



# Technical Manual

DVD PLAYER  
**RDV-985**

## Table of Contents

Specification.....	1
Information.....	2~17
Block Diagrams.....	18~22
Schematic Diagram .....	23~33
PCB Assembly.....	34~36
Parts List.....	37~47

## Specifications

### General

**Readable Discs:** DVD VIDEO, Audio CD, VIDE CD, SUPER VIDEO CD

**Video Format:** PAL or NTSC selectable

### Video Output

**VIDEO OUT (pin jack):** 1.0 Vp-p (75 ohms)

**S-VIDEO OUT (S jack):**

Y Output: 1.0 Vp-p (75 ohms)  
C Output: 286 mVp-p (75 ohms)

**Horizontal Resolution:** 500 Lines

**Signal to Noise Ratio:** 65 dB

### Audio Output

**ANALOG OUT (pin jack):** 2.0 Vrms (10 kohms)

**DIGITAL OUT (optical):** - 21 to -15 dBm (peak)

### Audio Characteristics

#### Frequency Response:

CD: (sampling frequency 44.1 kHz): 2 Hz to 20 kHz  
DVD (sampling frequency 48 kHz): 2 Hz to 22 kHz  
DVD (sampling frequency 96 kHz): 2 Hz to 44 kHz

#### Dynamic Range:

16 bit: More than 100 dB  
20 bit: More than 108 dB  
24 bit: More than 108 dB

**Wow and Flutter:** Unmeasurable (less than ± 0.002%)

**Total Harmonics Distortion:** Less than 0.002%

### Physical

#### Power Requirements:

USA Version: AC 120V, 60 Hz  
European Version: AC 230V, 50 Hz

**Power Consumption:** 23 W (POWER ON), 2 W (STANBY mode)

**Weight:** 4.7 kg (10.4 lbs)

**Dimensions (W x H x D):** 445 x 112 x 338 mm  
17<sup>1</sup>/<sub>2</sub> x 4<sup>7</sup>/<sub>16</sub> x 13<sup>5</sup>/<sub>16</sub> inch

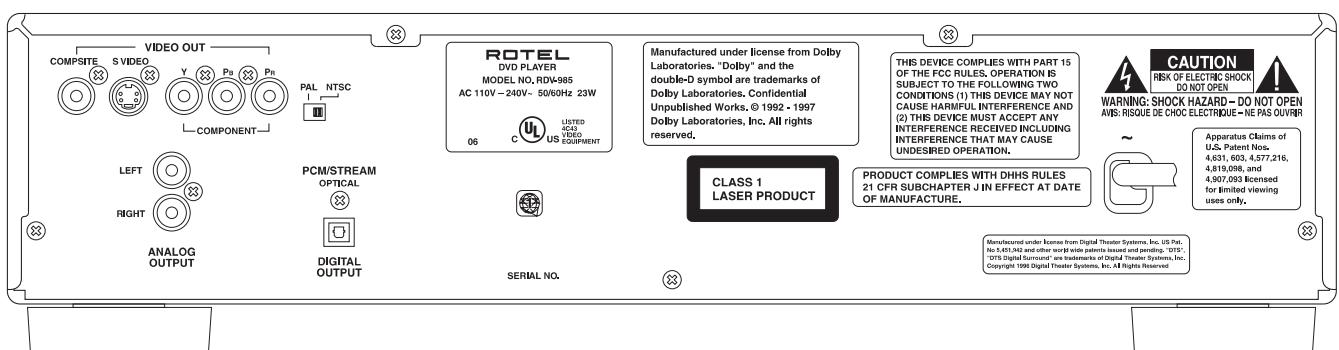
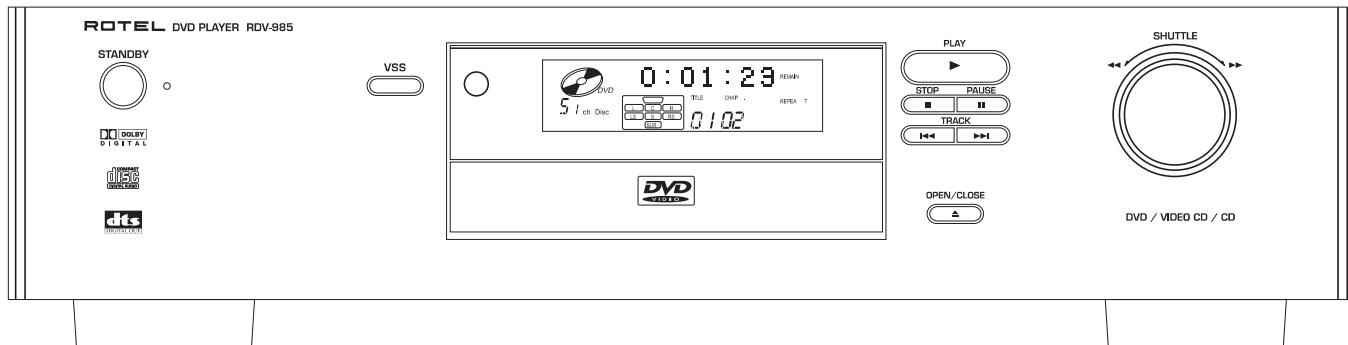
**THE ROTEL CO., LTD.**

SHINSEN-BLD. 4F 10-10 SHINSEN-CHO, SHIBUYA-KU,  
TOKYO 150-0045, JAPAN

Serial. NO.  
Beginning

Y-356B-0109/W

# Appearance



## Main Adjustment

Adjustment and confirmation matter

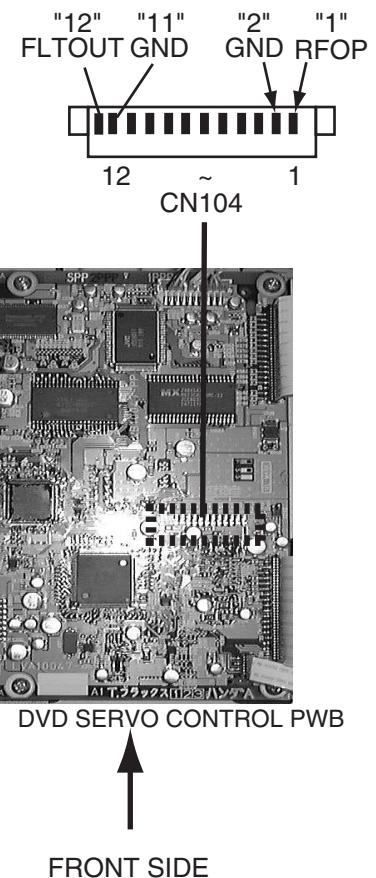
### (1) Auto adjustment method

If microprocessor (IC401, IC402, IC714, IC716) or servo board (LEA10047) is replaced, initialize the DVD player in the following matter:

ref. separate sheet.

### (2) Confirmation of DVD RF level

- 1.The oscilloscope is connected between "1"(RFOP) of CN104 and "2"(GND).
- 2.Reproduction of the test disc ( VT-502) made by JVC.
- 3.It is confirmed that RF LEVEL is  $350\text{mVp-p}\pm150\text{mVp-p}$ .
- 4.When there is disorder in the waveform road cuts etc, test disk is exchanged and measured.



### (3) Confirmation of CD jitter level and RF level

1. The CD jitter meter is connected between "11"(GND) of CN104 and "12"(FLTOUT).  
The RF level is observed at the same time.
- 2.The first test disk(CTS-1000) made of JVC is reproduced.
- 3.It is confirmed that RF LEVEL is  $360+100\text{mVp-p}$ .
5. When there is disorder in the waveform road cuts etc, test disk is exchanged and measured.

#### (4)Flap adjustment of the Pick-up guide shaft

##### Attention !!

RDV-985 is adjusted from issue machine because of the FL display on the way.

Please go in the adjustment method before changes according to the following procedures.

Measurement	Adjustment point	Mode	Disc
CN104 pin "1" GND:CN104 pin "2"	Refer to Fig.2	Reproduction part	VT-502
Measurement machine	connections		Extension cord No.
Oscilloscope	Refer to Fig.1		QUQ110-3740AM
General tool : Hex-head wrench(2mm)			

"Flap adjustment" of the Pick-up guide shaft adjusts  
 "Tangential adjustment machine screw" A and  
 "Tilt adjustment machine screw" B from the  
 DVD Mechanism A'ssy bottom.

1. The part at the center on the DVD test disc is reproduced.
2. The flap adjustment screws is turned alternately and adjusted like clearly seeing the waveform of CN104"1" to the way.

##### Note

- 1.The tangential adjustment is done finish and, then, tilt is adjusted.
- 2.The repeat the adjustment 2-3 times,for best result.
- 3.The final adjustment should be tilt adjustment.

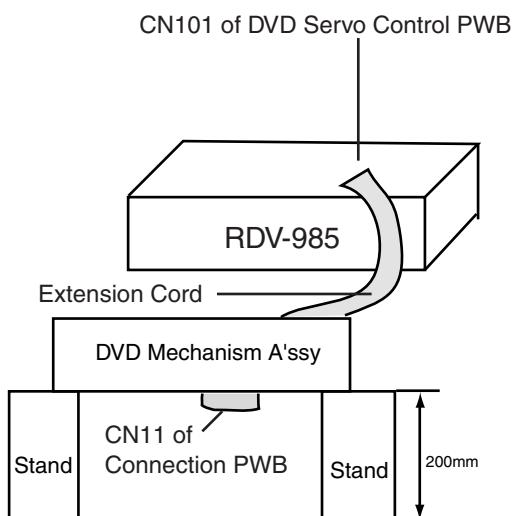


Fig.1

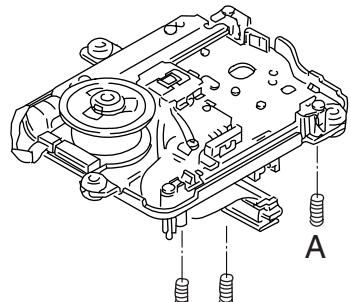


Fig.2

### **Confirmation after adjustment.**

Confirm to reproduce video CD and CD after the DVD test disc is adjusted and to find abnormality.

### **(5) About keeping the disc**

As for the DVD test disc, plane accuracy is demanded. Please note the keeping place on the disc.

1. Please do not put the disc directly on the work desk etc. after uses .
2. To keep the planarity of the disc, politely handle ,and please put in a special case and keep the disc vertically after uses .  
Please keep keeping the disc in a cool place where direct sunshine and the air-conditioning wind do not drive.
3. When the disc curves, an accurate adjustment cannot be done.  
Please exchange for a new test disc and adjust optics.
4. Other discs might not be able to be reproduced when adjusting on a curved disc.

#### **Point of adjustment**

- \* Please execute the static electricity protection measures before starting the adjustment.
- \* When the following parts are exchanged,optical adjustment "Adjust the flap of the disc motor" is necessary.

1. The disc motor was exchanged.
2. The laser pick up was exchanged.
3. The traverse motor unit was exchanged.

#### **Note**

Additionally, please adjust the flap of the disc motor when the picture quality deterioration is seen .The basic adjustment though, is unnecessary for part exchange in the traverse.

An optical adjustment in the laser pick up cannot be done.

Please adjust the flap of the disc motor after exchanging the laser pick up.

\* When the traverse unit is exchanged, the adjustment is basically unnecessary.

## Check points for each error

### (1) Spindle start error

\*Defective spindle motor

Are there 10ohms resistance between each pin of CN101 "29~31"?

(The power supply is turned off and measured.)

\*Hall element: Is sine wave output between CN101 "23" and "24", between "25" and "26", and between "27" and "28" during rotation?

In either case, replace the mechanical unit.

\*Defective spindle driver (IC251)

Is a driving wave output from CN101 "29~31" ?



Is IC251 "9" at "H" level (START)?

Servo IC --- Is control signal sent to the motor driver ?

IC201 "95" : Duty is 50% during stop, but varies during rotation (greatly varies at start).

--- If not sent, pattern or servo IC (IC201) is defective.

R259 : approx 2.5V during stop, but varies during rotation (greatly varies at start).

--- of not sent, pattern or servo IC (IC201) is defective.

Is FG input to servo IC ?

Observe FG wave from IC201 "89". --- If not output, pattern, IC251 or IC201 is defective.

### (2) Disc Detection, Distinction error (no disc, no REFNV)

\* Laser is defective.

\* Front End Processor is defective (IC101).

\* APC circuit is defective. --- Q101.

\* Pattern is defective. --- Lines for CN101 "15" and "17".

Lines for between IC201 "2" and IC101 "2"(LDONA),  
between IC201 "3" and IC101 "1" (LDONB).

\* Servo IC is defective (IC201).

\* Is signal sent to IC201(servo)"71" AS2 ?

\* IC101 --- For signal from IC101 to IC301, is signal output from IC101 "88" (RFAS1) and  
IC101 "69" REENV ?

### (3) Traverse movement NG

- \* For automatic adjustment, traverse movement occurs only when the position is changed to retry judging the disc type after the 1st judgment resulted in an error. Therefore, traverse movement rarely occurs because, in most cases, disc judgment at the current position (1st time judgment) is executed successfully. (Of course, NG rarely occurs in this step.)

Note: 1st time judgment of disc type resulted in NG. --- The re-judgment of disc type may not be successful. Therefore, after removing the cause of traverse movement, re-execute automatic adjustment and confirm that no problem exists.

- \* Check point

a) During stop

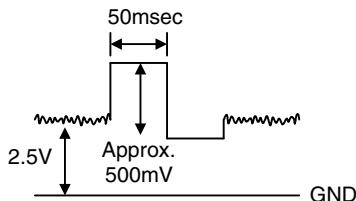
Whether 50% duty pulse is output to R273

Whether between R274 and C271 is at approx. 2.5VDC

Offset voltage between CN101 "34" and "35" (scores mV if exists)

b) When tray is opened or closed

Check by oscilloscope whether a rectangular wave signal is output from CN101 "34" or "35".



If checking a) or b) resulted in NG, IC201 maybe defective.

### (4) Focus ON NG

- \* Is FE output? --- Pattern, IC101
  - \* Is FCDRV signal sent? (R286) --- Pattern, IC301
  - \* Is driving voltage sent?
- CN101 "20", "21" --- If NG, pattern, driver, mechanical unit (with the power turned off, measure the resistance between CN101 "20" and "21").
- \* Does CN101 "7"(SRF1) become "H" and is the focus drawing in done?
    - Mechanical unit (laser power too low), IC101(defective gain)
    - Moreover, It is thought that abnormality is found in the disk.
  - \* Mechanical unit is defective.

### (5) Tracking ON NG

- \* When the tracking loop cannot be drawn in, IC201 "39" (/TRON) does not become "L".
- \* Mechanical unit is defective.

Because the under mentioned adjustment value is abnormal, it is not possible to draw in normally.

\* Periphery of driver (IC271)

Constant or IC it self is defective.

(When passing without becoming abnormal while adjusting the following.)

\* Servo IC (IC201)

When improper adjustment due to defective IC.

[F focus position rough adjustment]

[Phase diff erence cancellation rough adjustment]

[T racking balance adjustment]

#### (6) Spindle CLV NG

- \* When the spindle cannot be shifted to CLV Servo, does not become "H" between IC301 "69" and IC201 "37".
- \* IC201 Is signal output from CN103 "1" (RFOP)?
- \* IC201 Is signal output from CN103 "11" (DSLIP)?
- \* IC201 Is signal output from CN103 "6" to "9" (binary-coded clock and data)?
- \* IC201 Is "39" (/TRON) at "L" level ?
- \* IC301 "74" to "76" --- Is signal output to IC201 "24", "25", "28" (In case of only CD).  
(Serial communication of rotation information)
- \* Spindle motor driver is defective.  
Even when one of the three phases is defective, item (1) may be passed.  
--- Check the second item in (1) above.
- \* C260 to C263 Defective soldering  
If noise eliminating capacitors are not properly soldered, noise may ride on the waveform.
- \* Besides, the undermentioned cause is thought though specific of the cause is difficult because various factors are thought.  
Mechanism is defective.(jitter)  
IC101, IC201.

#### (7) Address read NG

- \* Besides, the undermentioned cause is thought though specific of the cause is difficult because various factors are thought.  
Mechanism is defective. (jitter)  
IC201, IC301, IC401.
- The disc is dirty or the wound has adhered.

#### (8) Between layers jump NG (double-layer disc only)

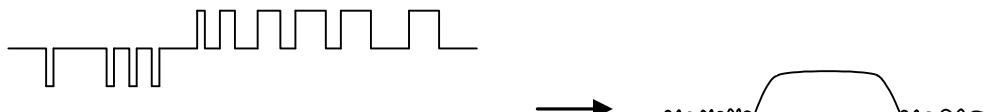
- \* When the focus flight is generated when jumps between layers.  
Because all adjustments for L1 layer must be successful, this error may rarely be due to a circuit defect.
- \* Crosstalk might occur from tracking to focus system. (See (11) ) --- Replace the mechanical unit.
- \* Driver surroundings.
- \* Defect of constant and IC.
- \* For double-layer discs, after checking CLV on layer L1, jumps to layer L0 after mode changes to FG. Then tracking is turned off, and adjustments are executed from the focus position coarse adjustment in order.
- \* When the jump between layers is done on the single-layer disk, the disk distinction error is thought.  
--- The laser power is low (RF level is confirmed by CN102 "1" (RFOP)).  
--- AS1, AS2, REFNV Is the signal sent to between IC101 and IC201 ?

(9) Neither picture nor sound is output

\* Cannot search

a) Can the feed system be driven?

Chec k the waveform of TRSDRV signal (R273). --- Waveform between R274 and C271.



Search results in a change of duty  
(three v alues with 2.5V at the center)  
(The figure is e xaggerated.)

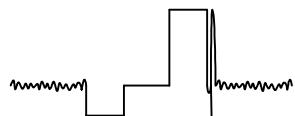
Chec k the waveform of CN101 "1" and "2". --- After the driver (IC271)



For short-distance search, the waveform becomes roundish, not trapezoidal, and voltage is low.

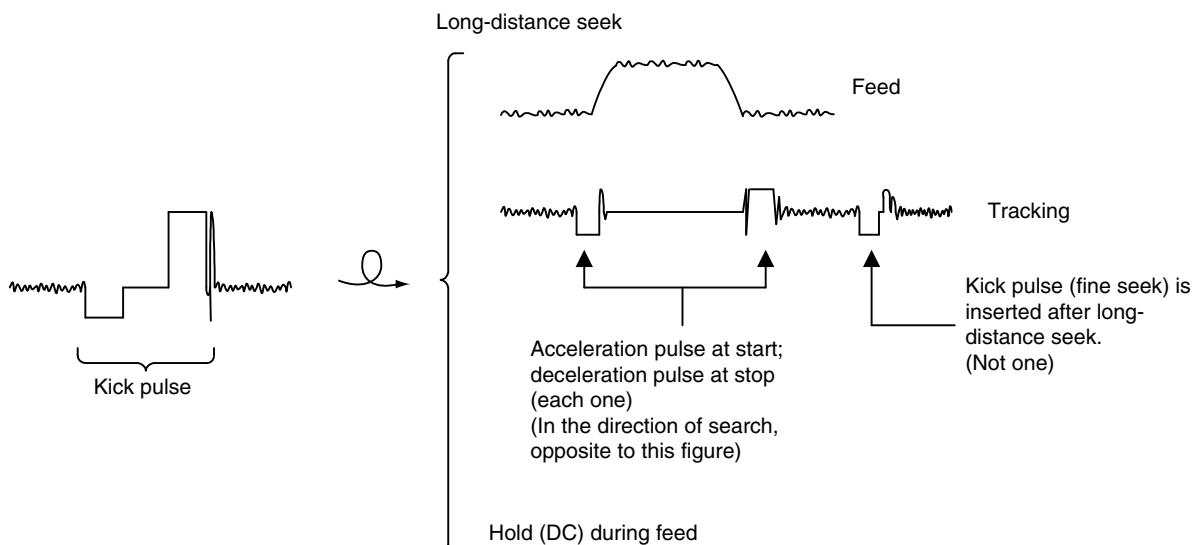
b) Is kick available?

Chec k the TRDRV signal waveform from R289.

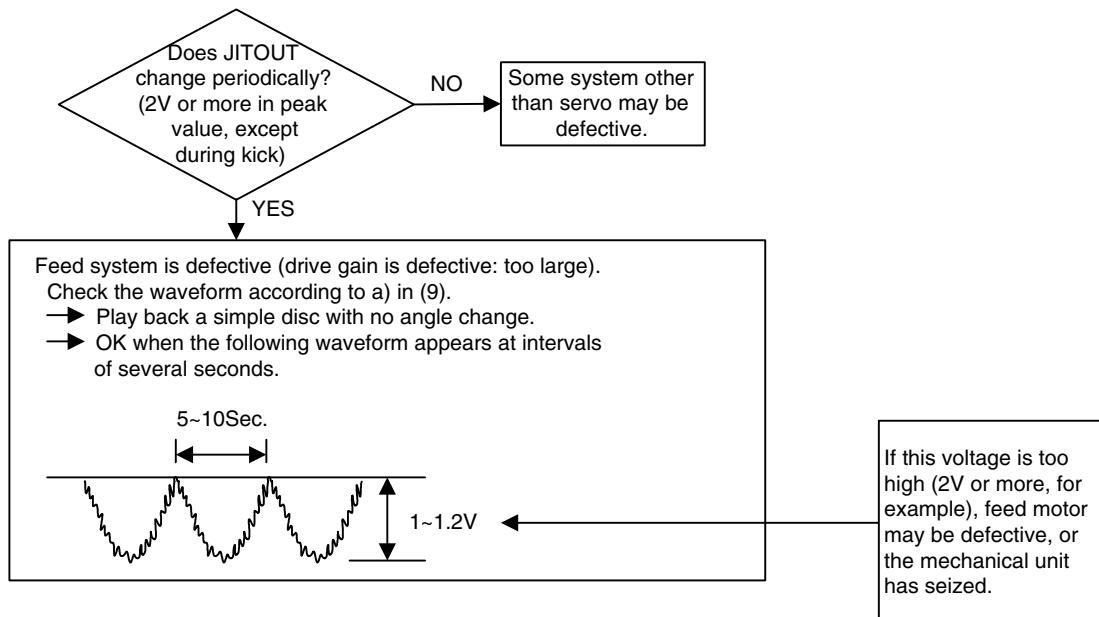


Chec k the waveform of CN101 "22" and "23" --- After the driver (IC271)

Although diff ers in amplitude and DC offset, the waveform is similar to that of R289



(10) Picture is distorted or abnormal sound occurs at intervals of several seconds.



(11) Others (unusual events experienced to date)

- \* Problem occurs with double-layer discs although no problem occurs with single-layer DVD.  
(Error occurs, or search becomes unstable and takes longer.)  
Crosstalk might occur from tracking to focus system.
- When FE was observed during search (skip, etc.), it was found that a wave resembling TE with an amplitude of 200mVp-p was riding on FE.
- Mechanical unit was replaced.
  
- \* Error frequently occurred in the outer part of discs although no error occurred in the inner part.  
--- Mechanical unit was replaced because tilt seemed to be defective.

(12) CD During normal playback operation

- a) Is TOC reading normal? → Please refer to "Servo Volume" flow.  
Displays total time for CD-DA.  
Shifts to double-speed mode for V-CD.
- ↓ YES
- b) Playback possible? → \*--- is displayed during FL serch.  
According to [\*Cannot serch ] for DVD(9), check the feed and tracking systems.  
\*No sound is output although the time is displayed.(CA-DA)  
\*DAC, etc, other than servo.  
\*The passage of time is not stable, or picture is abnormal.(V-CD)  
\*The wound of the disc and dirt are confirmed.

(13) Others

V-CD : Frequent occurrence of error in inside and outer.  
(Even the disk without the wound : when generated.)

Waveform observation

- Is the oscillation frequency of about 700~900Hz output?  
(Borrow a pertinent disk for the complaint for the combination with the disk.)
- Exchanges mechanism for the mechanism resonance.

# Precautions for Service

## Handling of Traverse Unit and Laser Pickup

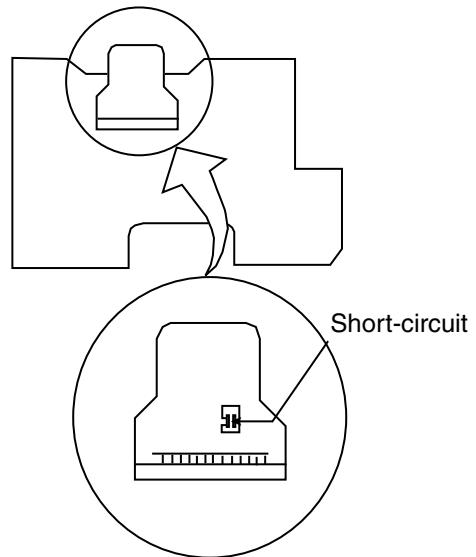
1. Do not touch any peripheral element of the pickup or the actuator.
2. The traverse unit and the pickup are precision devices and therefore must not be subjected to strong shock.
3. Do not use a tester to examine the laser diode. (The diode can easily be destroyed by the internal power supply of the tester.)
4. To replace the traverse unit, pull out the metal short pin for protection from charging.
5. When replacing the pickup, after mounting a new pickup, remove the solder on the short land which is provided at the center of the flexible wire to open the circuit.
6. Half-fixed resistors for laser power adjustment are adjusted in pairs at shipment to match the characteristics of the optical block.  
Do not change the setting of these half-fixed resistors for laser power adjustment.

## Destruction of Traverse Unit and Laser Pickup by Static Electricity

Laser diodes are easily destroyed by static electricity charged on clothing or the human body. Before repairing peripheral elements of the traverse unit or pickup, be sure to take the following electrostatic protection:

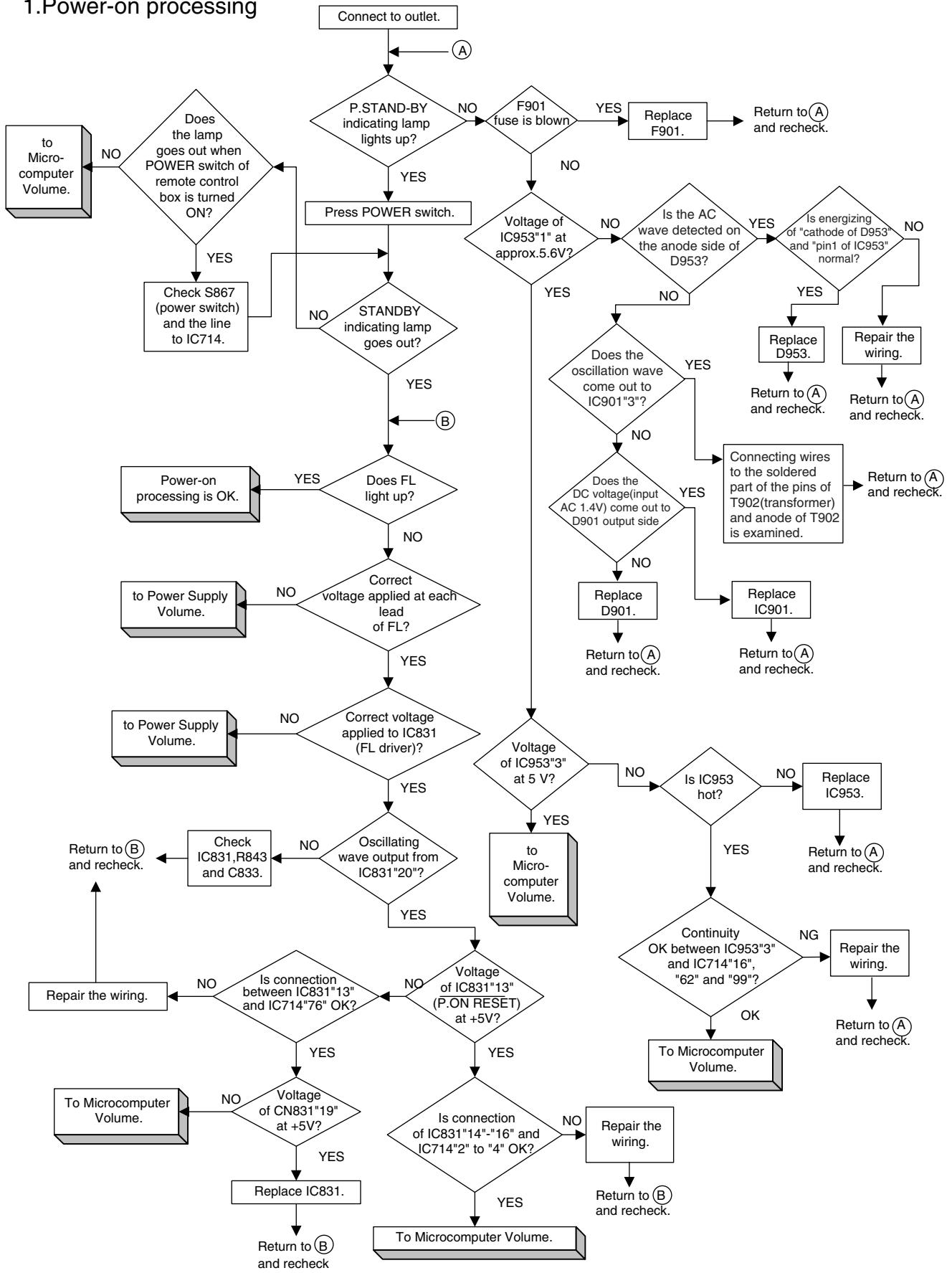
1. Wear an antistatic wrist wrap.
2. With a conductive sheet or a steel plate on the workbench on which the traverse unit or the pickup is to be repaired, ground the sheet or the plate.
3. After removing the flexible wire from the connector (CN101), short-circuit the flexible wire by the metal clip.
4. Short-circuit the laser diode by soldering the land which is provided at the center of the flexible wire for the pickup.

After completing the repair, remove the solder to open the circuit.



# Troubleshooting

## 1. Power-on processing



## 2. Power Supply Volume

With all the wiring removed, check unit power board.

- (1) Remove all flat wires and wire assemblies which are connected to CN801, CN805, CN806.
- (2) Short -circuit CN805"4" (POWER ON:B168) and "5" (B5V:B167). (Set each regulator to ON.)
- (3) The load resistance is connected between CN805"5"(B5V:B167) and "8,9"(D.GND:B164).
- (4) Connect to the outlet and check the voltage at each part.  
(For the voltage specification, see the wiring diagram.)

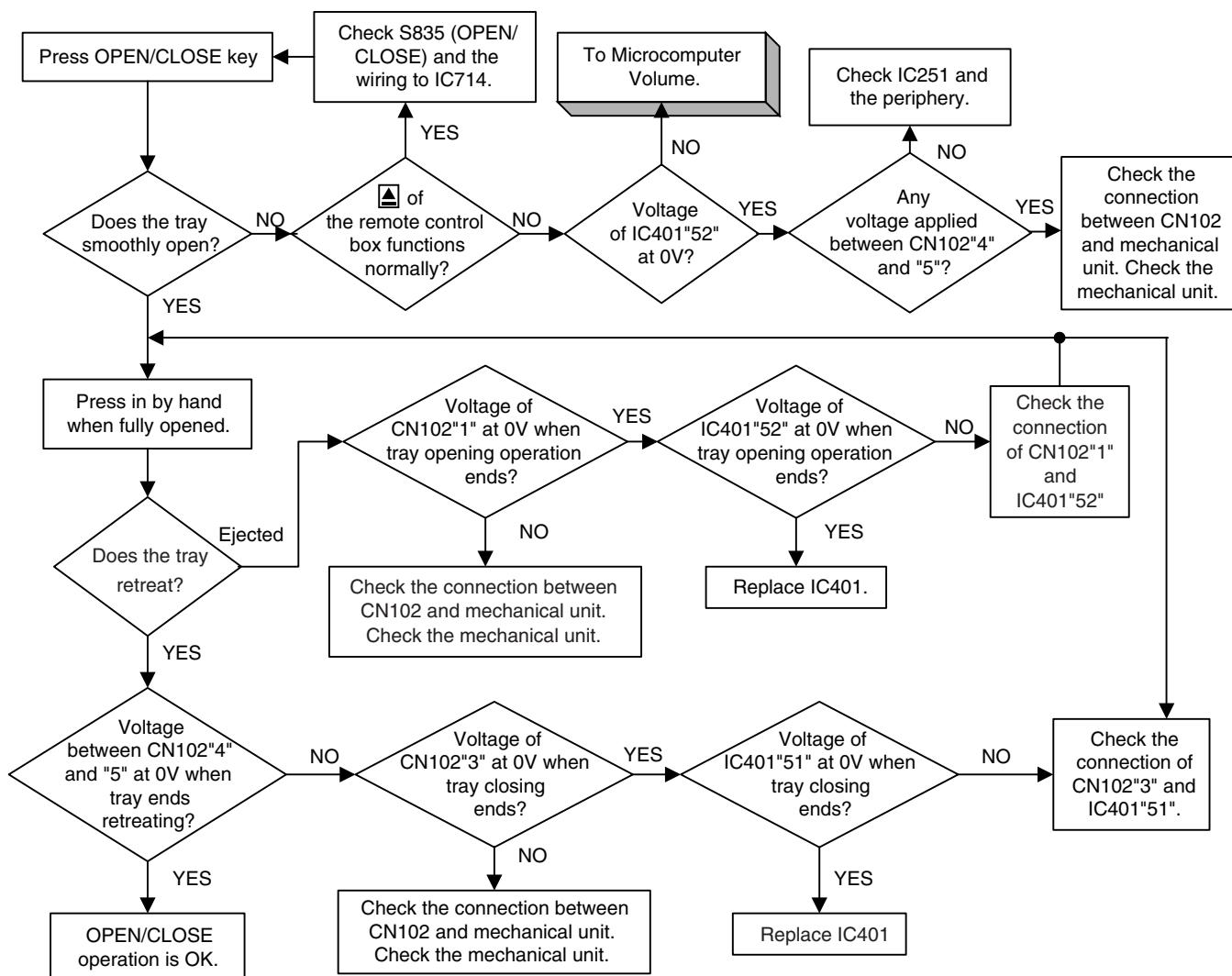
\* If the load resistance is not connected, the voltage is not output to "B167".

Then restore the connection of CN801, CN805, CN806 and check voltage.

- (1) Remove the wire short -circuiting CN805"4" and "5".
- (2) Remove the load resistance.
- (3) Restore the connection of CN801, CN805, CN806.
- (4) Connect to the outlet.
- (5) Turn the POWER switch on and check the voltage at each part.

If voltage abnormally drops when CN801, CN805, CN806 are connected (load is connected) though the voltage was at the normal level when CN801, CN805, CN806 were disconnected(load is connected), or if the protective element (fuse, etc.) is opened, the load which is supplied power may be defective or the wiring may be short-circuited.

## 3. Open/Close Operation



## 4. Microcomputer Volume

### Processing of Each Microcomputer

- \* IC714 System microcomputer (sub-microcomputer)  
After powering on, this microcomputer is continuously activated to control keys and remote control signals.  
According to key operations or remote control signals, it controls (turns on/off) the power for LSIs including IC401 (main microcomputer) and the audio/video output circuit.  
It also controls the resetting of the main microcomputer, FL driver IC (IC831) for FL display, and various LED displays.
  
- \* IC401 Main microcomputer  
This microcomputer controls a group of LSIs of servo and signal processing sections according to commands from the system microcomputer.  
After receiving time information from the signal processing section, it transmits the information together with the status to the system microcomputer.  
It controls the resetting of the LSIs of the servo and signal processing sections.  
It has IC402 (16Mbit ROM) as an external ROM.

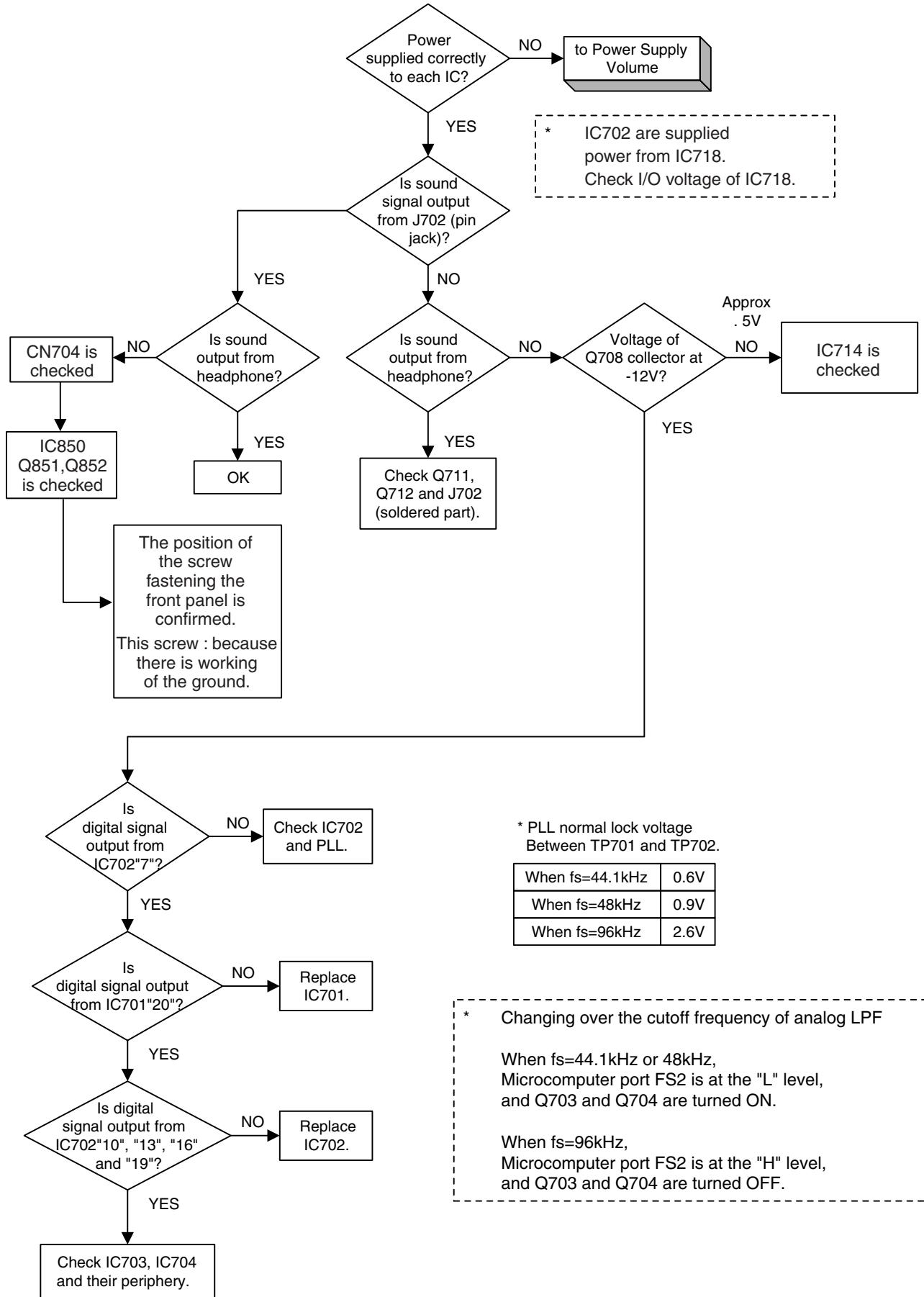
### Normal Starting Conditions

- \* IC714 System microcomputer
  - (1) +5V must be applied to "16" and "62".
  - (2) Oscillators of "13" and "15" must be oscillating correctly.
  - (3) Input to "12" (RESET) must be at +5V (reset cancel).

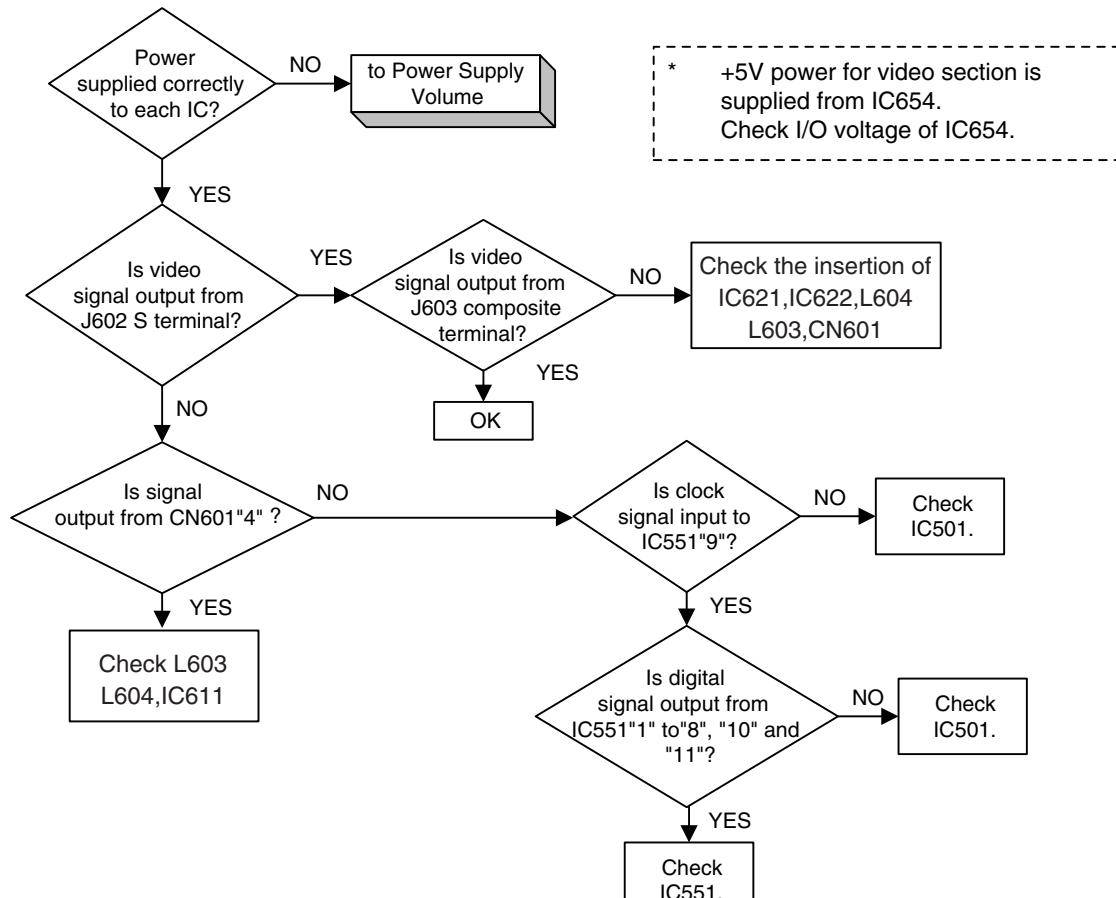
If above (1) to (3) are not satisfied when the P.STANDBY indicating lamp does not light at power-on, IC714 may be defective.
  
- \* IC401 Main microcomputer
  - (1) +5V must be applied to "17", "22", "34", "54", "66"
  - (2) Clock signal (13.5MHz) must be input to "23" from IC301 (ODC LSI).
  - (3) Input to "82" (RST) must be at +5V (reset cancel).
  - (4) Communication line with IC714 ("57", "58", "67"~"69") and that with IC402 (external ROM) ("13"~"16", "26"~"33", "35"~"42", "44", "93"~"100") must work normally.

If above (1) to (3) are not satisfied when the P.STANDBY indicating lamp goes out but FL does not light when the POWER switch is turned on, IC401, IC714 or IC402 may be defective.

## 5. Audio Volume



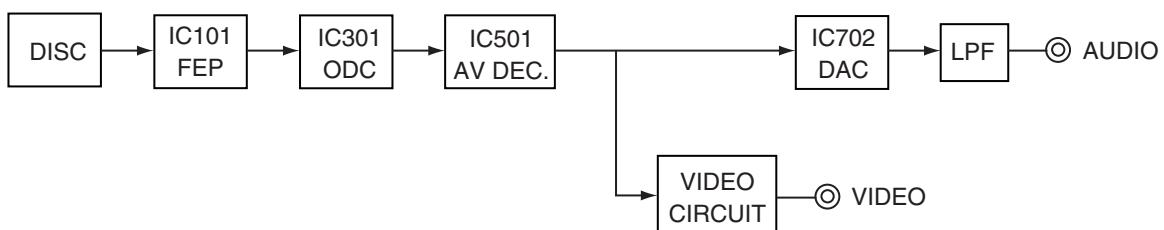
## 6. Video Volume



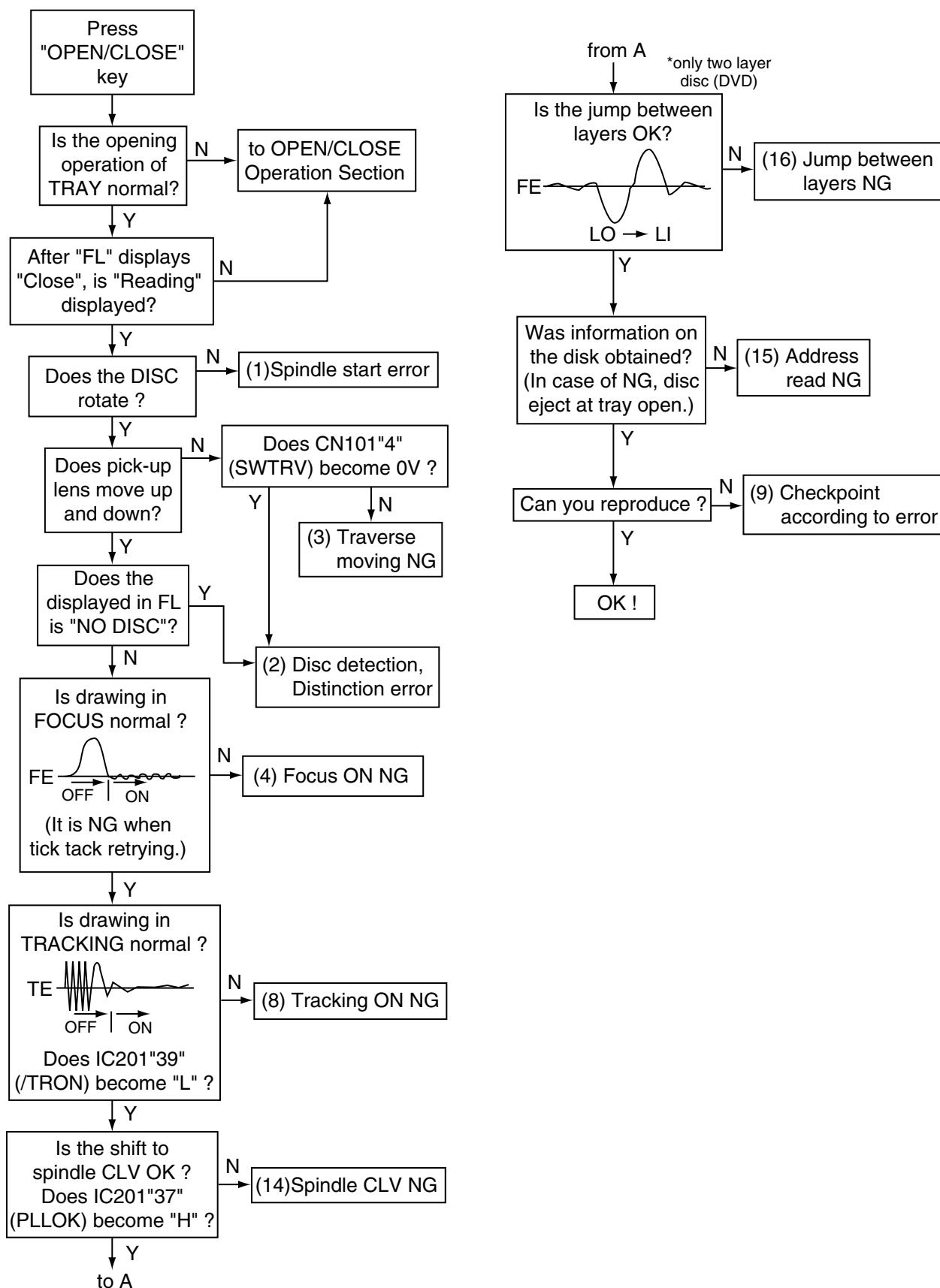
\* Service tips

- (1) The disc playback screen is in the normal condition but graphics in the "ON SCREEN" mode are abnormal => Replace IC553.
- (2) Only 1/4 compressed playback screen of DVD or video-CD is abnormal => Replace IC552.

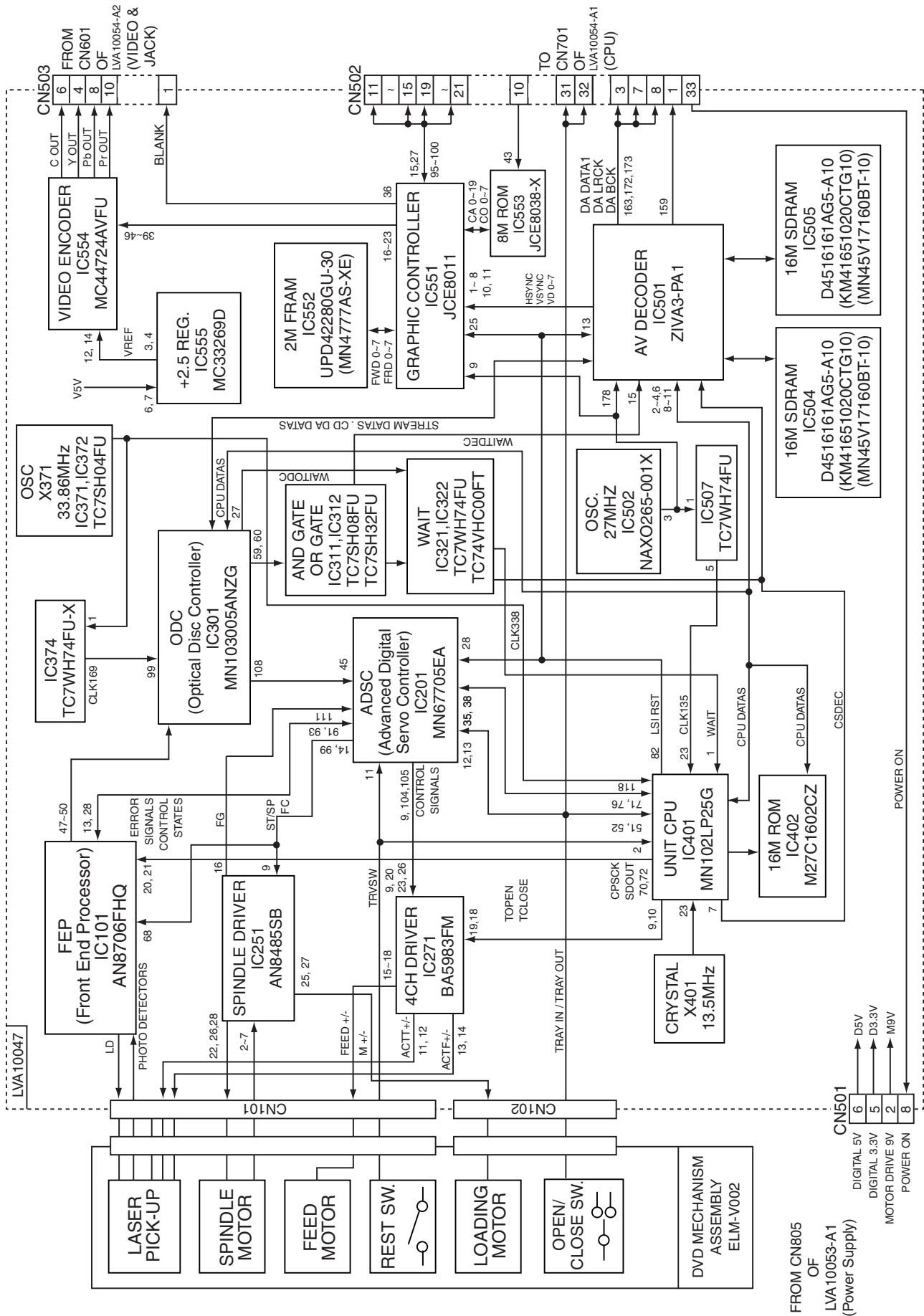
### Signal flow of DISC media



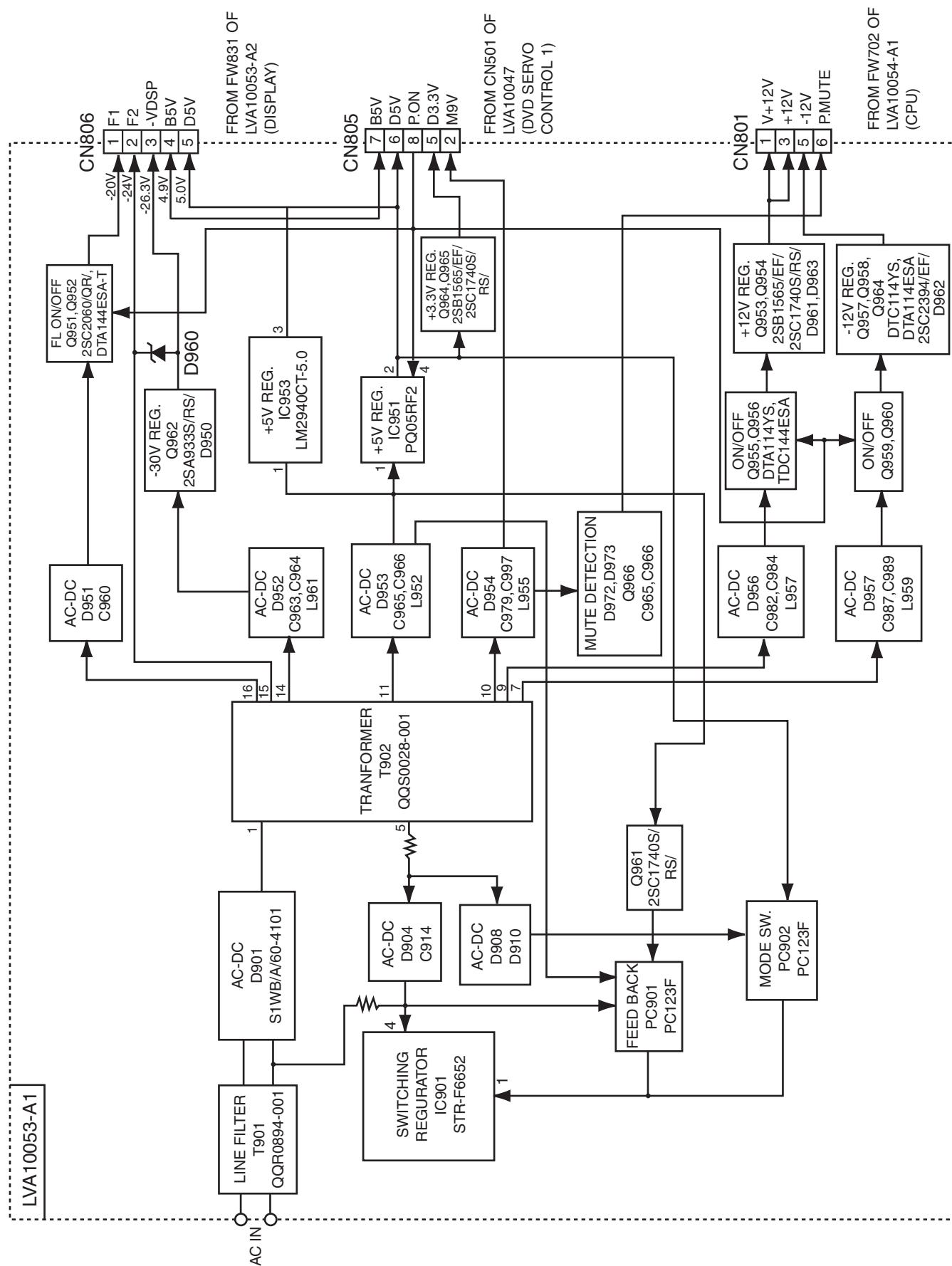
## 7.Servo volume



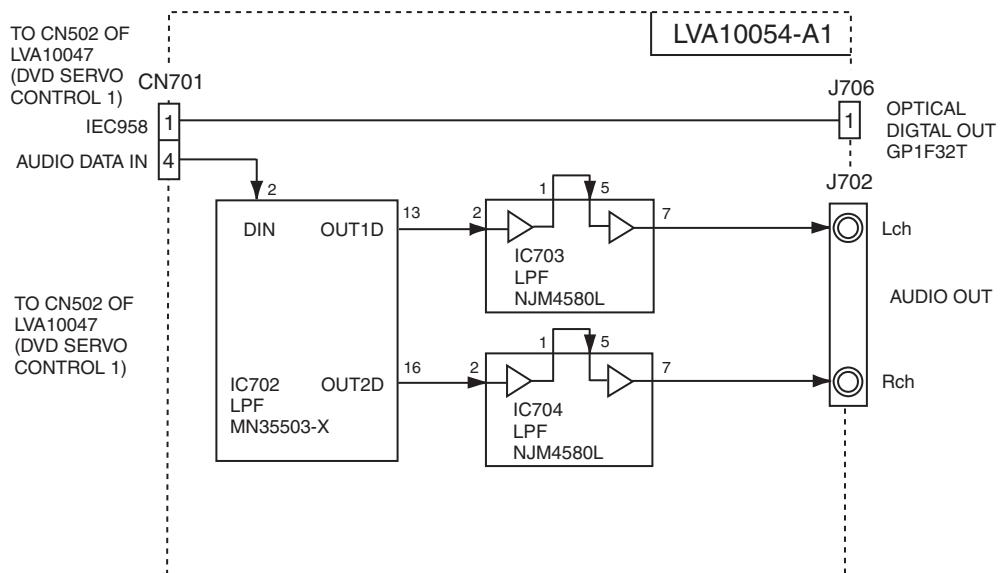
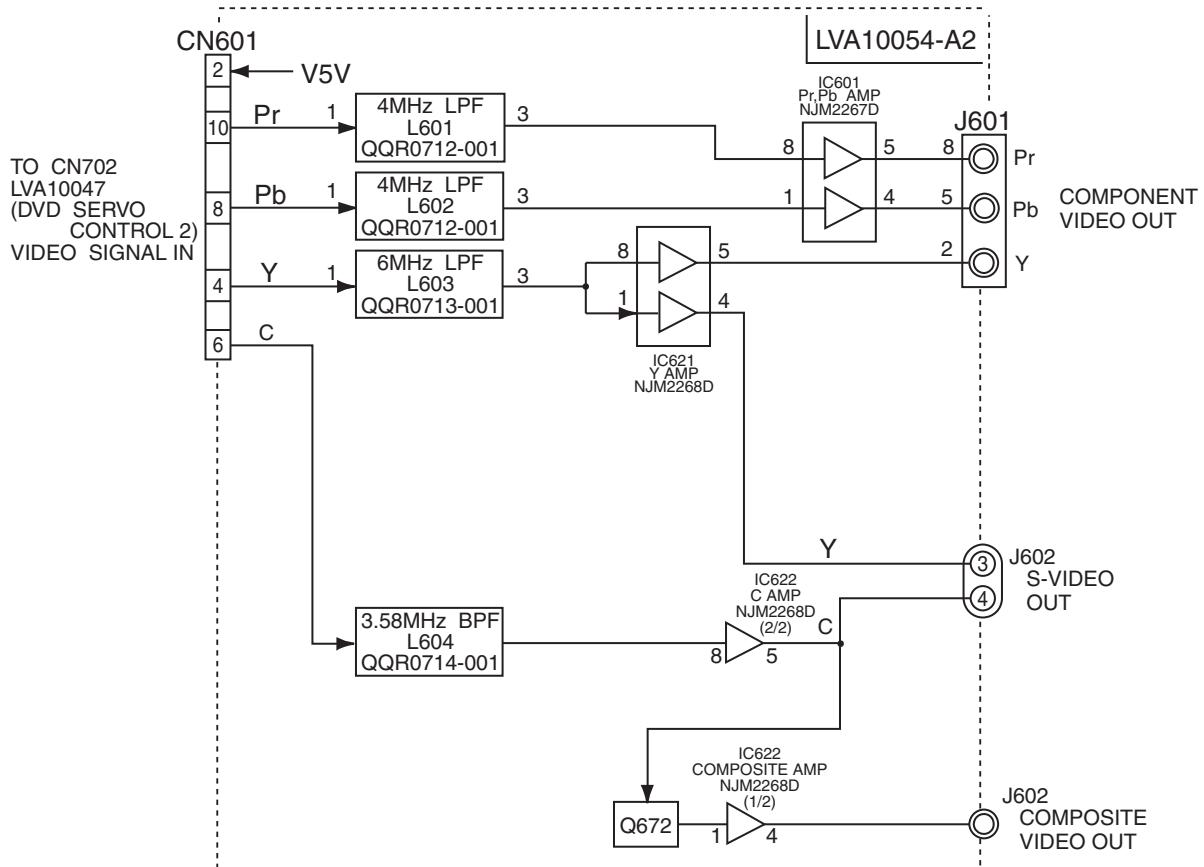
## ■ Block diagrams (DVD SERVO CONTROL Section)



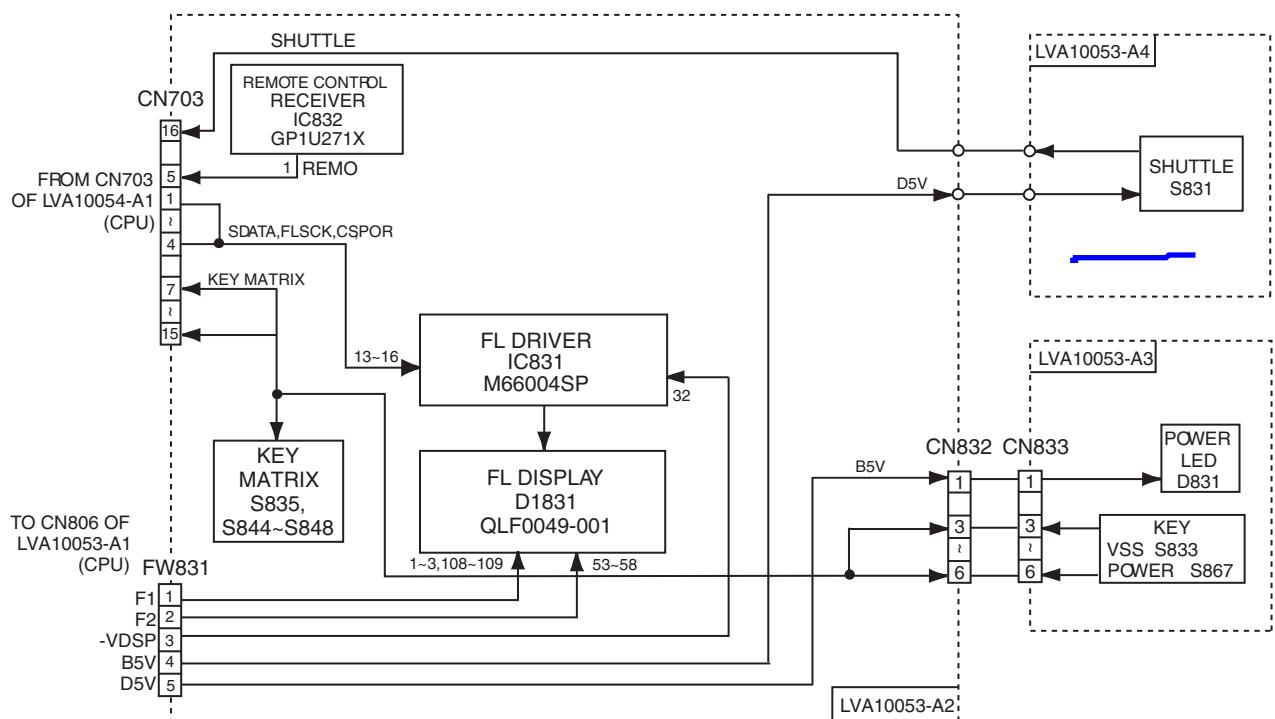
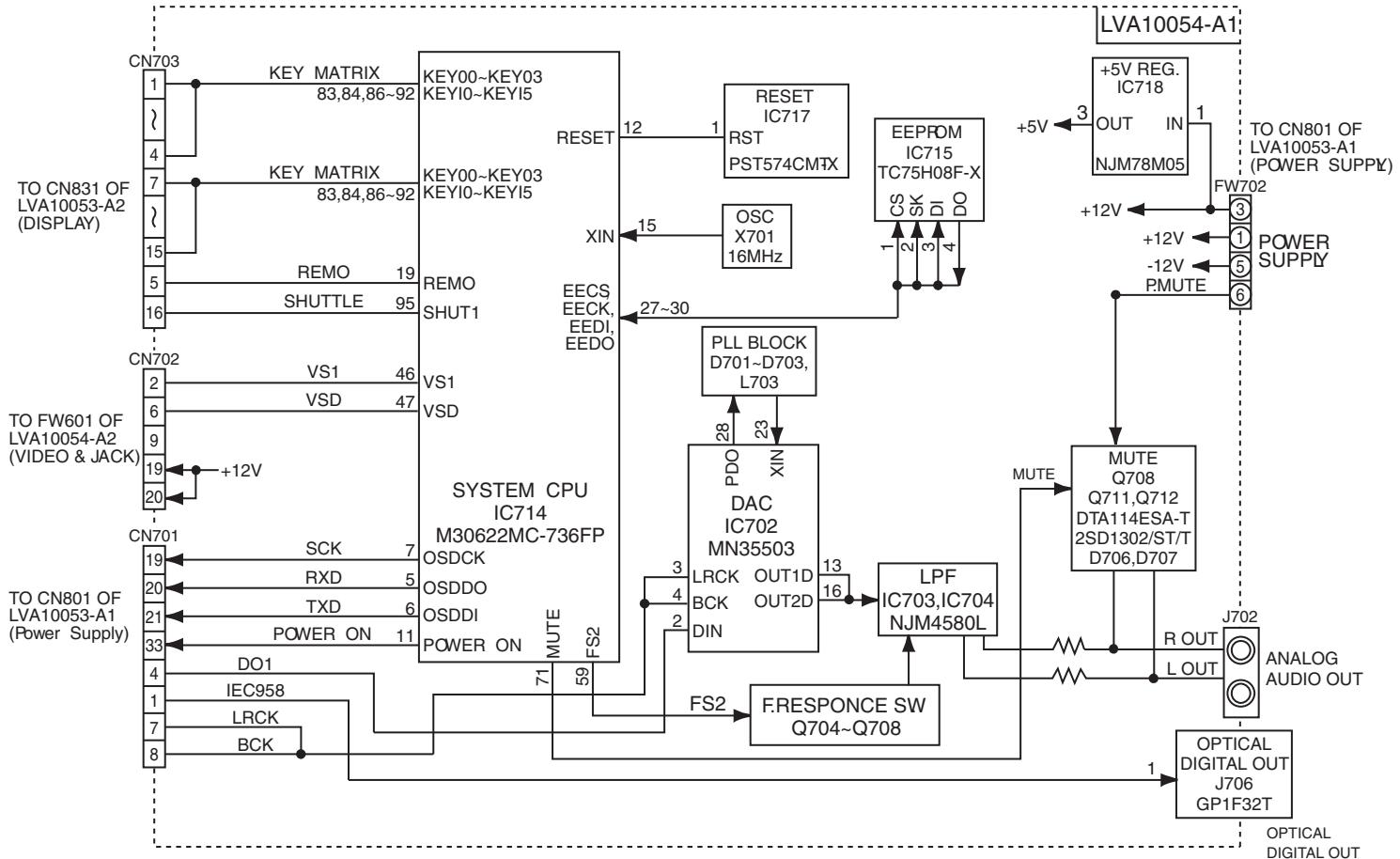
## ■ Block diagrams (DC REGULATOR Section)



## ■ Block diagrams (VIDEO OUT & AUDIO OUT)

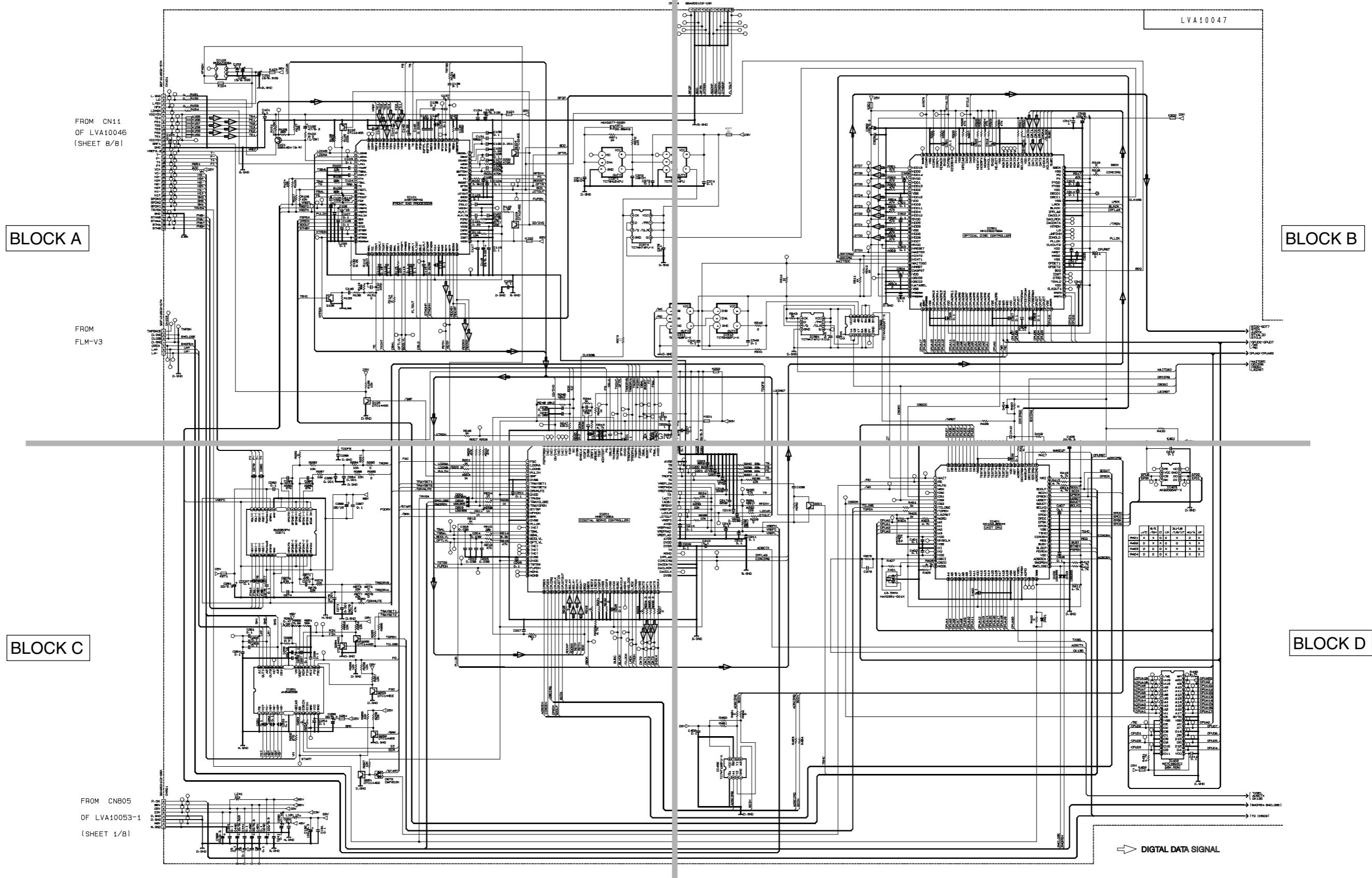


## ■ Block diagrams (SYSTEM CONTROL & FL DRIVER Section)



# Meno

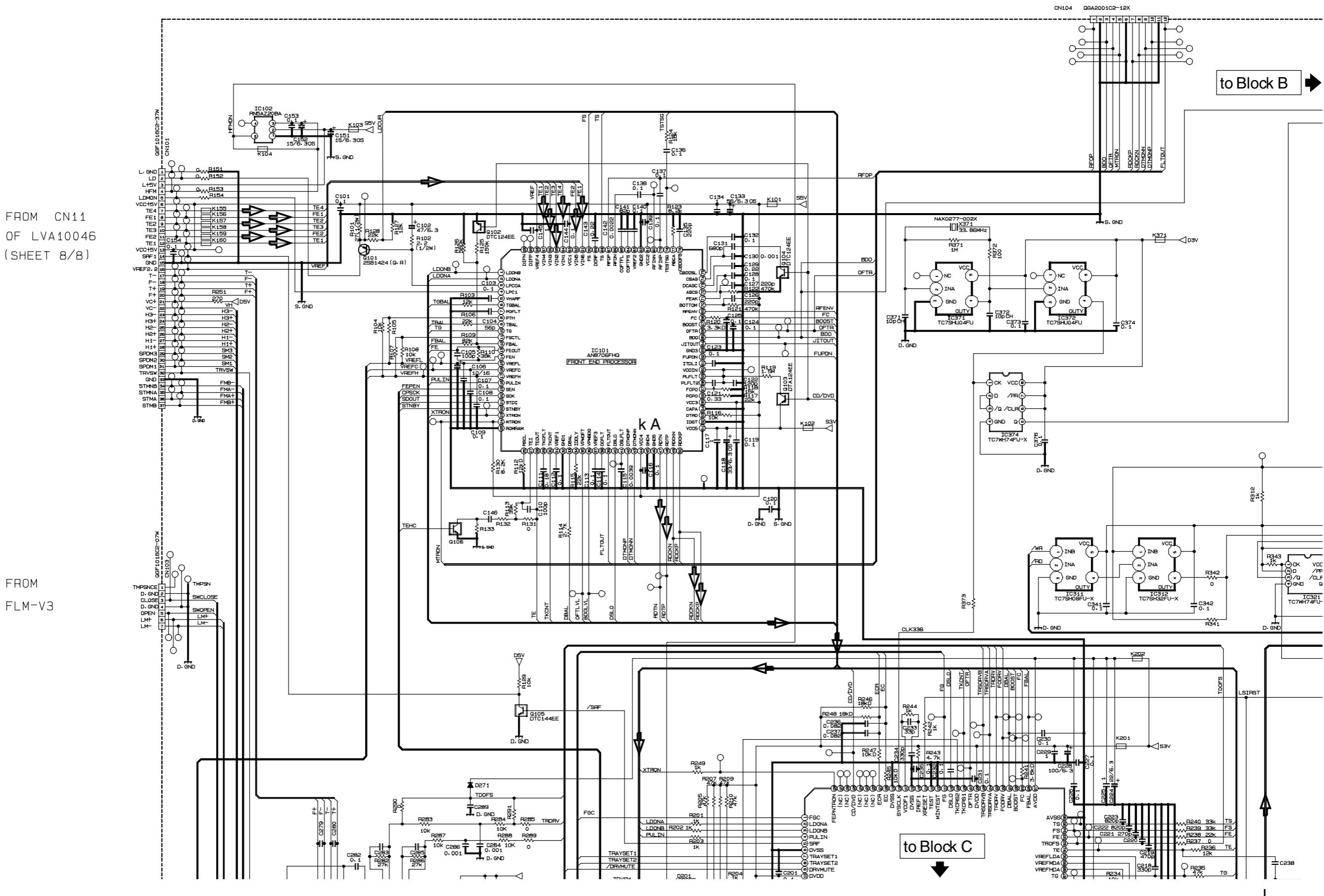
## ■ DVD Servo Control 1



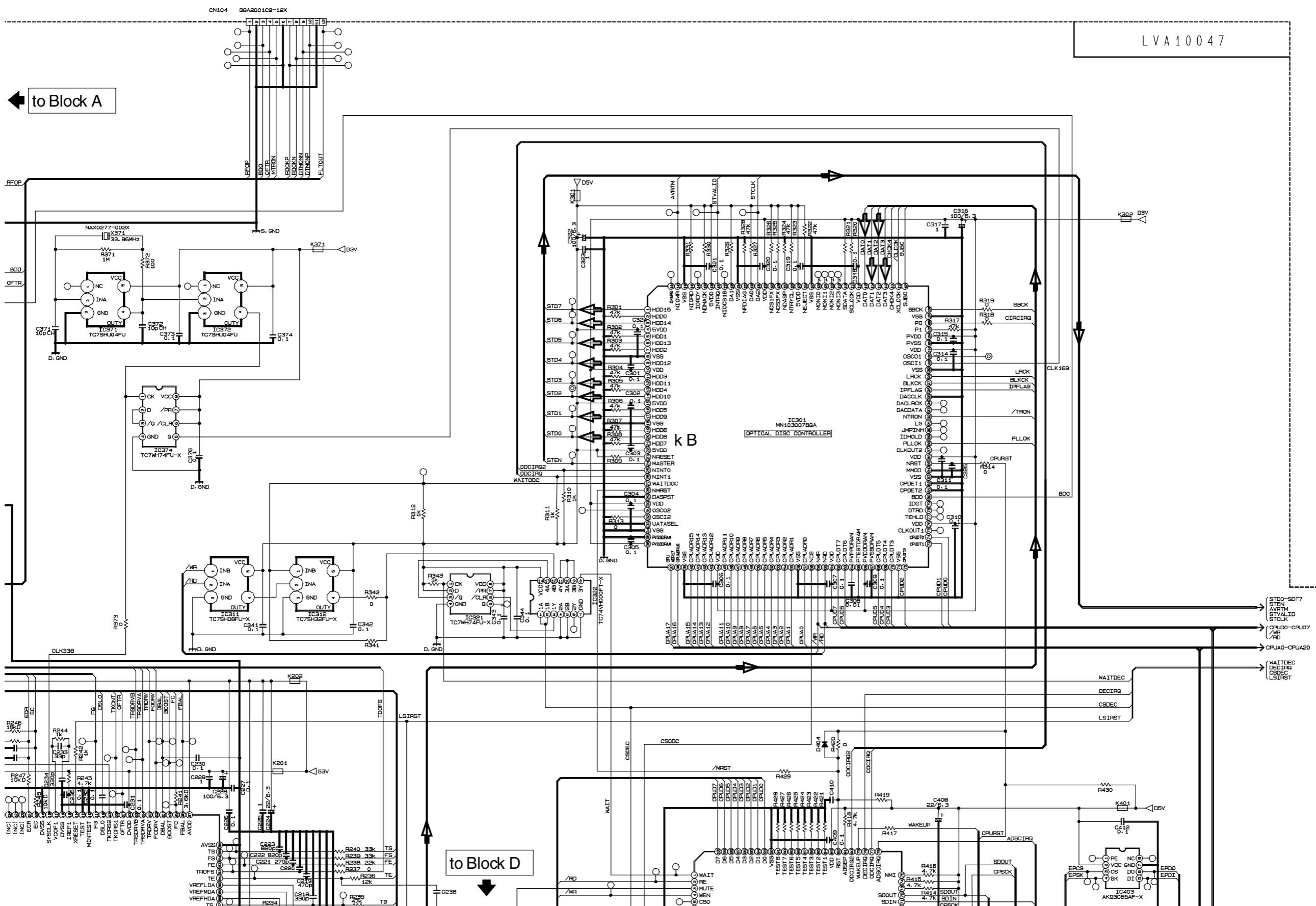
RDV-985

RDV-985

## Block A



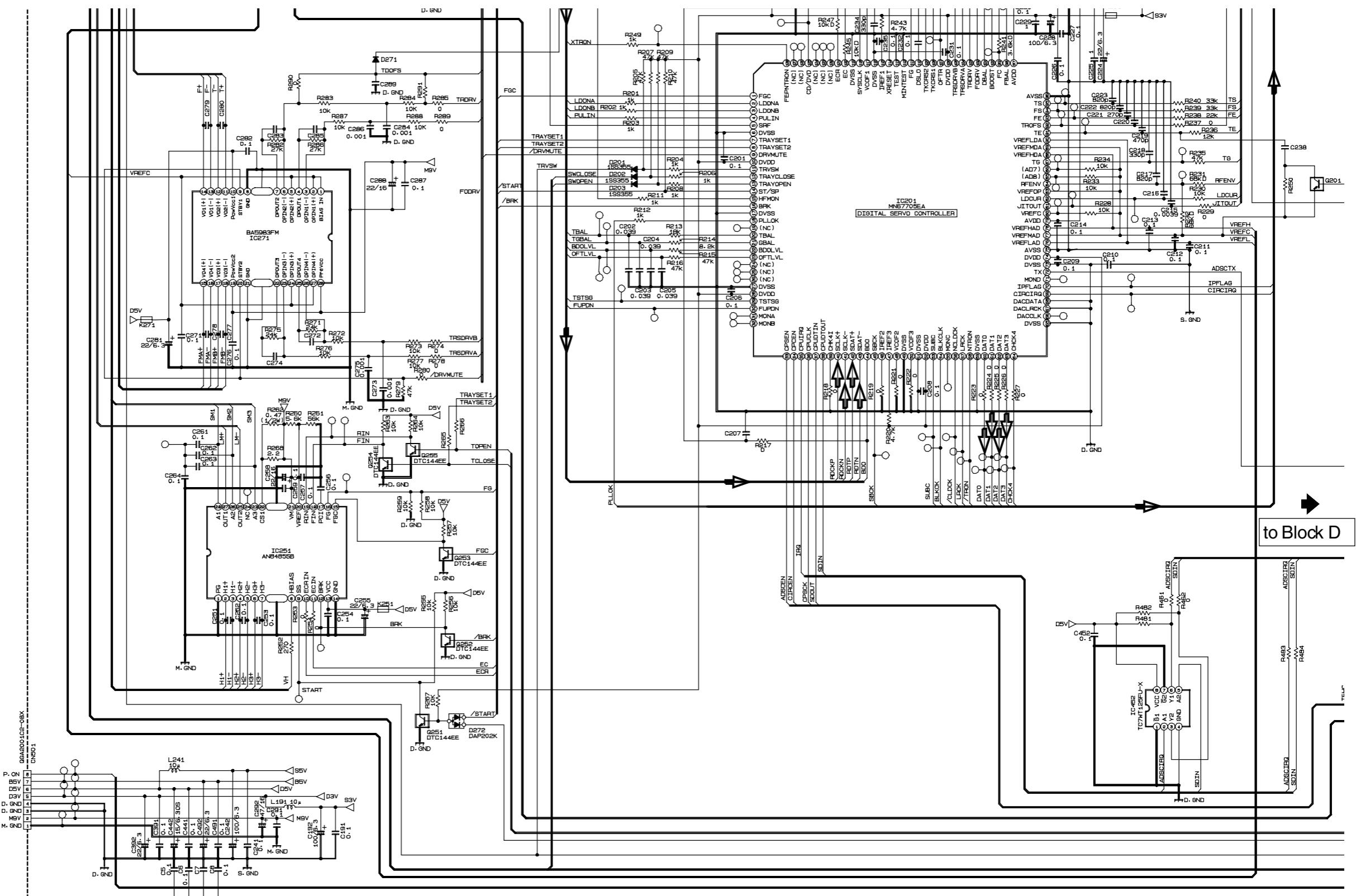
## Block B

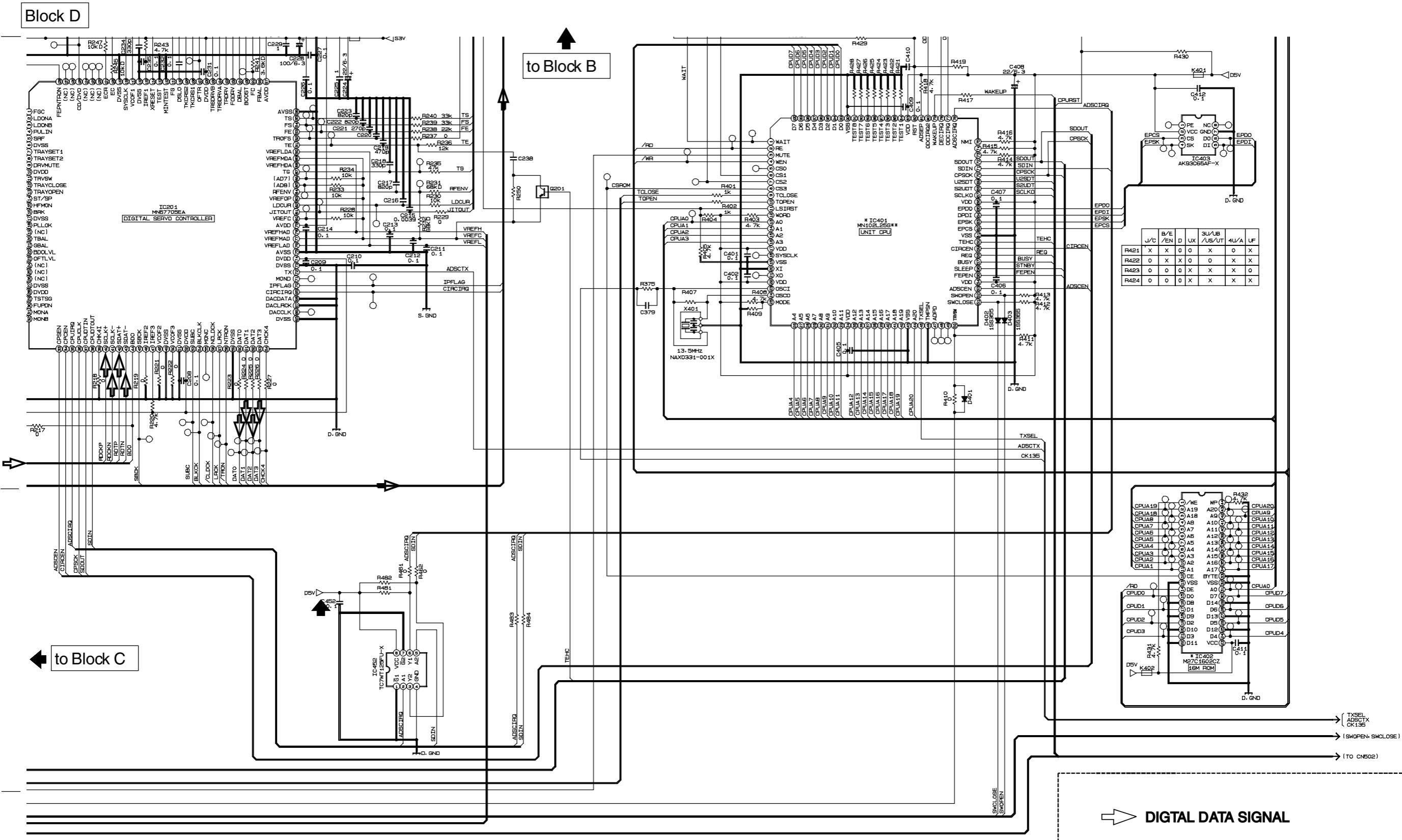


Block C

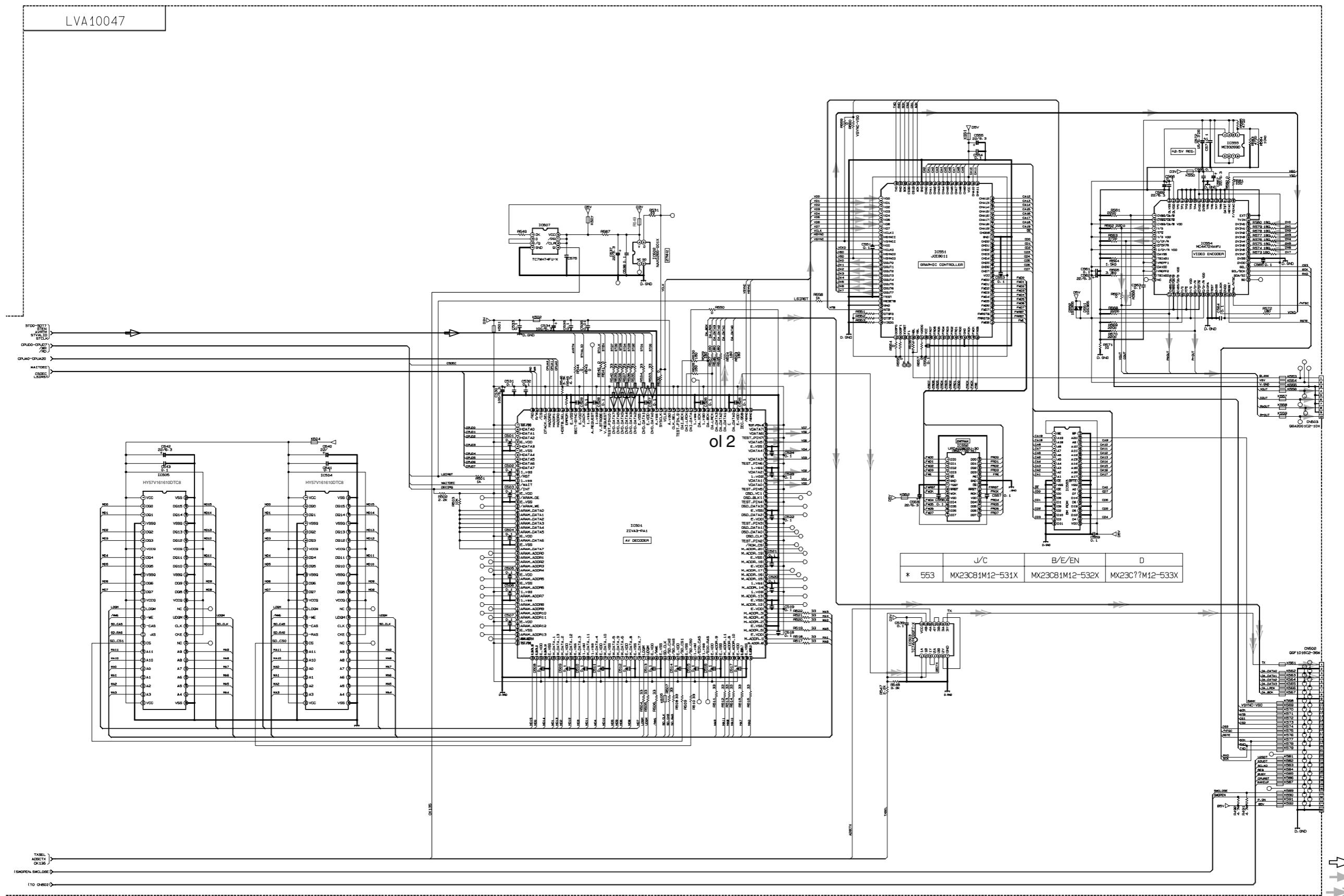
to Block A

FROM CN805  
OF LVA10053-1  
( SHEET 1/8 )

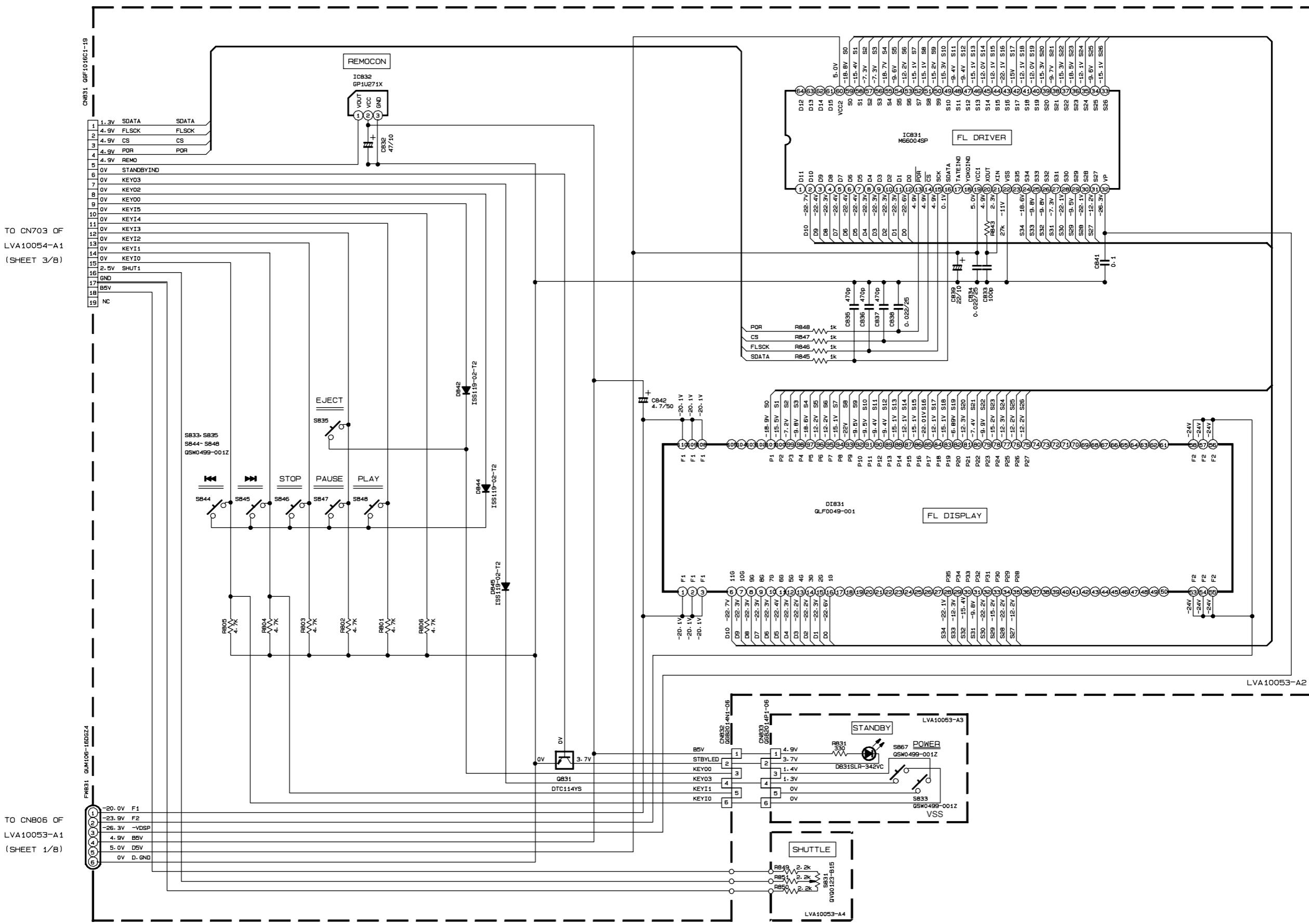




## ■ DVD Servo Control 2

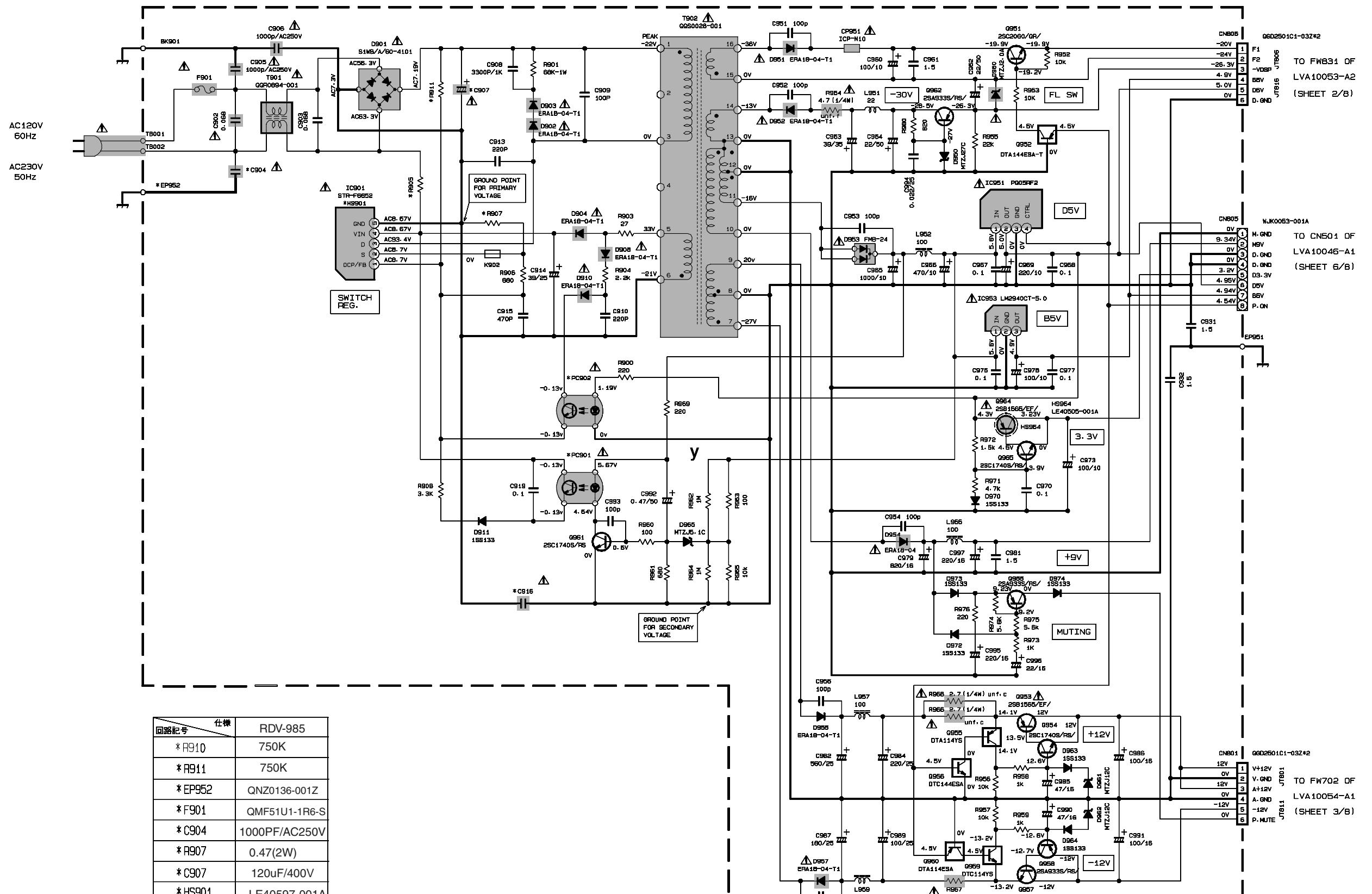


## ■ Display



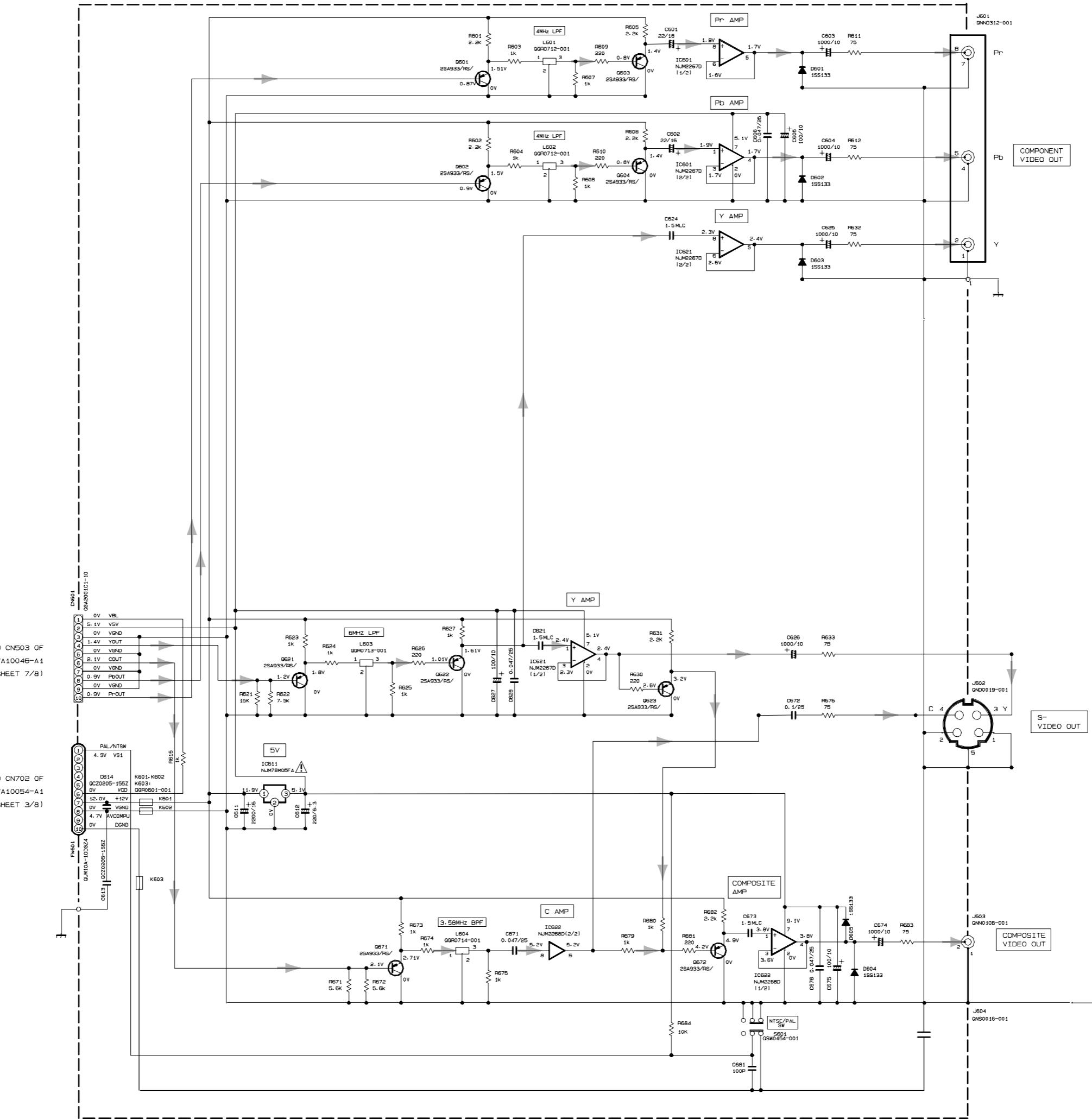
RDV-985

## ■ Power Supply



仕様	RDV-985
* R910	750K
* R911	750K
* EP952	QNZ0136-001Z
* F901	QMF51U1-1R6-S
* C904	1000PF/AC250V
* R907	0.47(2W)
* C907	120uF/400V
* HS901	LE40597-001A
* C916	4700PF/AC250V
* R905	68K(2W)
* PC901, PC902	PC123F

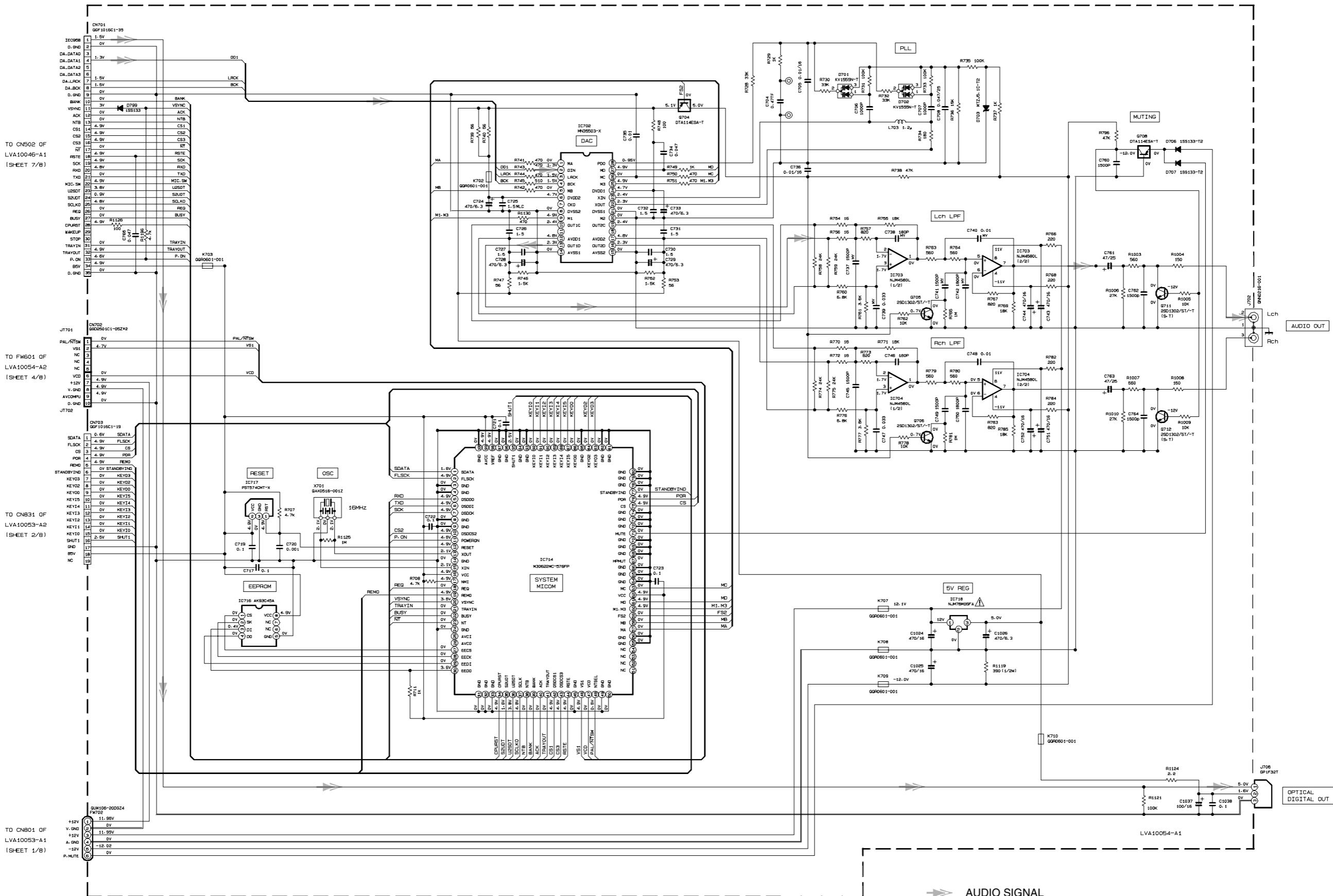
## ■ Video &amp; Jac



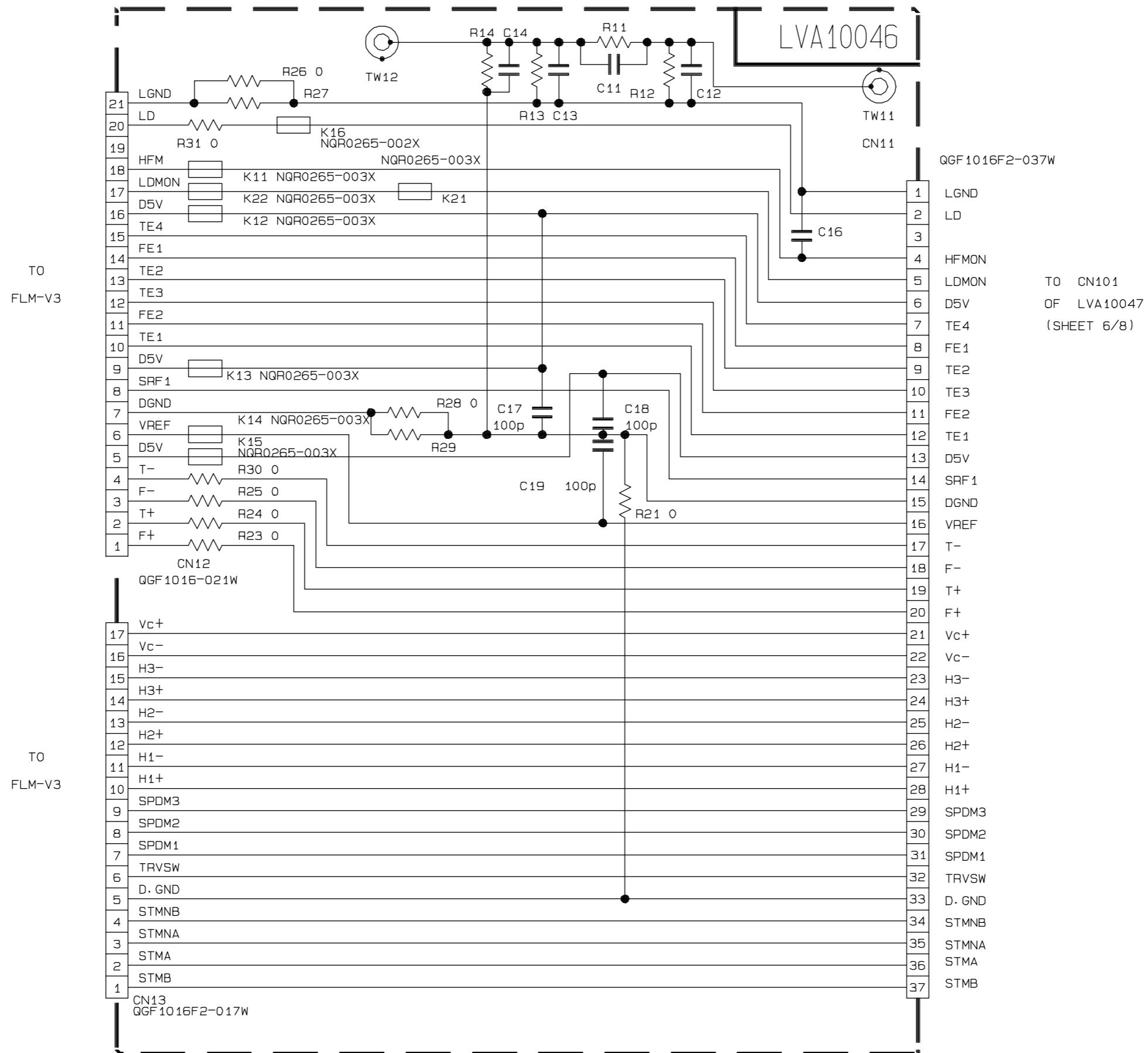
RDV-985

RDV-985

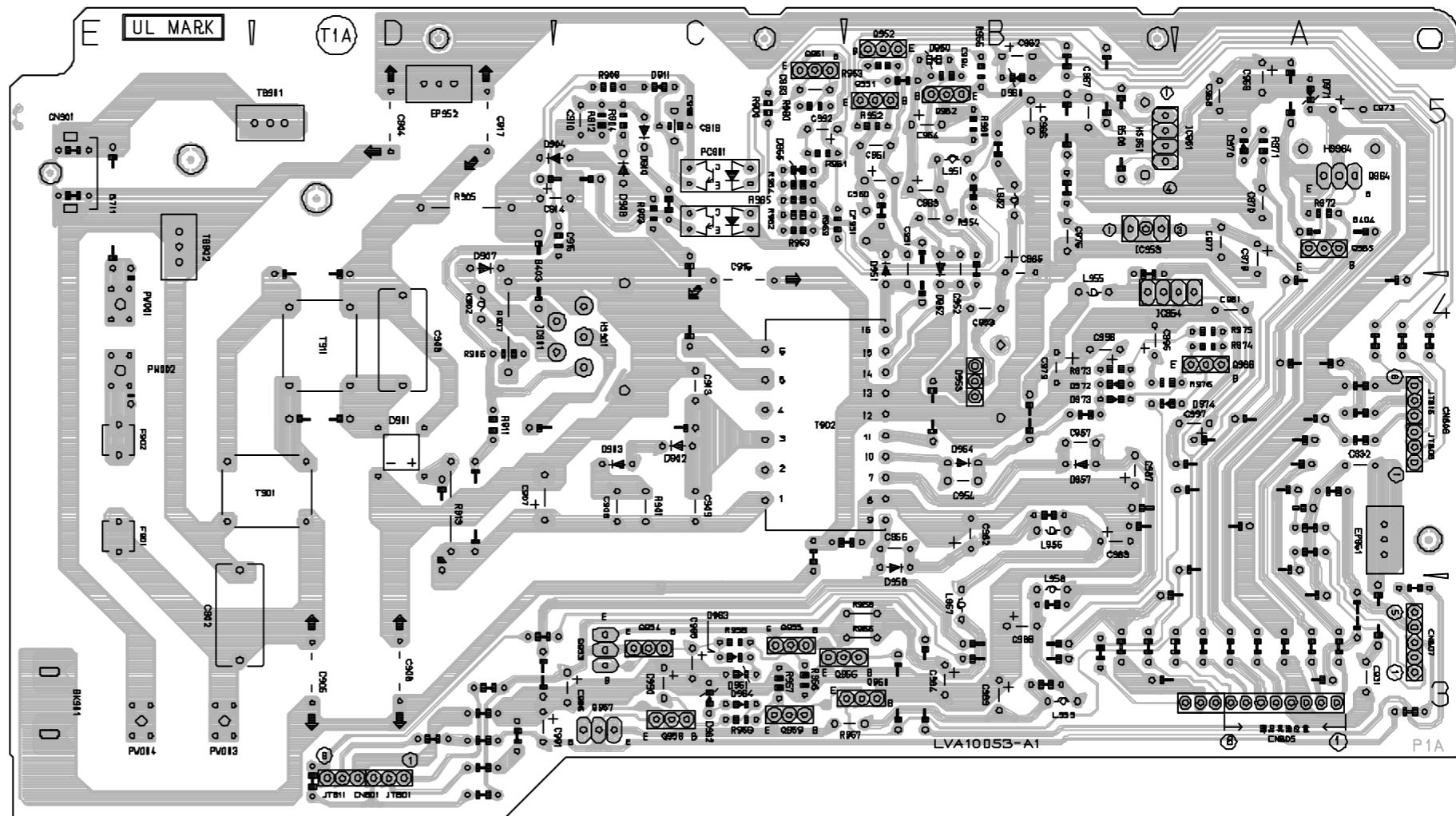
## CPU



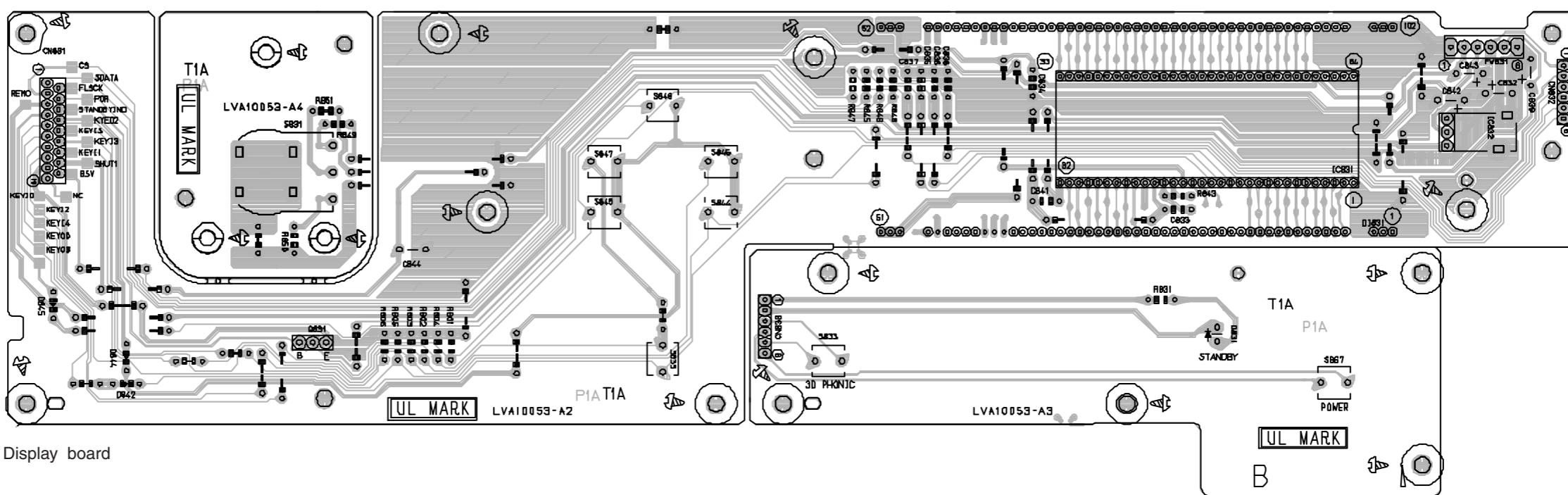
➡ AUDIO SIGNAL



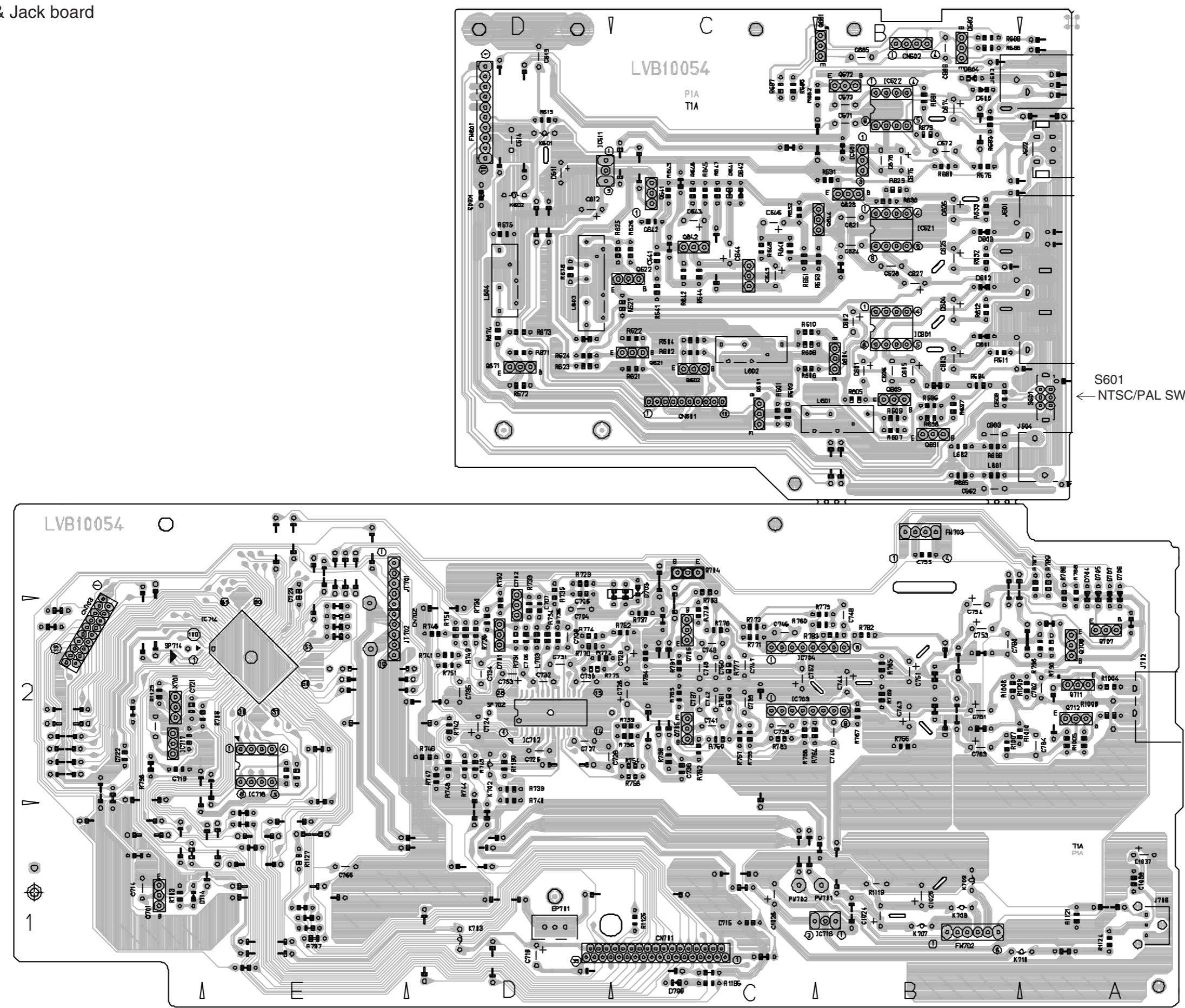
## Printed circuit board



## Power supply board

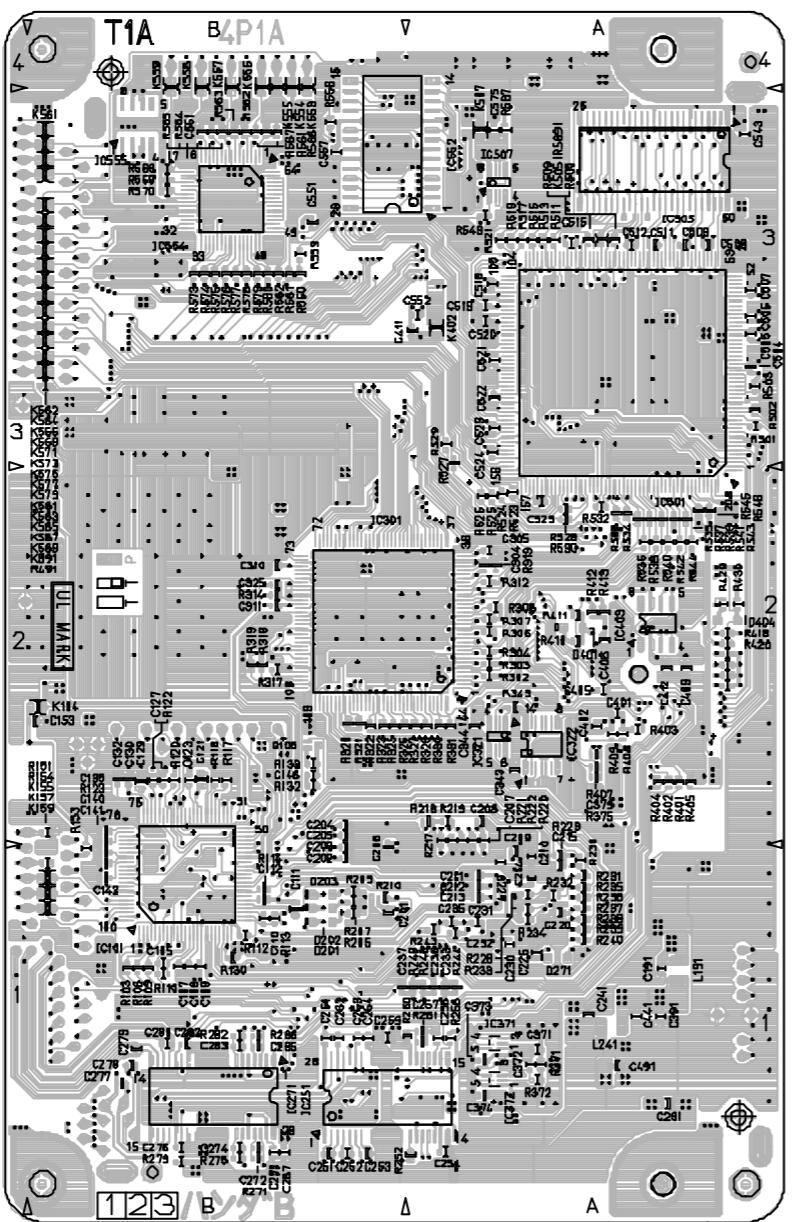


## Display board

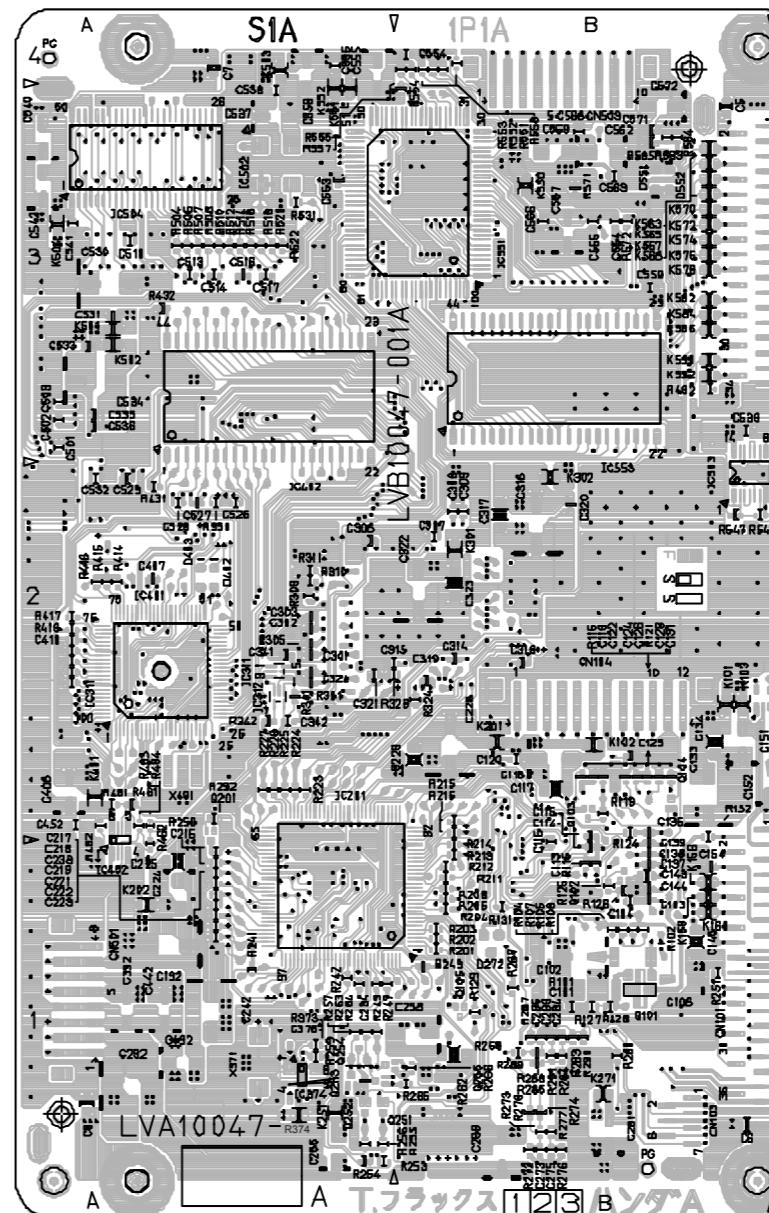


## Servo control board

(BOTOM SIDE)



(TOP SIDE)



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## PARTS LIST

[RDV-985]

\* All printed circuit boards and its assemblies are not available as service parts.

## Parts List 1/8

SYMBOL	PARTS NO.	DESCRIPTION	SYMBOL	PARTS NO.	DESCRIPTION
<b>POWER SUPPLY, FL DISPLAY BOARD LVA10053</b>					
BK901	E409182-001SM	GRAND TERMINAL	D842	1SS199-02-T2	SI DIODE
C832	QER61AM-476Z	ELECTROLYTIC CAPACITOR 10V47uF	D844	1SS199-02-T2	SI DIODE
C833	QCBB1HK-101Y	CERAMIC CAPACITOR 50V100PF	D845	1SS199-02-T2	SI DIODE
C834	QDVB1EZ-223Y	CERAMIC CAPACITOR 0.022uF	D901	S1WB/A/60-4101	BRIDGE DIODE
C835	QCBB1HK-471Y	CERAMIC CAPACITOR 50V470PF	D902	ERA18-04-T1	FR DIODE
C836	QCBB1HK-471Y	CERAMIC CAPACITOR 50V470PF	D903	ERA18-04-T1	FR DIODE
C837	QCBB1HK-471Y	CERAMIC CAPACITOR 50V470PF	D904	ERA18-04-T1	FR DIODE
C838	QDVB1EZ-223Y	CERAMIC CAPACITOR 0.022uF	D908	ERA18-04-T1	FR DIODE
C839	QER61AM-226Z	ELECTROLYTIC CAPACITOR 10V22uF	D910	ERA18-04-T1	FR DIODE
C841	QCFB1HZ-104Y	CERAMIC CAPACITOR 0.1uF	D911	1SS133-T2	DIODE
C842	QER41HM-475	ELECTROLYTIC CAPACITOR 50V4.7uF	D950	MTZJ27C-T2	ZENER DIODE
C902	QFZ9067-683	M CAPACITOR 0.068uF	D951	ERA18-04-T1	FR DIODE
C905	QCZ9079-102	CERAMIC CAPACITOR 1000PF	D952	ERA18-04-T1	FR DIODE
C906	QCZ9079-102	CERAMIC CAPACITOR 1000PF	D953	FMB-24	SB DIODE
C907	QEZO374-826	ELECTROLYTIC CAPACITOR 400V120uF	D954	ERA18-04-T1	FR DIODE
C908	QCZ0136-332Z	CERAMIC CAPACITOR 3300PF	D956	ERA18-04-T1	FR DIODE
C909	QCZ0136-101Z	CERAMIC CAPACITOR 100PF	D957	ERA18-04-T1	FR DIODE
C910	QCS11HJ-221	CERAMIC CAPACITOR 50V220PF	D960	MTZJ2.0A-T2	ZENER DIODE
C913	QCZ0136-221Z	CERAMIC CAPACITOR 220PF	D961	MTZJ12C-T2	ZENER DIODE
C914	QEMU1EM-396Z	ELECTROLYTIC CAPACITOR 25V39uF	D962	MTZJ12C-T2	ZENER DIODE
C915	QCBB1HK-471Y	CERAMIC CAPACITOR 50V470PF	D963	1SS133-T2	DIODE
C916	QCZ9079-332	CERAMIC CAPACITOR 3300PF	D964	1SS133-T2	DIODE
C919	QCFB1HZ-104Y	CERAMIC CAPACITOR 0.1uF	D965	MTZJ5.1C-T2	ZENER DIODE
C931	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF	D970	1SS133-T2	DIODE
C932	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF	D972	1SS133-T2	DIODE
C933	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF	D973	1SS133-T2	DIODE
C951	QCS11HJ-101	CERAMIC CAPACITOR 50V100PF	D974	1SS133-T2	DIODE
C952	QCS11HJ-101	CERAMIC CAPACITOR 50V100PF	DI831	QLF0049-001	FL TUBE
C953	QCS11HJ-101	CERAMIC CAPACITOR 50V100PF	EP951	QNZ0136-001Z	EARTH PLATE
C954	QCS11HJ-101	CERAMIC CAPACITOR 50V100PF	EP952	QNZ0136-001Z	EARTH PLATE
C956	QCS11HJ-101	CERAMIC CAPACITOR 50V100PF	FC901	QNZ0136-001Z	FUSE CLIP
C957	QCS11HJ-101	CERAMIC CAPACITOR 50V100PF	FC902	QNZ0136-001Z	FUSE CLIP
C960	QEMU1AM-107Z	ELECTROLYTIC CAPACITOR 10V100uF	HS901	LE40597-001A	HEAT SINK
C961	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF	HS964	LE40595-001A	HEAT SINK
C962	QET41HM-226	ELECTROLYTIC CAPACITOR 50V22uF	IC831	M66004SP	FL DRIVER IC
C963	QEMU1VM-396Z	ELECTROLYTIC CAPACITOR 35V39uF	IC832	GP1U271X	OPTICAL RECIVER
C964	QET41HM-226	ELECTROLYTIC CAPACITOR 50V22uF	IC901	STR-F6652	IC
C965	QEEMS1AM-108	ELECTROLYTIC CAPACITOR 10V1000uF	IC951	PQO5RF2	IC
C966	QET41AM-477	ELECTROLYTIC CAPACITOR 10V470uF	IC953	LM2940CT-5.0	IC
C967	QFV41HJ-104	TF CAPACITOR 50V0.1uF	JT801	QGD2501C1-03Z	SOCKET I.M OF CN801 TO AUDIO
C968	QFV41HJ-104	TF CAPACITOR 50V0.1uF	JT806	QGD2501C1-03Z	SOCKET I.M OF CN806 TO FRONT
C969	QET41AM-277	ELECTROLYTIC CAPACITOR 10V220uF	JT811	QGD2501C1-03Z	SOCKET I.M OF CN801 TO AUDIO
C970	QFV41HJ-104	TF CAPACITOR 50V0.1uF	JT816	QGD2501C1-03Z	SOCKET I.M OF CN806 TO FRONT
C973	QET41AM-107	ELECTROLYTIC CAPACITOR 10V100uF	K902	QQR0601-001Z	FERRITE BEADS
C976	QFV41HJ-104	TF CAPACITOR 50V0.1uF	L951	QQL01BK-R22Z	P COIL
C977	QFV41HJ-104	TF CAPACITOR 50V0.1uF	L952	QQL31AK-101Z	INDUCTOR
C978	QET41AM-107	ELECTROLYTIC CAPACITOR 10V100uF	L955	QQL31AK-101Z	INDUCTOR
C979	QEEMS1CM-827	ELECTROLYTIC CAPACITOR 16V820uF	L957	QQL31AK-101Z	INDUCTOR
C981	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF	L959	QQL31AK-101Z	INDUCTOR
C982	QEEMS1EM-567	ELECTROLYTIC CAPACITOR 25V560uF	PC901	PC123FY	IC (PHOTO COUPLE )
C984	QET41EM-227	ELECTROLYTIC CAPACITOR 25V220uF	PC902	PC123FY	IC (PHOTO COUPLE )
C985	QET41CM-476	ELECTROLYTIC CAPACITOR 16V47uF	Q831	DTC114YSA-T	DIGITAL TRANSISTOR
C986	QET41CM-107	ELECTROLYTIC CAPACITOR 16V100uF	Q951	2SC2060/QR-T	TRANSISTOR
C987	QEMU1EM-187Z	ELECTROLYTIC CAPACITOR 25V180uF	Q952	DTA144ESA-T	DIGITAL TRANSISTOR
C989	QET41EM-107	ELECTROLYTIC CAPACITOR 25V100uF	Q953	2SB1565/EF/	TRANSISTOR
C990	QET41CM-476	ELECTROLYTIC CAPACITOR 16V47uF	Q954	2SC1740S/RS-T	TRANSISTOR
C991	QET41CM-107	ELECTROLYTIC CAPACITOR 16V100uF	Q955	DTA144YSA-T	DIGITAL TRANSISTOR
C992	QET41HM-474	ELECTROLYTIC CAPACITOR 50V0.47uF	Q956	DTC114ESA-T	DIGITAL TRANSISTOR
C993	QCS11HJ-101	CERAMIC CAPACITOR 50V100PF	Q957	2SD2394/EF/	TRANSISTOR
C994	QDVB1EZ-223Y	CERAMIC CAPACITOR 0.022uF	Q958	2SA933S/RS-T	TRANSISTOR
C995	QET41CM-227	ELECTROLYTIC CAPACITOR 16V220uF	Q959	DTC114YSA-T	DIGITAL TRANSISTOR
C996	QET41CM-226	ELECTROLYTIC CAPACITOR 16V22uF	Q960	DTA114ESA-T	DIGITAL TRANSISTOR
C997	QET41CM-227	ELECTROLYTIC CAPACITOR 16V220uF	Q961	2SC1740S/RS-T	TRANSISTOR
CN805	WJK0053-002A	8PIN WIRE TO MAIN	Q962	2SA933S/RS-T	TRANSISTOR
CN831	QGF1016C1-19	CONNECTOR TO AUDIO	Q964	2SB1565/EF/	TRANSISTOR
CN832	QGB2014N1-06	CONNECTOR TO POWER KEY	Q965	2SC1740S/RS-T	TRANSISTOR
CN833	QGB2014P1-06	CONNECTOR	Q966	2SA933S/RS-T	TRANSISTOR
CP951	ICP-N10-T	ICP	R1126	QRE141J-101Y	CARBON RESISTOR 100 1/4W
D831	SLR-342VC-T	LED STANDBY	R801	QRE141J-472Y	CARBON RESISTOR 4.7K 1/4W
			R802	QRE141J-472Y	CARBON RESISTOR 4.7K 1/4W

## Parts List 2/8

SYMBOL	PARTS NO.	DESCRIPTION	SYMBOL	PARTS NO.	DESCRIPTION
R803	QRE141J-472Y	CARBON RESISTOR 4.7K 1/4W	C603	QETN1AM-108Z	ELECTROLYTIC CAPACITOR 10V1000uF
R804	QRE141J-472Y	CARBON RESISTOR 4.7K 1/4W	C604	QETN1AM-108Z	ELECTROLYTIC CAPACITOR 10V1000uF
R805	QRE141J-472Y	CARBON RESISTOR 4.7K 1/4W	C605	QETN1AM-107Z	ELECTROLYTIC CAPACITOR 10V1000uF
R806	QRE141J-472Y	CARBON RESISTOR 4.7K 1/4W	C606	QDX31EM-473Z	CERAMIC CAPACITOR 0.047uF
R831	QRE141J-331Y	CARBON RESISTOR 330 1/4W	C611	QETM1CM-228	ELECTROLYTIC CAPACITOR 16V2200uF
R843	QRE141J-273Y	CARBON RESISTOR 27K 1/4W	C612	QETN0JM-227Z	ELECTROLYTIC CAPACITOR 6.3V220uF
R845	QRE141J-102Y	CARBON RESISTOR 1K 1/4W	C613	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF
R846	QRE141J-102Y	CARBON RESISTOR 1K 1/4W	C614	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF
R847	QRE141J-102Y	CARBON RESISTOR 1K 1/4W	C621	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF
R848	QRE141J-102Y	CARBON RESISTOR 1K 1/4W	C624	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF
R849	QRE141J-222Y	CARBON RESISTOR 2.2K 1/4W	C625	QETN1AM-108Z	ELECTROLYTIC CAPACITOR 10V1000uF
R850	QRE141J-222Y	CARBON RESISTOR 2.2K 1/4W	C626	QET41AM-108	ELECTROLYTIC CAPACITOR 10V1000uF
R851	QRE141J-222Y	CARBON RESISTOR 2.2K 1/4W	C627	QET41AM-107	ELECTROLYTIC CAPACITOR 10V1000uF
R900	QRE141J-221Y	CARBON RESISTOR 220 1/4W	C628	QDX31EM-473Z	CERAMIC CAPACITOR 0.047uF
R901	QRL01DJ-683X	OMF RESISTOR 68K 1W	C662	QDGB1HK-102Y	CERAMIC CAPACITOR 1000PF
R903	QRE141J-270Y	CARBON RESISTOR 27 1/4W	C671	QDX31EM-473Z	CERAMIC CAPACITOR 0.047uF
R904	QRE141J-222Y	CARBON RESISTOR 2.2K 1/4W	C672	QDX31EM-104Z	CERAMIC CAPACITOR 0.1uF
R905	QRL027J-683	METAL OXIDE FILM RESISTOR 68K 2W	C673	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF
R906	QRE141J-681Y	CARBON RESISTOR 680 1/4W	C674	QET41AM-108	ELECTROLYTIC CAPACITOR 10V1000uF
R907	QRT022J-R47	UNF. MF. RESISTOR 0.47 2W	C675	QET41AM-107	ELECTROLYTIC CAPACITOR 10V1000uF
R908	QRE141J-332Y	CARBON RESISTOR 3.3K 1/4W	C676	QDX31EM-473Z	CERAMIC CAPACITOR 0.047uF
R911	QRE141J-155Y	CARBON RESISTOR 1.5M 1/4W	C694	QET41AM-108	ELECTROLYTIC CAPACITOR 10V1000uF
R952	QRE141J-103Y	CARBON RESISTOR 10K 1/4W	C695	QDX31EM-104Z	CERAMIC CAPACITOR 0.1uF
R953	QRE141J-103Y	CARBON RESISTOR 10K 1/4W	C704	QFV41HJ-474	CAPACITOR 50V0.47uF
R954	QRZ9006-4R7X	F CAPACITOR 4.7 1/0W	C705	QDYB1CM-103Y	AB CAPACITOR 0.01uF
R955	QRE141J-223Y	CARBON RESISTOR 22K 1/4W	C706	QDGB1HK-102Y	CERAMIC CAPACITOR 1000PF
R956	QRE141J-103Y	CARBON RESISTOR 10K 1/4W	C707	QDGB1HK-102Y	CERAMIC CAPACITOR 1000PF
R957	QRE141J-103Y	CARBON RESISTOR 10K 1/4W	C708	QDX31EM-473Z	CERAMIC CAPACITOR 0.047uF
R958	QRE141J-102Y	CARBON RESISTOR 1K 1/4W	C714	QCS31HJ-331Z	CERAMIC CAPACITOR 330PF
R959	QRE141J-102Y	CARBON RESISTOR 1K 1/4W	C717	QCFB1HZ-104Y	CERAMIC CAPACITOR 0.1uF
R960	QRE141J-101Y	CARBON RESISTOR 100 1/4W	C719	QCFB1HZ-104Y	CERAMIC CAPACITOR 0.1uF
R961	QRE141J-681Y	CARBON RESISTOR 680 1/4W	C720	QCS11HJ-102	CERAMIC CAPACITOR 50V1000PF
R962	QRE141J-105Y	CARBON RESISTOR 1M1/4W	C721	QCFB1HZ-104Y	CERAMIC CAPACITOR 0.1uF
R963	QRE141J-101Y	CARBON RESISTOR 100 1/4W	C722	QCFB1HZ-104Y	CERAMIC CAPACITOR 0.1uF
R964	QRE141J-105Y	CARBON RESISTOR 1M 1/4W	C723	QCFB1HZ-104Y	CERAMIC CAPACITOR 0.1uF
R965	QRE141J-103Y	CARBON RESISTOR 10K 1/4W	C724	QETN0JM-477Z	ELECTROLYTIC CAPACITOR 6.3V470uF
R966	QRK126J-2R7X	CARBON RESISTOR 2.7 1/4W	C725	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF
R967	QRZ9005-100X	FUSIBLE RESISTOR I/M 10 1W	C726	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF
R968	QRK126J-2R7X	CARBON RESISTOR 2.7 1/4W	C727	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF
R969	QRE141J-221Y	CARBON RESISTOR 220 1/4W	C728	QETN0JM-477Z	ELECTROLYTIC CAPACITOR 6.3V470uF
R971	QRE141J-472Y	CARBON RESISTOR 4.7K 1/4W	C729	QETN0JM-477Z	ELECTROLYTIC CAPACITOR 6.3V470uF
R972	QRE141J-152Y	CARBON RESISTOR 1.5K 1/4W	C730	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF
R973	QRE141J-102Y	CARBON RESISTOR 1K 1/4W	C731	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF
R974	QRE141J-562Y	CARBON RESISTOR 5.6K 1/4W	C732	QCZ0205-155Z	MULTI-LAYER CERAMIC CAP 1.5uF
R975	QRE141J-562Y	CARBON RESISTOR 5.6K 1/4W	C733	QETN0JM-477Z	ELECTROLYTIC CAPACITOR 6.3V470uF
R976	QRE141J-221Y	CARBON RESISTOR 220 1/4W	C734	QCF11HZ-473	CERAMIC CAPACITOR 0.047uF
R980	QRE141J-821Y	CARBON RESISTOR 820 1/4W	C735	QCF11HZ-103	CERAMIC CAPACITOR 0.01uF
S831	QVQ0123-B15	SHUTTLE VARIABLE RESISTOR	C736	QDYB1CM-103Y	AB CAPACITOR 0.01uF
S833	QSW0499-001Z	PUSH SWITCH VSS	C737	QFLC1HJ-152Z	M CAPACITOR 50V1500PF
S835	QSW0499-001Z	PUSH SWITCH OPEN/CLOSE	C738	QFLC1HJ-181Z	M CAPACITOR 50V180PF
S844	QSW0499-001Z	PUSH SWITCH BWD SKIP	C739	QFN41HJ-333	M CAPACITOR 50V0.033uF
S845	QSW0499-001Z	PUSH SWITCH FWD SKIP	C740	QFN41HJ-103	M CAPACITOR 50V0.01uF
S846	QSW0499-001Z	PUSH SWITCH STOP	C741	QFLC1HJ-152Z	M CAPACITOR 50V1500PF
S847	QSW0499-001Z	PUSH SWITCH PAUSE	C742	QFLC1HJ-182Z	M CAPACITOR 50V1800PF
S848	QSW0499-001Z	PUSH SWITCH PLAY	C743	QET41CM-477	ELECTROLYTIC CAPACITOR 16V470uF
S867	QSW0499-001Z	PUSH SWITCH POWER	C744	QET41CM-477	ELECTROLYTIC CAPACITOR 16V470uF
T901	QQR0894-001	LINE FILTER	C745	QFLC1HJ-152Z	M CAPACITOR 50V1500PF
T902	QQS0028-001	SWITCH TRANSFORMER	C746	QFLC1HJ-181Z	M CAPACITOR 50V180PF
TB901	QNZ0079-001Z	TAB	C747	QFN41HJ-333	M CAPACITOR 50V0.033uF
TB902	QNZ0079-001Z	TAB	C748	QFN41HJ-103	M CAPACITOR 50V0.01uF
<b>AUDIO, VIDEO, CPU BOARD LVB10054</b>			C749	QFLC1HJ-152Z	M CAPACITOR 50V1500PF
			C750	QFLC1HJ-182Z	M CAPACITOR 50V1800PF
BK693	LE30696-001A	EARTH PLATE	C751	QET41CM-477	ELECTROLYTIC CAPACITOR 16V470uF
C1024	QET41CM-477	ELECTROLYTIC CAPACITOR 16V470uF	C752	QET41CM-477	ELECTROLYTIC CAPACITOR 16V470uF
C1025	QET41CM-477	ELECTROLYTIC CAPACITOR 16V470uF	C755	QDXB1CM-152Y	CERAMIC CAPACITOR 1500PF
C1026	QETN0JM-477Z	ELECTROLYTIC CAPACITOR 6.3V470uF	C760	QFLC1HJ-152Z	M CAPACITOR 50V1500PF
C1037	QET41CM-107	ELECTROLYTIC CAPACITOR 16V100uF	C761	QET41EM-476	ELECTROLYTIC CAPACITOR 25V47uF
C1038	QCFB1HZ-104Y	CERAMIC CAPACITOR 0.1uF	C762	QFLC1HJ-152Z	M CAPACITOR 50V1500PF
C601	QETN1CM-226Z	ELECTROLYTIC CAPACITOR 16V22uF	C763	QET41EM-476	ELECTROLYTIC CAPACITOR 25V47uF
C602	QETN1CM-226Z	ELECTROLYTIC CAPACITOR 16V22uF	C764	QFLC1HJ-152Z	M CAPACITOR 50V1500PF

## Parts List 3/8

SYMBOL	PARTS NO.	DESCRIPTION	SYMBOL	PARTS NO.	DESCRIPTION
C765	QCF11HZ-473	CERAMIC CAPACITOR 0.047uF	R1004	QRE141J-151Y	CARBON RESISTOR 150 1/4
CN601	VMC0075-010N	10P PLUG ASSY TO MAIN	R1005	QRE141J-103Y	CARBON RESISTOR 10K 1/4
<b>CN603</b>	<b>QGA2001C1-03</b>	<b>3P PLUG ASSY</b>	R1006	QRE141J-273Y	CARBON RESISTOR 27K 1/4
CN701	QGF1016C1-35	FFC/FPC CONNECTOR TO MAIN	R1007	QRE141J-561Y	CARBON RESISTOR 560 1/4
CN703	QGF1016C1-19	CONNECTOR TO FRONT	R1008	QRE141J-151Y	CARBON RESISTOR 150 1/4
D601	1SS133-T2	DIODE	R1009	QRE141J-103Y	CARBON RESISTOR 10K 1/4
D602	1SS133-T2	DIODE	R1010	QRE141J-273Y	CARBON RESISTOR 27K 1/4
D603	1SS133-T2	DIODE	R1119	QRE141J-391Y	CARBON RESISTOR 390 1/4
D604	1SS133-T2	DIODE	R1121	QRE141J-104Y	CARBON RESISTOR 100K 1/4
D605	1SS133-T2	DIODE	R1124	QRE141J-2R2Y	CARBON RESISTOR 2.2 1/4
D701	KV15555N-T	VARI CAP	R1125	QRE141J-105Y	CARBON RESISTOR 1M 1/4
D702	KV15555N-T	VARI CAP	R1130	QRE141J-471Y	CARBON RESISTOR 470 1/4
D703	MTZJ5.1C-T2	ZENER DIODE	R1196	QRE141J-472Y	CARBON RESISTOR 4.7K 1/4
D706	1SS133-T2	DIODE	R601	QRE141J-222Y	CARBON RESISTOR 2.2K 1/4W
D707	1SS133-T2	DIODE	R602	QRE141J-222Y	CARBON RESISTOR 2.2K 1/4W
D714	1SS133-T2	DIODE	R603	QRE141J-102Y	CARBON RESISTOR 1K 1/4W
D799	1SS133-T2	DIODE	R604	QRE141J-102Y	CARBON RESISTOR 1K 1/4W
FW702	QUM106-24DGZ4	PARA RIBON WIRE TO POWER	R605	QRE141J-222Y	CARBON RESISTOR 2.2K 1/4W
IC601	NJM2267D	IC	R606	QRE141J-222Y	CARBON RESISTOR 2.2K 1/4W
IC611	NJM78M05FA	IC	R607	QRE141J-102Y	CARBON RESISTOR 1K 1/4W
IC621	NJM2267D	IC	R608	QRE141J-102Y	CARBON RESISTOR 1K 1/4W
IC622	NJM2268D	IC	R609	QRE141J-221Y	CARBON RESISTOR 220R 1/4W
IC702	MN35503-X	IC	R610	QRE141J-221Y	CARBON RESISTOR 220R 1/4W
IC703	NJM4580L	IC	R611	QRE141J-750Y	CARBON RESISTOR 75R 1/4W
IC704	NJM4580L	IC	R612	QRE141J-750Y	CARBON RESISTOR 75R 1/4W
IC714+	<b>M30622MC-736FP</b>	IC	R615	QRE141J-102Y	CARBON RESISTOR 1K 1/4
IC714*	<b>M30622MC-795FP</b>	<b>IC (after S/N 0061001)</b>	R621	QRE141J-153Y	CARBON RESISTOR 15K 1/4
IC716	AK93C45A	IC	R622	QRE141J-752Y	CARBON RESISTOR 7.5K 1/4
IC717	IC-PST9140-T	IC	R623	QRE141J-102Y	CARBON RESISTOR 1K 1/4
IC718	NJM78M05FA	IC	R624	QRE141J-102Y	CARBON RESISTOR 1K 1/4
J601	QNN0312-001	PIN JACK (COMPONENT)	R625	QRE141J-102Y	CARBON RESISTOR 1K 1/4
J602	QND0019-001	S-CONNECTOR	R626	QRE141J-221Y	CARBON RESISTOR 220K 1/4
J603	QNN0106-001	PIN JACK (COMPOSITE)	R627	QRE141J-102Y	CARBON RESISTOR 1K 1/4
J702	QNN0216-001	PIN JACK (AUDIO)	R630	QRE141J-221Y	CARBON RESISTOR 220K 1/4
J706	GP1F32T	OPTICAL JACK	R631	QRE141J-222Y	CARBON RESISTOR 2.2K 1/4
JT701	QGD2501C1-05Z	SOCKET	R632	QRE141J-750Y	CARBON RESISTOR 75R 1/4W
JT702	QGD2501C1-05Z	SOCKET	R633	QRE141J-750Y	CARBON RESISTOR 75 1/4
K601	QQR0601-001Z	FERRITE BEADS	R665	QRE141J-101Y	CARBON RESISTOR 100 1/4
K602	QQR0601-001Z	FERRITE BEADS	R666	QRE141J-101Y	CARBON RESISTOR 100 1/4
K603	QQR0601-001Z	FERRITE BEADS	R671	QRE141J-562Y	CARBON RESISTOR 5.6K 1/4W
K702	QQR0601-001Z	FERRITE BEADS	R672	QRE141J-562Y	CARBON RESISTOR 5.6K 1/4
K703	QQR0601-001Z	FERRITE BEADS	R673	QRE141J-102Y	CARBON RESISTOR 1K 1/4
K704	QQR0601-001	FERRITE BEADS	R674	QRE141J-102Y	CARBON RESISTOR 1K 1/4
K707	QQR0601-001Z	FERRITE BEADS	R675	QRE141J-102Y	CARBON RESISTOR 1K 1/4
K708	QQR0601-001Z	FERRITE BEADS	R676	QRE141J-750Y	CARBON RESISTOR 75 1/4
K709	QQR0601-001Z	FERRITE BEADS	R679	QRE141J-102Y	CARBON RESISTOR 1K 1/4
K710	QQR0601-001Z	FERRITE BEADS	R680	QRE141J-102Y	CARBON RESISTOR 1K 1/4
L601	QQR0712-001	LPF	R681	QRE141J-221Y	CARBON RESISTOR 220 1/4
L602	QQR0712-001	LPF	R682	QRE141J-222Y	CARBON RESISTOR 2.2K 1/4
L603	QQR0713-001	LPF	R683	QRE141J-750Y	CARBON RESISTOR 75 1/4
L604	QQR0714-001	BPF	R684	QRE141J-103Y	CARBON RESISTOR 10K 1/4W
L661	QQL121K-3R3Y	INDUCTOR	R694	QRE141J-750Y	CARBON RESISTOR 75R 1/4W
L662	QQL121K-221Y	INDUCTOR	R695	QRE141J-750Y	CARBON RESISTOR 75R 1/4W
L703	QQL121M-1R2Y	INDUCTOR	R703	QRE141J-103Y	CARBON RESISTOR 10K 1/4W
Q601	2SA933/RS/-T	TRANSISTOR	R707	QRE141J-472Y	CARBON RESISTOR 4.7K 1/4
Q602	2SA933/RS/-T	TRANSISTOR	R708	QRE141J-472Y	CARBON RESISTOR 4.7K 1/4
Q603	2SA933/RS/-T	TRANSISTOR	R711	QRE141J-102Y	CARBON RESISTOR 1K 1/4
Q604	2SA933/RS/-T	TRANSISTOR	R728	QRE141J-333Y	CARBON RESISTOR 33K 1/4
Q621	2SA933/RS/-T	TRANSISTOR	R729	QRE141J-102Y	CARBON RESISTOR 1K 1/4
Q622	2SA933/RS/-T	TRANSISTOR	R730	QRE141J-333Y	CARBON RESISTOR 33K 1/4
Q623	2SA933/RS/-T	TRANSISTOR	R731	QRE141J-104Y	CARBON RESISTOR 100K 1/4
Q671	2SA933/RS/-T	TRANSISTOR	R732	QRE141J-333Y	CARBON RESISTOR 33K 1/4
Q672	2SA933/RS/-T	TRANSISTOR	R733	QRE141J-104Y	CARBON RESISTOR 100K 1/4
Q701	DTC114ESA-T	DIGITAL TRANSISTOR	R734	QRE141J-181Y	CARBON RESISTOR 180 1/4
Q704	DTA114ESA-T	DIGITAL TRANSISTOR	R735	QRE141J-104Y	CARBON RESISTOR 100K 1/4
Q705	2SD1302/ST/-T	TRANSISTOR	R736	QRE141J-153Y	CARBON RESISTOR 15K 1/4
Q706	2SD1302/ST/-T	TRANSISTOR	R737	QRE141J-102Y	CARBON RESISTOR 1K 1/4
Q708	DTA114ESA-T	DIGITAL TRANSISTOR	R738	QRE141J-473Y	CARBON RESISTOR 47K 1/4
Q711	2SD1302/ST/-T	TRANSISTOR	R739	QRE141J-560Y	CARBON RESISTOR 56 1/4
Q712	2SD1302/ST/-T	TRANSISTOR	R740	QRE141J-560Y	CARBON RESISTOR 56 1/4
R1003	QRE141J-561Y	CARBON RESISTOR 560 1/4	R741	QRE141J-471Y	CARBON RESISTOR 470 1/4

## Parts List 4/8

SYMBOL	PARTS NO.	DESCRIPTION	SYMBOL	PARTS NO.	DESCRIPTION
R742	QRE141J-471Y	CARBON RESISTOR 470 1/4	C120	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R743	QRE141J-471Y	CARBON RESISTOR 470 1/4	C121	NCB21CK-334X	CERAMIC CAPACITOR 0.33uF
R744	QRE141J-471Y	CARBON RESISTOR 470 1/4	C122	NCS31HJ-121X	CERAMIC CAPACITOR 1200PF
R745	QRE141J-511Y	CARBON RESISTOR 510 1/4	C123	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R746	QRE141J-152Y	CARBON RESISTOR 1.5K 1/4	C124	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R747	QRE141J-560Y	CARBON RESISTOR 56 1/4	C125	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R748	QRE141J-101Y	CARBON RESISTOR 100 1/4	C126	NCB31HJ-221X	CERAMIC CAPACITOR 220PF
R749	QRE141J-471Y	CARBON RESISTOR 470 1/4	C127	NCB31HJ-221X	CERAMIC CAPACITOR 220PF
R750	QRE141J-102Y	CARBON RESISTOR 1K 1/4	C128	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R751	QRE141J-471Y	CARBON RESISTOR 470 1/4	C129	NCB21CK-224X	CERAMIC CAPACITOR 0.22uF
R752	QRE141J-152Y	CARBON RESISTOR 1.5K 1/4	C130	NCB31HK-102X	CERAMIC CAPACITOR 1000PF
R753	QRE141J-560Y	CARBON RESISTOR 56 1/4	C131	NCB31HK-681X	CERAMIC CAPACITOR 680PF
R754	QRE141J-1602Y	METAL FILM RESISTOR 16 1/4W	C132	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R755	QRE141J-183Y	CARBON RESISTOR 18K 1/4	C133	NEX40JM-566X	ELECTROLYTIC CAPACITOR 6.3V56uF
R756	QRE141J-1602Y	METAL FILM RESISTOR 16 1/4W	C134	NCB11CK-105X	CERAMIC CAPACITOR 1uF
R757	QRE141J-821Y	CARBON RESISTOR 820 1/4	C135	NCB31HJ-221X	CERAMIC CAPACITOR 220PF
R758	QRE141J-243Y	CARBON RESISTOR 24K 1/4	C136	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R759	QRE141J-243Y	CARBON RESISTOR 24K 1/4	C137	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R760	QRE141J-682Y	CARBON RESISTOR 6.8K 1/4	C138	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R761	QRE141J-362Y	CARBON RESISTOR 3.6K 1/4	C139	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R762	QRE141J-103Y	CARBON RESISTOR 10K 1/4	C140	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R763	QRE141J-561Y	CARBON RESISTOR 560 1/4	C141	NCB31HJ-820X	CERAMIC CAPACITOR 82PF
R764	QRE141J-561Y	CARBON RESISTOR 560 1/4	C142	NCB31HK-222X	CERAMIC CAPACITOR 2200PF
R765	QRE141J-105Y	CARBON RESISTOR 1M 1/4	C143	NCB21CK-224X	CERAMIC CAPACITOR 0.22uF
R766	QRE141J-221Y	CARBON RESISTOR 220 1/4	C144	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R767	QRE141J-821Y	CARBON RESISTOR 820 1/4	C145	NCB11CK-105X	CERAMIC CAPACITOR 1uF
R768	QRE141J-221Y	CARBON RESISTOR 220 1/4	C151	NEX40JM-156X	ELECTROLYTIC CAPACITOR 6.3V15uF
R769	QRE141J-183Y	CARBON RESISTOR 18K 1/4	C152	NEX40JM-156X	ELECTROLYTIC CAPACITOR 6.3V15uF
R770	QRE141J-1602Y	METAL FILM RESISTOR 16 1/4W	C153	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R771	QRE141J-183Y	CARBON RESISTOR 18K 1/4	C154	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R772	QRE141J-1602Y	METAL FILM RESISTOR 16 1/4W	C191	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R773	QRE141J-821Y	CARBON RESISTOR 820 1/4	C192	NEA70JM-107X	ELECTROLYTIC CAPACITOR 6.3V100uF
R774	QRE141J-243Y	CARBON RESISTOR 24K 1/4	C201	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R775	QRE141J-243Y	CARBON RESISTOR 24K 1/4	C202	NCB31CK-393X	CERAMIC CAPACITOR 0.039uF
R776	QRE141J-682Y	CARBON RESISTOR 6.8K 1/4	C203	NCB31CK-393X	CERAMIC CAPACITOR 0.039uF
R777	QRE141J-362Y	CARBON RESISTOR 3.6K 1/4	C204	NCB31CK-393X	CERAMIC CAPACITOR 0.039uF
R778	QRE141J-103Y	CARBON RESISTOR 10K 1/4	C205	NCB31CK-393X	CERAMIC CAPACITOR 0.039uF
R779	QRE141J-561Y	CARBON RESISTOR 560 1/4	C206	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R780	QRE141J-561Y	CARBON RESISTOR 560 1/4	C208	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R781	QRE141J-105Y	CARBON RESISTOR 1M 1/4	C209	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R782	QRE141J-221Y	CARBON RESISTOR 220 1/4	C210	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R783	QRE141J-821Y	CARBON RESISTOR 820 1/4	C211	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R784	QRE141J-221Y	CARBON RESISTOR 220 1/4	C212	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R785	QRE141J-183Y	CARBON RESISTOR 18K 1/4	C213	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
R796	QRE141J-473Y	CARBON RESISTOR 47K 1/4	C214	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
S601	QSW0454-001	SWITCH	C215	NCB31HK-392X	CERAMIC CAPACITOR 3900PF
SP702	VYH7653-003	IC HOLDER	C217	NCB31HK-821X	CERAMIC CAPACITOR 820PF
SP714	VYH7653-011	IC HOLDER	C218	NCB31HK-331X	CERAMIC CAPACITOR 330PF
X701	QAX0516-0012	CERAMIC RESONATOR 16MHz	C219	NCB31HK-471X	CERAMIC CAPACITOR 470PF
<b>SERVO CONTROL-1, 2 BOARD LVA10047</b>			C221	NCB31HK-271X	CERAMIC CAPACITOR 270PF
C101	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C222	NCB31HK-821X	CERAMIC CAPACITOR 820PF
C102	NEA70JM-476X	ELECTROLYTIC CAPACITOR 6.3V47uF	C223	NCB31HK-821X	CERAMIC CAPACITOR 820PF
C103	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C224	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF
C104	NCS31HJ-560X	CERAMIC CAPACITOR 56PF	C225	NCB11CK-105X	CERAMIC CAPACITOR 1uF
C105	NCS31HJ-101X	CERAMIC CAPACITOR 100PF	C226	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C106	NEA71CM-106X	ELECTROLYTIC CAPACITOR 16V10uF	C227	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C107	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C228	NEA70JM-107X	ELECTROLYTIC CAPACITOR 6.3V100uF
C108	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C229	NCB11CK-105X	CERAMIC CAPACITOR 1uF
C109	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C230	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C110	NCS31HJ-101X	CERAMIC CAPACITOR 100PF	C231	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C111	NCB21CK-184X	CERAMIC CAPACITOR 0.18PF	C232	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C112	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C233	NCB31HJ-330X	CERAMIC CAPACITOR 33PF
C113	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C234	NCB31HK-331X	CERAMIC CAPACITOR 330PF
C114	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C235	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C115	NCB31HK-392X	CERAMIC CAPACITOR 3900PF	C236	NCB31CK-823X	CERAMIC CAPACITOR 0.082uF
C116	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C237	NCB31CK-823X	CERAMIC CAPACITOR 0.082uF
C117	NCB11CK-105X	CERAMIC CAPACITOR 1uF	C241	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C118	NEX40JM-336X	ELECTROLYTIC CAPACITOR 6.3V33uF	C242	NEA70JM-107X	ELECTROLYTIC CAPACITOR 6.3V100uF
C119	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C251	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
			C252	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF

## Parts List 5/8

SYMBOL	PARTS NO.	DESCRIPTION	SYMBOL	PARTS NO.	DESCRIPTION
C253	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C501	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C254	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C502	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C255	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF	C503	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C256	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C504	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C257	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C505	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C258	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF	C506	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C259	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C507	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C261	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C508	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C262	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C509	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C263	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C510	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C264	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C511	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C271	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C512	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C273	NCB31HK-102X	CERAMIC CAPACITOR 1000PF	C513	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C275	NCB31HK-102X	CERAMIC CAPACITOR 1000PF	C514	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C276	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C515	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C281	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF	C516	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C282	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C517	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C284	NCB31CK-102X	CERAMIC CAPACITOR 1000PF	C518	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C286	NCB31CK-102X	CERAMIC CAPACITOR 1000PF	C519	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C287	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C520	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C288	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF	C521	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C291	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C522	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C292	NEA71CM-476X	ELECTROLYTIC CAPACITOR 16V47uF	C523	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C301	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C524	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C302	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C525	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C303	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C526	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C304	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C527	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C305	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C528	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C306	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C529	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C307	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C530	NEA70JM-107X	ELECTROLYTIC CAPACITOR 6.3V100uF
C308	NCB31CK-103X	CERAMIC CAPACITOR 0.01uF	C531	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C309	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C532	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C310	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C533	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C311	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C534	NEA70JM-107X	ELECTROLYTIC CAPACITOR 6.3V100uF
C314	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C535	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C315	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C536	NCB31CK-103X	CERAMIC CAPACITOR 0.01uF
C316	NEA70JM-107X	ELECTROLYTIC CAPACITOR 6.3V100uF	C537	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF
C317	NCB11CK-105X	CERAMIC CAPACITOR 1uF	C538	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C318	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C539	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C319	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C540	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF
C320	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C541	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C321	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C542	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF
C322	NEA70JM-107X	ELECTROLYTIC CAPACITOR 6.3V100uF	C543	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C323	NCB11CK-105X	CERAMIC CAPACITOR 1uF	C551	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C324	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C552	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C341	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C553	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C342	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C554	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C343	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C555	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF
C344	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C556	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C371	NCS31HJ-100X	CERAMIC CAPACITOR 10PF	C557	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C372	NCS31HJ-100X	CERAMIC CAPACITOR 10PF	C558	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF
C373	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C559	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C374	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C561	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C376	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C562	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF
C391	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C563	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C392	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF	C564	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C401	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C565	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C402	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C566	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C405	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C567	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF
C406	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C568	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C407	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C569	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF
C408	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF	C571	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF
C409	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C572	NEX40JM-156X	ELECTROLYTIC CAPACITOR 6.3V15uF
C411	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C6	NCB21CK-104X	CERAMIC CAPACITOR 0.1uF
C412	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	C8	NCB21CK-104X	CERAMIC CAPACITOR 0.1uF
C441	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	CN101	QGF1016C2-37W	CONNECTOR MECHA
C442	NEX40JM-156X	ELECTROLYTIC CAPACITOR 6.3V15uF	CN103	QGF1016C2-07W	CONNECTOR LOADING
C452	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	CN104	QGA2001C2-12X	W TO B CONNECTOR
C491	NCB31CK-104X	CERAMIC CAPACITOR 0.1uF	CN501	QGA2001C2-08X	W TO B CONNECTOR POWER
C492	NEA70JM-226X	ELECTROLYTIC CAPACITOR 6.3V22uF	CN502	QGF1016C2-35W	CONNECTOR SYSTEM

## Parts List 6/8

SYMBOL	PARTS NO.	DESCRIPTION	SYMBOL	PARTS NO.	DESCRIPTION
CN503	QGA2001C2-10X	W TO B CONNECTOR VIDEO	K559	NQR0007-002X	FERRITE BEADS C.M.
D201	1SS355-X	DIODE C.M.	K561	NQR0007-002X	FERRITE BEADS C.M.
D202	1SS355-X	DIODE C.M.	K562	NQR0007-002X	FERRITE BEADS C.M.
D203	1SS355-X	DIODE C.M.	K563	NQR0007-002X	FERRITE BEADS C.M.
D272	DAP202K-X	DIGITAL TRANSISTOR	K564	NQR0007-002X	FERRITE BEADS C.M.
D402	1SS355-X	DIODE C.M.	K565	NQR0007-002X	FERRITE BEADS C.M.
D403	1SS355-X	DIODE C.M.	K566	NQR0007-002X	FERRITE BEADS C.M.
D551	1SS355-X	DIODE C.M.	K567	NQR0007-002X	FERRITE BEADS C.M.
D552	1SS355-X	DIODE C.M.	K568	NQR0007-002X	FERRITE BEADS C.M.
IC101	AN8706FHQ	IC	K569	NQR0007-002X	FERRITE BEADS C.M.
IC102	RN5RZ20BA-X	IC	K570	NQR0007-002X	FERRITE BEADS C.M.
IC201	MN67705EA	IC	K571	NQR0007-002X	FERRITE BEADS C.M.
IC251	AN8485SB-W	IC	K572	NQR0007-002X	FERRITE BEADS C.M.
IC271	BA5983FM-X	IC	K573	NQR0007-002X	FERRITE BEADS C.M.
IC301	MN103007BGA	IC	K574	NQR0007-002X	FERRITE BEADS C.M.
IC311	TC7SH08FU-X	IC	K575	NQR0007-002X	FERRITE BEADS C.M.
IC312	TC7SH32FU-X	IC	K576	NQR0007-002X	FERRITE BEADS C.M.
IC321	TC7WH74FU-X	IC	K577	NQR0007-002X	FERRITE BEADS C.M.
IC322	TC74VHCO0FT-X	IC	K578	NQR0007-002X	FERRITE BEADS C.M.
IC371	TC7SHU04FU-X	IC (DIGITAL)	K579	NQR0007-002X	FERRITE BEADS C.M.
IC372	TC7SHU04FU-X	IC (DIGITAL)	K581	NQR0007-002X	FERRITE BEADS C.M.
IC374	TC7WH74FU-X	IC	K582	NQR0007-002X	FERRITE BEADS C.M.
IC401*	MN102L25GCP	IC (IC402 PAIR)	K583	NQR0007-002X	FERRITE BEADS C.M.
IC401*	MN102L25GCZ	IC (after S/N 0061001)	K584	NQR0007-002X	FERRITE BEADS C.M.
IC402*	MSM27C1602CZ61X	IC (IC401 PAIR)	K585	NQR0007-002X	FERRITE BEADS C.M.
IC402*	MSM531622F61G-X	IC (after S/N 0061001)	K586	NQR0007-002X	FERRITE BEADS C.M.
IC403	AK93C65AF-X	IC	K587	NQR0007-002X	FERRITE BEADS C.M.
IC452	TC7WT125FU-X	IC (DIGITAL)	K589	NQR0007-002X	FERRITE BEADS C.M.
IC501	ZIVA3-PA1	IC	K590	NQR0007-002X	FERRITE BEADS C.M.
IC502	NAX0265-001X	CRYSTAL 27MHZ	K591	NQR0007-002X	FERRITE BEADS C.M.
IC503	TC74VHCO0FT-X	IC	K592	NQR0007-002X	FERRITE BEADS C.M.
IC504	HY57V161610DTC8	IC	L191	NQL044K-100X	INDUCTOR C.M
IC505	HY57V161610DTC8	IC	L241	NQL044K-100X	INDUCTOR C.M
IC551	JCE8011	IC (DIGITAL)	Q101	2SB1424/QR/-X	TRANSISTOR
IC552	UPD42280GU-30-X	IC	Q102	DTC124EE-X	DIGI TRANSISTOR
IC553	MSM531622F56G-X	IC	Q103	DTC124EE-X	DIGI TRANSISTOR
IC554	MC44724AVFU	IC	Q104	DTC124EE-X	DIGI TRANSISTOR
IC555	MC33269D-X	IC	Q105	DTC144EE-X	TRANSISTOR
K101	NQR0007-002X	FERRITE BEADS C.M.	Q251	DTC144EE-X	TRANSISTOR
K102	NQR0007-002X	FERRITE BEADS C.M.	Q252	DTC144EE-X	TRANSISTOR
K103	NQR0007-002X	FERRITE BEADS C.M.	Q253	DTC144EE-X	TRANSISTOR
K155	NQR0007-002X	FERRITE BEADS C.M.	Q254	DTC144EE-X	TRANSISTOR
K156	NQR0007-002X	FERRITE BEADS C.M.	Q255	DTC144EE-X	TRANSISTOR
K157	NQR0007-002X	FERRITE BEADS C.M.	R101	NRS125J-270X	MG RESISTOR 27
K158	NQR0007-002X	FERRITE BEADS C.M.	R102	NRS125J-2R2X	MG RESISTOR 2.2
K159	NQR0007-002X	FERRITE BEADS C.M.	R103	NRSA63J-123X	MG RESISTOR 12K
K160	NQR0007-002X	FERRITE BEADS C.M.	R104	NRSA63J-103X	MG RESISTOR 10K
K201	NQR0007-002X	FERRITE BEADS C.M.	R106	NRSA63J-223X	MG RESISTOR 22K
K202	NQR0007-002X	FERRITE BEADS C.M.	R108	NRSA63J-103X	MG RESISTOR 10K
K251	NQR0007-002X	FERRITE BEADS C.M.	R109	NRSA63J-823X	MG RESISTOR 82K
K271	NQR0007-002X	FERRITE BEADS C.M.	R110	NRSA63J-393X	MG RESISTOR 39K
K301	NQR0007-002X	FERRITE BEADS C.M.	R112	NRVA63D-123X	MG RESISTOR 12K
K302	NQR0007-002X	FERRITE BEADS C.M.	R113	NRSA63J-393X	MG RESISTOR 39K
K371	NQR0007-002X	FERRITE BEADS C.M.	R114	NRSA63J-272X	MG RESISTOR 27K
K401	NQR0007-002X	FERRITE BEADS C.M.	R115	NRSA63J-223X	MG RESISTOR 22K
K402	NQR0007-002X	FERRITE BEADS C.M.	R116	NRSA63J-103X	MG RESISTOR 10K
K501	NQR0007-002X	FERRITE BEADS C.M.	R117	NRSA63J-223X	MG RESISTOR 22K
K502	NQR0007-002X	FERRITE BEADS C.M.	R118	NRSA63J-153X	MG RESISTOR 15K
K503	NQR0007-002X	FERRITE BEADS C.M.	R119	NRSA63J-155X	MG RESISTOR 1.5M
K504	NQR0201-001X	FERRITE BEADS C.M.	R120	NRVA63D-332X	METAL FILM RESISTOR 3.3K
K505	NQR0269-001X	FERRITE BEADS C.M.	R121	NRSA63J-474X	MG RESISTOR 470K
K550	NQR0007-002X	FERRITE BEADS C.M.	R122	NRSA63J-474X	MG RESISTOR 470K
K551	NQR0007-002X	FERRITE BEADS C.M.	R123	NRSA63J-822X	MG RESISTOR 8.2K
K552	NQR0007-002X	FERRITE BEADS C.M.	R124	NRSA63J-183X	MG RESISTOR 18K
K553	NQR0007-002X	FERRITE BEADS C.M.	R125	NRSA63J-154X	MG RESISTOR 150K
K554	NQR0007-002X	FERRITE BEADS C.M.	R126	NRSA63J-564X	MG RESISTOR 560K
K555	NQR0007-002X	FERRITE BEADS C.M.	R127	NRSA63J-123X	MG RESISTOR 12K
K556	NQR0007-002X	FERRITE BEADS C.M.	R128	NRSA63J-223X	MG RESISTOR 22K
K557	NQR0007-002X	FERRITE BEADS C.M.	R129	NRSA63J-103X	MG RESISTOR 10K
K558	NQR0007-002X	FERRITE BEADS C.M.	R130	NRSA63J-822X	MG RESISTOR 8.2K

## Parts List 7/8

SYMBOL	PARTS NO.	DESCRIPTION	SYMBOL	PARTS NO.	DESCRIPTION
R131	NRSA63J-0R0X	MG RESISTOR 0	R271	NRSA63J-243X	MG RESISTOR 24K
R151	NRSA63J-0R0X	MG RESISTOR 0	R272	NRSA63J-103X	MG RESISTOR 10K
R152	NRSA63J-0R0X	MG RESISTOR 0	R273	NRSA63J-103X	MG RESISTOR 10K
R153	NRSA63J-0R0X	MG RESISTOR 0	R274	NRSA63J-0R0X	MG RESISTOR 0
R154	NRSA63J-0R0X	MG RESISTOR 0	R275	NRSA63J-243X	MG RESISTOR 24K
R201	NRSA63J-102X	MG RESISTOR 1K	R276	NRSA63J-103X	MG RESISTOR 10K
R202	NRSA63J-102X	MG RESISTOR 1K	R277	NRSA63J-103X	MG RESISTOR 10K
R203	NRSA63J-102X	MG RESISTOR 1K	R278	NRSA63J-0R0X	MG RESISTOR 0
R204	NRSA63J-102X	MG RESISTOR 1K	R279	NRSA63J-473X	MG RESISTOR 47K
R205	NRSA63J-473X	MG RESISTOR 47K	R280	NRSA63J-0R0X	MG RESISTOR 0
R206	NRSA63J-102X	MG RESISTOR 1K	R282	NRSA63J-273X	MG RESISTOR 27K
R207	NRSA63J-473X	MG RESISTOR 47K	R283	NRSA63J-103X	MG RESISTOR 10K
R208	NRSA63J-102X	MG RESISTOR 1K	R284	NRSA63J-103X	MG RESISTOR 10K
R209	NRSA63J-473X	MG RESISTOR 47K	R285	NRSA63J-0R0X	MG RESISTOR 0
R210	NRSA63J-473X	MG RESISTOR 47K	R286	NRSA63J-273X	MG RESISTOR 27K
R211	NRSA63J-102X	MG RESISTOR 1K	R287	NRSA63J-103X	MG RESISTOR 10K
R212	NRSA63J-102X	MG RESISTOR 1K	R288	NRSA63J-103X	MG RESISTOR 10K
R213	NRSA63J-183X	MG RESISTOR 18K	R289	NRSA63J-0R0X	MG RESISTOR 0
R214	NRSA63J-822X	MG RESISTOR 8.2K	R290	NRSA63J-0R0X	MG RESISTOR 0
R215	NRSA63J-473X	MG RESISTOR 47K	R301	NRSA63J-473X	MG RESISTOR 47K
R216	NRSA63J-473X	MG RESISTOR 47K	R302	NRSA63J-473X	MG RESISTOR 47K
R217	NRSA63J-0R0X	MG RESISTOR 0	R303	NRSA63J-473X	MG RESISTOR 47K
R218	NRSA63J-0R0X	MG RESISTOR 0	R304	NRSA63J-473X	MG RESISTOR 47K
R219	NRSA63J-0R0X	MG RESISTOR 0	R305	NRSA63J-473X	MG RESISTOR 47K
R220	NRSA63J-472X	MG RESISTOR 4.7K	R306	NRSA63J-473X	MG RESISTOR 47K
R221	NRSA63J-0R0X	MG RESISTOR 0	R307	NRSA63J-473X	MG RESISTOR 47K
R222	NRSA63J-0R0X	MG RESISTOR 0	R308	NRSA63J-473X	MG RESISTOR 47K
R223	NRSA63J-0R0X	MG RESISTOR 0	R310	NRSA63J-102X	MG RESISTOR 1K
R224	NRSA63J-0R0X	MG RESISTOR 0	R311	NRSA63J-102X	MG RESISTOR 1K
R225	NRSA63J-0R0X	MG RESISTOR 0	R312	NRSA63J-102X	MG RESISTOR 1K
R226	NRSA63J-0R0X	MG RESISTOR 0	R313	NRSA63J-0R0X	MG RESISTOR 0
R227	NRSA63J-0R0X	MG RESISTOR 0	R314	NRSA63J-0R0X	MG RESISTOR 0
R228	NRSA63J-103X	MG RESISTOR 10K	R317	NRSA63J-473X	MG RESISTOR 47K
R229	NRSA63J-0R0X	MG RESISTOR 0	R318	NRSA63J-0R0X	MG RESISTOR 0
R230	NRSA63J-103X	MG RESISTOR 10K	R319	NRSA63J-0R0X	MG RESISTOR 0
R231	NRVA63D-683X	METAL FILM RESISTOR 68K	R322	NRSA63J-473X	MG RESISTOR 47K
R232	NRVA63D-683X	METAL FILM RESISTOR 68K	R324	NRSA63J-473X	MG RESISTOR 47K
R233	NRSA63J-103X	MG RESISTOR 10K	R328	NRSA63J-473X	MG RESISTOR 47K
R234	NRSA63J-103X	MG RESISTOR 10K	R342	NRSA63J-0R0X	MG RESISTOR 0
R235	NRSA63J-473X	MG RESISTOR 47K	R343	NRSA63J-102X	MG RESISTOR 1K
R236	NRSA63J-123X	MG RESISTOR 12K	R371	NRSA63J-105X	MG RESISTOR 1M
R237	NRSA63J-0R0X	MG RESISTOR 0	R372	NRSA63J-101X	MG RESISTOR 100
R238	NRSA63J-223X	MG RESISTOR 22K	R373	NRSA63J-0R0X	MG RESISTOR 0
R239	NRSA63J-333X	MG RESISTOR 33K	R401	NRSA63J-102X	MG RESISTOR 1K
R240	NRSA63J-333X	MG RESISTOR 33K	R402	NRSA63J-102X	MG RESISTOR 1K
R241	NRVA63D-362X	MG RESISTOR 3.6K	R403	NRSA63J-472X	MG RESISTOR 4.7K
R242	NRSA63J-102X	MG RESISTOR 1K	R405	NRSA63J-472X	MG RESISTOR 4.7K
R243	NRSA63J-472X	MG RESISTOR 4.7K	R408	NRSA63J-472X	MG RESISTOR 4.7K
R244	NRSA63J-102X	MG RESISTOR 1K	R410	NRSA63J-0R0X	MG RESISTOR 0
R245	NRVA63D-103X	METAL FILM RESISTOR 10K	R411	NRSA63J-472X	MG RESISTOR 4.7K
R246	NRVA63D-183X	MG RESISTOR 18K	R412	NRSA63J-472X	MG RESISTOR 4.7K
R247	NRVA63D-103X	METAL FILM RESISTOR 10K	R413	NRSA63J-472X	MG RESISTOR 4.7K
R248	NRVA63D-183X	MG RESISTOR 18K	R414	NRSA63J-472X	MG RESISTOR 4.7K
R249	NRSA63J-102X	MG RESISTOR 1K	R415	NRSA63J-472X	MG RESISTOR 4.7K
R251	NRSA63J-271X	MG RESISTOR 2.7K	R416	NRSA63J-472X	MG RESISTOR 4.7K
R252	NRSA63J-271X	MG RESISTOR 2.7K	R418	NRSA63J-472X	MG RESISTOR 4.7K
R253	NRSA63J-0R0X	MG RESISTOR 0	R420	NRSA63J-0R0X	MG RESISTOR 0
R254	NRSA63J-0R0X	MG RESISTOR 0	R422	NRSA63J-0R0X	MG RESISTOR 0
R255	NRSA63J-103X	MG RESISTOR 10K	R423	NRSA63J-0R0X	MG RESISTOR 0
R256	NRSA63J-103X	MG RESISTOR 10K	R424	NRSA63J-0R0X	MG RESISTOR 0
R257	NRSA63J-103X	MG RESISTOR 10K	R431	NRSA63J-472X	MG RESISTOR 4.7K
R258	NRSA63J-103X	MG RESISTOR 10K	R432	NRSA63J-472X	MG RESISTOR 4.7K
R259	NRSA63J-103X	MG RESISTOR 10K	R461	NRSA63J-0R0X	MG RESISTOR 0
R260	NRSA63J-562X	MG RESISTOR 5.6K	R462	NRSA63J-0R0X	MG RESISTOR 0
R261	NRSA63J-563X	MG RESISTOR 56K	R491	NRSA63J-472X	MG RESISTOR 4.7K
R262	NRS125J-R47X	MG RESISTOR 0.47	R492	NRSA63J-472X	MG RESISTOR 4.7K
R263	NRSA63J-103X	MG RESISTOR 10K	R501	NRSA63J-102X	MG RESISTOR 1K
R264	NRSA63J-103X	MG RESISTOR 10K	R502	NRSA63J-222X	MG RESISTOR 2.2K
R267	NRSA63J-103X	MG RESISTOR 10K	R503	NRSA63J-103X	MG RESISTOR 10K
R268	NRS181J-2R2X	MG RESISTOR 2.2	R504	NRSA63J-330X	MG RESISTOR 33

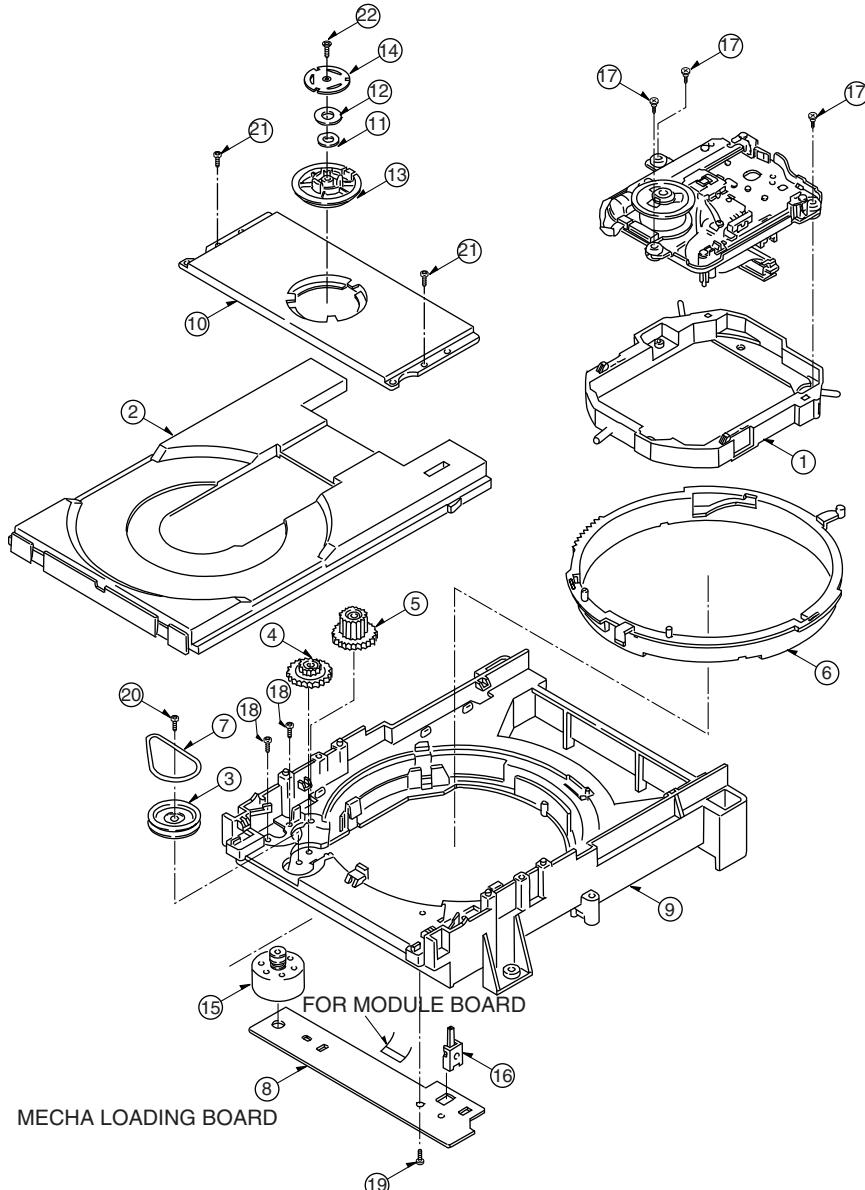
## Parts List 8/8

SYMBOL	PARTS NO.	DESCRIPTION	SYMBOL	PARTS NO.	DESCRIPTION
R505	NRSA63J-330X	MG RESISTOR 33	R582	NRSA3J-0R0X	MG RESISTOR 0
R506	NRSA63J-330X	MG RESISTOR 33	R583	NRVA63D-471X	CMF RESISTOR 470
R507	NRSA63J-330X	MG RESISTOR 33	R584	NRVA63D-103X	METAL FILM RESISTOR 10K
R508	NRSA63J-330X	MG RESISTOR 33	R585	NRVA63D-471X	CMF RESISTOR 470
R509	NRSA63J-330X	MG RESISTOR 33	X371	NAX0277-002X	CRYSTAL 33.85MHz
R510	NRSA63J-330X	MG RESISTOR 33	X401	NAX0331-001X	CERAMIC RESONATOR 13.5MHz
R511	NRSA63J-330X	MG RESISTOR 33	<b>CONNECTION BOARD LVA10046</b>		
R512	NRSA63J-330X	MG RESISTOR 33	C17	NCS31HJ-101X	CERAMIC CAPACITOR 100PF
R513	NRSA63J-330X	MG RESISTOR 33	C18	NCS31HJ-101X	CERAMIC CAPACITOR 100PF
R514	NRSA63J-330X	MG RESISTOR 33	C19	NCS31HJ-101X	CERAMIC CAPACITOR 100PF
R515	NRSA63J-330X	MG RESISTOR 33	CN11	QGF1016F2-37W	CONNECTOR TO MAIN
R516	NRSA63J-330X	MG RESISTOR 33	CN12	QGF1016C2-21W	CONNECTOR TO MECHA
R517	NRSA63J-330X	MG RESISTOR 33	CN13	QGF1016F2-17W	CONNECTOR TO MECHA
R518	NRSA63J-330X	MG RESISTOR 33	K11	NQR0265-003X	FERRITE BEADS
R519	NRSA63J-330X	MG RESISTOR 33	K12	NQR0265-003X	FERRITE BEADS
R520	NRSA63J-330X	MG RESISTOR 33	K13	NQR0265-003X	FERRITE BEADS
R521	NRSA63J-330X	MG RESISTOR 33	K14	NQR0265-003X	FERRITE BEADS
R522	NRSA63J-330X	MG RESISTOR 33	K15	NQR0265-003X	FERRITE BEADS
R523	NRSA63J-181X	MG RESISTOR 180	K16	NQR0265-002X	FERRITE BEADS
R524	NRSA63J-181X	MG RESISTOR 180	K21	NQR0265-003X	FERRITE BEADS
R525	NRSA63J-181X	MG RESISTOR 180	K22	NQR0265-003X	FERRITE BEADS
R526	NRSA63J-181X	MG RESISTOR 180	R21	NRSA3J-0R0X	MG RESISTOR 0
R527	NRSA63J-181X	MG RESISTOR 180	R23	NRSA3J-0R0X	MG RESISTOR 0
R528	NRSA63J-181X	MG RESISTOR 180	R24	NRSA3J-0R0X	MG RESISTOR 0
R529	NRSA63J-181X	MG RESISTOR 180	R25	NRSA3J-0R0X	MG RESISTOR 0
R530	NRSA63J-181X	MG RESISTOR 180	R26	NRSA3J-0R0X	MG RESISTOR 0
R531	NRSA63J-330X	MG RESISTOR 33	R28	NRSA3J-0R0X	MG RESISTOR 0
R532	NRSA3J-0R0X	MG RESISTOR 0	R30	NRSA3J-0R0X	MG RESISTOR 0
R533	NRSA63J-330X	MG RESISTOR 33	R31	NRSA3J-0R0X	MG RESISTOR 0
R534	NRSA63J-330X	MG RESISTOR 33	<b>O T H E R S</b>		
R535	NRSA63J-330X	MG RESISTOR 33	505 FRDV-985	FRONT PANEL ASSY	
R536	NRSA63J-330X	MG RESISTOR 33	LV31781-002A	PUSH BUTTON (A) (Play, Open / Close)	
R537	NRSA63J-330X	MG RESISTOR 33	LV31782-002A	PUSH BUTTON (B) (Stop / Pause)	
R538	NRSA63J-330X	MG RESISTOR 33	LV31783-002A	PUSH BUTTON (C) (Track)	
R539	NRSA63J-330X	MG RESISTOR 33	E307427-004	FOOT ASSY	
R540	NRSA63J-330X	MG RESISTOR 33	072 4TR-670#4	POWER CORD (U.S.A)	
R541	NRSA3J-0R0X	MG RESISTOR 0	072 4TR-1037	POWER CORD (Europe)	
R542	NRSA3J-0R0X	MG RESISTOR 0	072 C-4572A02	POWER CORD (U.K)	
R543	NRSA3J-0R0X	MG RESISTOR 0	072 C-3763	POWER CORD (Australia)	
R544	NRSA3J-0R0X	MG RESISTOR 0	012 SK4-06A00	33F SHUTTLE KNOB	
R545	NRSA63J-472X	MG RESISTOR 4.7	E209102-001	TOP COVER	
R546	NRSA63J-332X	MG RESISTOR 3.3K	LV20559-001A	CARTON BOX	
R547	NRSA63J-222X	MG RESISTOR 2.2K	LV20658-001A	CUSHION (F)	
R548	NRSA63J-332X	MG RESISTOR 3.3K	LV20659-001A	CUSHION (R)	
R550	NRSA3J-0R0X	MG RESISTOR 0	PEAC0359-120	AV CORD 3P	
R554	NRSA3J-0R0X	MG RESISTOR 0	QAM0004-002	S-VIDEO CORD	
R555	NRSA3J-0R0X	MG RESISTOR 0	QAM0006-002	OPTICAL CORD	
R557	NRSA3J-0R0X	MG RESISTOR 0	RR-DV91	REMOCON UNIT	
R558	NRSA63J-102X	MG RESISTOR 1K			
R559	NRSA3J-0R0X	MG RESISTOR 0			
R561	NRVA63D-221X	MMF RESISTOR 220			
R562	NRVA63D-221X	MMF RESISTOR 220			
R563	NRVA63D-271X	CMF RESISTOR 270			
R564	NRVA63D-152X	METAL FILM RESISTOR 1.5K			
R565	NRVA63D-332X	METAL FILM RESISTOR 3.3K			
R567	NRSA3J-0R0X	MG RESISTOR 0			
R568	NRVA63D-221X	MMF RESISTOR 220			
R569	NRVA63D-221X	MMF RESISTOR 220			
R570	NRVA63D-221X	MMF RESISTOR 220			
R571	NRSA63J-100X	MG RESISTOR 10			
R572	NRSA63J-181X	MG RESISTOR 180			
R573	NRSA63J-181X	MG RESISTOR 180			
R574	NRSA63J-181X	MG RESISTOR 180			
R575	NRSA63J-181X	MG RESISTOR 180			
R576	NRSA63J-181X	MG RESISTOR 180			
R577	NRSA63J-181X	MG RESISTOR 180			
R578	NRSA63J-181X	MG RESISTOR 180			
R579	NRSA63J-181X	MG RESISTOR 180			
R580	NRSA63J-181X	MG RESISTOR 180			
R581	NRSA63J-101X	MG RESISTOR 100			

# DVD Mechanism Unit and Parts List

Block No. M2MM

1/2  
FLM-V3



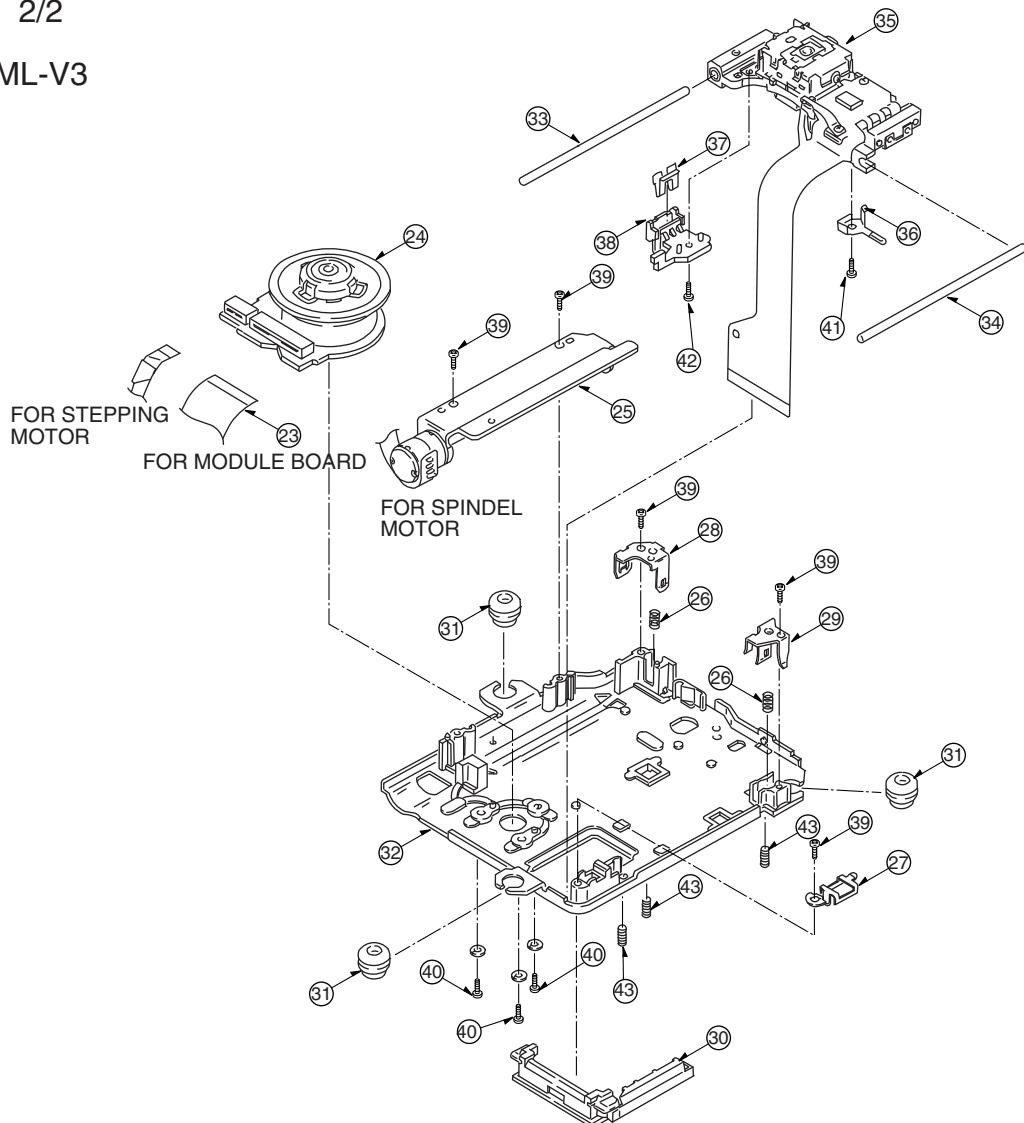
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
1	Chassis	GMVMD3270		1	
2	Tray	GMVMD3265		1	
3	Pulley gear	GMVDG1308		1	
4	Drive gear 1	GMVDG1309		1	
5	Drive gear 2	GMVDG1310		1	
6	UP DOWN cam	GMVDK0156		1	
7	Belt	GMVDV0373		1	
8	Mecha roading p.c.Board	-----		1	
9	Roading Base	GMVMD3266		1	
10	Clampe base	GMVMD3263		1	
11	Magnet	GMJSM0048		1	
12	Clamp back yoke	GMVMA9535		1	
13	Clamper	GMVMD3264		1	
14	Clamper weight	GMVMA0B93		1	
15	Roading motor unit	GMVEM0664		1	
16	Twin switch	GMVSH0170		1	
17	Screw 1	GMVHD1223		3	
18	Screw 2	GMXQNQC17+3		2	
19	Screw 3	GMXTV3+10G		1	
20	Screw 4	GMXTW2+12T		1	
21	Screw 5	GMXTV3+10G		2	
22	Screw 6	GMXTS3+6J		1	

# DVD Mechanism Unit and Parts List

Block No. M2MM

2/2

FML-V3



REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
23	Spindle FFC	GMVWJ1277		1	
24	Spindle motor unit	GMVEM0665		1	
25	Stepping motor unit	GMVEM0666		1	
26	Tilt spring 1	GMVMB3278		2	
27	Tilt spring 2	GMVMC1487		1	
28	Spring suppresses 1	GMVMC1488		1	
29	Spring suppresses 2	GMVMC1489		1	
30	FPC holder	GMVMD3261		1	
31	Floating rubber	GMVMG1166		3	
32	Traverse shasshis	GMVMK0474		1	
33	Guide shaft 1	GMVMS6471		1	
34	Guide shaft 2	GMVMS6472		1	
35	Optical pick up	GMVED0402		1	
36	Spring	GMVMC1491		1	
37	Nut spring	GMVMC1490		1	
38	Nut	GMVMD3260		1	
39	Screw 1	GMVHD1224		5	
40	Screw 2	GMVHD1225		3	
41	Screw 3	GMVHD1057		1	
42	Screw 4	GMXQNQC17+3		1	
43	Screw 5	GMXXE26C6FN		3	

# Main Adjustment

Adjustment and confirmation matter

## (1) Auto adjustment method

If microprocessor (IC401, IC402, IC714, IC716) or servo board (LEA10047) is replaced, initialize the DVD player in the following matter:

1. Initialize the DVD player in the following matter:

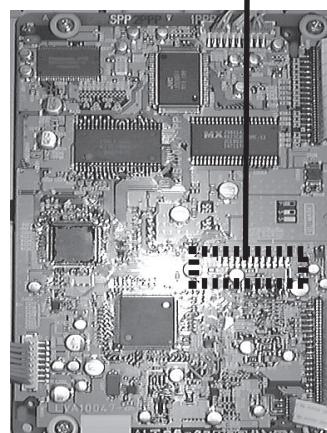
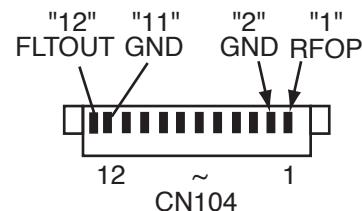
- 1) Make sure that no disc is on the tray.
- 2) Insert the power plug to the outlet while pressing "PLAY" and "OPEN/CLOSE" button at the same time.  
FL Display indicate "TEST \* \* ¥". \* \* ; Version.
- 3) Press 3D-PHONIC button. And EEPROM initialize start.
- 4) When indicate "96kHz SAMPLING" on the display, initialize finished.
- 5) Press the "OPEN/CLOSE" button to move the tray outward.
- 6) Put the Test Disc (VT-502) on the tray and press "OPEN/CLOSE" button.  
The tray should move inward (Note: Don't push to close the tray directly by hand etc.)
- 7) Press the "ON SCREEN" button. Disc rolling and then stop soon.
- 8) Press the "PLAY" button.
- 9) Check Jitter level should be less than 11% of TIA (Time Interval Analyzer).

Note: Confirm abnormality is not found in the image and the voice output if there is no TIA.

If Jitter level is NG. Stop the playback and check jitter level again to do 8), 9).

## (2) Confirmation of DVD RF level

1. The oscilloscope is connected between "1"(RFOP) of CN104 and "2"(GND).
2. Reproduction of the test disc ( VT-502) made by JVC.
3. It is confirmed that RF LEVEL is  $350\text{mVp-p} \pm 150\text{mVp-p}$ .
4. When there is disorder in the waveform road cuts etc, test disk is exchanged and measured.



DVD SERVO CONTROL PWB

## (3) Confirmation of CD jitter level and RF level

1. The CD jitter meter is connected between "11"(GND) of CN104 and "12"(FLTOUT).  
The RF level is observed at the same time.
2. The first test disk (CTS-1000) made of JVC is reproduced.
3. It is confirmed that RF LEVEL is  $360 \pm 100\text{mVp-p}$ .
5. When there is disorder in the waveform road cuts etc, test disk is exchanged and measured.

FRONT SIDE