



SERVICE MANUAL

MODEL : LAC3700

CAR CD/MP3/WMA RECEIVER SERVICE MANUAL

MODEL : LAC3700

CAUTION
BEFORE SERVICING THE UNIT, READ THE "SAFETY PRECAUTIONS"
IN THIS MANUAL.



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SECTION 1 SUMMARY

SERVICING PRECAUTIONS

1. Always disconnect the power source before:

- 1) Removing or reinstalling any component, circuit board, module or any other instrument assembly.
- 2) Disconnecting or reconnecting any instrument electrical plug or other electrical connection.
- 3) Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.

3. Do not apply power to this instrument and or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.

4. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

- 1) The service precautions are indicated or printed on the cabinet, chassis or components. When servicing, follow the printed or indicated service precautions and service materials.
- 2) The Components used in the unit have a specified conflammability and dielectric strength. When replacing any components, use components which have the same ratings. Components marked in the circuit diagram are important for safety or for the characteristics of the unit. Always replace with the exact components.
- 3) An insulation tube or tape is sometimes used and some components are raised above the printed writing board for safety. The internal wiring is sometimes clamped to prevent contact with heating components. Install them as they were.
- 4) After servicing always check that the removed screws, components and wiring have been installed correctly and that the portion around the service part has not been damaged. Further check the insulation between the blades of attachment plug and accessible conductive parts.

ESD PRECAUTIONS

Electrostatically Sensitive Devices (ESD)

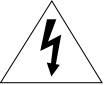
Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called electrostatically sensitive devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following 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 ARROWHEAD 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.

SPECIFICATIONS

• GENERAL

Output Power	50W x 4CH (Max.)
Power Source	DC 12V
Speaker impedance	4Ω
Ground System	Negative
Dimensions (W x H x D)	180 x 51 x 171mm (Without Control Panel)
Net Weight	2.0kg

• CD SECTION

Frequency Response	20Hz ~ 20kHz
S/N Ratio	80dB
Distortion	0.12%
Channel Separation (1kHz)	55dB

• RADIO SECTION

FM

Frequency Range	65 ~ 74, 87.5 ~ 107.9 or 87.5 ~ 108MHz
S/N Ratio	53dB
Distortion	0.7%
Usable Sensitivity	12dBμV

AM (MW)

Frequency Range	520 ~ 1720 or 522 ~ 1620kHz
S/N Ratio	45dB
Distortion	1.0%
Usable Sensitivity	28dBμV

SECTION 2 ELECTRICAL

ELECTRICAL TROUBLESHOOTING GUIDE & WAVEFORMS

1. MAIN, FRONT & TUNER PART

No	Symptom	Check Point	Location No.
SYSTEM CONTROL			
1	No Power	Checked the Fuse. Checked the Back up Vdd, Gnd. Checked the Micom Back Up Vdd. Checked the Micom Ground. Checked the Reset. Checked the X-tal. Checked the ACC in. Checked the detachable switch. Checked the Key line.	CN801 CN801(16,15) IC301(14), D307, IC401(30,47,50,99,100) IC401(20,51,97,98) IC402, IC401(90) X401, X402 Q301, Q302, IC401(38), CN801(14) IC401(73) IC401(52,53)
2	Not available Remocon	Checked the Remocon Sens Vdd. Checked the Remocon Sens line.	CN901(12), Q316, Q317, D307 RM901(1), IC401(5)
3	Not available to Volume control	Checked the Encoder Volume.	EV901(1), IC401(40,41)
4	Not available to Key Control	Checked Tact switch. Checked Key line.	SW901 ~ SW919 IC410(52,53)
5	No sound * Power IC : Refer to next page	Checked the E-VR Vdd. Checked the E-VR Ground. Checked the E-VR control. Checked the E-VR Signal in/out. Checked the E-VR Mute Control Checked the Power IC Vdd. Checked the Power IC Ground. Checked the Power IC Control. Checked the Power IC Signal in/out. Checked the Power IC Mute. Checked the Power IC Standby. Checked the Power IC Ripple. Checked the Main Connector.	IC301(10), IC601(16) IC601(1,22) IC601(22,23), IC401(1,2) IC601(3,5,6,7,10,11) IC601(12,13,14,15) IC601(19), IC401(6) IC801(6,20) IC801(1,2,8,13,18,24) IC801(4,22), IC401(3,10) IC801(11,12,14,15) IC801(3,5,7,9,17,19,21,23) IC801(22) IC801(4) IC801(10) CN801(1,2,3,4,8,9,12,13)
6	No Line out signal	Checked the E-VR Vdd. Checked the E-VR Ground. Checked the E-VR control. Checked the E-VR Signal in/out. Checked the Line out Mute circuit Check the Line out Jack	IC301(10), IC601(16) IC601(1,22) IC601(20,21), IC401(1,2) IC601(3,5,6,7,10,11) IC601(12,13,14,15) Q705, IC401(48) CN703
8	Heard Pop Noise	Checked the Mute Control. Checked the AF Mute.	IC601(19), IC801(4, 22), IC401(3,6,10) TU101(19), IC401(4)
9	Not available to Telephone Mute	Checked the telephone Mute Control. Checked the Mute Control.	CN801(5), Q305, Q306, IC401(62) IC601(19), IC801(4, 22), IC401(3,6,10)
10	Not available to ANT(Motor Type)	Control Checked the ANT Control.	IC301(12,13), IC401(87)
11	Not available to Remote (External AMP)	Checked the Remote control.	CN801(6), IC402(1,2,4), Q308, Q309 IC401(63,64)
12	No output Beep sound.	Checked the Beep Control.	IC401(80)

■ CAUTION - Tip for repair

Before exchange power amp IC(TB2904) for no audio problem, you have to check below list.

1. Check VCC (pin 20, 6) & GND
2. Check input pin 11, 12, 14, 15
3. Check Standby, pin 4
: Follow the below list.
4. Check Mute function, pin 22
: Follow the below list.

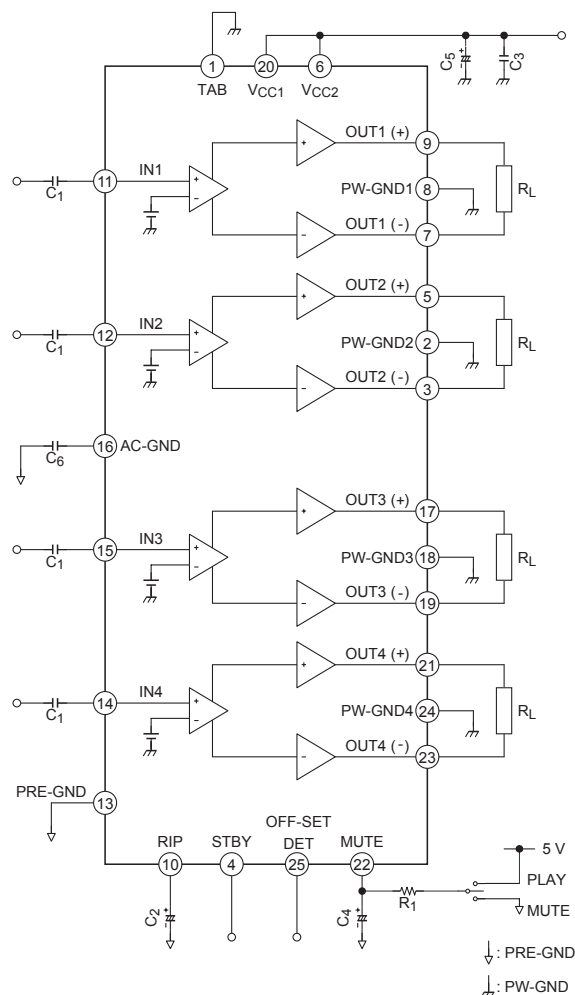
Stand-by	Power	Sound	Voltage
ON	OFF	OFF	0 to 1.5
OFF	ON	ON	3.5 to 6V

5. Check Ripple pin 10.
: Normally it is high (about 10V)

Mute	Sound	Voltage
ON	OFF	0 to 1.5
OFF	ON	3.5 to 6V

6. Re-soldering all the pin of IC.
: Prevent crack of solder line.

* Keep changed IC, We request that you send it to HQ.

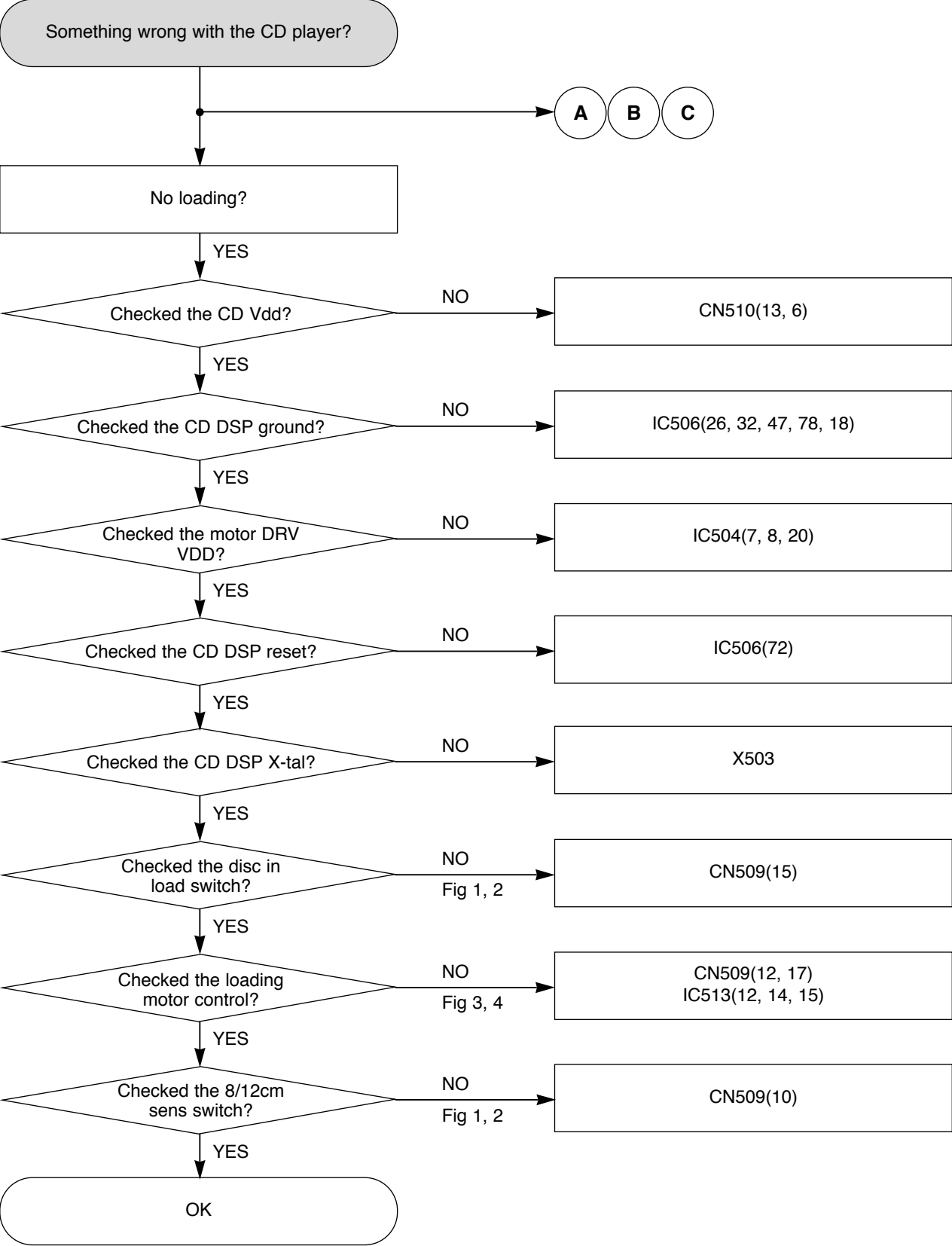


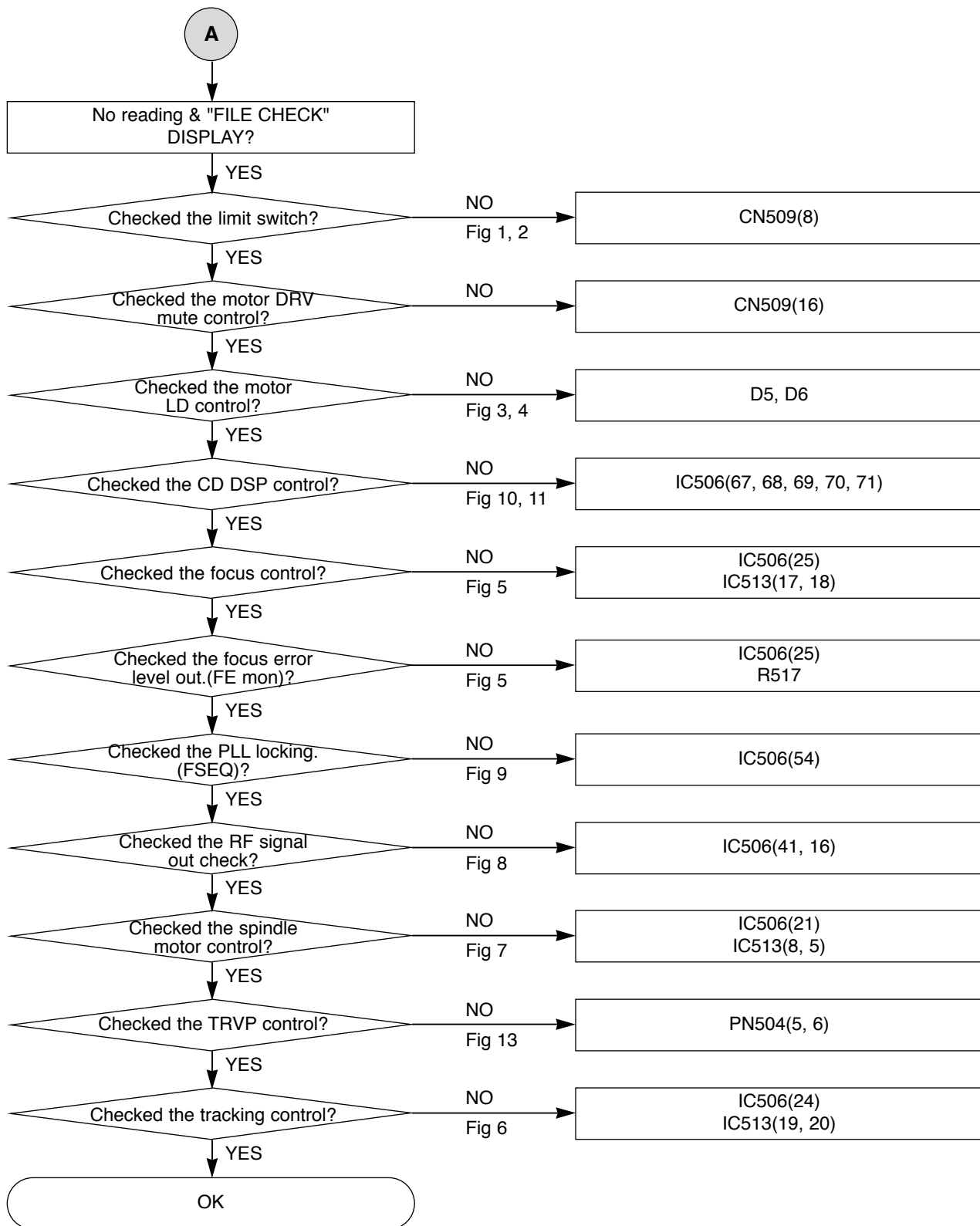
Picture 1) Power IC desc.

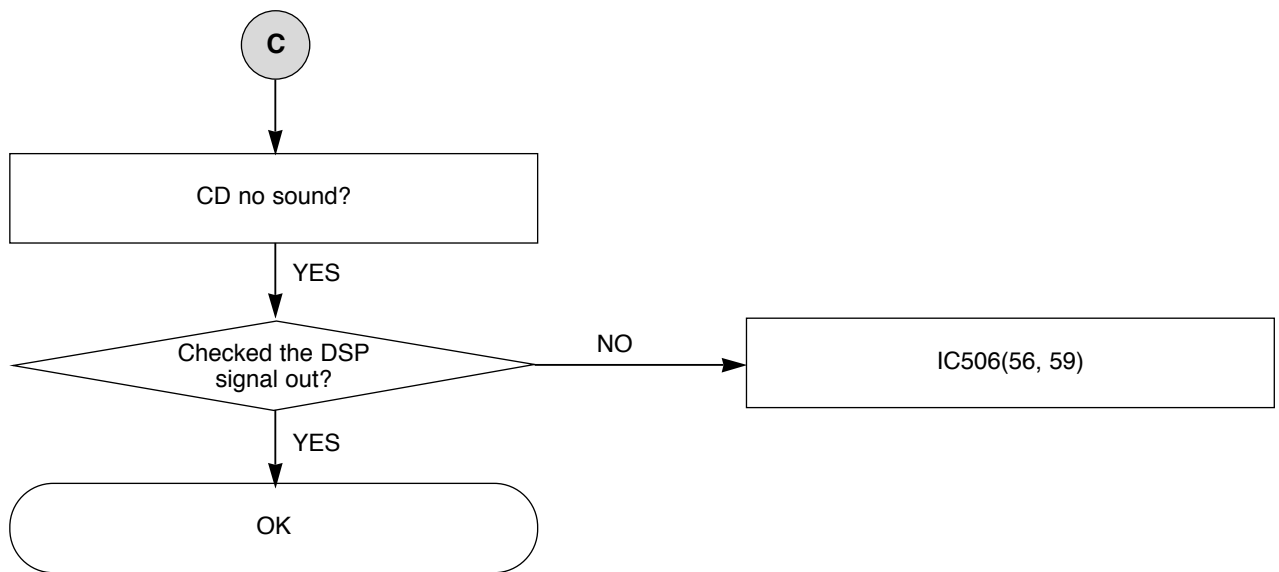
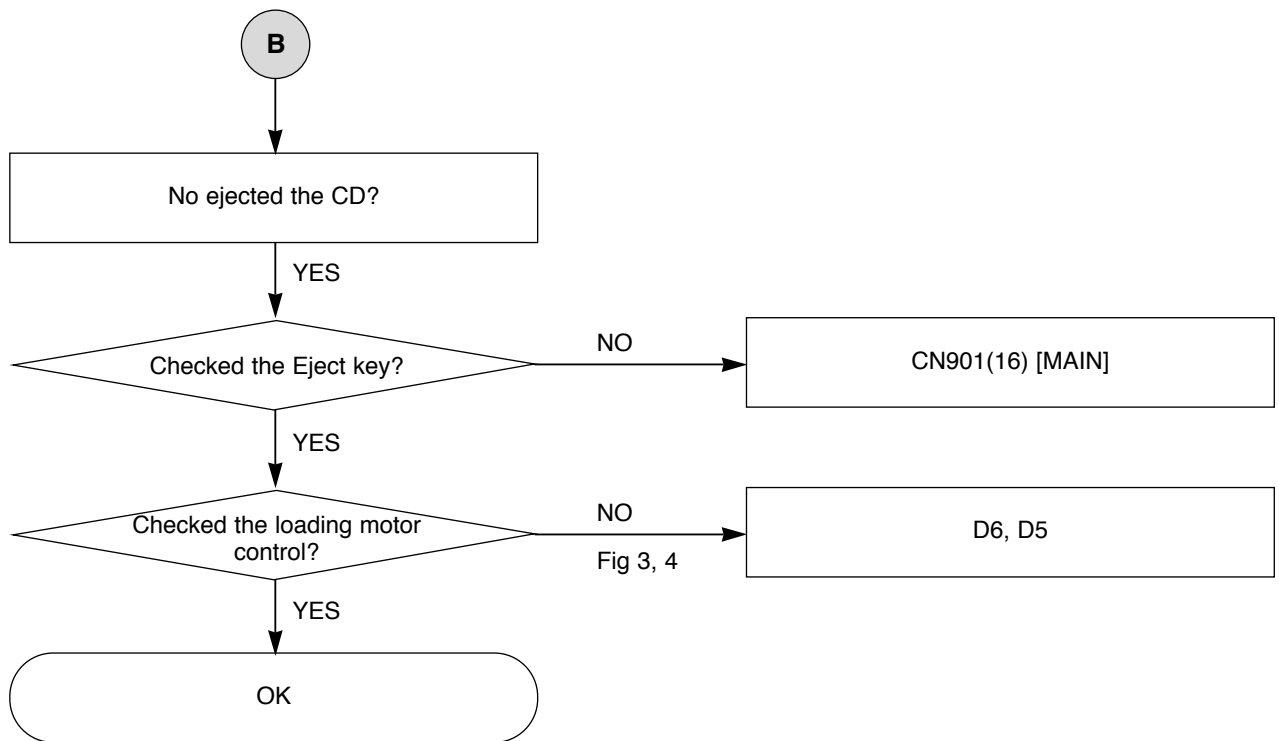
No	Symptom	Check Point	Location No.
DISPLAY & LIGHTING			
1	No Display or Some Display is broken	Checked the LCD DRV Vdd.	Q322, Q316, Q317 IC901(58,59)
		Checked the LCD DRV Ground.	IC901(60)
		Checked the LCD DRV OSC.	IC901(61)
		Checked the LCD DRV control.	IC401(75,79,85,86), IC901(57,62,63,64)
		Checked the LCD DRV to LCD Pattern.	IC901(1 ~ 55)
2	No LCD Lighting or Color is different	Checked the LCD Lighting VDD.	Q319, Q320, Q322, IC301(4,9) IC401(64)
		Checked the LED.	LD930, LD931
3	Not available to LCD Lighting control	Checked the LCD Lighting Control.	CN801(11), Q303, Q304, Q321, IC401(58)
		Checked the LED.	LD930, LD931
4	No Key Lighting	Checked the LED Lighting Vdd.	IC301(4,9), IC401(64)
		Checked the LED.	LD901 ~ LD921
5	Don't moved Level bar	Checked the Level Meter control.	IC401(54,57)
6	Not available to Dimmer control	Checked the Dimmer control.	CN801(11), Q303, Q304, IC301(4,9)

No	Symptom	Check Point	Location No.
TUNER FUNCTION			
1	Not available to Tuner	Checked the Tuner Vdd.	TU101(4,16), IC301(10), IC401(39) Q350, Q351
		Checked the Tuner Ground.	TU101(3, 5,10,17)
		Checked the PLL data.	TU101(11,12,13,14,15) IC401(67,68,44,45,46)
		Checked the RF signal in.	TU101(1, 2)
		Checked the S-Meter control.	TU101(7)
		Checked the SD & ST IND.	TU101(6)
2	Tuner no sound	Checked the Tuner Signal out.	TU101(8,9), IC601(6,7)
		Checked the AF mute.	TU101(19), IC401(4)
3	Not available to RDS	Checked the RDS data.	TU101(20,21), IC401(65,83)

2. CD PART







• WAVEFORMS

Fig 1) Switching condition for loading

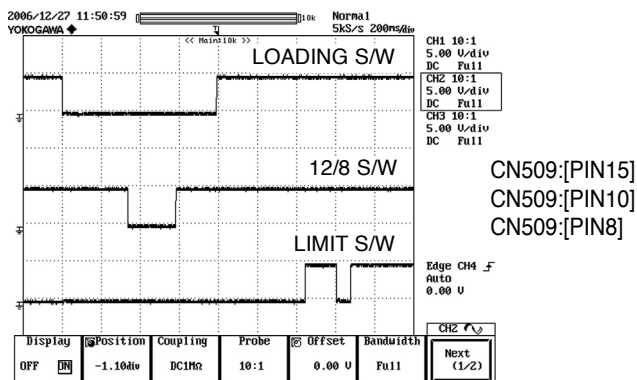


Fig 2) Switching condition for unloading

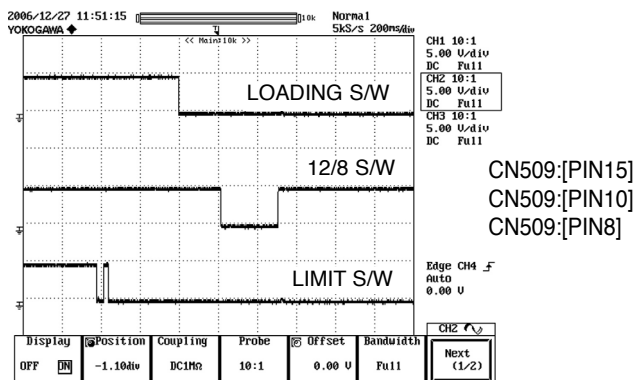


Fig 3) Motor control signal for loading

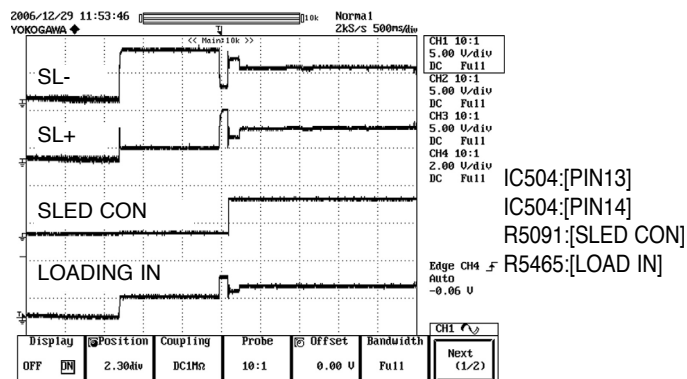
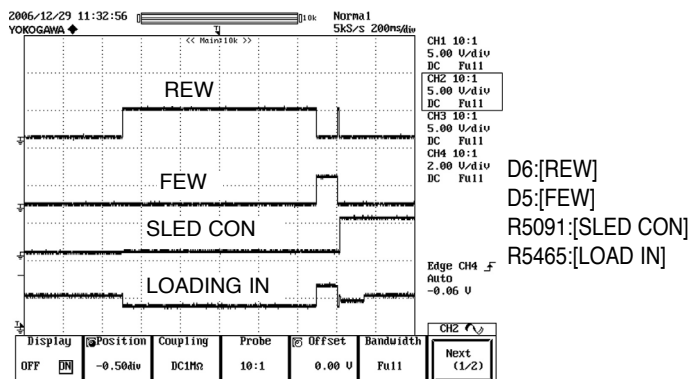


Fig 4) Motor control signal for unloading

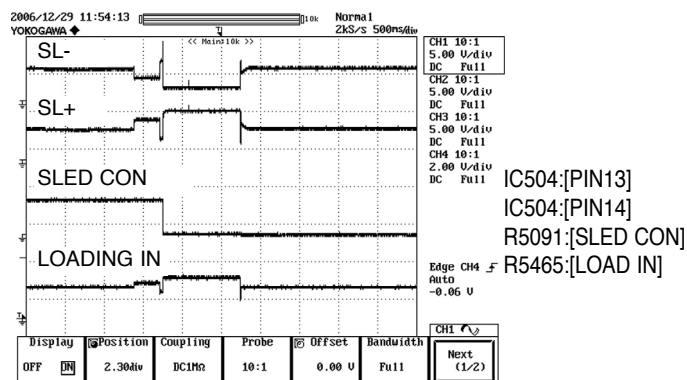
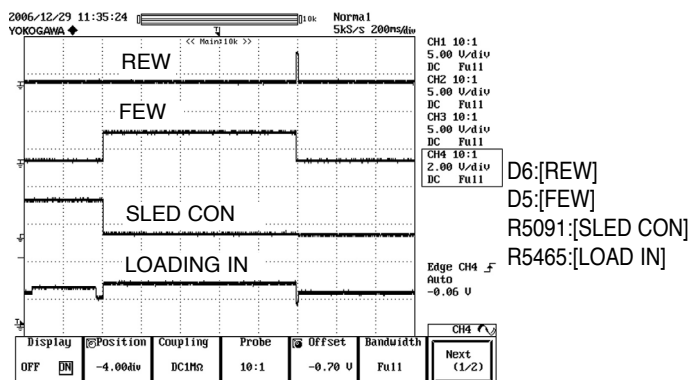


Fig 5) Focus control signal

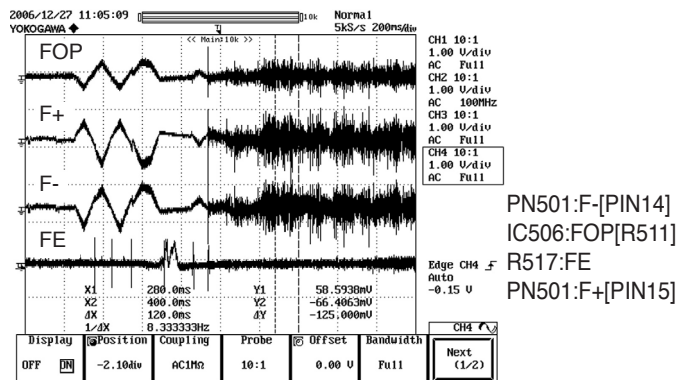


Fig 6) Tracking control signal

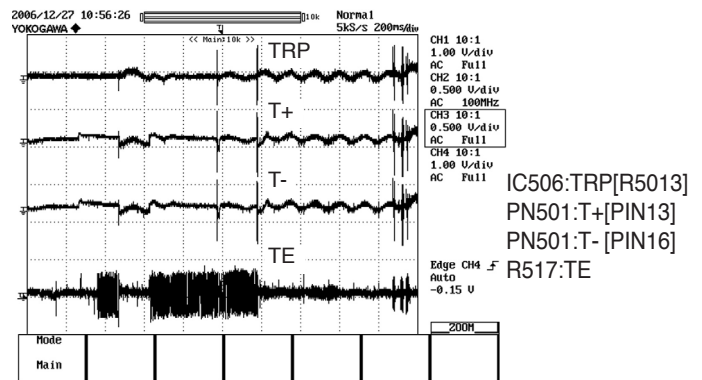


Fig 7) Spindle control signal

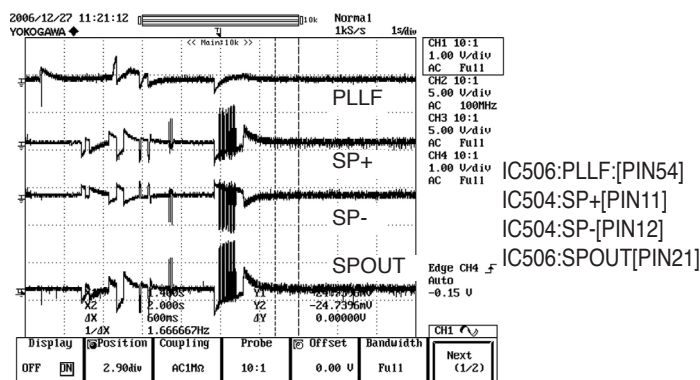


Fig 8) PD, RFOUT

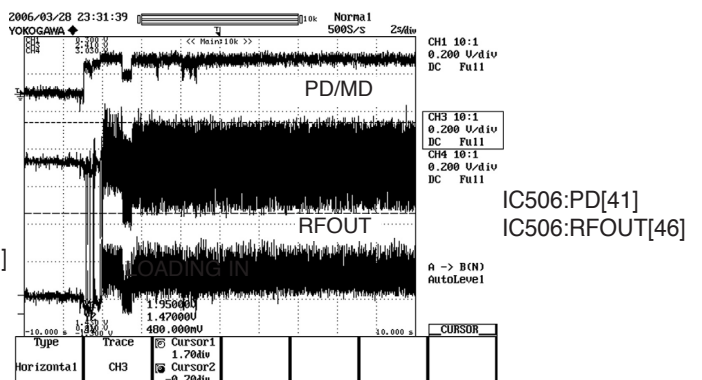


Fig 9) CLK, REQ & DATA

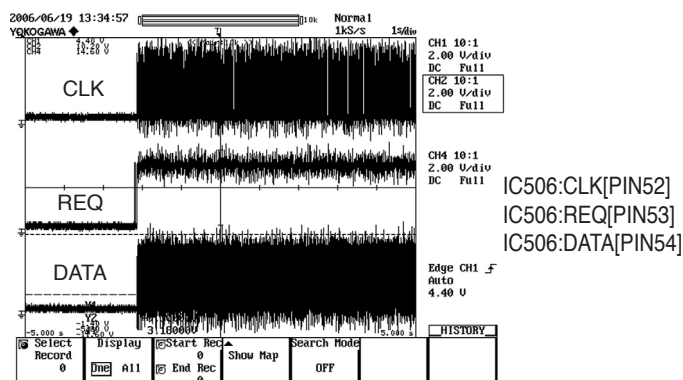


Fig 10) MLD, MDATA & MCLK

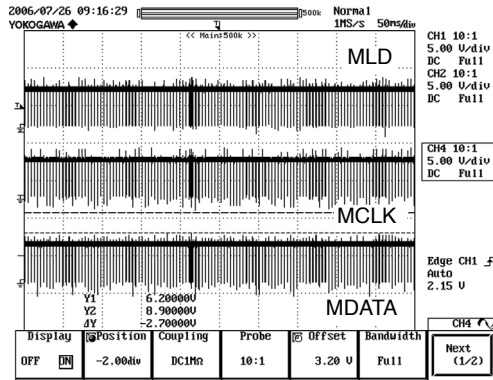
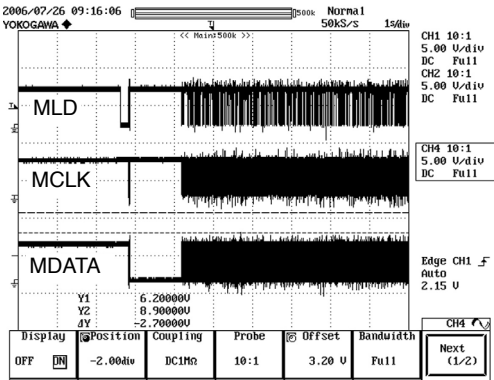


Fig 11) STAT, MDATA & NRST

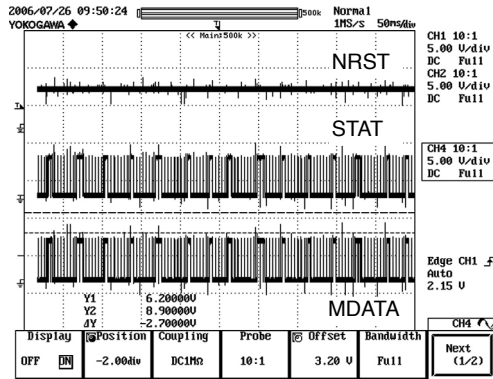
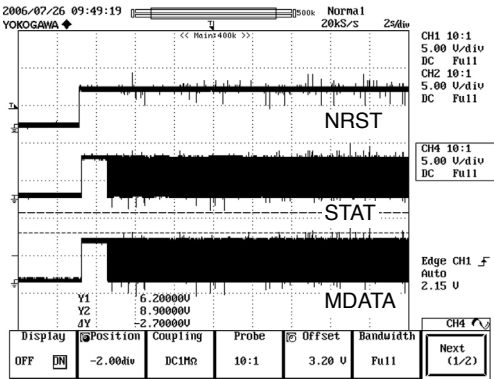
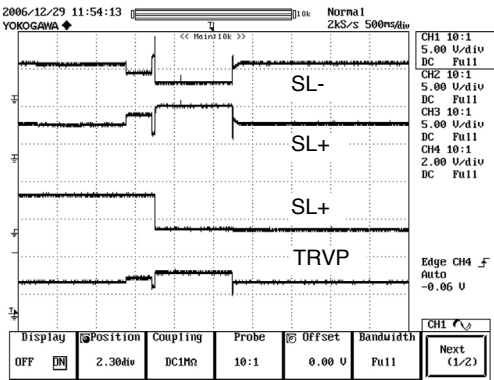


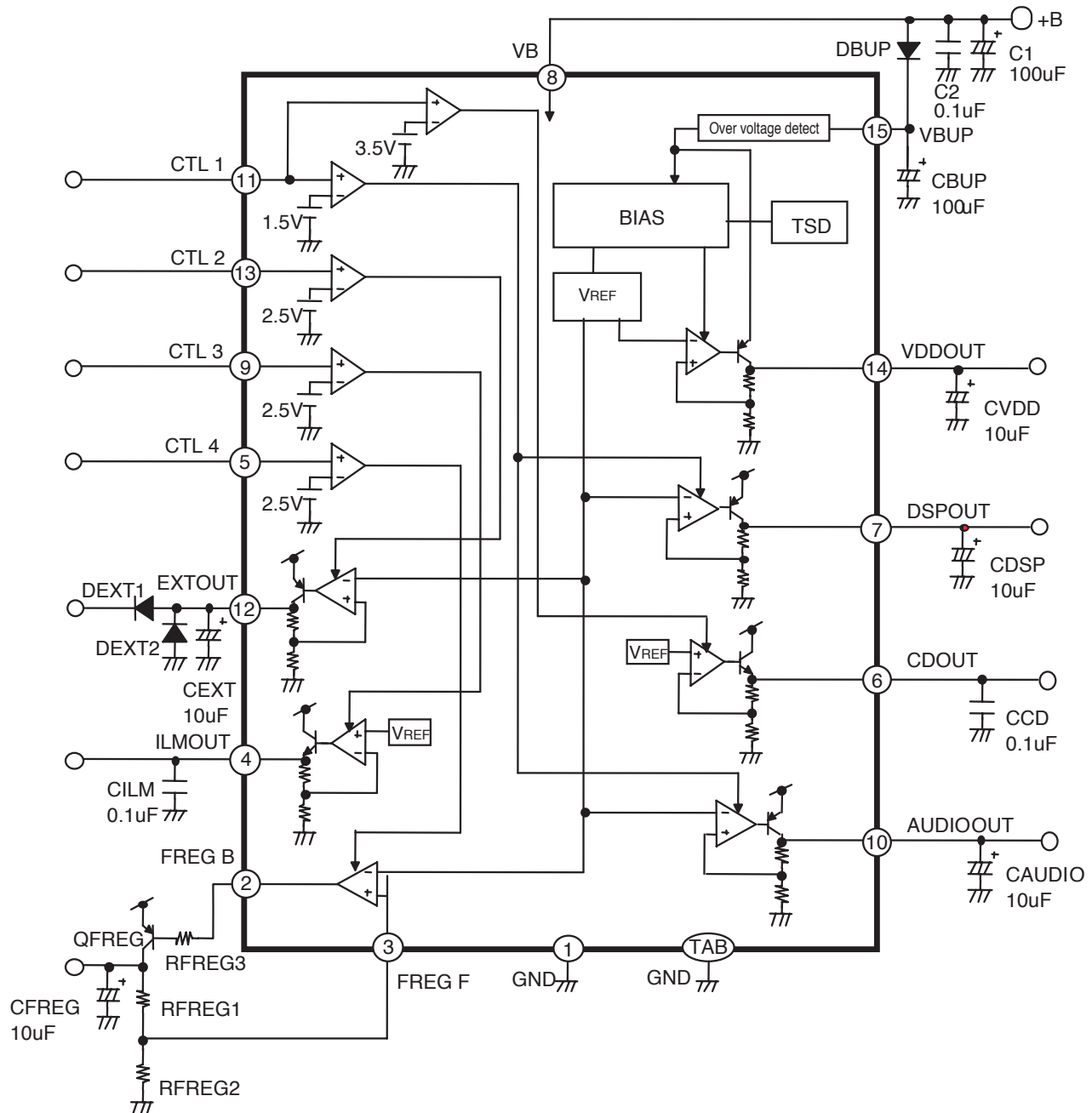
Fig 12) SLED control



INTERNAL BLOCK DIAGRAM OF ICs

1. IC301 (HA13173AH)

1-1. BLOCK DIAGRAM



1-2. PIN FUNCTION (Note1)

Pin No.	Pin name	Function	Protection function			
			Normal operation	(Note2) TSD On	(Note3) VB=24V	(Note3) VB=50V
1	GND	Ground	-	-	-	-
2	FREG_B	External Trs bass drive (Note4)	On/Off	On/Off	Off	Off
3	FREG_F	FREG feedback terminal	On/Off	On/Off	Off	Off
4	ILMOUT	8.4V output for JLM/500mAmax	On/Off	Off	Off	Off
5	CTL4	FREG control terminal	-	-	-	-
6	CDOUT	8.0V output for CD/1.3Amax (Note4)	On/Off	Off	Off	Off
7	DSPOUT	3.3V output for DSP/250mAmax (Note4)	On/Off	Off	Off	Off
8	VB	Battery	-	-	-	-
9	CTL3	ILM control terminal	-	-	-	-
10	AUDIOOUT	8.4V output for AUDIO/500mAmax (Note4)	On/Off	Off	Off	Off
11	CTL1	DSP, CD, Audio control terminal	-	-	-	-
12	EXTOUT	High side output/600mAmax (Note4)	On/Off	Off	Off	Off
13	CTL2	EXT control terminal	-	-	-	-
14	VDDOUT	5.7V output for micro controller (Note4)	On	On	On	Off
15	VBUP	Back up	-	-	-	-

Note1. In the upper table. "On" means always On. "Off" means compulsory Off and "On/Off" means that it can control by control terminal.

Note2. Thermal protection circuit

A built-in thermal protection circuit (TSD:Thermal shut down) prevents thermal damage to the IC. All outputs except VDD(pin14) and FREG (pin2&3) are switched off when the circuit operates, revert to the original state when the temperature drops to a certain level.

Note3. Overvoltage protection circuit

The overvoltage protection circuit (surge protector) turns off all outputs without Vdd, when VB voltage is more than about 21V. And the overvoltage protection circuit (surge protector) turns off Vdd output with other all outputs, when VB voltage is more than about 26V. When the overvoltage protection operates on VB>=18V condition, the stand by current increases.

Note 4. Overcurrent protection circuit

FREG_B (pin2), ILMOUT (pin4), CDOUT (pin6), DSPOUT (pin7), AUDIOOUT (pin10), EXITOUT (pin12), VDDOUT (pin14) output circuits are built-in overcurrent protection circuit based on the respective output current. These overcurrent protection circuits limit the current with a curve shape of "7" in the voltage-current graph. This prevents IC destruction due to overcurrent.

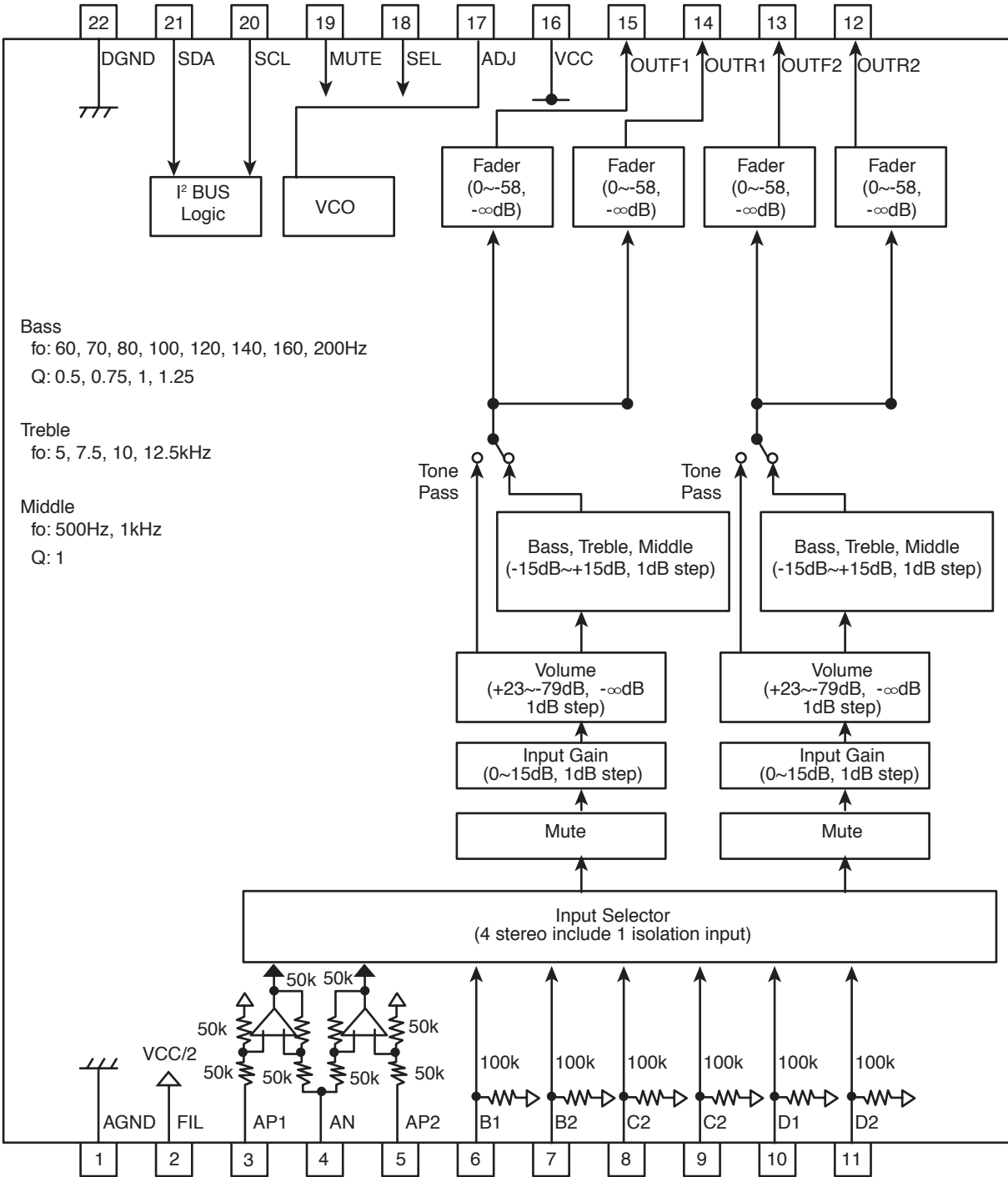
3-2. PIN DESCRIPTION

Pin	Name in Micom	Name in Model	Enable I/O	I/O setted	Output Format	Description
1	P60/SCL0	PEV_CLK	I/O	O	N-CH	Clock output to TDA7419 for the volume control
2	P61/SDA0	PEV_DE	I/O	O	N-CH	Data output to TDA7419 for the volume control
3	P62	PPWR_MUTE	I/O	O	N-CH	To Power amp, "MUTE" command output
4	P63	PAF_MUTE	I/O	O	N-CH	AF mute
5	P31/TI03/TO03/INTP4	PRMC	I/O	I	-	Remocon input
6	P64/RD'	PSOFT_MUTE	I/O	O	CMOS	Direct volume mute signal output
7	P65/WR0'	PEJECT	I/O	I	-	Eject key input
8	P66/WR1'	PEALA_SW2	I/O	O	CMOS	EALA control output 2
9	P67/ASTB	PSECP_CLK	I/O	O	CMOS	Spectrum analyze clock output to TDA7419
10	P77/EX23/KR7/INTP11	PSTANDBY	I/O	O	CMOS	To PowerR amp, "STAND-BY" command output
11	P76/EX22/KR6/INT10	PDECK_LD	I/O	I	-	Deck load SW
12	P75/EX21/KR5/INT9	PCDP_IBLK	I/O	I	-	SubQ ack
13	P74/EX20/KR4/INTP8	PCDP_VDET	I/O	I	-	Vibration detection
14	P73/EX19/KR3	PCDP_POWER	I/O	O	CMOS	CDP power on
15	P72/EX18/KR2	PDECK_INN	I/O	I	-	Deck inner SW
16	P71/EX17/KR1	PDECK_12/8	I/O	I	-	Deck 2cm disc detect SW
17	P70/EX16/KR0	PSLED_CTRL	I/O	O	CMOS	Deck sled/Loading motor selector
18	P06/WAIT'	PCDP_FEW	I/O	O	CMOS	Loading motor loading
19	P05/CLKOUT	PCDP_REW	I/O	O	CMOS	Loading motor unloading
20	EVSS1		-			Ground Potential for Ports
21	P80/EX0	PDRV_MUTE	I/O	O	CMOS	Deck driver IC mute
22	P81/EX1	PDAC_MUTE	I/O	O	CMOS	DAC mute
23	P82/EX2	PCDP_RST	I/O	O	CMOS	CDP reset
24	P83/EX3	PCDP_MLD	I/O	O	CMOS	DSP ACK
25	P84/EX4	PZERO_MUTE	I/O	I	-	DAC zero mute monitor
26	P85/EX5	PISP	I/O	O	CMOS	USB Flash upgrade enable
27	P86/EX6	PUSB_POWER(PBT)	I/O	O	CMOS	USB power on/BT power on(3.3V Ctrl)
28	P87/EX7	PUSB_SW	I/O	I	-	USB device detect sw
29	P30/INTP3/RTC1HZ	PUSB_RESET	I/O	O	CMOS	OTG reset
30	EVDD1		-			Positive power supply for ports
31	P50/EX8	PUSB_PROTECT	I/O	I	-	Protection IC overcurrent detection
32	P51/EX9	POPT_IN0	I/O	-		For diode option check, signal 1 or 2 input0
33	P52/EX10	POPT_IN1	I/O	I	-	For diode option check, signal 1 or 2 input1
34	P53/EX11	POPT_IN2	I/O	I	-	For diode option check, signal 1 or 2 input2
35	P54/EX12	POPT_OUT0	I/O	O	CMOS	For diode option check, signal 1 output
36	P55/EX13	POPT_OUT1	I/O	O	CMOS	For diode option check, signal 2 output
37	P56/EX14	POPT_OUT2	I/O	O	CMOS	For diode option check, signal 3 output
38	P57/EX15	PACC_IN	I/O	I	-	ACC in
39	P17/EX31/TI02/TO02	PACC_OUT	I/O	O	CMOS	ACC out
40	P16/EX30/TI01/TO01/INTP5	PVOLA	I/O	O	CMOS	Encoder volume terminal #A input
41	P15/EX29/RTCDIV/RTCCCL	PVOLB	I/O	O	CMOS	Encoder volume terminal #A input
42	P14/EX28/RxD3	PUSB_RX/PBT_RX	I/O	I	-	Data input for USB/BT
43	P13/EX27/TxD3	PUSB_TX/PBT_TX	I/O	O	CMOS	Data output for USB/BT
44	P12/EX26/SO00/TxD0	PPLL_DO	I/O	O	CMOS	Data output for PLL IC
45	P11/EX25/SI00/RxD0	PPLL_DI	I/O	I	-	Data input for PLL IC
46	P10/EX24/SCK00'	PPLL_CLK	I/O	O	CMOS	CLK output for PLL IC
47	AVREF1		-			• A/D converter reference voltage input • Positive power supply for P20 to P27, P150 to P157, and A/D converter
48	P110/ANO0	PLINE_MUTE	I/O	O	CMOS	Line out mute
49	P111/VNO1	PTUNER_MUTE	I/O	O	CMOS	Tuner <----> VR IC mute
50	AVREF0		-			• D/A converter reference voltage input • Positive power supply for P110, P111, and D/A converter

Pin	Name in Micom	Name in Model	Enable I/O	I/O settet	Output Format	Description
51	AVSS					
52	P157/ANI15	PKEY1	I/O	I	-	Key #1 line input
53	P156/ANI14	PKEY2	I/O	I	-	Key #2 line input
54	P155/ANI13	PLEVEL_METER	I/O	I	-	Level meter input
55	P154/ANI12	PSMETER	I/O	I	-	Radio station's strength signal input
56	P153/ANI11	PQUALTY	I/O	I	-	Connect to tuner pack QUALITY
57	P152/ANI10	PLVL_MTR_CD_AUX	I/O	I	-	Level meter input(CD,AUX)
58	P151/ANI9	Bt Detect	I/O	I	-	Backup voltage Detect
59	P150/ANI8	PLIGHT	I/O	O	CMOS	Backlight control output
60	P27/ANI7	PAUX_MUTE	I/O	O	CMOS	AUX mute
61	P26/ANI6	PAUDIO_MUTE	I/O	O	CMOS	VR IC <--> PWR AMP mute
62	P25/ANI5	PTEL_MUTE	I/O	O	CMOS	Telephone mute input
63	P24/ANI4	PREMOTE	I/O	O	CMOS	External amp on
64	P23/ANI3	PPWR	I/O	O	CMOS	Power on
65	P22/ANI2	PRDS_DI	I/O	I	-	From tuner pack, RDS data input
66	P21/ANI1	PDIM_IN	I/O	I	-	Dimmer input
67	P20/ANI0	PEEPROM_CE	I/O	O	CMOS	EEPROM Chip select
68	P130	PPLL_CE	O	O	CMOS	PLL chip select
69	P131/TI06/TO06	PSD_ST	I/O	I	-	SD level input from Tuner pack
70	P04/SCK10/SCL1	PART_EN	I/O	O	-	ART Enable input
71	P03/SI10/RxD1/SDA1	PART_RX	I/O	I	-	Data input for ART
72	P02/SO10/TXD1	PART_TX	I/O	I	CMOS	Data output for ART
73	P01/TO00	PFRT_DETECT	I/O	I	-	Front detaching/attaching detect
74	P00/TI00	PFRT_OPEN I/O	I	-	-	Front open/close detect
75	P145/TI07/TO07	PFRT_RST	I/O	O	CMOS	Front micom(LCD drv) reset
76	P144/SO20/TxD2	PCDP_DO	I/O	O	CMOS	Data output for CDP
77	P143/SI20/RxD2/SDA2	PCDP_DI	I/O	I	-	Data input for CDP
78	P142/SCK20/SCL2	PCDP_CLK	I/O	O	CMOS	CLK output for CDP
79	P141/PCLBUZ1/INTP7	PFRT_CE	I/O	I	-	Data enable output to front micom(LCD drv)
80	P140/PCLBUZ0/INTP6	PBEEP	I/O	O		CMOS Buzzer output
81	P120/INTP0/EXLVI	PEXLVI	I/O	I	-	Low voltage detector(Connect to Vdd)
82	P47/INTP2 PFLMD0_	CTR	I/O	O	CMOS	Disc download FLMD0 control(Connect to FLMD0(Pin93))
83	P46/INTP1/TI05/TO05	PRDS_CLK	I/O	I	-	From tuner pack, RDS data input
84	P45/SO01	PFRT_DO	I/O	O	CMOS	Data output to front micom(LCD drv)
85	P44/SI01	PTUNER_MUTE	I/O	I	-	TUNER Mute
86	P43/SCK01'	PFRT_CLK	I/O	O	CMOS	CLK output to front micom(LCD drv)
87	P42/TI04/TO04	PANT	I/O	O	CMOS	Antena control output
88	P41/TOOL1	Download_CLK	I/O	-	-	CLK for onboard debugger
89	P40/TOOL0	Download_IO	I/O	-	-	Data I/O for flash memory programmer (Pull-up register(10K))
90	RESET'	-	-	-	-	System reset input
91	P124/XT2	-	I	I	-	Sub clock 32.768 KHz
92	P123/XT1	-	I	I	-	Sub clock 32.768 KHz
93	FLMD0	-	-			Flash memory programming mode setting
94	P122/X2/EXCLK	-	I	I	-	X-tal 19.2 MHz
95	P121/X1	-	I	I	-	X-tal 19.2 MHz
96	REGC	-	-			Connect to VSS via a capacitor (0.47 to 1 μ F)
97	VSS	-	-			Ground
98	EVSS0	-	-			Ground Potential for Ports
99	VDD	-	-			Positive power supply (+5V)
100	EVDD0	-	-			Positive power supply (+5V) For Ports

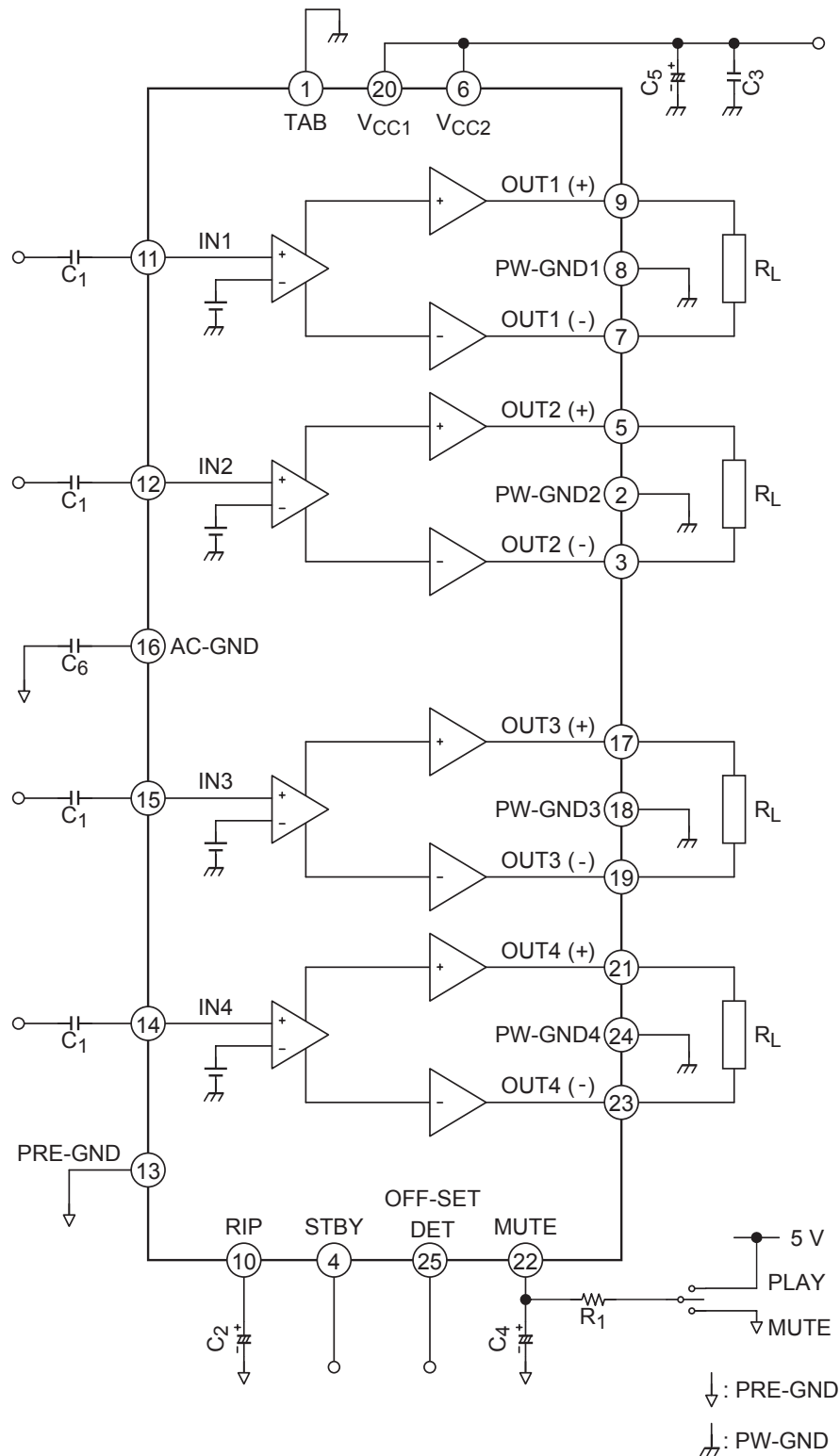
4. IC601 (BD3805F)

4-1. BLOCK DIAGRAM



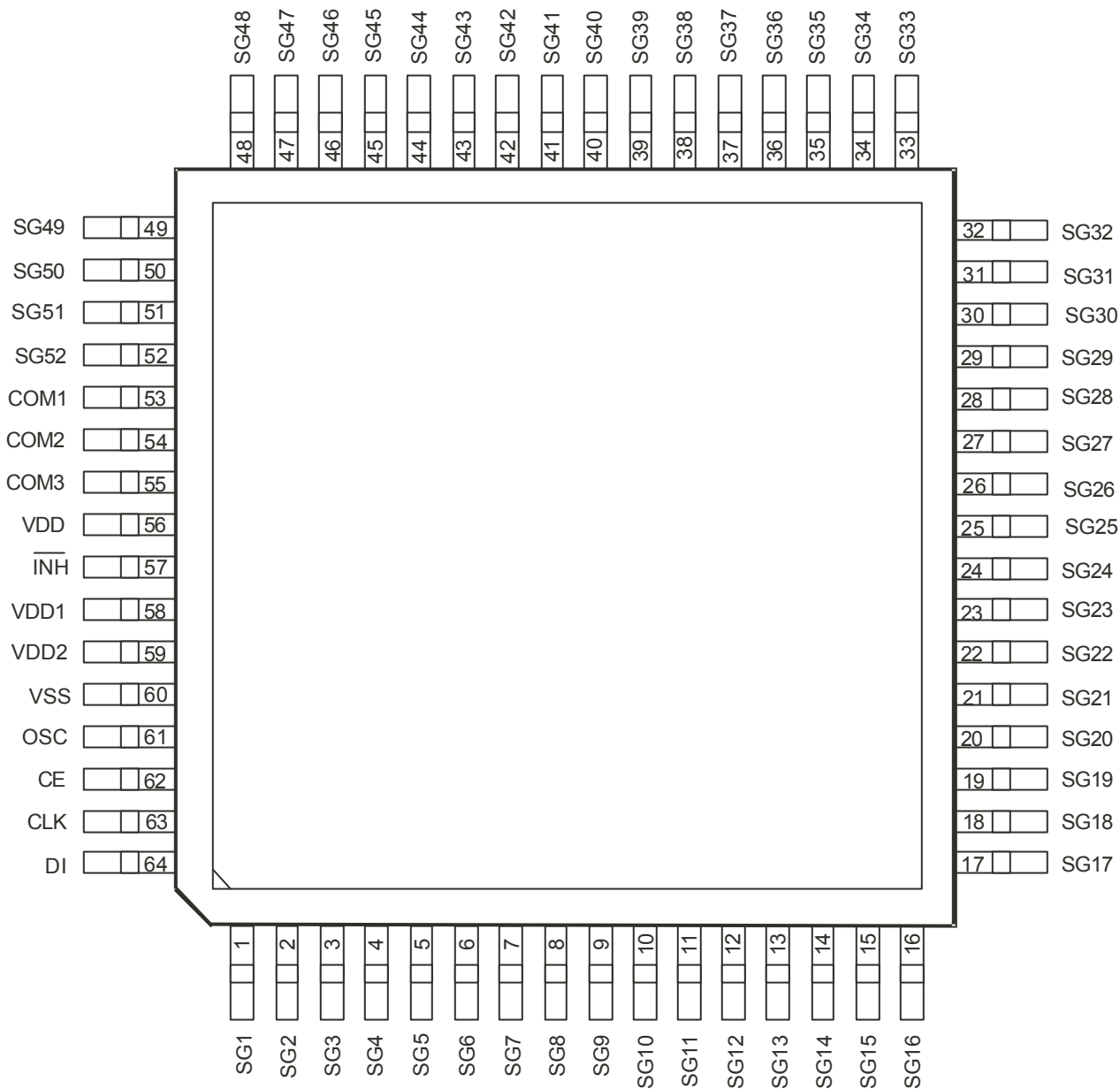
5. IC801 (TB2904HQ)

5-1. BLOCK DIAGRAM



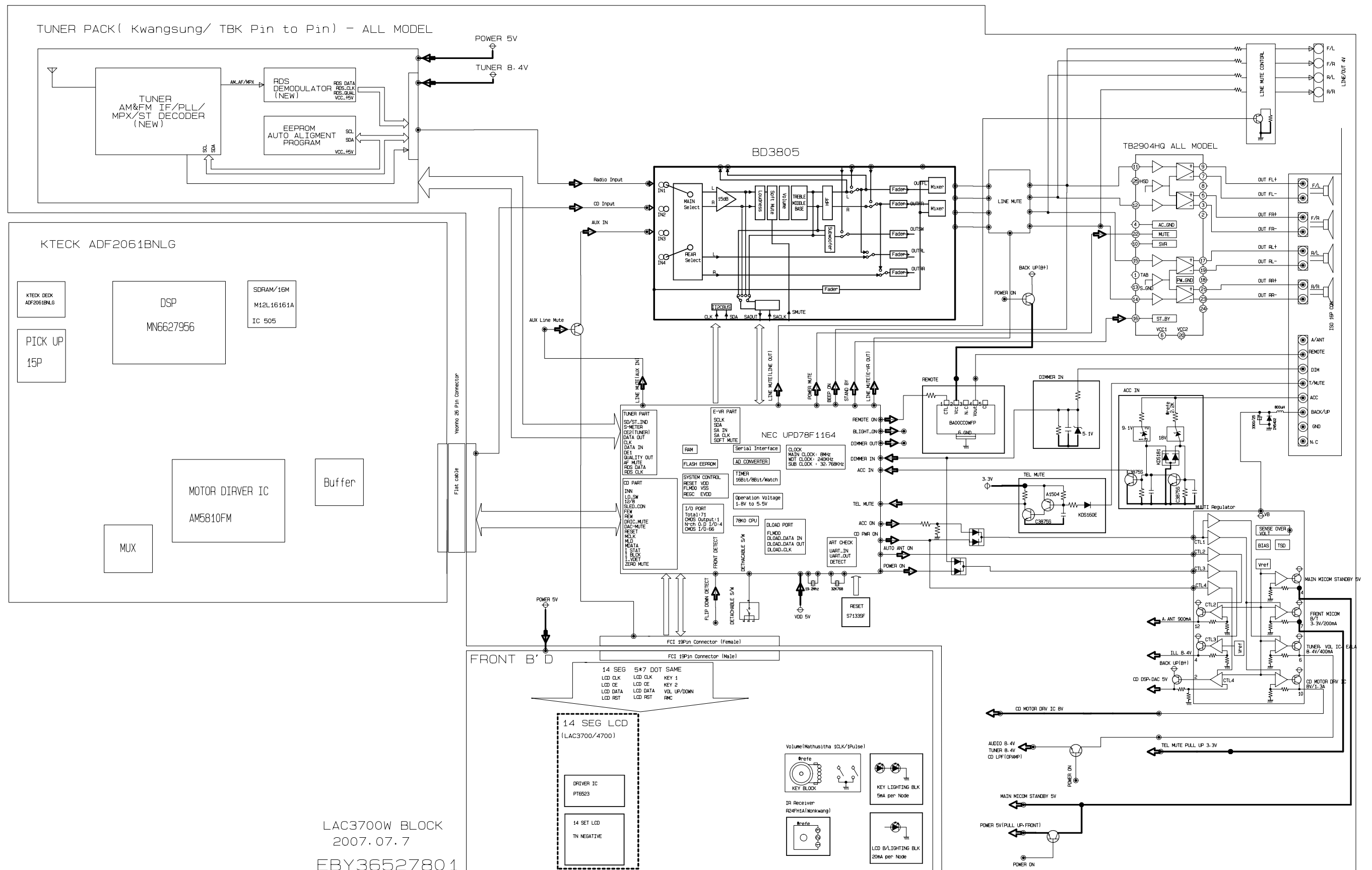
6. IC901 (PT6523)

6-1. PIN CONFIGURATION

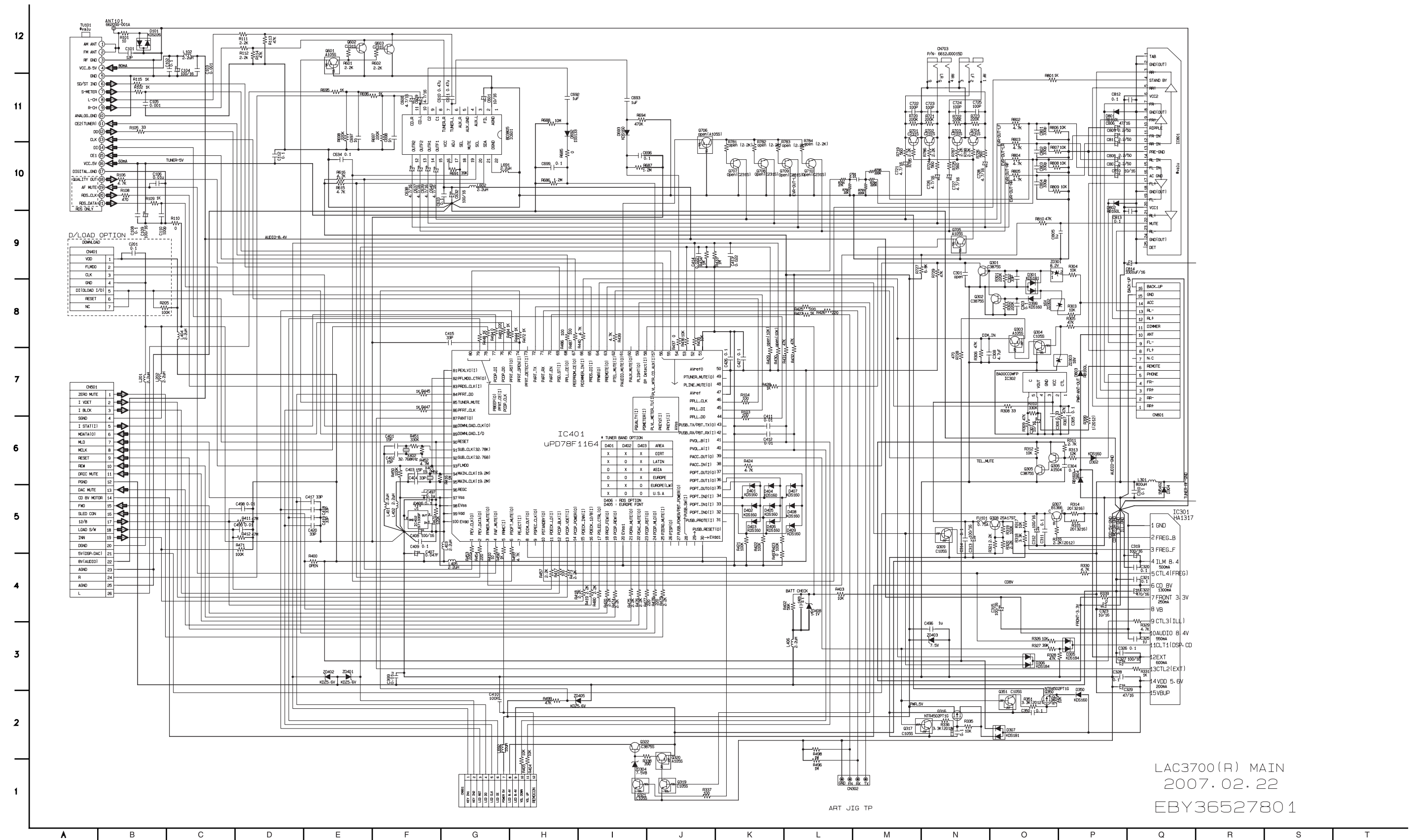


MEMO

BLOCK DIAGRAM



1. MAIN CIRCUIT DIAGRAM

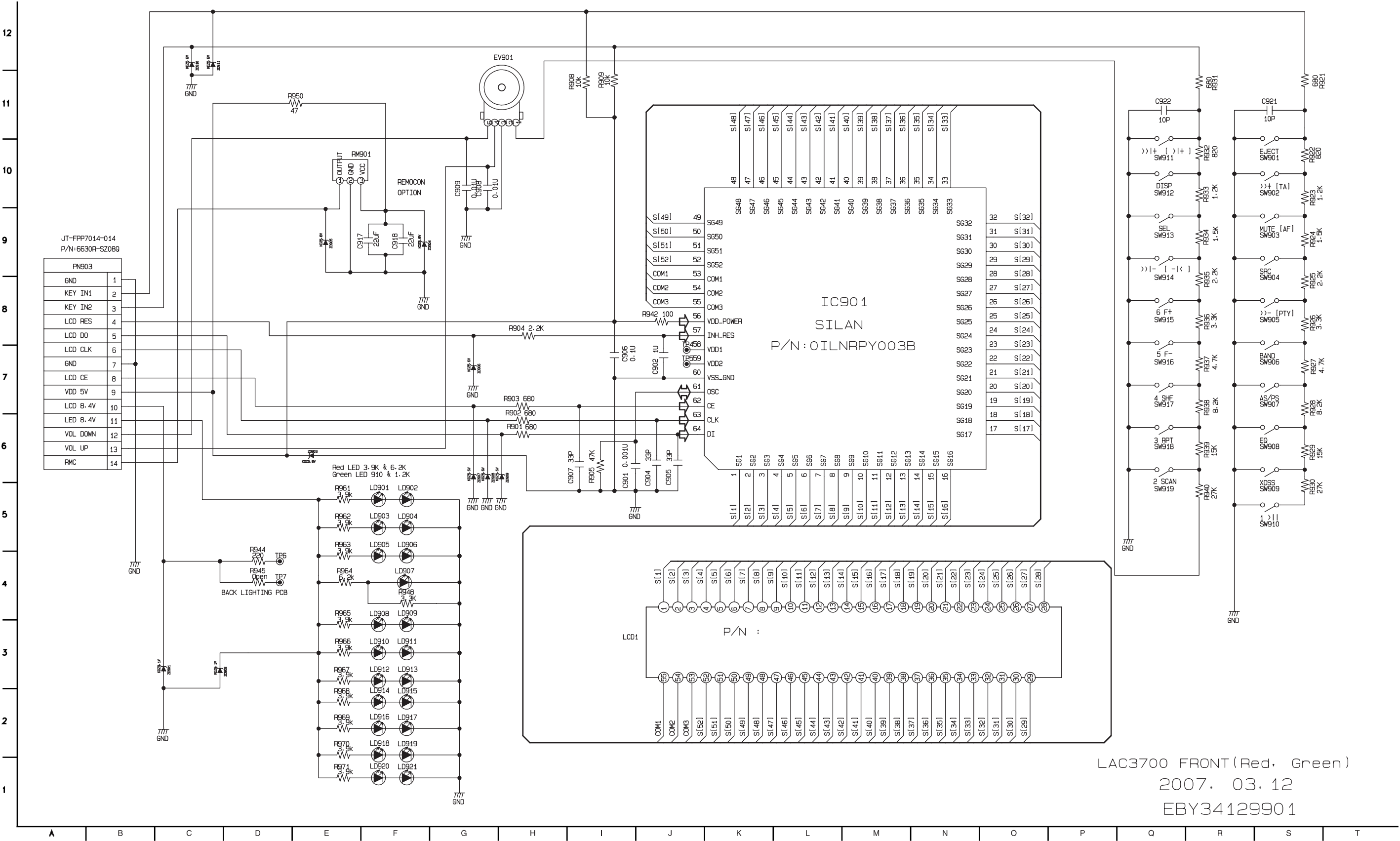


connector pin map change → 5V con

LAC3700W/4700W/5700W
2007 05 10 CDP PART
EBY36671801

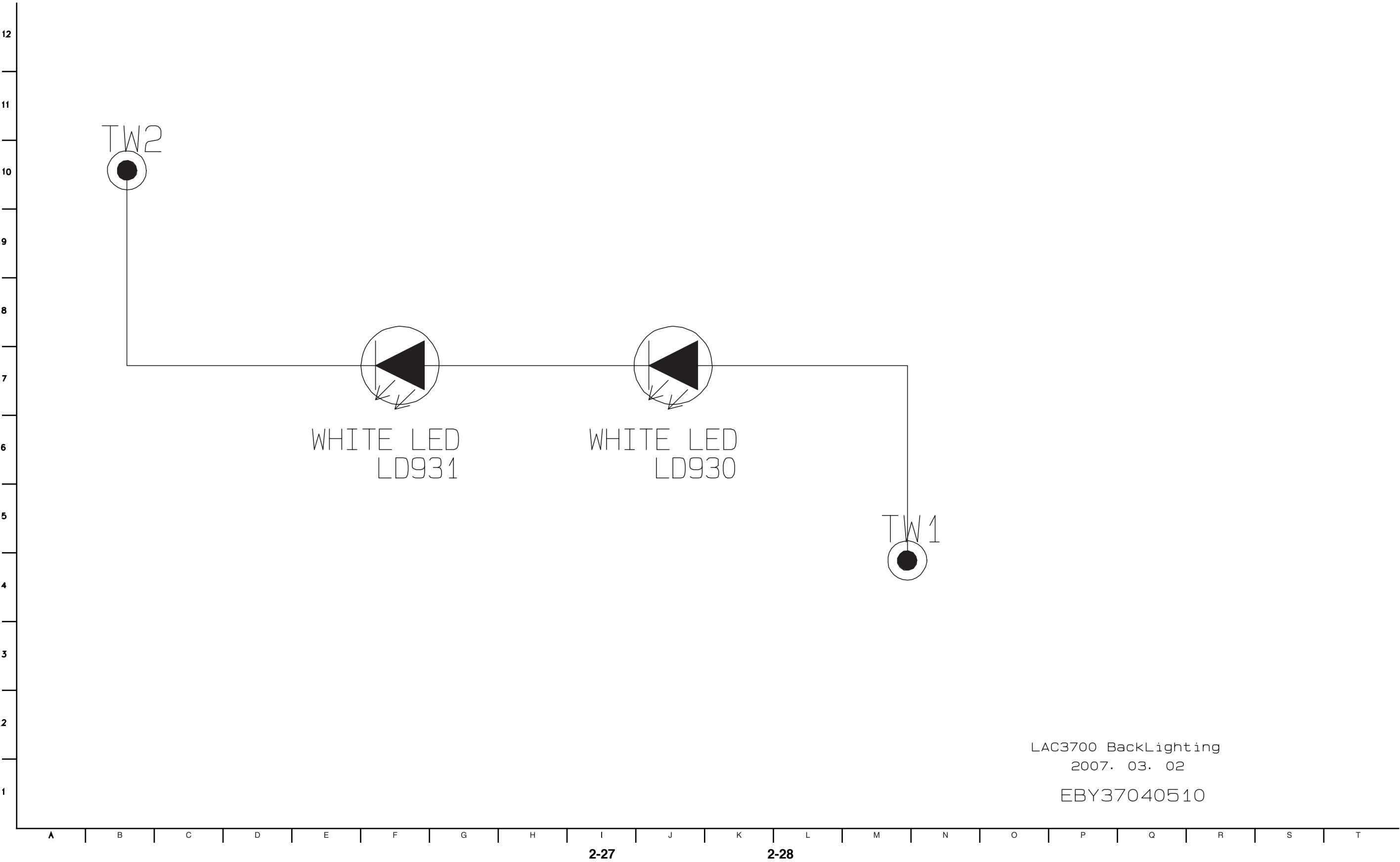
LAC3700W/4700W/5700W
2007 05 10 CDP PART
EBY36671801

3. FRONT CIRCUIT DIAGRAM



LAC3700 FRONT (Red, Green)
2007. 03. 12
EBY34129901

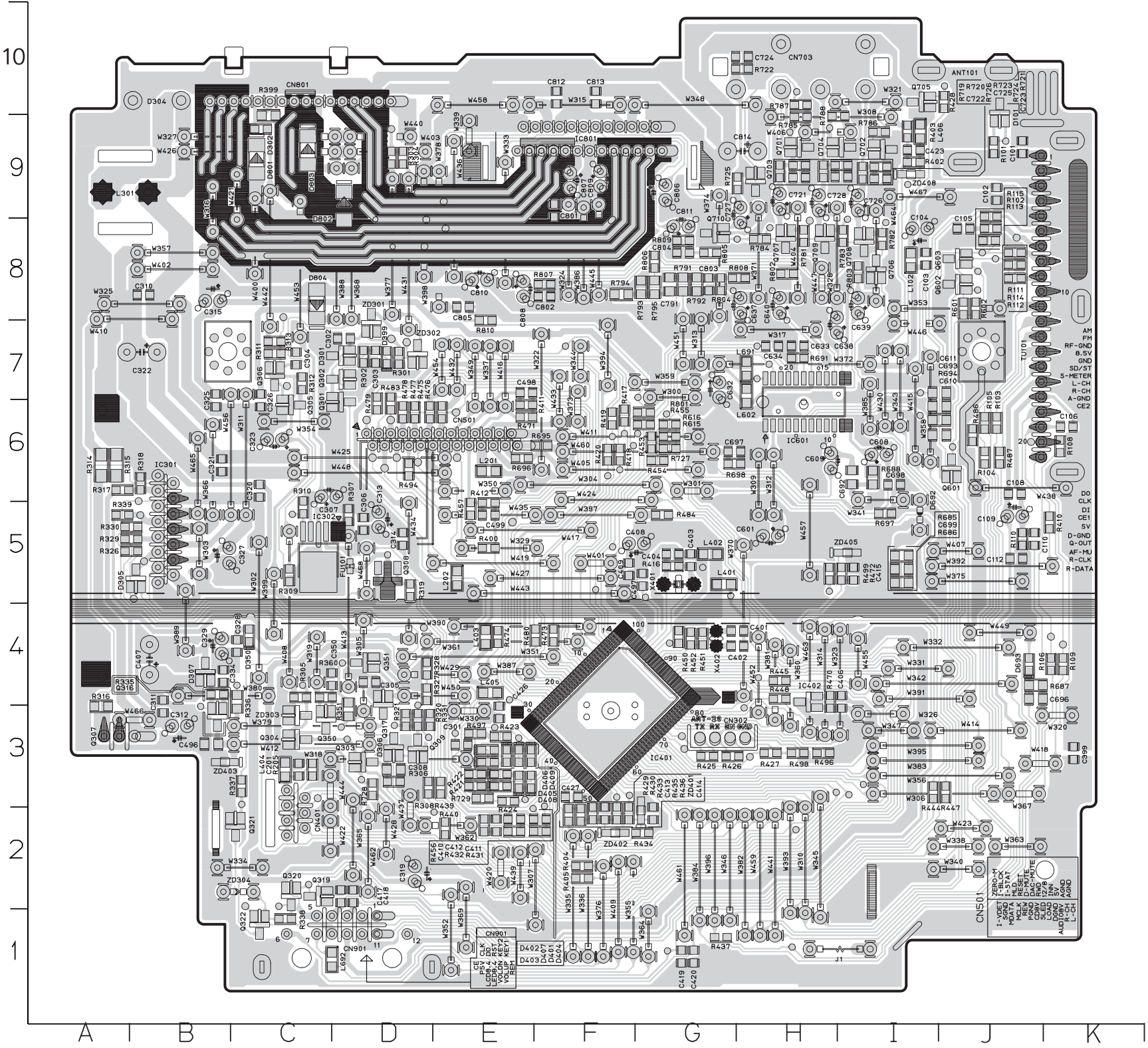
4. LCD LIGHTING CIRCUIT DIAGRAM



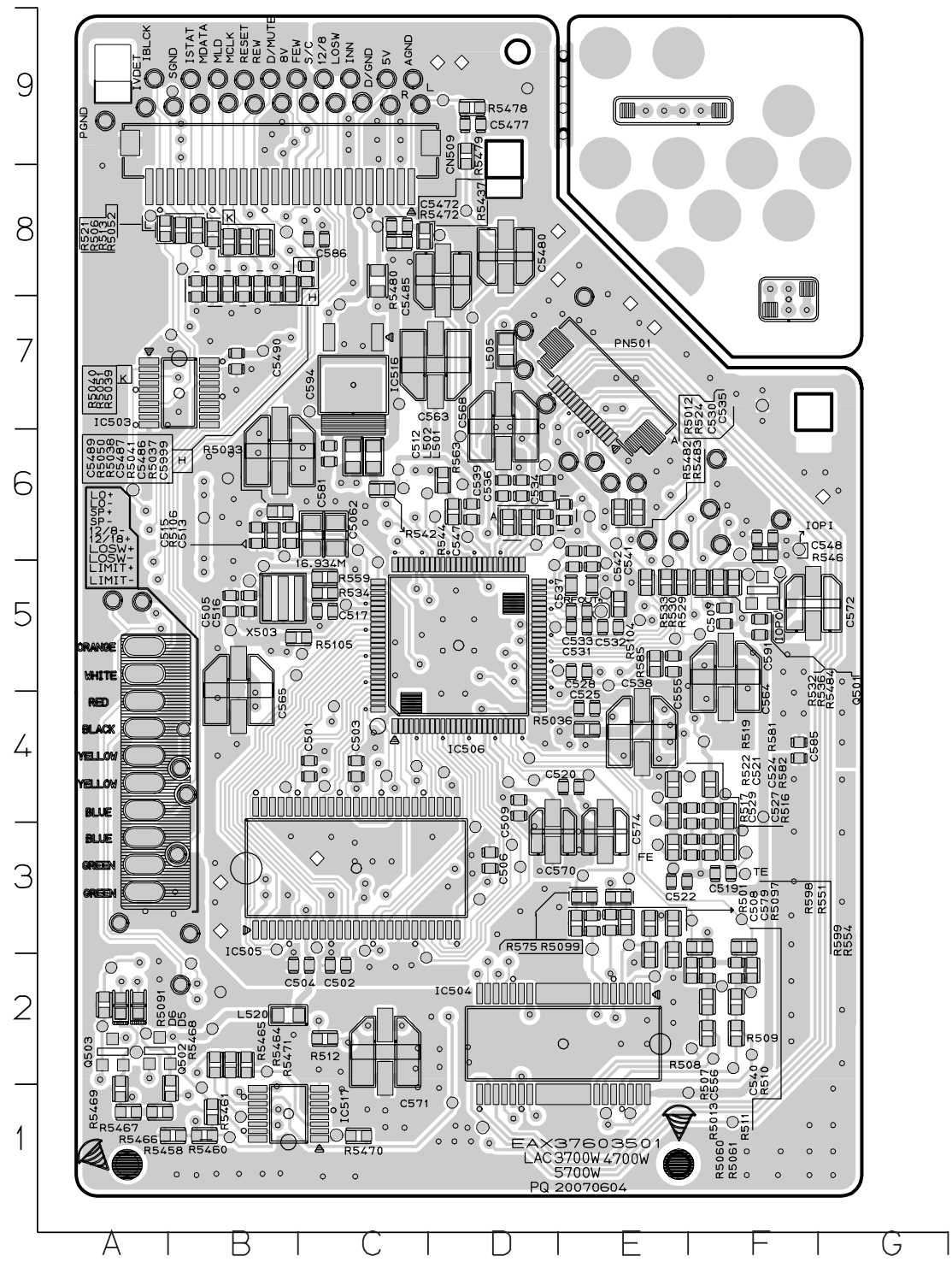
1. MAIN P.C.BOARD (TOP VIEW)



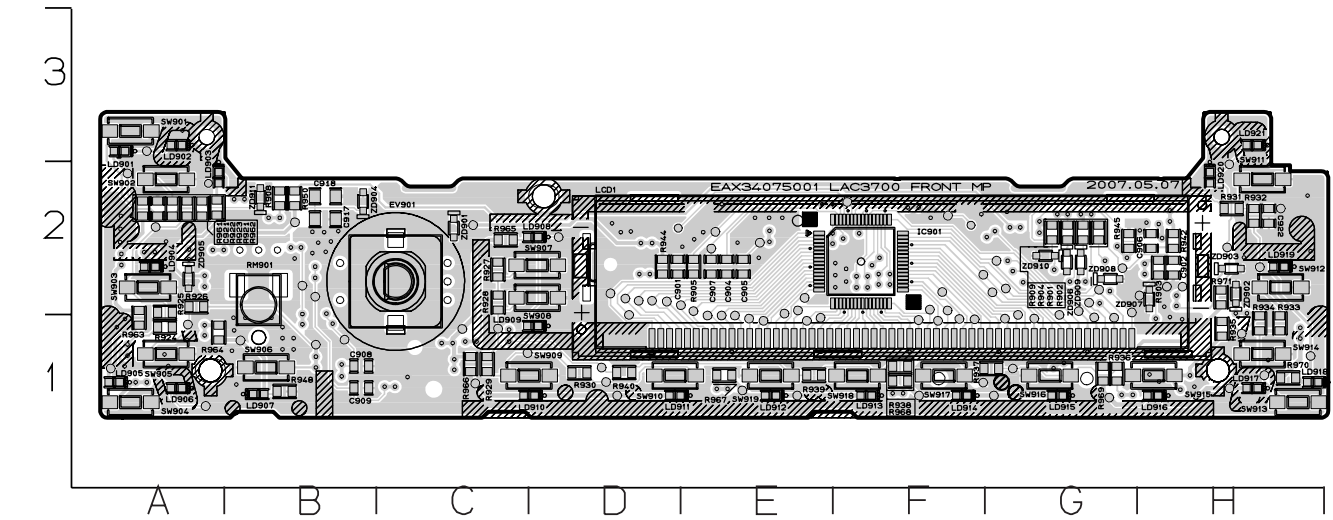
MAIN P.C.BOARD
(BOTTOM VIEW)



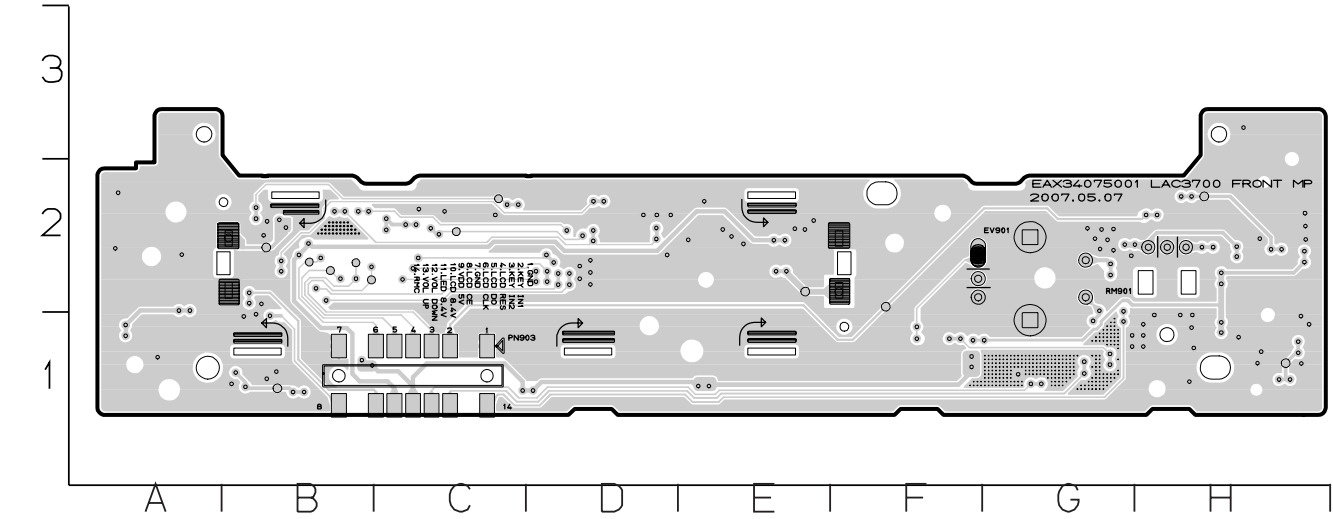
2. CDP P.C.BOARD



3. FRONT P.C.BOARD
(TOP VIEW)

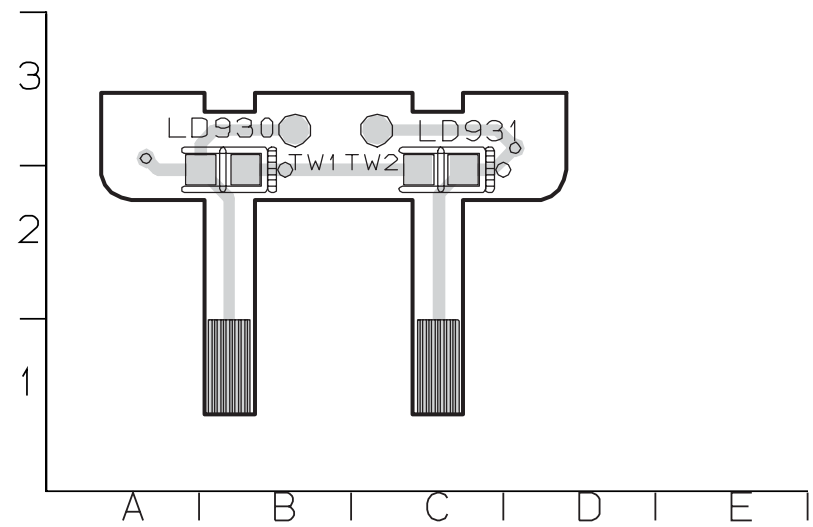


(BOTTOM VIEW)



MEMO

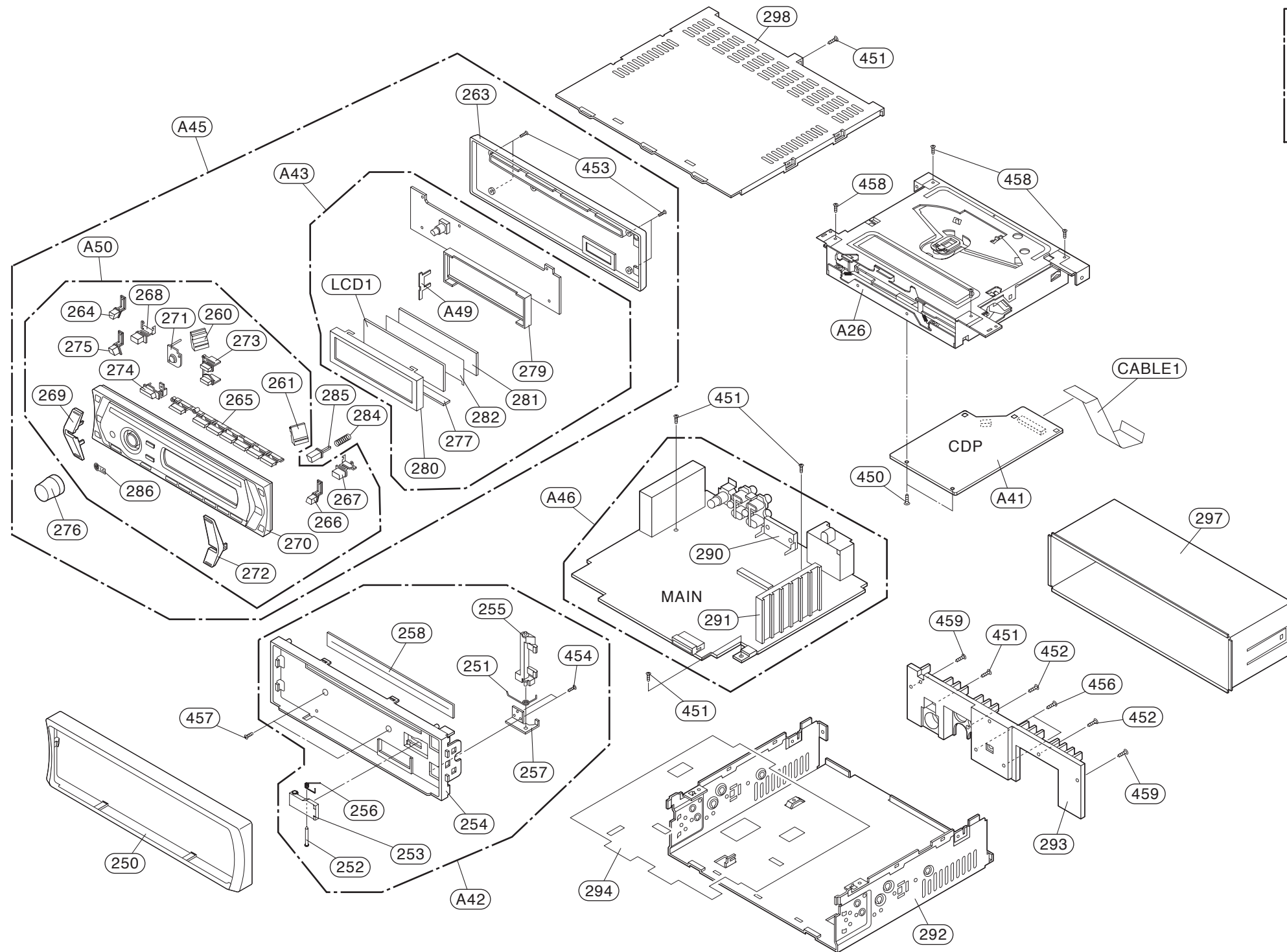
4. LCD LIGHTING P.C.BOARD



Handwriting practice lines consisting of 20 horizontal dotted lines.

SECTION 3 EXPLODED VIEWS

1. CABINET AND MAIN FRAME SECTION



Accessory

Loc.No. 801 	Loc.No. 818 	Loc.No. 850 
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