



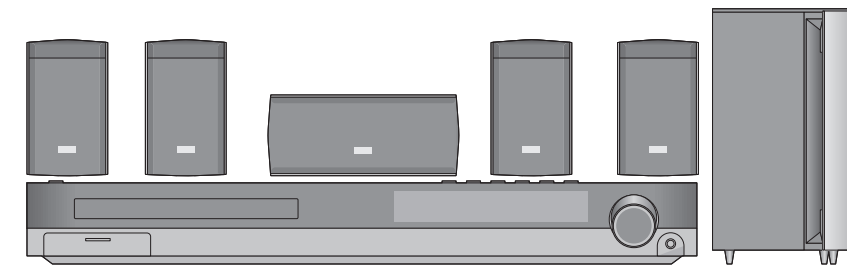
SERVICE MANUAL

MODEL : LH-T7652SB/LHS-76SBC/LHS-76SBS/LHS-76SBW



DVD/CD RECEIVER

SERVICE MANUAL



MODEL : LH-T7652SB/LHS-76SBC/
LHS-76SBS/LHS-76SBW

LG Electronics Inc.

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SECTION 1. GENERAL

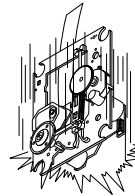
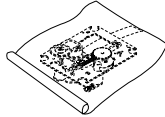
SERVICING PRECAUTIONS

NOTES REGARDING HANDLING OF THE PICK-UP

1. Notes for transport and storage

- 1) The pick-up should always be left in its conductive bag until immediately prior to use.
- 2) The pick-up should never be subjected to external pressure or impact.

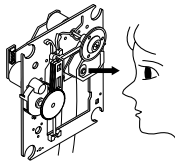
Storage in conductive bag



Drop impact

2. Repair notes

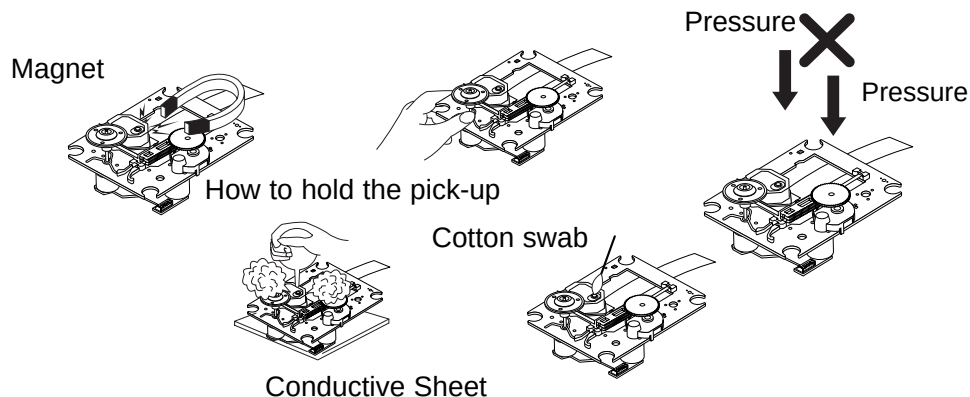
- 1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
- 2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational malfunction and/or damage to the printed-circuit board.
- 3) Each and every pick-up is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation screws should absolutely never be touched.
- 4) Laser beams may damage the eyes!
Absolutely never permit laser beams to enter the eyes!
Also NEVER switch ON the power to the laser output part (lens, etc.) of the pick-up if it is damaged.



NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

5) Cleaning the lens surface

If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.



6) Never attempt to disassemble the pick-up.

Spring by excess pressure. If the lens is extremely dirty, apply isopropyl alcohol to the cotton swab. (Do not use any other liquid cleaners, because they will damage the lens.) Take care not to use too much of this alcohol on the swab, and do not allow the alcohol to get inside the pick-up.

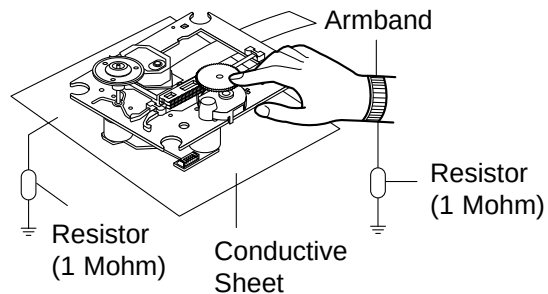
NOTES REGARDING COMPACT DISC PLAYER REPAIRS

1. Preparations

- 1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static electricity is high voltage, components can be damaged, and for that reason components should be handled with care.
- 2) The pick-up is composed of many optical components and other high-precision components. Care must be taken, therefore, to avoid repair or storage where the temperature or humidity is high, where strong magnetism is present, or where there is excessive dust.

2. Notes for repair

- 1) Before replacing a component part, first disconnect the power supply lead wire from the unit.
- 2) All equipment, measuring instruments and tools must be grounded.
- 3) The workbench should be covered with a conductive sheet and grounded.
When removing the laser pick-up from its conductive bag, do not place the pick-up on the bag. (This is because there is the possibility of damage by static electricity.)
- 4) To prevent AC leakage, the metal part of the soldering iron should be grounded.
- 5) Workers should be grounded by an armband (1M Ω).
- 6) Care should be taken not to permit the laser pick-up to come in contact with clothing, in order to prevent static electricity changes in the clothing to escape from the armband.
- 7) The laser beam from the pick-up should NEVER be directly facing the eyes or bare skin.



ESD PRECAUTIONS

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

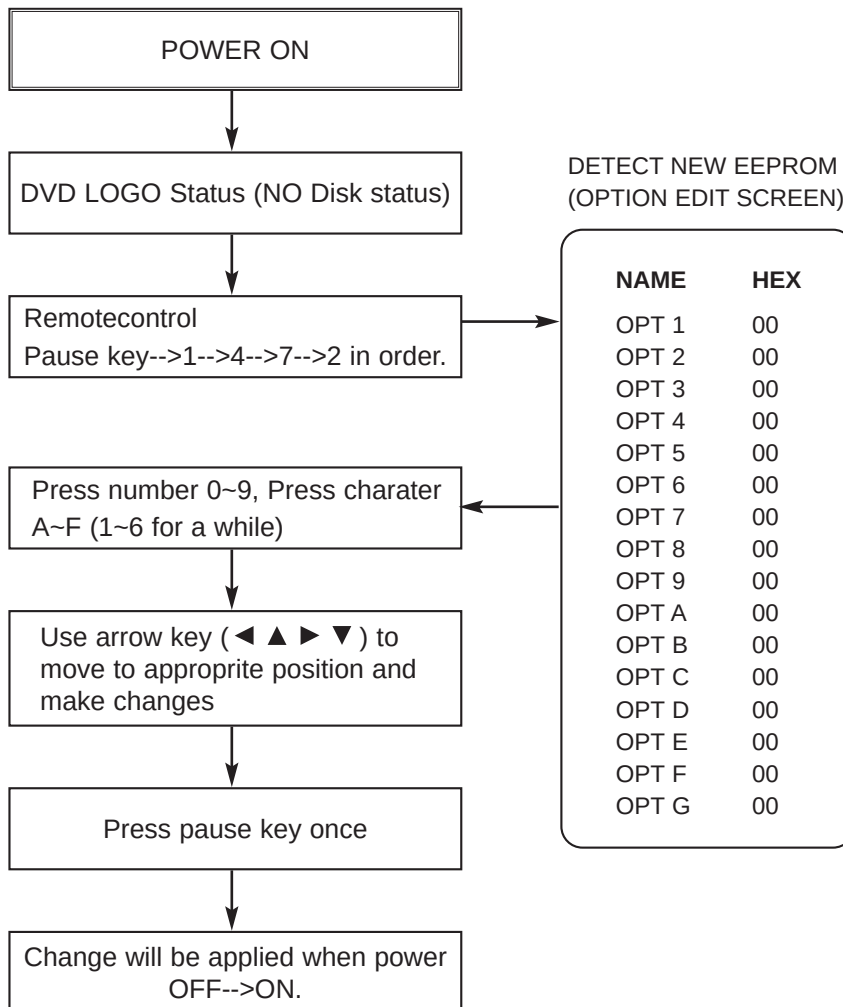
CAUTION : BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.

8. Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

CAUTION. GRAPHIC SYMBOLS

	THE LIGHTNING FLASH WITH APOWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

SERVICE INFORMATION FOR EEPROM



* OPTION

- NTSC model doesn't have VCR option and use DVD option B~F as VCR option. (only DVD exist)
- PAL model has another separate VCR option. (Both VCR and DVD exist)

SPECIFICATIONS

GENERAL

Power supply	Refer to main label
Power consumption	Refer to main label
Net Weight	3.9 kg
External dimensions (W x H x D)	430 x 57 x 295 mm
Operating conditions	Temperature: 5°C to 35°C, Operation status: Horizontal
Operating humidity	5% to 85%

CD/DVD

Laser	Semiconductor laser, wavelength 650 nm
Signal system	PAL 625/50, NTSC 525/60
Frequency response (audio)	150 Hz to 18 kHz
Signal-to-noise ratio (audio)	More than 75 dB (1 kHz, NOP -6 dB, 20 kHz LPF/A-Filter)
Dynamic range (audio)	More than 70 dB
Harmonic distortion (audio)	0.5 % (1 kHz, at 1W position) (20 kHz LPF)

VIDEO

Video output	1.0 V (p-p), 75 Ω, negative sync., SCART (TO TV)
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TUNER

FM

Tuning Range	87.5 - 108.0 MHz or 65.0 - 74.0 MHz, 87.5 - 108.0 MHz
Intermediate Frequency	10.7 MHz
Signal-to Noise Ratio	60 dB (Mono)
Frequency Response	140 - 8,000 Hz

AM [MW]

Tuning Range	522 - 1,620 kHz or 520 - 1,720 kHz
Intermediate Frequency	450 kHz

AMPLIFIER(LH-T76'S)

Stereo mode	100W + 100W (Rated Output Power 100W, 4Ω at 1 kHz, THD 10 %)
Surround mode	Front: 100W + 100W (Rated Output Power 100W, THD 10 %)
(* Depending on the sound mode settings and the source, there may be no sound output.)	Centre*: 100W
	Surround*: 100W + 100W
	(Rated Output Power 100W, 4Ω at 1 kHz, THD 10 %)
	Subwoofer*: 200W (Rated Output Power 150W, 3Ω at 30 Hz, THD 10 %)
Inputs	AV IN, MIC (OPTIONAL)
Outputs	S-VIDEO, MONITOR, PHONES: (32 Ω, 1.0 V)

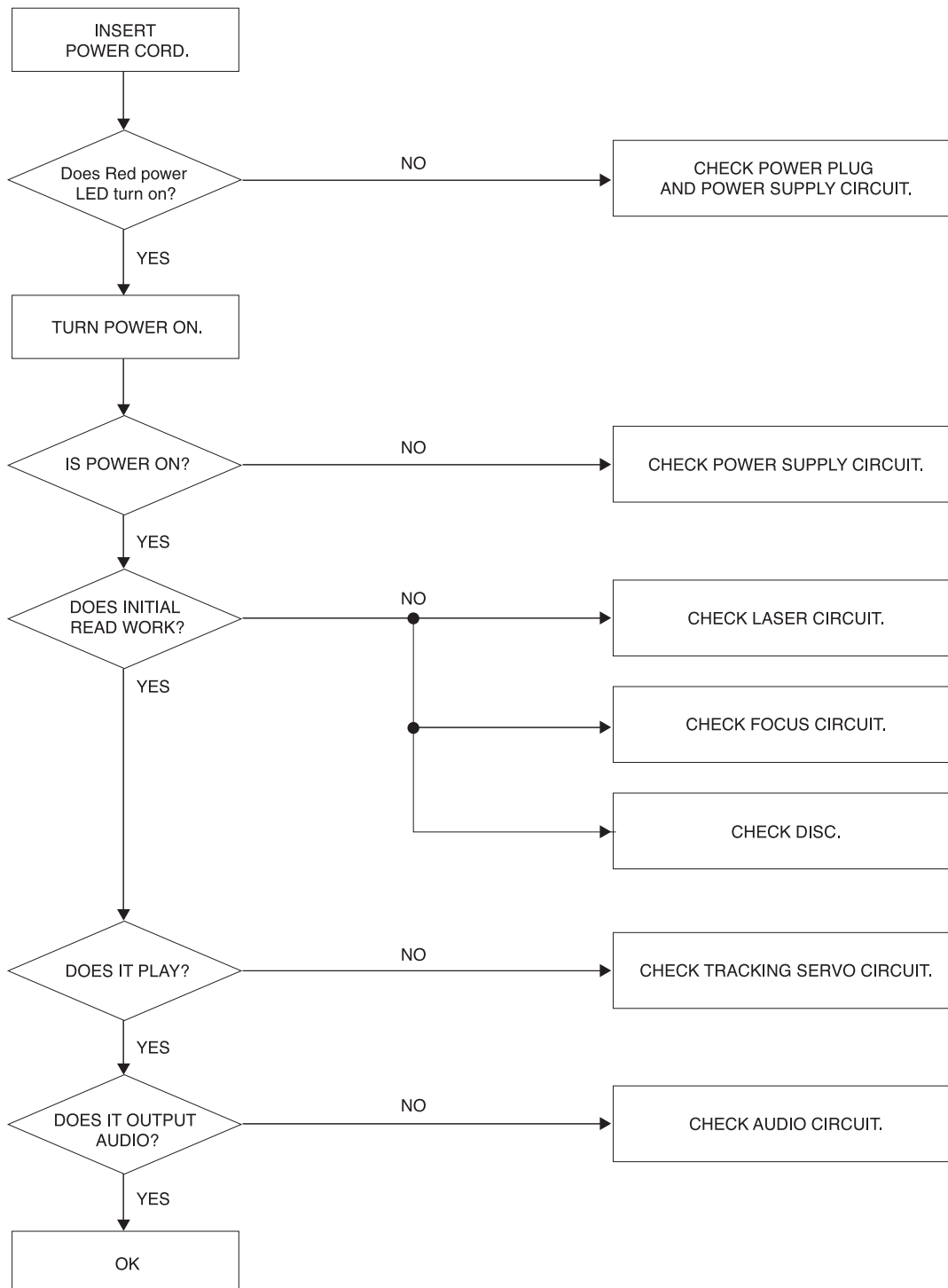
SPEAKERS(LHS-76SB)

	Front/Rear Speaker (LHS-76SBS)	Center speaker (LHS-76SBC)	Passive Subwoofer (LHS-76SBW)
Type	1 Way 1 Speaker	1 Way 1 Speaker	1 Way 1 Speaker
Impedance	4 Ω	4 Ω	3 Ω
Frequency Response	120 - 20,000 Hz	120 - 20,000 Hz	40 - 1,500 Hz
Sound Pressure Level	83 dB/W (1m)	83 dB/W (1m)	82 dB/W (1m)
Rated Input Power	100 W	100 W	200 W
Max. Input Power	200 W	200 W	400 W
Net Dimensions(WxHxD)	117 x 210 x 111 mm	300 x 115 x 110 mm	240 x 450 x 390 mm
Net Weight	0.65 kg	0.78 kg	10.5 kg

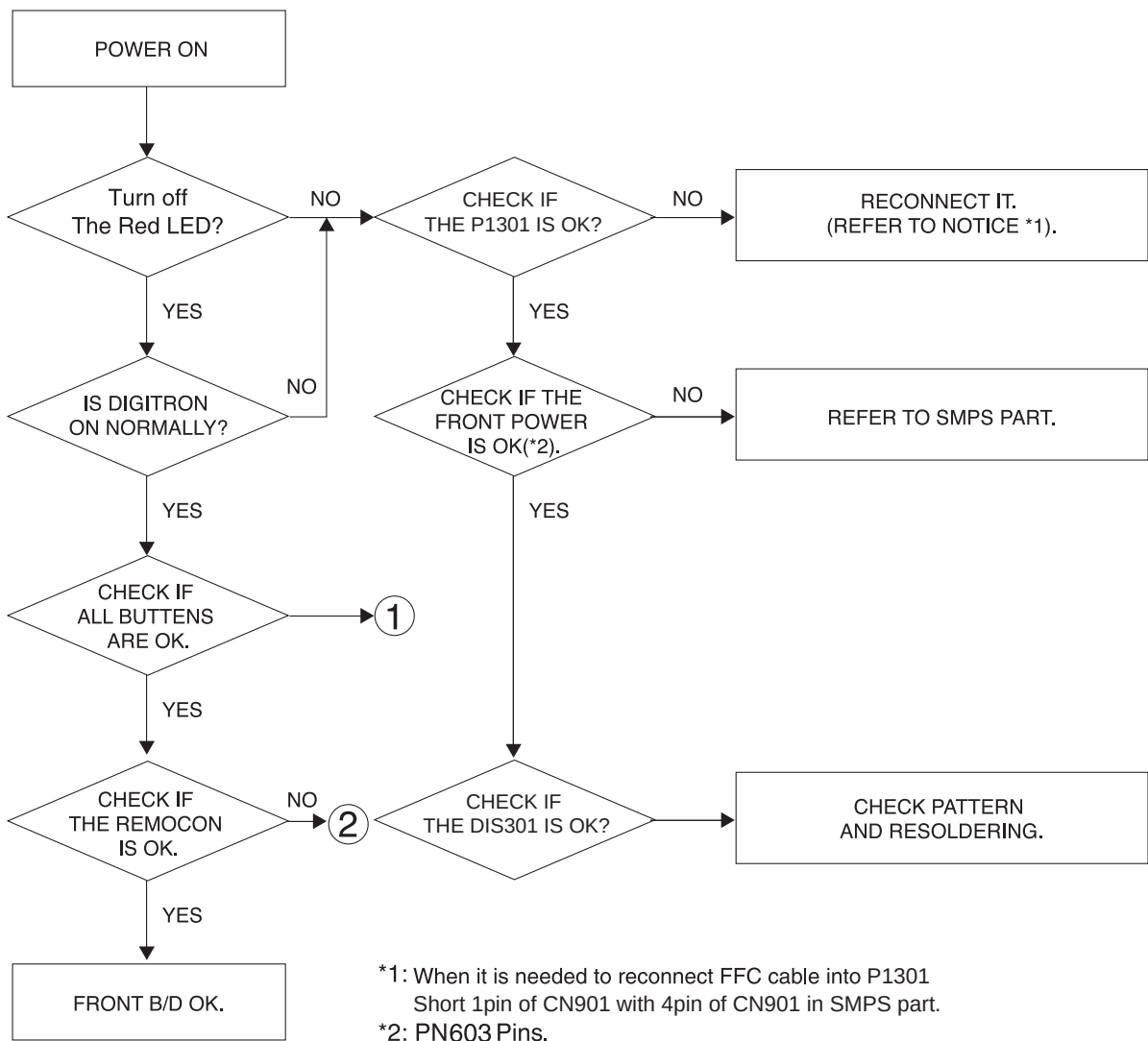
SECTION 2. AUDIO PART

AUDIO TROUBLESHOOTING GUIDE

1. POWER SUPPLY CIRCUIT



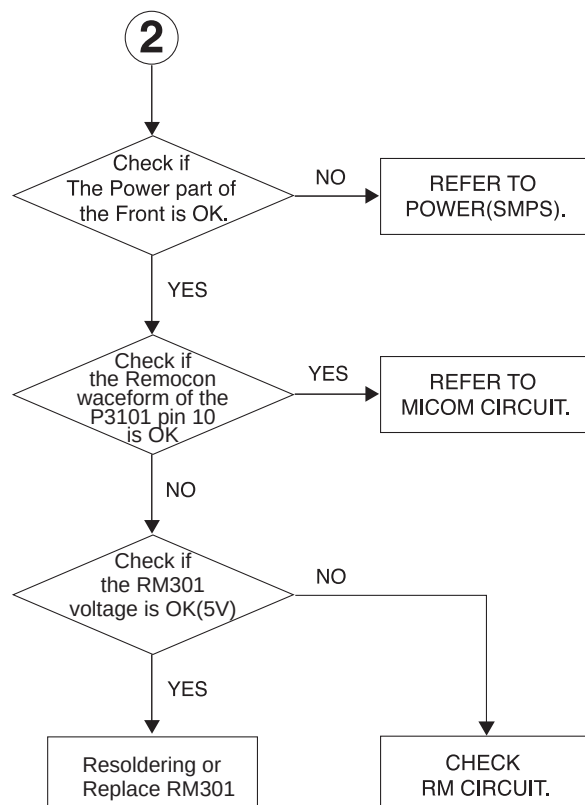
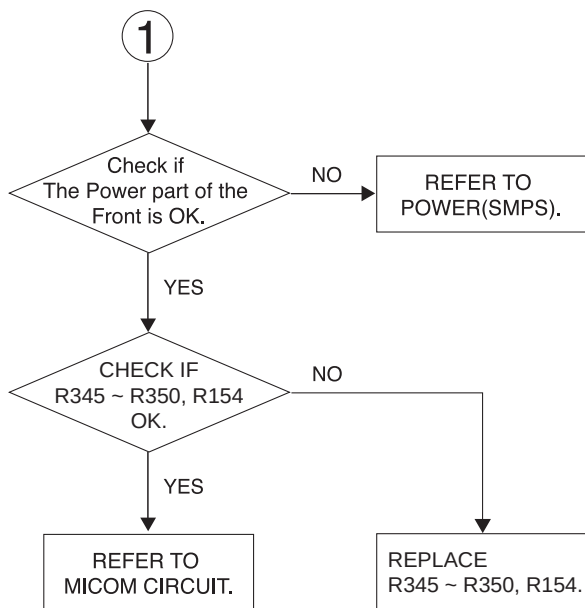
2. FRONT CIRCUIT (1/2)



*1: When it is needed to reconnect FFC cable into P1301
Short 1pin of CN901 with 4pin of CN901 in SMPS part.

*2: PN603 Pins.
PIN1 : -41 VKK
PIN2 : -22 FL+
PIN3 : -26.5 FL-
PIN12 : +5.0

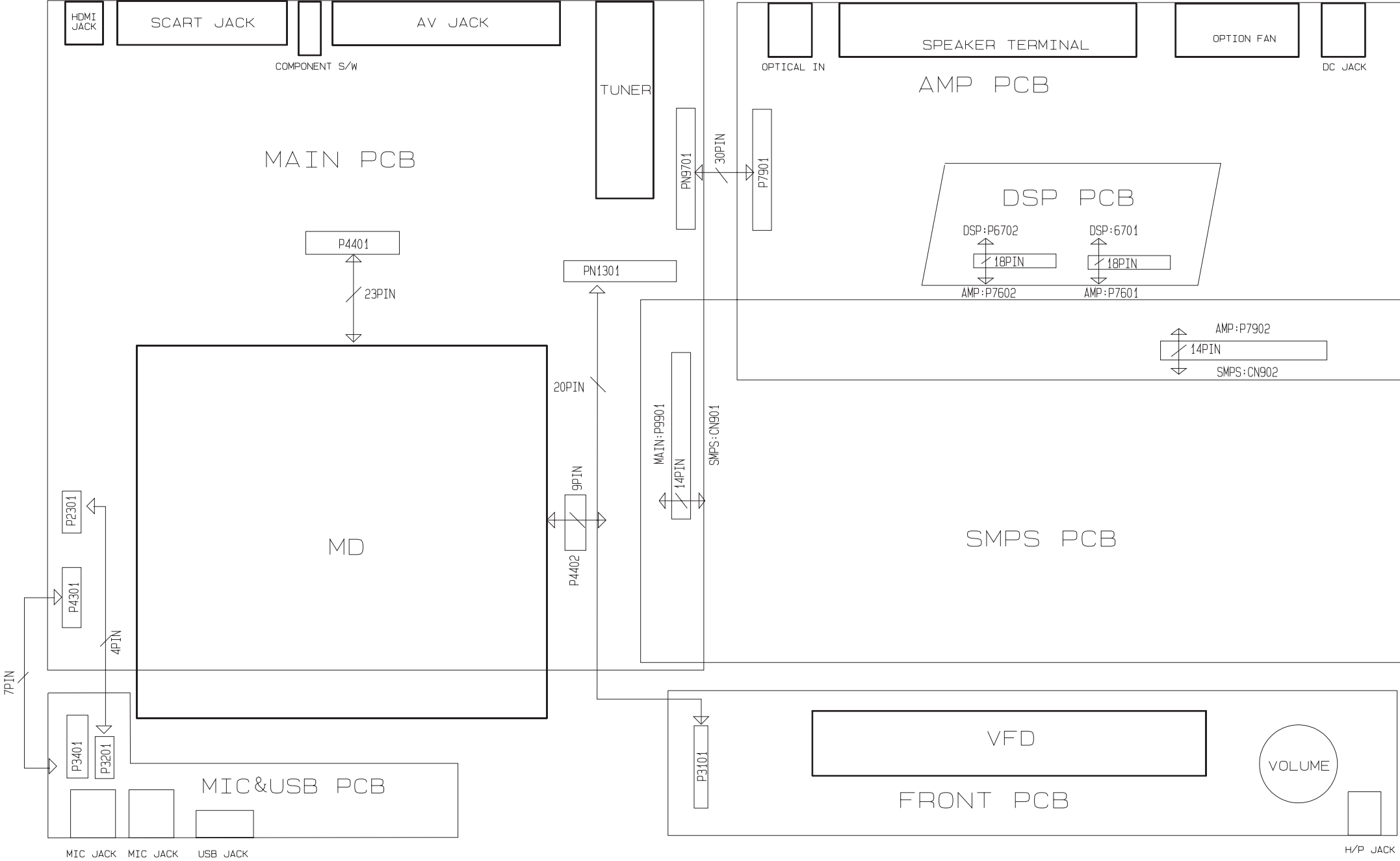
3. FRONT CIRCUIT (2/2)



MEMO

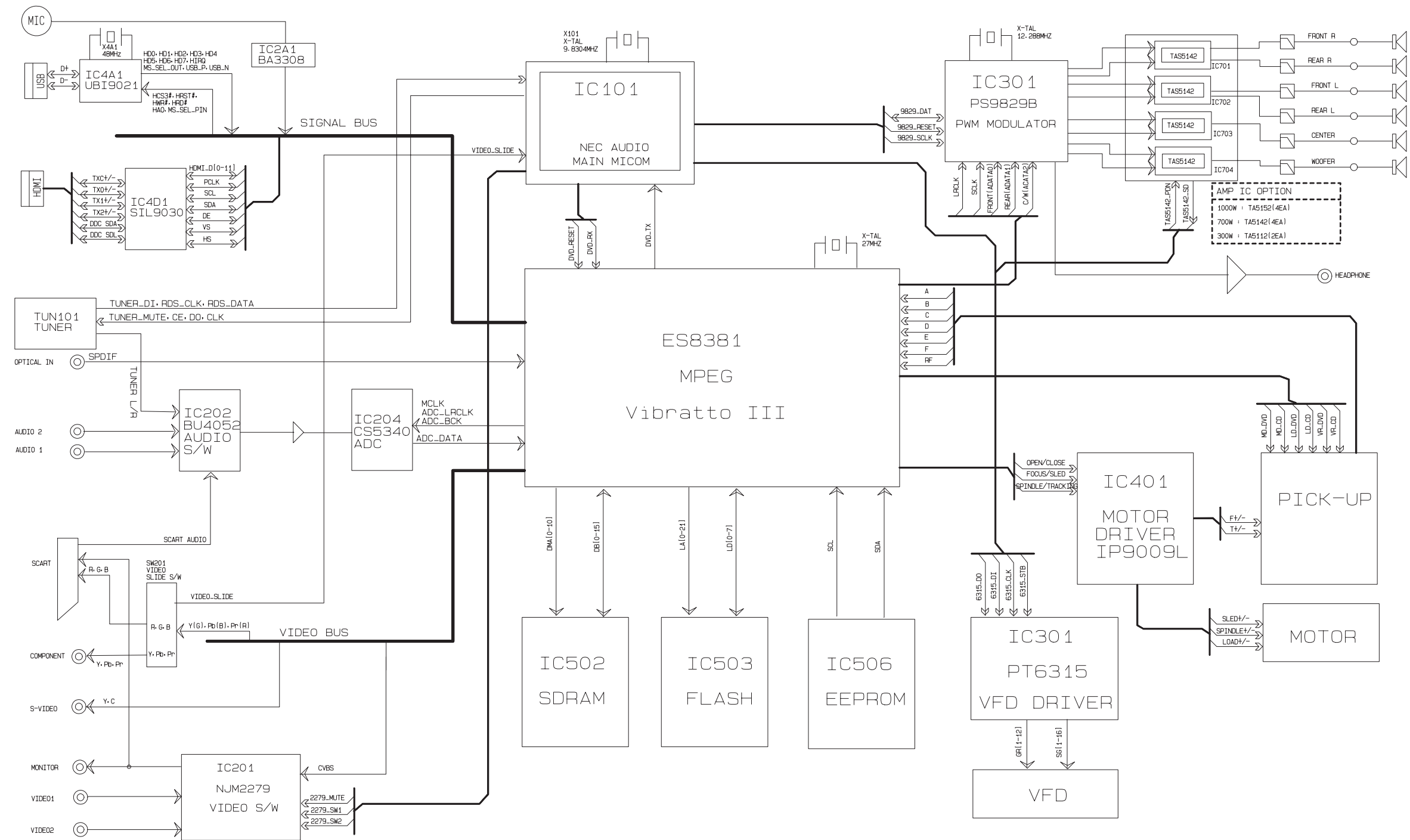
Handwriting practice lines consisting of 28 horizontal dotted lines.

WIRING DIAGRAM



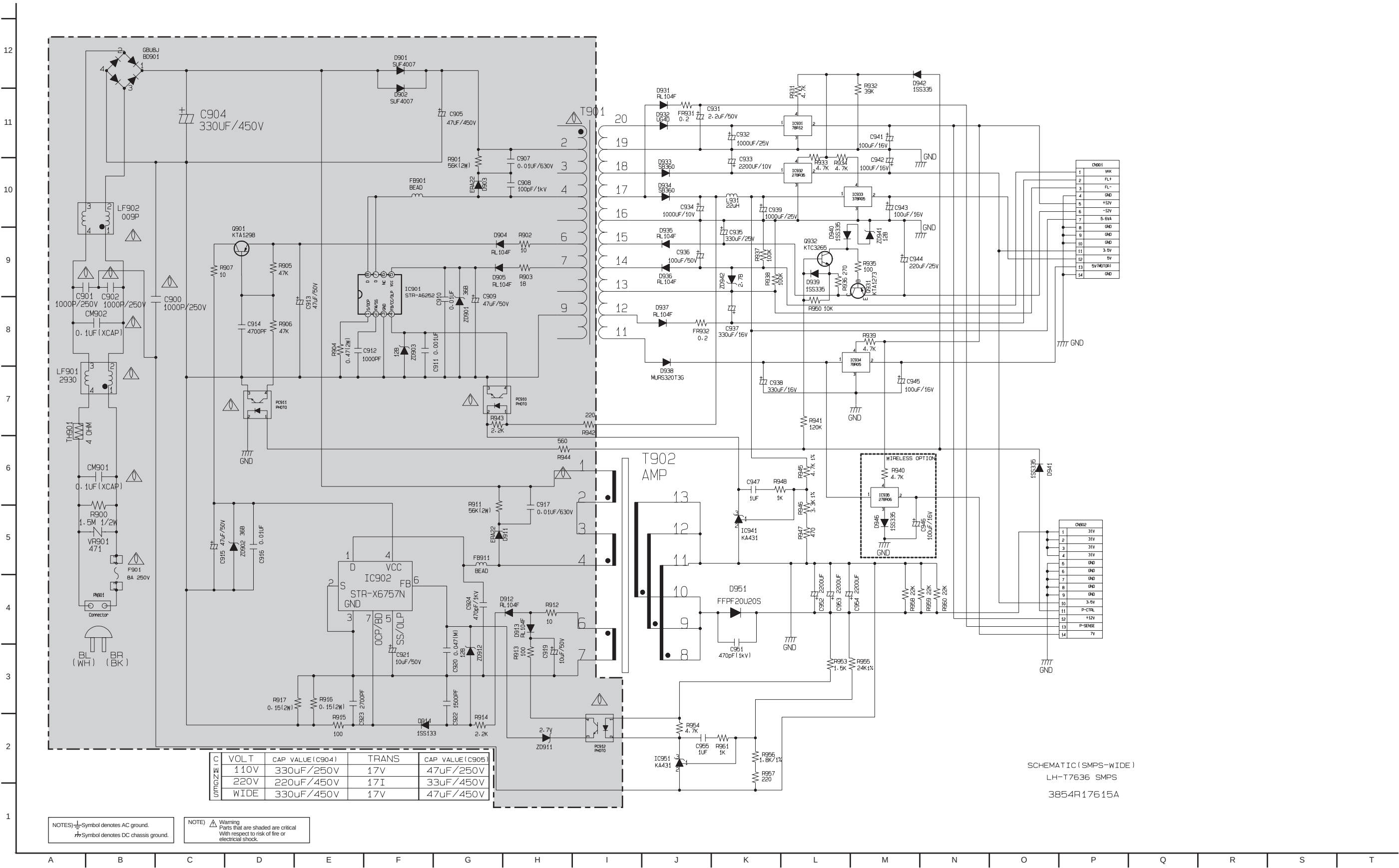
EMATIC DIAGRAM (WIRING DIAGRAM)
LH-T9655

BLOCK DIAGRAM

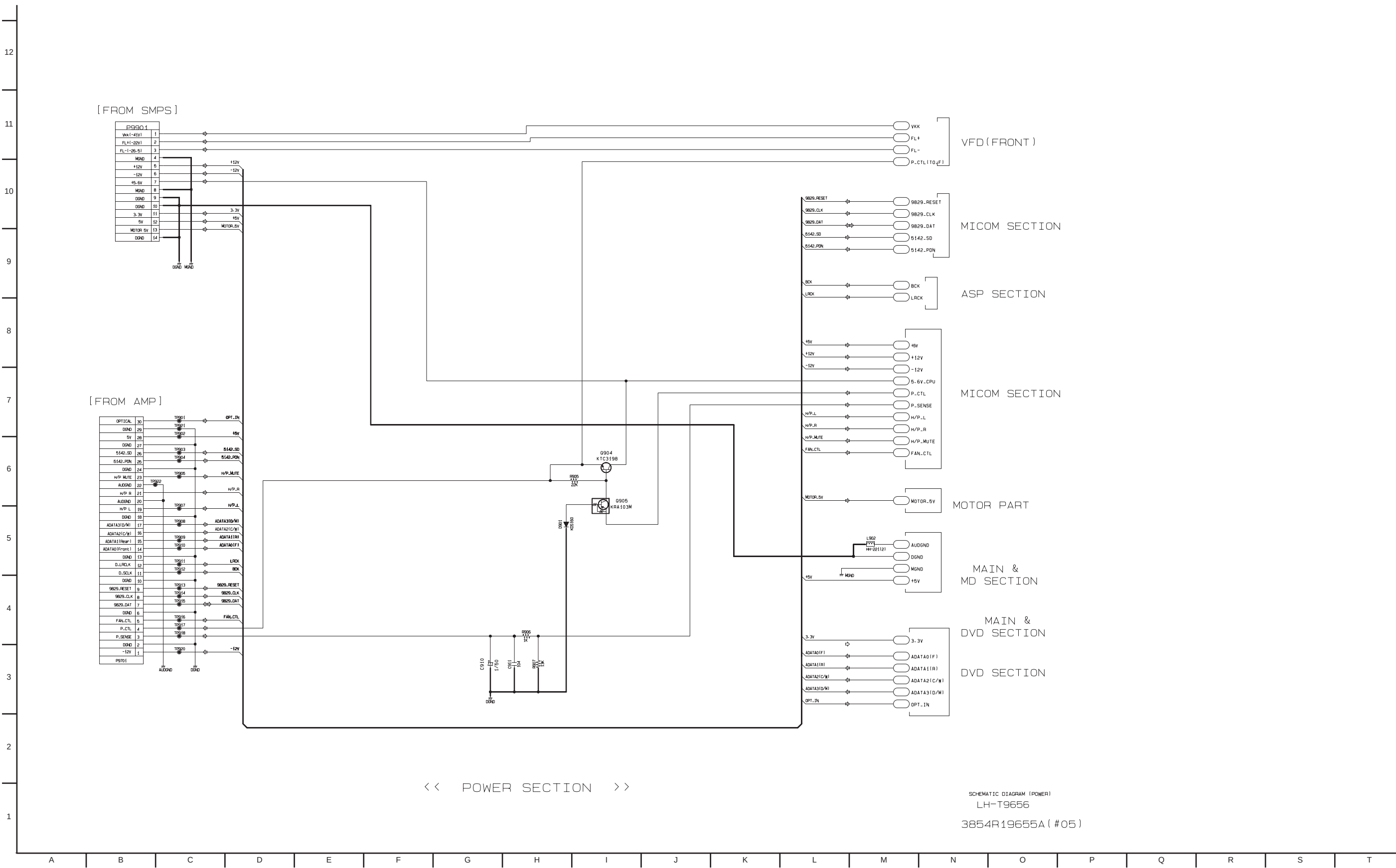


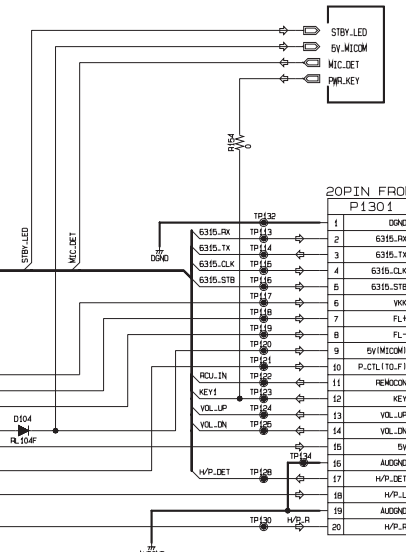
CIRCUIT DIAGRAMS

1. SMPS(POWER) CIRCUIT DIAGRAM



2. POWER INTERFACE CIRCUIT DIAGRAM



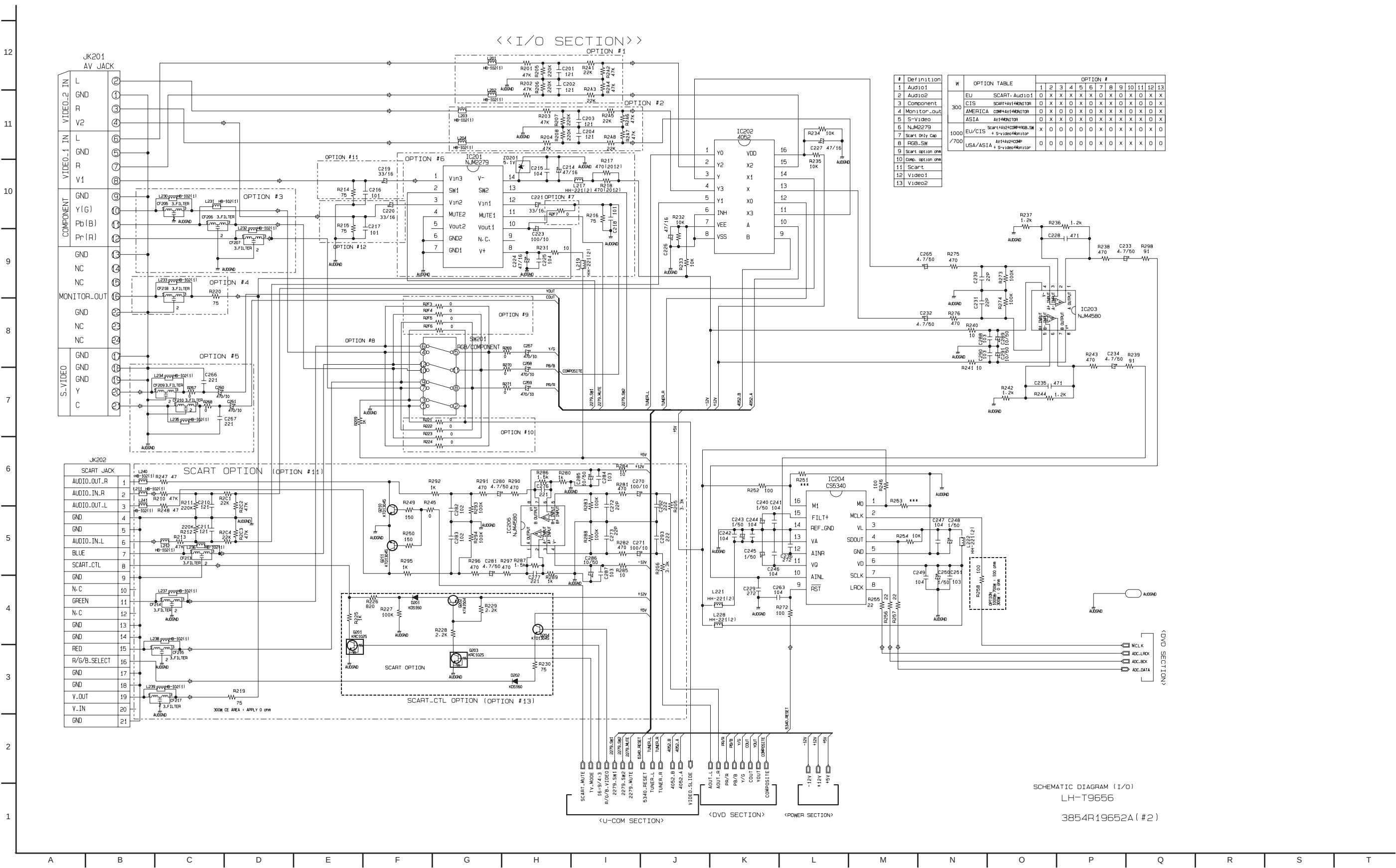
[illegible]<MAIN_MIC&USB_SECTION>

SCHEMATIC DIAGRAM (MICOM)
LH-T9656
3854R19651A (#01)

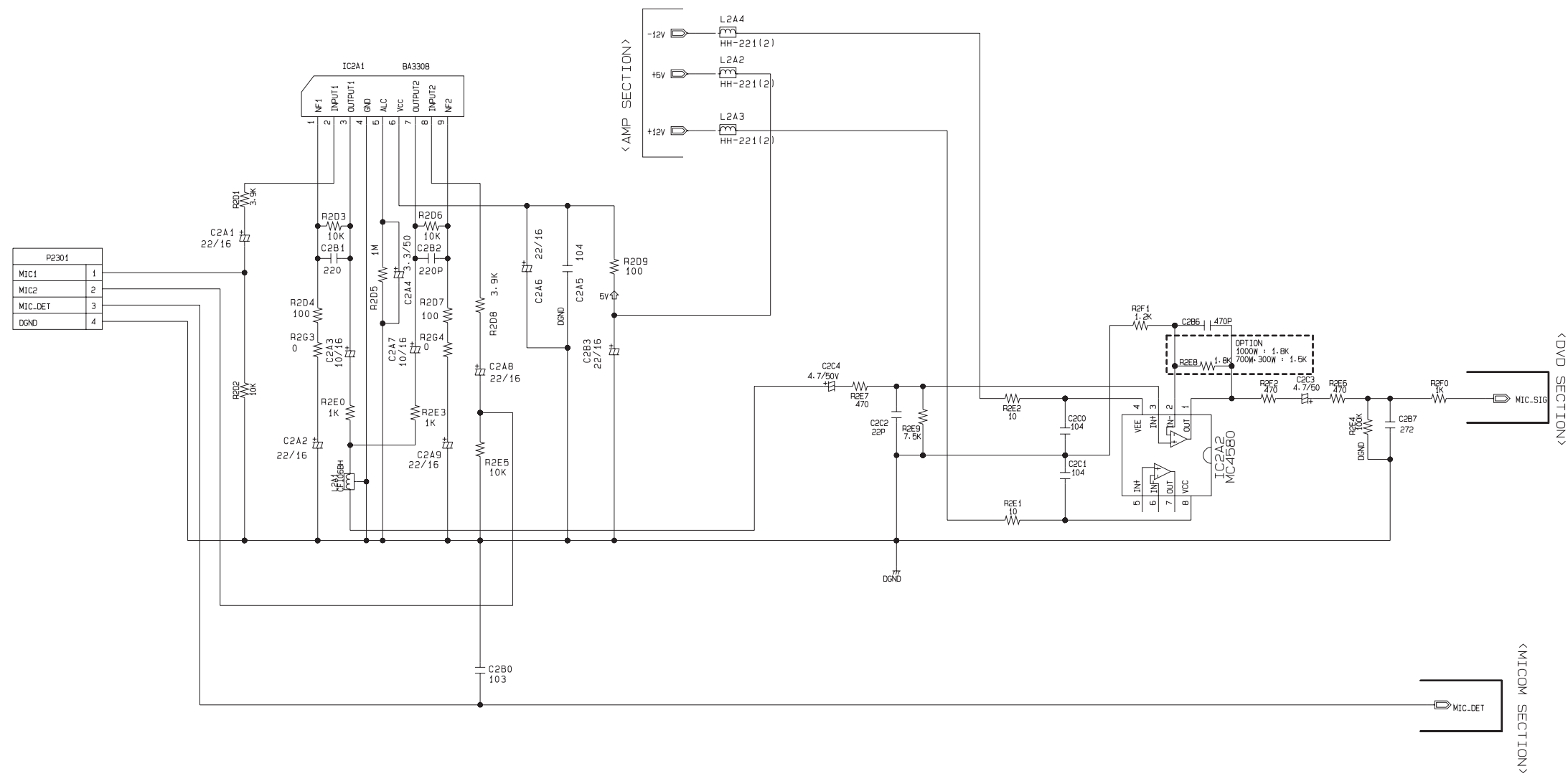
The schematic diagram illustrates the internal circuitry of the LH-T9656 servo motor driver. It features a central IC401 (IP9009) which is the core control IC. The circuit includes a motor (MOTOR5V) and a feedback potentiometer (POT5V). The motor is connected to the motor driver section, which includes a motor driver IC (MOTOR5V) and a motor driver IC (MOTOR5V). The feedback potentiometer is connected to the feedback section, which includes a feedback IC (POT5V) and a feedback IC (POT5V). The control section includes a control IC (IC401) and a control IC (IC401). The power section includes a power IC (MOTOR5V) and a power IC (MOTOR5V). The diagram also shows various passive components such as resistors (R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, 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,

	Q	R
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5. I/O CIRCUIT DIAGRAM



6. MIC CIRCUIT DIAGRAM

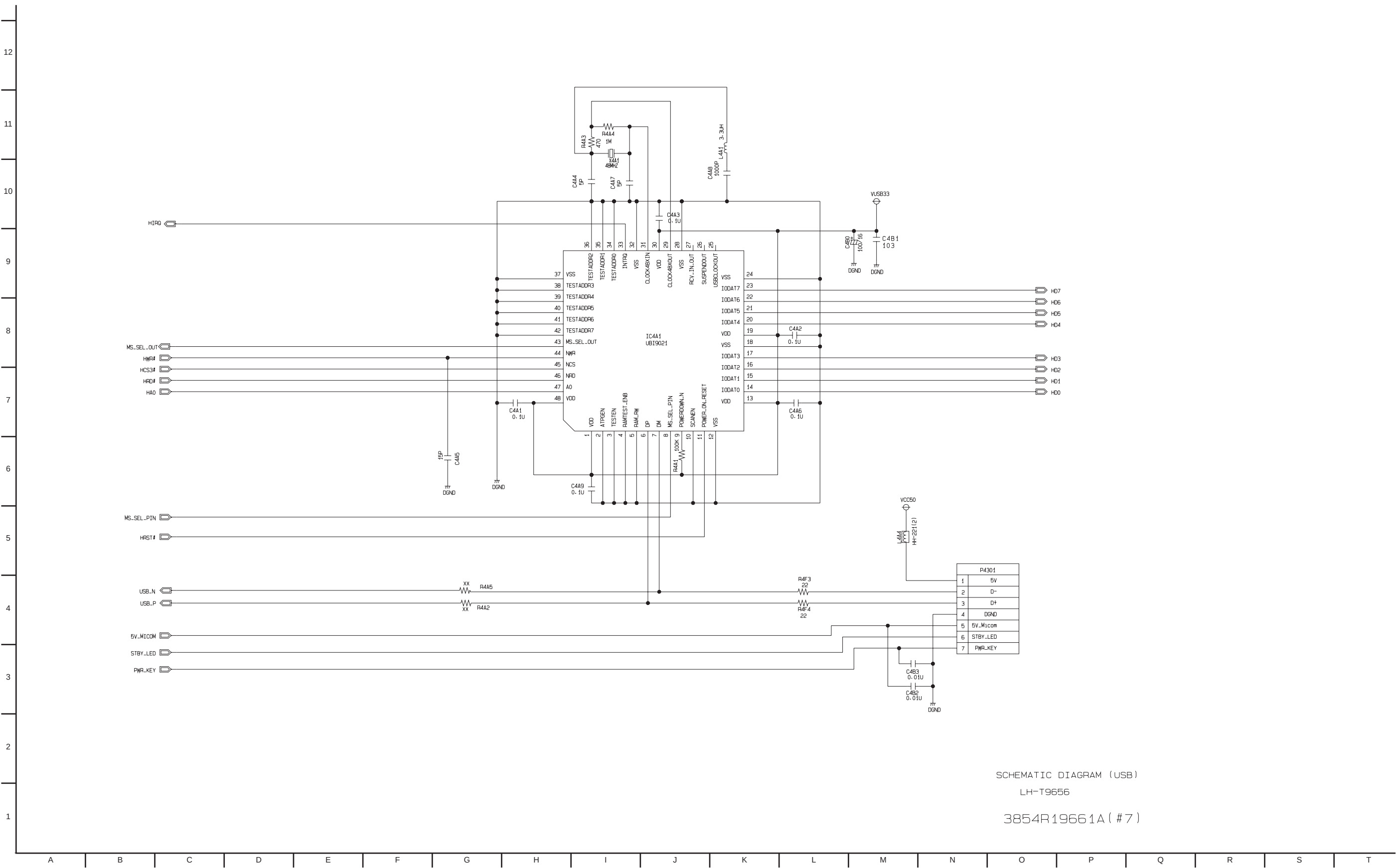


SCHEMATIC DIAGRAM (MIC)

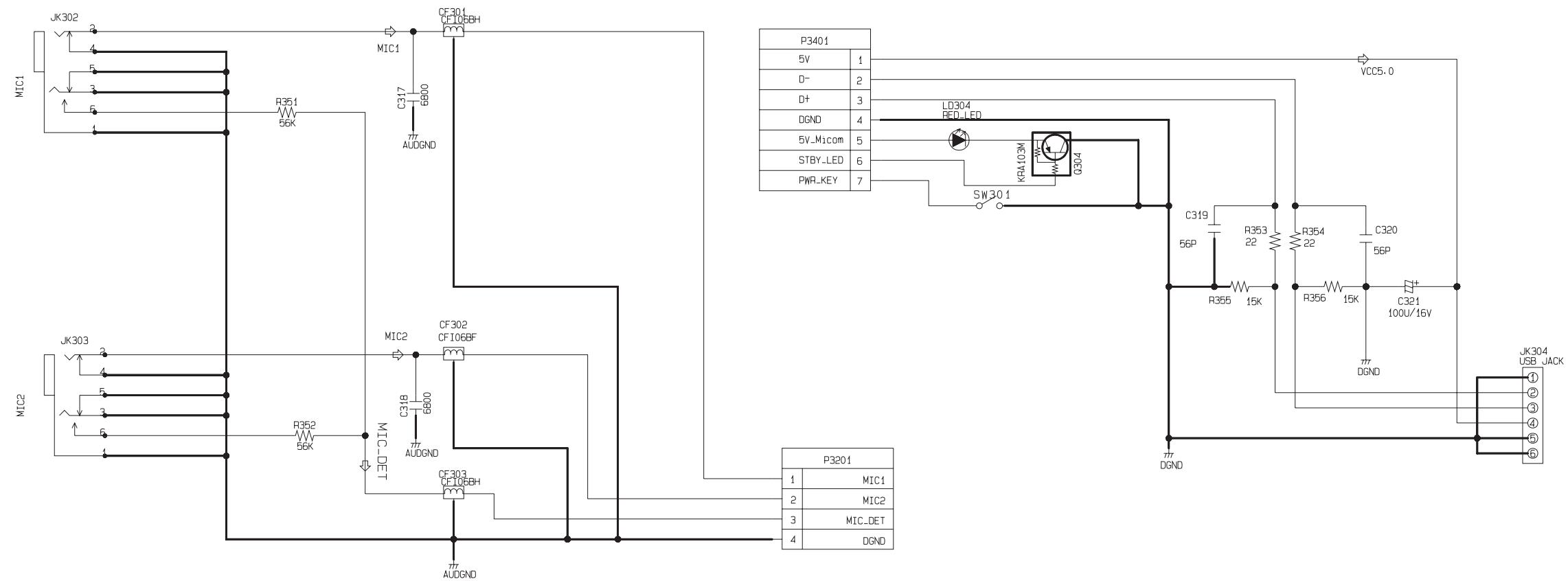
LH-T9656

3854R19660A (#6)

7. USB CIRCUIT DIAGRAM



8. MIC & USB CIRCUIT DIAGRAM

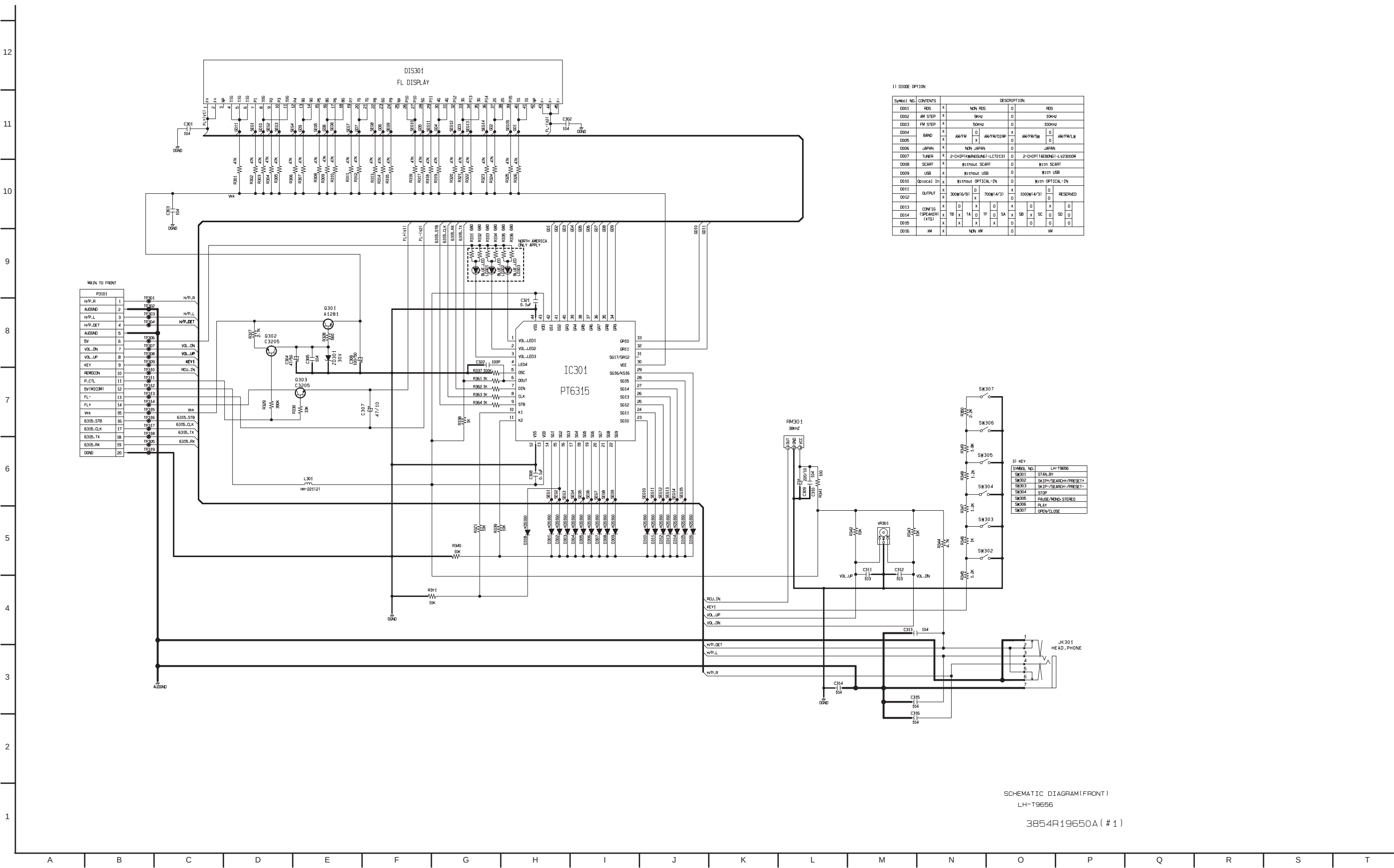


SCHEMATIC DIAGRAM (MIC&USB)
LH-T9656

3854R19658A (#02)

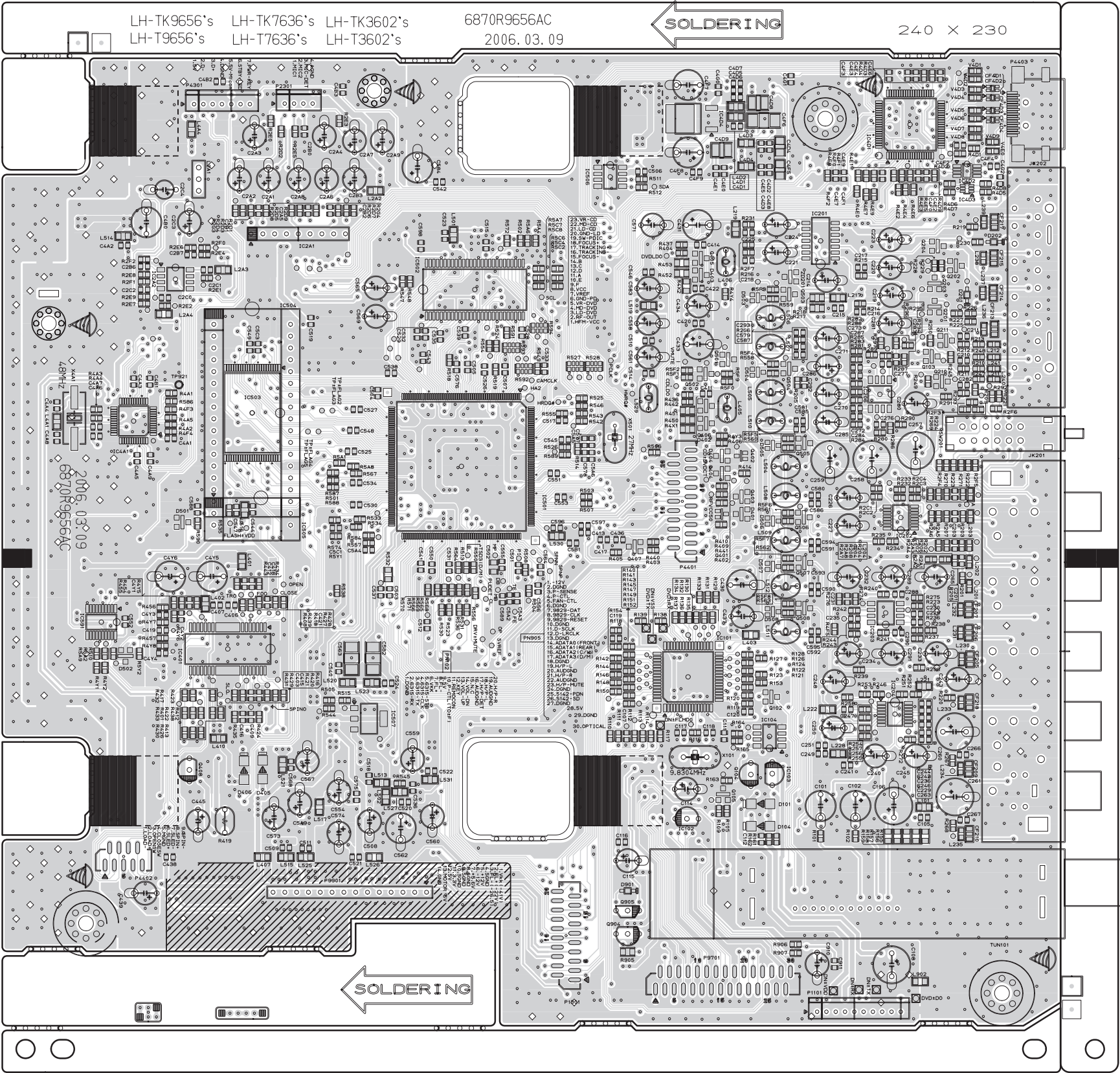
[illegible]

10. FRONT CIRCUIT DIAGRAM

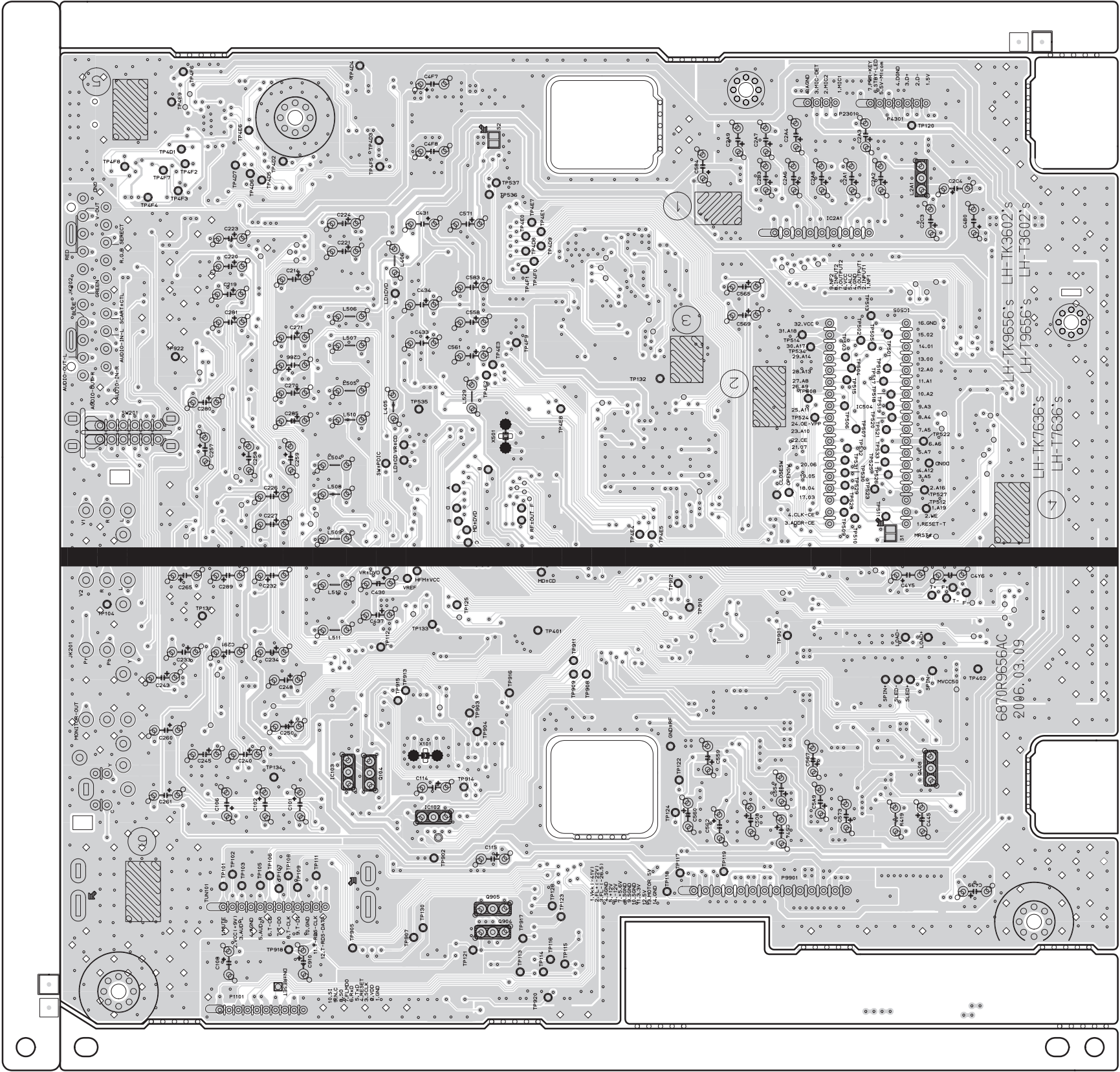


PRINTED CIRCUIT BOARD DIAGRAMS

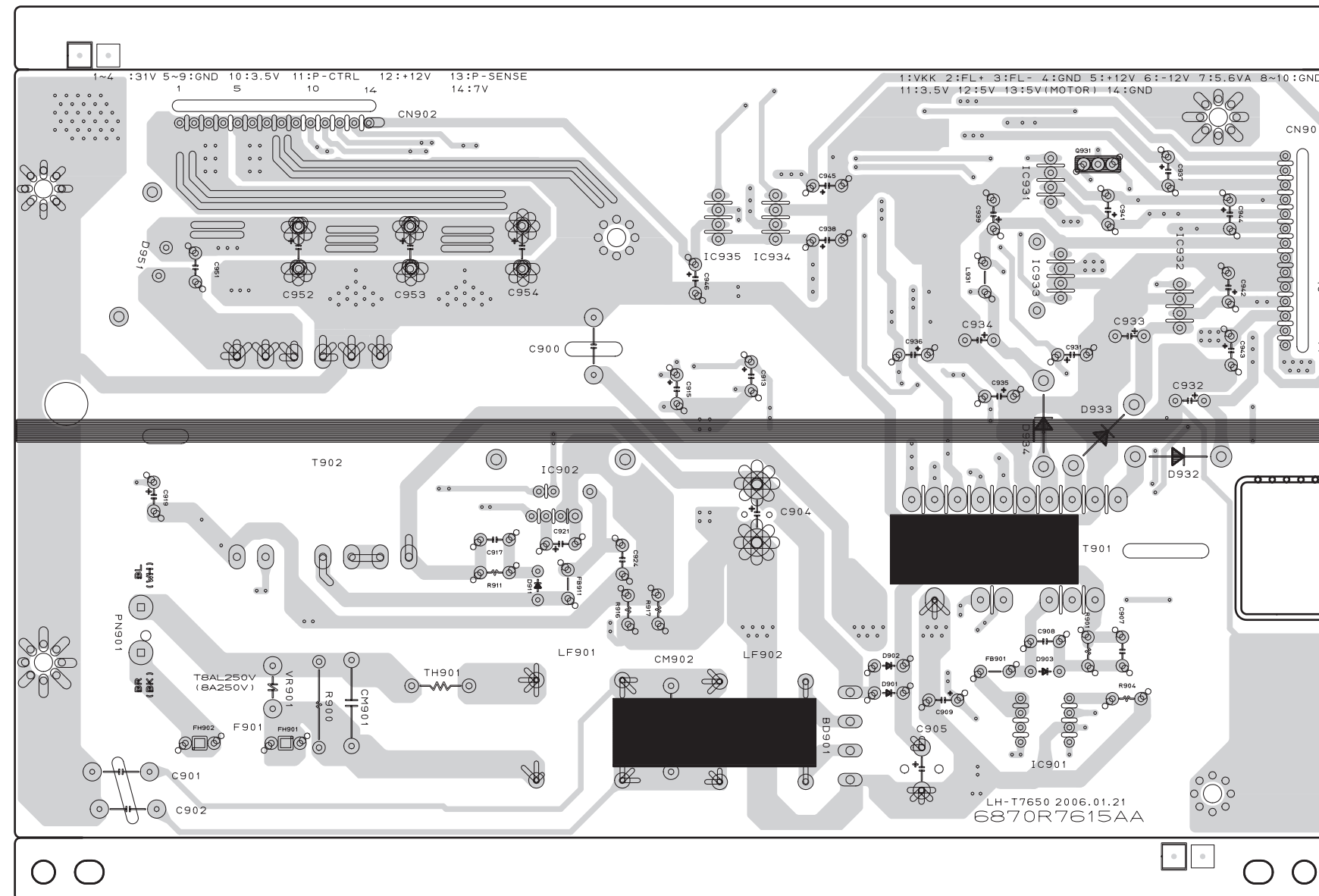
1. MAIN P.C. BOARD DIAGRAM (TOP VIEW)



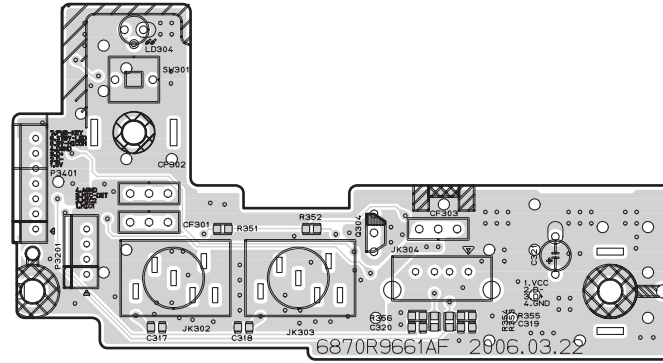
2. MAIN P.C. BOARD DIAGRAM (BOTTOM VIEW)



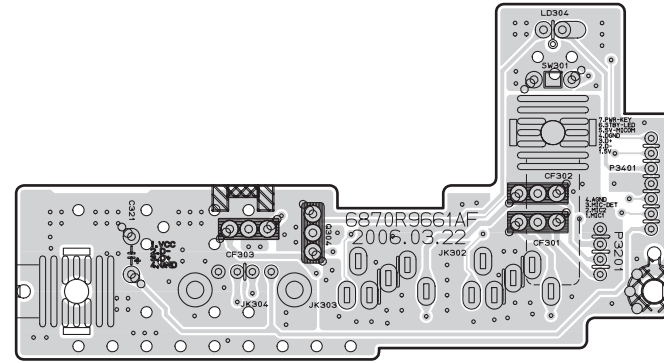
3. SMPS P.C. BOARD



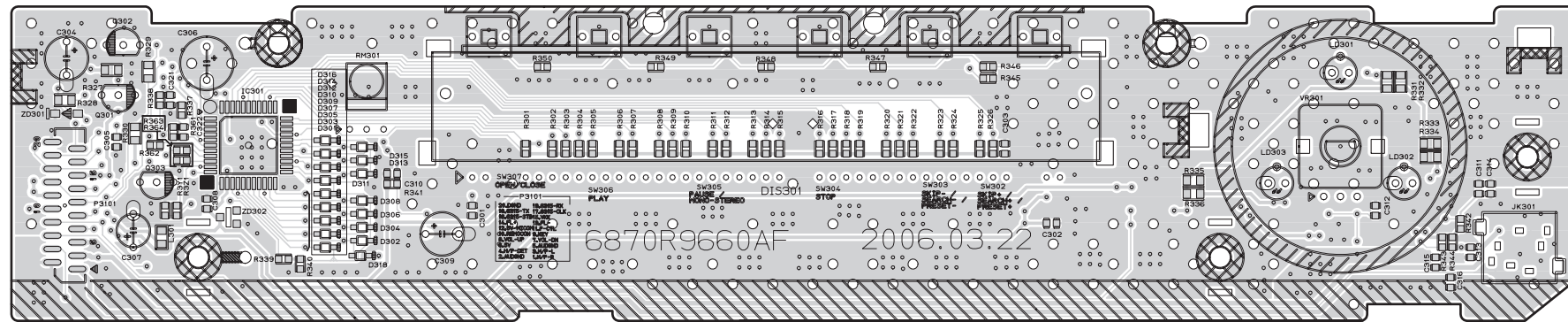
(TOP VIEW)



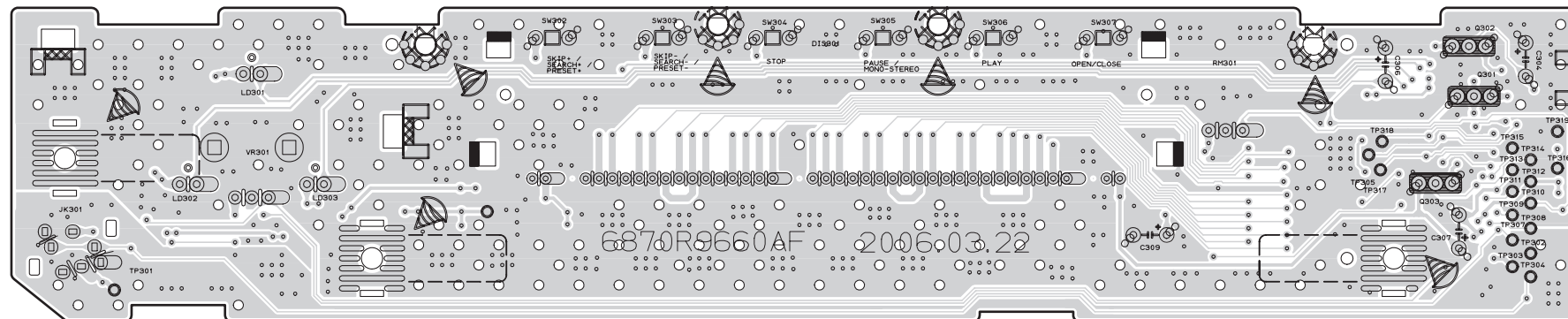
(BOTTOM VIEW)



(TOP VIEW)



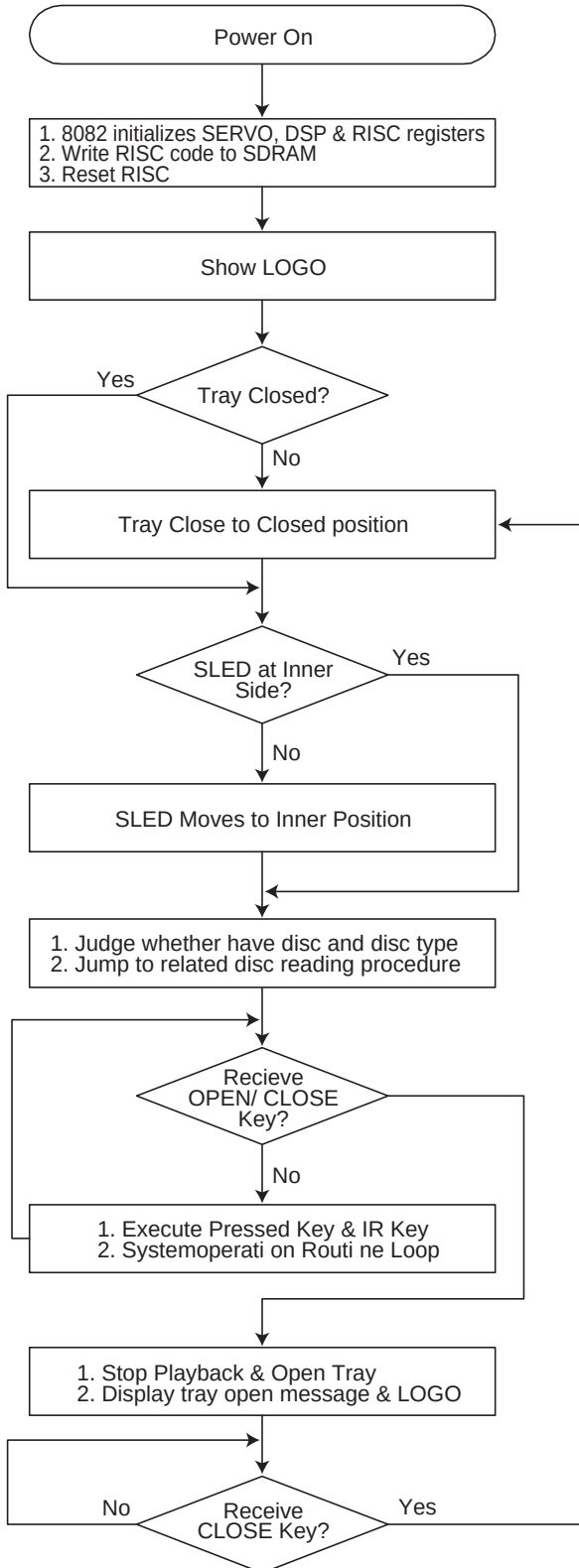
(BOTTOM VIEW)



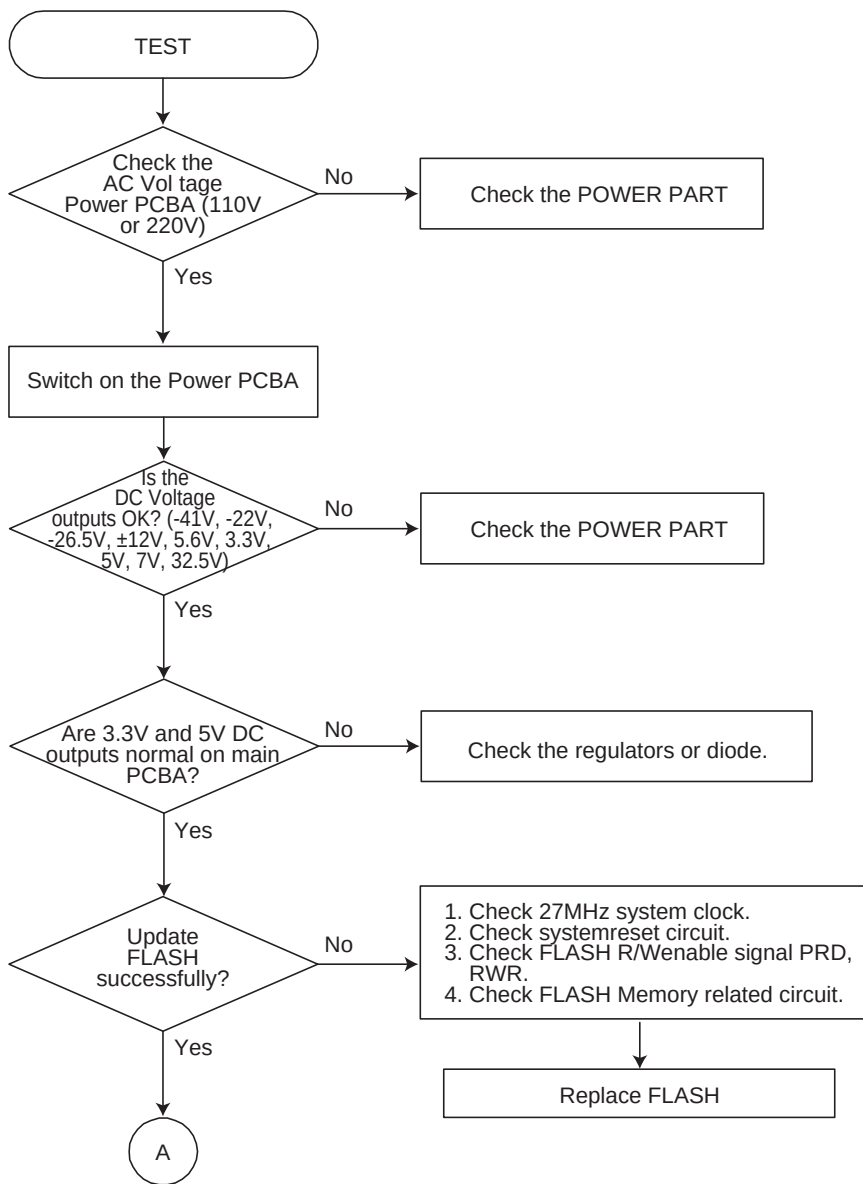
SECTION 3. DVD & AMP PART

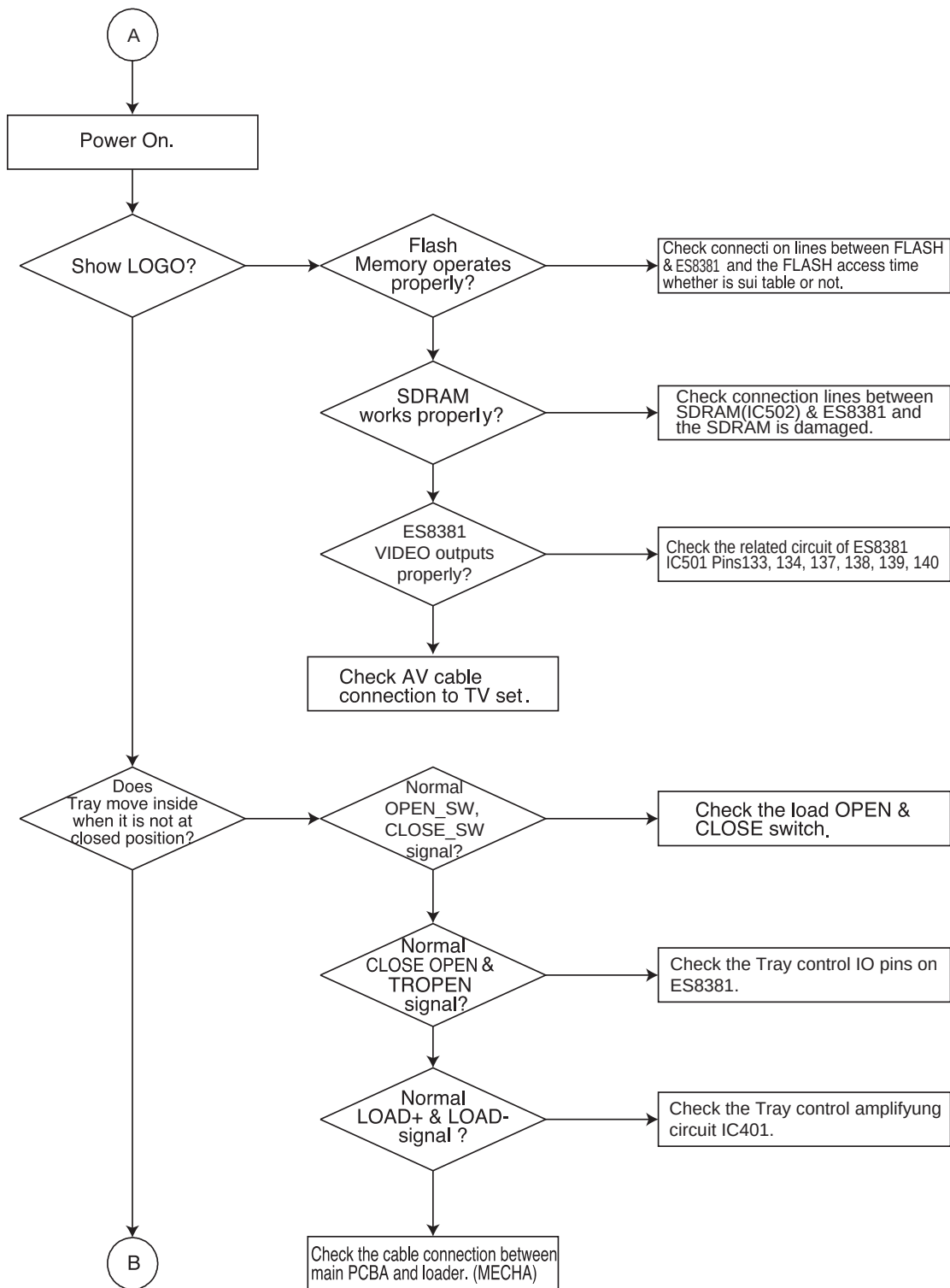
ELECTRICAL TROUBLESHOOTING GUIDE

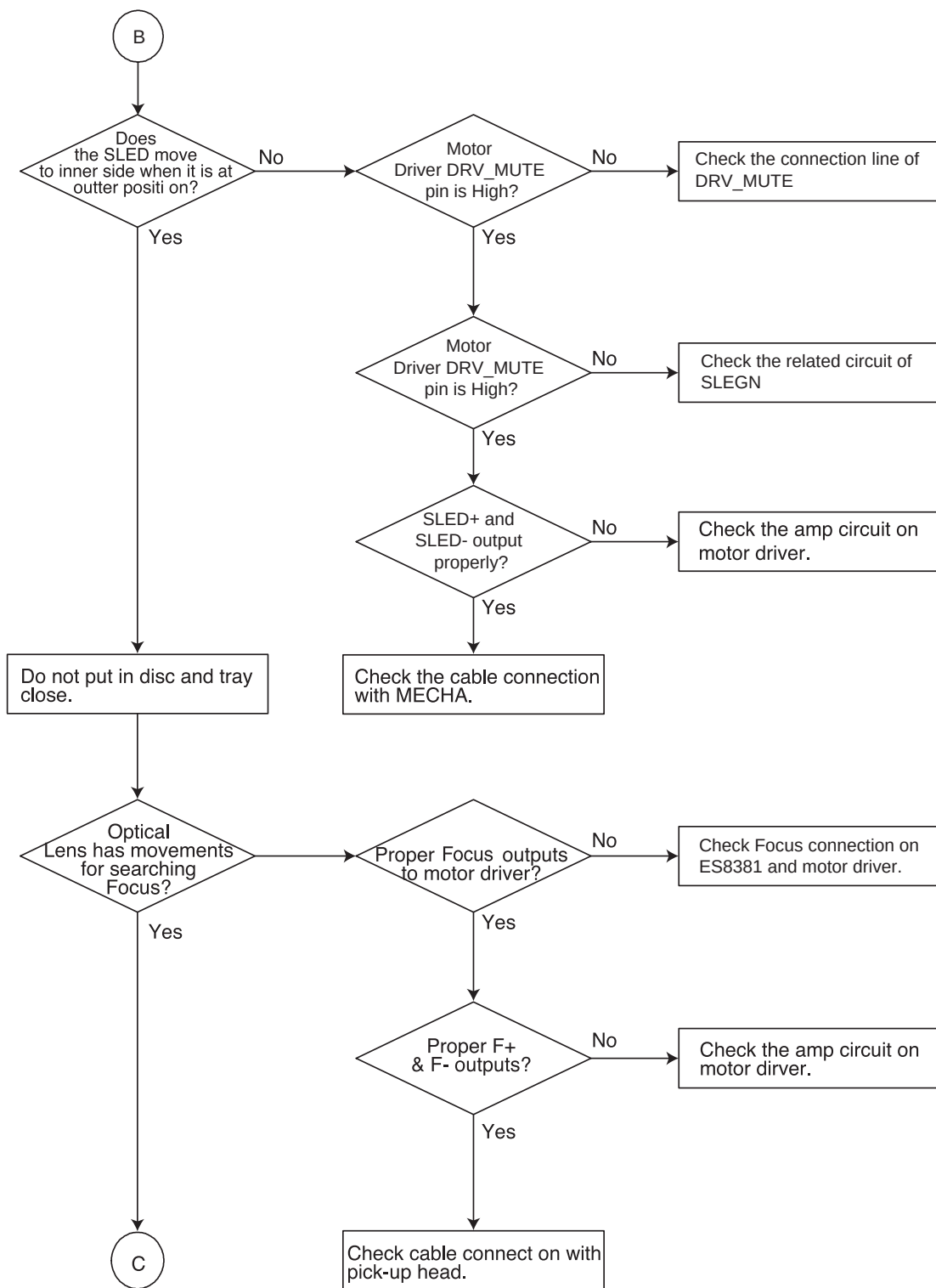
1. System operation flow

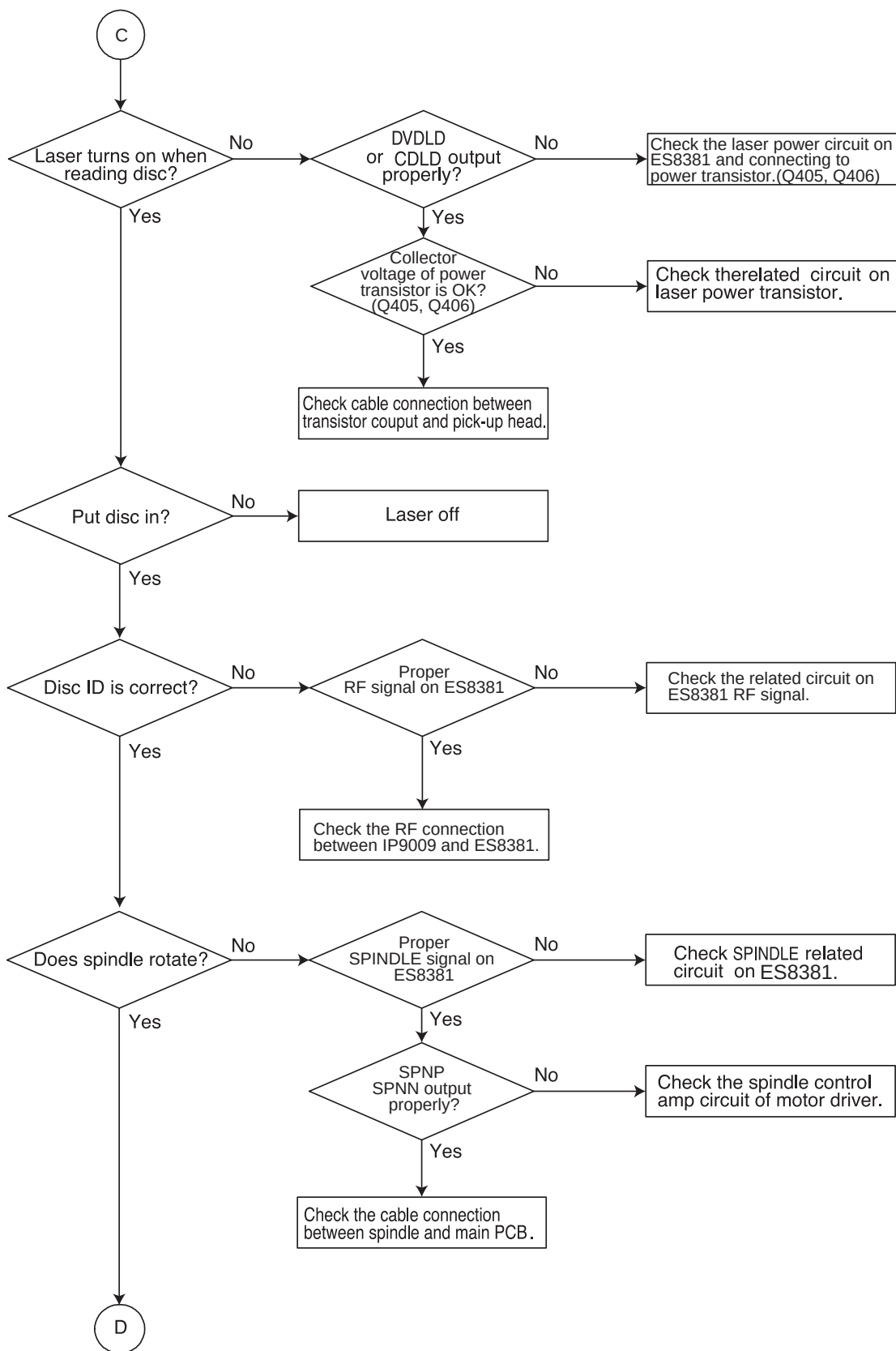


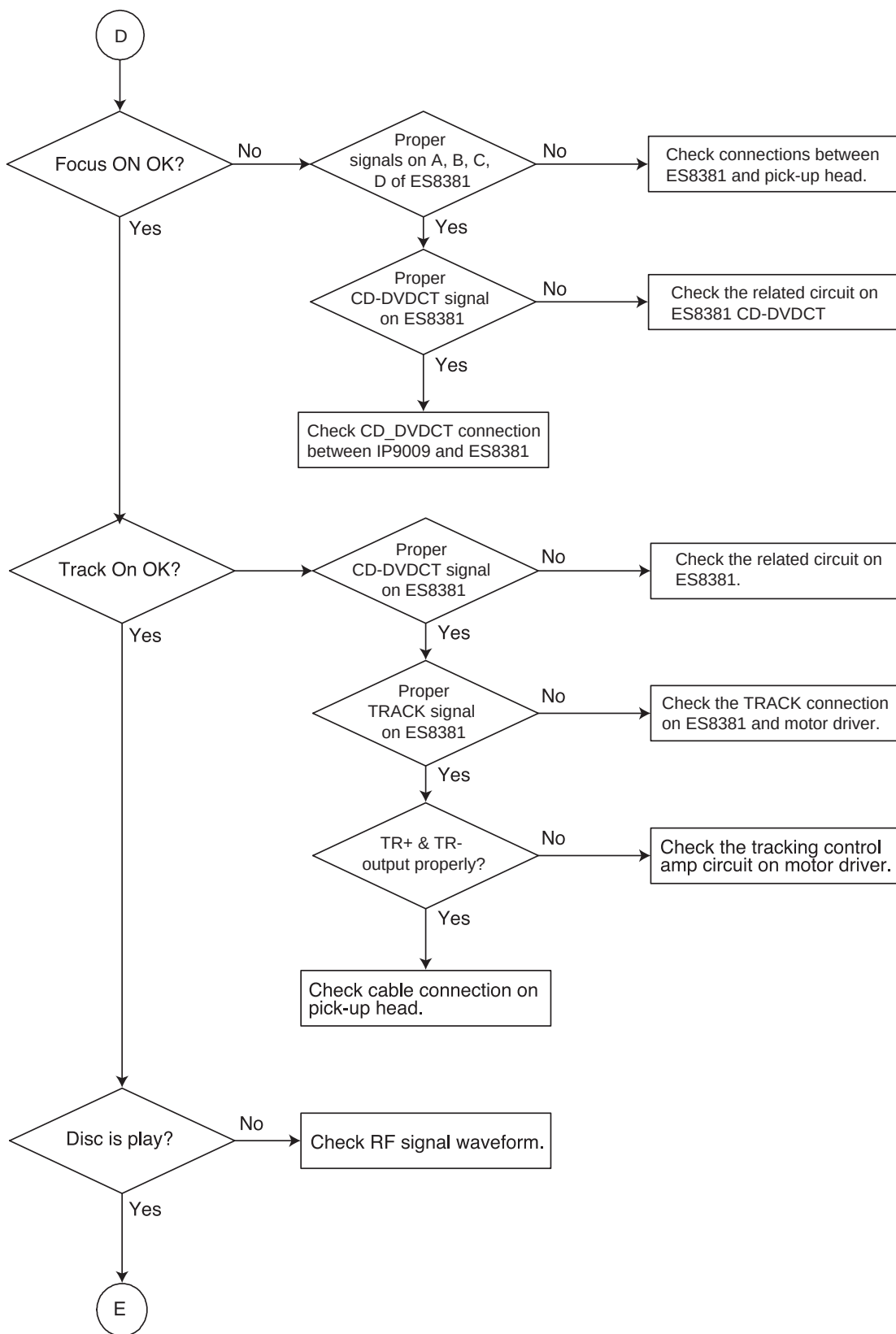
2. Test & debug flow

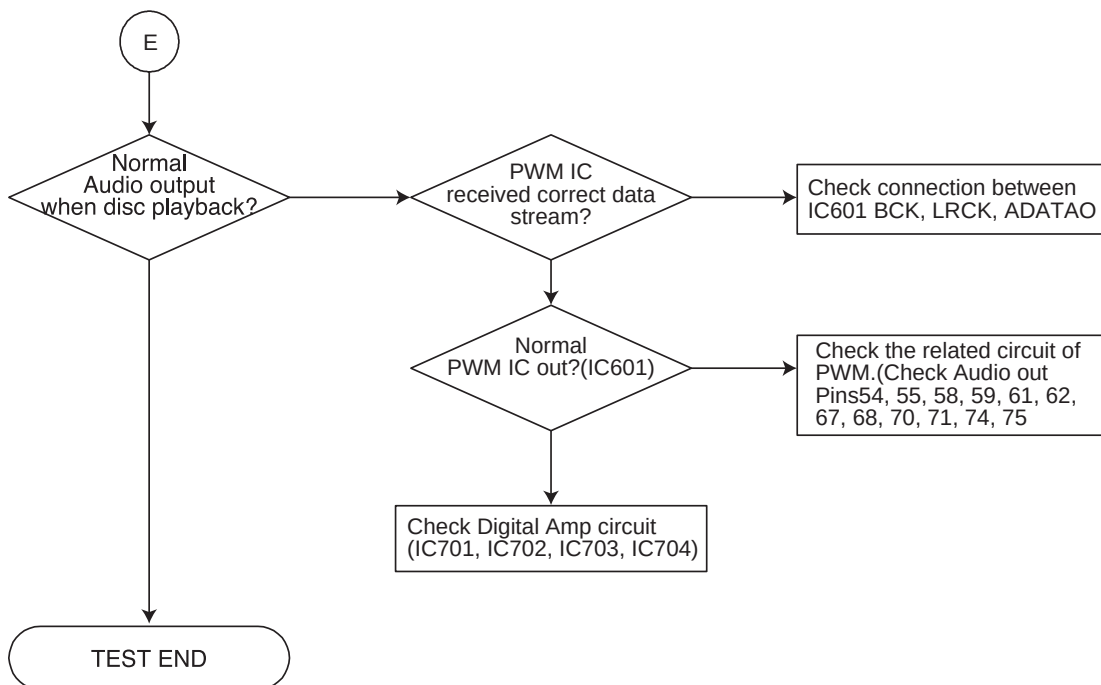




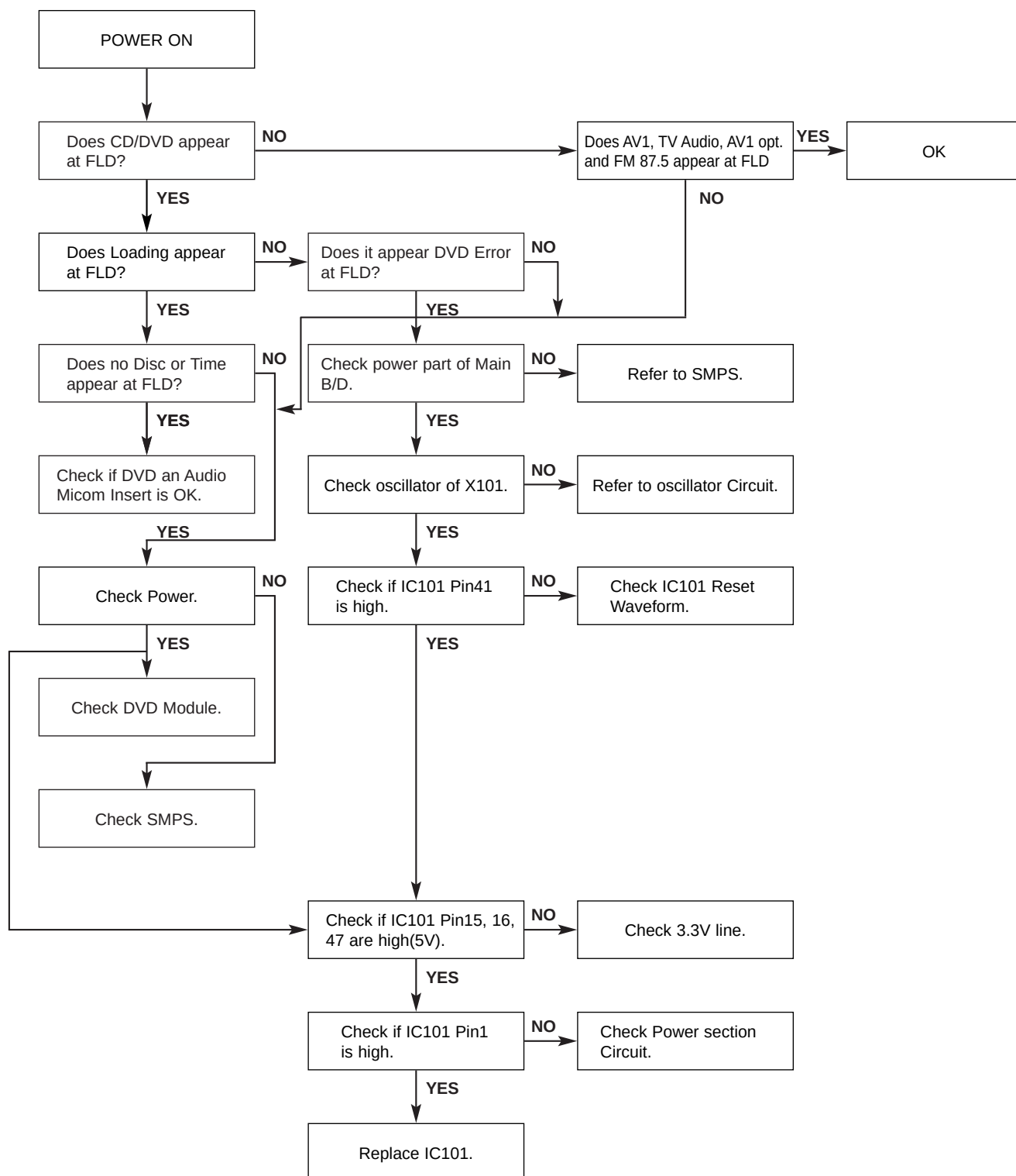








3. AUDIO μ -COM Circuit(DVD & AMP)



DETAILS AND WAVEFORMS ON SYSTEM TEST AND DEBUGGING

1. SYSTEM 27MHz CLOCK,RESET,FLASH R/W SIGNAL

1) ES8381 main clock is at 27MHz(X501)

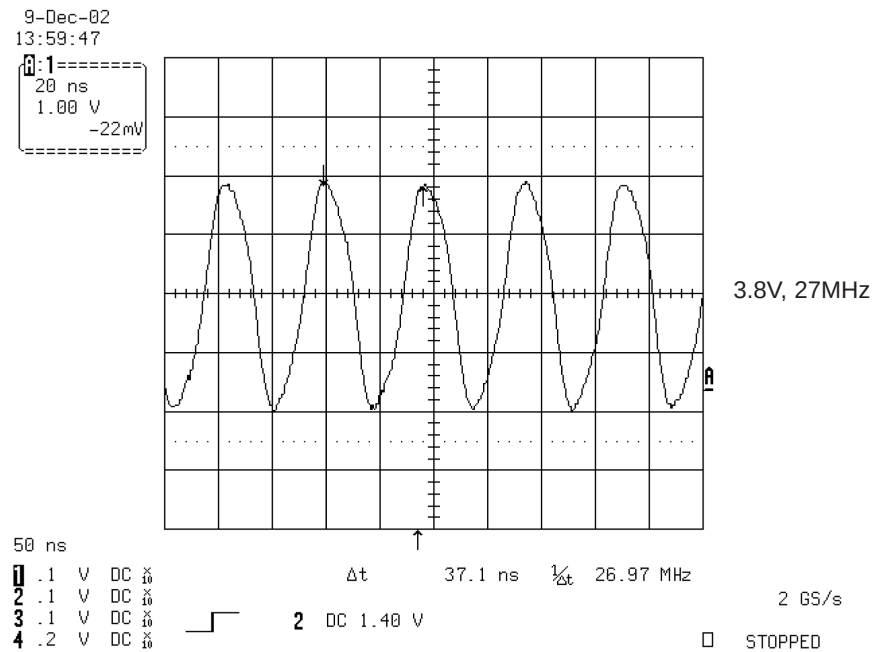


FIG 1-1

2) ES8381 reset is high active.

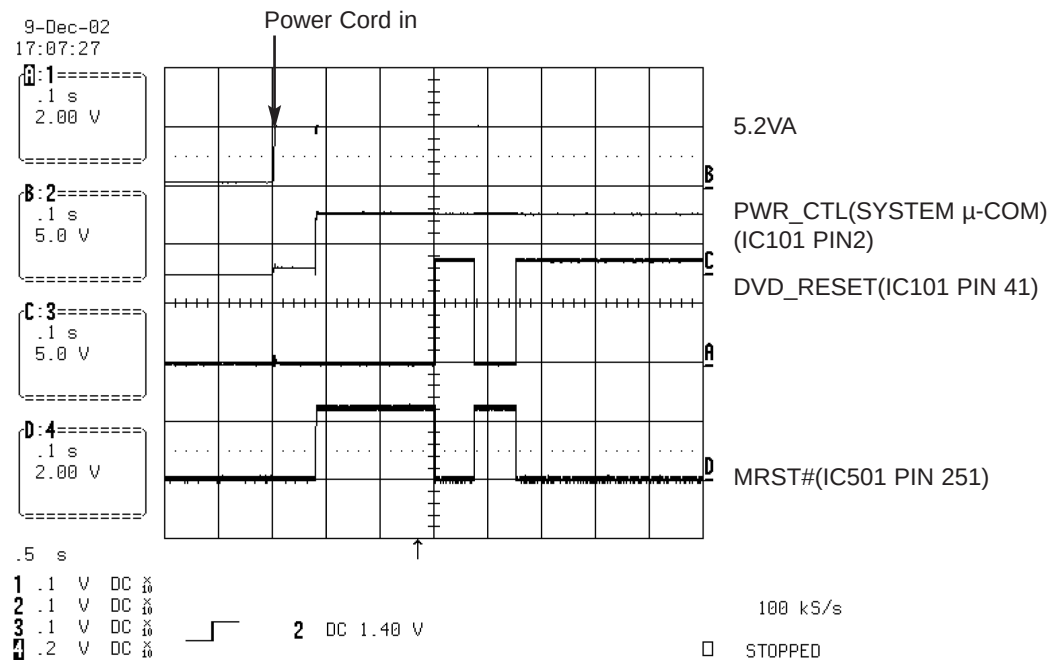


FIG 1-2

3) Flash R/W enable signal during download(Downloading)

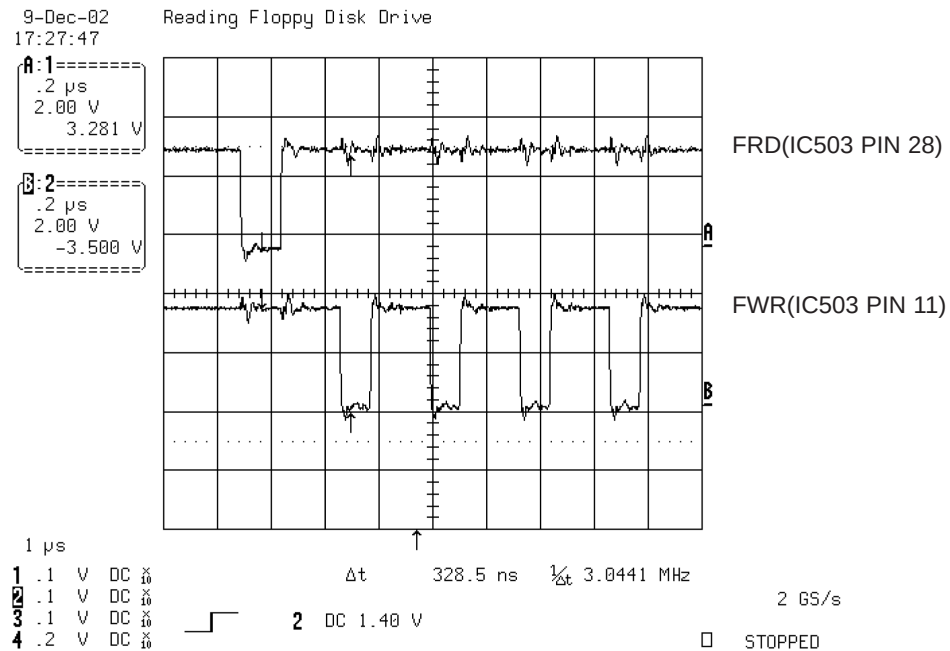


FIG 1-4

2. SDRAM CLOCK

1) ES8381 main clock is at 27MHz(X501)

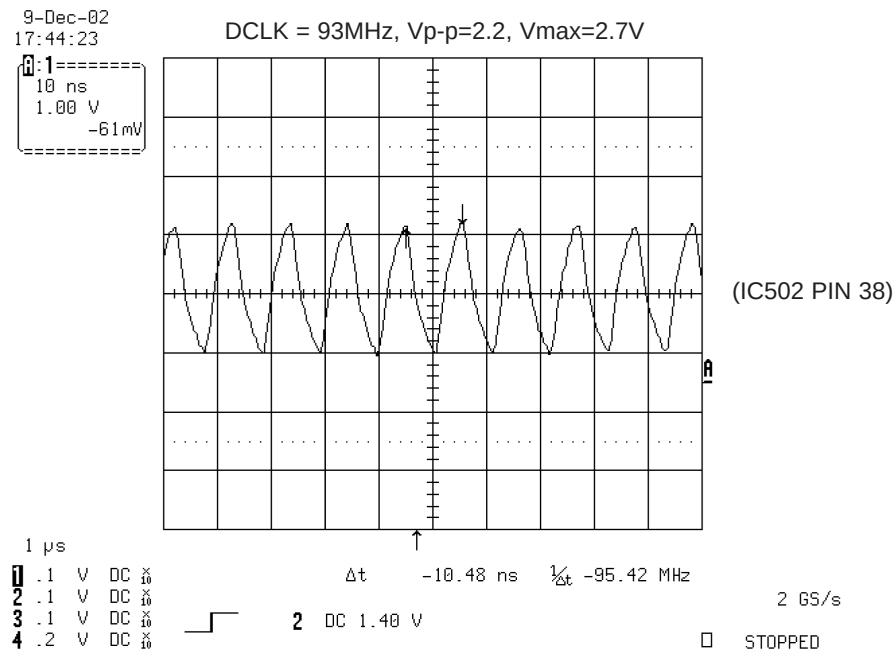


FIG 2-1

3. TRAY OPEN/CLOSE SIGNAL

1) Tray open/close waveform

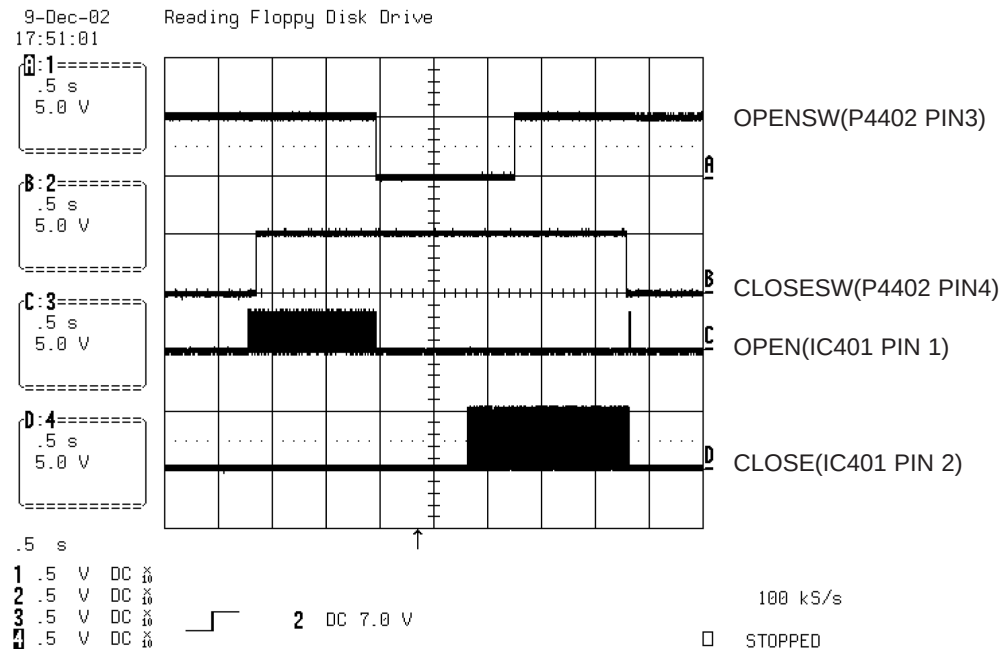


FIG 3-1

2) Tray close waveform

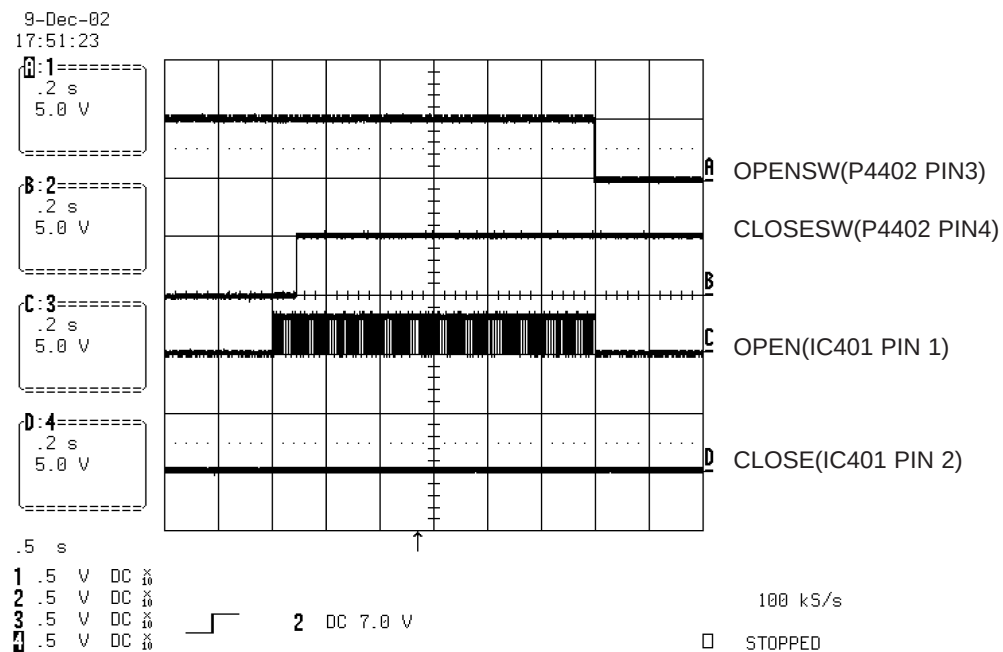


FIG 3-2

3) Tray open waveform

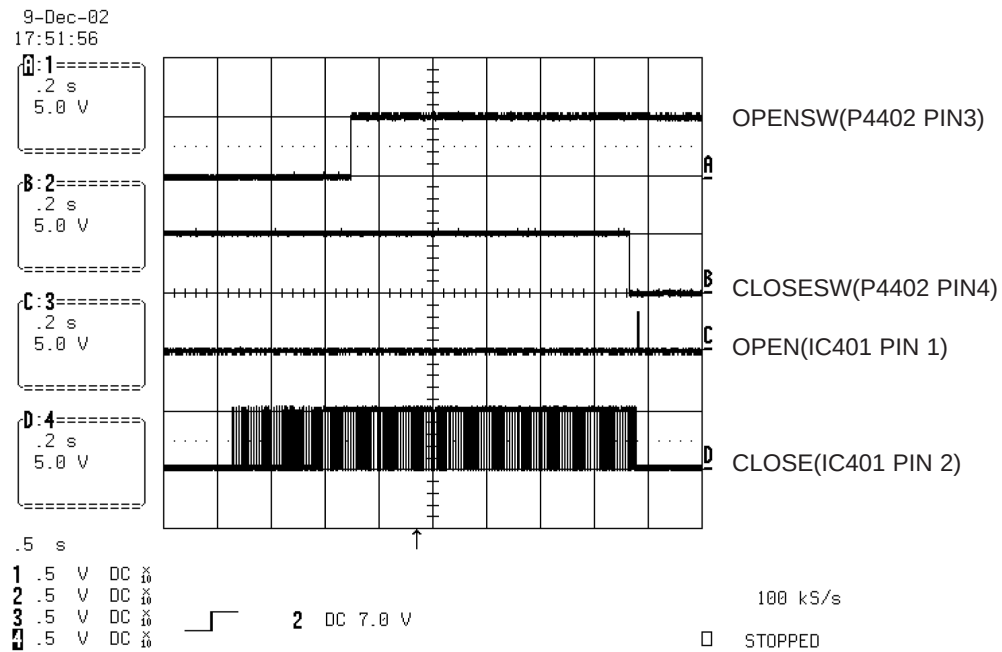


FIG 3-3

4. SLED CONTROL RELATED SIGNAL (NO DISC CONDITION)

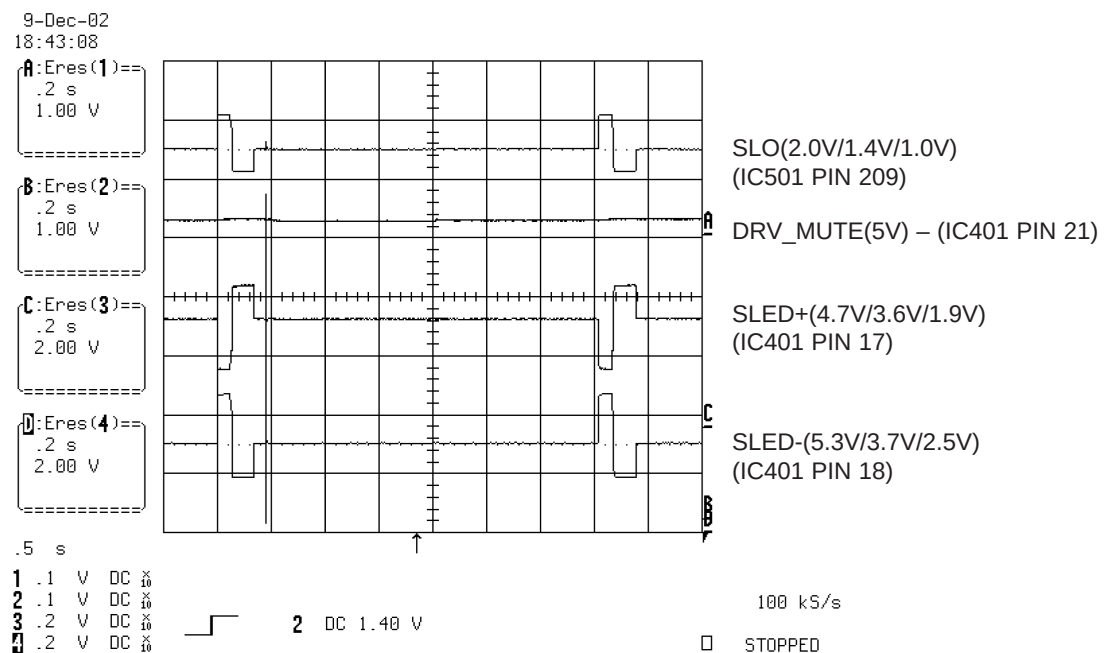


FIG 4-1

5. LENS CONTROL RELATED SIGNAL(NO DISC CONDITION)

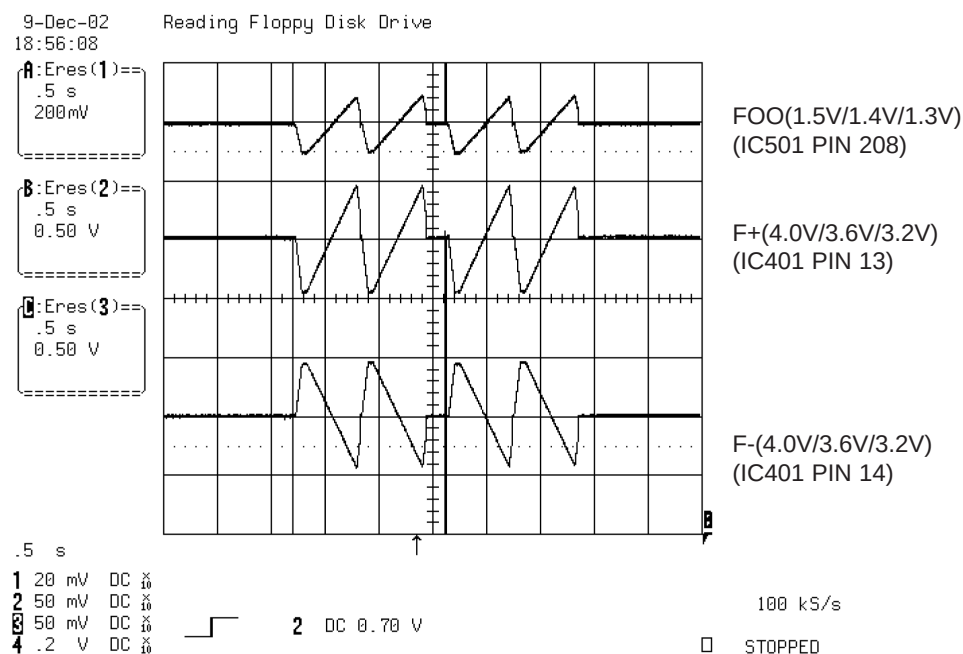


FIG 5-1

6. LASER POWER CONTROL RELATED SIGNAL(NO DISC CONDITION)

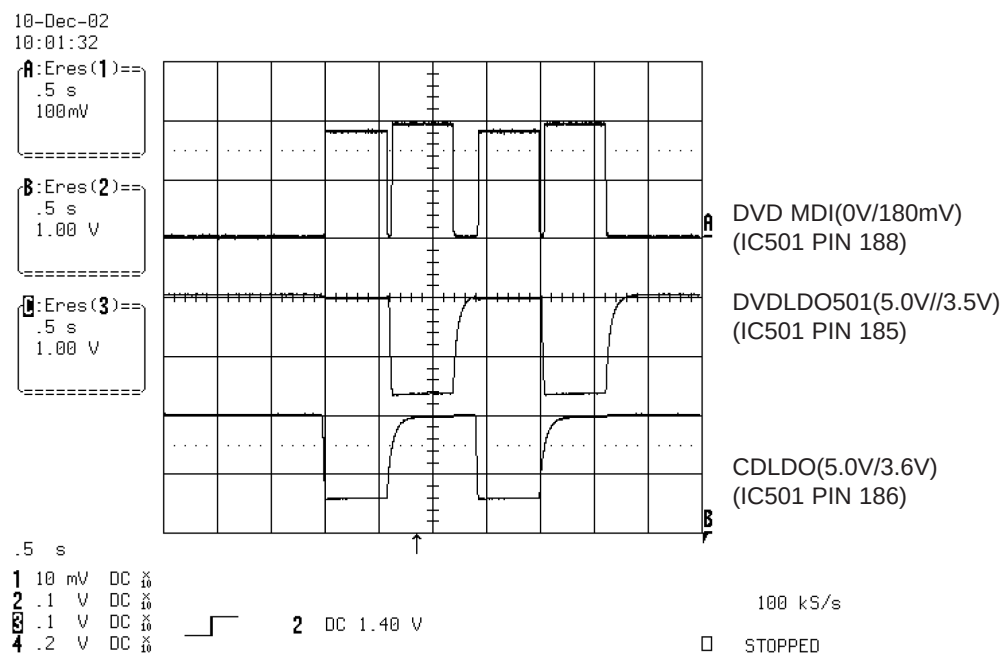


FIG 6-1

7. DISC TYPE JUDGEMENT WAVEFORMS

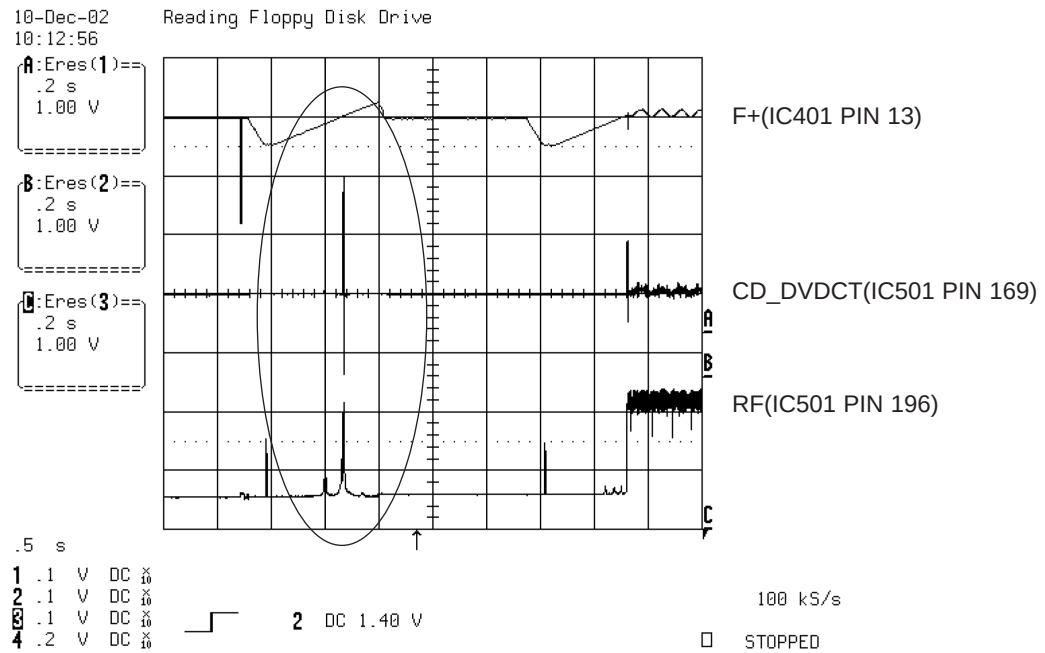


FIG 7-1 (DVD)

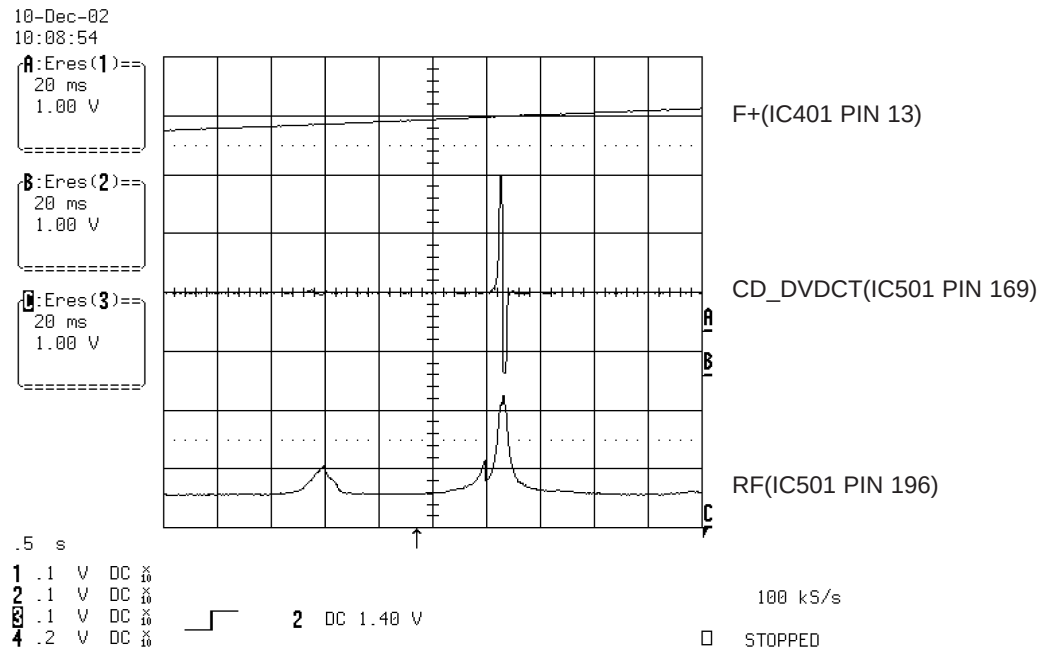


FIG 7-2 (DVD)

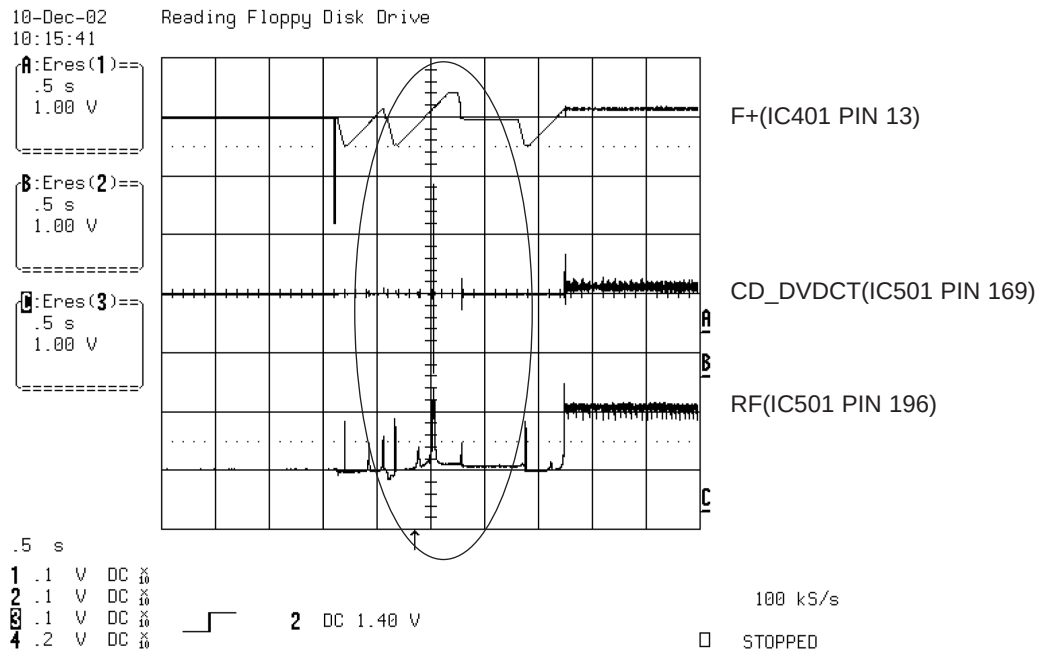


FIG 7-3 (CD)

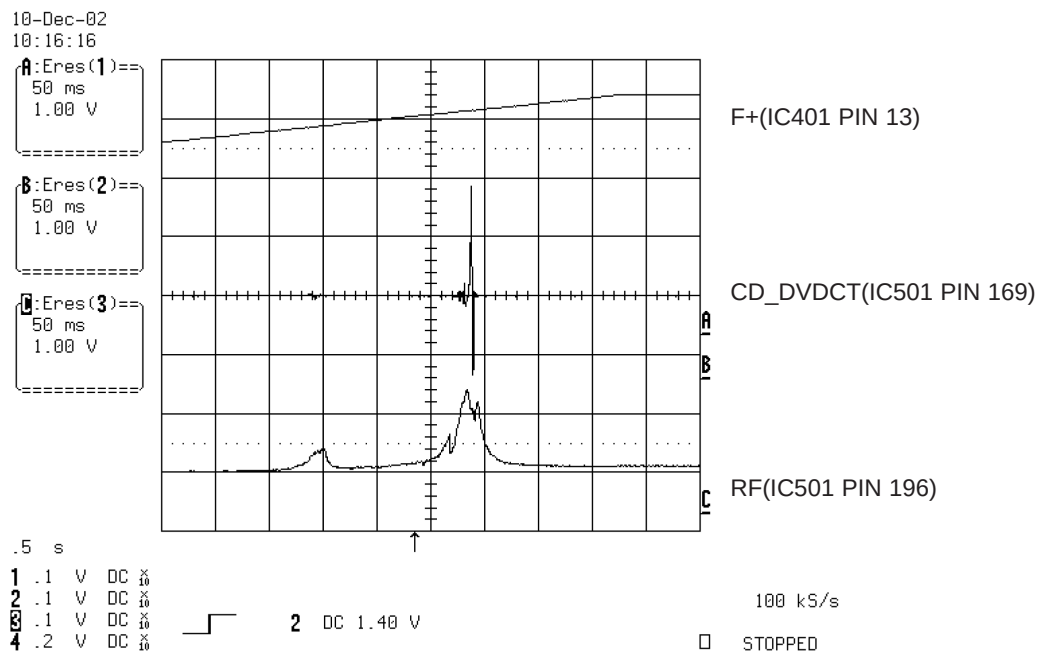


FIG 7-4 (CD)

8. FOCUS ON WAVEFORMS

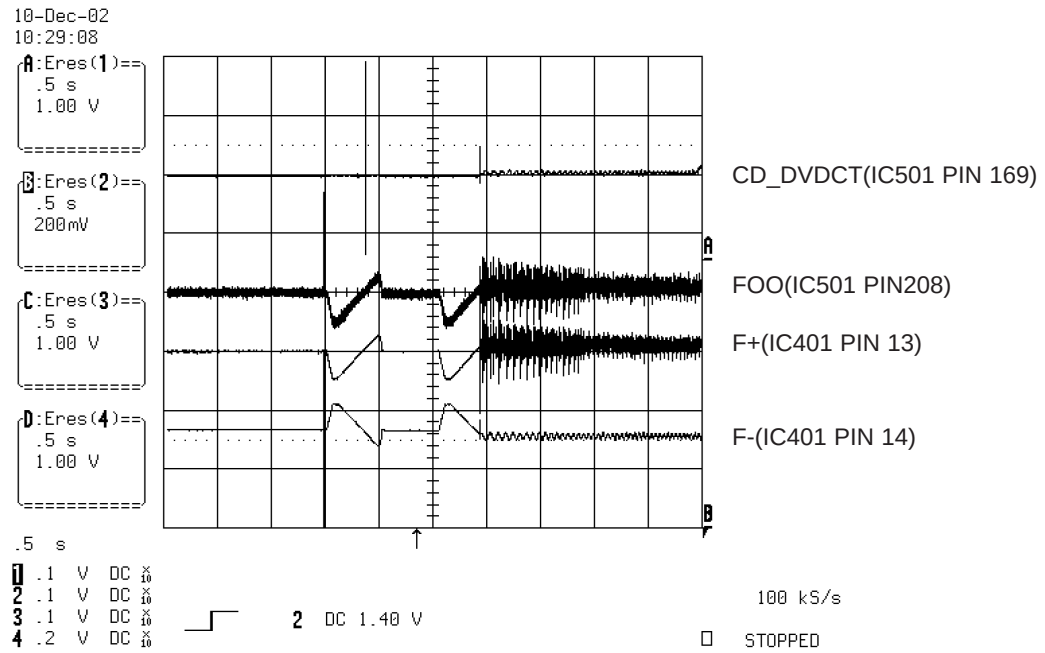


FIG 8-1 (DVD)

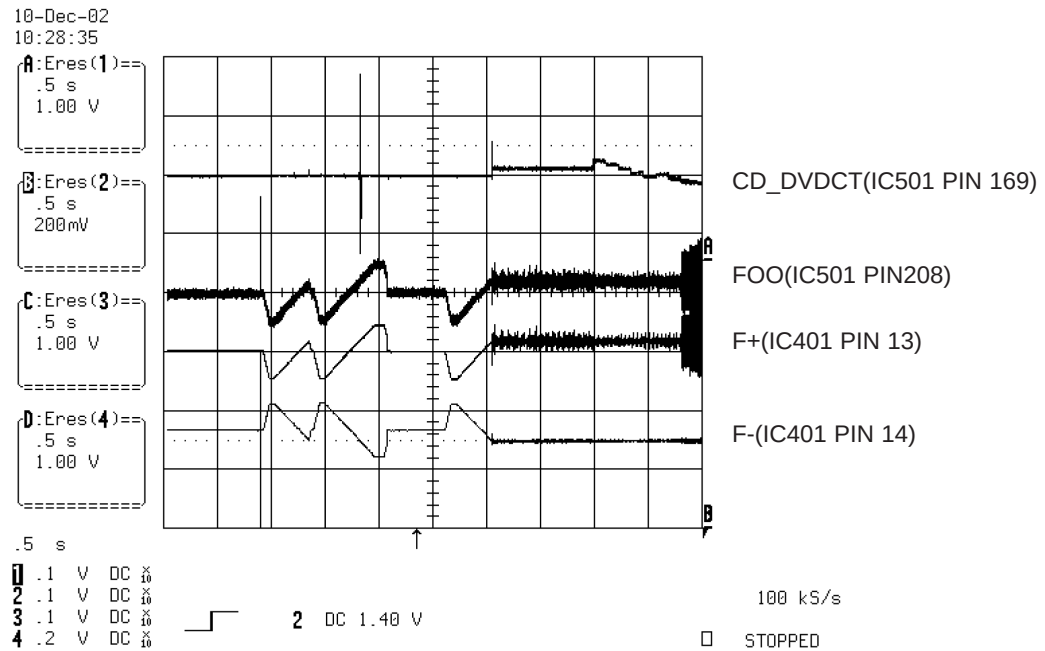


FIG 8-2 (CD)

9. SPINDLE CONTROL WAVEFORMS (NO DISC CONDITION)

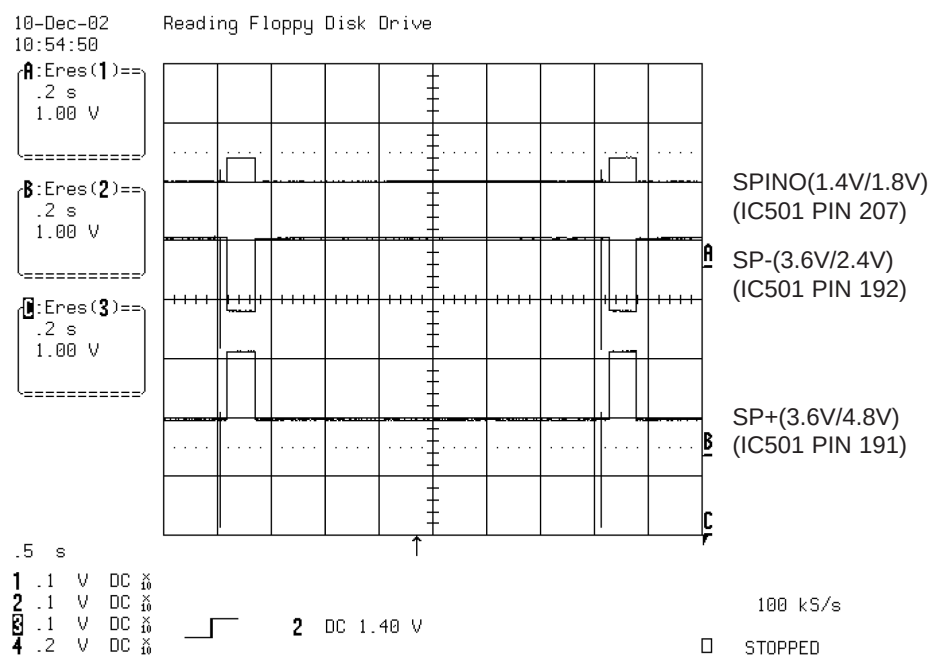


FIG 9-1

10. TRACKING CONTROL RELATED SIGNAL(System checking)

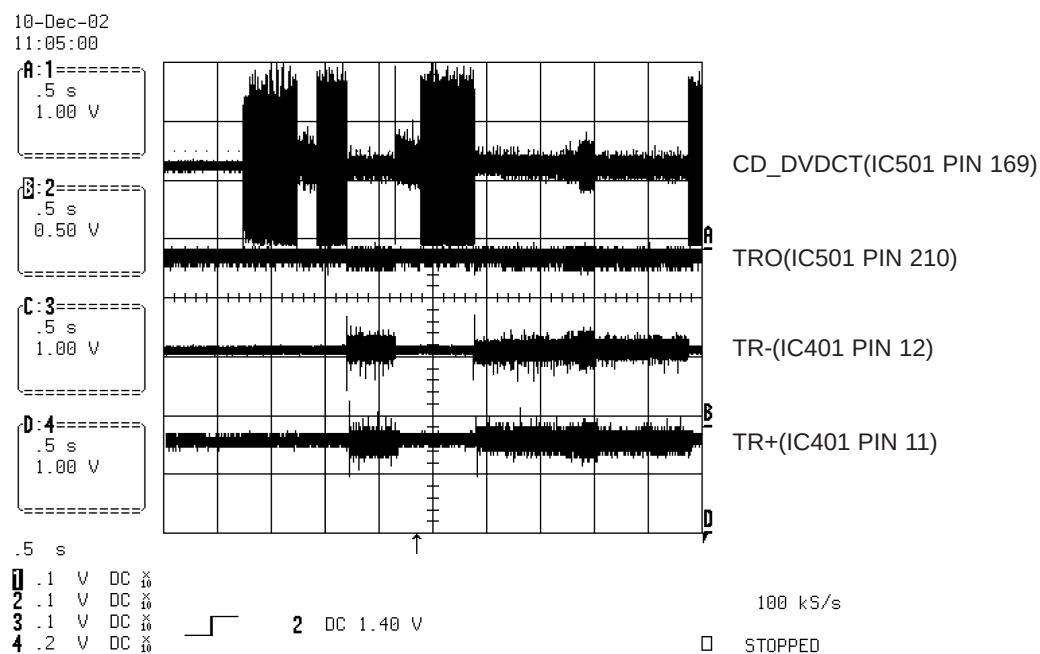


FIG 10-1(DVD)

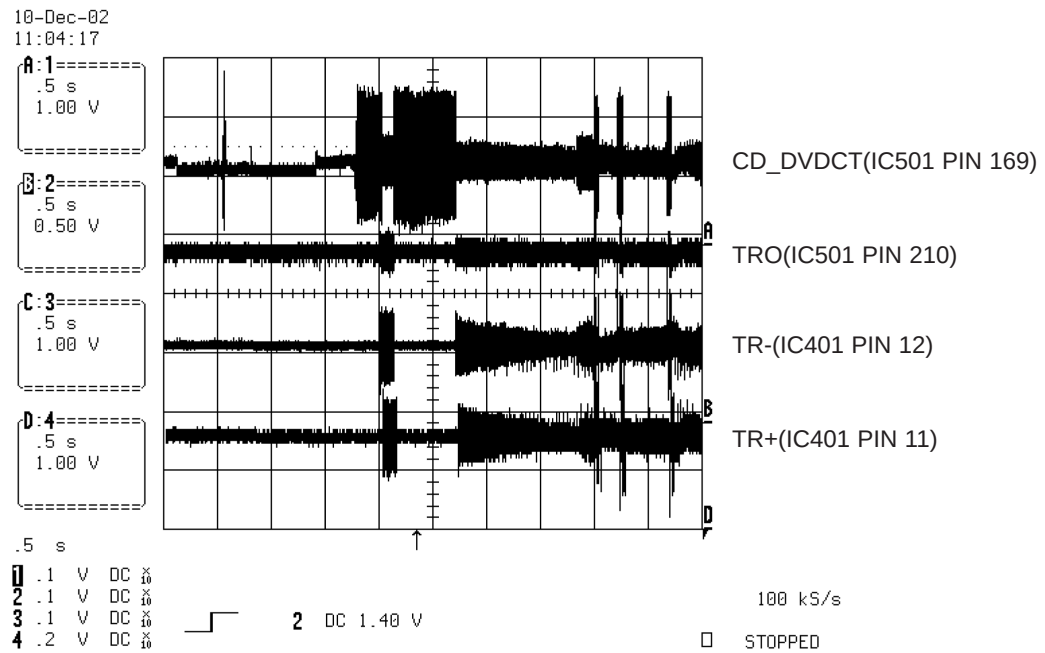


FIG 10-2(CD)

11. ES6698FD VIDEO OUTPUT WAVEFORMS

1) Full colorbar signal(COMPOSIT)

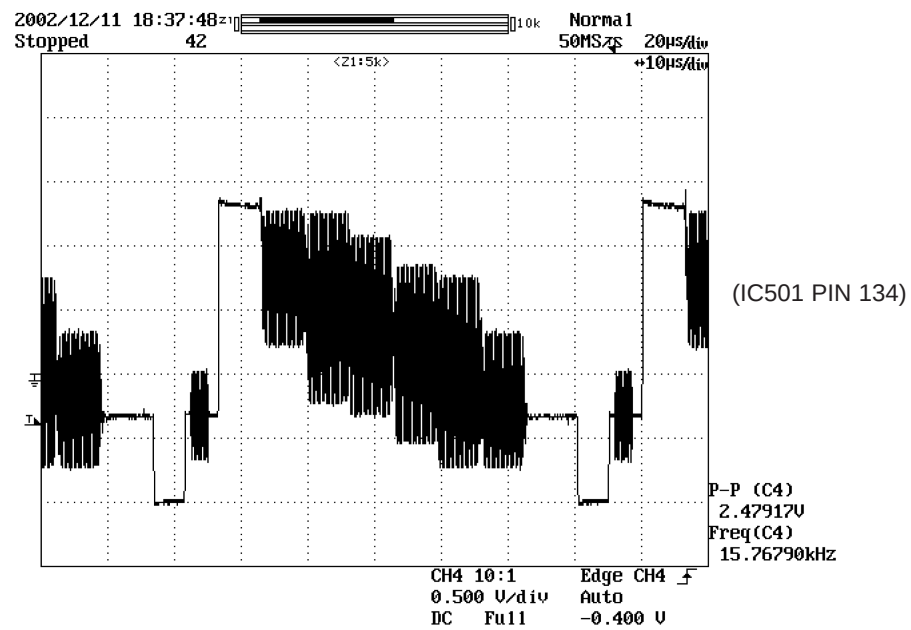


FIG 11-1

2) Y

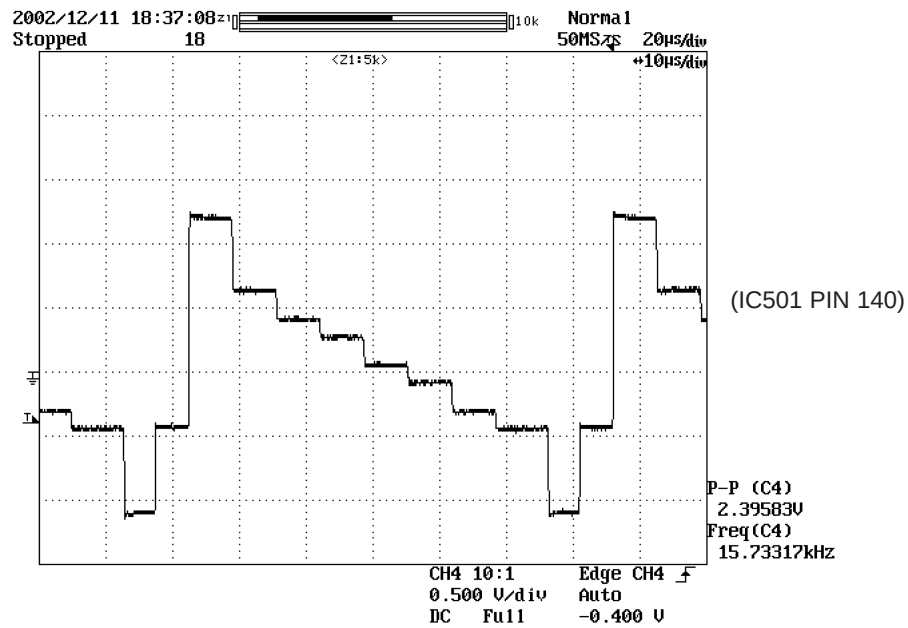


FIG 11-2

12. AUDIO OUTPUT FROM PWM IC

1) Audio L/R

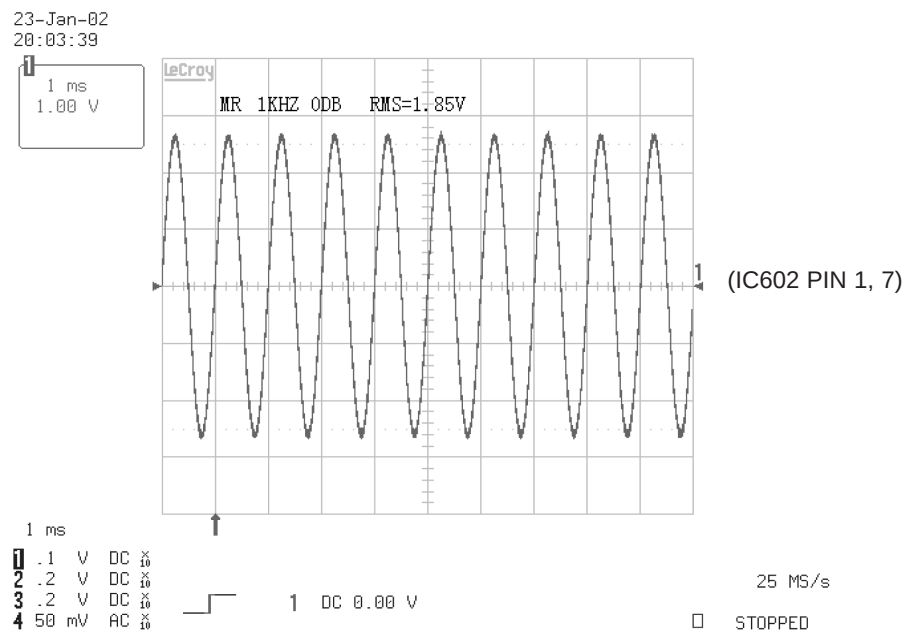


FIG 12-1

2) Audio related Signal

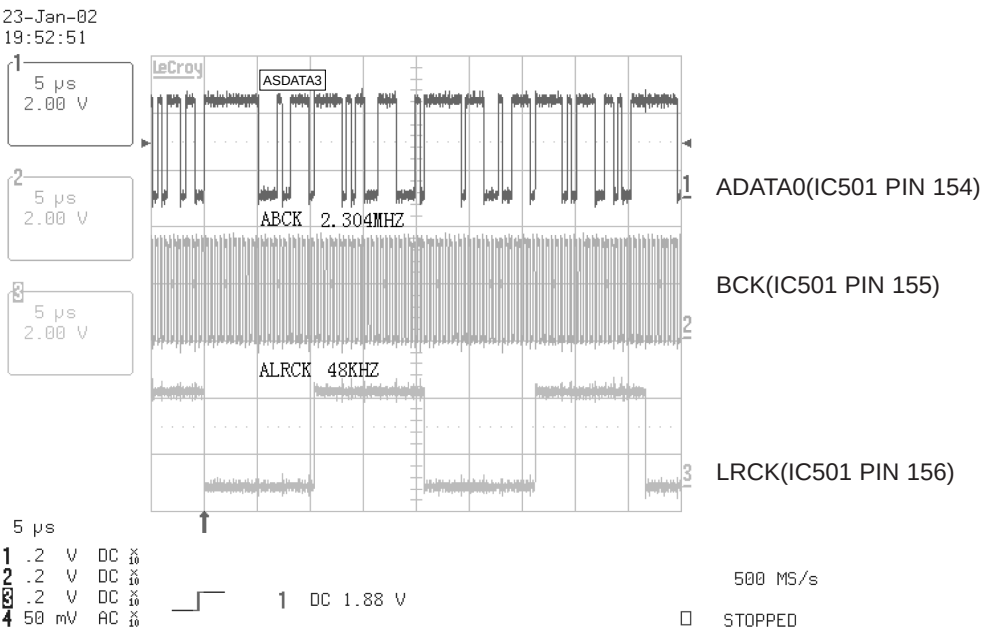
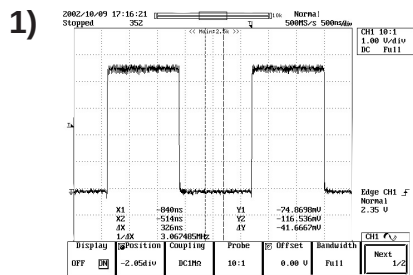
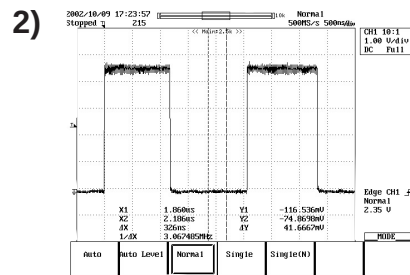


FIG 12-2

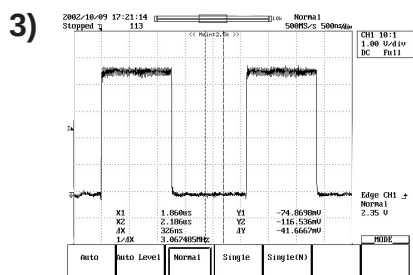
13. DVD & AMP WAVEFORMS



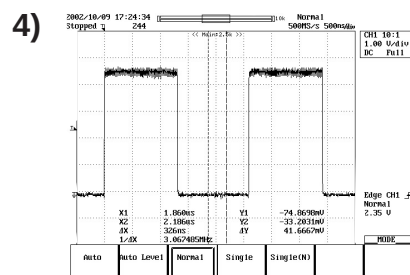
- R620 → TP611
or
R621 TP612



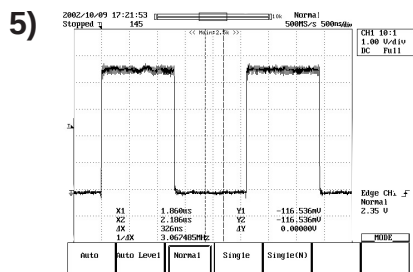
- R618 → TP609
or
R619 TP610



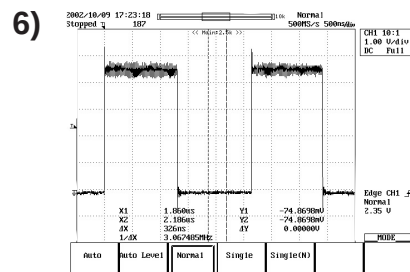
- R612 → TP603
or
R613 TP604



- R610 → TP601
or
R611 TP602



- R614 → TP605
or
R615 TP606



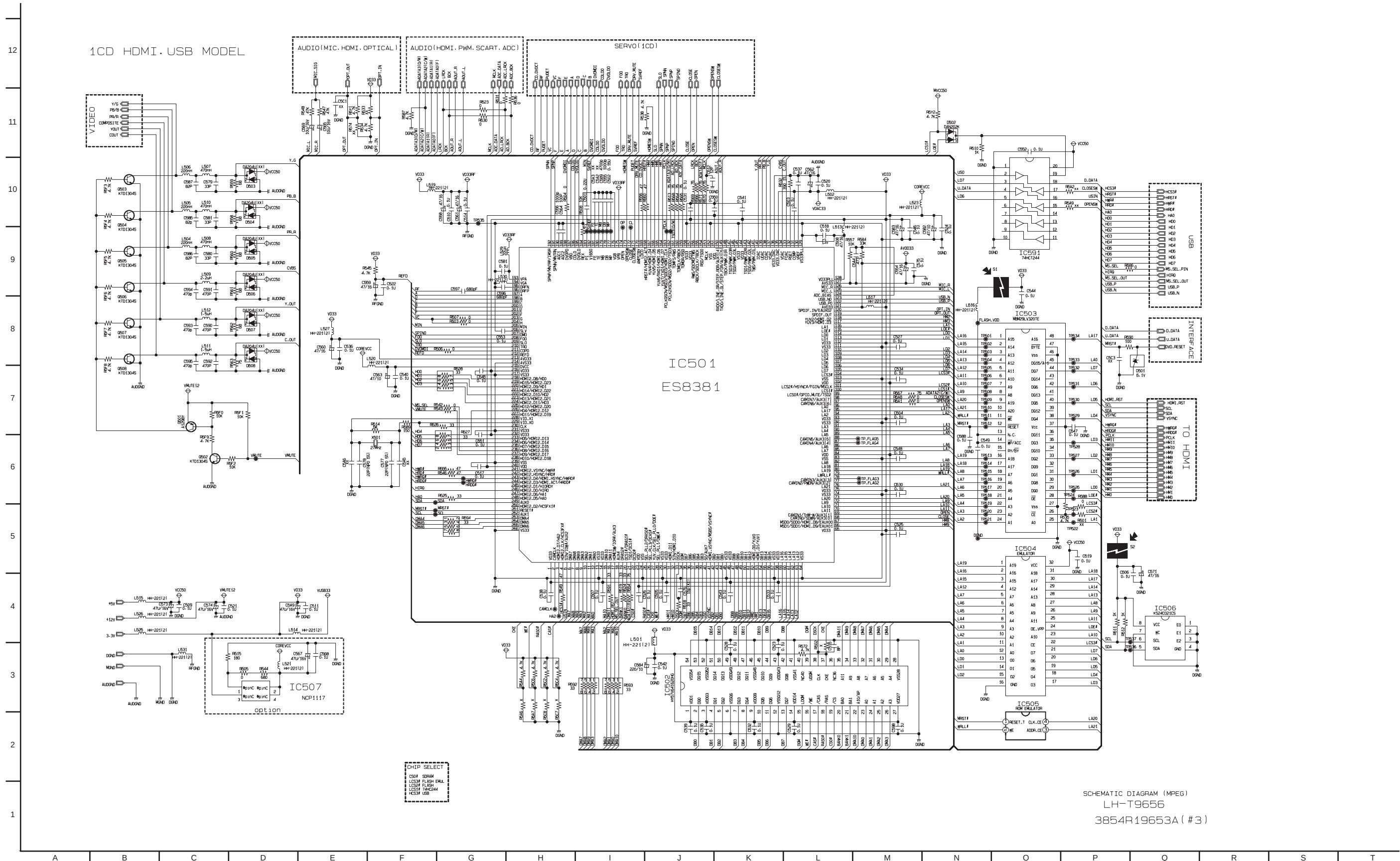
- R616 → TP607
or
R617 TP608

MEMO

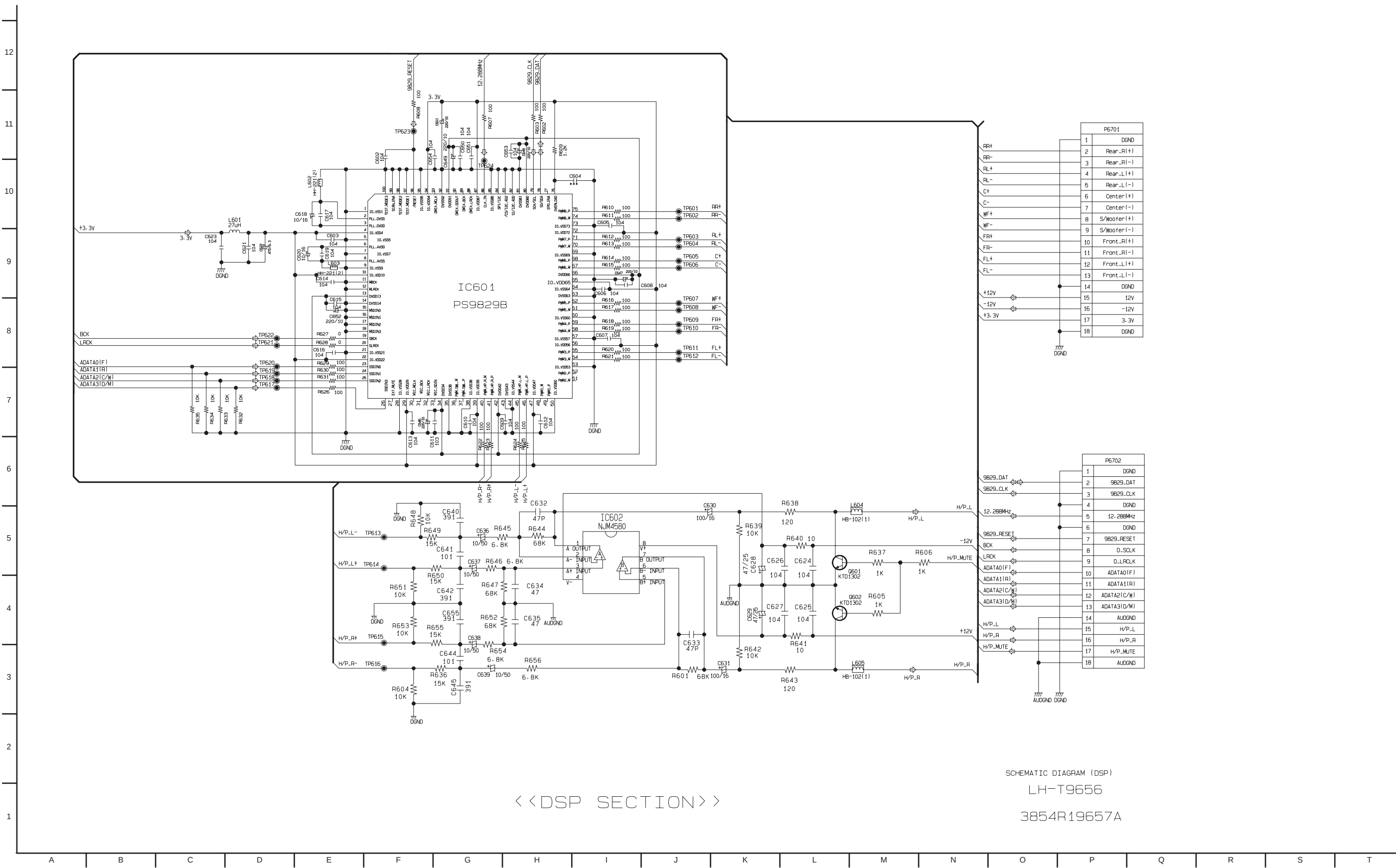
Handwriting practice lines consisting of 28 horizontal dotted lines.

DVD & AMP CIRCUIT DIAGRAMS

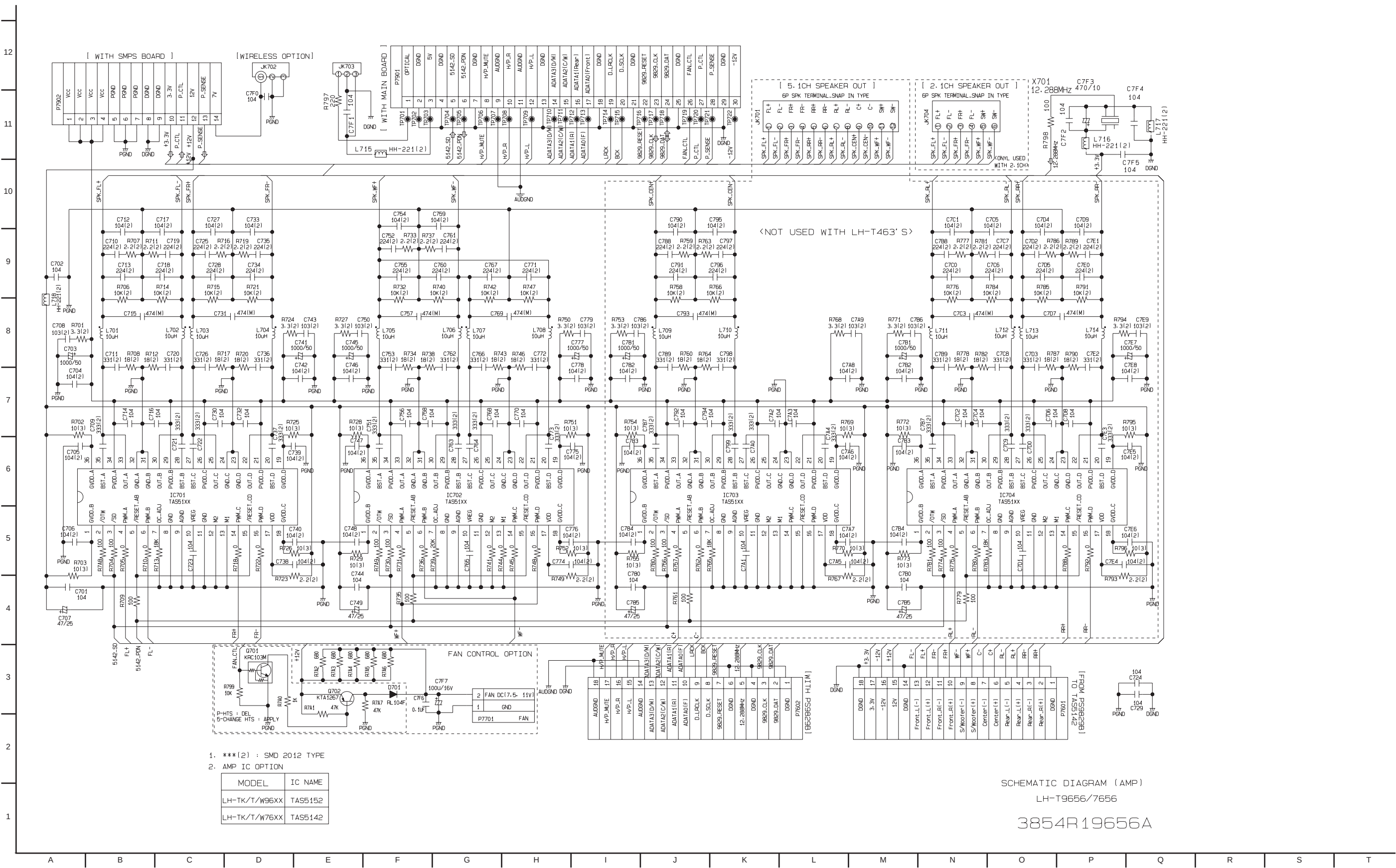
1. MPEG CIRCUIT DIAGRAM



2. DSP CIRCUIT DIAGRAM



3. AMP CIRCUIT DIAGRAM

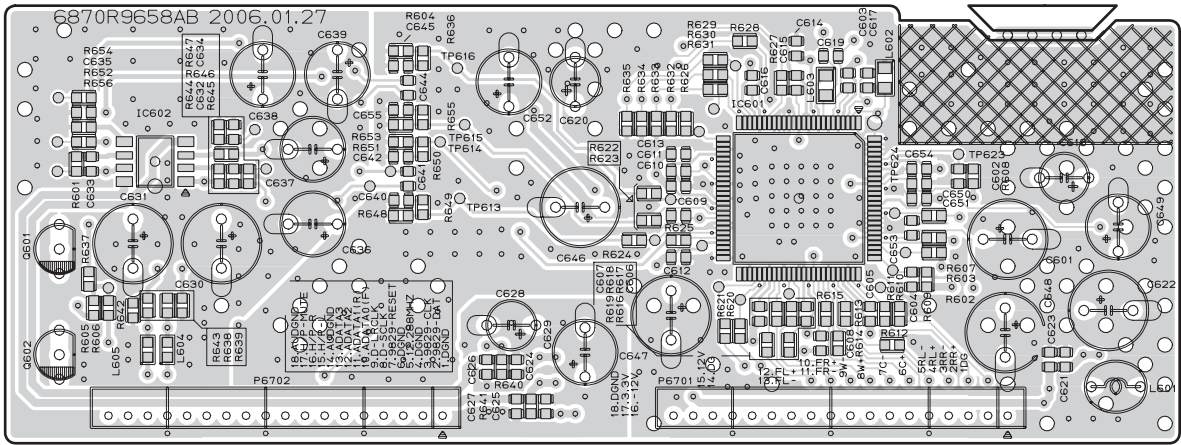


SCHEMATIC DIAGRAM (AMP)
LH-T9656/7656

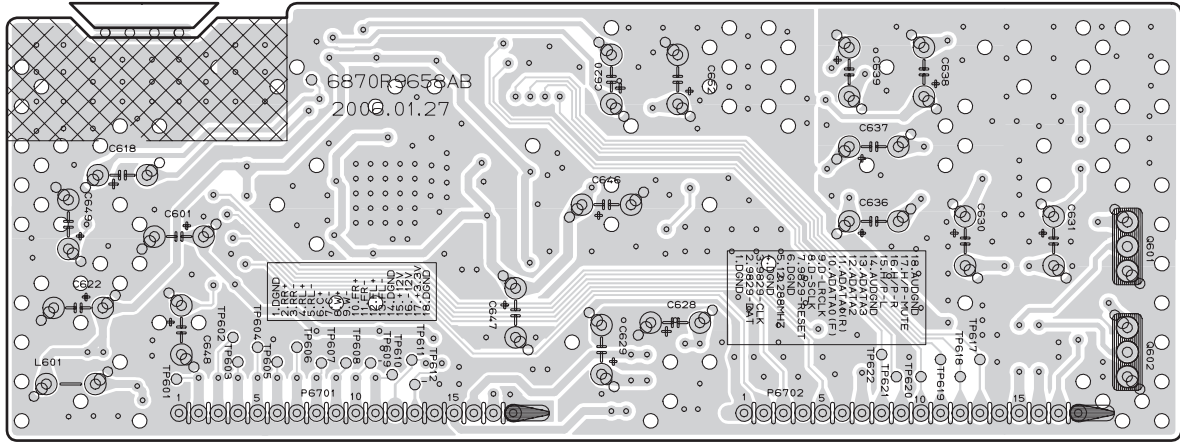
3854R19656A

PRINTED CIRCUIT BOARD DIAGRAMS

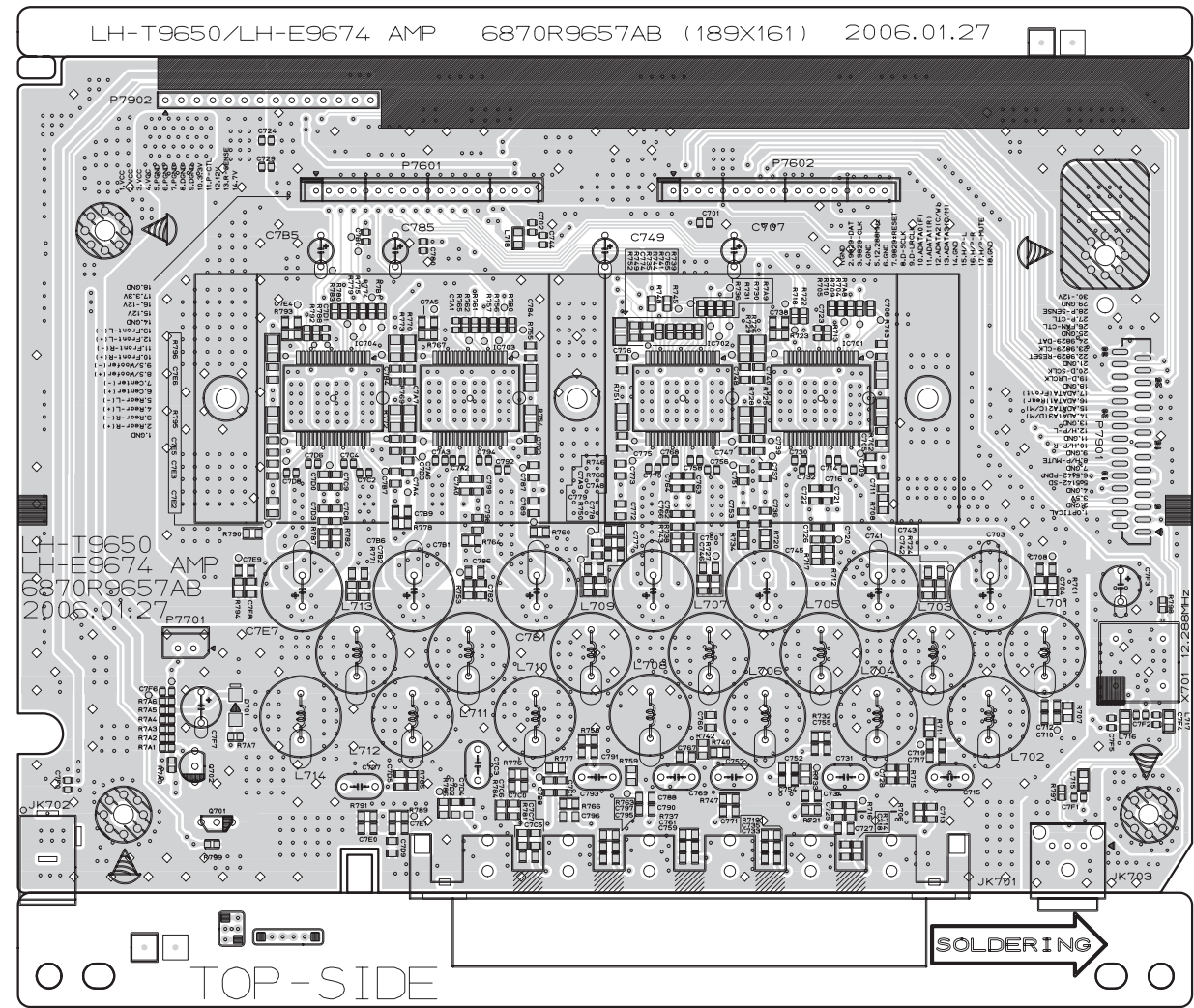
1. DSP P.C. BOARD DIAGRAM
(TOP VIEW)



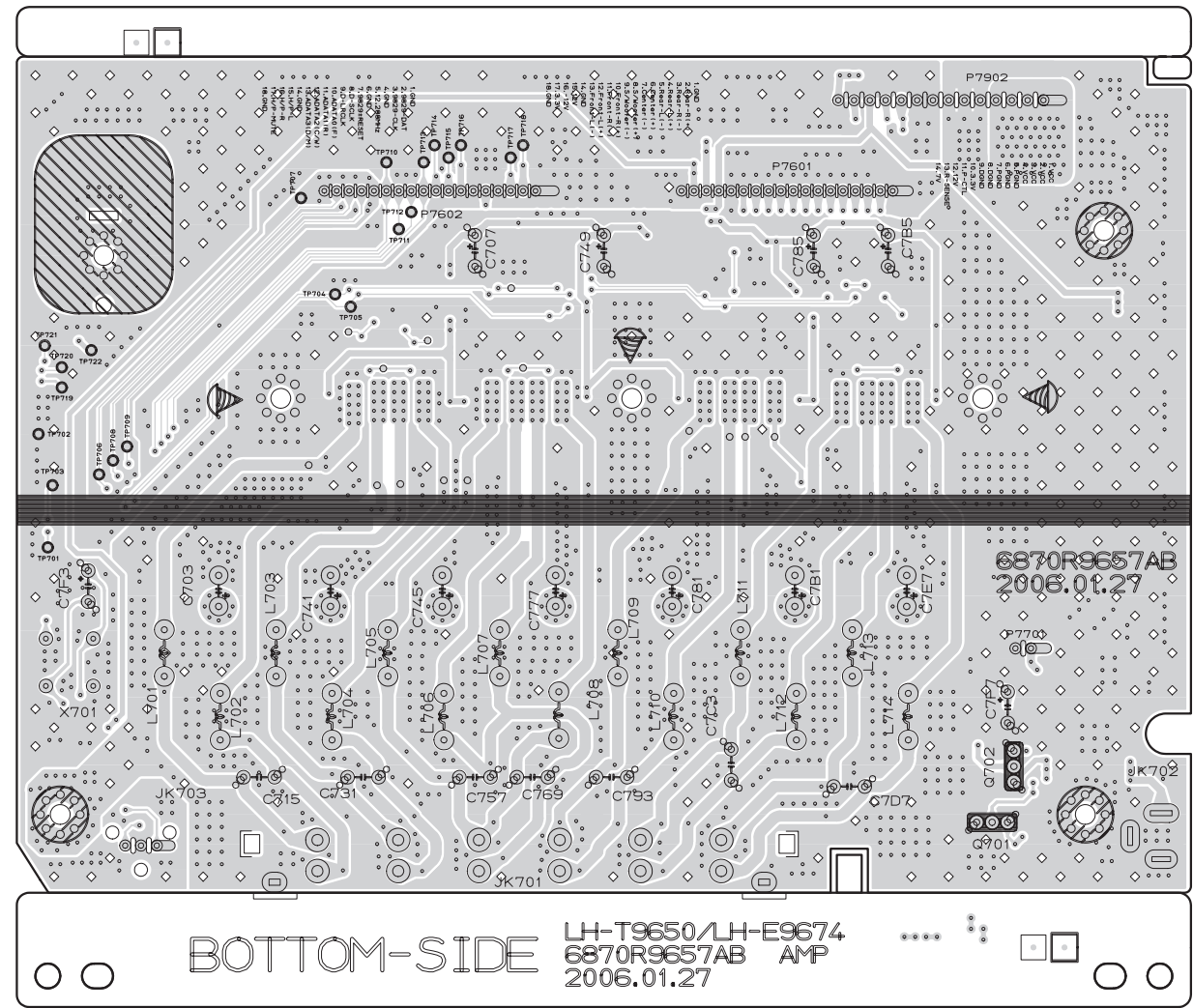
(BOTTOM VIEW)



2. AMP P.C. BOARD DIAGRAM
(TOP VIEW)

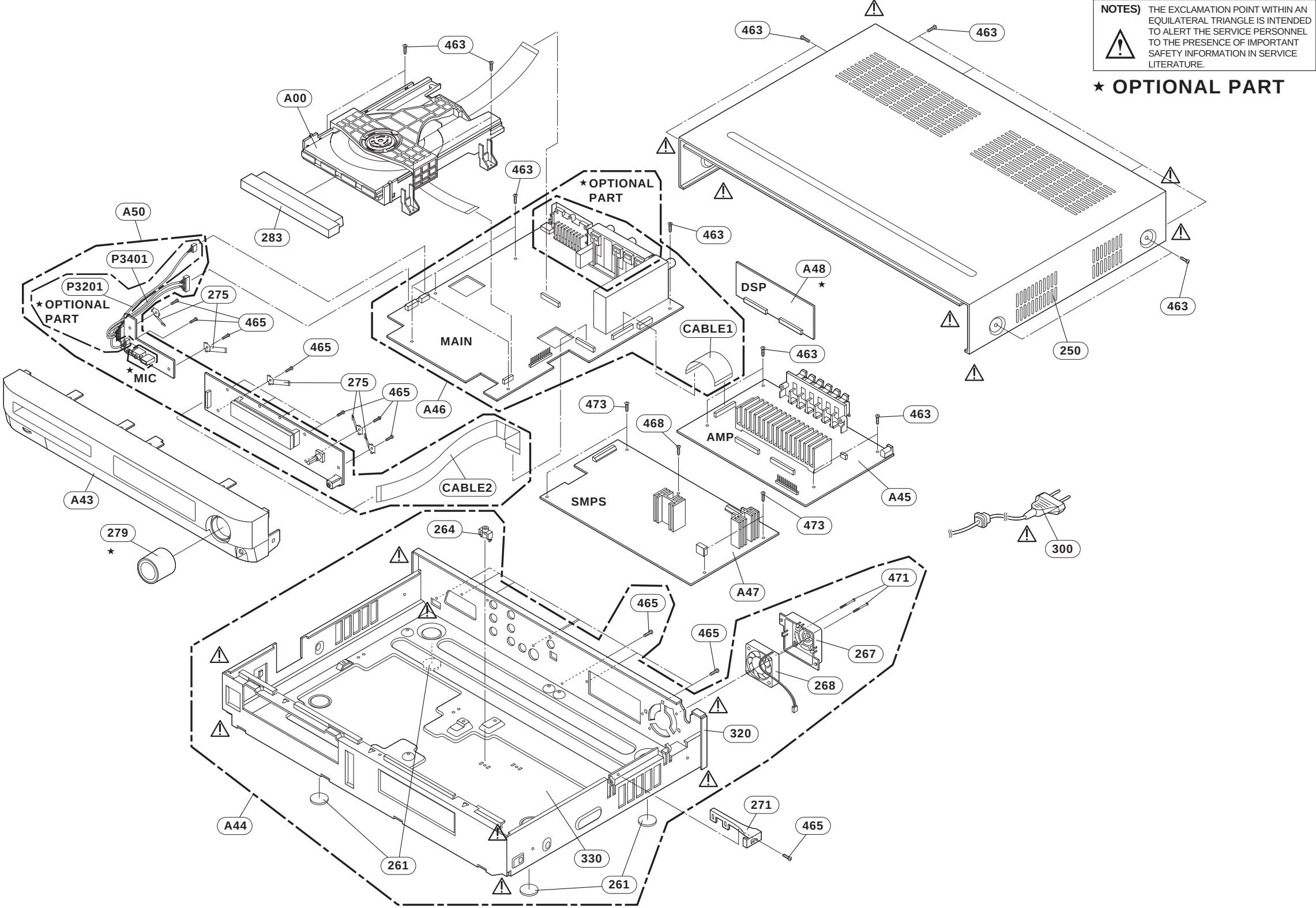


(BOTTOM VIEW)

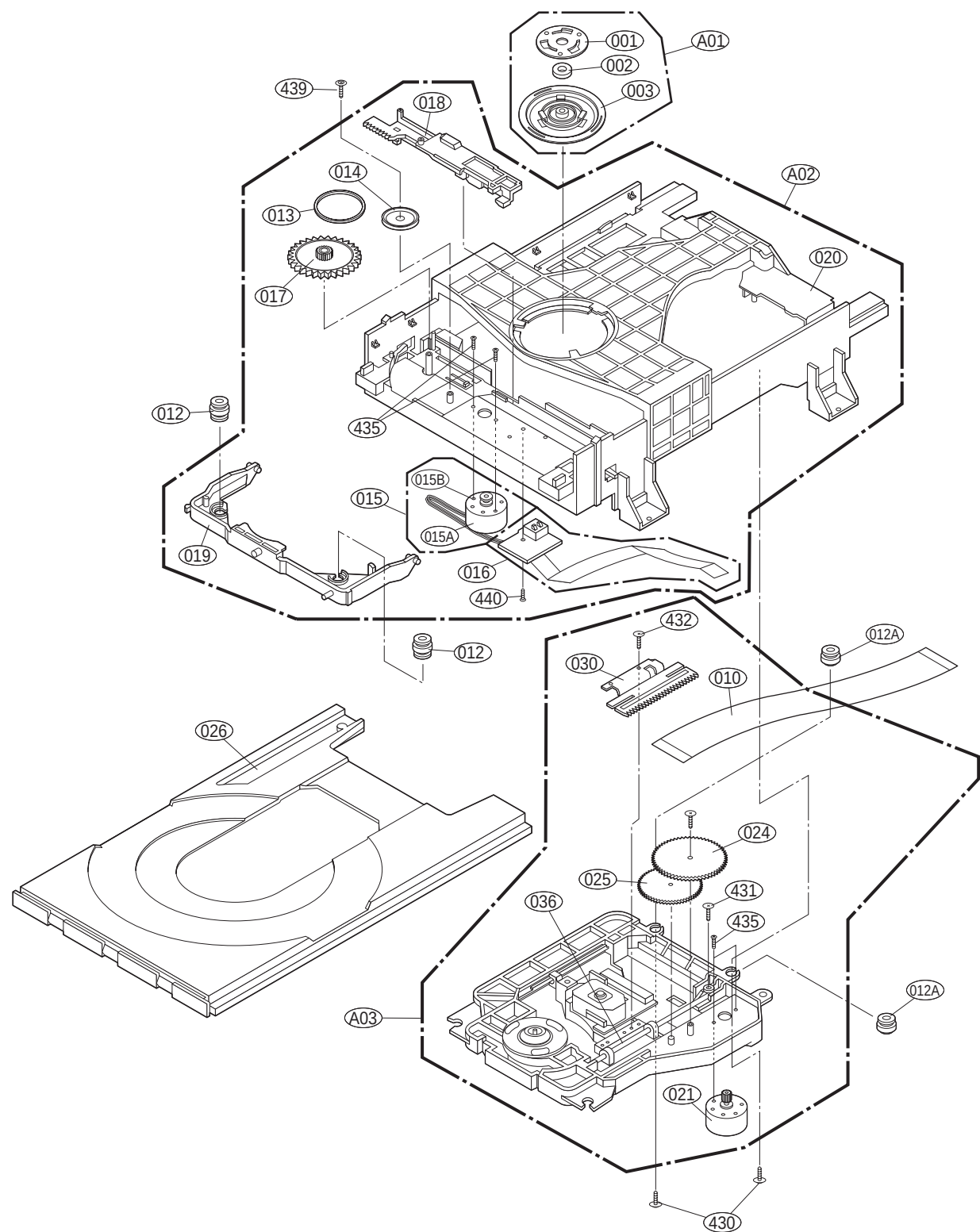


SECTION 4. EXPLODED VIEWS

• CABINET AND MAIN FRAME SECTION



• DECK MECHANISM EXPLODED VIEW(DP-10T)



LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
A00	6721RJD100E	Deck Assembly,DVD	HOME THEATER DP-10T(HZ) ESS SS	
A01	4861R-0016B	Clamp Assembly	DISC DP7 - SH	
A02	3041R-T010A	Base Assembly	DP-10T LOADING	
A03	3041R-T011B	Base Assembly	SLED DP-10T(HZ) ESS SS-DL3G	
001	3300R-0547A	Plate	PRESS STS 301 T0.3 CLAMP	NSP
002	5016H-1016B	Magnet	CLAMP(LDM-R608,10*5,1*1.5T)	NSP
003	4860R-0021A	Clamp	MOLD POM UPPER DP7	NSP
010	6850R-JW14D	Cable,FFC	LH-TK3602 140MM 1.00MM - WHITE	
012	5040R-0083A	Damper	CUTTING RUBBER DVD DP-6, DP-8	
012A	5040R-0110A	Damper	CUTTING RUBBER DVD REAR DP8 RI	
013	4400R-0006B	Belt	MOLD RUBBER DECK/MECHA DP2-5,	
014	4470R-0154A	Gear	MOLD POM DECK/MECHA DP8 PULLE	
015	4681R-A015A	Motor,Unclassified	DECK/MECHA LOADING DP-9 SH	
015A	4680R-E008A	Motor,DC	RF-300EA-1D390 2V 90MA 25MA 1.	
015B	4560R-0008A	Pulley	MOLD POM MOTOR	
016	6871R-9297A	PCB Assembly	DP-10T LOADING/FEEDING	
017	4470R-0176A	Gear	MOLD POM DVD DP-9 LOADING MO	
018	4974R-0067A	Guide	MOLD POM DVD DP-9C UP/DOWN MO	
019	3210R-M008A	Frame	MOLD ABS DP-9C UP/DOWN MOLD	
020	3040R-M066A	Base	MOLD ABS MAIN DP-9T MOLD	NSP
021	4681R-B009C	Motor,Unclassified	DECK/MECHA DP-10 FEEDING	
024	4470R-0179A	Gear	MOLD POM DVD DP-9 PINION MOL	
025	4470R-0178A	Gear	MOLD POM DVD DP-9 MIDDLE MOLD	
026	3390R-0033A	Tray	MOLD ABS DVD DP-9T(9T-SLIM) D	
030	4470R-0180A	Gear	MOLD POM DVD DP-9 RACK MOLD	
036	4370R-0136A	Shaft	CUTTING STS 301 DVD PU, DR-02	
430	1SZZR-0064B	Screw,Customzied	- + 1.7MM 7MM SWRCH FZB	
431	1SZZR-0062A	Screw,Customzied	- + 1.7MM 4.5MM SWRCH NI PLT	
432	1SZZR-0072A	Screw,Customzied	- + 1.7MM 4.5MM SWRCH FZY	
435	1SZZR-0011A	Screw,Customzied	MACHINE	
439	1SZZR-0075A	Screw,Customzied	- + 1.7MM 10MM SWRCH FZW	
440	1SZZH-1007B	Screw,Customzied	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	

MEMO

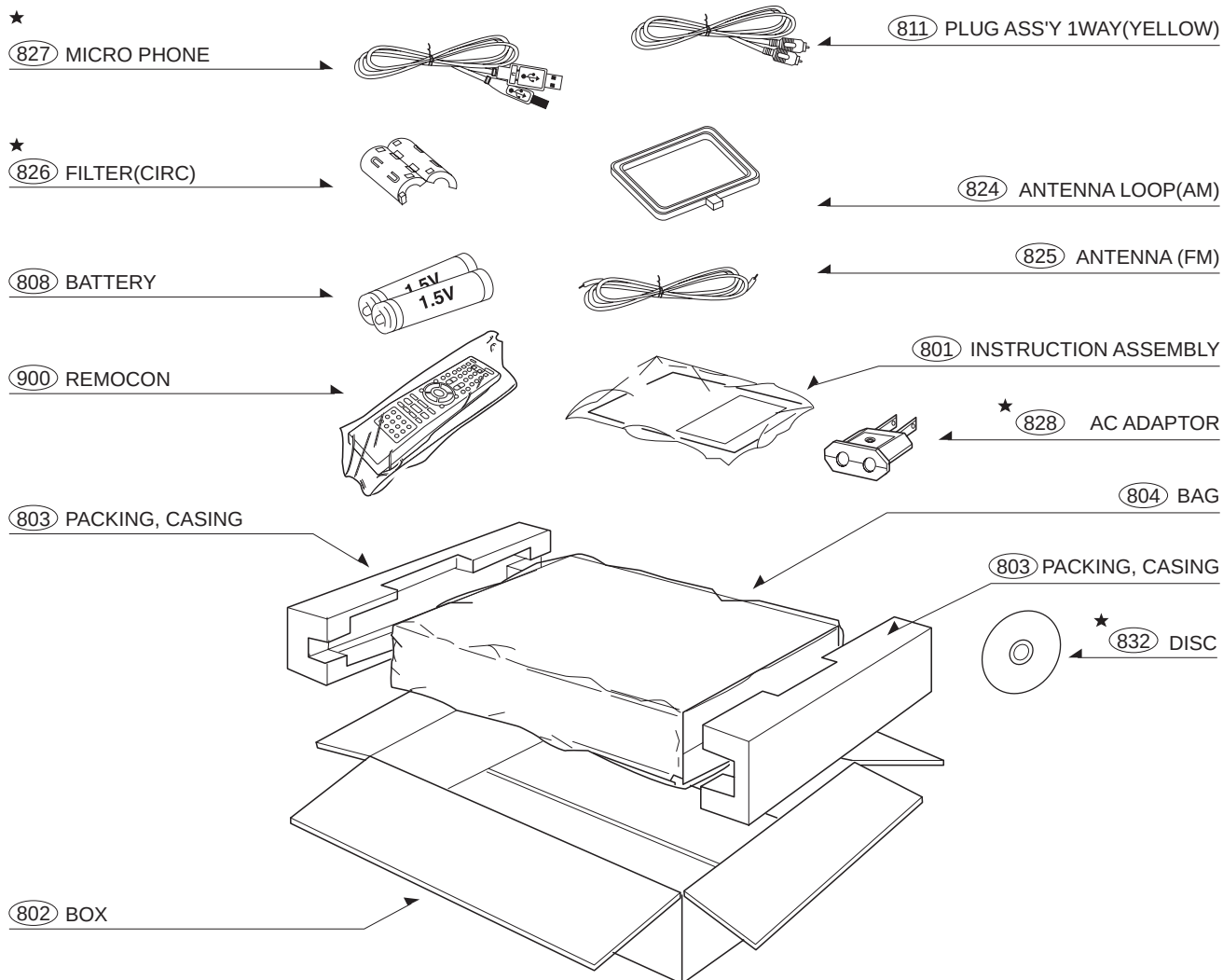
Handwriting practice area with 25 horizontal dotted lines.

MEMO

Handwriting practice area with 25 horizontal dotted lines.

• Packing Accessory Section

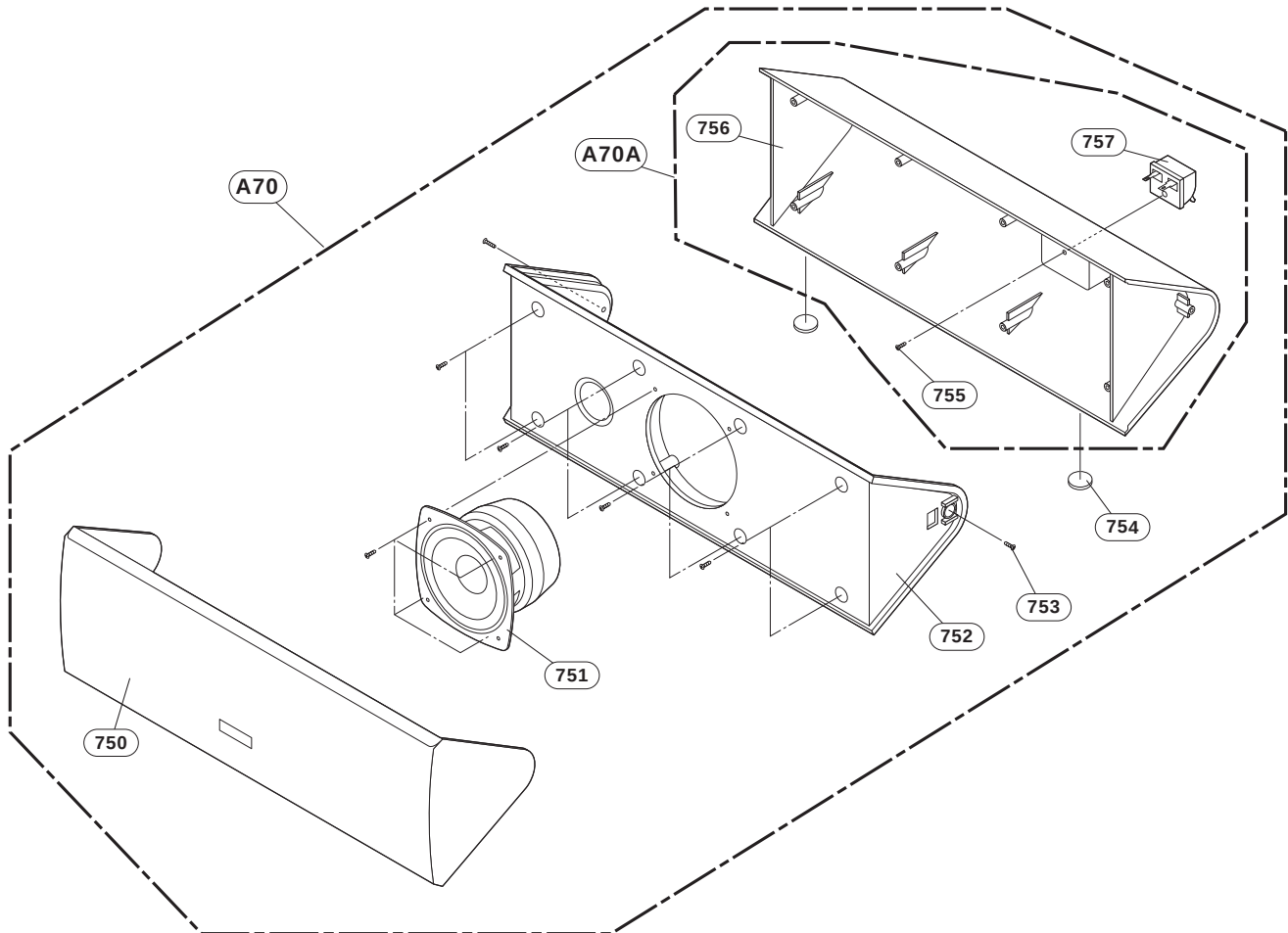
★ OPTIONAL PART



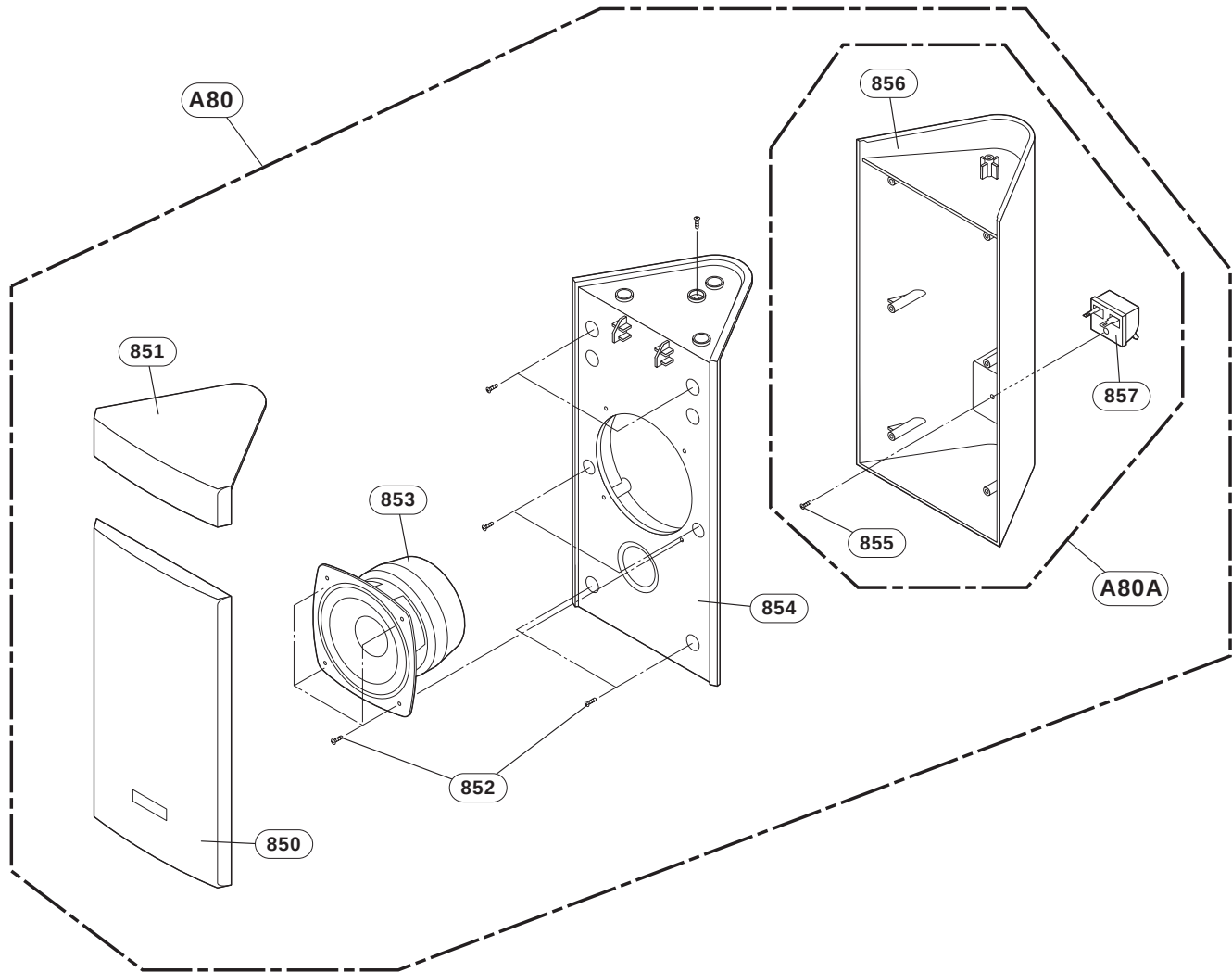
SECTION 5. SPEAKER SECTION

1. LHS-76SB

• CENTER SPEAKER(LHS-76SBC)



• FRONT/REAR SPEAKER(LHS-76SBS)



• PASSIVE SUBWOOFER SPEAKER(LHS-76SBW)

