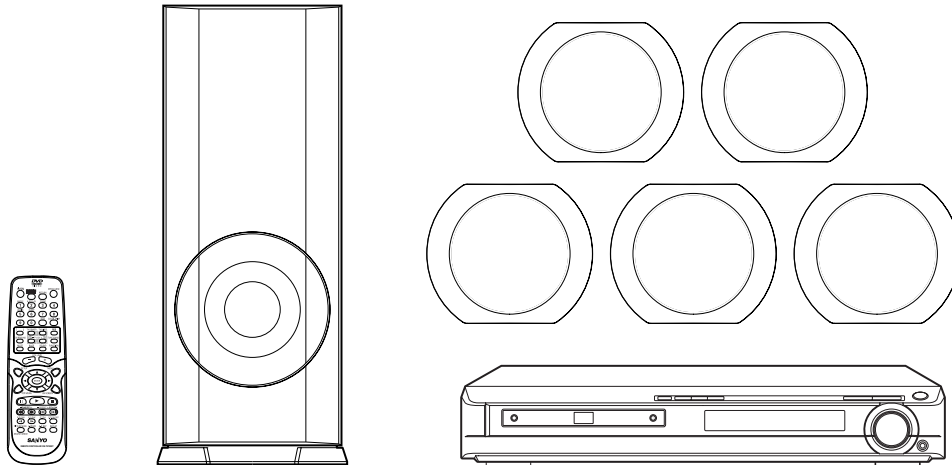


Service Manual

DVD Home Theater System

DC-TS760 (UK)
(XE)



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PRODUCT CODE No.
129 656 03 UK
129 656 04 XE

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SPECIFICATIONS

Amplifier

Main amplifier

Stereo mode

33 W x 2 (at 8 ohms, 10% distortion)

Dolby Digital mode

33 W x 2 (at 8 ohms, 10% distortion, with Centre/Surround/Subwoofer amplifier off)

Centre amplifier

33 W (at 8 ohms, 10% distortion, with Main/Surround/Subwoofer amplifier off)

Surround amplifier

33 W x 2 (at 8 ohms, 10% distortion, with Main/Centre/Subwoofer amplifier off)

Subwoofer amplifier

55 W (at 4 ohms, 10% distortion, with Main/Centre/Surround amplifier off)

Input:

VIDEO (AUDIO) IN: 500 mV/50 k Ω

Input/Output:

AV EURO/TV (AUDIO) IN (RGB OUT): For Euro-AV/Scart lead

Outputs:

SPEAKERS:

FRONT (L/R): 8 Ω

CENTER: 8 Ω

SURROUND (L/R): 8 Ω

SUBWOOFER: 4 Ω

MONITOR OUT:

S-VIDEO:

Y: 1.0 Vp-p (75 Ω)

C: 0.3 Vp-p (75 Ω) PAL, 0.286 Vp-p (75 Ω) NTSC

VIDEO: 1.0 Vp-p (75 Ω)

DVD Player

Type:

DVD video player

Playback standard:

PAL or NTSC

Laser:

Semiconductor laser, wavelength: 650/790 nm

Laser output (Continuous wave max.):

1 mW (DVD)

0.5 mW (CD)

Signal to noise ratio:

More than 105 dB

Wow and flutter:

Below measurable level

Tuner

Reception frequency:

FM: 87.5 - 108 MHz

AM: 522 - 1611 kHz

General

Power requirements:

AC 230 V, 50 Hz

Power consumption:

120 W

1.5 W (standby mode)

Dimensions:

435(W) x 65(H) x 378(D) mm

Weight:

5.6 kg

Speaker system

Front left, Front right, Centre, Surround left and Surround right speakers (SX-TS760S, magnetic shield)

Unit used:

8 cm cone type, full range

Maximum power handling capacity:

50 W (peak)

Nominal impedance:

8 Ω

Dimensions:

125(W) x 105(H) x 112(D) mm

Weight:

0.72 kg/speaker

Subwoofer (SX-TS760W)

Unit used:

13 cm cone type

Maximum power handling capacity:

80 W (peak)

Nominal impedance:

4 Ω

Dimensions:

160(W) x 395(H) x 305(D) mm

Weight:

4.6 kg

IMPORTANT INFORMATION

Because its products are subject to continuous improvement, SANYO reserves the right to modify product designs and specifications without notice and without incurring any obligation.

DVD MECHANISM REPLACEMENT

1. Cautionary instructions in handling the assy
(Safety instructions)
Optical pickup

The laser beam used in the pickup is classified as "class 2".
Exposing your eyes or skin to the beam is harmful. Take care not to do so.

(Caution against static electricity and leakage voltage)
Ground securely the work tables, tools, fixtures, soldering irons (including those made of ceramic) and measuring instruments used in the production lines and inspection departments that handle loaders. The workers shall also be grounded.

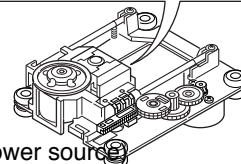
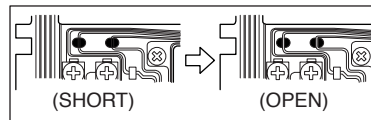
(Cautionary instructions in handling)
Do not touch the object lens when handling a loader, or the lens will be stained, resulting in inadequate playability.
There is no power supply protection circuit provided for this product or adjustment/inspection device. Short-circuiting may lead to fire or damage.
Take care so as to protect from exposure to water, the entry of metallic pieces or dew condensation.
In particular, a strong magnet adjacent to the pickup will not only get inoperative but can damage the pickup if a small metallic piece, such as a screw or swarm, enters.
The loader edge can cause injury if inadvertently handled.
Do not touch a rotating disk, or injury may result.

This product is a precision device. Handle carefully.
A shock or dropping will cause misalignment or destruction. If it should occur, refer to clause 2.
This product is so designed as to endure an initial shock equivalent to a drop from a height of approx. 90 cm under the packed condition.
After the initial shock, the resistivity will still remain at a level of 50 to 60 G, but the mechanical robustness will weaken.
Do not place in a dusty location.
The entry and deposition of dirt into or on the pickup lens or moving section will cause malfunction or degradation.

(Connectors)
Do not connect or disconnect while power is on.
Connecting or disconnecting signal wires or the main power cord when the power is on may destruct the unit or fixture.
When connecting, push all the way in securely.
An insufficient insertion may cause a bad contact, leading to an erroneous operation.
Do not connect or disconnect roughly by an excessively strong force, or a broken wire or bad contact may result.
Semiconductors are connected. Do not touch connector terminals directly.
If the worker is grounded, there is nothing to worry about static electricity, but the rust on the connector terminal surface caused by the touch may result in bad contact.

(Caution)

Before disconnecting FFC cable, make it "SHORT" as shown left.
After connecting FFC cable, make it "OPEN" as shown left.



(Power source)

The power source need be good in quality (free from instantaneous interruptions or noises).
A low quality power source may well cause malfunction.

(Storage)

Do not place or store in a dusty place or a place where dew condensation is possible.
The entry and deposition of dirt or dust into or on the pickup lens or moving section will cause malfunction or degradation.
Also, dew condensation causes rust; the rust penetrate into the precision part of a pickup, causing malfunction, or degrading the optical quality of the internal lens and reflector, which also leads to malfunction.

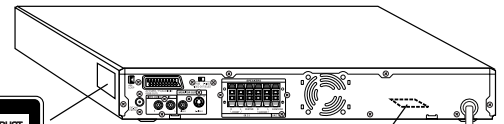
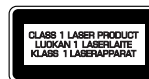
LASER BEAM SAFETY PRECAUTION

- Pick-up that emits a laser beam is used in this CD player section.

CAUTION :

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE

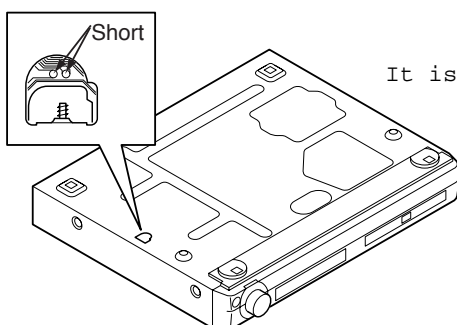
LASER OUTPUT 0.6 mW Max. (CW)
WAVELENGTH 790 nm



CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL - USYNLIG LASER STRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION, UND GÅ UDSÆTTELSE FOR STRÅLING.
VARNING - OSYNLIG LASER STRÅLNING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.
VORSICHT - UNSICHTBARE LASERSTRALUNG TRITTS AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITVERRIEGELUNG ÜBERBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.
VARO - AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.



RESET

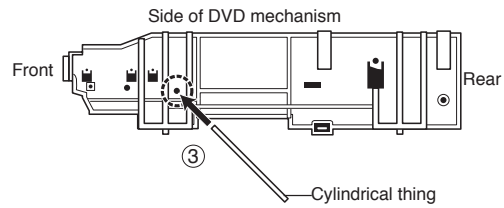
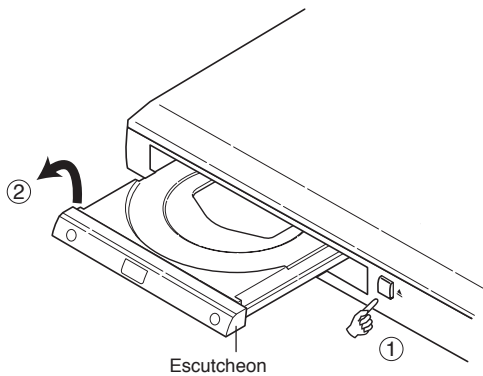


It is reset by short.

MECHANISM REPLACEMENT

1. How to Remove DVD Mechanism

First, it is necessary to remove Escutcheon.



How to remove Escutcheon.

An eject button is pushed and a tray is taken out.

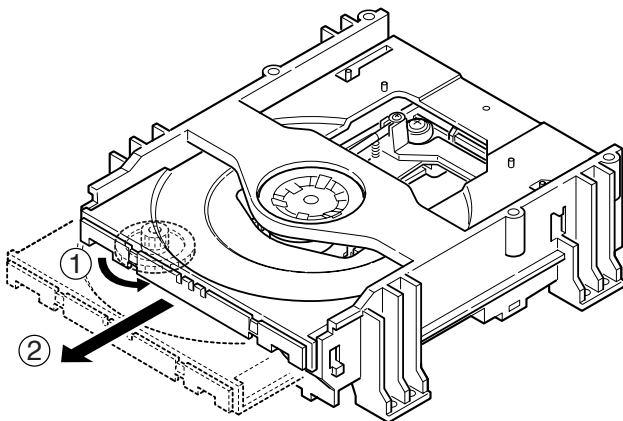
Please remove Escutcheon, as shown in the left figure (2).

When an eject button (1) does not function. Above figure

Please insert a cylindrical thing with a diameter of 3mm or less in the hole (3) in the side of a DVD mechanism.

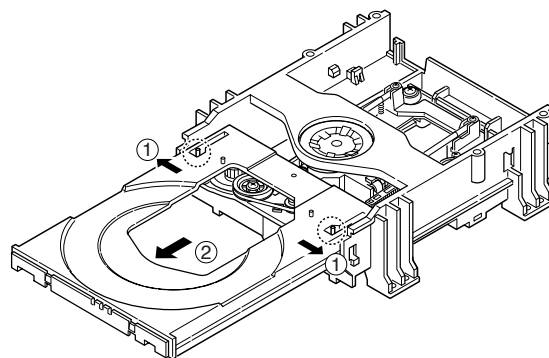
A tray is pushed out.

2. How to remove the tray.



Rotate the (1) gear.

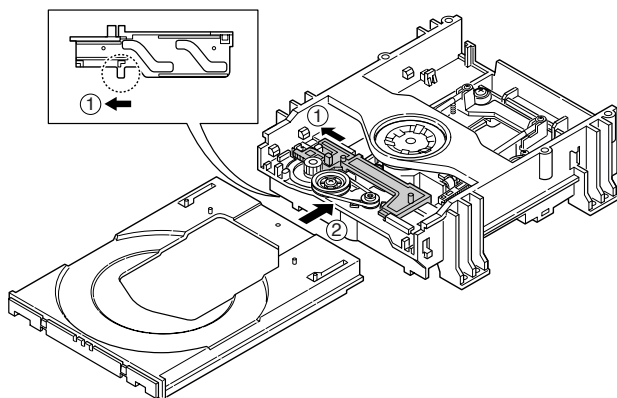
Move forward the (2) tray.



Move both the right and left (1) tray pins to the ends.

Remove the (2) tray.

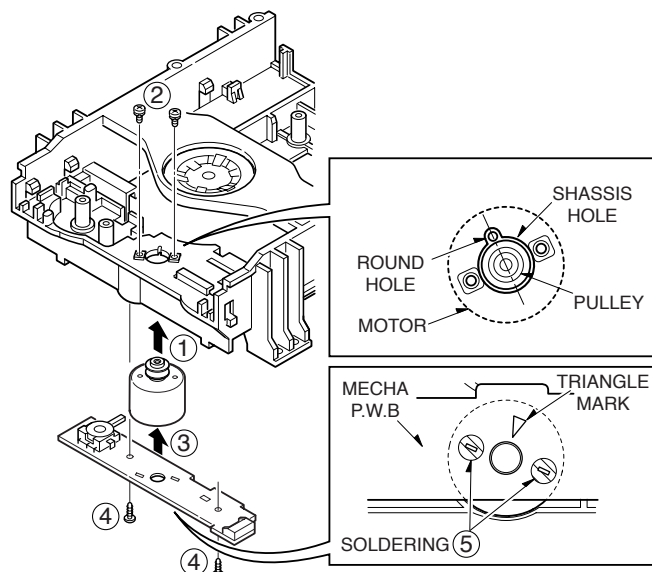
3. How to insert the tray.



Move the (1) slide to the left end.

Insert the (2) tray.

4. How to install the motor.

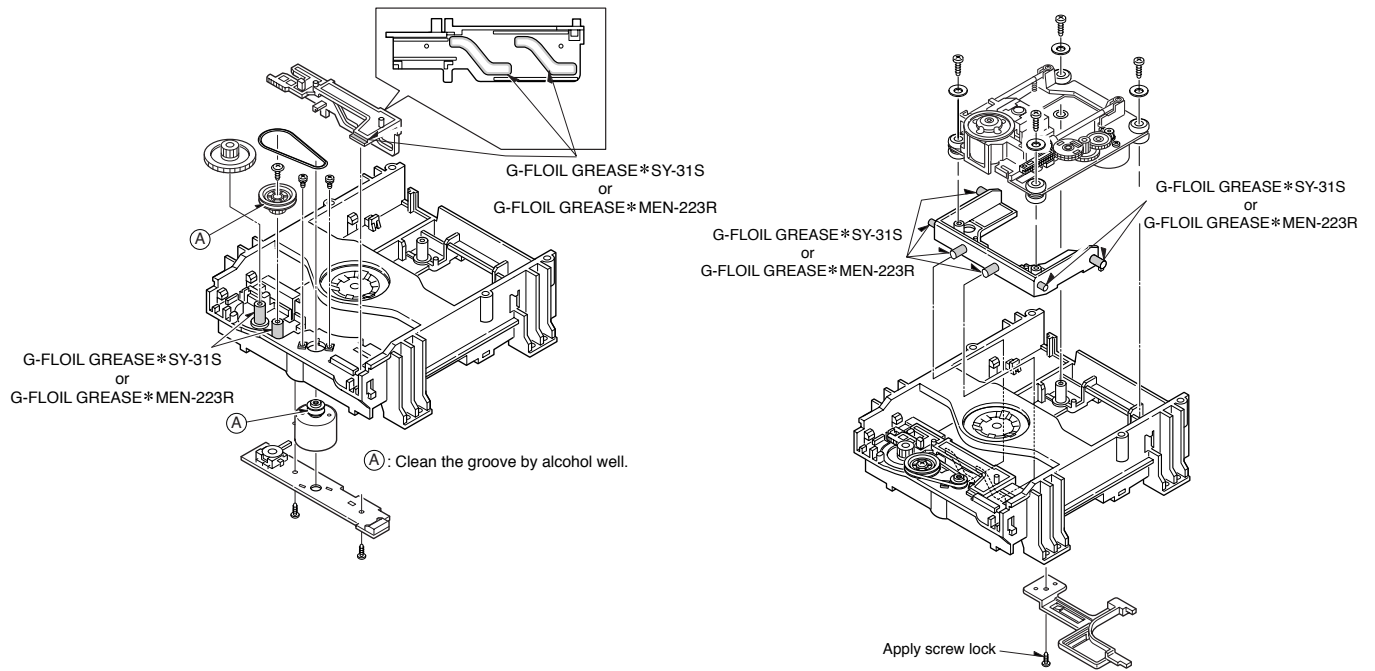


(1) Adjust the motor terminal to boss in the chassis.

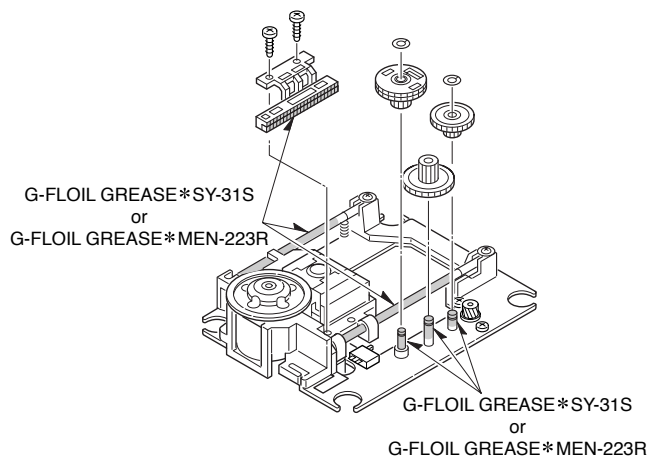
(2) Adjust the round hole of the motor to the triangle mark of P.W.B, and solder it.

MECHANISM REPLACEMENT

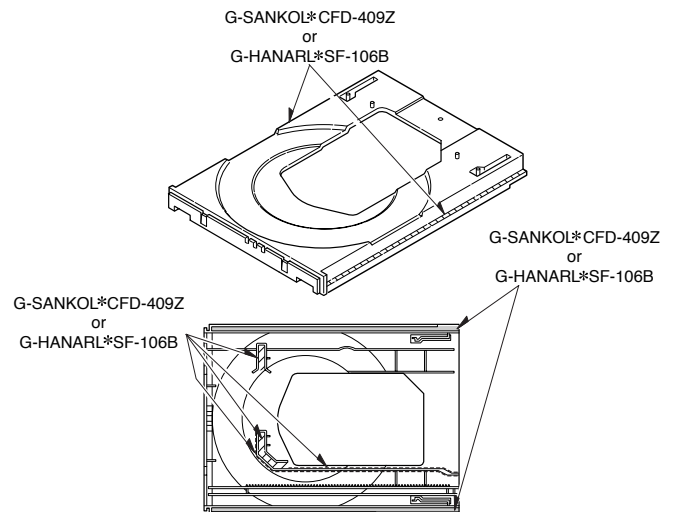
5. Base mechanism mounting parts.



6. Base mechanism parts.

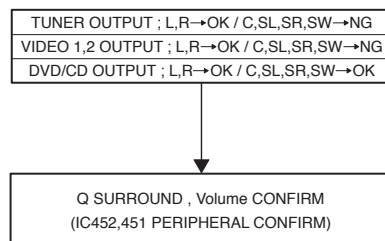
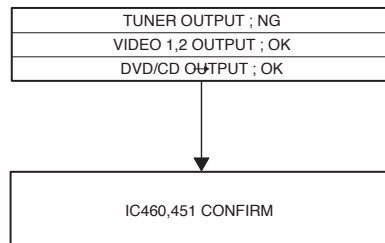
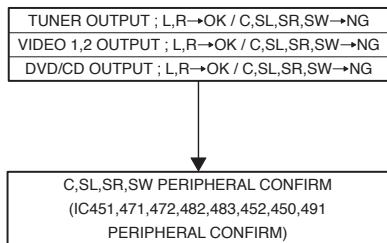
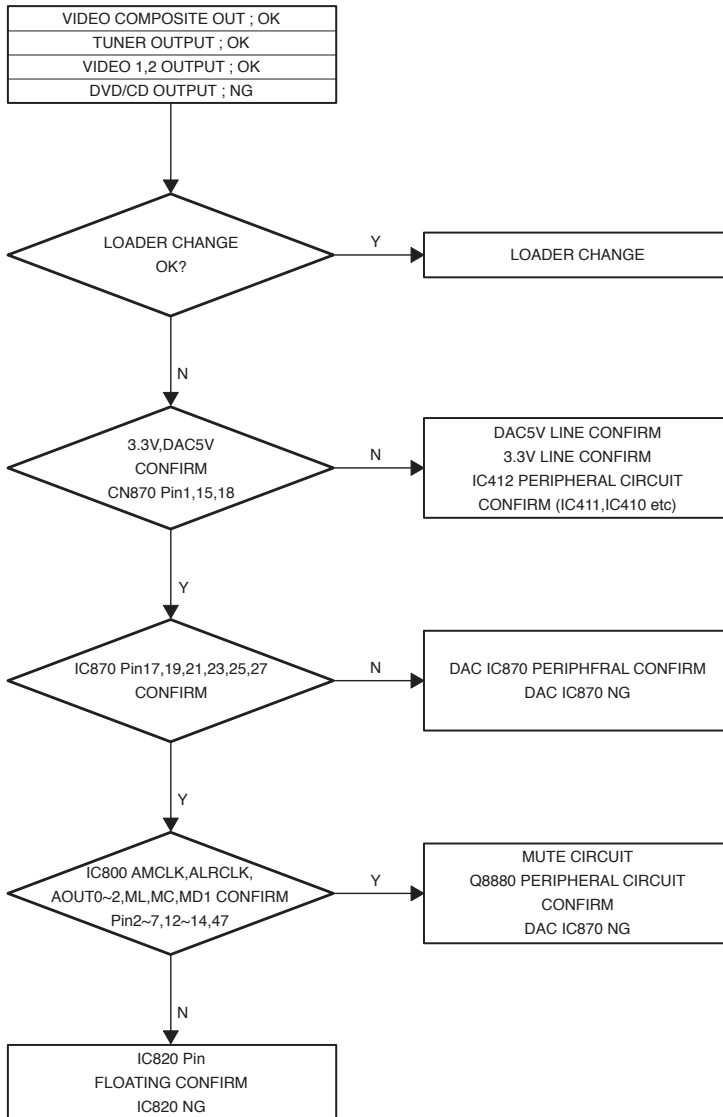


7. Tray parts.

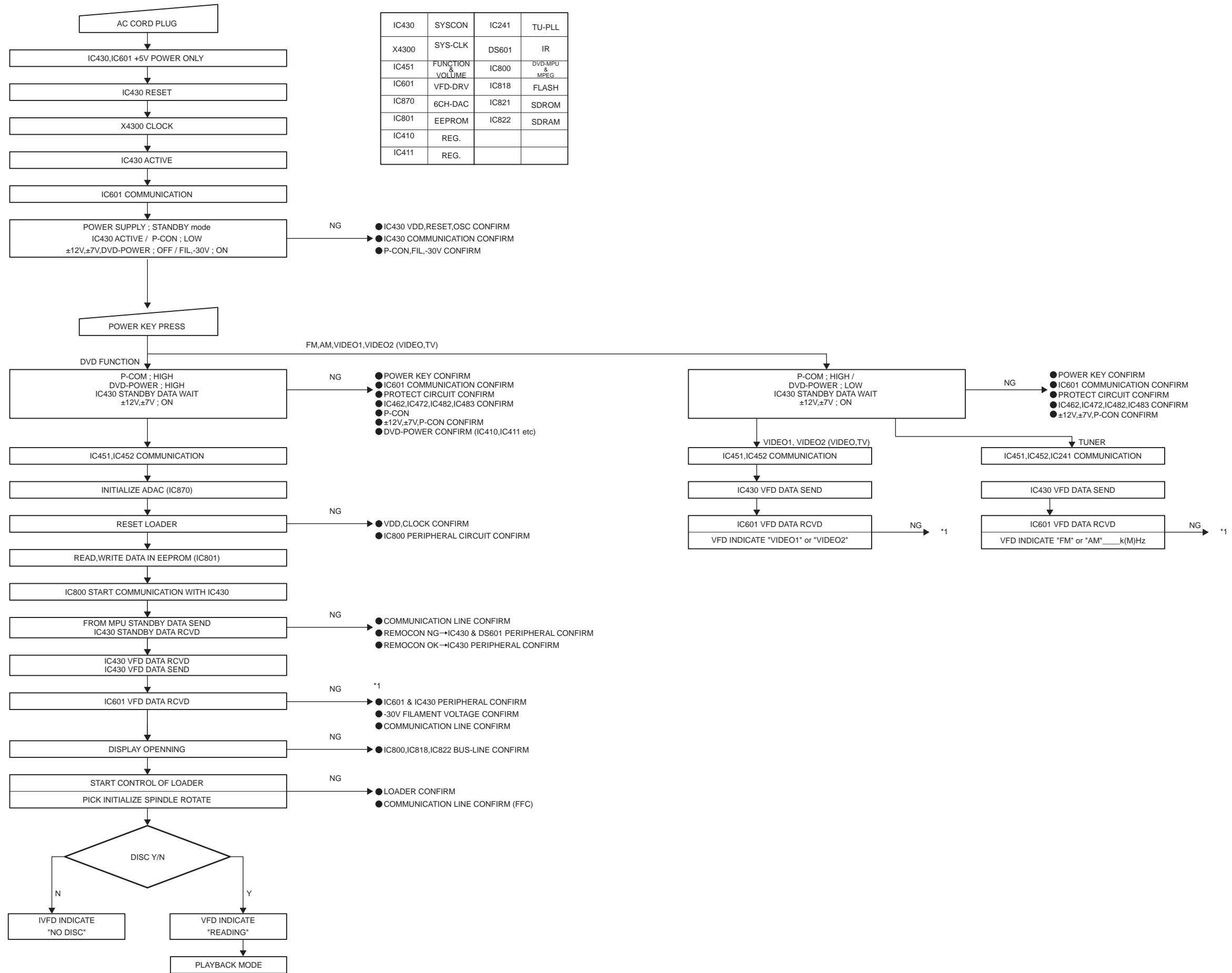


Do not remove the pick-up from base mechanism because of adjustment difficulty.

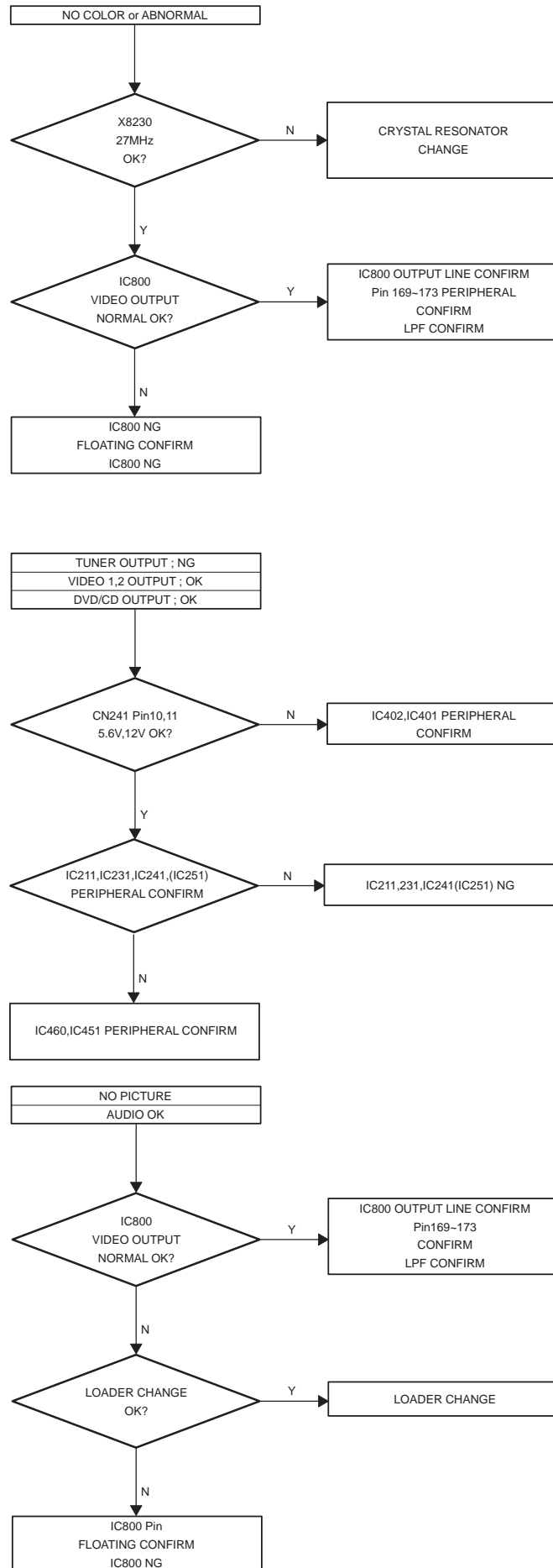
TROUBLE SHOOTING



TROUBLE SHOOTING



TROUBLE SHOOTING



SERVICE MODE

A. Market / Region SETUP

In the initial condition for this model, Market and Region information are undefined.

In the following cases, be sure to set up Market/Region.

1. When updating the system using CD-R
(Part code : 0PRADF9655--AA).

2. When replacing a DVD substrate.

While Market/Region information are undefined, the message "Region Undefined" is displayed on the screen.

NOTE: Even if the condition is not under 1 or 2 above, if the message "Region Undefined" is displayed, be sure to set up Market/Region.



Message under the Market/Region undefine condition

B. How to enter Service Mode.

You can enter Service Mode in any one of the following ways (1 to 3).

1. Pushing the covered key located beneath Book Mark key on RB-1500 or REM-S1500.

Location of the key
for entering
Service Mode



2. Simultaneously pushing both Shift key and ON SCREEN key on REM-TS760MT(US),RB-TS760MT(CA) or RB-TS760ST(UK,XE).

SERVICE MODE

C. Setup Procedures

1. Displaying SERVICE MODE screen

Display Service Mode screen following the instructions "How to enter Service Mode" above.



2. Displaying Internal Setup screen

Push NEXT button within three seconds after operating the Service Mode display.

On the Internal Setup screen shown on the right, set up Market and Region.

Model	Market	Region
DC-760/UK	UK	2
DC-760/XE	XE	2

Market/Region setup table.



3. Setting Market code

3.1. While a highlighted indicator is displayed on the right side of the Market denotation, push ENT button on the remote controller.

With each push the indicator will advance as shown below.

3.2. Specify the code of the model in accordance with the Market/Region Setup Table above.

3.3 Once the desired code is displayed, push ▼ button to move the highlighted indicator to the Region input area.

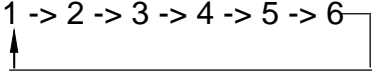


(Reference figure)

SERVICE MODE

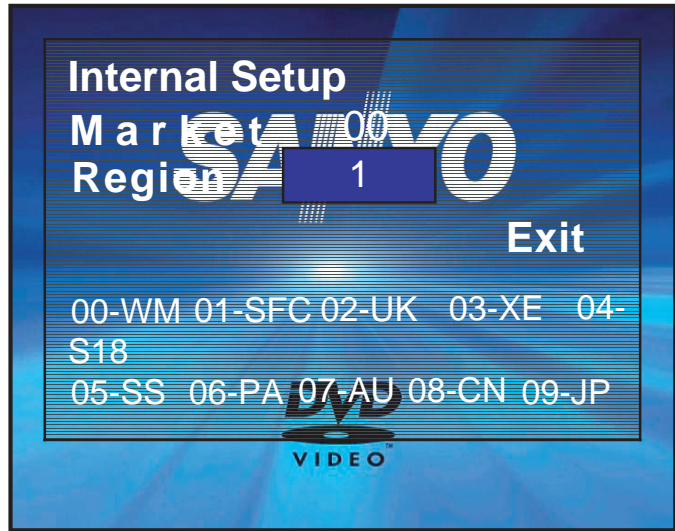
4. Setting REGION code

4.1 While a highlighted indicator is displayed on the right side of the Region denotation, push ENT button on the remote controller. With each push the indicator will advance as shown below.



4.2 Specify the number of the model in accordance with the Market/Region Setup Table above.

4.3 Once the desired number is displayed, push ▼ button to move the highlighted indicator to Exit area.



(Reference figure)

5. Saving settings

5.1 Make sure that the Market and Region settings are properly set.

(If any of the settings are incorrect, you can make a change by moving the indicator using ▼ button, and following procedures 3 and 4 above.)

5.2 After ensuring that the settings are all correct, push ENT button while the indicator is on Exit area. The settings are now saved.

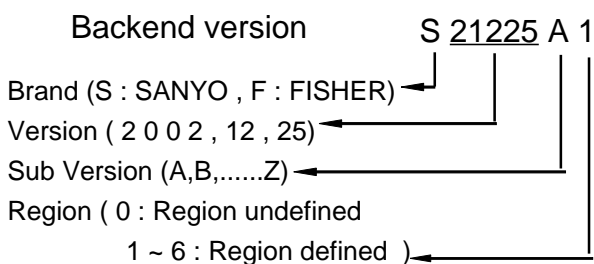


(Reference figure)

6. Finishing settings

6.1 After a few seconds, the Internal Setup screen disappears, and then the Service Mode screen is displayed again for three seconds as shown on the right.

You should check the settings.



(Reference figure)

6.2 Power OFF.

SERVICE MODE

D. IMPORTANT NOTE

1. Once the "Market/Region" settings are written into EEPROM (IC818) on the DVD substrate, they cannot be reset. (However, updating the system using CD-R enables you to make new settings.)
2. While the Internal Setup screen is displayed, pushing the Power button enables you to terminate the operations without making any settings.

HOW TO LOAD SOFTWARE FOR MPEG P.W.BOARD

1. Power on, then open tray.
2. It take on CD-ROM for UPDATE software to the tray, and tray close.
3. Display " READING " in the TV screen.
4. For the time being, tray open and FL display remain "UP DATING".
5. When software loading finished, FL display "GOODBY".
6. Next, set up market code and region code by "SERVICE MODE"
CD-ROM part code is "OPRADF9655--AA".

CAUTION

After an MAIN board(614 326 0172) or IC ASSY(410 469 7906) exchange should carry out loading of the software by the newest CD-R, and should check operation.

TUNER ADJUSTMENTS

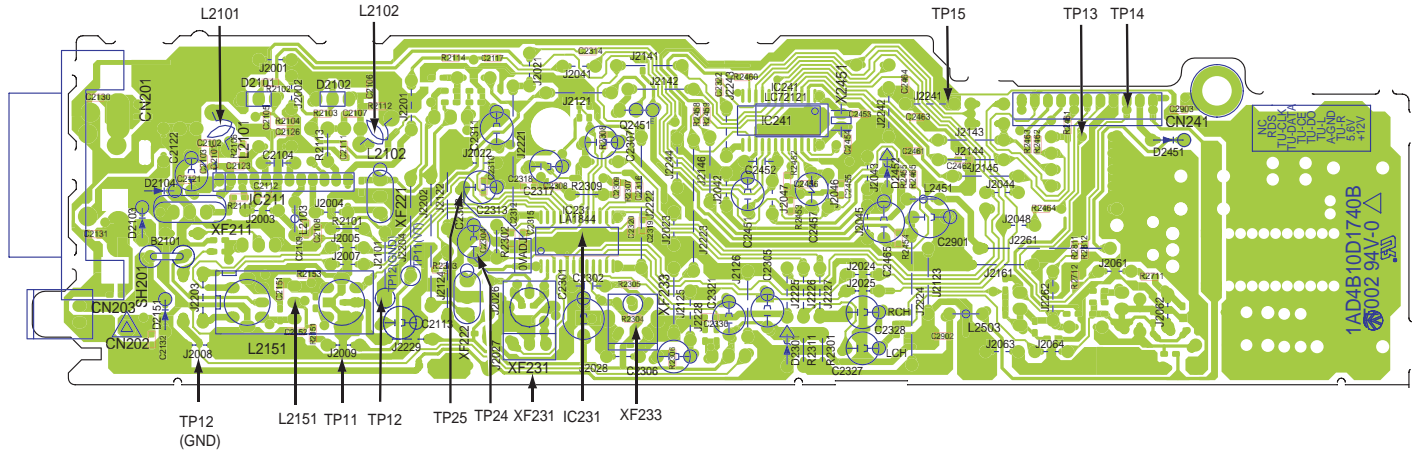
- Use a plastic screw driver for adjustments.

SG RF Level : 75Ω open Voltage dBμV

Antenna : 75Ω unbalanced Direct, Modulation : 1 kHz

Dev. : ±22.5kHz(MONO) , ±22.5kHz(STEREO) , ±6.75kHz(PILOT)

Output Level : about 100mV at TP13,TP14,TP15



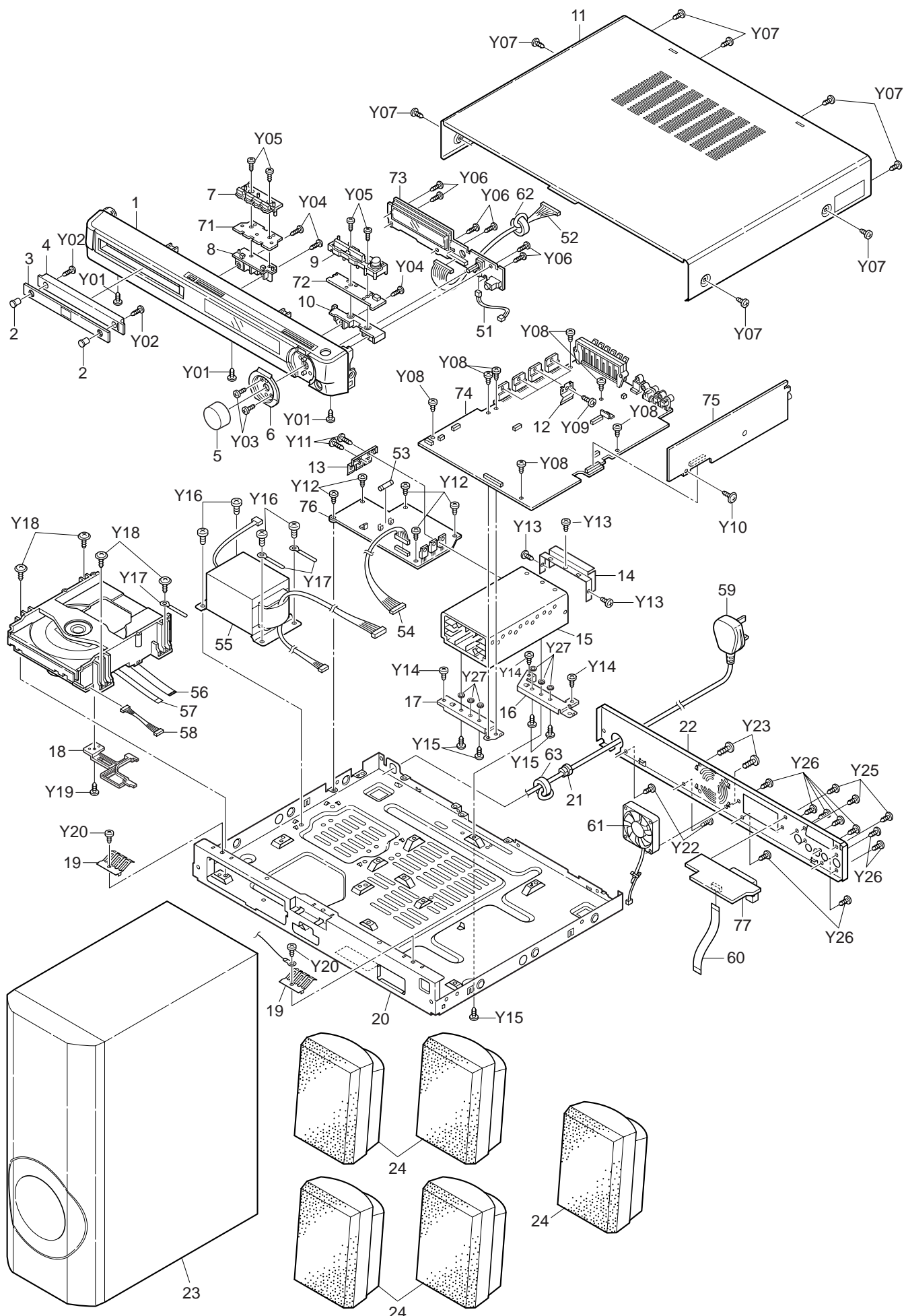
1. FM

Step	Adjusting Circuit	Connection		SG Frequency	Set Position	Adjustment	Remark
		Input	Output				
1	IF Alignment	FM ANT. SG=66dBμV	IC231 3,22pin TP24, TP25	98.0MHz	---	XF233	0.0 ± 0.05V
2	Cover voltage	---	Connect Digital DC voltmeter to TP11(H), TP12(E).	87.5MHz	Low	L2102	Alignment voltage is more than 0.8V.
		---		108.0MHz	High		Confirm voltage is less than 9.0V.
3	Tracking	Connect FM SG to FM Antenna (SG= about 8dBμV)	Connect to VTVM TP13(L) or TP14(R), TP15(E)	90.0MHz	Low	L2101	Max.
				106.0MHz	High		

2. AM

Step	Adjusting Circuit	Connection		SG Frequency	Set Position	Adjustment	Remark
		Input	Output				
1	IF Alignment	Loop Ant.	IC231 19pin(DCCUT) TP26(GND)	522kHz		XF231	
2	Cover voltage	---	Connect Digital DC voltmeter to TP11(H), TP12(E).	522kHz	Low	---	more than 0.8V
		---		1611 kHz	High	---	less than 9.0V
3	Tracking	Connect AM SG to Test loop Ant. (SG= About 80dBμV)	Connect to VTVM TP13(L) or TP14(R), TP15(E).	603kHz	Low	L2151-a	Max.
				1404kHz	High		

EXPLODED VIEW (CABINET & CHASSIS)



PARTS LIST

PRODUCT SAFETY NOTICE

EACH PRECAUTION IN THIS MANUAL SHOULD BE FOLLOWED DURING SERVICING. COMPONENTS IDENTIFIED WITH THE IEC SYMBOL Δ IN THE PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATED COMPONENTS IN WHICH SAFETY AND PERFORMANCE CAN BE OF SPECIAL SIGNIFICANCE. WHEN REPLACING A COMPONENT IDENTIFIED BY Δ , USE ONLY THE REPLACEMENT PARTS DESIGNATED, OR PARTS WITH THE SAME RATINGS OF RESISTANCE, WATTAGE OR VOLTAGE THAT ARE DESIGNATED IN THE PARTS LIST IN THIS MANUAL. LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS MUST BE MADE TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE PRODUCT TO THE CUSTOMER.

CAUTION : Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.
 Regular type resistors are less than 1/4 W carbon type and chip resistors.
 Regular type capacitors are less than 50 V and less than 1000 μ F type of Ceramic type and Electrical type.

PACKING & ACCESSORIES

REF.NO.	PART NO.	DESCRIPTION
	645 020 7020	ASSY,ANTENA,LOOP
	645 041 1373	CABLE,VIDEO
	614 326 6754	CARTON CASE,INNER(UK)
	614 326 6761	CARTON CASE,INNER(XE)
	614 325 9237	CUSHION,LEFT
	614 325 9244	CUSHION,RIGHT
	614 326 6778	INSTRUCTION MANUAL(UK)
	614 326 6785	INSTRUCTION MANUAL(XE)
	614 326 6792	INSTRUCTION MANUAL,GREEK(XE)
	645 052 1621	POLY BAG,VIDEO/AUDIO(UK)
	645 048 2182	POLY BAG,VIDEO/AUDIO(XE)
	645 052 1416	POLY BAG,AC CORD(UK)
	645 012 2958	POLY BAG,INST MANUAL(UK)
	645 013 6535	POLY BAG,INST MANUAL(XE)
	645 048 1994	POLY SHEET,SET(UK)
	645 045 3540	POLY SHEET,SET(XE)
	645 058 1113	REMOCON,RB-TS760ST
	614 229 4635	ANT,FM ANT
or	614 308 5515	ANT,FM ANT
	645 048 5053	BATTERY COVER,BATTERY COVER
or	645 043 9735	BATTERY COVER,SERVICE PART
23	614 326 6563	ASSY,BOX,SPEAKER, SUB WOOFER,SX-TS760W(UK(UK)
23	614 326 6570	ASSY,BOX,SPEAKER, SUB WOOFER,SX-TS760W(XE(XE)
24	614 326 6549	ASSY,BOX,SPEAKER, SATELLITE,SX-TS760S(UK(UK)
24	614 326 6556	ASSY,BOX,SPEAKER, SATELLITE,SX-TS760S(XE(XE)

REF.NO.	PART NO.	DESCRIPTION
19	614 313 6545	SPRING,PLATE,EARTH
20	614 325 5604	ASSY,CABINET,BOTTOM
21	614 129 1901	FIXER,AC CORD
or	614 284 1884	FIXER,AC CORD
or	614 129 4971	FIXER,AC CORD
22	614 326 0349	PANEL,REAR,INT(UK)
22	614 326 3913	PANEL,REAR,INT(XE)

FIXING PARTS

REF.NO.	PART NO.	DESCRIPTION
Y01	411 021 6405	SCR S-TPG BIN 3X8, CABINET FRONT-BOTTOM
Y02	411 098 4700	SCR S-TPG BIN 2.3X8, DEC ESC-TRAY
Y03	411 098 4700	SCR S-TPG BIN 2.3X8, CABINET FRONT-ESC VOL
Y04	411 098 4700	SCR S-TPG BIN 2.3X8, PWB-BUTTON FUNCTION
Y05	411 098 4700	SCR S-TPG BIN 2.3X8, PWB-BUTTON POWER
Y06	411 098 4700	SCR S-TPG BIN 2.3X8, CABINET FRONT-PWB FIX
Y07	411 098 4205	SCR S-TPG BIN 3X8,CABINET
Y08	411 021 6405	SCR S-TPG BIN 3X8,MAIN PWB
Y09	411 021 6405	SCR S-TPG BIN 3X8, HOLDER H/S-HEAT SINK
Y10	411 020 9902	SCR S-TPG BRZ+FLG 3X8, TUN PWB
Y11	411 021 6405	SCR S-TPG BIN 3X8, HOLDER H/S-PWB
Y12	411 021 6405	SCR S-TPG BIN 3X8,POWER PWB
Y13	411 021 6405	SCR S-TPG BIN 3X8, COVER FAN-HEAT SINK
Y14	411 021 6405	SCR S-TPG BIN 3X8, HOLDER H/S-BOTTOM
Y15	411 021 6405	SCR S-TPG BIN 3X8, HOLDER H/S-BOTTOM
Y16	411 001 3905	SCR S-TPG BIN 4X6,PT
Y17	614 130 0382	LUG,LEAD TREATMENT
Y18	411 020 9803	SCR S-TPG BRZ+FLG 3X6, DVD MECHA
Y19	411 021 2704	SCR S-TPG BIN 2.6X6,MOUNTING
Y20	411 021 6405	SCR S-TPG BIN 3X8, EARTH SPRING PLATE
Y22	411 021 3701	SCR S-TPG BIN 3X10, REAR-VIDEO OUT PWB
Y23	411 182 7501	SCR S-TPG BIN 5X16, FAN-PANEL REAR
Y25	411 021 3701	SCR S-TPG BIN 3X10, BOTTOM-REAR
Y26	411 021 3701	SCR S-TPG BIN 3X10, REAR-ELECT PART
Y27	412 011 5903	SPECIAL WASHER, HOLDER HEAT SINK

CABINET & CHASSIS

REF.NO.	PART NO.	DESCRIPTION
1	614 326 0271	ASSY,CABINET,FRONT
2	614 325 8223	CAP,DVD TRAY
3	614 327 1710	ASSY,DEC, ESCUTCHEON TRAY(UK)
3	614 326 3517	ASSY,DEC, ESCUTCHEON TRAY(XE)
4	614 325 5680	DEC,DVD TRAY
5	614 322 4839	KNOB,ROTARY,VOLUME
6	614 325 5703	DEC,ESCUTCHEON VOL
7	614 325 5628	BUTTON,FUNCTION,FUNCTION
8	614 325 5765	MOUNTING,BUTTON FUNCTION
9	614 325 5611	BUTTON,POWER,POWER /PLAY
10	614 325 5758	MOUNTING,BUTTON POWER
11	614 325 5635	CABINET,TOP/SIDE
12	614 316 1417	MOUNTING,IC,IC-HEAT SINK
13	614 291 6568	MOUNTING,PWB,IC-HEAT SINK
14	614 325 5666	COVER,FAN
or	645 001 0415	T-VINYL*223S,FAN COVER
15	614 325 5727	HEAT SINK
16	614 322 4815	HOLDER,REAR,HEAT SINK
17	614 322 4822	HOLDER,BOTTOM,HEAT SINK
18	614 322 5997	MOUNTING,FFC,MOUNTING
or	614 320 5852	MOUNTING,FFC,MOUNTING

PARTS LIST

ELECTRICAL-PARTS

REF.NO.	PART NO.	DESCRIPTION
51	614 325 7721	ASSY,WIRE,FRONT_SW1
52	614 325 7714	ASSY,WIRE,MAIN_FRONT
53	△423 028 8405	FUSE 250V 1.6A
54	614 325 7707	ASSY,WIRE,MAIN_DG
55	△645 057 9103	TRANS,POWER
56	645 058 3445	FLEXIBLE FLAT CABLE,PICK-FFC
or	645 053 8384	FLEXIBLE FLAT CABLE,PICK-FFC
57	645 058 3452	FLEXIBLE FLAT CABLE,IF-FFC
or	645 056 3010	FLEXIBLE FLAT CABLE,IF-FFC
58	614 323 3237	ASSY,WIRE,LOADING-DVD
59	△645 054 0233	CORD,POWER-1.6MK(UK)
or	△645 036 9797	CORD,POWER-1.6MK(UK)
or	△645 036 9803	CORD,POWER-1.6MK(UK)
59	△645 016 9939	CORD,POWER-1.74MK,FOR XE(XE)
or	△614 255 2513	POWER CORD,FOR XE(XE)
60	645 058 3476	FLEXIBLE FLAT CABLE, MAIN-SCART
or	645 054 3159	FLEXIBLE FLAT CABLE, MAIN-SCART
61	645 053 3853	MOTOR,FAN DC 0.84W,FAN
62	645 051 0656	CORE,FERRITE
or	645 042 8999	CORE,FERRITE
63	645 051 0649	CORE,FERRITE
or	645 031 7637	CORE,FERRITE

SW2,BUTTON P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
71	614 325 6205	ASSY,PWB,SW2,BUTTON (Only initial)
C6201	403 157 3601	CERAMIC 100P J 50V
CN621	614 035 4911	SOCKET,DIP 2P
S6201	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6202	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6203	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6204	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT

SW1,BUTTON P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
72	614 325 6199	ASSY,PWB,SW1,BUTTON (Only initial)
CN611	614 310 2595	PLUG,3P
or	645 005 8226	PLUG,3P
CN612	614 035 4911	SOCKET,DIP 2P
S6101	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6102	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
S6103	645 037 2759	SWITCH,PUSH
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT

FRONT P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
73	614 325 6168	ASSY,PWB,FRONT(Only initial)
BR601	614 325 5734	HOLDER,FL
CN602	645 016 9809	PLUG,16P,FRONT-MAIN
CN603	614 310 2595	PLUG,3P
or	645 005 8226	PLUG,3P
CN605	645 012 0008	JACK,PHONE D3.6
DS601	407 205 1205	PHOTO DIODE SPS-440-1-E
or	407 232 4002	PHOTO DIODE SPS-440-1-VG
FL601	645 057 2043	FLOURESCENT TUBE
IC601	410 427 6507	IC MPD16315GB-3BS
or	409 519 6907	IC PT6315
L6051	645 001 4550	INDUCTOR,10U K
L6052	645 006 9864	INDUCTOR,80U
or	645 058 8839	INDUCTOR,80U
L6053	645 006 9864	INDUCTOR,80U
or	645 058 8839	INDUCTOR,80U
LG601	614 129 9082	LUG,FRONT-BOTTOM
R6031	△401 019 9501	CARBON 47 JA 1/4W
S6001	645 048 1727	SWITCH,ROTARY(ENCODER)
SG601	645 055 3202	SURGE-ABSORBER
SG602	645 055 3202	SURGE-ABSORBER
SG603	645 055 3202	SURGE-ABSORBER

MAIN,AMP-DVD P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
74	614 326 0172	ASSY,PWB,MAIN,AMP_DVD (Only initial)
C1900	△403 373 7902	ELECT 150U M 6.3V
C1911	△403 373 7902	ELECT 150U M 6.3V
C4102	403 325 0302	ELECT 2200U M 25V
C4103	403 325 0302	ELECT 2200U M 25V
C4108	403 325 9701	ELECT 4700U M 25V
C4109	403 325 2306	ELECT 4700U M 35V
C4110	403 325 2306	ELECT 4700U M 35V
C4120	△403 370 7004	ELECT 330U M 6.3V
C4128	△403 373 8404	ELECT 220U M 10V
C4130	△P403 373 9302	ELECT 100U M 25V
C4199	403 359 3805	ELECT 2200U M 10V
or	403 359 3805	ELECT 2200U M 10V
or	403 330 2001	ELECT 2200U M 16V
C4300	△403 369 2805	DL-ELECT 0.047F Z 5.5V
or	△403 262 8607	DL-ELECT 0.047F Z 5.5V
or	△403 304 4802	DL-ELECT 0.047F Z 5.5V
C4648	403 184 9805	MT-POLYEST 0.22U J 50V
C4649	403 184 9805	MT-POLYEST 0.22U J 50V
C4651	403 184 9805	MT-POLYEST 0.22U J 50V
C4652	403 184 9805	MT-POLYEST 0.22U J 50V
C4653	403 184 9300	MT-POLYEST 0.047U J 50V
C4654	403 184 9300	MT-POLYEST 0.047U J 50V
C4748	403 184 9805	MT-POLYEST 0.22U J 50V
C4749	403 184 9805	MT-POLYEST 0.22U J 50V
C4751	403 184 9805	MT-POLYEST 0.22U J 50V
C4752	403 184 9805	MT-POLYEST 0.22U J 50V
C4755	△403 374 0001	ELECT 33U M 35V
C4756	△403 374 0001	ELECT 33U M 35V
C4848	403 184 9805	MT-POLYEST 0.22U J 50V
C4849	403 184 9805	MT-POLYEST 0.22U J 50V
C4854	403 184 9300	MT-POLYEST 0.047U J 50V
C4867	△403 374 0001	ELECT 33U M 35V
C4868	403 185 0108	MT-POLYEST 0.47U J 50V
C4869	403 185 0108	MT-POLYEST 0.47U J 50V
C4870	△403 374 0001	ELECT 33U M 35V
C8211	△403 373 7902	ELECT 150U M 6.3V
C8535	△403 373 7902	ELECT 150U M 6.3V
CN100	645 057 2951	SOCKET,FPC 24P
or	645 037 6207	SOCKET,FFC 24P
CN160	614 310 2465	PLUG,5P
or	645 005 9292	PLUG,5P
CN162	645 057 2814	SOCKET,FPC 6P
or	645 057 4269	SOCKET,FPC 6P
CN410	645 006 1998	PLUG,5P
CN411	645 004 2904	PLUG,4P

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
CN412	614 310 2502	PLUG,9P	IC800	409 546 2002	IC ZR36748
or	645 005 8141	PLUG,9P	IC801	410 448 8405	IC S524A40X21-SCT0
CN420	614 310 2434	PLUG,2P	or	410 448 8504	IC S524A40X21-SCB0
or	645 005 7366	PLUG,2P	or	410 429 7908	IC AT24C02N-10SI-2.7
CN470	645 057 4399	TERMINAL,SPEAKER,6P,SP-6P	IC802	409 505 0803	IC PST3627U
CN490	645 037 3831	JACK,RCA,VIDEO	IC806	410 430 9403	IC 74VHCT08AMTCX
CN491	645 044 9086	SOCKET,DIN 4P,S-VIDEO	IC818	410 469 7906	IC ASSY (IC LE28DW8163T-70T-MPB, SST39VF800-70-4C-EK)
CN492	645 057 4382	JACK,RCA-2,RCA-2P	IC822	410 453 9602	IC LC3816161ET-70-MPB
CN495	645 059 1594	SOCKET,FPC 17P	or	409 482 0209	IC K4S161622D-TC80
CN496	614 310 2571	PLUG,16P	IC850	△409 534 5800	IC PQ2L2182MS
or	645 016 9809	PLUG,16P	IC870	409 540 1605	IC LC708746V
CN497	645 033 7826	PLUG,11P	L1000	645 034 7887	INDUCTOR,1000 OHM
CN499	614 221 8273	TERMINAL	or	645 020 1813	INDUCTOR,1000 OHM
D1700	407 149 0807	DIODE 1SS355	or	645 045 7869	IMPEDANCE,1000 OHM P
D4100	△407 196 5800	DIODE 1N5402BD82	L1002	645 034 7887	INDUCTOR,1000 OHM
D4101	△407 196 5800	DIODE 1N5402BD82	or	645 020 1813	INDUCTOR,1000 OHM
D4102	△407 196 5800	DIODE 1N5402BD82	or	645 045 7869	IMPEDANCE,1000 OHM P
D4103	△407 196 5800	DIODE 1N5402BD82	L1302	645 034 7887	INDUCTOR,1000 OHM
D4104	△407 196 5800	DIODE 1N5402BD82	or	645 020 1813	INDUCTOR,1000 OHM
D4105	△407 196 5800	DIODE 1N5402BD82	or	645 045 7869	IMPEDANCE,1000 OHM P
D4106	△407 097 8009	DIODE MPG06G	L4100	△645 053 8544	INDUCTOR,210U
D4107	△407 097 8009	DIODE MPG06G	L4101	△645 045 8613	INDUCTOR,10U
D4108	△407 097 8009	DIODE MPG06G	or	△645 048 4469	INDUCTOR,22U
D4109	△407 097 8009	DIODE MPG06G	L4102	△645 045 8613	INDUCTOR,10U
D4110	△407 097 8009	DIODE MPG06G	or	△645 048 4469	INDUCTOR,22U
D4111	△407 097 8009	DIODE MPG06G	L4103	△645 053 8544	INDUCTOR,210U
D4112	407 099 5402	ZENER DIODE MTZJ6.2B	L4104	△645 045 8613	INDUCTOR,10U
D4113	407 099 9103	ZENER DIODE MTZJ27B	or	△645 048 4469	INDUCTOR,22U
D4114	△408 044 6307	DIODE SB140L 19C2-004	L4300	645 001 4550	INDUCTOR,10U K
D4115	△408 044 6307	DIODE SB140L 19C2-004	L4650	645 057 4405	INDUCTOR,0.7U
D4198	407 099 6409	ZENER DIODE MTZJ11B	or	645 053 7493	INDUCTOR,0.7U
D4199	407 099 4603	ZENER DIODE MTZJ3.9B	L4651	645 057 4405	INDUCTOR,0.7U
D4201	407 012 4406	DIODE 1SS133	or	645 053 7493	INDUCTOR,0.7U
D4300	407 012 4406	DIODE 1SS133	L4750	645 057 4405	INDUCTOR,0.7U
D4301	407 012 4406	DIODE 1SS133	or	645 053 7493	INDUCTOR,0.7U
D4302	407 012 4406	DIODE 1SS133	L4751	645 057 4405	INDUCTOR,0.7U
D4303	407 012 4406	DIODE 1SS133	or	645 053 7493	INDUCTOR,0.7U
D4580	407 099 5303	ZENER DIODE MTZJ5.6B	L4850	645 057 4405	INDUCTOR,0.7U
D4581	407 063 9207	ZENER DIODE MTZJ7.5B	or	645 053 7493	INDUCTOR,0.7U
D4582	407 063 9207	ZENER DIODE MTZJ7.5B	L851	645 057 7673	INDUCTOR,AIR 0.7U
D4800	407 012 4406	DIODE 1SS133	or	645 045 6206	INDUCTOR,AIR 0.7U
D4801	407 012 4406	DIODE 1SS133	L4960	645 058 3315	INDUCTOR,1U M
D4804	407 012 4406	DIODE 1SS133	L4961	645 040 6430	INDUCTOR,2.2U M
D4805	407 012 4406	DIODE 1SS133	L4962	645 040 6430	INDUCTOR,2.2U M
D4950	407 153 7502	ZENER DIODE GZS3.0B	L8060	645 034 7887	INDUCTOR,1000 OHM
IC100	409 518 1507	IC LA9703WL-MPB	or	645 020 1813	INDUCTOR,1000 OHM
IC130	409 531 6107	IC LC78663NRW	L8202	645 034 7887	INDUCTOR,1000 OHM
or	409 514 5004	IC LC78663NRW	or	645 020 1813	INDUCTOR,1000 OHM
IC131	410 433 0308	IC M11L416256SA-35T	L8780	645 034 7887	INDUCTOR,1000 OHM
or	410 431 3509	IC IS41LV16256-35T	or	645 020 1813	INDUCTOR,1000 OHM
IC160	409 532 0005	IC LA6560-A	L8781	645 034 7887	INDUCTOR,1000 OHM
IC161	409 168 9106	IC BA10358F	or	645 020 1813	INDUCTOR,1000 OHM
or	409 528 3805	IC NJM12904M	LUG01	645 020 1813	INDUCTOR,1000 OHM
IC410	△409 519 7201	IC PQ1CG21H2RZ,REG	LUG02	645 023 8987	FIXER
IC411	△409 519 7201	IC PQ1CG21H2RZ,REG	LUG03	645 023 8987	FIXER
IC412	△409 521 9804	IC KA7805R	LUG04	645 023 8987	FIXER
IC430	410 472 4206	IC M38507M8-152FP,MICON	LUG05	645 023 8987	FIXER
IC450	409 426 1903	IC KIA4558F	LUG06	645 006 4425	FIXER
or	409 039 7804	IC NJM4558M	LUG07	645 023 8987	FIXER
IC451	409 543 1107	IC BD3811K1,6CH-VOL	PR410	△645 042 2737	PROTECTOR,7A 125V
IC452	409 543 1008	IC QS7785CF	PR411	△645 042 2737	PROTECTOR,7A 125V
IC453	409 543 7208	IC KTC801U-Y	PR412	△645 042 2515	PROTECTOR,0.2A 125V
IC454	409 543 6409	IC KRX101U	PR418	△645 042 2652	PROTECTOR,10A 125V
IC455	409 543 7208	IC KTC801U-Y	PR419	△645 042 2652	PROTECTOR,10A 125V
IC460	409 426 1903	IC KIA4558F	PR420	△645 027 4169	PROTECTOR,0.125A 125V
or	409 039 7804	IC NJM4558M	PR450	△645 042 2515	PROTECTOR,0.2A 125V
IC461	409 357 2901	IC NJM4556AL	PR451	△645 042 2515	PROTECTOR,0.2A 125V
IC462	△409 472 5306	IC LM1876TF	Q1002	405 146 2107	TR KTC3875-Y
IC471	409 542 9609	IC NJM2058V	or	405 146 2206	TR KTC3875-GR
IC472	△409 472 5306	IC LM1876TF	or	405 014 4509	TR 2SC2412K-R
IC482	△409 521 9200	IC LM4700TF	or	405 011 1006	TR 2SC1623-L6
IC483	△409 521 9101	IC LM3876TF	Q1003	405 146 2107	TR KTC3875-Y
IC484	409 543 6409	IC KRX101U			
IC491	409 542 9609	IC NJM2058V			

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
or	405 146 2206	TR KTC3875-GR	Q8881	405 159 0503	TR KRC107S
or	405 014 4509	TR 2SC2412K-R	or	405 141 5608	TR DTC114YKA
or	405 011 1006	TR 2SC1623-L6	Q8882	405 159 0503	TR KRC107S
Q1004	405 146 2107	TR KTC3875-Y	or	405 141 5608	TR DTC114YKA
or	405 146 2206	TR KTC3875-GR	R4107	△401 219 1008	MT-GLAZE 1.6K FA 1/16W
or	405 014 4509	TR 2SC2412K-R	R4108	△401 230 2503	MT-GLAZE 1K FA 1/16W
or	405 011 1006	TR 2SC1623-L6	R4111	△401 218 4604	MT-GLAZE 5.6K FA 1/16W
Q1005	405 158 5905	TR KTA1505-Y	R4112	△401 230 2503	MT-GLAZE 1K FA 1/16W
or	405 035 5509	TR 2SA1036K-R	R4115	△402 085 2205	RESISTOR 6.8 J- 2W
Q1006	405 158 5905	TR KTA1505-Y	R4116	△402 081 0106	FUSIBLE RES 2.2 JA 1/4W
or	405 035 5509	TR 2SA1036K-R	R4650	△402 082 1300	RESISTOR 4.7 J- 1W
Q1016	405 146 2107	TR KTC3875-Y	R4651	△402 082 1300	RESISTOR 4.7 J- 1W
or	405 146 2206	TR KTC3875-GR	R4658	△402 082 2802	RESISTOR 10 J- 1W
or	405 014 4509	TR 2SC2412K-R	R4659	△402 082 2802	RESISTOR 10 J- 1W
or	405 011 1006	TR 2SC1623-L6	R4750	△402 082 1300	RESISTOR 4.7 J- 1W
Q4100	△405 141 3604	TR KTA1273-Y	R4751	△402 082 1300	RESISTOR 4.7 J- 1W
Q4101	405 159 0503	TR KRC107S	R4758	△402 082 2802	RESISTOR 10 J- 1W
or	405 141 5608	TR DTC114YKA	R4759	△402 082 2802	RESISTOR 10 J- 1W
Q4102	405 159 0503	TR KRC107S	R4851	△402 082 1300	RESISTOR 4.7 J- 1W
or	405 141 5608	TR DTC114YKA	R4858	△402 082 2802	RESISTOR 10 J- 1W
Q4103	405 159 0503	TR KRC107S	R4859	△402 082 2802	RESISTOR 10 J- 1W
or	405 141 5608	TR DTC114YKA	R4867	△402 082 8606	RESISTOR 2.2 J- 1W
Q4206	405 159 0503	TR KRC107S	RN100	645 057 4252	R-NETWORK 8.2KX4 1/16W
or	405 141 5608	TR DTC114YKA	RN101	645 057 4290	R-NETWORK 47KX4 1/16W
Q4209	405 143 8706	TR KTC3199-GR	RN410	645 058 5043	R-NETWORK 4.7KX4 1/16W
or	405 017 9600	TR 2SC3330-T	RN801	645 057 4238	R-NETWORK 33X4 1/16W
or	405 017 9709	TR 2SC3330-U	SG491	645 055 3202	SURGE-ABSORBER
or	405 011 8500	TR 2SC1740S-R	SG492	645 055 3202	SURGE-ABSORBER
or	405 011 8609	TR 2SC1740S-S	SG493	645 055 3202	SURGE-ABSORBER
Q4302	405 146 2107	TR KTC3875-Y	SG871	645 055 3202	SURGE-ABSORBER
or	405 146 2206	TR KTC3875-GR	SG872	645 055 3202	SURGE-ABSORBER
or	405 014 4509	TR 2SC2412K-R	SH401	614 322 4877	SHIELD,SP,SOCKET
or	405 011 1006	TR 2SC1623-L6	X1500	645 017 0157	OSC,CERAMIC 16.93MHZ
Q4303	405 146 2107	TR KTC3875-Y	or	645 059 7060	OSC,CERAMIC 16.93MHZ
or	405 146 2206	TR KTC3875-GR	X4300	645 053 4393	OSC,CERAMIC 8.00MHZ
or	405 014 4509	TR 2SC2412K-R	X8230	645 053 4270	OSC,CRYSTAL 27.000MHZ
or	405 011 1006	TR 2SC1623-L6	or	645 045 8293	OSC,CRYSTAL 27.000MHZ
Q4580	405 146 2107	TR KTC3875-Y	TUNER P.W.BOARD ASSY		
or	405 146 2206	TR KTC3875-GR	REF.NO.	PART NO.	DESCRIPTION
or	405 014 4509	TR 2SC2412K-R	75	614 326 0196	ASSY,PWB,TUNER(Only initial)
or	405 011 1006	TR 2SC1623-L6	B2101	645 006 3602	INDUCTOR,1.1UH
Q4581	405 146 2107	TR KTC3875-Y	C2457	403 259 0508	NP-ELECT 1U M 50V
or	405 146 2206	TR KTC3875-GR	or	403 106 1603	NP-ELECT 1U Q 50V
or	405 014 4509	TR 2SC2412K-R	CN201	645 057 1909	TERMINAL,TUNER
or	405 011 1006	TR 2SC1623-L6	CN202	614 305 6317	CORD,1P CONNECTOR
Q4582	405 146 1704	TR KTA1504-Y	CN203	614 310 2298	PLUG,2P
or	405 146 9700	TR KTA1504-GR	or	645 004 2683	PLUG,2P
or	405 134 5905	TR 2SA1037AK-R	CN241	645 033 7833	SOCKET,11P
or	405 002 0308	TR 2SA1037K-R	D2151	407 012 4406	DIODE 1SS133
or	405 005 5508	TR 2SA812-M6	D2301	407 063 9108	ZENER DIODE MTZJ6.8B
Q4620	405 166 7007	TR KTD1304	D2451	407 012 4406	DIODE 1SS133
Q4621	405 166 7007	TR KTD1304	D2452	407 153 7502	ZENER DIODE GZS3.0B
Q4622	405 166 7007	TR KTD1304	D2453	407 012 4406	DIODE 1SS133
Q4623	405 166 7007	TR KTD1304	D2466	407 012 4406	DIODE 1SS133
Q4640	405 166 7007	TR KTD1304	D2467	407 012 4406	DIODE 1SS133
Q4641	405 166 7007	TR KTD1304	IC231	409 474 3201	IC LA1844ML
Q4740	405 166 7007	TR KTD1304	IC241	409 439 4502	IC LC72121M-D
Q4741	405 166 7007	TR KTD1304	IC251	409 447 3900	IC LC72722
Q4840	405 166 7007	TR KTD1304	L2151	645 023 0127	TUNER
Q4841	405 166 7007	TR KTD1304	L2451	645 001 4581	INDUCTOR,100U K
Q4844	405 159 0503	TR KRC107S	L2501	645 001 4581	INDUCTOR,100U K
or	405 141 5608	TR DTC114YKA	L2502	645 001 4581	INDUCTOR,100U K
Q4848	405 159 0503	TR KRC107S	L2503	△645 004 0511	INDUCTOR,270U J
or	405 141 5608	TR DTC114YKA	Q2140	405 143 8706	TR KTC3199-GR
Q4852	405 166 7007	TR KTD1304	or	405 017 9600	TR 2SC3330-T
Q4950	405 151 6107	TR KRA107S	or	405 017 9709	TR 2SC3330-U
or	405 141 5707	TR DTA114YKA	or	405 011 8500	TR 2SC1740S-R
Q4951	405 159 0503	TR KRC107S	or	405 011 8609	TR 2SC1740S-S
or	405 141 5608	TR DTC114YKA	Q2201	405 151 4202	TR KTC3193-O
Q8880	405 146 1704	TR KTA1504-Y	or	405 151 4103	TR KTC3193-Y
or	405 146 9700	TR KTA1504-GR	or	405 016 0806	TR 2SC2839-E
or	405 134 5905	TR 2SA1037AK-R	Q2310	405 143 8706	TR KTC3199-GR
or	405 002 0308	TR 2SA1037K-R	or	405 017 9600	TR 2SC3330-T
or	405 005 5508	TR 2SA812-M6			

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION
or	405 017 9709	TR 2SC3330-U
or	405 011 8500	TR 2SC1740S-R
or	405 011 8609	TR 2SC1740S-S
Q2451	405 151 5209	TR KRA107M
or	405 000 0904	TR DTA114YS
Q2502	405 151 5209	TR KRA107M
or	405 000 0904	TR DTA114YS
R2101	△ 401 012 4404	CARBON 100 JA 1/4W
R2301	△ 401 017 0708	CARBON 270 JA 1/4W
R2311	△ 401 017 0708	CARBON 270 JA 1/4W
U2101	645 033 5327	TUNER,FM
X2451	645 023 4965	OSC,CRYSTAL 7.2MHZ
X2501	645 035 8326	OSC,CRYSTAL 4.332MHZ
XF221	645 010 0079	CERAMIC FILTER 10.70MHZ
or	614 240 2917	FILTER,CERAM
or	614 254 3214	FILTER
XF222	645 010 0079	CERAMIC FILTER 10.70MHZ
or	614 240 2917	FILTER,CERAM
or	614 254 3214	FILTER
XF231	614 246 0849	FILTER
XF233	645 039 9923	TRANS,IF 10.7MHZ

POWER SUPPLY P.W.BOARD ASSY

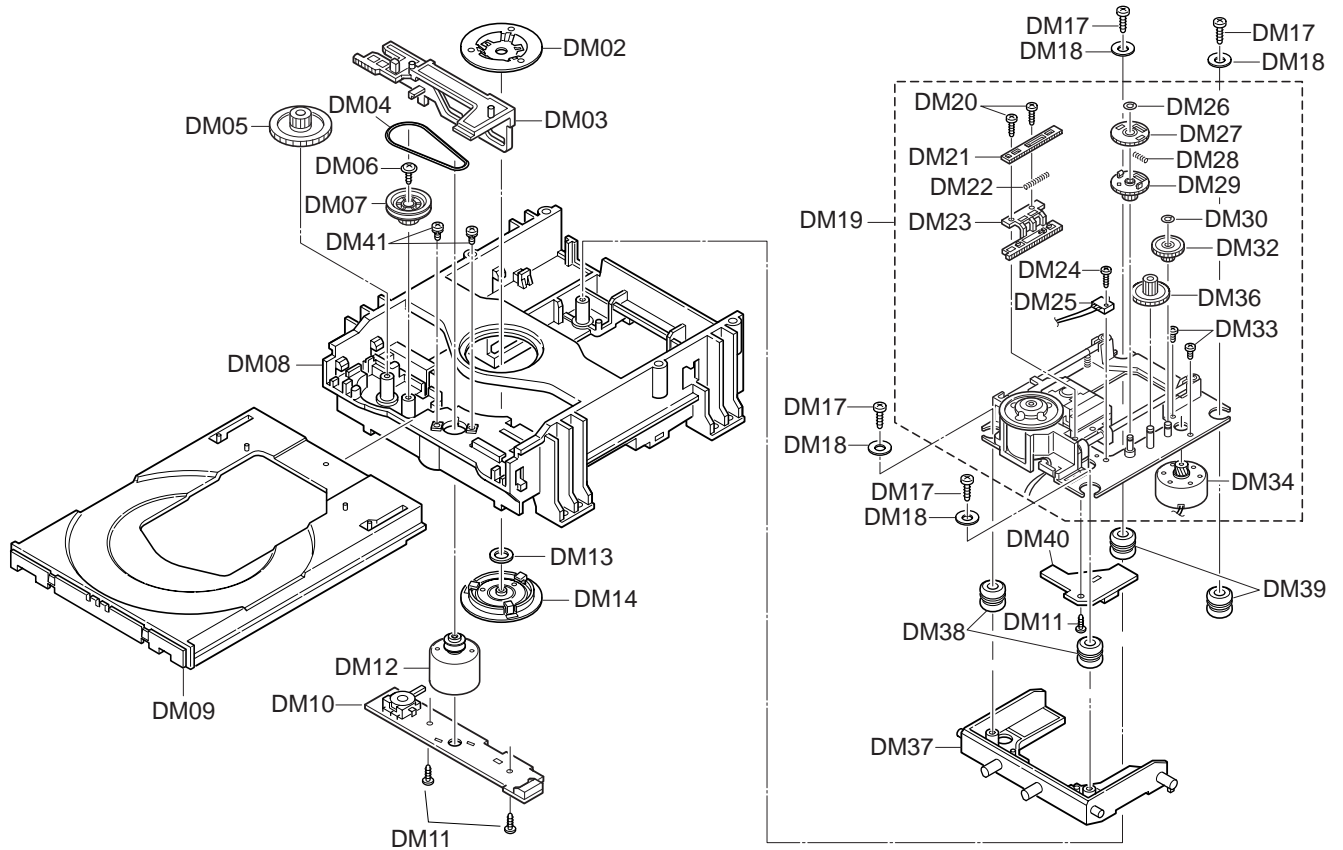
REF.NO.	PART NO.	DESCRIPTION
76	614 326 0202	ASSY,PWB,DG(Only initial)
C4000	△ 403 349 3303	CERAMIC 0.01U M 250V
or	△ 403 366 7803	CERAMIC 0.01U M 250V
C4049	403 215 2201	CERAMIC 0.01U K 50V
CN401	614 310 2502	PLUG,9P
or	645 005 8141	PLUG,9P
CN402	645 005 9315	PLUG,2P
D4000	407 012 4406	DIODE 1SS133
D4001	△ 407 097 8009	DIODE MPG06G
D4002	△ 407 097 8009	DIODE MPG06G
D4003	△ 407 097 8009	DIODE MPG06G
D4004	△ 407 097 8009	DIODE MPG06G
D4005	407 099 5204	ZENER DIODE MTZJ5.1B
D4006	△ 407 097 8009	DIODE MPG06G
D4007	△ 407 097 8009	DIODE MPG06G
D4008	407 099 6102	ZENER DIODE MTZJ10B
D4009	407 012 4406	DIODE 1SS133
D4010	407 012 4406	DIODE 1SS133
D4012	407 099 6805	ZENER DIODE MTZJ13B
D4014	407 012 4406	DIODE 1SS133
D4015	407 012 4406	DIODE 1SS133
FPC41	△ 645 031 7903	HOLDER,FUSE
or	△ 645 006 4760	HOLDER,FUSE
FPC42	△ 645 031 7903	HOLDER,FUSE
or	△ 645 006 4760	HOLDER,FUSE
IC401	△ 409 463 6701	IC KIA7805API
IC402	△ 409 521 9705	IC KA78R12STU
L4000	△ 645 038 7364	INDUCTOR,70U
or	△ 645 059 0467	INDUCTOR,13U
PR400	△ 645 042 2515	PROTECTOR,0.2A 125V
Q4000	405 143 8706	TR KTC3199-GR
or	405 017 9600	TR 2SC3330-T
or	405 017 9709	TR 2SC3330-U
or	405 011 8500	TR 2SC1740S-R
or	405 011 8609	TR 2SC1740S-S
Q4001	405 143 6504	TR KTA1267-GR
or	405 004 4601	TR 2SA608-F-SPA
or	405 004 5103	TR 2SA608-G-SPA
or	405 006 1806	TR 2SA933S-R
or	405 006 1905	TR 2SA933S-S
Q4002	405 143 6504	TR KTA1267-GR
or	405 004 4601	TR 2SA608-F-SPA
or	405 004 5103	TR 2SA608-G-SPA
or	405 006 1806	TR 2SA933S-R
or	405 006 1905	TR 2SA933S-S
Q4006	△ 405 138 6502	TR KTB1366Y
Q4007	405 143 6504	TR KTA1267-GR
or	405 004 4601	TR 2SA608-F-SPA
or	405 004 5103	TR 2SA608-G-SPA
or	405 006 1806	TR 2SA933S-R

REF.NO.	PART NO.	DESCRIPTION
or	405 006 1905	TR 2SA933S-S
R4008	△ 402 081 2605	FUSIBLE RES 4.7 J- 1/4W
R4013	△ 402 083 7707	RESISTOR 1K J- 1W
RY401	△ 645 059 0306	RELAY,PRIMARY
or	△ 645 030 5597	RELAY,PRIMARY
or	△ 645 035 6575	RELAY,PRIMARY
T4000	△ 645 057 9110	TRANS,POWER
WR401	614 017 8203	TERMINAL BOARD
WR402	614 017 8203	TERMINAL BOARD

SCART P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
77	614 325 6229	ASSY,PWB,SCART(Only initial)
CN301	645 059 1044	SOCKET,FPC 17P
CN302	645 041 8433	SOCKET,RGB 21P,SCART
CN303	614 239 1839	TERMINAL
L3001	645 001 4550	INDUCTOR,10U K
L3002	645 001 4550	INDUCTOR,10U K
L3003	645 006 3886	INDUCTOR,1U K
L3301	645 001 4550	INDUCTOR,10U K
L3401	645 001 5441	INDUCTOR,2.2U K
L3402	645 001 5441	INDUCTOR,2.2U K
L3403	645 001 5441	INDUCTOR,2.2U K
Q3301	405 143 6504	TR KTA1267-GR
or	405 004 4601	TR 2SA608-F-SPA
or	405 004 5103	TR 2SA608-G-SPA
or	405 006 1806	TR 2SA933S-R
or	405 006 1905	TR 2SA933S-S
S3401	645 043 7250	SWITCH,SLIDE 2P-2TX4
SG301	645 055 3202	SURGE-ABSORBER
SG302	645 055 3202	SURGE-ABSORBER
SG303	645 055 3202	SURGE-ABSORBER
SG304	645 055 3202	SURGE-ABSORBER
SG331	645 055 3202	SURGE-ABSORBER
SH301	614 314 0733	SHIELD,SHIELD

EXPLODED VIEW (DVD MECHANISM)



PARTS LIST

DVD MECHANISM CHASSIS

REF.NO.	PART NO.	DESCRIPTION
	614 325 4393	ASSY,MECHA,780, MECHANISM ASSY
DM02	614 325 0074	DISC,CHUCK DISC
DM03	614 320 2356	SLIDE,BASE UP/DOWN
DM04	614 323 3923	BELT,SQUARE,LOADING
DM05	614 320 2271	GEAR,LOADING GEAR
or	614 324 5230	GEAR,LOADING GEAR
DM06	412 061 7803	SPECIAL SCREW,HOLDER RAIL FIX
DM07	614 320 2349	PULLEY,LOADING RETARD PULLY
DM08	614 325 0067	CHASSIS,LOADING CHASSIS
DM09	614 320 2363	TRAY,TRAY
DM11	411 022 7807	SCR S-TPG PAN 2X6, PWB MECHA IF FIX
DM12	645 032 4352	ASSY,MOTOR LOADING
DM13	645 051 4920	MAGNET(CHUCK),MAGNET CHUCK
or	645 054 0448	MAGNET(CHUCK),MAGNET CHUCK
DM14	614 325 0081	HOLDER,CHUCK HOLDER
DM17	411 021 1806	SCR S-TPG BIN 2.6X10,BASE FIX
DM18	411 092 0906	WASHER Z 2.6X10X0.5,BASE FIX
DM19	614 325 7936	ASSY,MECHA,700 BASE 6P, BASE MECHA
DM20	411 184 0302	SCR S-TPG PAN PCS 1.7X4.5, RACK FIX
DM21	614 310 2083	GEAR,RACK,MOVE PICKUP(FREE)
DM22	614 310 6159	SPRING,COMP, FOR BACK RUSH(RACK)
DM23	614 310 2076	GEAR,RACK,MOVE PICKUP(FIX)
DM24	411 018 4704	SCR PAN PCS 1.7X5,LIMIT SW FIX
DM25	645 040 9899	SWITCH,MICRO 1P-2T,LIMIT SW
DM26	412 057 8304	SPECIAL WASHER,FOR GEAR 4 FIX
DM27	614 310 2069	GEAR,GEAR-5

REF.NO.	PART NO.	DESCRIPTION
DM28	614 310 6142	SPRING,COMP,FOR BACK RUSH
DM29	614 310 2052	GEAR.,GEAR-4
DM30	412 057 8304	SPECIAL WASHER,FOR GEAR 2 FIX
DM32	614 310 2038	GEAR.,GEAR-2
DM33	411 106 7709	SCR PAN PCS 1.7X2.5, SLED MOTOR FIX
DM34	645 051 5194	ASSY,MOTOR,SLED MOTOR
DM36	614 310 2045	GEAR.,GEAR-3
DM37	614 325 0098	MOUNTING, BASE MECHA MOUNTING
DM38	614 325 0104	SPACER,MECHA, BASE MECHA FLOATING
DM39	614 323 6498	SPACER,MECHA, BASE MECHA FLOATING
DM41	411 044 7502	SCR PAN+SW 2X5, LOADING MOTOR FIX

MECHA SW P.W.BOARD ASSY

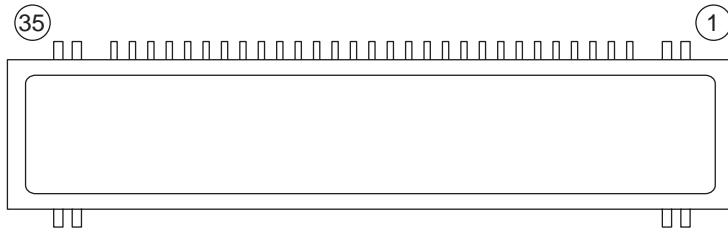
REF.NO.	PART NO.	DESCRIPTION
DM10	614 325 0012	ASSY,PWB,MECHA SW(Only Initial)
CN001	614 310 2618	PLUG,5P, MOTOR&SW PWB SOCKET
or	645 006 0922	PLUG,5P, MOTOR&SW PWB SOCKET

MECHA IF P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
DM40	614 325 7554	ASSY,PWB MECHA IF(Only Initial)
CN002	645 057 2821	SOCKET,FPC 6P, MECHA IF FFC SOCKET
or	645 055 9211	SOCKET,FPC 6P, MECHA IF FFC SOCKET

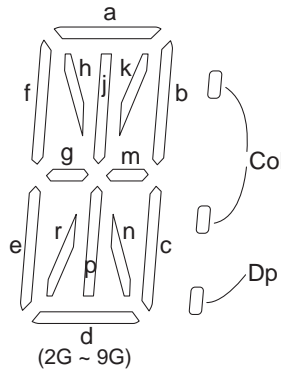
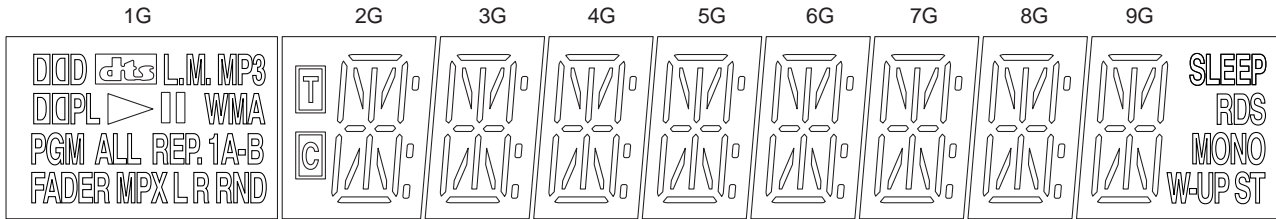
IC BLOCK DIAGRAM & DESCRIPTION

FL601 Fluorecent Tube



Note FN : Filament pin
nG : Grid pin
Pn : Anode pin
NP : No Pin
NX : No Extended pin

PIN NO.	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	F2	F2	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	NX	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	F1	F1

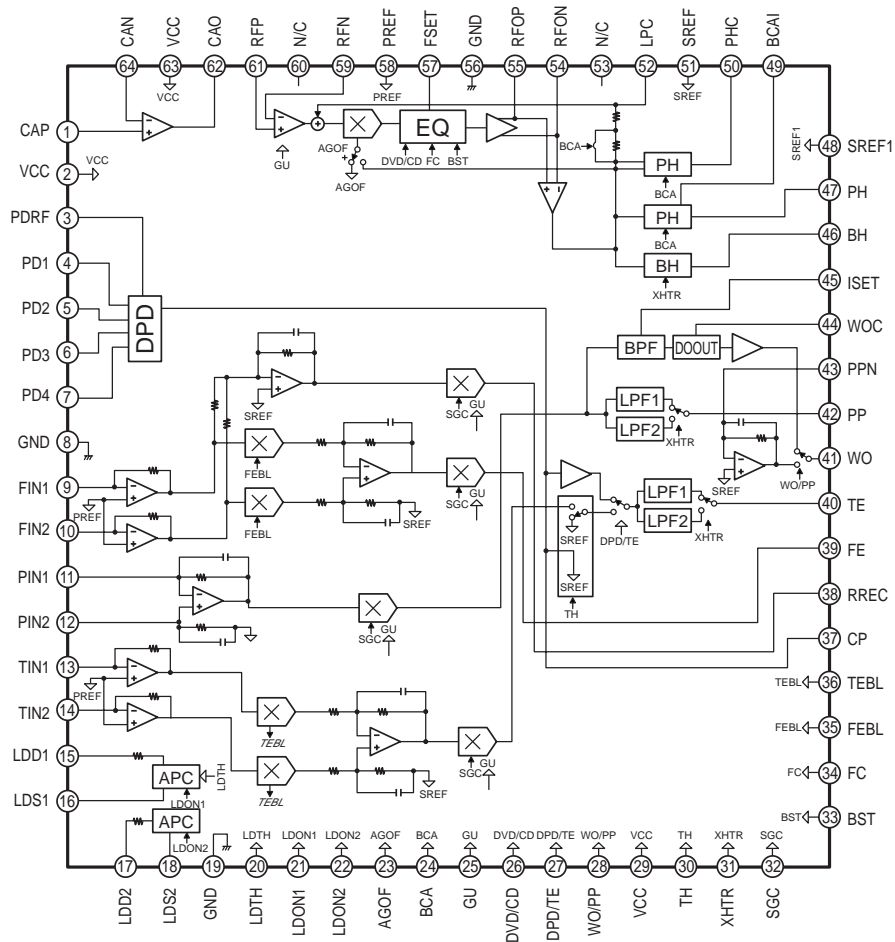


	1G	2G	3G	4G	5G	6G	7G	8G	9G
P1	DDD	a	a	a	a	a	a	a	a
P2	dk3	b	b	b	b	b	b	b	b
P3	L.M.	f	f	f	f	f	f	f	f
P4	MP3	h	h	h	h	h	h	h	h
P5	DIPL	j	j	j	j	j	j	j	j
P6	▷	k	k	k	k	k	k	k	k
P7		Col	Col	Col	Col	Col	Col	Col	SLEEP
P8	WMA	g	g	g	g	g	g	g	g
P9	PGM	m	m	m	m	m	m	m	m
P10	ALL	c	c	c	c	c	c	c	c
P11	REP.	e	e	e	e	e	e	e	e
P12	1	r	r	r	r	r	r	r	r
P13	A-	p	p	p	p	p	p	p	p
P14	B	n	n	n	n	n	n	n	n
P15	FADER	d	d	d	d	d	d	d	d
P16	MPX	Dp	Dp	Dp	Dp	Dp	Dp	Dp	RDS
P17	L	T	-	-	-	-	-	-	MONO
P18	R	C	-	-	-	-	-	-	WUP
P19	RND	-	-	-	-	-	-	-	ST

IC BLOCK DIAGRAM & DESCRIPTION

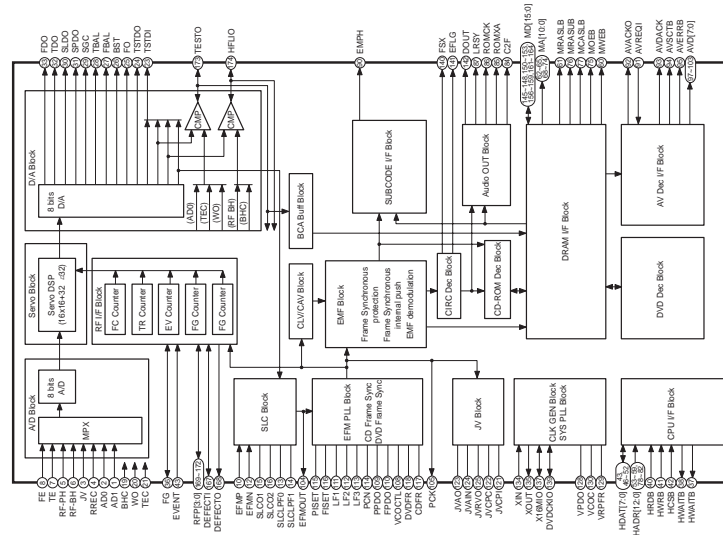
IC100 LA9703WL-MPB (DVD Player Fronted Processor)

Terminal No.	Symbole	Functions	Terminal No.	Symbole	Functions
1	CAP	Customer OP amp. + input	33	BST	EQL boost adjusting
2	VCC	Power supply (For DPD)	34	FC	EQL I/O control
3	PDRF	Pickup signal input	35	FEBL	FE balance adjusting
4	PD1	Pickup signal input	36	TEBL	TE balance adjusting
5	PD2	Pickup signal input	37	CP	Charge pump gain setting resistor, condenser connect
6	PD3	Pickup signal input	38	RREC	Pefflection output
7	PD4	Pickup signal input	39	FE	Focus error output
8	GND	Ground (For DPD)	40	TE	Tracking error output
9	FIN1	Pickup signal input	41	WO	WO/push-pull output
10	FIN2	Pickup signal input	42	PP	Push/pull output
11	PIN1	Pickup signal input	43	PPN	Push/pull gain setting resistor connect
12	PIN2	Pickup signal input	44	WOC	DC cut capacity connect
13	TIN1	Pickup signal input	45	ISET	BPF center frequency setting resistor connect
14	TIN2	Pickup signal input	46	BH	RF bottom detection output
15	LDD1	APC 1 output	47	PH	RF peak detection output
16	LDS1	APC 1 monitor input	48	SREF1	SREF setting
17	LDD2	APC 2 output	49	BCAI	Peak hold detection setting resistor connect (When SCA)
18	LDS2	APC 2 monitor input	50	PHC	RF-AGC PH detection condenser connect
19	GND	Ground (Servo system)	51	SREF	Servo signal voltage reference output
20	LDTH	APC 1 threshold change	52	LPC	RE DC servo condenser connect
21	LDON1	APC 1 laser ON	53	N/C	N/C
22	LDON2	APC 2 laser ON	54	RFON	RF - output
23	AGOF	RFAGC OFF	55	RFOP	RF + output
24	BCA	PH discharge coefficient change	56	GND	Ground (RF system)
25	GU	RF, servo signal gain up	57	FSET	EQL frequency setting resistor connect
26	DVD/CD	RF, EQL band change	58	PREF	Voltage reference output (For pick)
27	DPD/TE	TE output change	59	RFN	RF signal - input
28	WO/PP	WO output change	60	N/C	N/C
29	VCC	Power supply (Servo system)	61	RFP	RF signal + input
30	TH	Tracking hold (H:hold)	62	CAO	Customer OP amp. output
31	XHTR	Tracking bottom band change (High band)	63	VCC	Power supply (RF system)
32	SGC	Servo gain control (RREC, FE, PP, TE)	64	CAN	Customer OP amp. - input



IC BLOCK DIAGRAM & DESCRIPTION

IC130 LC78663NRW (DVD/CD Signal Processing)



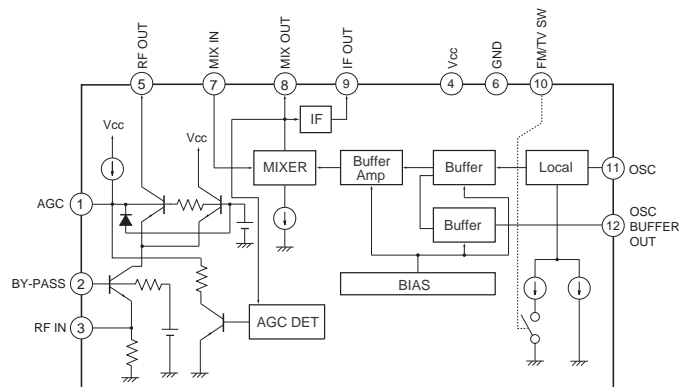
Block	NO.	Pin Name	I/O	Supplementation	Block	NO.	Pin Name	I/O	Supplementation	
A/D	1	AD1	I	Servo A/D AD1	Microcomputer I/F	45	DVSS		Digital GND	
	2	AD0	I	Servo A/D AD0		46	HDAT1	I/O	Data bus 1	
	3	JV	I	Servo A/D JV		47	HDAT2	I/O	Data bus 2	
	4	RREC	I	Servo A/D RREC		48	HADT3	I/O	Data bus 3	
	5	RF-PH	I	Servo A/D RF-PH		49	HADT4	I/O	Data bus 4	
	6	RF-RH	I	Servo A/D RF-BH		50	HDAT5	I/O	Data bus 5	
	7	TE	I	Servo A/D TE		51	HDAT6	I/O	Data bus 6	
	8	FE	I	Servo A/D FE		52	HADT7	I/O	Data bus 7	
TEST pin	9	TEST0	I	Test input 0 (Input "L" level)		53	HADR0	I	Address bus 0	
SLC	10	EFMINP	I	EFM/EFM+ Input		54	HADR1	I	Address bus 1	
TEST pin	11	TEST1	I	Test input 1 (Input "L" Input)		55	HADR2	I	Address bus 2	
	12	EFMINN	I	EFM- Input		56	HADR3	I	Address bus 3	
	13	SLCLPF0	-	SLC	57	HADR4	I	Address bus 4		
	14	SLCLPF1	-	SLC	58	HADR5	I	Address bus 5		
	15	SLCO1	-	SLC	59	HADR6	I	Address bus 6		
	16	SLCO2	-	SLC	DRAM I/F	60	MWEB	O	WE Output	
Power supply	17	AVDDI	-	A/D D/A SLC Power source [Analogue 3.3V]		61	MRASIB	O	RAS Output I	
	18	AVSS	-	Analogue GND		62	MA0	O	DRAM Address bus 0	
CMP	19	BHC	I	Comparator input (RE-BH)		63	MA1	O	DRAM Address bus 1	
	20	WO	I	Comparator input		64	MA2	O	DRAM Address bus 2	
	21	TEC	I	Comparator input (TE)	65	MA3	O	DRAM Address bus 3		
D/A	22	VREF	O	Servo D/A Voltage reference	NC	66	NC		NC pin which set, "H" or "L" (662; DRAM Power supply [Digital 3.3V])	
	23	TSTD1	O	Servo D/A		67	NC		NC pin which set, "H" or "L" (662; Digital GND)	
	24	TSTD0	O	Servo D/A TSTD0		DRAM I/F	68	MA4	O	DRAM Address bus 4
	25	FO	O	Servo D/A FO			69	MA5	O	DRAM Address bus 5
	26	BST	O	Servo D/A BST			70	MA6	O	DRAM Address bus 6
	27	TBAL	O	Servo D/A TBAL			71	MA7	O	DRAM Address bus 7
	28	FBAL	O	Servo D/A FBAL			72	MA8	O	DRAM Address bus 8
	29	SGC	O	Servo D/A SGC			73	MA9	O	DRAM Address bus 9
	30	SLDO	O	Servo D/A SLDO			74	MA10	O	DRAM Address bus 10
	31	SPDO	O	Servo D/A SPDO			75	MOEB	O	OE Output
	32	TDO	O	Servo D/A TDO			76	MCASUB	O	CAS Output (Upper Byte)
	33	FDO	O	Servo D/A FDO			77	MCASLB	O	CAS Output (Lower Byte)
	Power supply	34	DVDDO	-	Internal logic power source [Digital 2.5V]		Microcomputer I/F	78	HADR7	I
35		DVSS	-	Digital GND	79			HADR8	I	Address bus 8
RF I/F	36	FG	I/O	FG Counter input General-purpose port in/output	80	HADR9		I	Address bus 9	
	37	HIRQB	O	Interrupt signal output	81	HADR10		I	Address bus 10	
	38	HWAITB	I	Wait signal output	82	HADR11		I	Address bus 11	
	39	HRESB	I	Servo reset input	83	HADR12		I	Address bus 12	
	40	HRDB	I	Reag reset input				Buffer memory access selector		
	41	HWRB	I	Write signal input	CD data	84	C2F	O	C2 flag output	Monitor pin 4
	42	HCSB	I	Chip select signal input		85	ROMXA	O	CD data output	Monitor pin 3
Power supply	43	HDATO	I/O	DTA BUS 0		86	ROMCK	O	CD data output shift clock output	Monitor pin 2
	44	DVDD1	-	I/O Power source [Digital 3.3V]		87	LRSY	O	CD data output L/R clock output	Monitor pin 1
						88	DVDD1	-	I/O power source	
					89	DVSS		Digital GND		
					90	EMPH	O	Deemphasis monitor pin	Monitor pin 0	

IC BLOCK DIAGRAM & DESCRIPTION

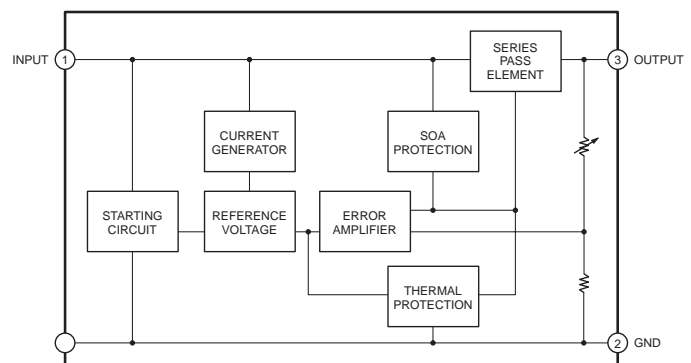
IC130 LC78663W-D(DVD/CD Signal Processing)

Block	NO.	Pin name	I/O	Supplementation	Block	NO.	Pin name	I/O	Supplementation	
AV data I/F	91	AVREQI	I	AV data requirement flag input	System	137	X16MIO	I/O	External 16MHz output	
	92	AVACKO	O	AV data read strobe output		CLK	138	TEST2	I	Test input 2 (Input; "L" level set)
	93	AVDACK	O	AV data read output	Monitor		139	DVCKIO	I/O	External DVD clock input
	94	AVSCTB	O	AV output selector synchronization outpun		140	FSX	O	CD1 frame synchronization signal	Monitor 6
	95	AVERRB	O	AV data reliable flag output	141	EFLG	O	Error correction C1,C2 correction conditions monitor oins	Monitor 5	
	96	AVD0	O	AV data bus 0		CD data	142	DOUT	O	Audio EIAJ data output
	97	AVD1	O	AV data bus 1	Power supply		143	DVDD1	-	I/O power supply [Digital 3.3V]
	98	AVD2	O	AV data bus 2		144	DVSS	-	Digital GND	
	99	AVD3	O	AV data bus 3	DRAM I/F	145	MD8	I/O	DRAM data bus 8	
	100	AVD4	O	AV data bus 4		146	MD9	I/O	DRAM data bus 9	
	101	AVD5	O	AV data bus 5	147	MD10	I/O	DRAM data bus 10		
	102	AVD6	O	AV data bus 6	148	MD11	I/O	DRAM data bus 11		
	103	AVD7	O	AV data bus 7	NC	149	NC		NC pin which set "H" or "L" (662;Digital GND)	
RF I/F	104	EFMOUT	O	EFM 2 value signal output		DRAM I/F	150	MD12	I/O	DRAM data bus 12
	105	PCK	O	EFM playback shift clock output	151		MD13	I/O	DRAM data bus 13	
Power supply	106	DVDD0	-	Internal logic power source [Digital 2.5V]	NC	152	MD14	I/O	DRAM data bus 14	
	107	DVSS	-	Digital GND		153	MD15	I/O	DRAM data bus 15	
EFM PLL	108	VCOCTL	-	VCO filter connect	NC	154	NC	-	NC pin which set "H" or "L" (662;Digital GND)	
	109	PPDO	-	Phase comparison filter connect		155	NC	-	NC pin which set "H" or "L" (662;DRAM power source [Digital 3.3V])	
	110	FPDO	-	Frequency comparison filter connect	DRAM I/F		156	MD0	I/O	DRAM data bus 0
	111	LF1	-	Filter connect 1		157	MD1	I/O	DRAM data bus 1	
	112	LF2	-	Filter connect 2	158	MD2	I/O	DRAM data bus 2		
	113	LF3	-	Filter connect 3	159	MD3	I/O	DRAM data bus 3		
	114	PCN	-	Voltage monitor pin(Phase comparison charge pump PCH control voltage)	NC	160	NC	-	NC pin which set "H" or "L" (662;DRAM power source [Digital 3.3V])	
	115	PISET	-	Current setting pin for the constant current phase comparison charge pump		DRAM I/F	161	MD4	I/O	DRAM data bus 4
	116	FISET	-	Current setting pin for the constant frequency comparison charge pump	162		MD5	I/O	DRAM data bus 5	
	117	CDFR	-	EFM playback VCO oscillator range setting pin [CD]	163	MD6	I/O	DRAM data bus 6		
118	DVDFR	-	EFM playback VCO oscillator range setting pin [DVD]	164	MD7	I/O	DRAM data bus 7			
Power supply	119	AVDD2	-	EFM PLL JV power supply [Analog 3.3V]	Power supply	165	DVDD1		I/O power supply [Digital 3.3V]	
	120	AVSS	-	Analog GND		166	DVSS		Digital GND	
JV	121	JVCP1	-	JV control	167	DEFECTI	I/O	Defect signal input	General-purpose port I/O 0	
	122	LVCP2	-	JV control		168	DEFECTO	O	Defect signal output	
	123	JVAO	O	EFM playback PLL clock jitter output	RF I/F		169	RFP0	I/O	RF general-ourpouse port I/O 0
	124	JVAIN	-	JV control		170	RFP1	I/O	RF general-ourpouse port I/O 1	
	125	JVRVO	-	JV control		171	RFP2	I/O	RF general-ourpouse port I/O 2	HBUSYB output
Power supply	126	AVDD3	-	SYSTEM PLL power supply [Analog 2.5V]	172	RFP3	I/O	RF general-ourpouse port I/O 3	HFBUSYB output EVENT counter input	
	127	AVSS	-	Analog GND		173	TESIO	I/O	Tracking margin signal I/O	
System	128	VPDO	-	SYSTEM PLL filter connect	174	HFLIO	I/O	Mirror detast signal I/O		
	129	VRPFR	-	SYSTEM PLL VCO oscillator renge setting		Power supply	175	DVDD0		Internal logic power supply [Digital 2.5V]
CLK	130	VCOC	-	SYSTEM PLL filter connect	176		DVSS		Digital GND	
	131	DVDD0	-	Internal logic power source [Digital 2.5V]						
Power supply	132	DVSS	-	Digital GND						
	133	DVDD2	-	Oscillation circuit power source [Digital 3.3V]						
System	134	XIN	I	Oscillation circuit input						
CLK	135	XOUT	O	Oscillation circuit output						
Power supply	136	DVSS	-	Digital GND						

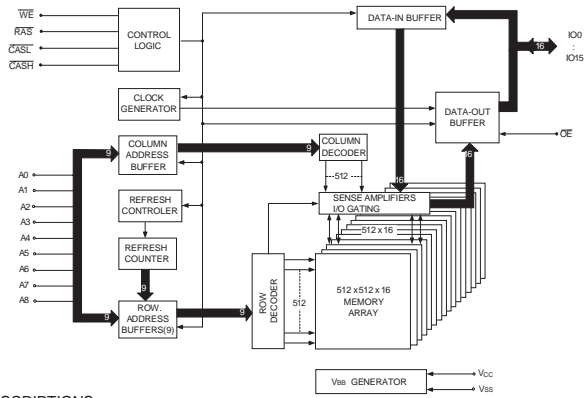
IC211 TA8176SN(Mixer)



IC401 KIA7805API(Regulator)



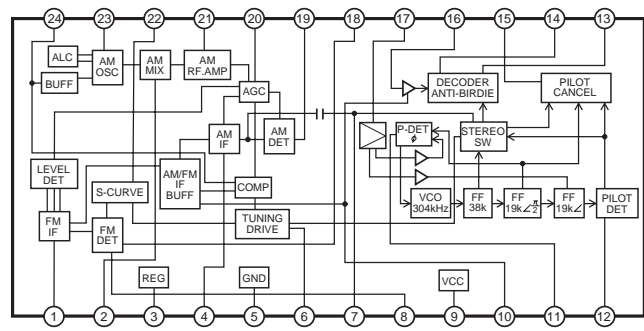
IC BLOCK DIAGRAM & DESCRIPTION IC131 M11L416256(256K x 16 DRAM)



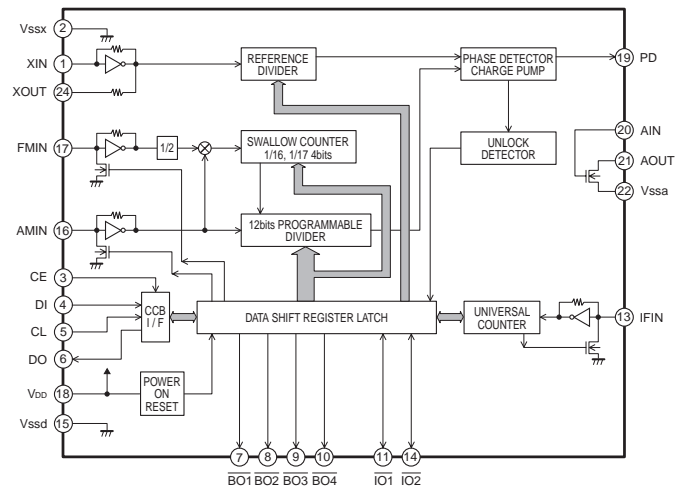
PIN DESCRIPTIONS

PIN NO.	PIN NAME	TYPE	DESCRIPTION
16-19,22-26	A0-A8	Input	Address Input Row Address : A0-A8 Column Address : A0-A8
14	RAS	Input	Row Address Strobe
28	CASH	Input	Column Address Strobe / Upper Byte Control
29	CASL	Input	Column Address Strobe / Lower Byte Control
13	WE	Input	Write Enable
27	OE	Input	Output Enable
2-5,7-10,31-34,36-39	I/O0 - I/O15	Input / Output	Data Input / Output
1,6,20	Vcc	Supply	Power, 3.3V
21,35,40	Vss	Ground	Ground
11,12,15,30	NC	-	No Connect

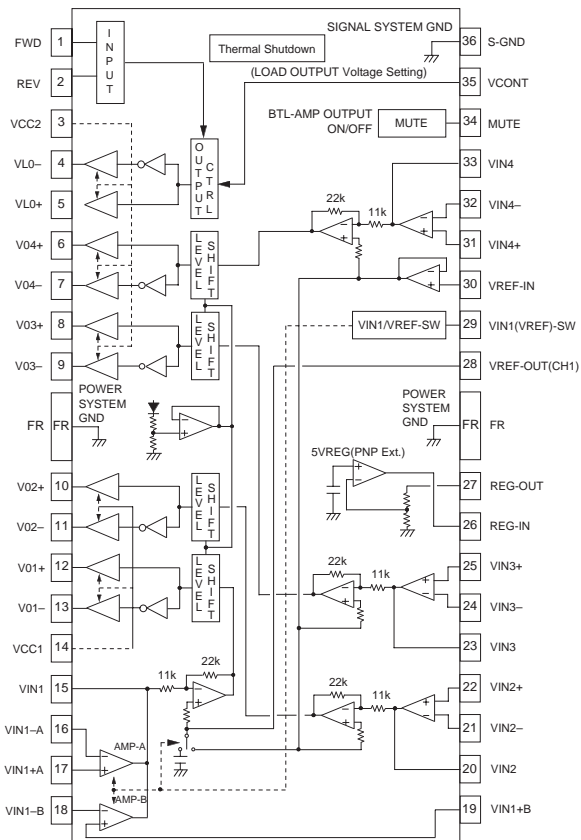
IC231 LA1844ML(AM/FM-IF/MPX)



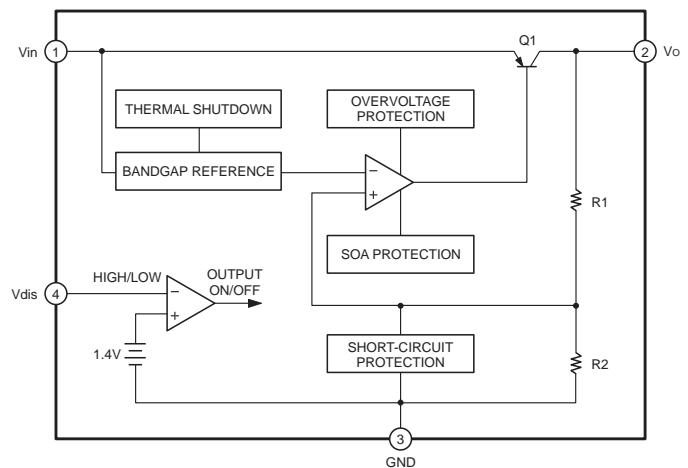
IC241 LC72121M-D(PLL)



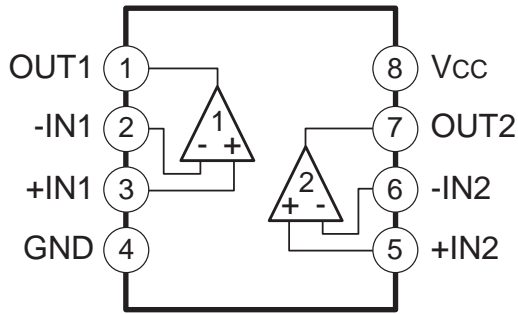
IC160 LA6560(Motor Driver)



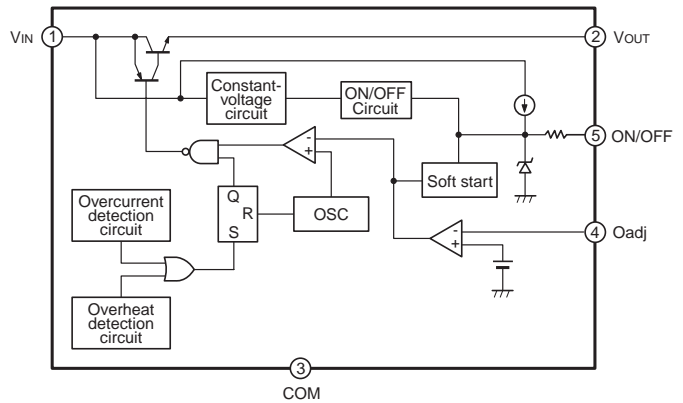
IC402 KA78R12STU(Low Dropout Voltage Regulator)



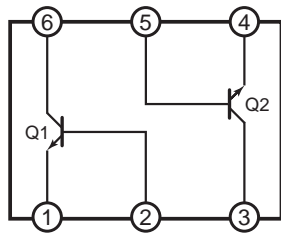
IC BLOCK DIAGRAM & DESCRIPTION
IC161 BA10358(Operational Amplifier)



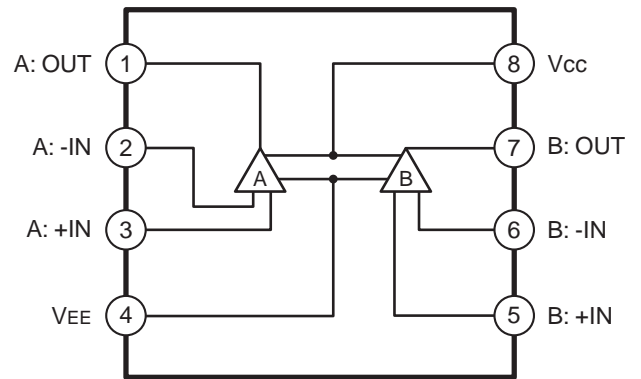
IC410,411 PQ1CG21H2RZ(Chopper Regulator)



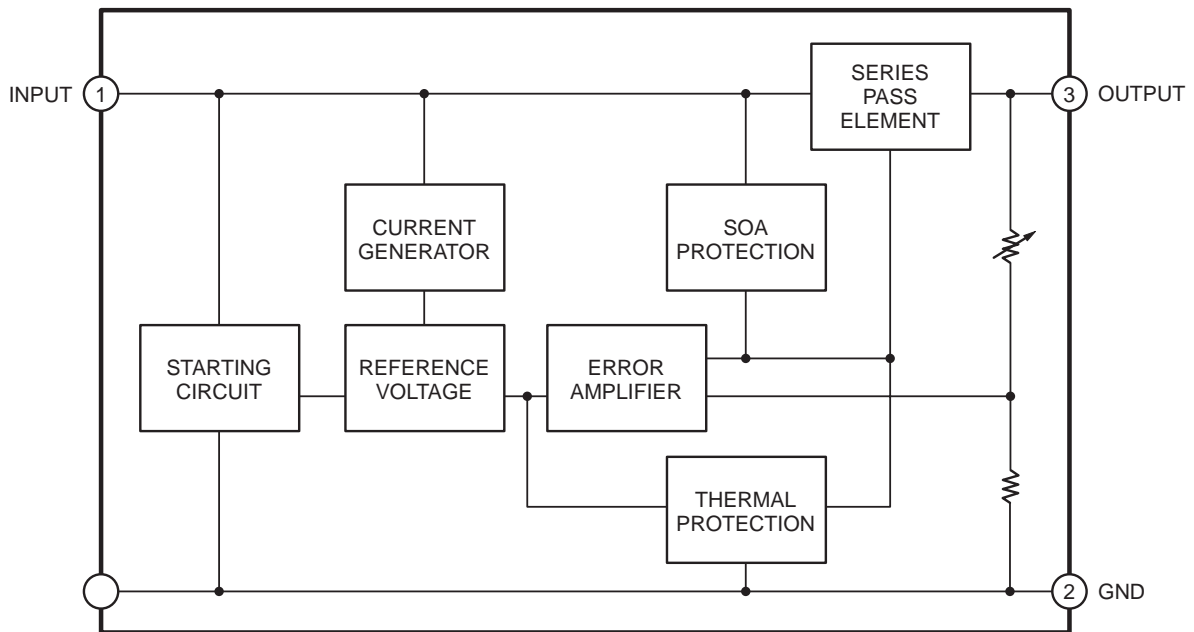
IC453,455 KTC801U-Y(Switching Transistor)



IC450,460 NJM4558(Operational Amplifier)

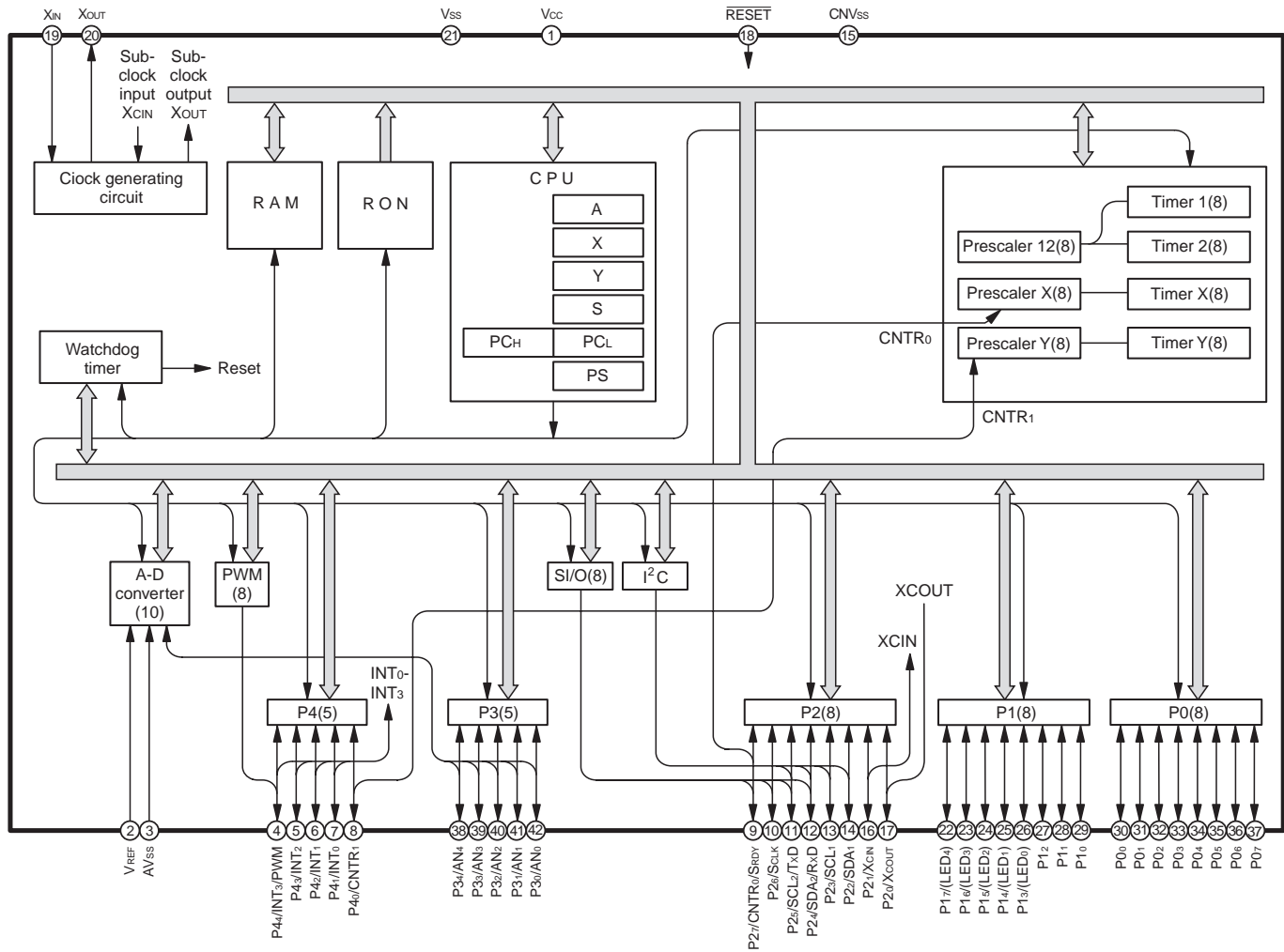


IC412 KA7805R(Voltage Regulator)

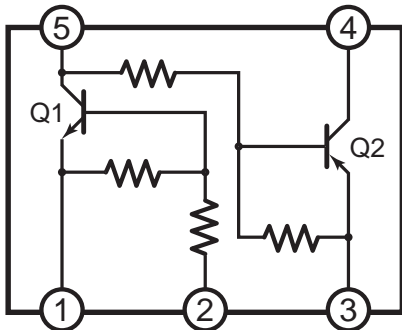


IC BLOCK DIAGRAM & DESCRIPTION

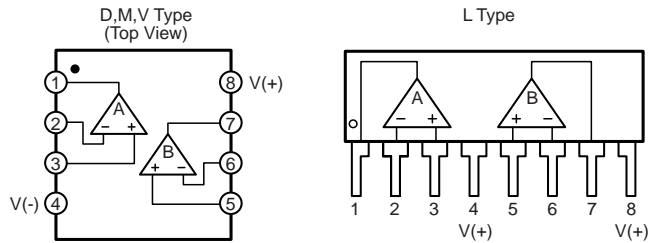
IC430 M38507M8(Micro Computer)



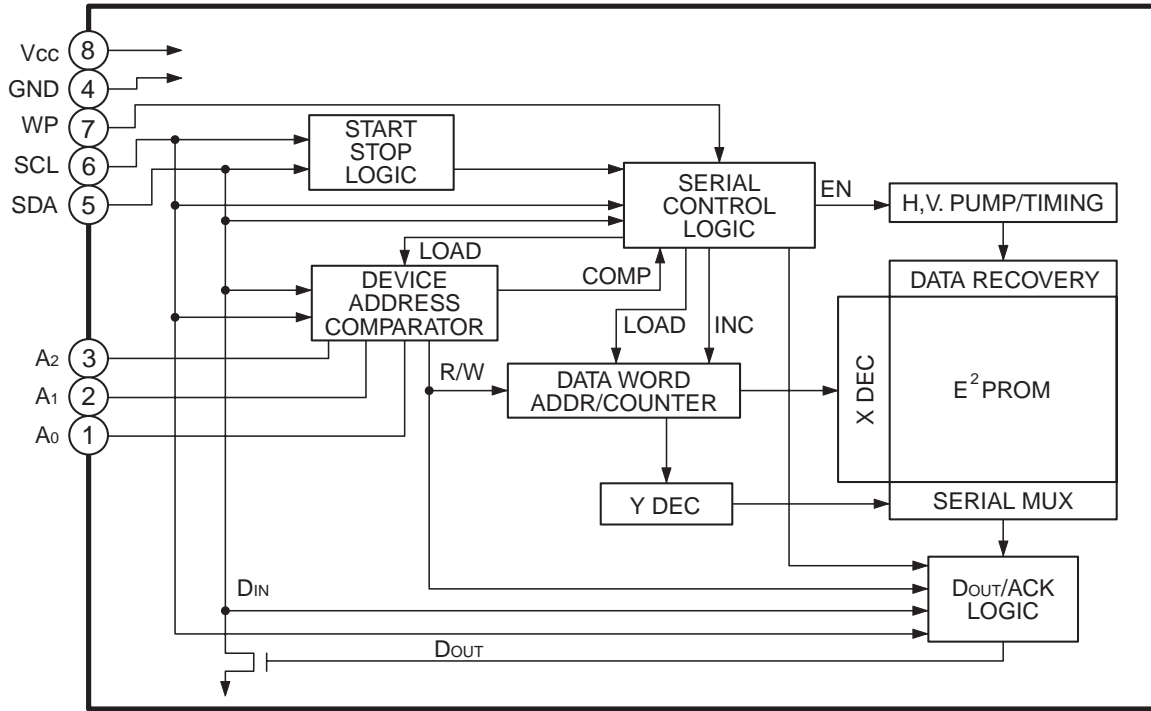
IC454, 484 KRX101U(Switching)



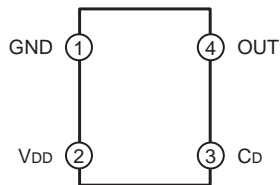
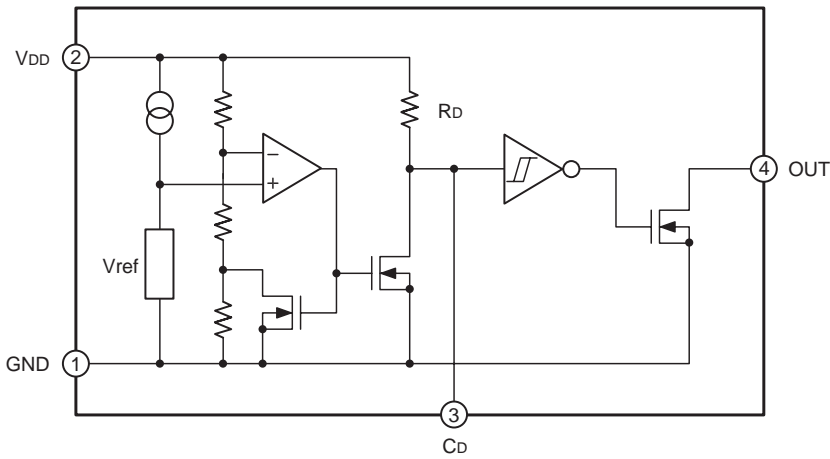
IC461 NJM4556(Operational Amplifier)



IC BLOCK DIAGRAM & DESCRIPTION
IC801 AT24C02N-10SI(EEPROM)



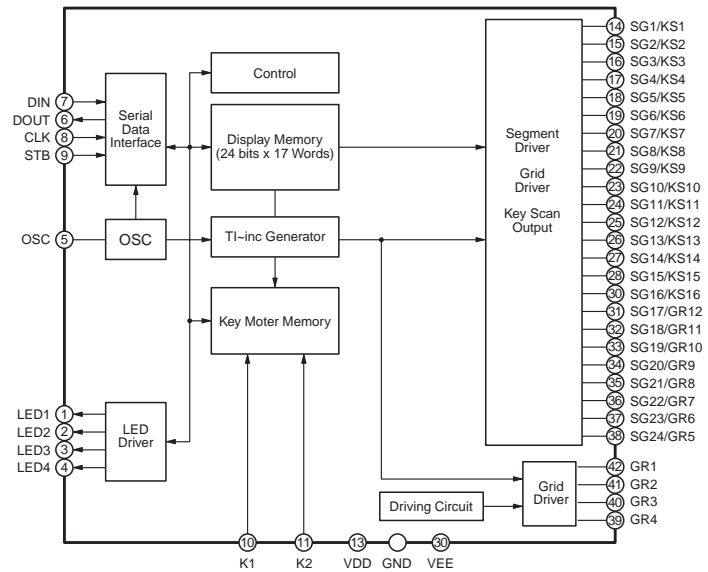
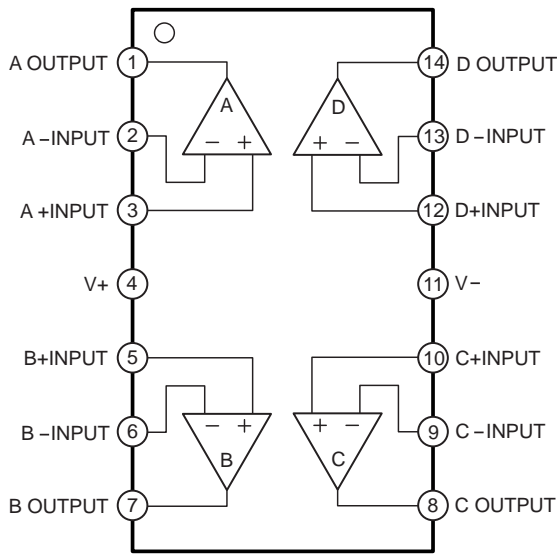
IC802 PTS3627U(Voltage Regulator)



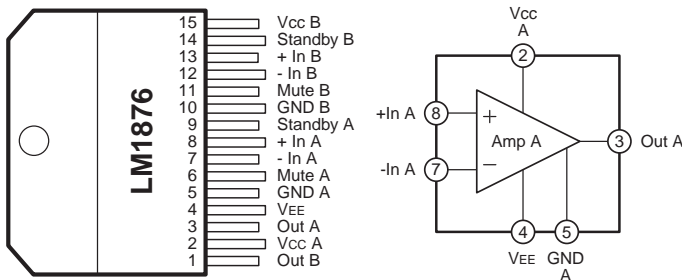
PIN No.	PIN NAME	FUNCTIONS
1	GND	GND Pin
2	V _{DD}	V _{DD} Pin / Voltage Detect Pin
3	C _D	Capacitor Connect Pin with Delay
4	OUT	Reset Signal Output Pin

IC BLOCK DIAGRAM & DESCRIPTION

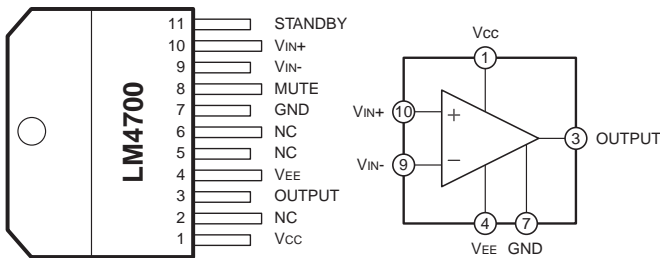
IC471,491 KIA2058,NJM4558M(Operational Amplifier) IC601 PT6315 (VFD Driver/Controller)



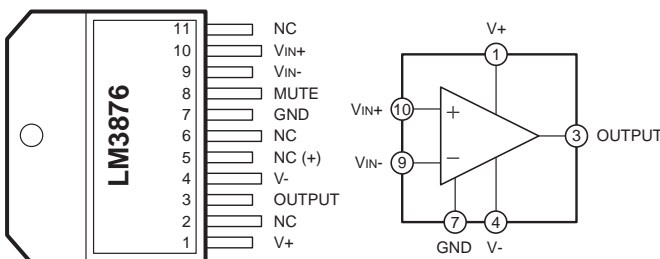
IC462,472 LM1876 (Dual 20W audio Power Amplifier)



IC482 LM4700TF (30w audio Power Amplifier)



IC483 LM3876TF (56w audio Power Amplifier)



Pin Name	I/O	Description	Pin No.
LED1 to LED4	O	LED Output Pin	1 to 4
OSC	I	Oscillator Input Pin A resistor is connected to this pin to determine the oscillation frequency	5
DOUT	O	Data Output Pin (N-Channel, Open-Drain) This pin outputs serial data at the falling edge of the shift clock (starting from the lower bit)	6
DIN (Schmitt Trigger)	I	Data Input Pin This pin inputs serial data at the rising edge of the shift clock (starting from the lower bit)	7
CLK (Schmitt Trigger)	I	Clock Input Pin This pin reads serial data at the rising edge and outputs data at the falling edge.	8
STB (Schmitt Trigger)	I	Serial Interface Strobe Pin The data input after the STB has fallen is processed as a command. When this pin "HIGH", CLK is ignored,	9
K1 to K2	I	Key Data Input Pins The data inputted to these pins are fetched at the end of the display cycle.	10, 11
VSS	-	Logic Ground Pin	12, 44
VDD	-	Logic Power Supply	13, 43
SG1/KS1 to SG16/KS16	O	High-Voltage Segment Output Pins Also acts as the Key Source	14 to 29
VEE	-	Pull-Down Level	30
SG17/GR12 to SG24/GR5	O	High Voltage Segment/Grid Output Pins	31 to 38
GR4 to GR1	O	High-Voltage Grid Output Pins	39 to 42

IC BLOCK DIAGRAM & DESCRIPTION

IC800 ZR36748 (AV Decoder)

Pin No.	Name	I/O	Function
Boot selection, debug interface, GPIO pin, test mode (23pin)			
40	BOOTSEL1	I#	CPU software starting basis select I. Low:starting by flash memory. High : starting by down loaded program from UART.
	GPCI/O[0]#	I/O#	Controlled general I/O by microcomputer software.
	NMI	I	MN1 interrupt I.
208	DUPTD	O	Debug UART data O.
2	DUPRD	I	Debug UART (or IrDA) data I.
41	GPCI/O[1]	I/O	Controlled general I/O by microcomputer software. USE general interrupt I.
42	GPCI/O[2]#	I/O#	Controlled general I/O by microcomputer software. Use general interrupt I.
	SSCSRQ	I	SSC mode : synchronization communication request reception.
43	GPCI/O[3]	I/O	Controlled general I/O by microcomputer software. Use general interrupt I.
44	GPCI/O[4]		N/C
45-47	GPCI/O[5-7]	I/O	Controlled general I/O by microcomputer software. Use general interrupt I.
49	GPCI/O[8]#	I/O	Controlled general I/O by microcomputer software. Use general interrupt I.
	SSCRXD	I	SSC mode : synchronization communication data reception.
51	GPCI/O[9]#	I/O	Controlled general I/O by microcomputer software.
	SSCTXD	O	SSC mode : synchronization communication data transmission.
8	GPCI/O[10]#	I/O#	Controlled general I/O by microcomputer software.
	SSCLK	I	SSC mode : synchronization communication clock reception.
7	GPCI/O[11]#	I/O#	Controlled general I/O by microcomputer software.
	SSCRRQ	O	SSC mode : synchronization communication acknowledge transmission.
5,6	GPCI/O[12-13]	I/O	Controlled general I/O by microcomputer software.
4	GPCI/O[14]	I/O	Controlled general I/O by microcomputer software.
197	GPCI/O[15]#	I/O#	Controlled general I/O by microcomputer software.
	HSYNC	O	Horizontal synchronization O.
196	GPCI/O[16]#	I/O#	Controlled general I/O by microcomputer software.
	VSYNC	O	Vertical synchronization O.
195	GPCI/O[17]#	I/O#	Controlled general I/O by microcomputer software.
	VCLK x 2	O	VCLK x 2 O.
177	GPCI/O[18]#	I/O#	Controlled general I/O by microcomputer software.
	COSYNC	O	Cosync O.
3	GPCI/O[19]#	I/O#	Controlled general I/O by microcomputer software.
	BOOTSEL2	I	Readed by BOOT ROM after hardware reset and used when select flash ROM or flash ROM + SRAM set.
206	TESTMODE	ID	Direct connect to GNDP when usually operation.
PLL signal (4 pin)			
157	RESET#	ID	Reset I (Active low). Initialize process start RESET# signal deassert.
161	GCLK	ID	27.000MHz clock for main process generation or xtal I.
160	XO	AO	Connected xyal to GCLK O. N/C when not use xtal.
194	PLLCFGP#	ID#	Process clock PLL set I. Can change when RESET# assert. Usually operation : low, RESET assert term.
	GPCI/O[20]	I/O	Controlled general I/O by microcomputer software.
Analog video port (5pin)			
169	CVBS/G/Y (DAC A)	AO	YC O : CVBS signal O. RGB O : G signal O. YUV O : Y signal O.

IC BLOCK DIAGRAM & DESCRIPTION

IC800 ZR36748 (AV Decoder)

Pin No.	Name	I/O	Function
172	Y/R/V (DAC B)	AO	YC O : Y signal O. RGB O : R signal O. YUV O : V signal O.
173	C/B/U (DAC C)	AO	YC O : C signal O. RGB O : B signal O. YUV O : U signal O.
170	CVBS/C (DAC D)	AO	Which CVBS signal or C signal O. Select be unrelated to YC / RGB / YUV mode.
175	RSET	AI	DAC adjusting resistor connect.
Digital video port, CPU and ADP test (8 pin)			
199	VID[7]# ICETMS# GPCI/O[22]	O# I# I/O	ITU-R656 conform Y / C multiplex digital video O. ADP ICE interface mode select I. Controlled general I / O by microcomputer software.
201	VID[6]# ICETDI# GPCI/O[23]	O# I# I/O	ITU-R656 conform Y / C multiplex digital video O. ADP ICE interface data I. Controlled general I / O by microcomputer software.
200	VID[5]# ICETDO# GPCI/O[24]	O# O# I/O	ITU-R656 conform Y / C multiplex digital video O. ADP ICE interface data O. Controlled general I / O by microcomputer software.
198	VID[4]# ICETCK# GPCI/O[25]	O# I# I/O	ITU-R656 conform Y / C multiplex digital video O. ADP ICE interface clock I. Controlled general I / O by microcomputer software.
202	VID[3] JTCK# GPCI/O[46]	O# I# I/O	ITU-R656 conform Y / C multiplex digital video O. CPU JTAG clock I. Controlled general I / O by microcomputer software.
203	VID[2]# JTMS# GPCI/O[47]	O# I# I/O	ITU-R656 conform Y / C multiplex digital video O. CPUJTAG tms I. Controlled general I / O by microcomputer software.
205	VID[1]# JTDI# PUPRD	O# I# I	ITU-R656 conform Y / C multiplex digital video O. CPUJTAG data I. Probe UART data I.
204	VID[0]# JTDO# PUPTD	O# O# O	ITU-R656 conform Y / C multiplex digital video O. CPUJTAG data O. Probe UART data O.
Digital audio port (11 pin)			
179	AMCLK	I/O	Audio master clock I / O. 128,192,256 or 384fs sampling frequency (Programmable) use.
181	S/PDIF	O	S / PDIF O.
186,187	AOUT[2:1]		N / C
184	AOUT[0]	O	Digital stereo audio serial data O.
192	AIN	I	Digital stereo audio serial data I.
188	ALRCLK	O	Digital stereo audio bit clock O. Polarity is programmable.
190	ABCLK	O	Digital stereo audio LR clock O. AOUT and AIN data output or latch, clock trailing edge or last transition edge(programmable).
182	GPAI/O	I/O	Controlled general I / O by ADP software.
162	GCLK1	ID	27.000MHz clock I for audio master clock generating. Connected to GCLK when usually operation.
193	PLLCFGA# GPCI/O[21]	ID# I/O	Audio PLL set I. Can change when RESET# signal assert. Usually operation : low RESET# signal assert term. Controlled general I / O by microcomputer software.

IC BLOCK DIAGRAM & DESCRIPTION

IC800 ZR36748 (AV Decoder)

Pin No.	Name	I/O	Function
Loader interface, AV bit stream interface (25pin)			
18	ATDD[11]# DVDDAT[0]	I/O# I	ATAPI data I / O. A / V data I.
16	ATDD[4]# DVDDAT[1]	I/O# I	ATAPI data I / O. A / V data I.
14	ATDD[10]# DVDDAT[2]	I/O# I	ATAPI data I / O. A / V data I.
13	ATDD[5]# DVDDAT[3]	I/O# I	ATAPI data I / O. A / V data I.
11	ATDD[6]# DVDDAT[5]# GPCI/O[26]	I/O# I# I/O	ATAPI data I / O. A / V data I. Controlled general I / O by microcomputer software.
9	ATDD[7]# DVDDAT[7]# GPCI/O[27]	I/O# I# I/O	ATAPI data I / O. A / V data I. Controlled general I / O by microcomputer software.
10	ATDD[8]# DVDDA[6]# GPCI/O[28]	I/O# I# I/O	ATAPI data I / O. A / V data I. Controlled general I / O by microcomputer software.
12	ATDD[9]# DVDDAT[4]# GPCI/O[29]	I/O# I# I/O	ATAPI data I / O. A / V data I. Controlled general I / O by microcomputer software.
19	ATDD[3]# DVDREG# GPCI/O[30]	I/O# I# I/O	ATAPI data I / O. A / V data request O (Polarity is programmable). Controlled general I / O by microcomputer software.
20	ATDD[12]# DVDVALID	I/O# I	ATAPI data I / O. A / V data active I (Polarity is programmable).
21	ATDD[2]# DVDERR# GPCI/O[32]	I/O# I# I/O	ATAPI data I / O. A / V error I (Polarity is programmable). Controlled general I / O by microcomputer software.
22	ATDD[13]# DVDSOS	I/O# I	ATAPI data I / O. A / V sector opening I (Polarity is programmable).
23	ATDD[1]# DVDSTRB	I/O# I	ATAPI data I / O. A / V data bit strobe (Clock) I (Polarity is Programmable).
24	ATDD[14]# GPCI/O[34]# MEMCS[3]#	I/O# I/O# O	ATAPI data I / O. Controlled general I / O by microcomputer software. General chip select O, from CPU to external device.
32	ATINTRQ# GPCI/O[35]	I# I/O	ATAPI interruptio requirement I. Controlled general I / O by microcomputer software.
26	ATDD[15]# GPCI/O[36]	I/O# I/O	ATAPI data I / O. Controlled general I / O by microcomputer software.
27	ATLOW# GPCI/O[37]	O# I/O	ATAPI PIO write signal O. Controlled general I / O by microcomputer software.
29	ATIOR# GPCI/O[38]	O# I/O	ATAPI PIO read signal O. Controlled general I / O by microcomputer software.
31	ATIORDY# SERVDSPRDY# GPCI/O[39]	I# I# I/O	ATAPI PIO ready signal I. Survo DSP ready signal I. Controlled general I / O by microcomputer software.
25	ATDD[0]# GPCI/O[40]	I/O# I/O	ATAPI data I / O. Controlled general I / O by microcomputer software.
34	ATDA[2]# GPCI/O[41]	O# I/O	ATAPI address signal O. Controlled general I / O by microcomputer software.
36	ATDA[1]# CDERR# GPCI/O[42]	O# I I/O	ATAPI address signal O. CD-DSP error signal I. Controlled general I / O by microcomputer software.
37	ATDA[0]# CDFRM# GPCI/O[43]	O# I# I/O	ATAPI address signal O. CD-DSP frame signal I. Controlled general I / O by microcomputer software.

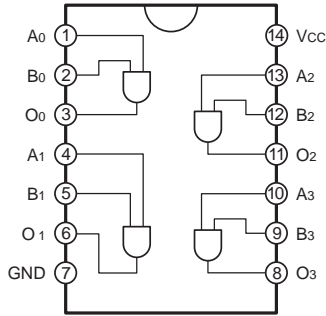
IC BLOCK DIAGRAM & DESCRIPTION

IC800 ZR36748 (AV Decoder)

Pin No.	Name	I/O	Function
38	ATCS1#	O#	ATAPI chip select signal O.
	CDCLK#	I#	CD-DSP bit clock signal I.
	GPCI/O[44]	I/O	Controlled general I / O by microcomputer software.
39	ATCS0#	O#	ATAPI chip select signal O.
	CDDAT#	I#	CD-DSP data I.
	GPCI/O[45]	I/O	Controlled general I / O by microcomputer software.
ADC interface (3 pin)			
164~166	SERADC[2:0]	I	ADC analog I.
SDRAM interface (36 pin)			
80,82,84,86, 87,89,90,92, 93,95,96,98, 99,101,102, 104	RAMDAT[15:0]	I/O	SDRAM data I / O.
53~55,57~60, 62~64,67,70	RAMADD[11:0]	O	SDRAM address O.
72	RAMRAS#	O	SDRAM low select O (Active low).
74	RAMCAS#	O	SDRAM column select O (Active low).
78	PCLK	O	SDRAM clock O (Same internal process clock).
76	RAMDQM	O	SDRAM data mask O (Active high).
66,68	RAMBA[1:0]	O	SDRAM bank select O.
71	RAMCS#	O	SDRAM chip select O (Active low).
75	RAMWE#	O	SDRAM write enable O (Active low).
External memory interface (41 pin)			
105~113, 117~122	MEMDA[15:0]	I/O	External memory data I / O.
131,133~138, 140,142~150, 152,154	MEMAD[18:0]	O	External memory address O. Used MEMAD (18 : 16) for PLL debug.
155	MEMAD[19]#	O#	External address O.
	GPCI/O[33]	I/O	Controlled general I / O by microcomputer software.
129	MEMWR#	O	External memory write enable O (Active low).
128	MEMRD#	O	External memory read enable O (Active low).
124,126	MEMCS[1:0]#	O	External memory chip select O (Active low).
123	MEMCS[2]#	O#	External memory chip select O (Active low).
	GPCI/O[31]	I/O	Controlled general I / O by microcomputer software.
Power supply (52 pin)			
15,33,50,56, 65,73,79,88, 94,100,114, 125,139,151, 189,207	GNDP	S	3.3V digital peripheral power supply GND (16 pin).
1,17,35,61,69, 77,85,91,97, 103,116,127, 141,153,191	VDDP	S	3.3V digital peripheral power supply (16 pin).
48,159	VDDIP	S	3.3V peripheral reference voltage (2 pin).
178	GNDP2	S	Filtered 3.3V digital power supply GND for AMCLK.
180	VDDP2	S	Filtered 3.3V digital power supply for AMCLK.
30,81,132,183	GNDC	S	1.8V digital core power supply GND (4 pin).
28,83,130,185	VDDC	S	1.8V digital core power supply (4 pin)
158	GND A	S	Internal PLL circuit GND.
156	VDDA	S	1.8V internal PLL circuit power supply.
171	VDDDAC	S	3.3V DAC analog power supply.
168,174,176	GNDDAC[D,B,P]	S	3.3V DAC analog power supply GND (3 pin).
163	GNDADC	S	3.3V ADC analog power supply.
167	GNDADC	S	3.3V ADC analog power supply GND.

IC BLOCK DIAGRAM & DESCRIPTION

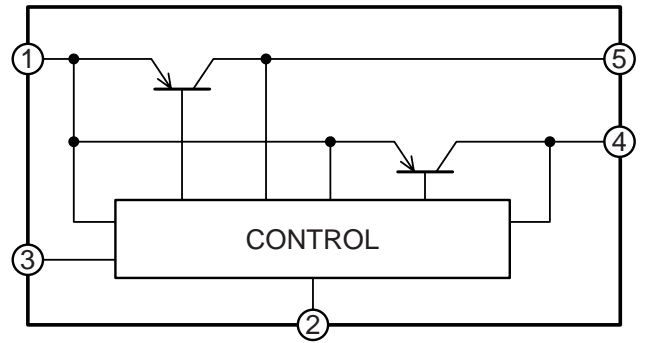
IC806 74VHCT08A (Quad 2-Input AND Gate)



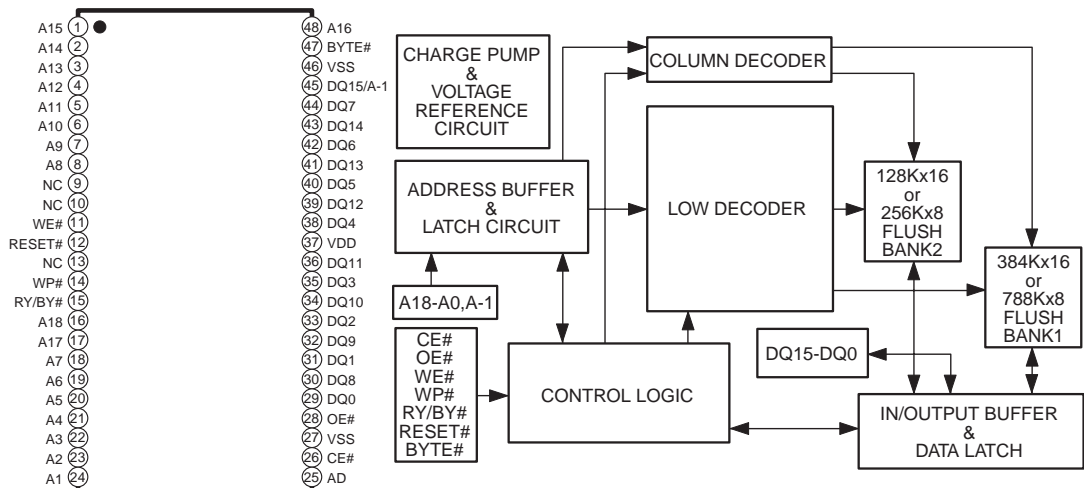
A	B	O
L	L	L
L	H	L
H	L	L
H	H	H

Pin Names	Description
An, Bn	Inputs
On	Outputs

IC850 PQ2L2182MS (Regulator)



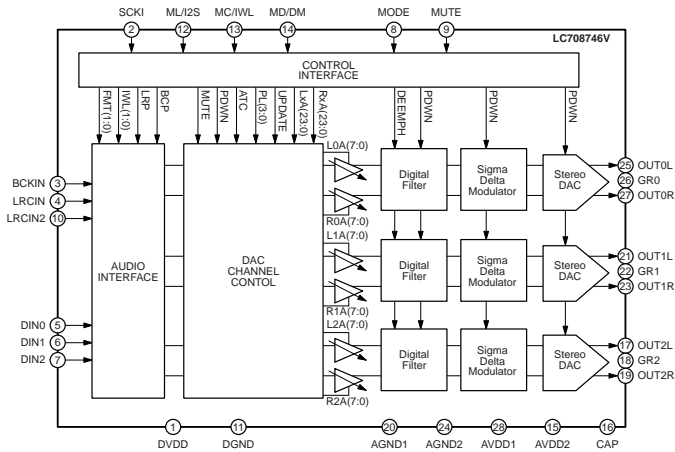
IC818 LE28DW8163T (8Mbit Flash)



Symbols	Pin Name	Functions
A18,A17	Bank Selective Address	Selects bank 1 when "L" and bank 2.
A16-A0,A-1	Flush Bank Address	Supply address for flush bank.
A18-A15	Flush Bank Block Address	Select flush bank for erase.
A18-A10	Flush Bank Sector Address	Select flush bank sector for erase.
DQ15-DQ0	Data Input/Output	To output data during read cycle and receive input data during write cycles. Data is internally latched during a write cycle. The output are high impedance when OE#,CE# is "H".
CE#	Chip Enable	To activate the flush bank when CE# is "L".
OE#	Output Enable	To activate the data output buffer.
WE#	Write Enable	To control the write, erase and program.
BYTE#	Byte Pin	Byte mode when "L" and word mode when "H".
RY/BY#	Ready/Busy Output	Output "L" when write and except "H".
WP#	Write Protect	To activate hardware write protect when "L".
RESET#	Reset	To activate hardware reset when "L".
VDD	Power Supply	2.7V-3.6V supply.
VSS	Ground	

IC BLOCK DIAGRAM & DESCRIPTION

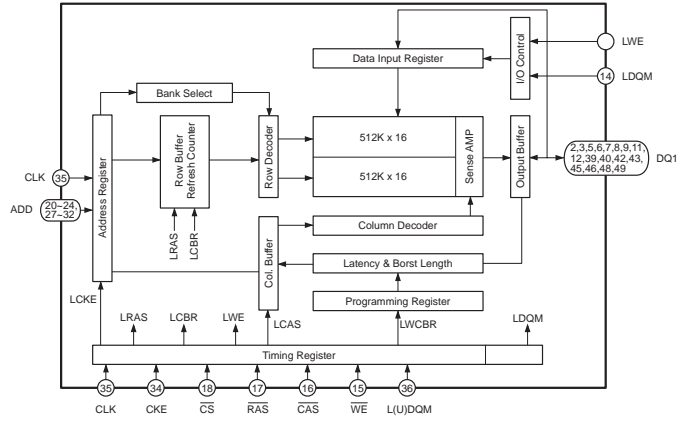
IC870 LC708746V (6 ch. DAC)



Pin No.	Name	Type	Function	
1	DVDD	Supply	Digital power source	
2	SCKI	Digital input	System clock input	
3	BCKIN	Digital input	Audio data bit clock input	
4	LRCIN	Digital input	Sampling rate clock (LRCK) input	
5	DIN0	Digital input	Channel 0 Serial audio data input	
6	DIN1	Digital input	Channel 1 Serial audio data input	
7	DIN2	Digital input	Channel 2 Serial audio data input	
8	MODE	Digital input	Control mode select	
9	MUTE	Internal pull-up	Low= Software mode	
			High= Hardware mode	
		Digital bidirectional	Mute control (PCM mode)	
10	LRCIN2	Digital input	192KHz/96KHz Mode active 2nd LRCIN input	
		Internal pull-down		
			Input	Output (Auto mute active)
			Low; Not mute	Low; Mute off
		High; Mute	High; Mute on	
		Z; Auto mute		
11	DGND	Supply	Digital GND	
12	ML/12S	Digital input	Software mode; 3way serial control latch lag	
13	MC/IWL	Digital input	Software mode; 3way serial control clock input	
		Internal pull-up	Hardware mode; Input word length select	
14	MD/DM	Digital input	Software mode; 3way serial control data input	
		Internal pull-up	Hardware mode; Deepphasis select	
15	AVDD2	Supply	Analogue power source	
16	CAP	Analogue output	Analogue power VREF de-coupling	
17	OUT2L	Analogue output	Lch 2 Output	
18	GR2	Analogue input	Ch 2 GND	
19	OUT2R	Analogue output	Rch 2 Output	
20	AGND1	Supply	Analogue GND	
21	OUT1L	Analogue output	Lch 1 Output	
22	GR1	Analogue input	Ch 1 GND	
23	OUT1R	Analogue output	Rch 1 Output	
24	AGND2	Supply	Analogue GND	
25	OUTOL	Analogue output	Lch 0 Output	
26	GR0	Analogue input	Ch 0 GND	
27	OUTOR	Analogue output	Rch 0 Output	
28	AVDD1	Supply	Analogue power source	

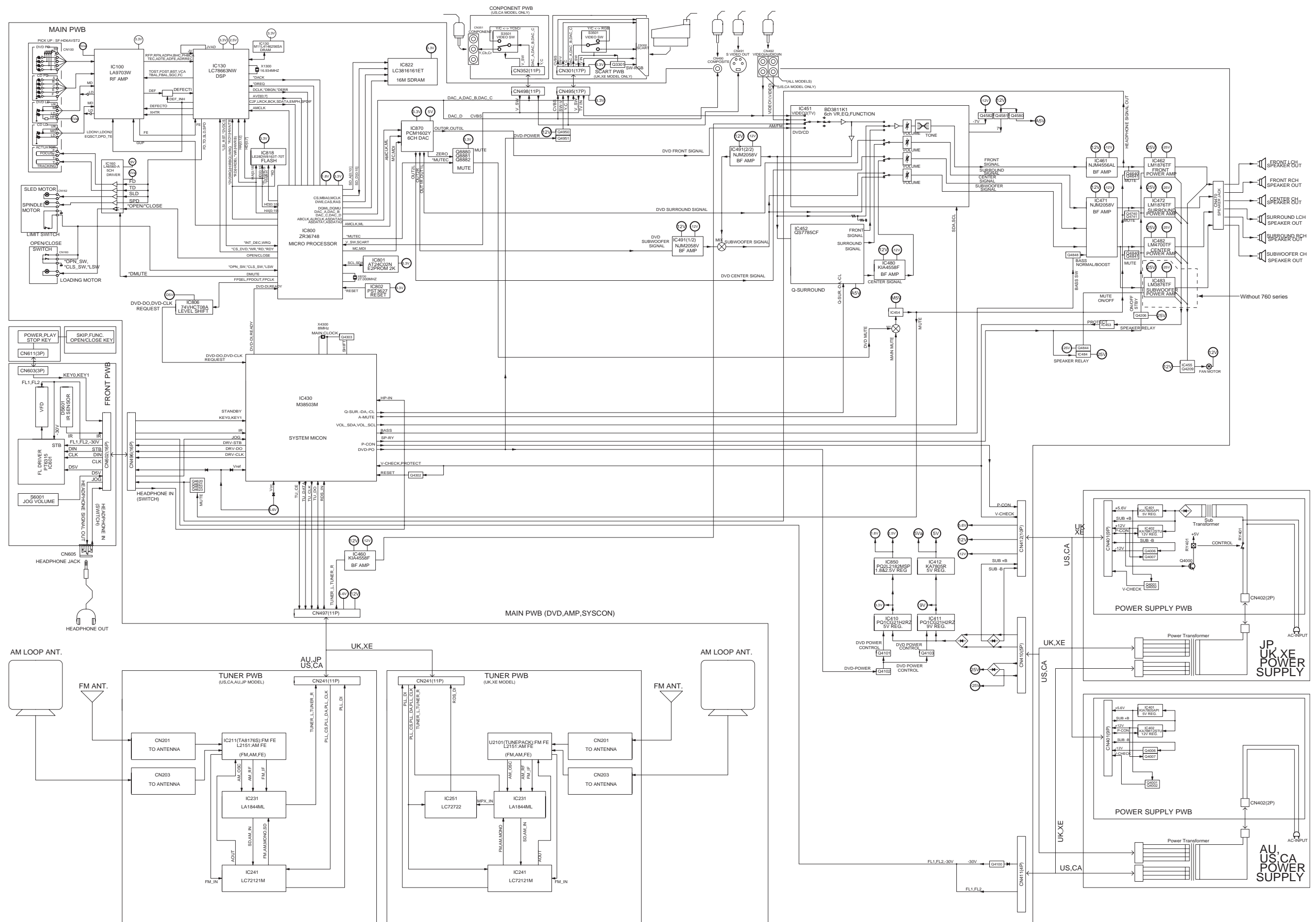
IC822 K4S16162D

(512 X 16Bit X 2 Bank synchronous DRAM)



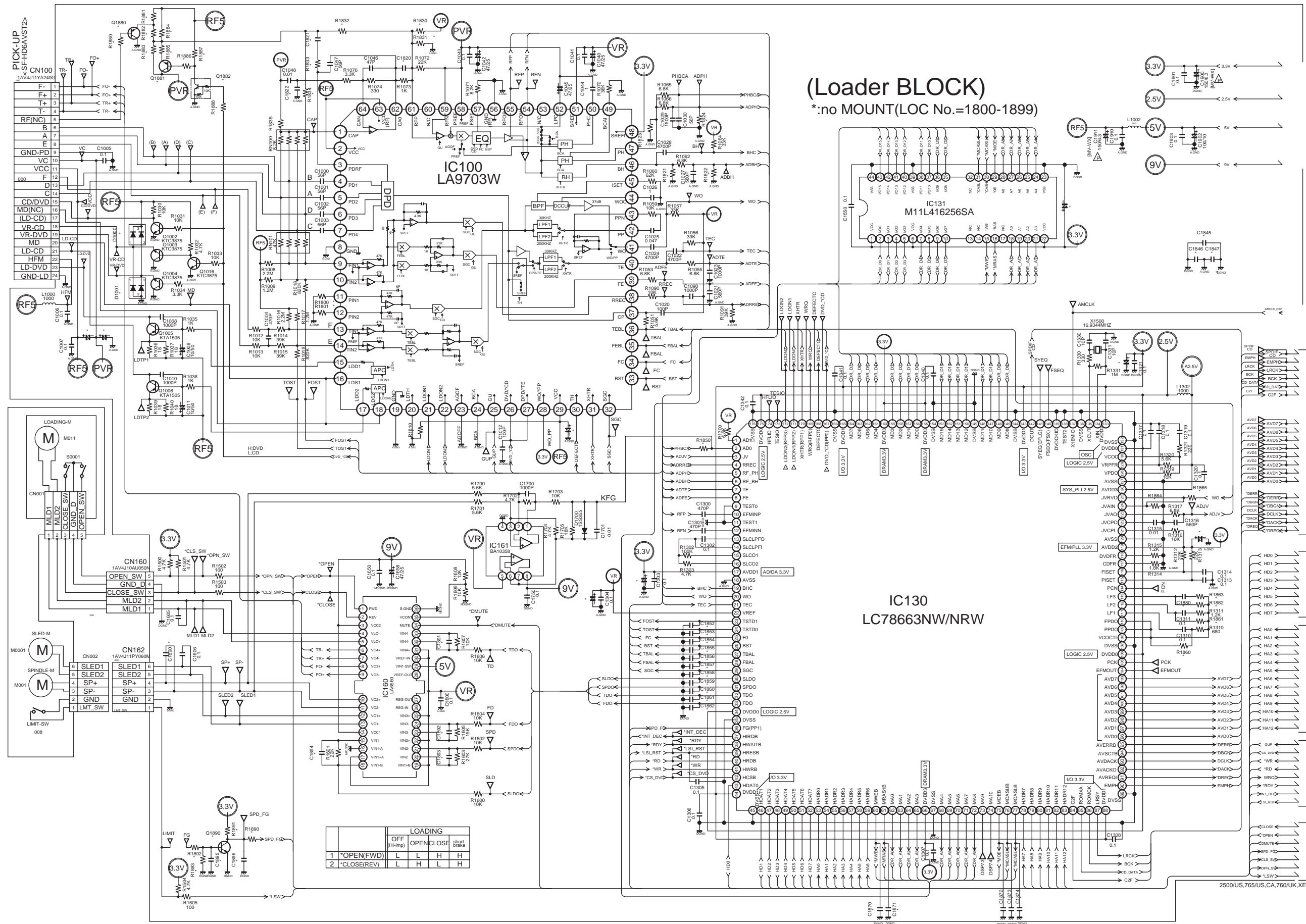
Pin	NAME	Input Function
CLK	System Clock	Active on the positive going edge to sample all inputs.
CS	Chip Select	Disables or enables device operation by masking or enabling all inputs except CLK, CKE and L(U)DQM
CKE	Clock Enable	Masks system clock to freeze operation from the next clock cycle. CKE should be enabled at least one cycle prior to new command. Disable input buffers for power down in standby.
A0 - A10/AP	Address	Row/column addresses are multiplexed on the same pins. Row address : RA0 - RA10, Column address : CA0 - CA7
BA	Bank Select Address	Selects bank to be activated during row address latch time. Selects bank for read/write during column address latch time.
RAS	Row Address Strobe	Latches row addresses on the positive going edge of the CLK with RAS low. Enables row access & precharge.
CAS	Column Address Strobe	Latches column addresses on the positive going edge of the CLK with CAS low. Enables column access.
WE	Write Enable	Enables write operation and row precharge. Latches data in starting from CAS, WE active.
L(U)DQM	Data Input/Output Mask	Masks data output Hi-Z, (is-z after the clock and masks the output. Blocks data input when L(U)DQM active.
DQ0 - 15	Data Input/Output	Data inputs/outputs are multiplexed on the same pins.
VDD/VSS	Power Supply/Ground	Power and ground for the input buffers and the core logic.
VDDQ/VSSQ	Data Output Power/Ground	Isolated power supply and ground for the output buffers to provide improved noise immunity.
N.C./RFU	No Connection/ Reserved for Future Use	This pin is recommended to be left No Connection on the device.

BLOCK DIAGRAM

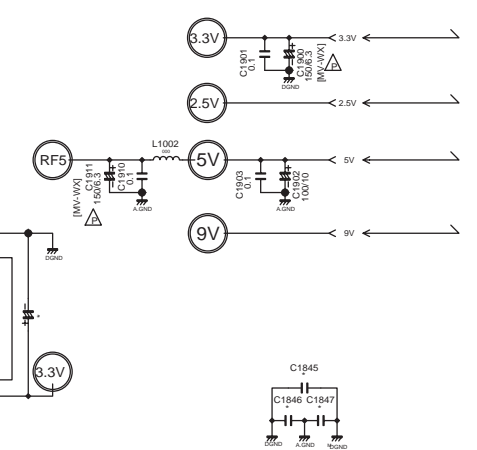


This is a basic block diagram.

SCHEMATIC DIAGRAM (DVD)



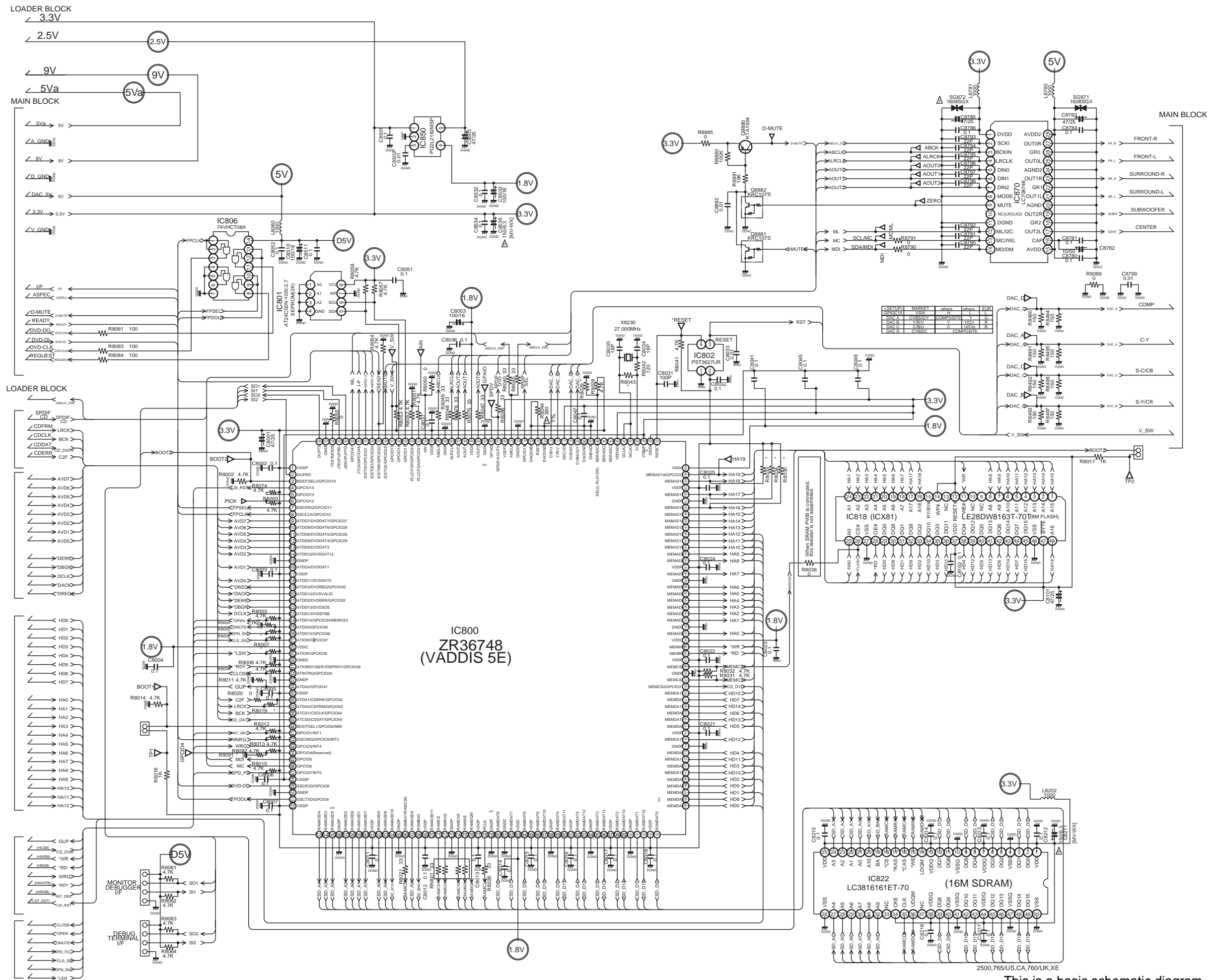
(Loader BLOCK)
*:no MOUNT(LOC No.=1800-1899)



PRODUCT SAFETY NOTICE

EACH PRECAUTION IN THIS MANUAL SHOULD BE FOLLOWED DURING SERVICING. COMPONENTS IDENTIFIED WITH THE IEC SYMBOL Δ AND \triangle MARK IN THE PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATED COMPONENTS IN WHICH SAFETY AND PERFORMANCE CAN BE OF SPECIAL SIGNIFICANCE. WHEN REPLACING A COMPONENT IDENTIFIED BY Δ AND \triangle , USE ONLY THE REPLACEMENT PARTS DESIGNATED, OR PARTS WITH THE SAME RATINGS OF RESISTANCE, WATTAGE OR VOLTAGE THAT ARE DESIGNATED IN THE PARTS LIST IN THIS MANUAL. LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS MUST BE MADE TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE PRODUCT TO THE CUSTOMER.

SCHEMATIC DIAGRAM (MPEG)

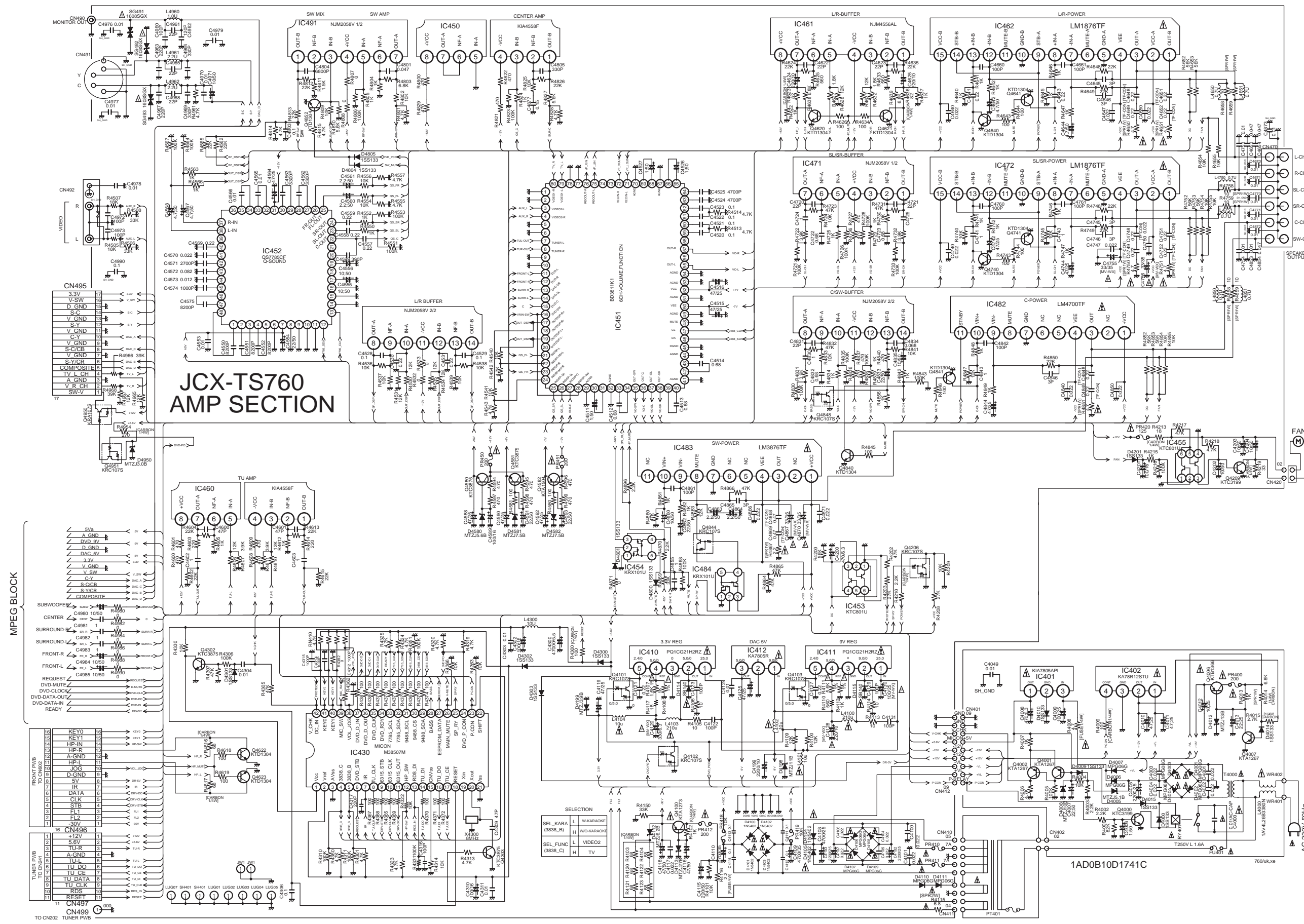


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This is a basic schematic diagram.

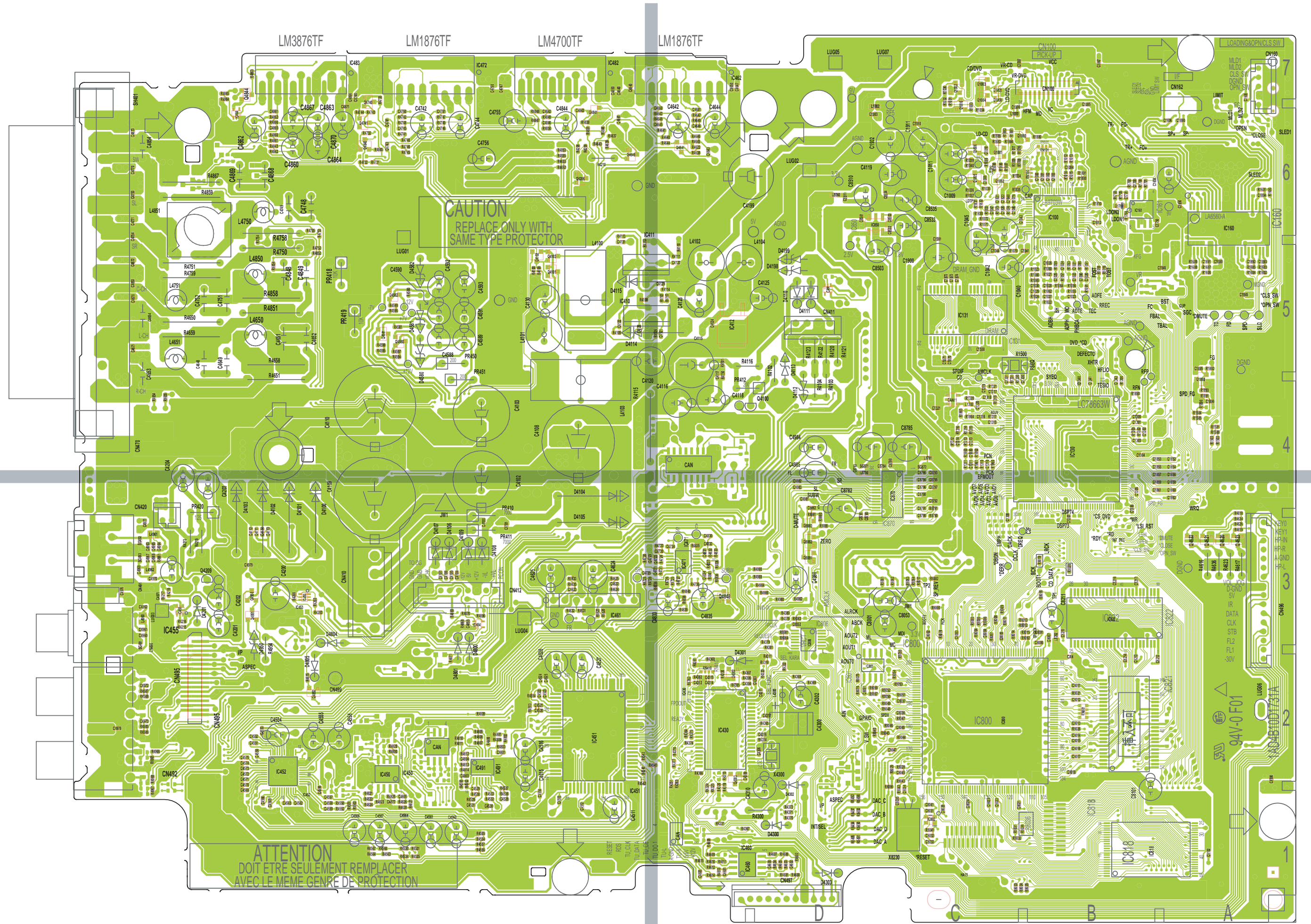
SCHEMATIC DIAGRAM (AMP)

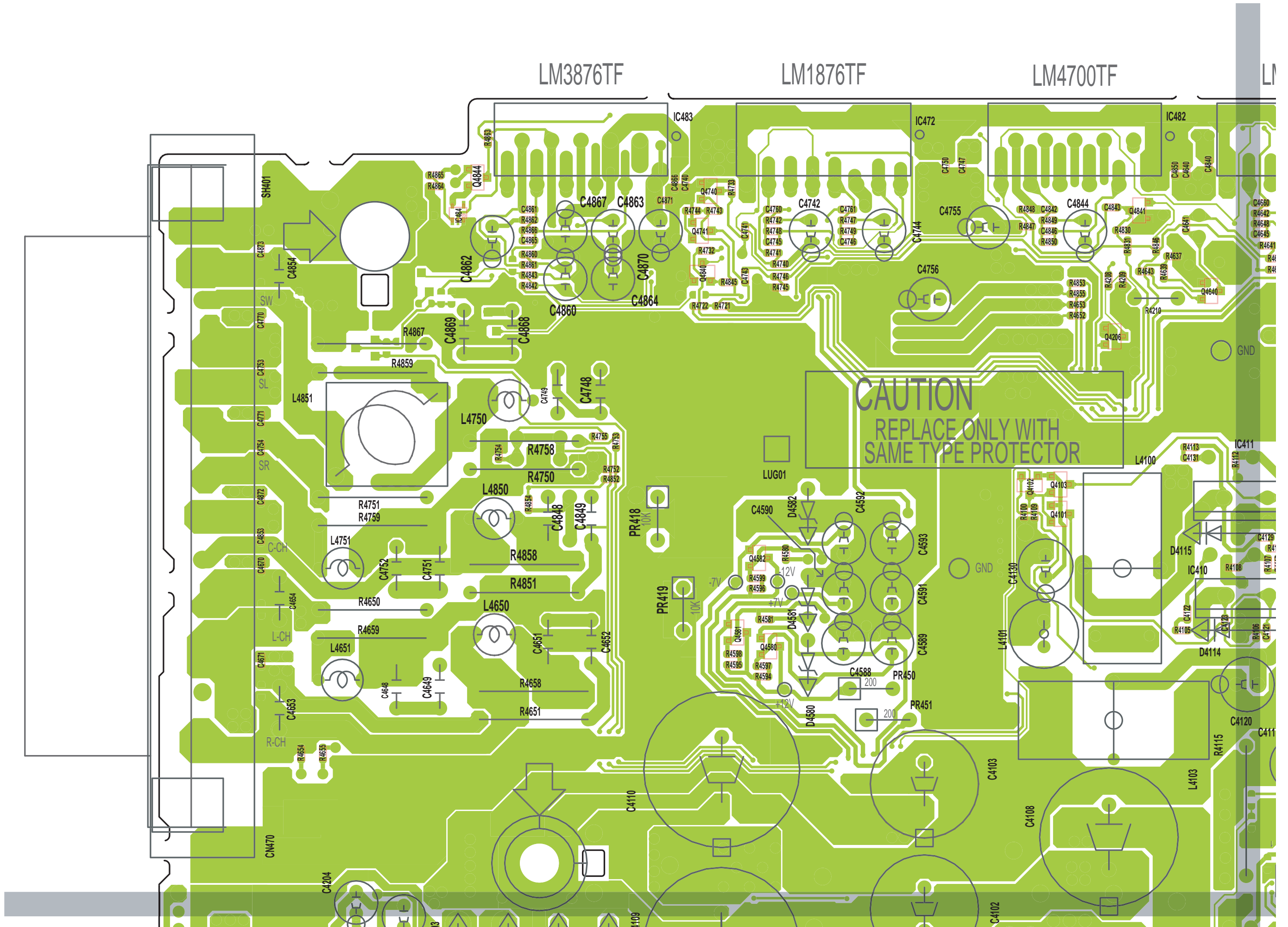


JCX-TS760 AMP SECTION

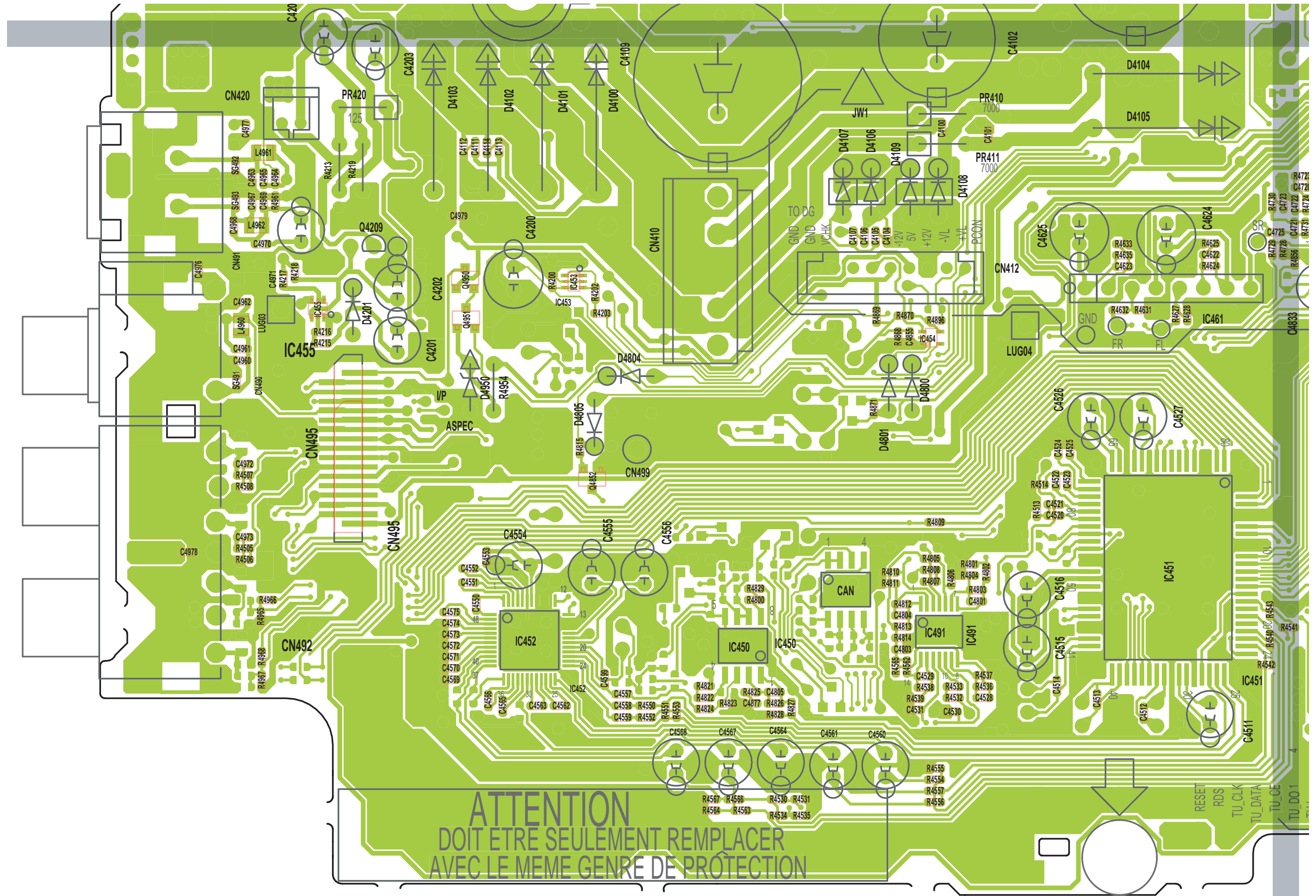
PRODUCT SAFETY NOTICE

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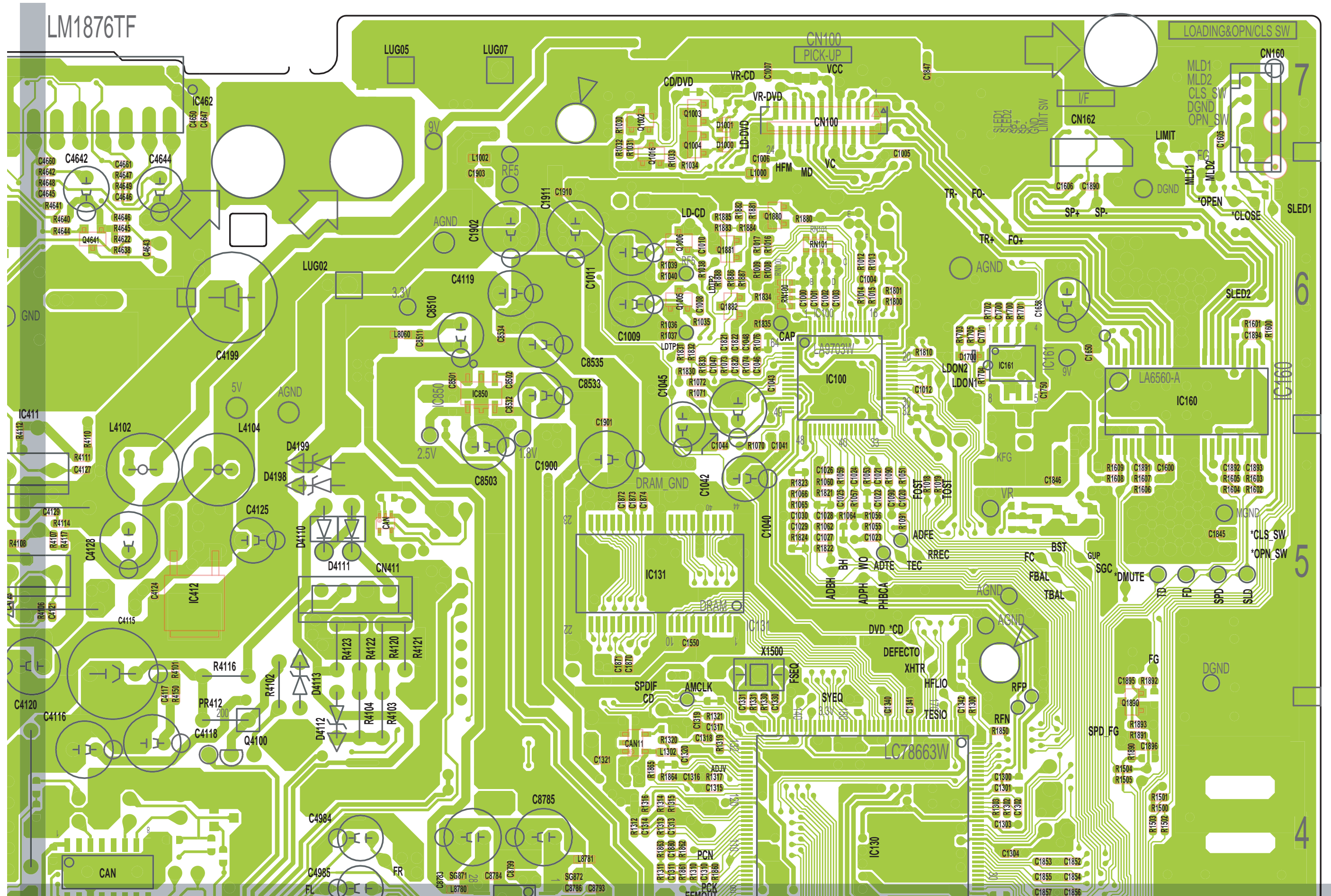




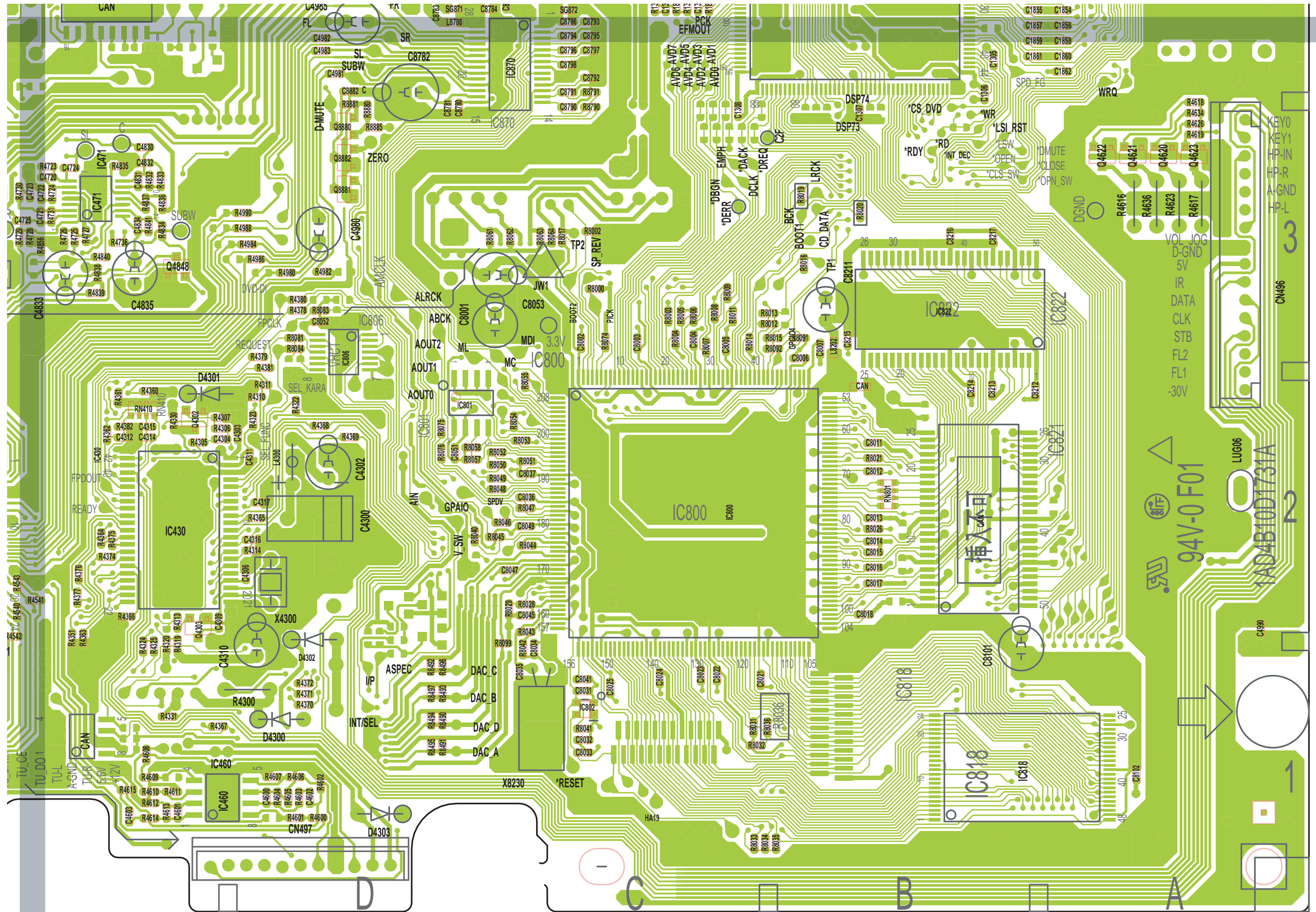
WIRING DIAGRAM (MAIN A Side Bottom Left)



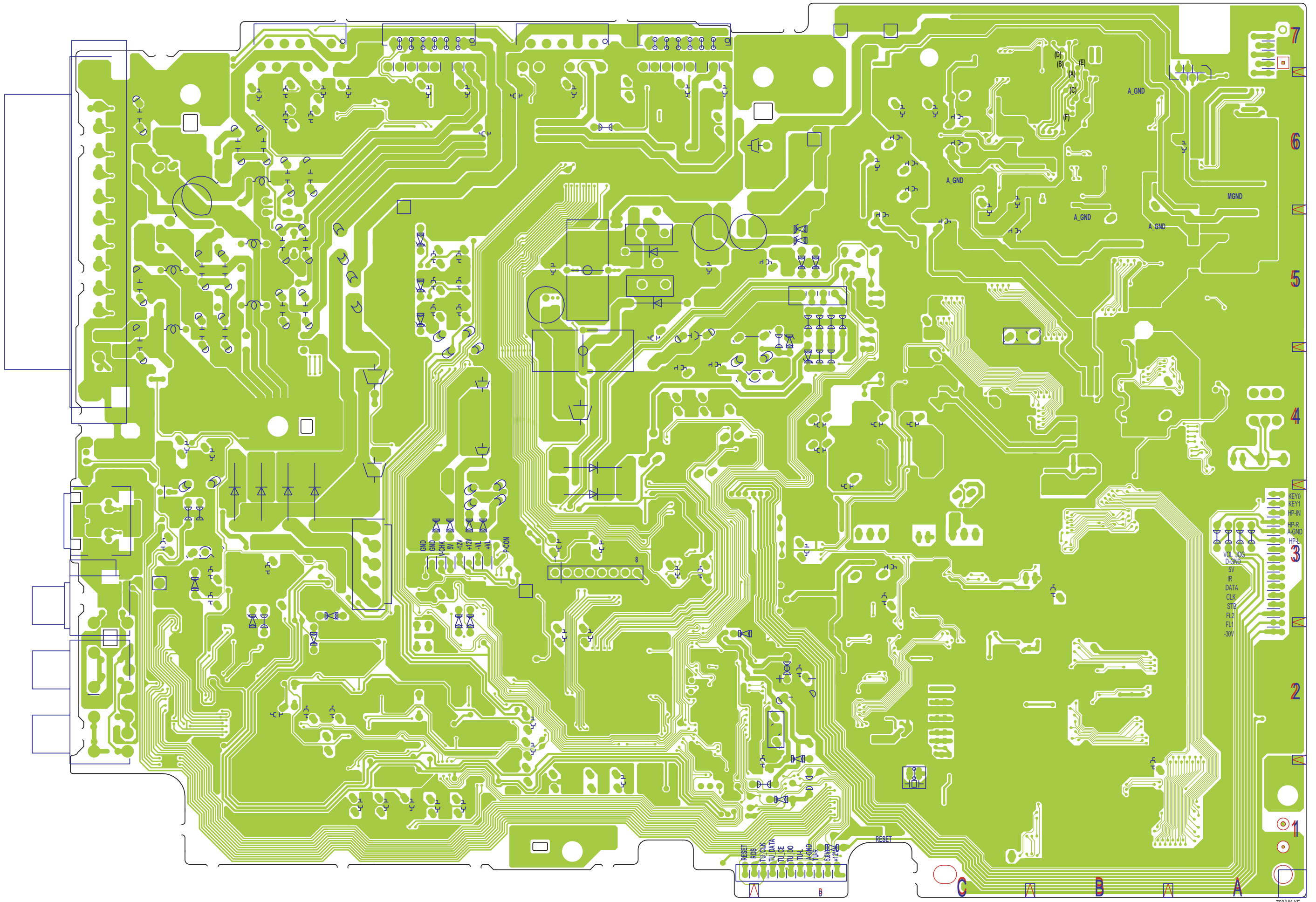
WIRING DIAGRAM (MAIN A Side Top Right)



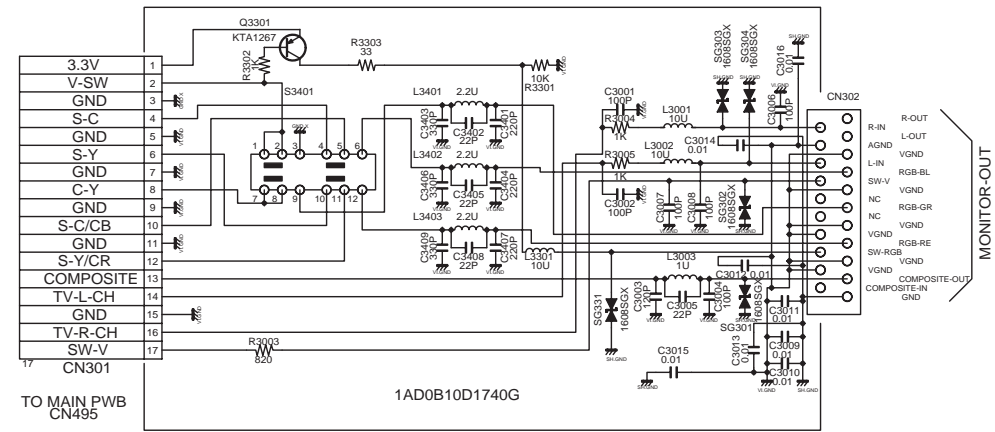
WIRING DIAGRAM (MAIN A Side Bottom Right)



WIRING DIAGRAM (MAIN B Side)



SCHEMATIC DIAGRAM (FRONT , TUNER)

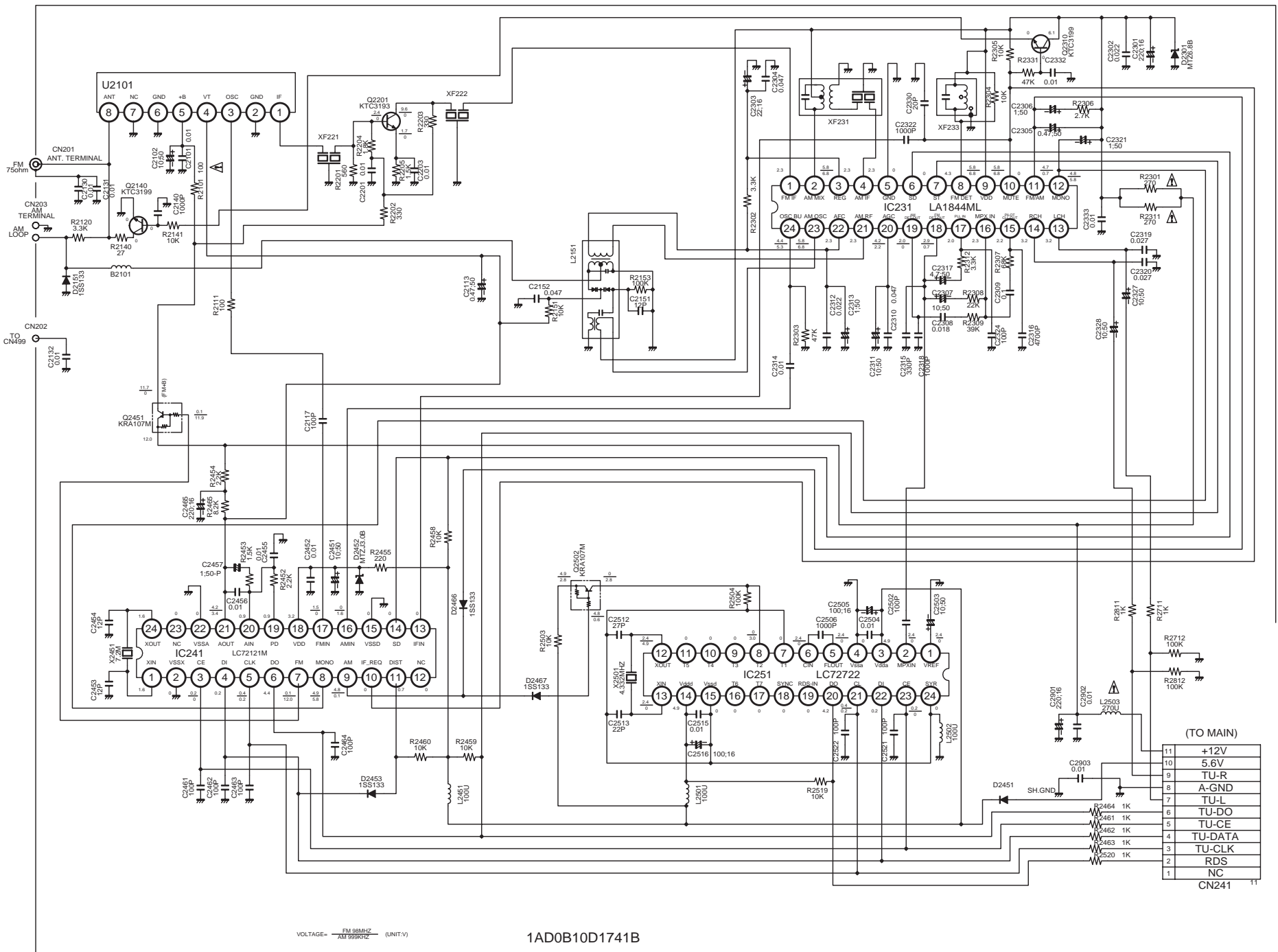
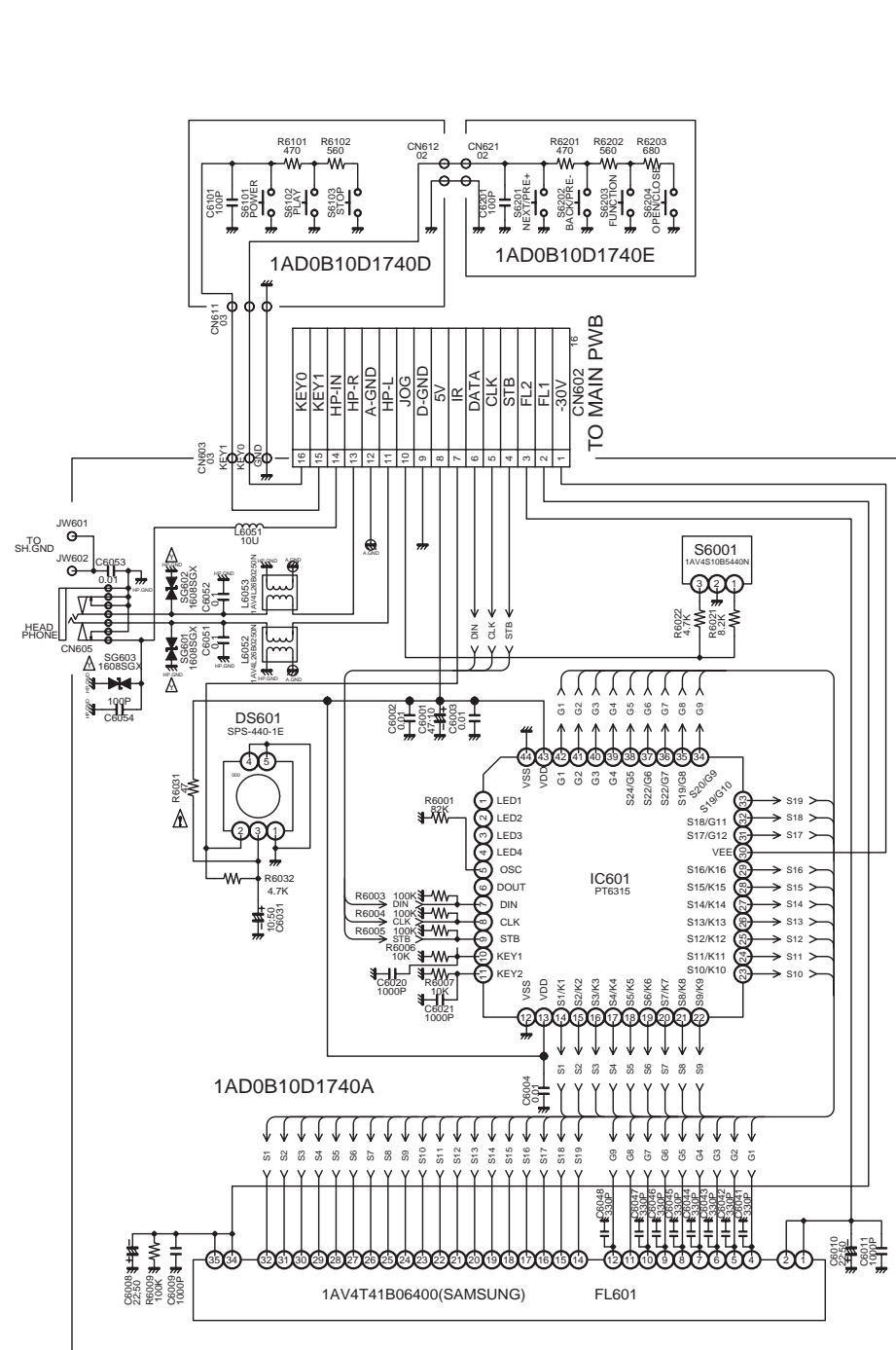


PRODUCT SAFETY NOTICE

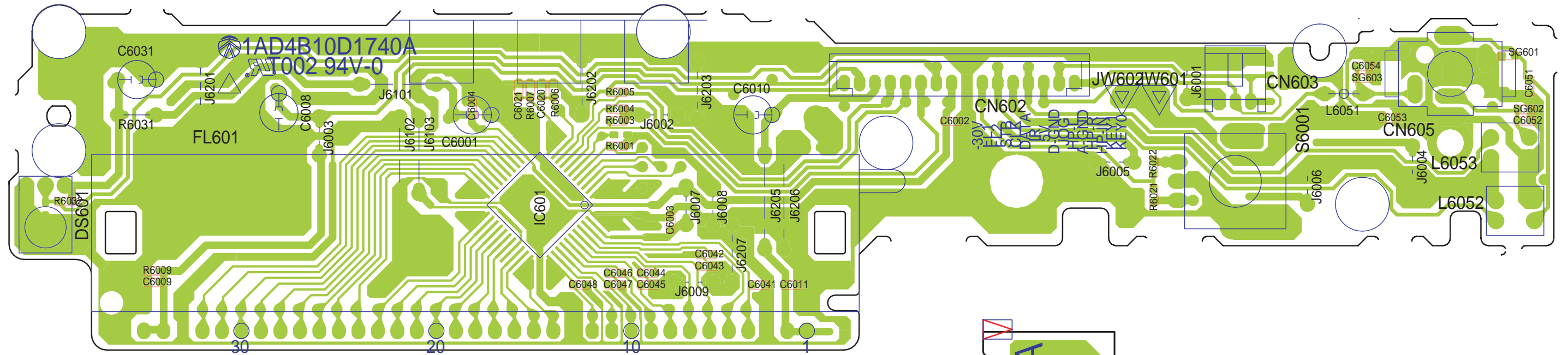
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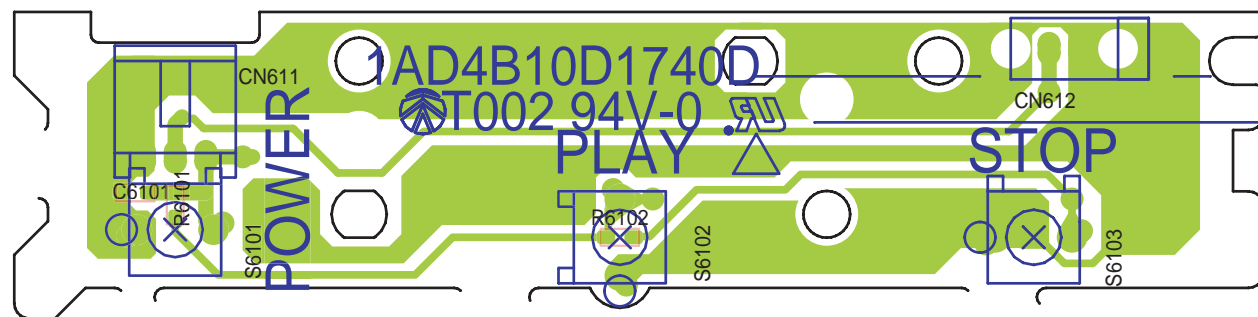
LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS MUST BE MADE TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE PRODUCT TO THE CUSTOMER.



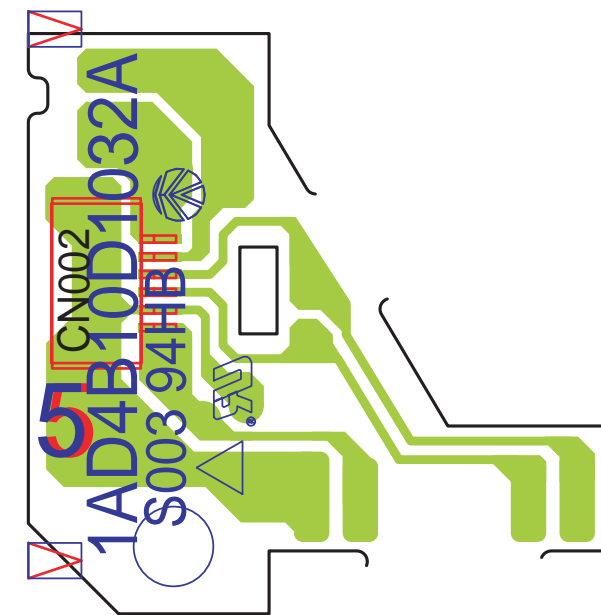
WIRING DIAGRAM (FRONT , SW1 BUTTON, SW2 BUTTON, MECHA SW and MECH IF)



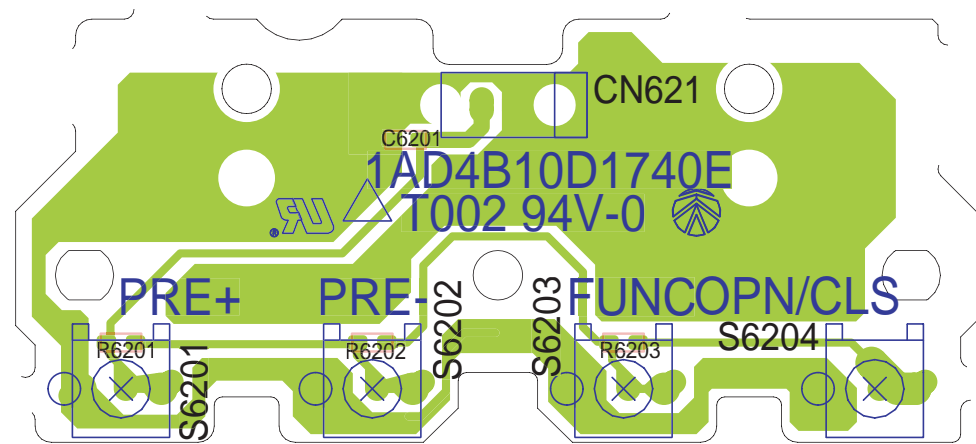
FRONT



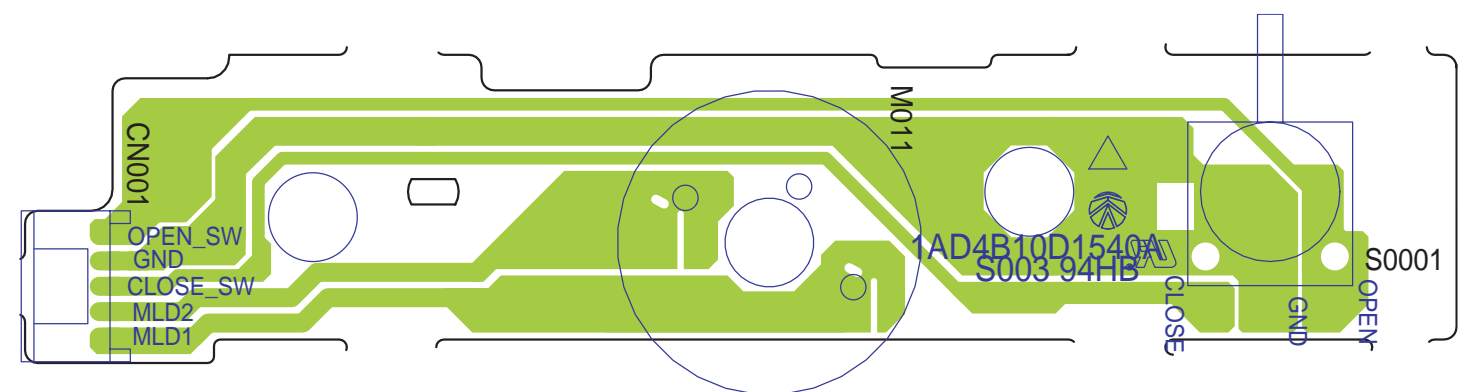
SW1 BUTTON



MECHA-IF

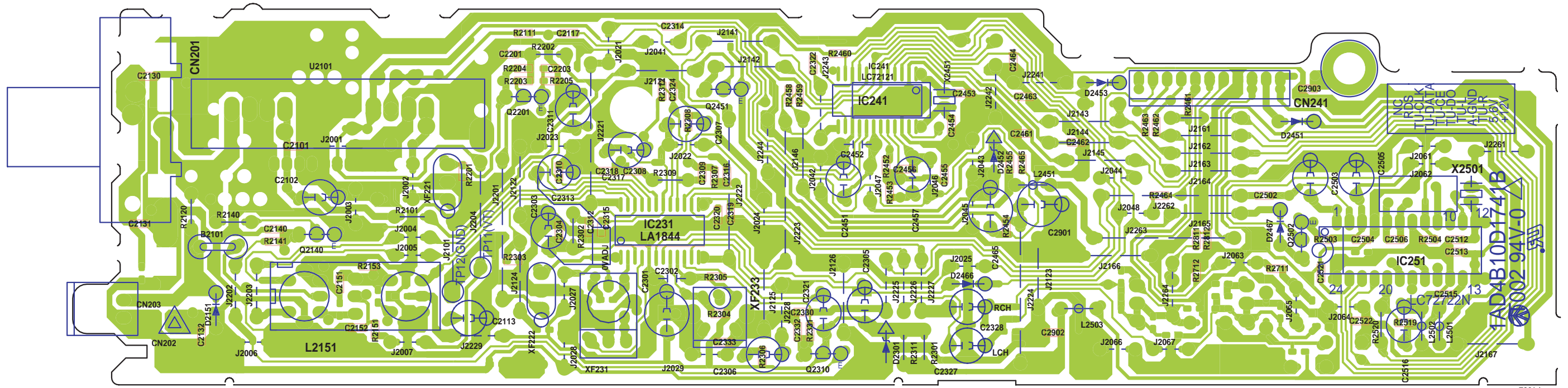


SW2 BUTTON



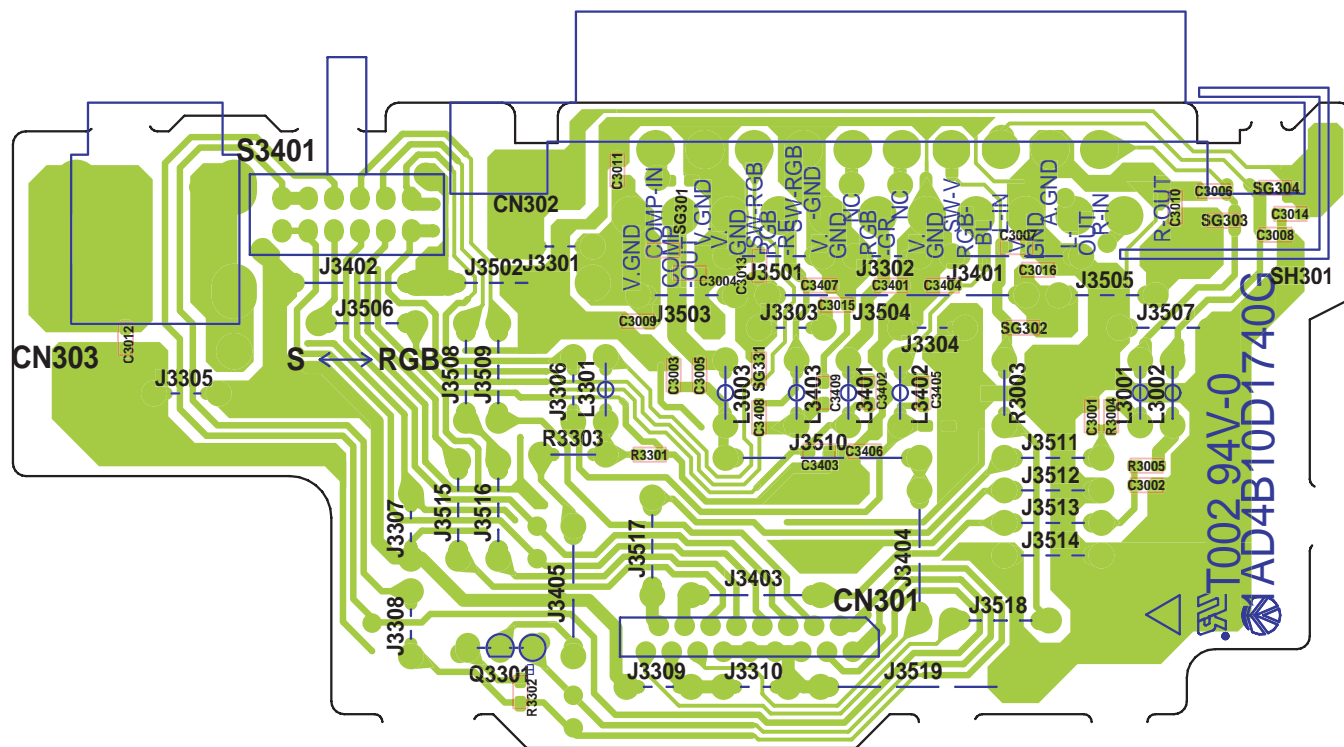
MECHA-SW

WIRING DIAGRAM (TUNER and SCART)



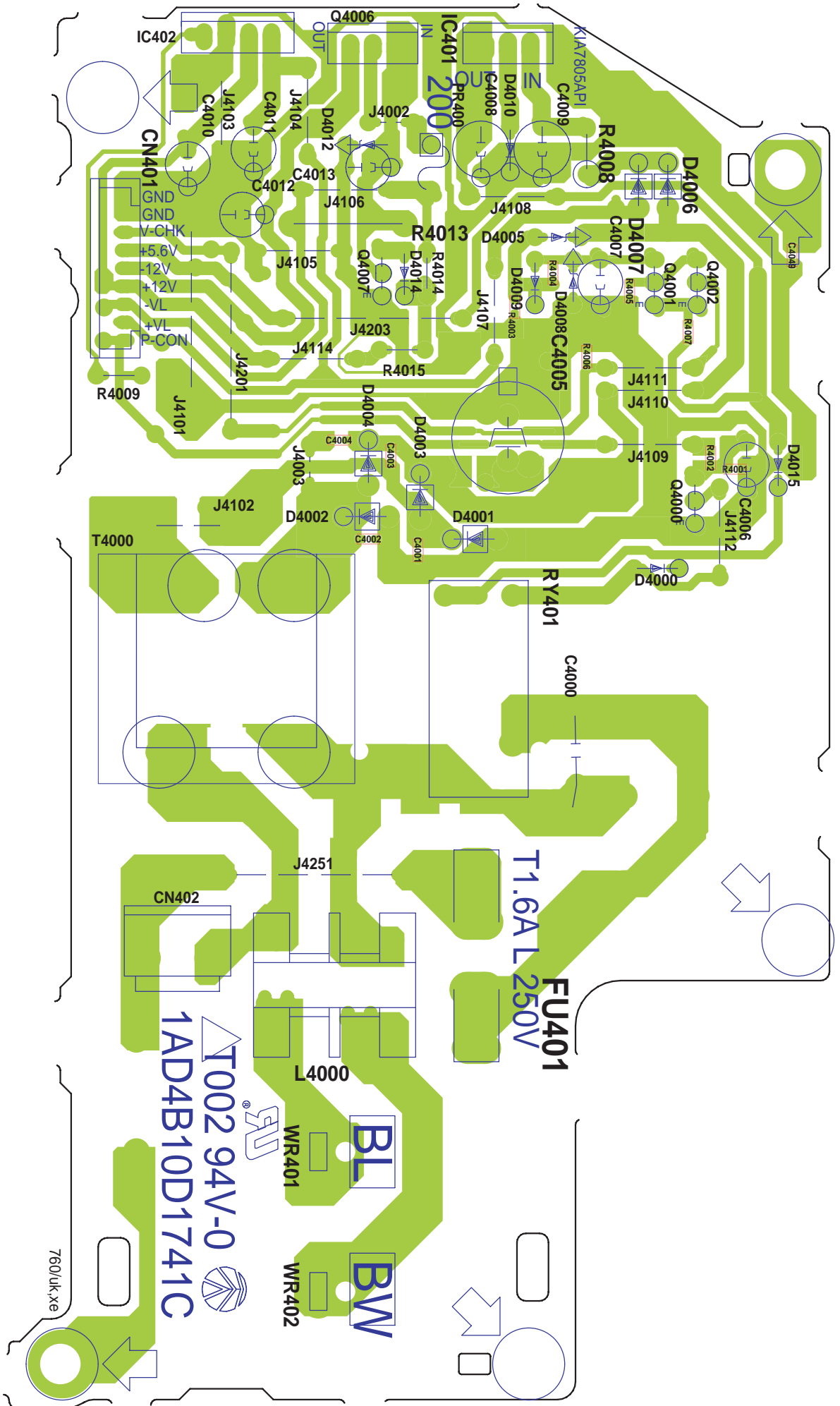
760/uk.xe

TUNER



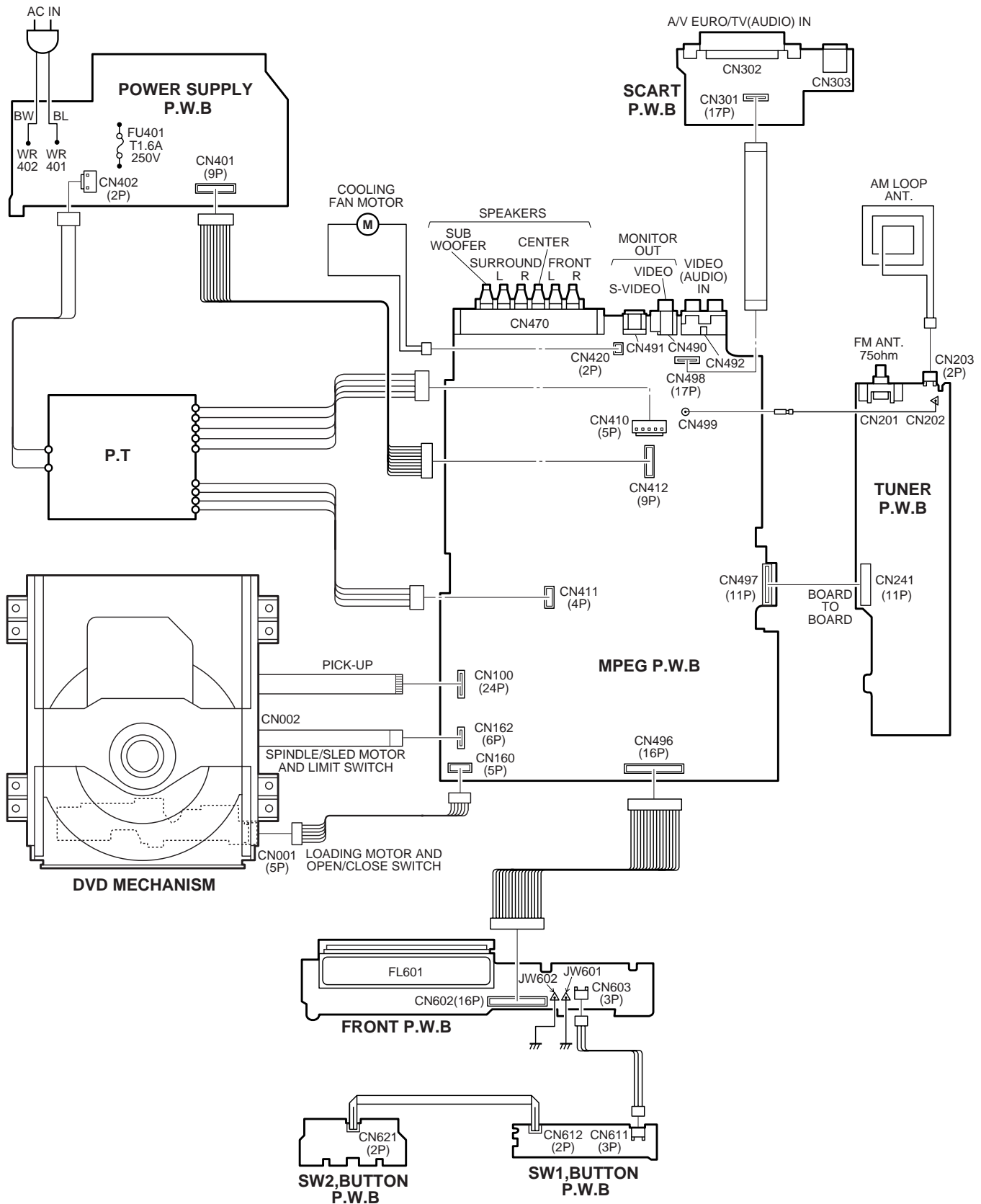
SCART

WIRING DIAGRAM (POWER SUPPLY)



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WIRING CONNECTION



This is a basic wiring connection.



SANYO Electric Co., Ltd.
OSAKA, JAPAN