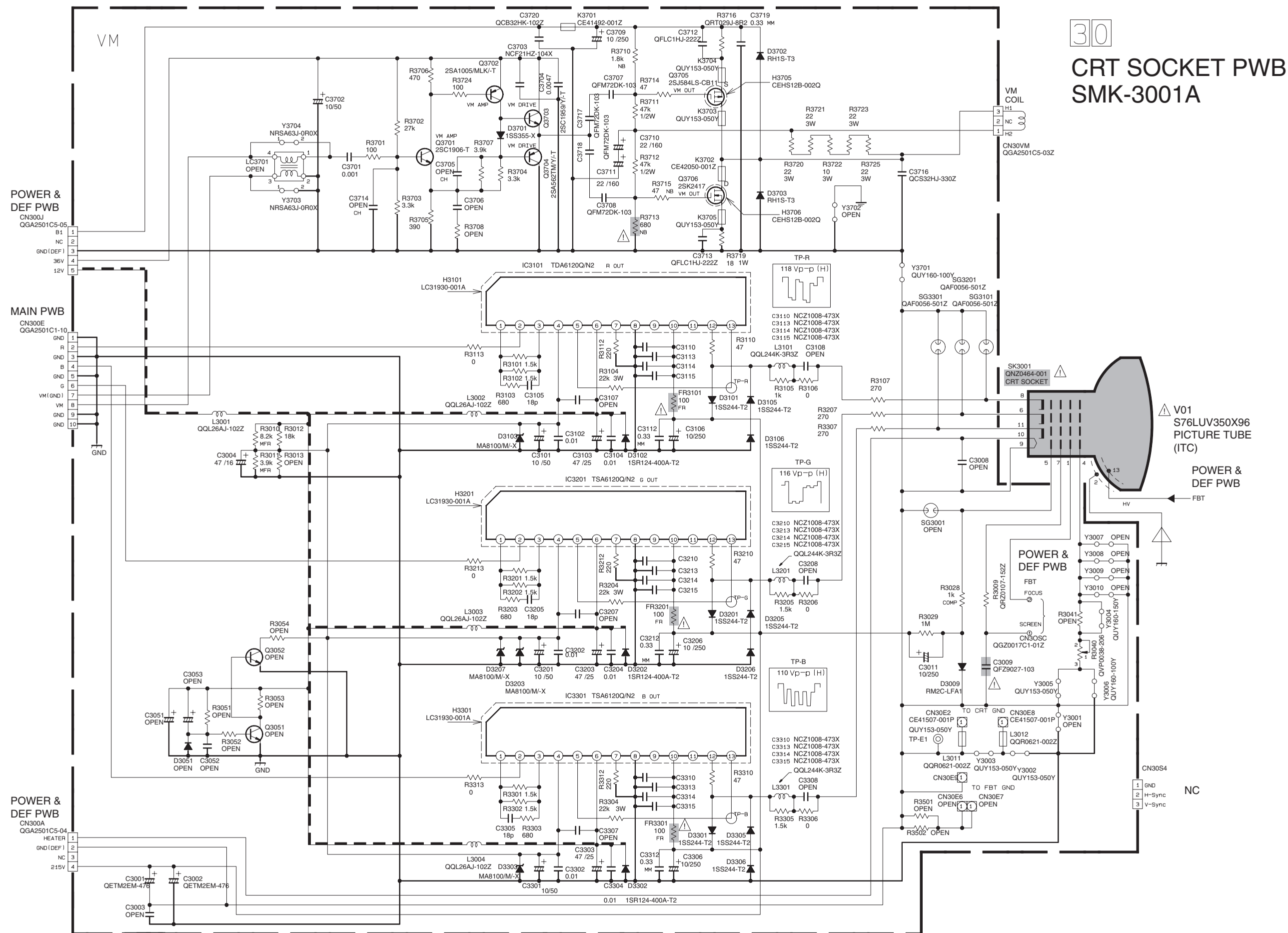
QGA2501C5-04Z  
ROTATION  
COIL N/S COIL

SHEET 1

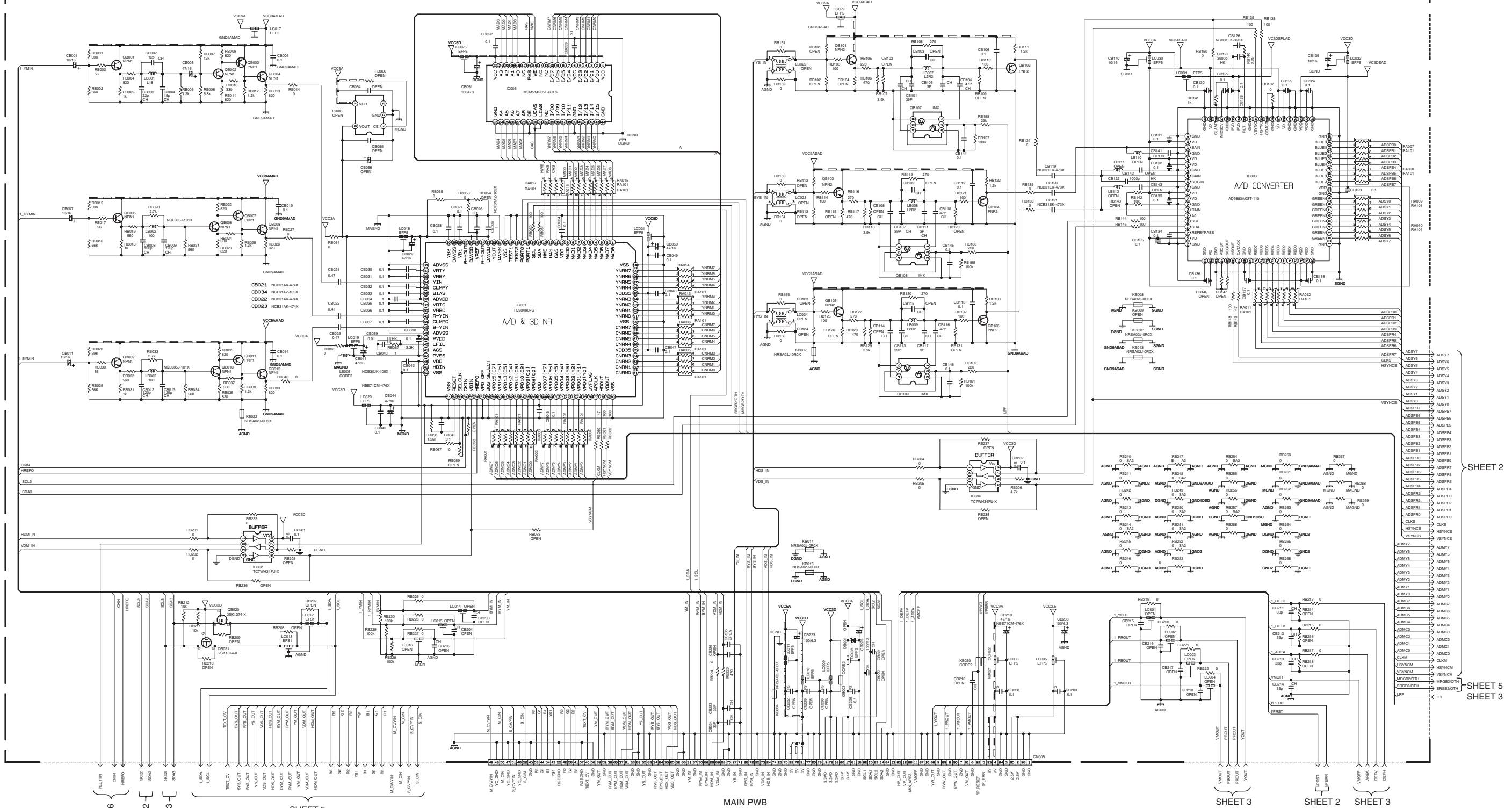
FRONT SIDE  
CONTROL PWB CONTROL PWB

SMK-0S001A  
AV SW PWB





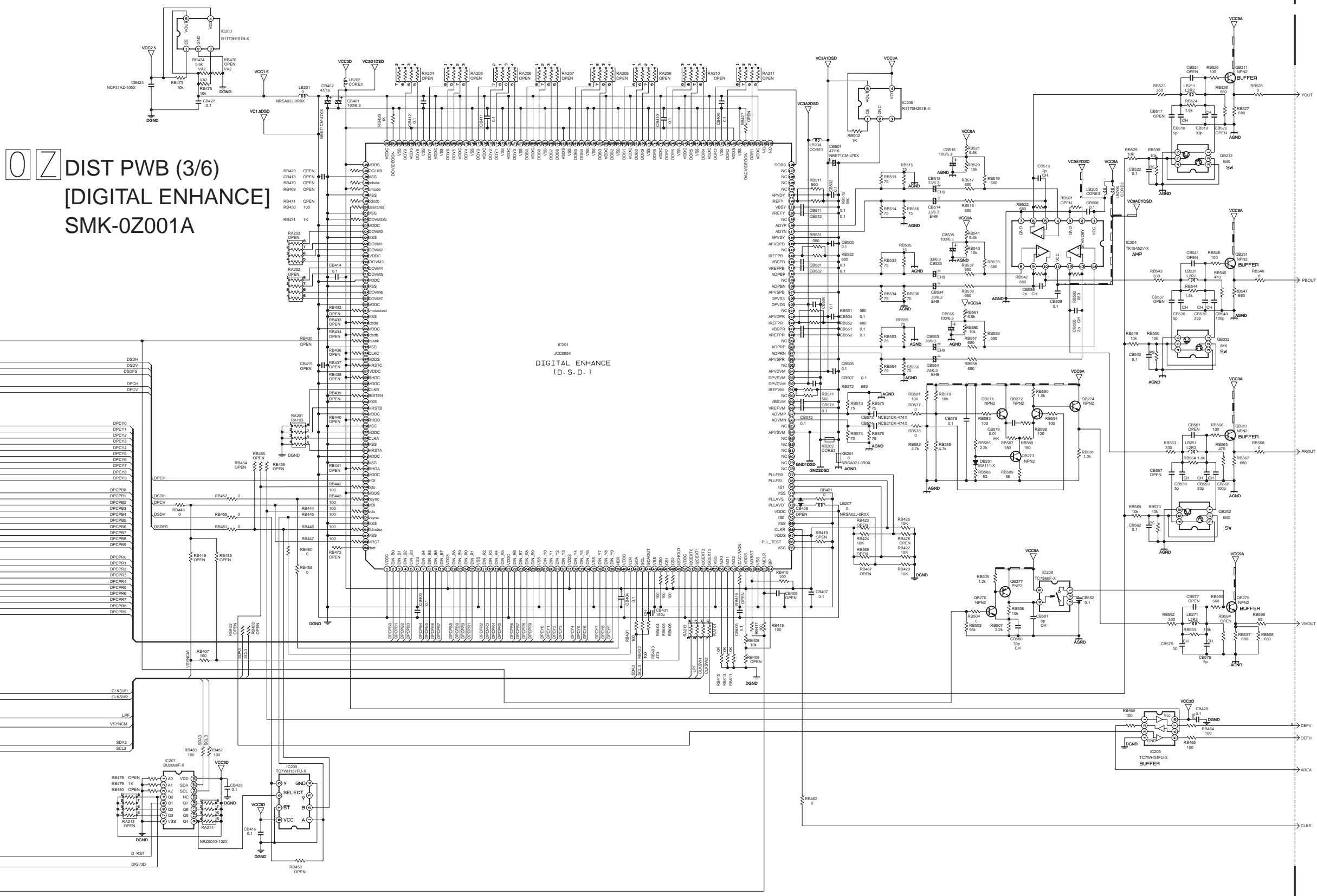
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[A-D CONVERTER]



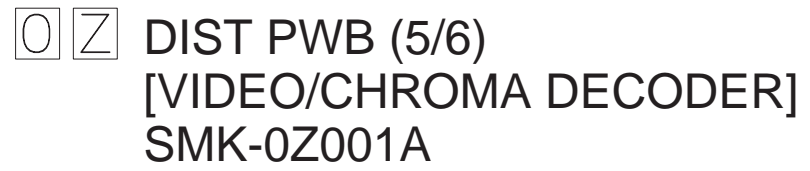
0Z DIST PWB (2/6)  
[I-P CONVERTER]  
SMK-0Z001A





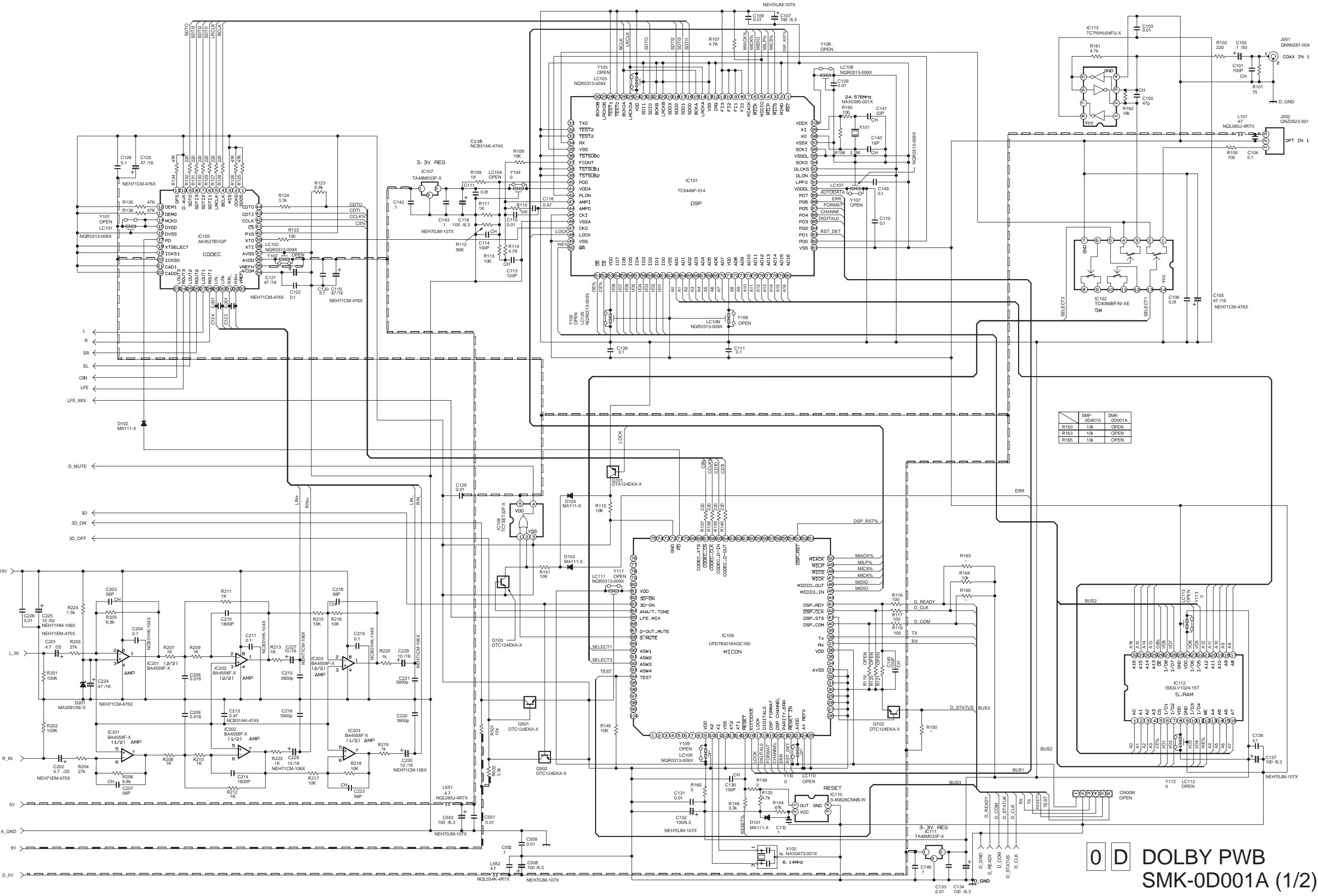






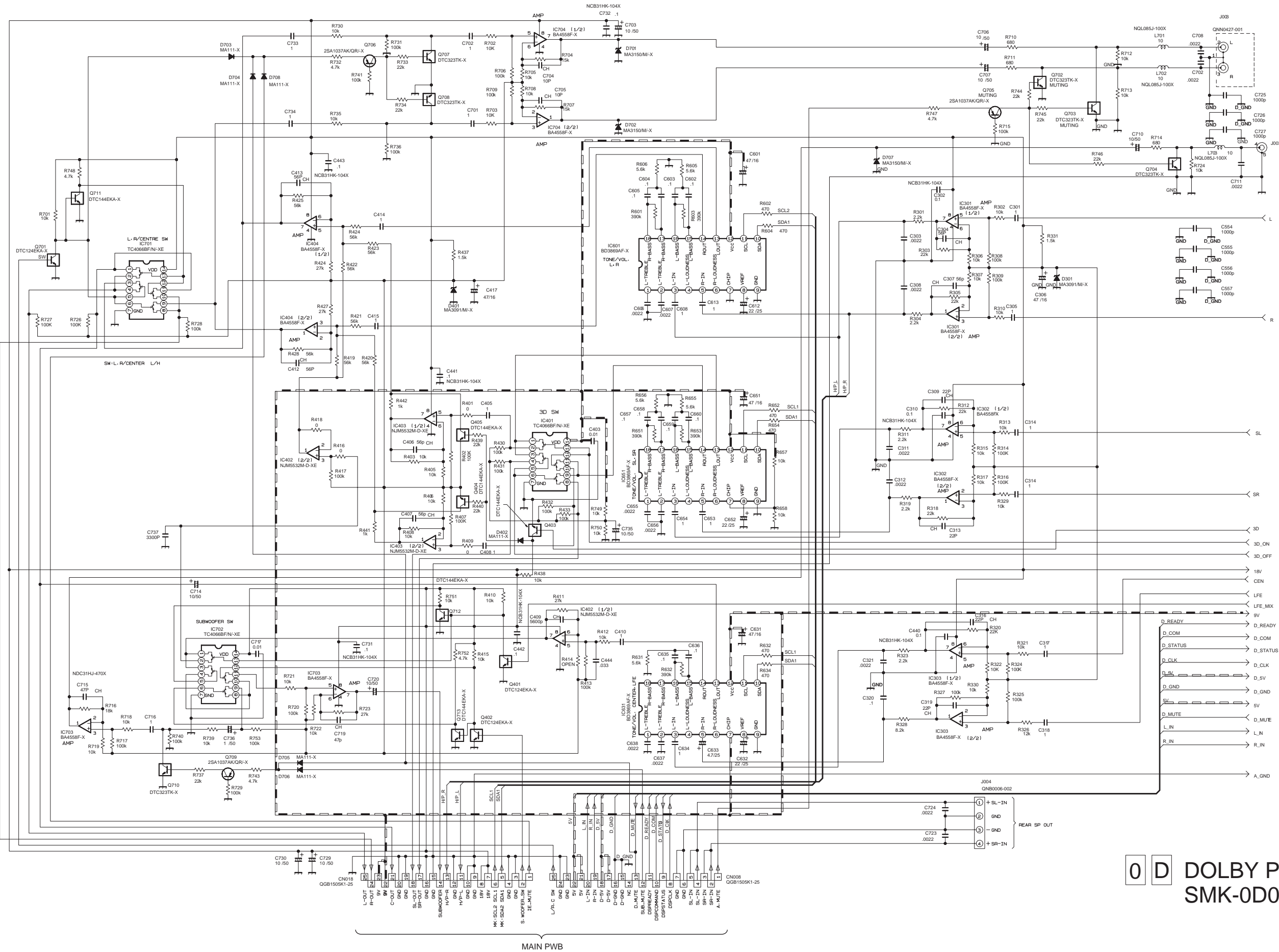


■ DOLBY PWB CIRCUIT DIAGRAM (1/2)





■ DOLBY PWB CIRCUIT DIAGRAM (2/2)



0 D DOLBY PWB  
SMK-0D001A (2/2)

```
*1: 2SC2412K/QR/-X
*2: 2SA1037AK/QR/-X
*3: MA111-X
BW: IM-BW
O: NRSA63J-0R0X
```







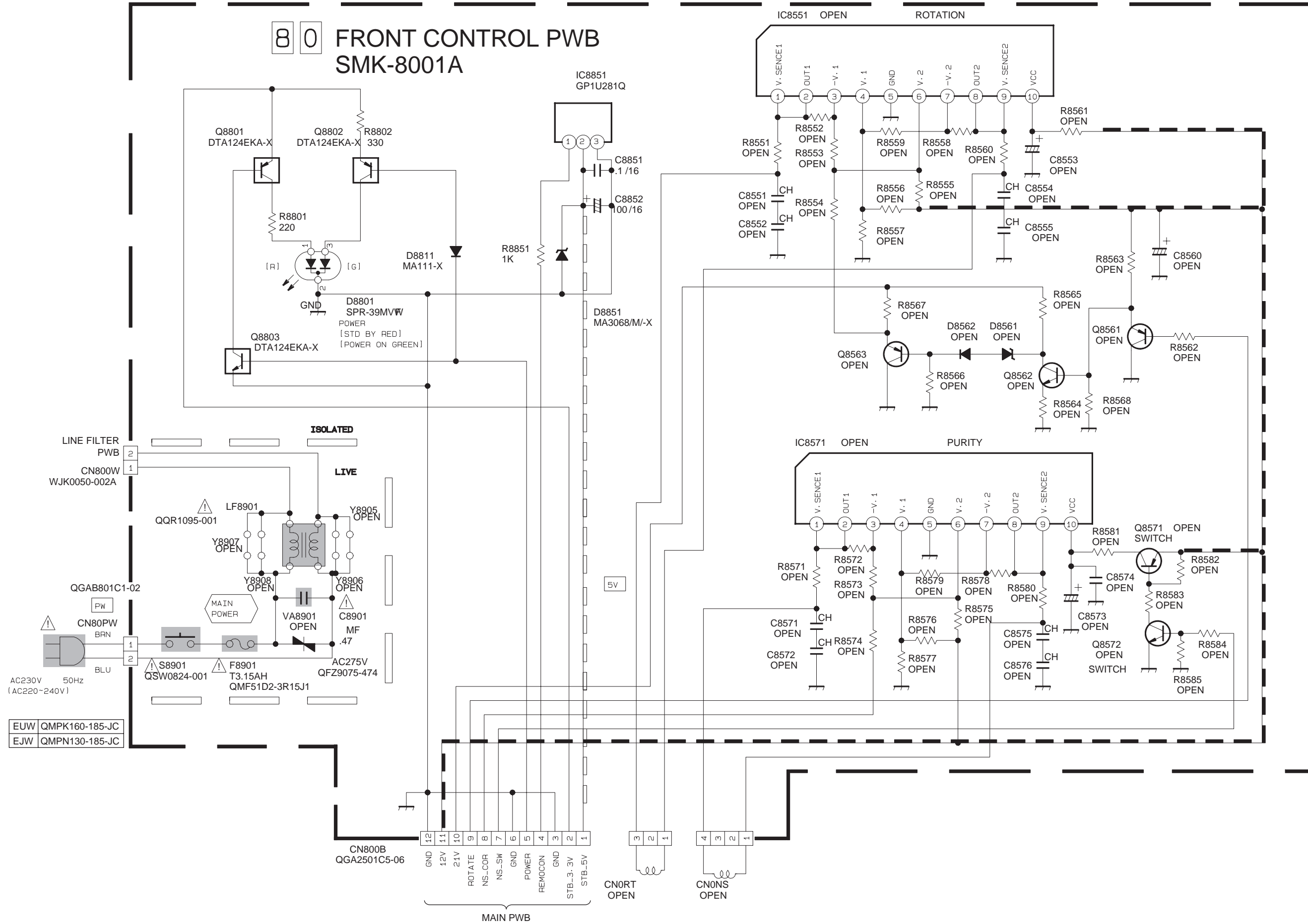
*1:	2SC2412/QR/-X
*2:	2SA1037AK/QR/-X
*3:	MA111-X
*4:	DTC124EKA-X
BW:	IB-BW
OPEN:	-

POWER &amp; DEF. PWB

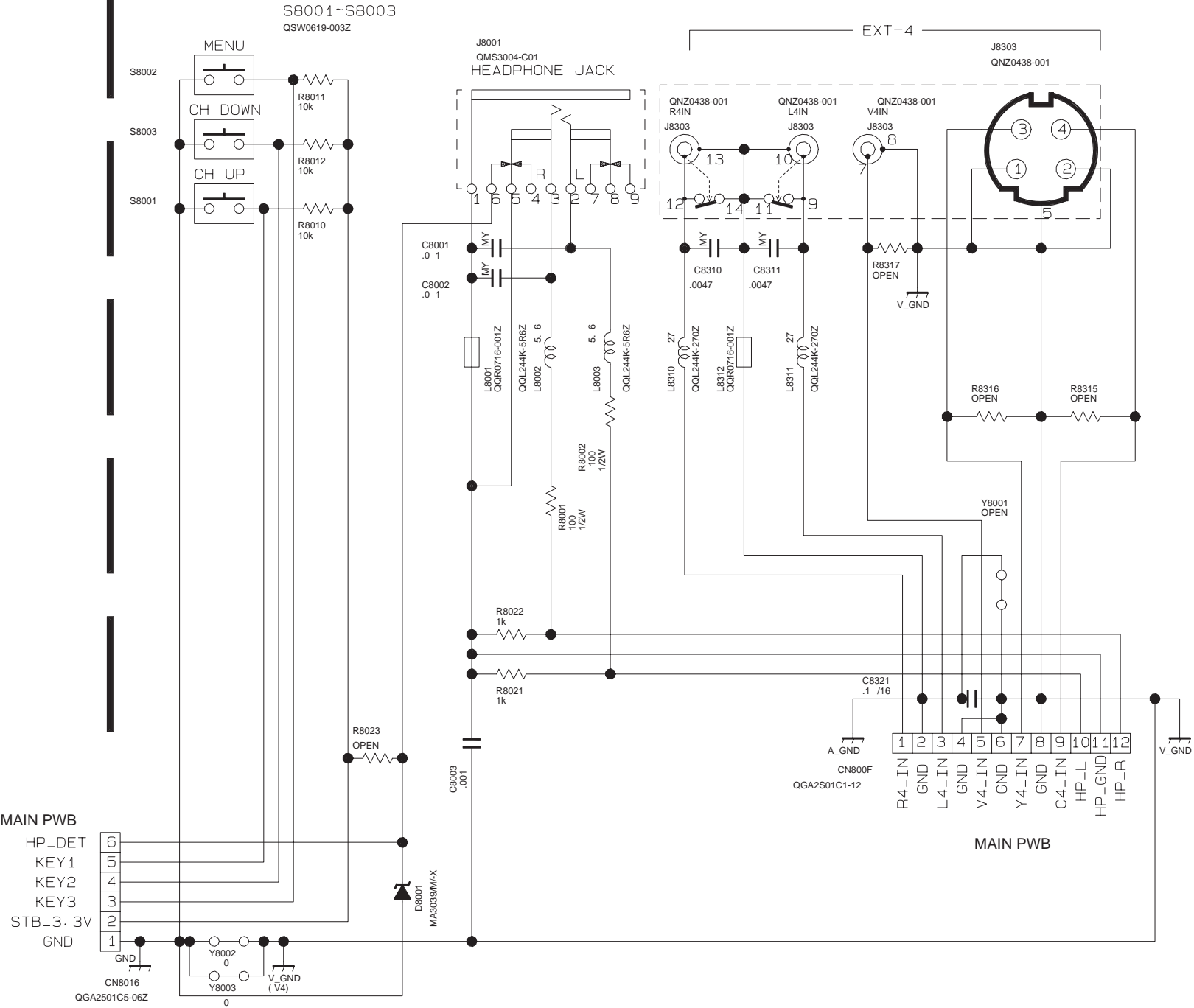
0 E SMK-0E001A EHT PWB



FRONT CONTROL PWB CIRCUIT DIAGRAM



■ SIDE CONTROL PWB CIRCUIT DIAGRAM



- \*1: 2SC2412K/QR/-X
- \*2: 2SA1037AK/QR/-X
- \*3: MA111-X
- \*4: DTC124EKA-X
- \*5: DTA124EKA-X
- 0: NRSA63J-0R0X
- BW: IM-BW

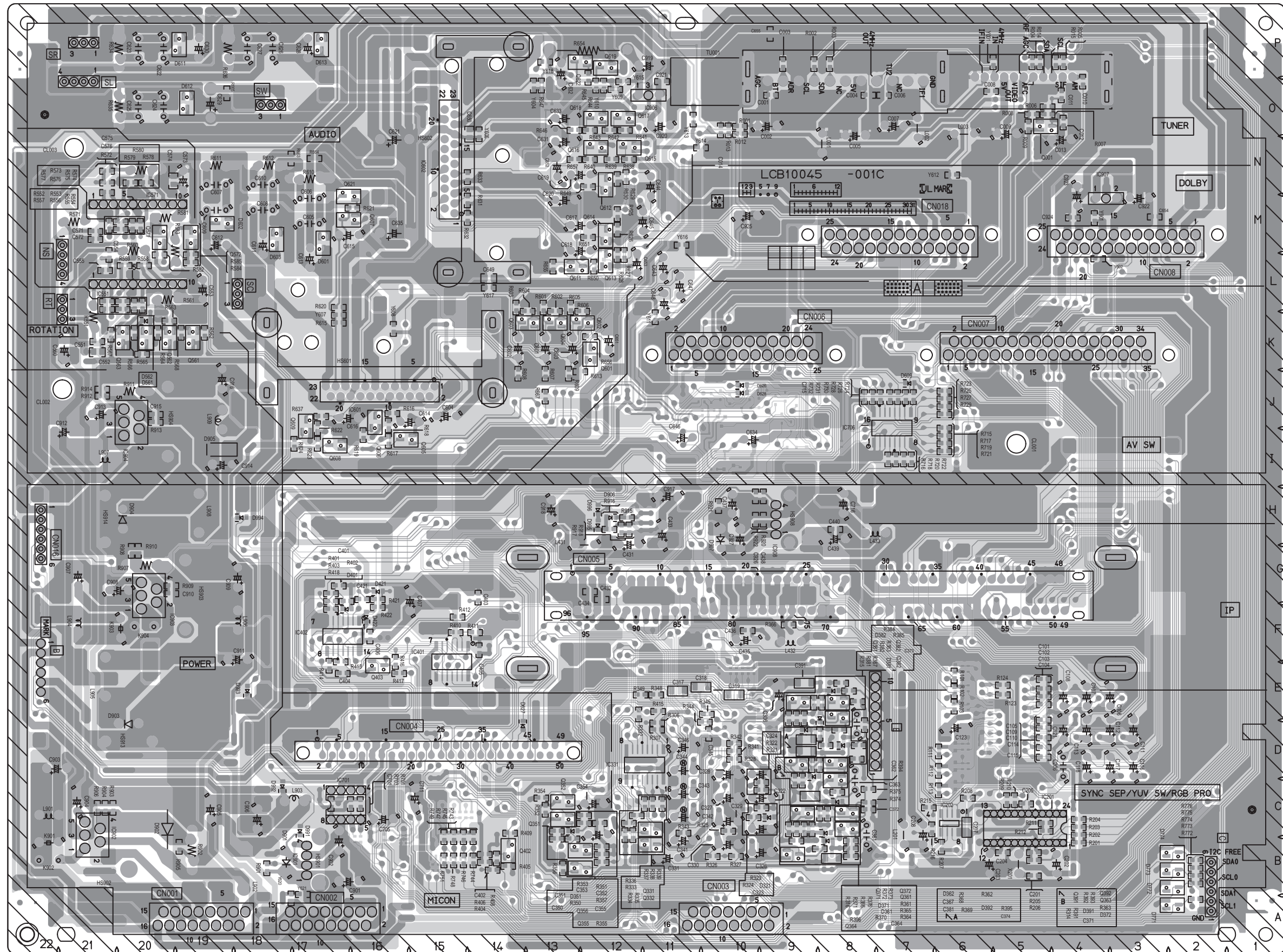
8 1 SIDE CONTROL PWB  
SMK-8101A



## PATTERN DIAGRAMS

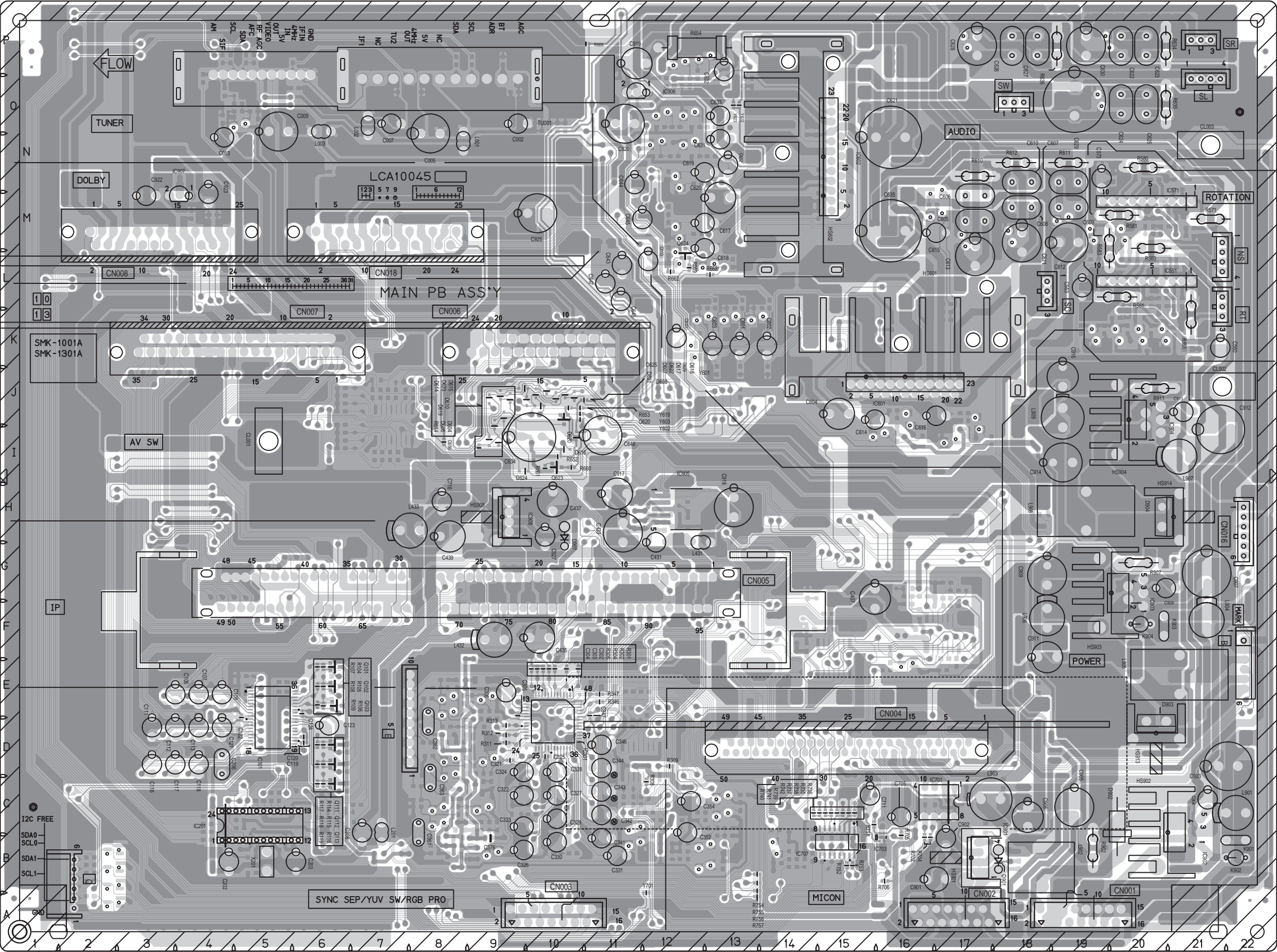
## ■ MAIN PWB PATTERN [SOLDER SIDE]

**FRONT**





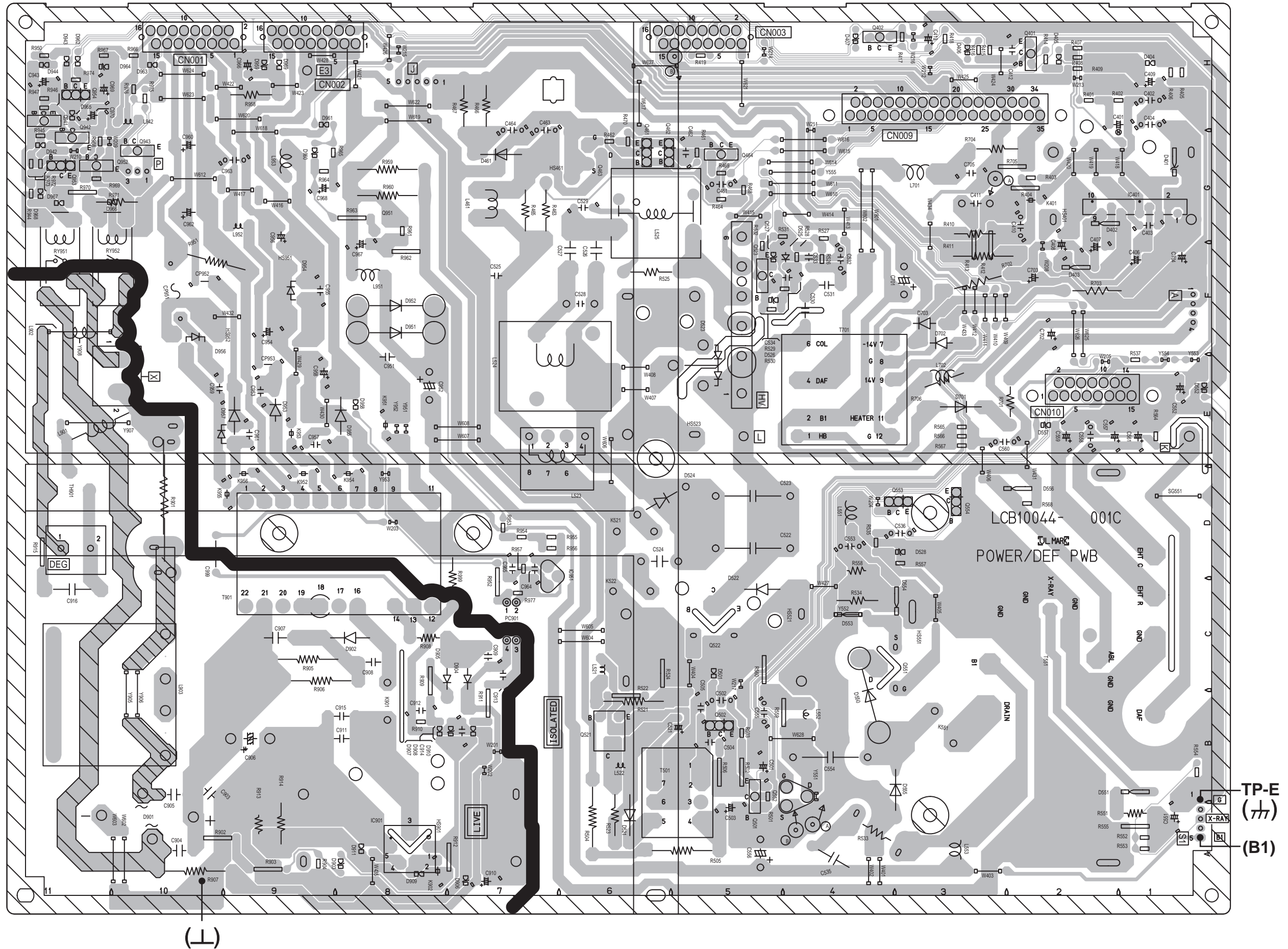
■ MAIN PWB PATTERN [PARTS SIDE]



FRONT  
➔

POWER&DEF PWB PATTERN

FRONT  
→





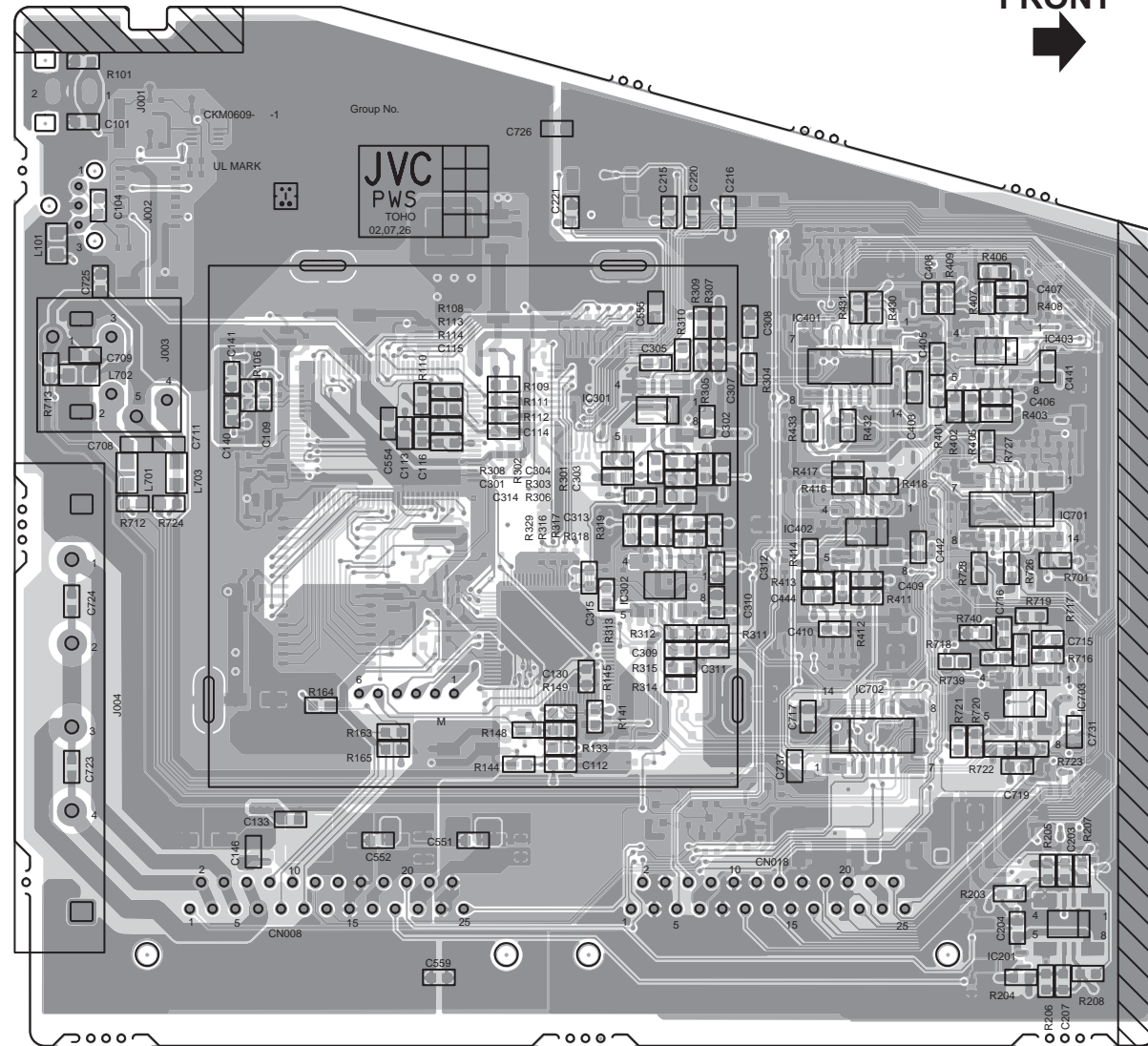




**■ DOLBY PWB PATTERN [SOLDER SIDE]**

**TOP**  

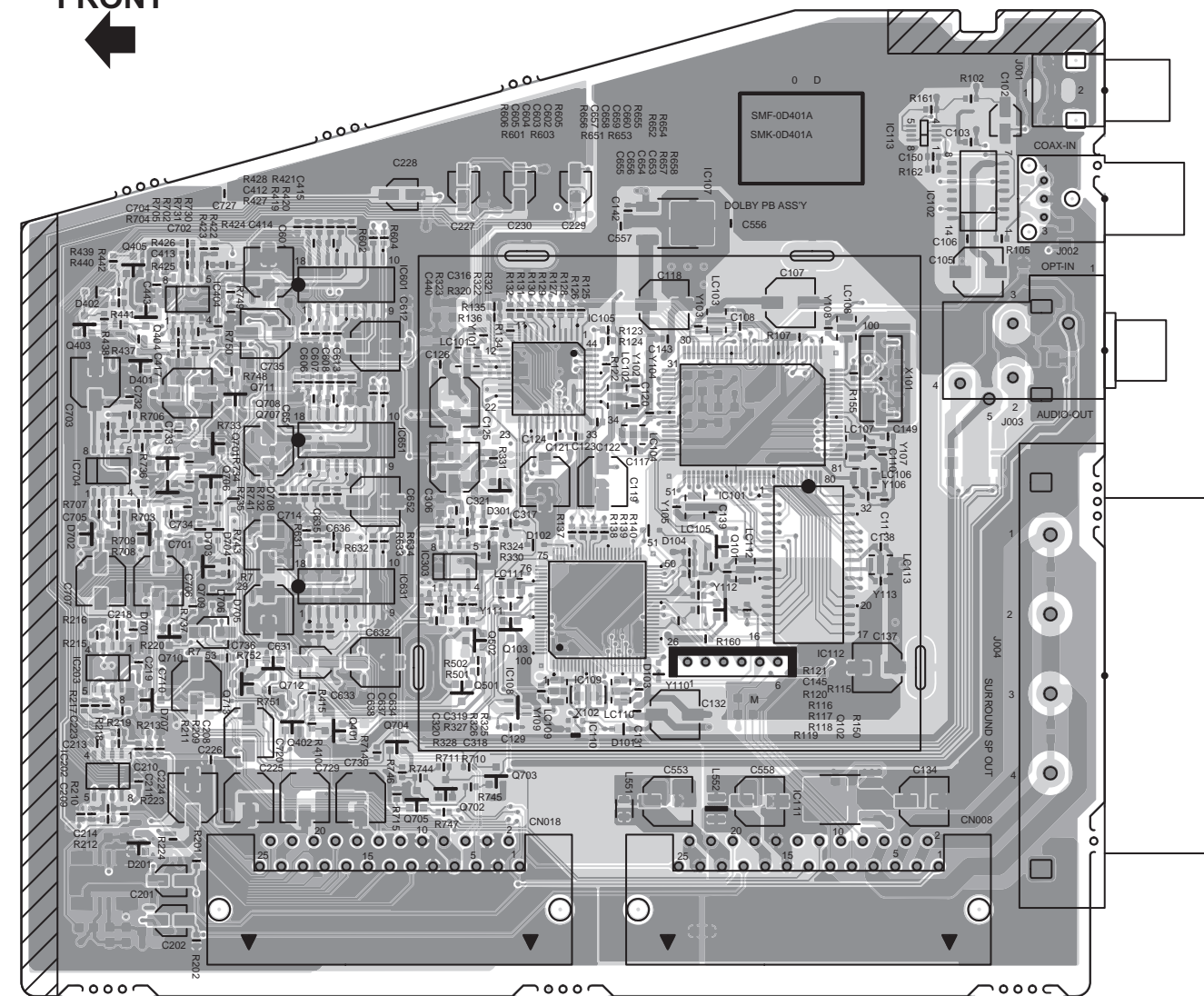

**FRONT**



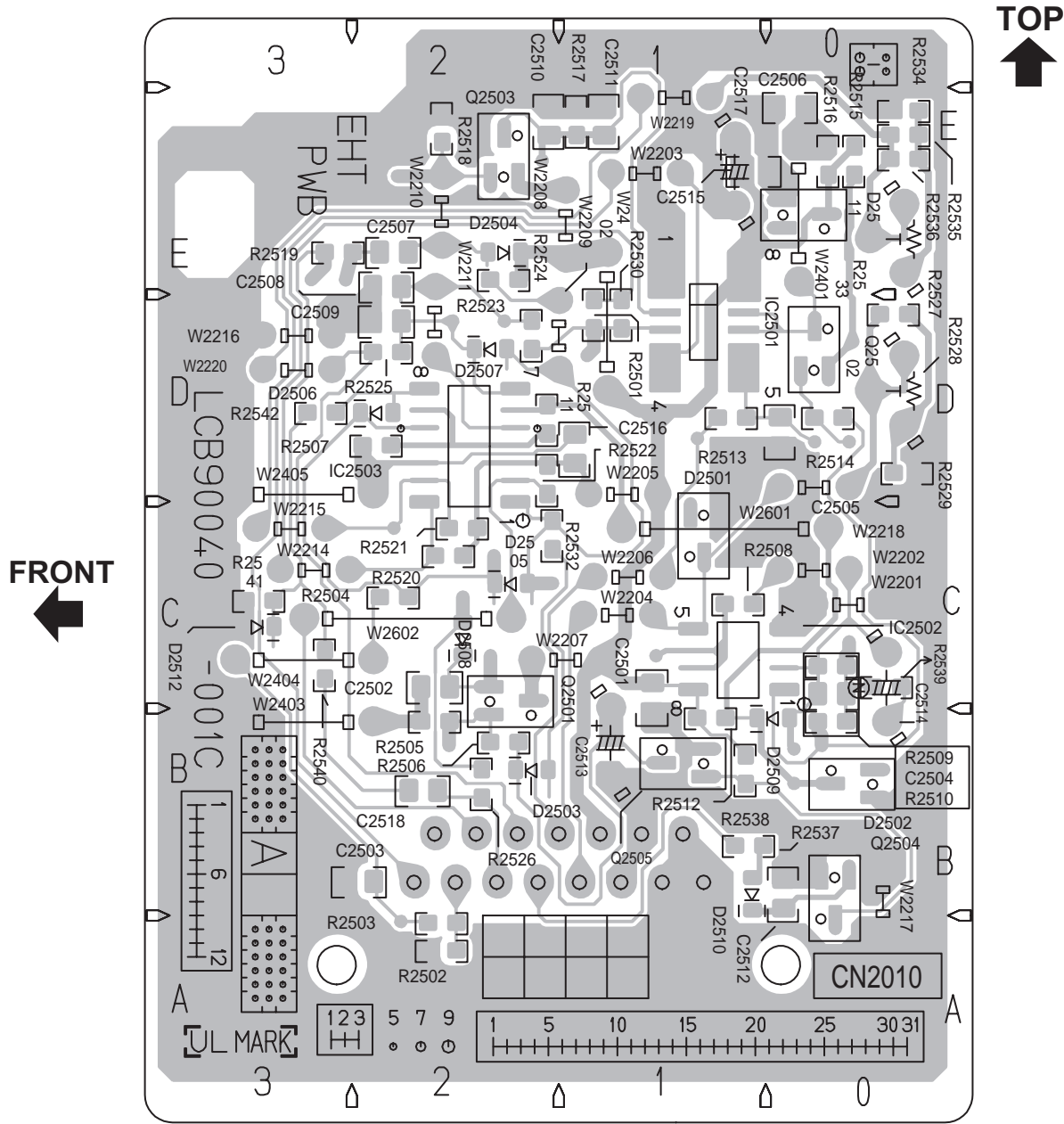
■ DOLBY PWB PATTERN [PARTS SIDE]

**TOP**  

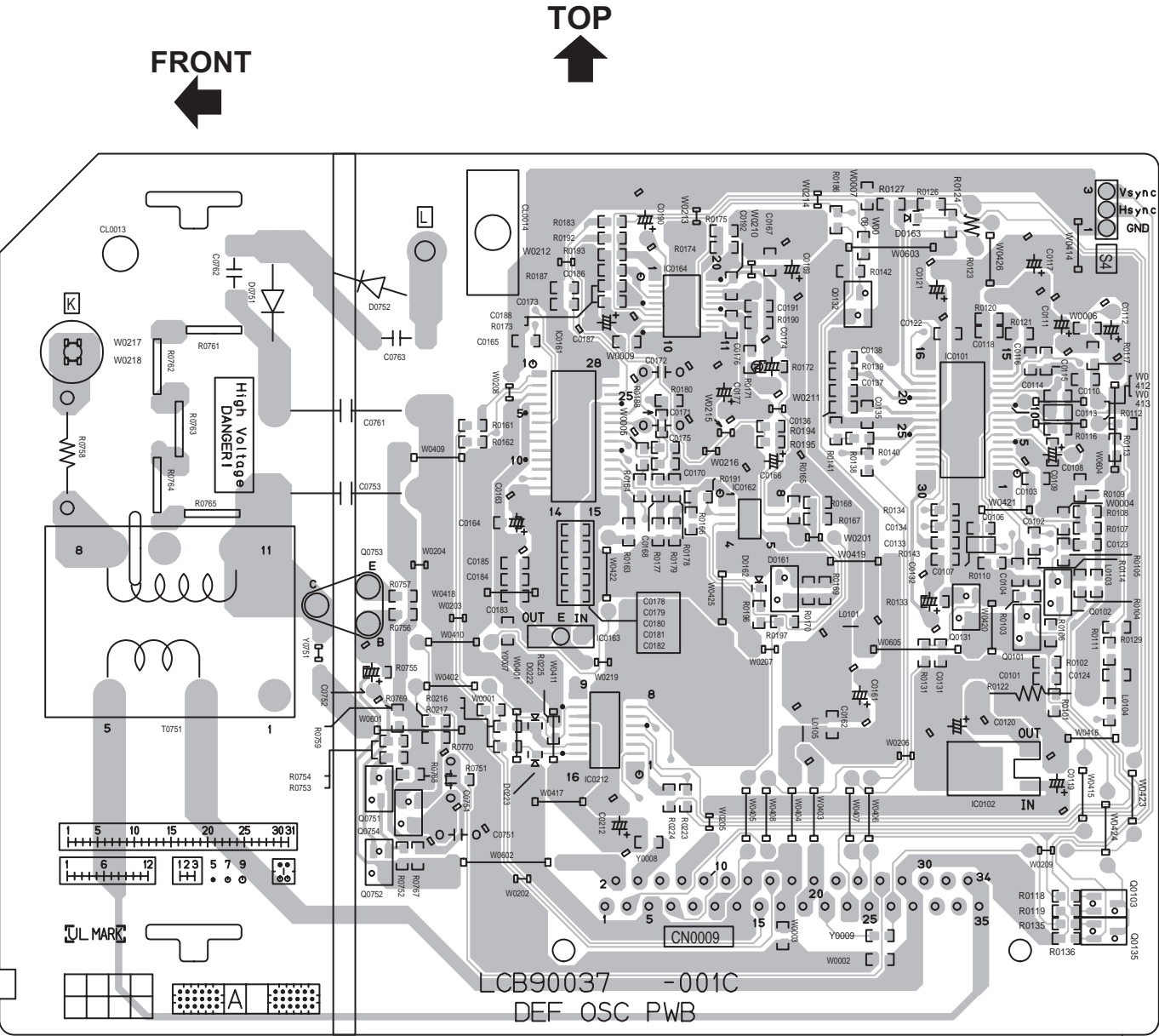

**FRONT**



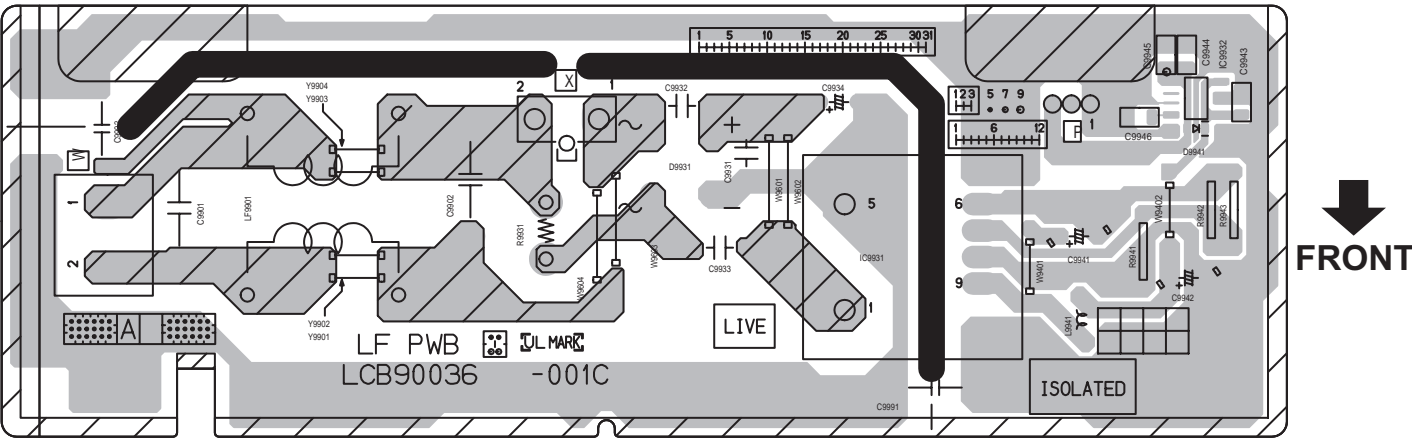
■ EHT PWB PATTERN



■ DEF OSC PWB PATTERN



■ LINE FILTER PWB PATTERN

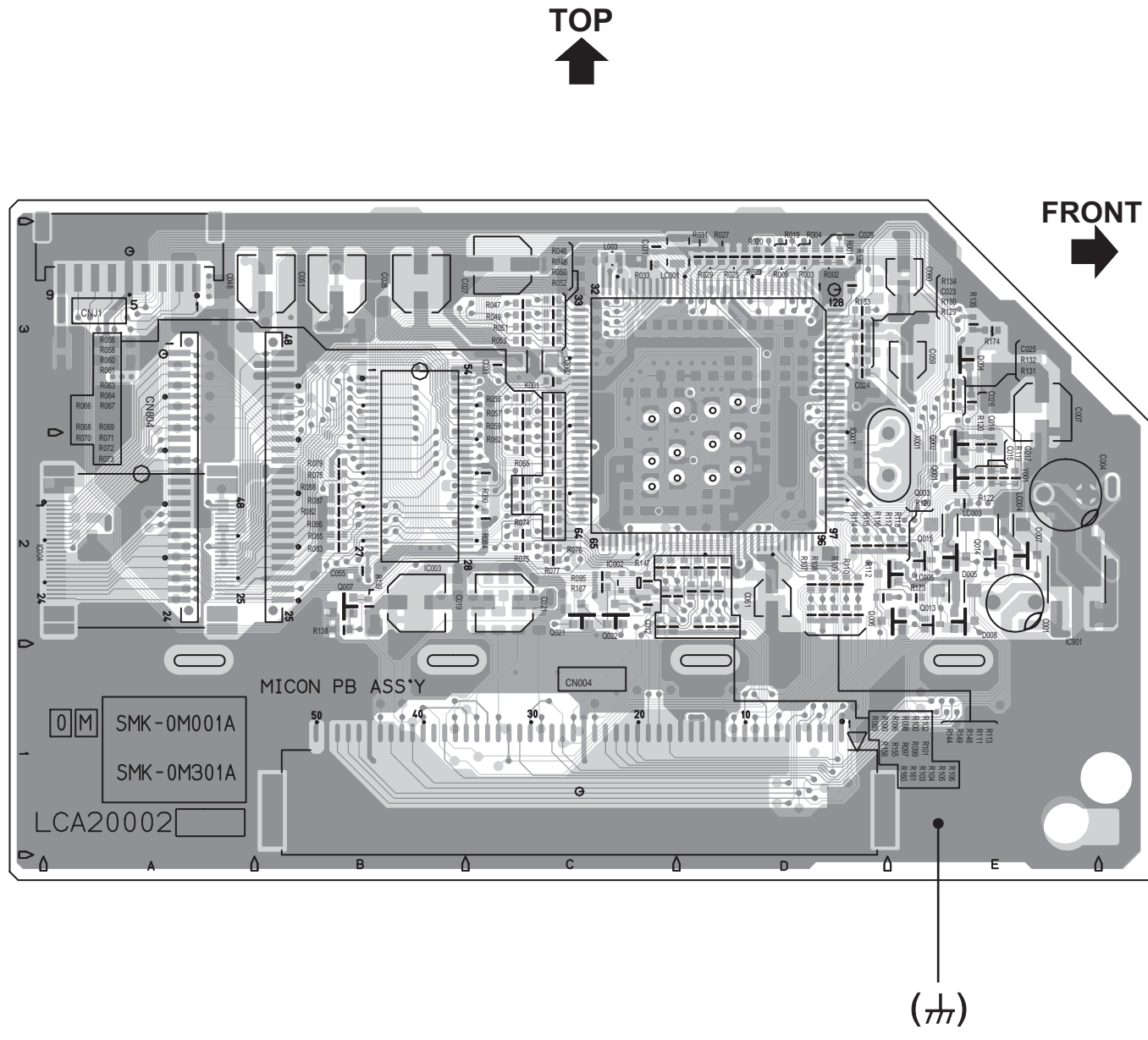
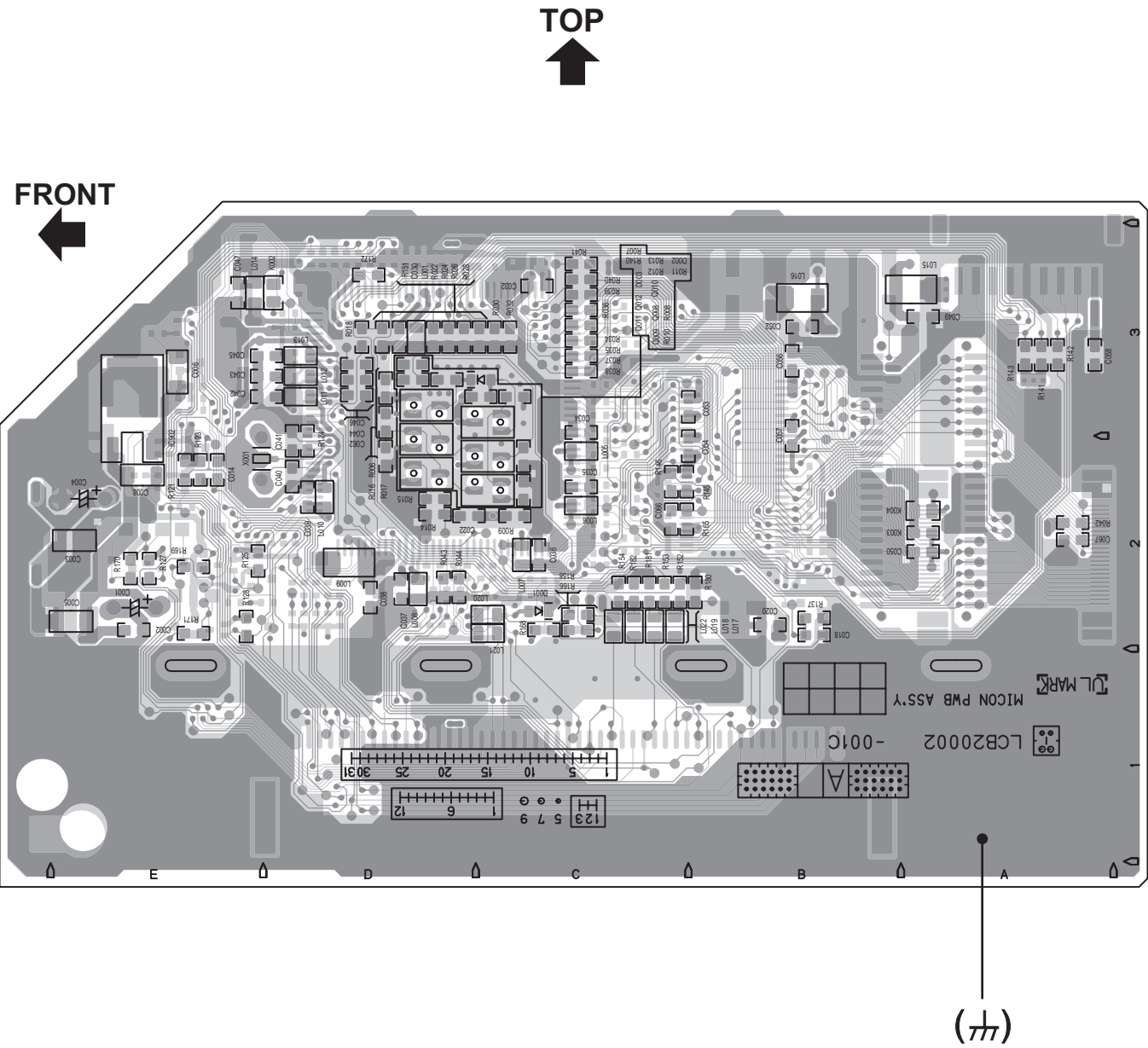


HV-32D25EUW  
HV-32D25EJW

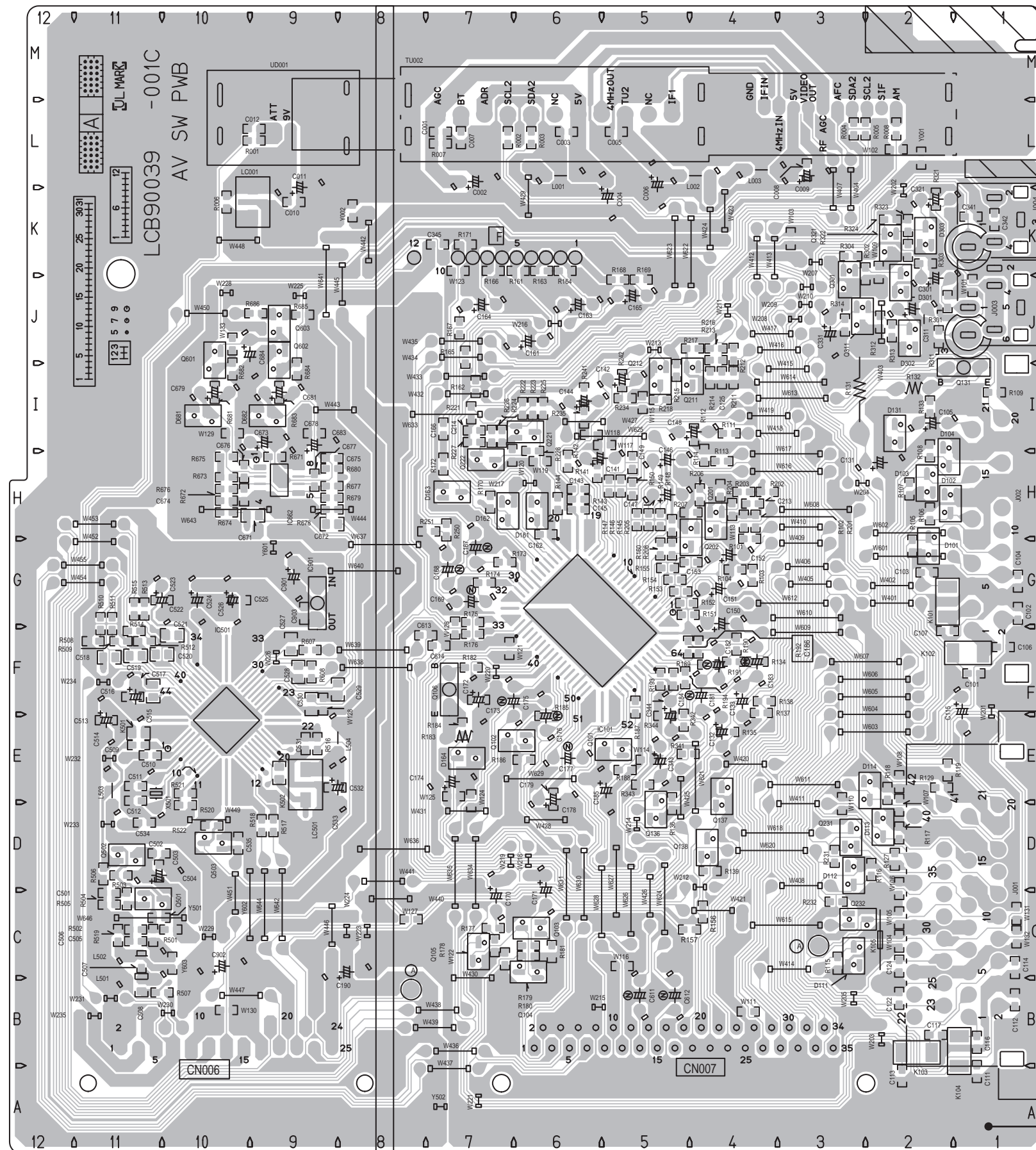
HV-32D25EUW  
HV-32D25EJW

■ MICOM PWB PATTERN [SOLDER SIDE]

■ MICOM PWB PATTERN [PARTS SIDE]

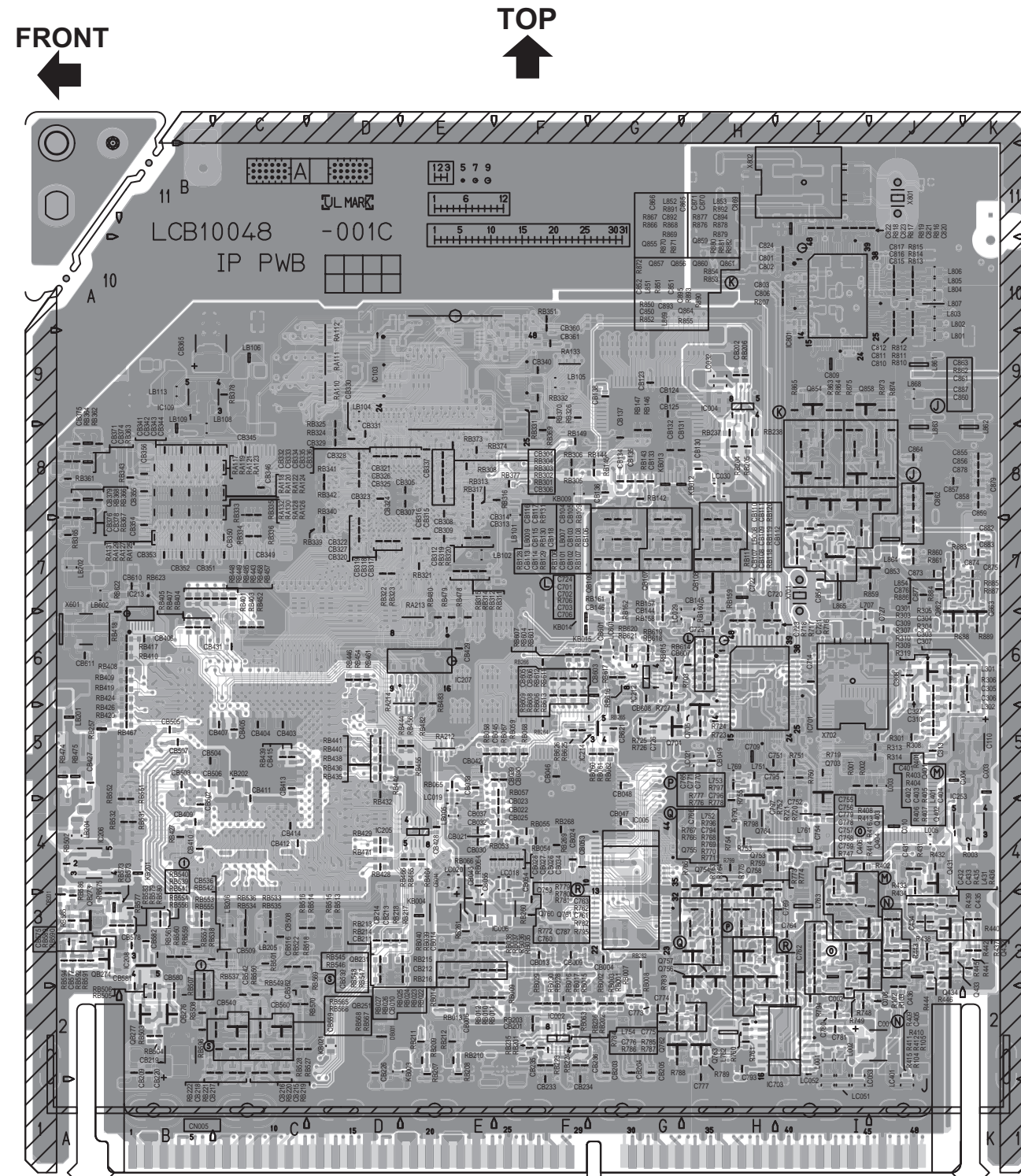




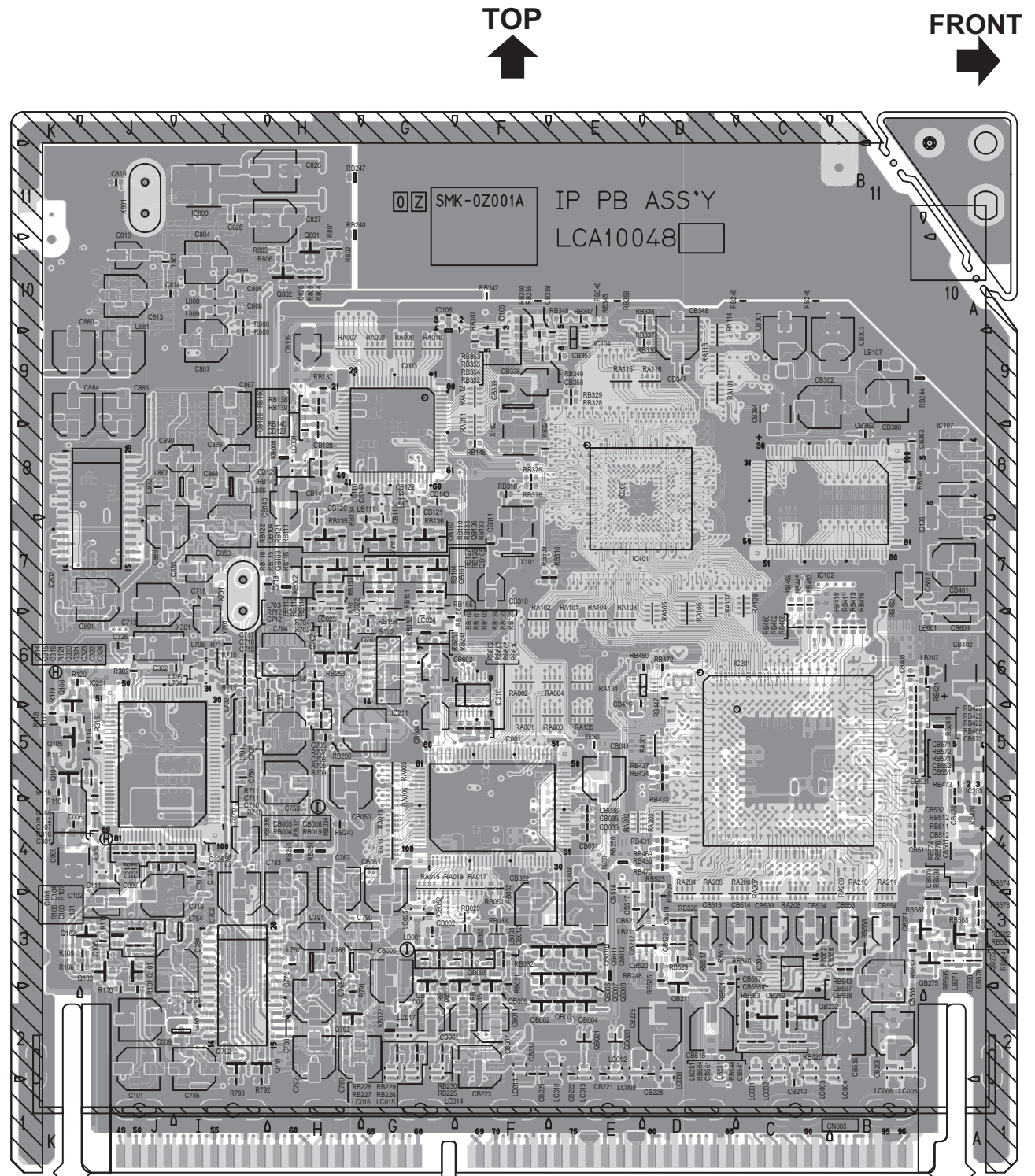




## ■ DIST PWB PATTERN [SOLDER SIDE]



### ■ DIST PWB PATTERN [PARTS SIDE]



## VOLTAGE CHARTS

&lt;MAIN&gt;

PIN NO.	VOLTAGE (V)
IC101	
1	4.5
2	4.5
3	4.5
4	4.7
5	4.7
6	4.6
7	4.6
8	4.6
9	4.8
10	4.7
11	9.2
12	4.6
13	4.6
14	4.6
15	4.7
16	4.7
17	4.6
18	4.6
19	4.6
20	4.7
21	4.7
22	0
23	4.8
24	4.8
25	4.5
26	4.5
27	4.5
28	9.2
29	4.8
30	4.8
31	4.4
32	0
33	4.5
34	0
35	4.6
36	4.6
IC201	
1	0.3
2	0.1
3	0.4
4	0.1
5	0
6	6.5
7	5.2
8	9.2
9	1.3
10	0
11	0
12	0
13	1.3
14	0
15	0
16	4.6
17	4.5
18	0
19	2.2
20	5.2
21	2.1
22	0.2
23	0.2
24	0.6
IC202	
1	3.2
2	3.2
3	3.2
4	0
5	3.2
6	3.2
7	3.2
8	3.6
IC331	
1	0
2	0
3	0
4	0
5	0
6	2.6
7	2.6
8	0
9	0
10	0
11	0
12	0
13	5.2
14	4.8
15	4.8
16	5.2
IC401	
1	3.3
2	0
3	3.3
4	3.3
5	0
6	3.3
7	0
8	3.3
9	0
10	3.4
11	0
12	3.5

PIN NO.	VOLTAGE (V)
13	3.5
14	3.6
IC402	
1	3.8
2	0
3	3.0
4	3.4
5	3.4
6	3.4
7	0
8	3.4
9	3.4
10	0
11	3.3
12	3.3
13	3.3
14	3.4
IC551	
1	9.0
2	9.0
3	6.8
4	6.8
5	0
6	2.6
7	3.5
8	1.3
9	1.3
10	1.0
IC571	
1	0
2	0
3	0
4	6.8
5	0
6	5.5
7	5.5
8	5.6
9	4.6
10	12.6
IC601	
1	0
2	0
3	0
4	0
5	32.0
6	0
7	0
8	0
9	0
10	4.6
11	0
12	0
13	1.3
14	0
15	0
16	4.6
17	4.5
18	0
19	2.2
20	5.2
21	2.1
22	0.2
23	0.2
24	0.6
IC202	
1	3.2
2	3.2
3	3.2
4	0
5	3.2
6	3.2
7	3.2
8	3.6
IC331	
1	0
2	0
3	0
4	0
5	0
6	2.6
7	2.6
8	0
9	0
10	0
11	0
12	0
13	5.2
14	4.8
15	4.8
16	5.2
IC401	
1	3.3
2	0
3	3.3
4	3.3
5	0
6	3.3
7	0
8	3.3
9	0
10	3.4
11	0
12	3.5

PIN NO.	VOLTAGE (V)
5	0
6	0
7	0
8	0
9	0
10	3.2
11	0
12	5.0
13	0
14	4.6
15	4.8
16	5.3
IC901	
1	15.0
2	13.0
3	0
4	15.0
IC904	
1	20.4
2	20.0
3	0
4	3.4
5	2.6
IC906	
1	20.0
2	15.6
3	0
IC907	
1	9.5
2	5.0
3	0
IC908	
1	5.0
2	2.8
3	0
4	2.4
Q001	
E	2.0
C	9.2
B	2.8
Q101	
E	3.9
C	0
B	4.5
Q102	
E	3.9
C	9.2
B	4.5
Q103	
E	3.8
C	9.2
B	4.4
Q111	
E	3.9
C	9.2
B	4.5
Q112	
E	3.8
C	9.2
B	4.5
Q113	
E	3.9
C	0
B	4.5
Q351	
E	0
C	0
B	0
Q352	
E	8.4
C	8.6
B	8.6
Q355	
E	0
C	0
B	0
Q371	
E	3.0
C	9.8
B	4.0
Q372	
E	3.0
C	9.8
B	4.0
Q381	
E	2.8
C	8.8
B	0
Q402	
E	0
C	3.2
B	0.8
Q561	
E	3.4
C	0
B	2.8
Q562	
E	2.6
C	11.0
B	3.3
Q563	

PIN NO.	VOLTAGE (V)
E	4.0
C	0
B	3.6
Q571	
E	10.4
C	0.8
B	12.0
Q572	
E	0
C	0
B	0
Q601	
E	0
C	0
B	0
Q602	
E	0
C	0
B	0
Q603	
E	0
C	0
B	0
Q604	
E	0
C	0
B	0
Q605	
E	0
C	4.4
B	0
Q606	
E	0
C	0
B	0.8
Q608	
E	0
C	0
B	0
Q609	
E	0
C	4.8
B	0
Q611	
E	2.6
C	2.6
B	2.0
Q612	
E	0
C	0
B	0
Q613	
E	0
C	0
B	1.4
Q614	
E	0
C	1.4
Q615	
E	0
C	0
B	0
Q616	
E	0
C	4.8
B	0
Q617	
E	0
C	0
B	0
Q618	
E	0
C	4.8
B	0
Q624	
E	0
C	0
B	0
TU001	
1(AGC)	2.0
2(BT)	5.3
3(ADR)	0.0
4(SCL)	4.4
5(SDA)	4.5
6(NC)	0.0
7(SV)	5.1
8(4MHz OUT)	0.0
9(TU2)	34.2
10(NC)	0.0
11(IF1)	0.0
12(GND)	0.0
13(FIN)	0.0
14(4MHz IN)	0.0
15(SV)	5.1
16(VIDEO OUT)	1.8
17(RF AGC)	2.0
18(AFC)	1.5
19(SW1)	0.0
20(SW0)	0.0
21(SIF)	0.0

PIN NO.	VOLTAGE (V)
22(AM)	2.6
CN004	
1	0.0
2	0.0
3	2.9
4	2.6
5	2.7
6	0.0
7	2.6
8	0.0
9	2.6
10	0.0
11	2.6
12	0.0
13	0.0
14	5.0
15	5.0
16	0.0
17	0.0
18	2.8
19	3.0
20	4.4
21	4.4
22	0.0
23	4.4
24	0.0
25	0.0
26	3.0
27	0.0
28	2.6
29	0.0
30	1.2
31	0.0
32	1.2
33	0.0
34	0.0
35	0.0
36	2.6
37	0.0
38	2.0
39	0.0
40	2.7
41	3.3
42	-
43	4.2
44	2.0
45	0.0
46	0.0
47	1.0
48	0.0
49	0.0
50	0.0
CN005	
1	0.0
2	2.8
3	0.0
4	10.2
5	3.3
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	1.0
12	0.0
13	0.0
14	4.4
15	4.4
16	0.0
17	3.6
18	3.4
19	3.5
20	0.0
21	5.1
22	5.1
23	0.0
24	0.0
25	0.0
26	4.0
27	4.2
28	0.0
29	0.0
30	4.0
31	4.0
32	0.5
33	0.0
34	2.0
35	1.5
36	0.6
37	0.0
38	1.9
39	1.9
40	2.0
41	0.0
42	0.0
43	0.0
44	0.0
45	0.0
46	0.0
47	0.0
48	0.0

PIN NO.	VOLTAGE (V)
49	3.7
50	4.4
51	3.6
52	4.6
53	0.0
54	0.0
55	0.0
56	0.0
57	0.0
58	0.0
59	0.0
60	1.9
61	0.0
62	0.0
63	0.0
64	1.9
65	0.0
66	0.0
67	0.0
68	4.0
69	0.0
70	0.0
71	0.0
72	4.0
73	0.0
74	0.0
75	0.0
76	5.1
77	0.0
78	0.0
79	3.5
80	3.5
81	0.0
82	4.4
83	4.4
84	0.0
85	0.0
86	1.0
87	0.0
88	2.8
89	2.6
90	2.5
91	5.0
92	4.0
93	9.4
94	0.0
95	2.7
96	0.0

&lt;AW SW&gt;

PIN NO.	VOLTAGE (V)
IC101	
1	4.0
2	2.0
3	4.0
4	1.9
5	3.1
6	4.2
7	0.0
8	4.0
9	1.9
10	0.0
11	1.9
12	0.0
13	4.3
14	0.0
15	4.0
16	1.9
17	4.0
18	1.9
19	0.0
20	4.2
21	0.0
22	4.2
23	1.9
24	4.0
25	1.9
26	3.0
27	0.0
28	0.0
29	0.0
30	4.0
31	1.9
32	0.0
33	4.2
34	4.2
35	0.0
36	0.0
37	4.6
38	4.6
39	4.0
40	4.6
41	6.0
42	9.4
43	4.6
44	3.8
45	4.6
46	4.0
47	4.5
48	0.0

PIN NO.	VOLTAGE (V)
49	4.8
50	3.8
51	3.0
52	4.6
53	4.6
54	4.6
55	3.8
56	4.3
57	0.0
58	4.4
59	2.0
60	4.0
61	0.0
62	1.9
63	4.6
64	1.9
IC501	
1	5.1
2	1.2
3	1.0
4	0.0
5	0.5
6	2.0
7	0.0
8	0.0
9	0.0
10	2.2
11	5.0
12	4.4
13	4.2
14	0.0
15	0.0
16	0.0
17	0.0
18	0.0
19	5.0
20	0.0
21	0.0
22	4.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	4.0
31	4.0
32	0.0
33	8.0
34	2.2
35	0.0
36	1.0
37	1.8
38	2.0
39	0.0
40	



[illegible]

HV-32D25EUW  
HV-32D25EJW



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