

# Service Manual

## DVD Stereo System



Remote Control

SB-VK62

SA-VK62D

SB-VK62

### SA-VK62DGC SA-VK62DGS SA-VK62DGCS

Colour

(S)... Silver Type

## Specifications

### ■ AMPLIFIER SECTION

RMS Output Power Stereo Mode both channels driven: 10 %

Total Harmonic Distortion

1 kHz Front CH 110 W per channel (4  $\Omega$ )

Total RMS Stereo mode power 220 W

PMPO output power 2400 W

### ■ FM/AM TUNER, TERMINALS SECTION

Preset station FM 15 stations

AM 15 stations

Frequency Modulation (FM)

Frequency range 87.50 - 108.00 MHz (50 kHz step)

Sensitivity 2.5  $\mu$ V (IHF)S/N 26dB 2.2  $\mu$ VAntenna terminals 75  $\Omega$  (unbalanced)

Amplitude Modulation (AM)

Frequency range 522 - 1629 kHz (9 kHz step)

520 - 1630 kHz (10 kHz step)

AM Sensitivity S/N 20dB at 1000 kHz

560  $\mu$ V/m

Audio performance (Amplifier)

Input sensitivity/Input impedance

Aux 250 mV, 12 k $\Omega$ 

Digital audio output

Optical digital output Optical terminal

Phone jack

Terminal Stereo, 3.5 mm jack

Mic jack

Sensitivity 0.7 mV, 600  $\Omega$ 

Terminal Mono, 6.3 mm jack (2 system)

### ■ CASSETTE DECK SECTION

Type Auto-Reverse

Track system 4-Track, 2 Channel

Heads

Record/playback Solid permalloy head

Erasure Double gap ferrite head

Motor DC servo motor

Recording system AC bias 100 kHz

Erasing system AC erase 100 kHz

Tape speed 4.8 cm/s

Overall frequency response (+3, -6 dB) at DECK OUT

Normal 35 Hz - 14 kHz

S/N ratio 50 dB (A weighted)

Wow and flutter 0.18 % (WRMS)

Fast forward and rewind time Approx. 120 seconds with

C-60 cassette tape

### ■ DISC SECTION

Disc played [8 cm or 12 cm]

(1) DVD (DVD-Video)

(2) DVD-RAM (DVD-VR, JPEG<sup>4</sup>,<sup>5</sup>)

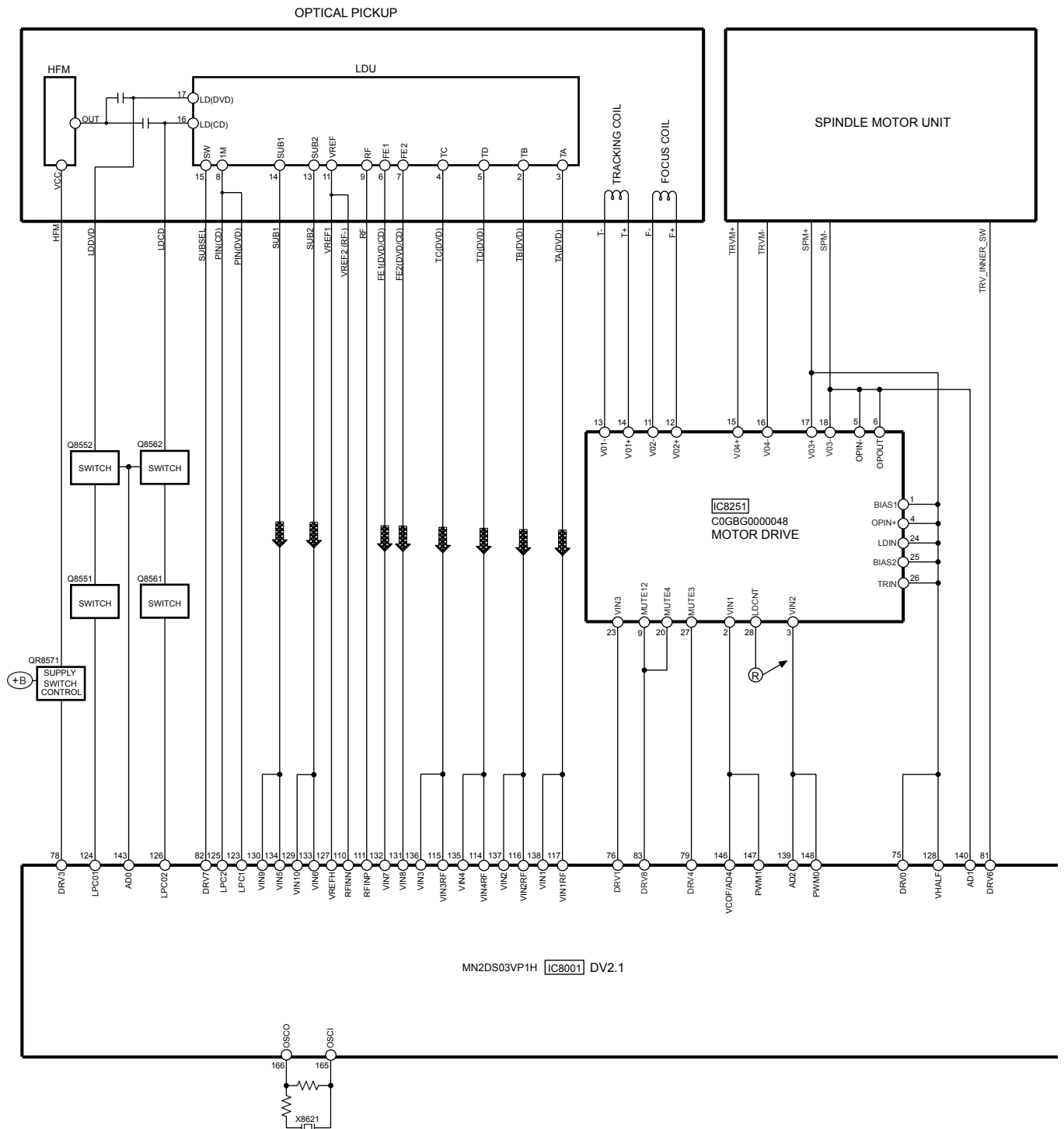
(3) DVD-R/RW (DVD-Video)

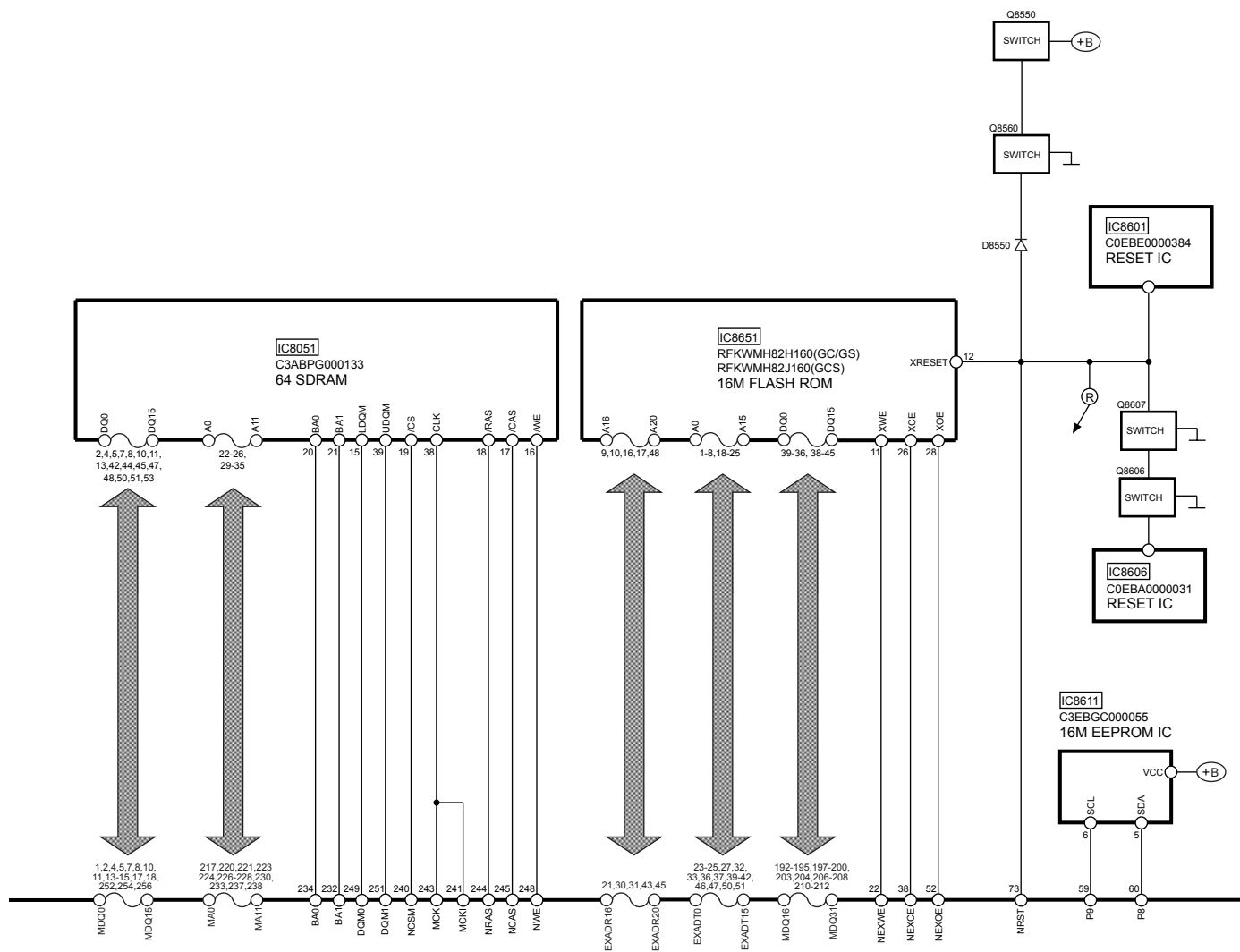
+R/RW (Video)

# Panasonic

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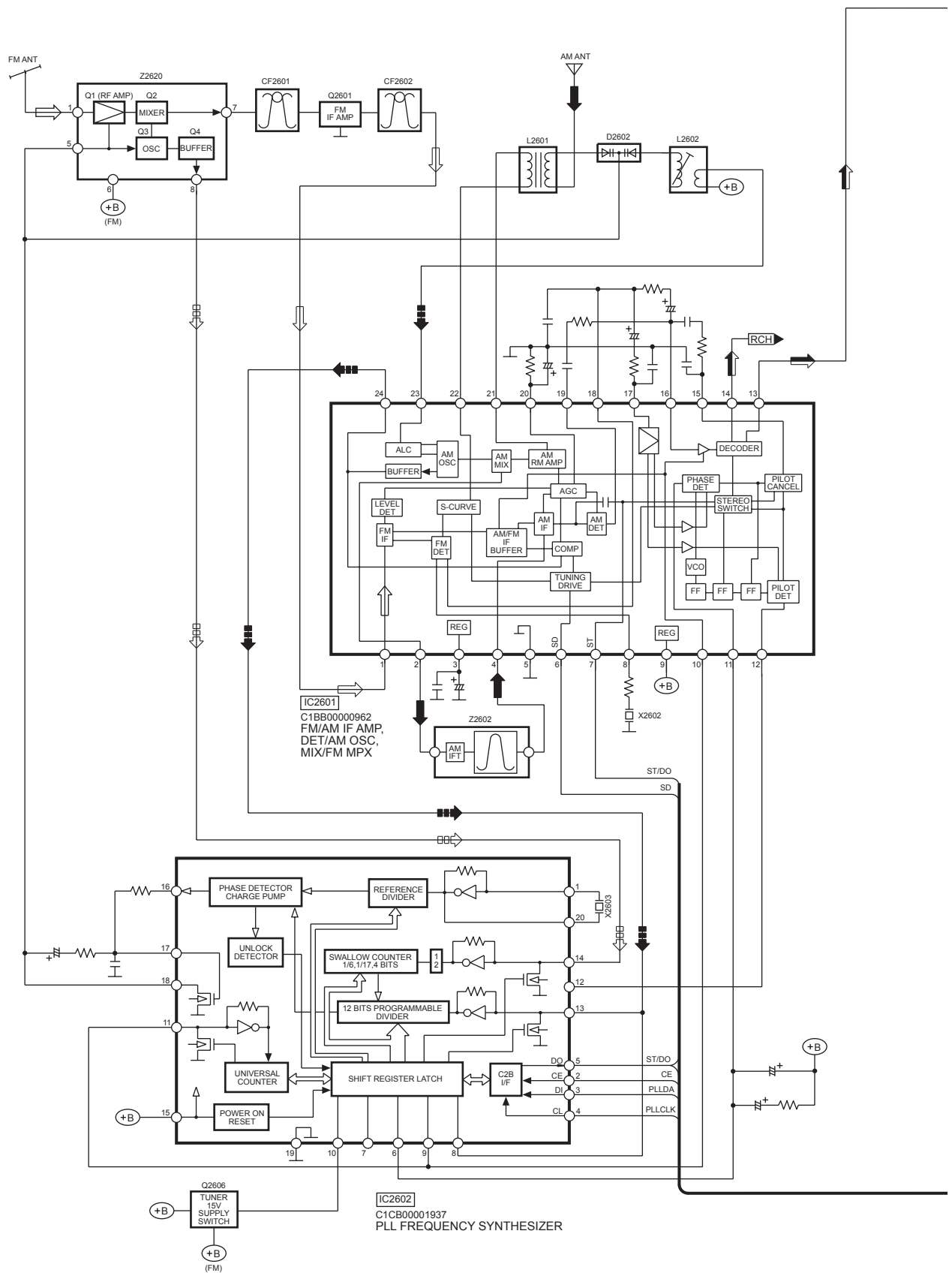
## 20 Block Diagram

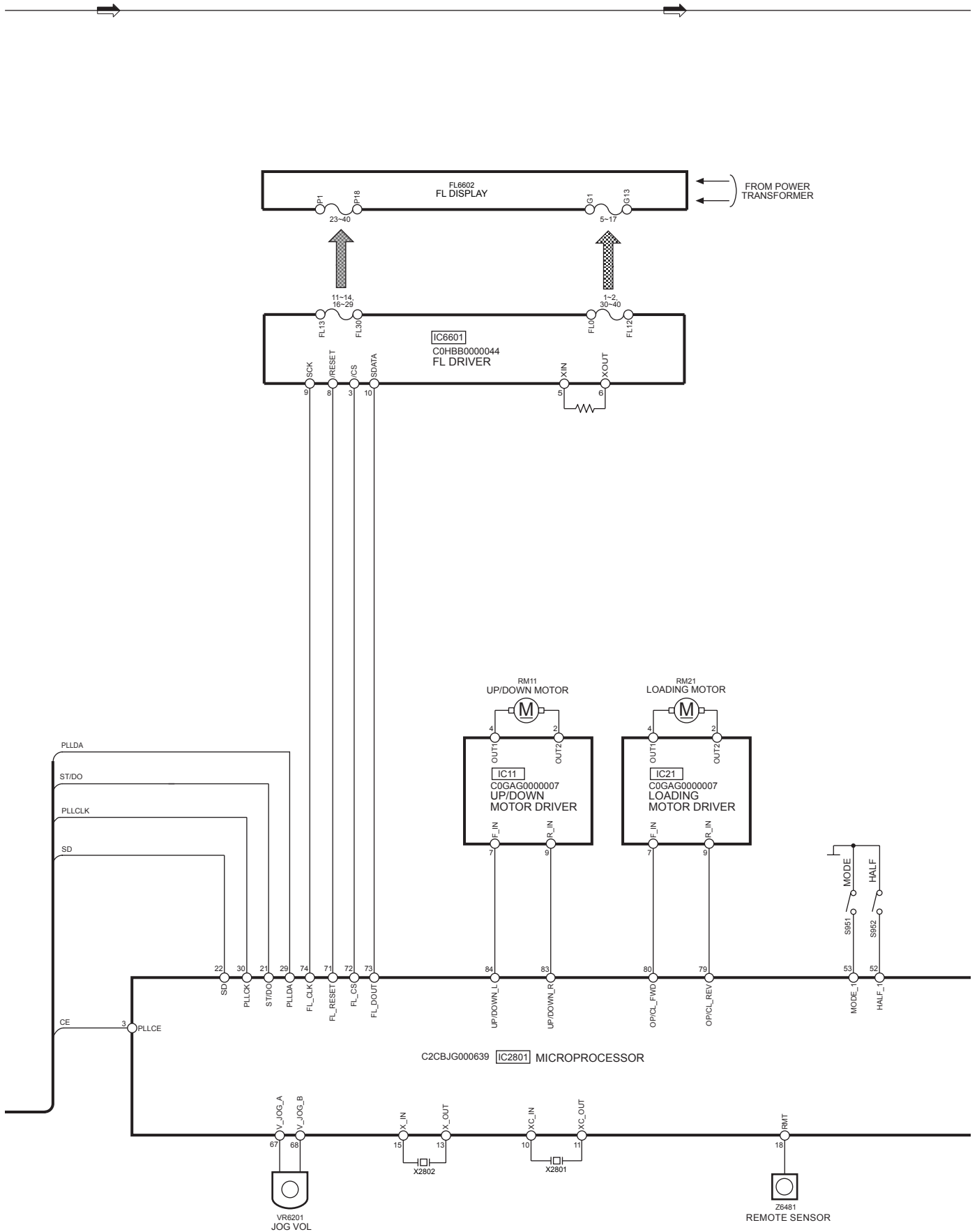


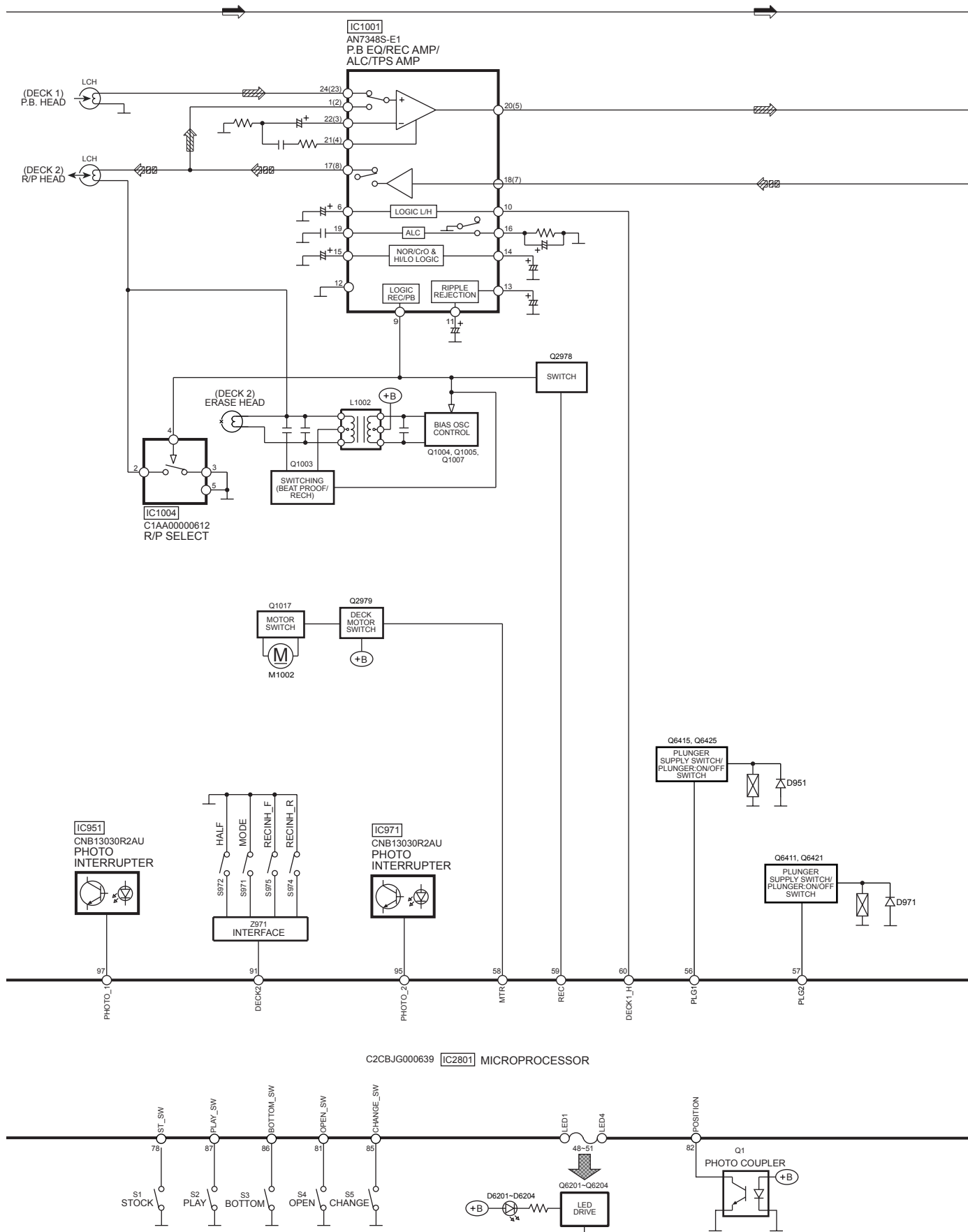


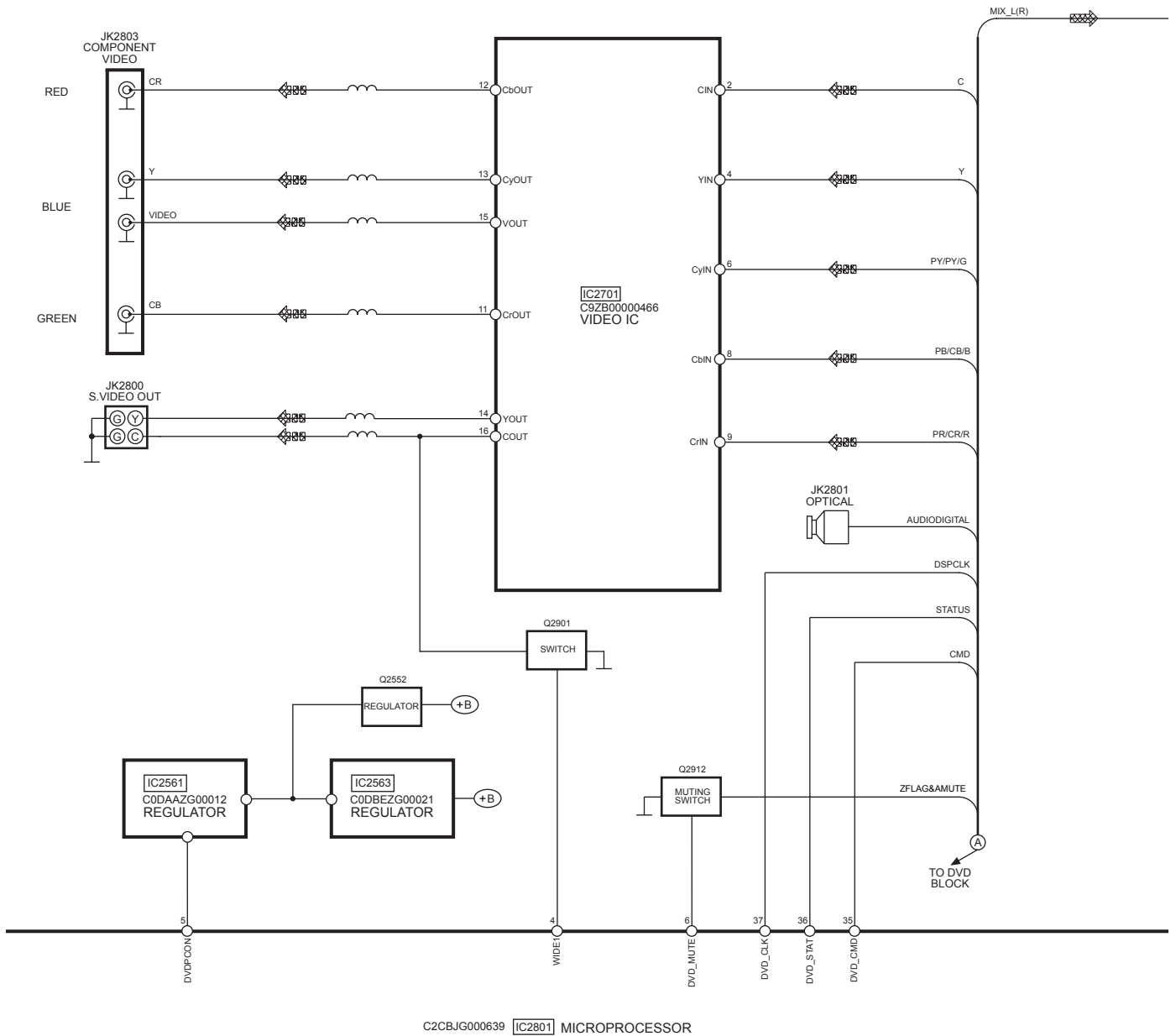
MN2DS03VP1H [IC8001] DV2.1



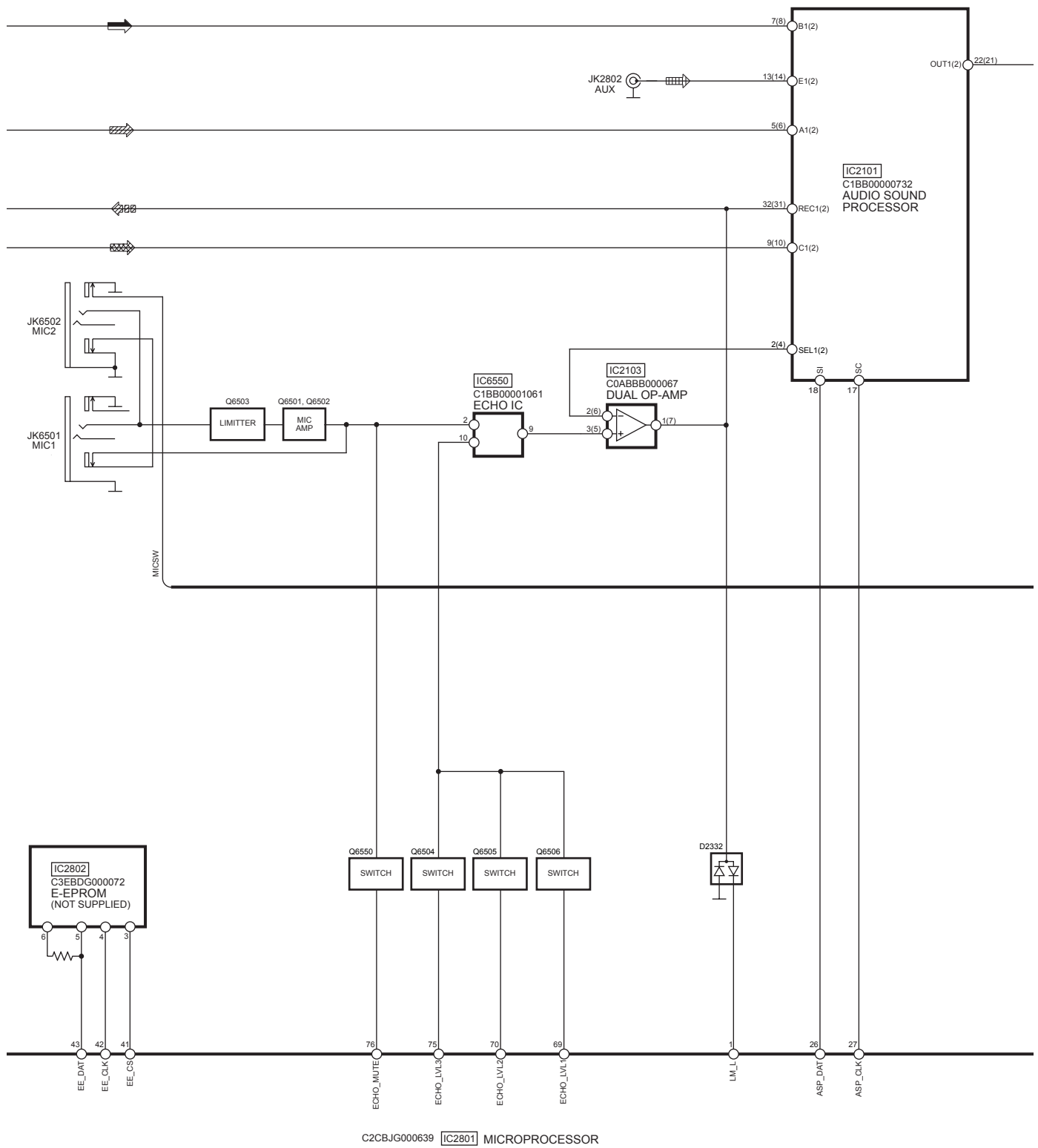


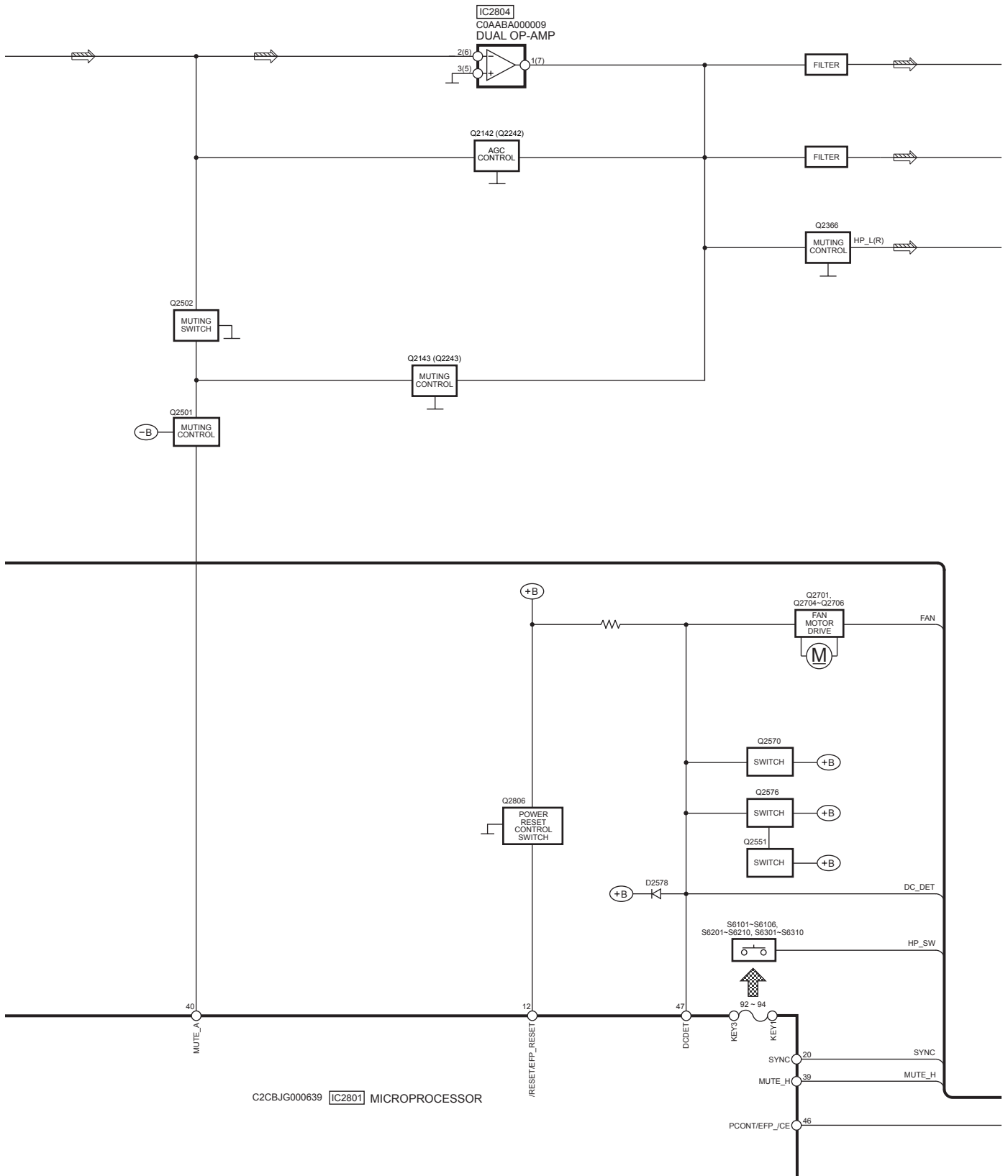


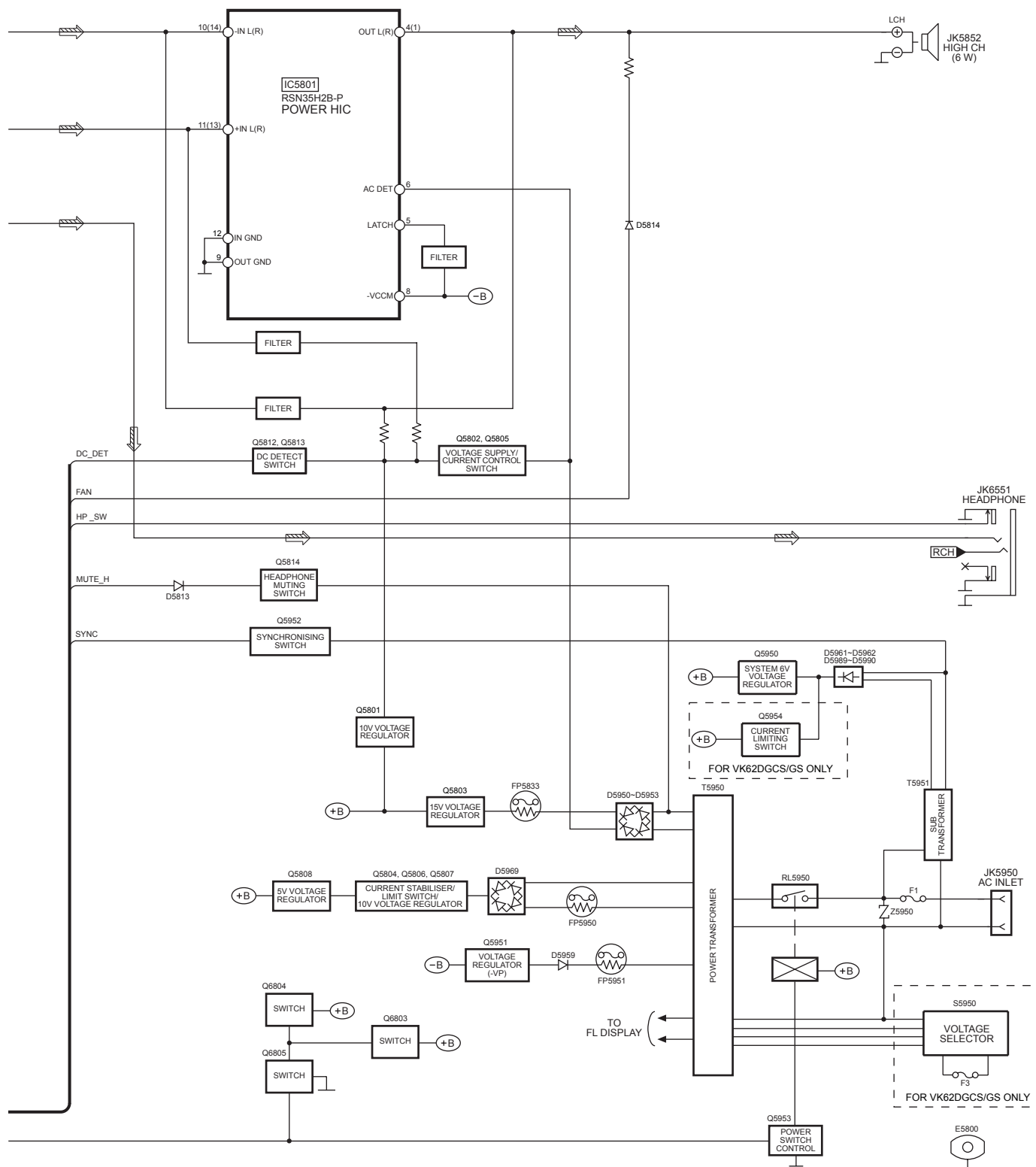












## SIGNAL LINES

	: MAIN SIGNAL LINE		: CD SIGNAL LINE		: AM SIGNAL LINE		: PLAYBACK SIGNAL LINE
	: FM OSC SIGNAL LINE		: AM OSC SIGNAL LINE		: FM/AM SIGNAL LINE		: RECORD SIGNAL LINE
	: FM SIGNAL LINE		: AUX SIGNAL LINE		: CD-DA (AUDIO/VIDEO) SIGNAL LINE		: DVD (AUDIO) SIGNAL LINE
					: DVD (VIDEO) SIGNAL LINE		

( ) Indicates the Pin No. of Right Channel.

NOTE : Signal Lines are applicable to the Left Channel only.

## 21.1. Optical Pickup Unit Circuit

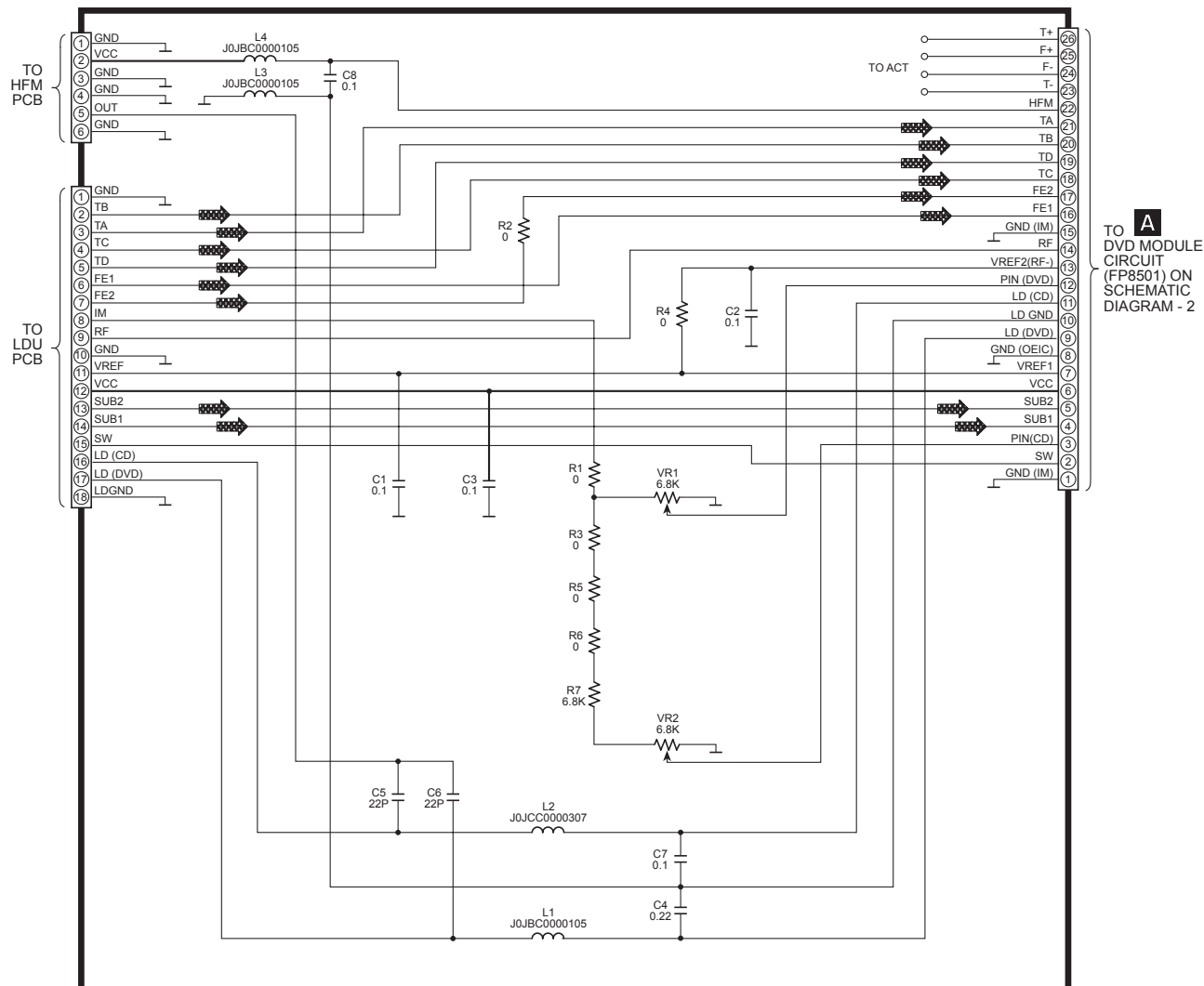
SCHEMATIC DIAGRAM - 1



## OPTICAL PICKUP UNIT CIRCUIT

— : +B SIGNAL LINE

▤ : CD-DA SIGNAL LINE

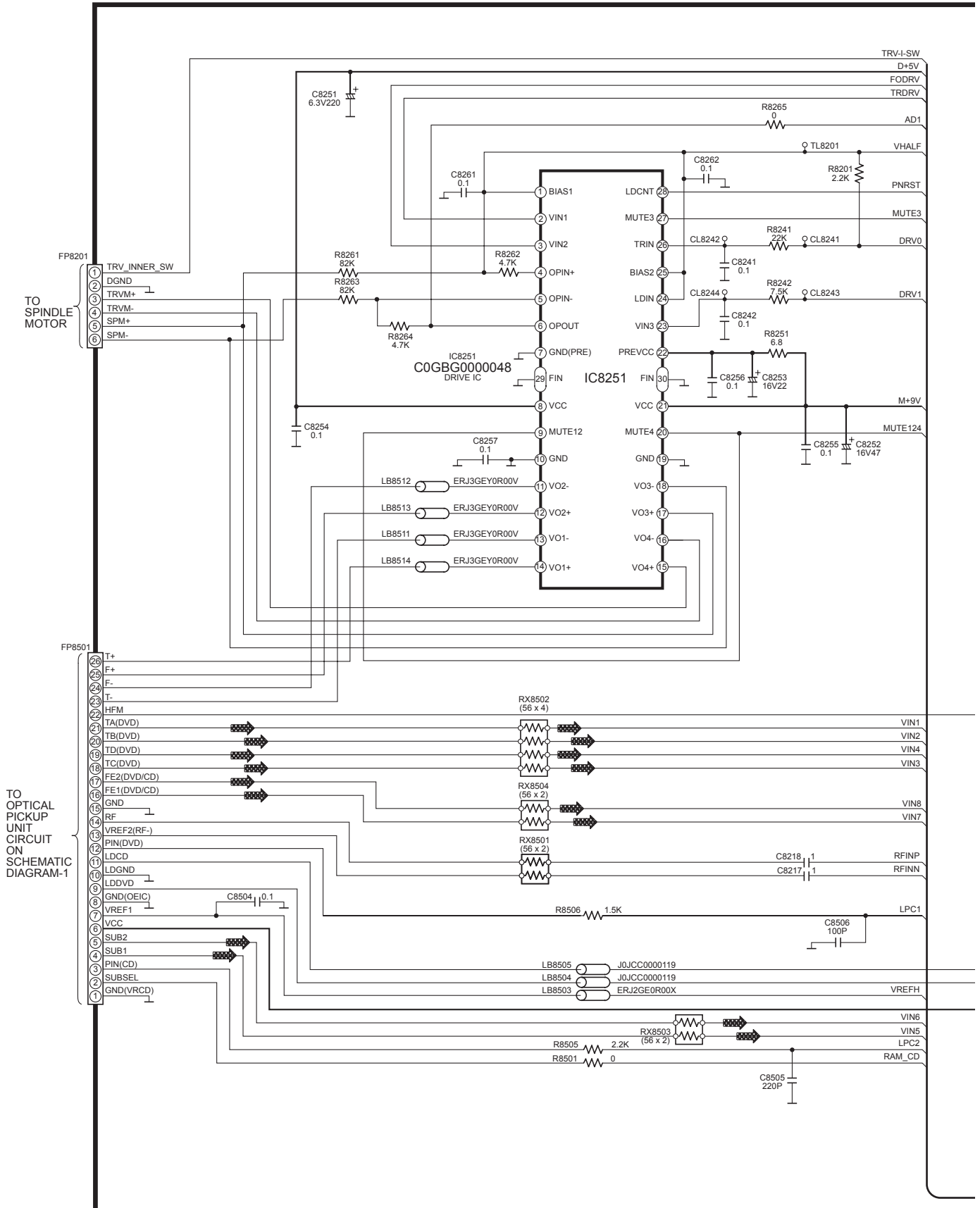


## 21.2. DVD Module Circuit

SCHEMATIC DIAGRAM - 2

**A** DVD MODULE CIRCUIT

— : +B SIGNAL LINE       : CD-DA SIGNAL LINE

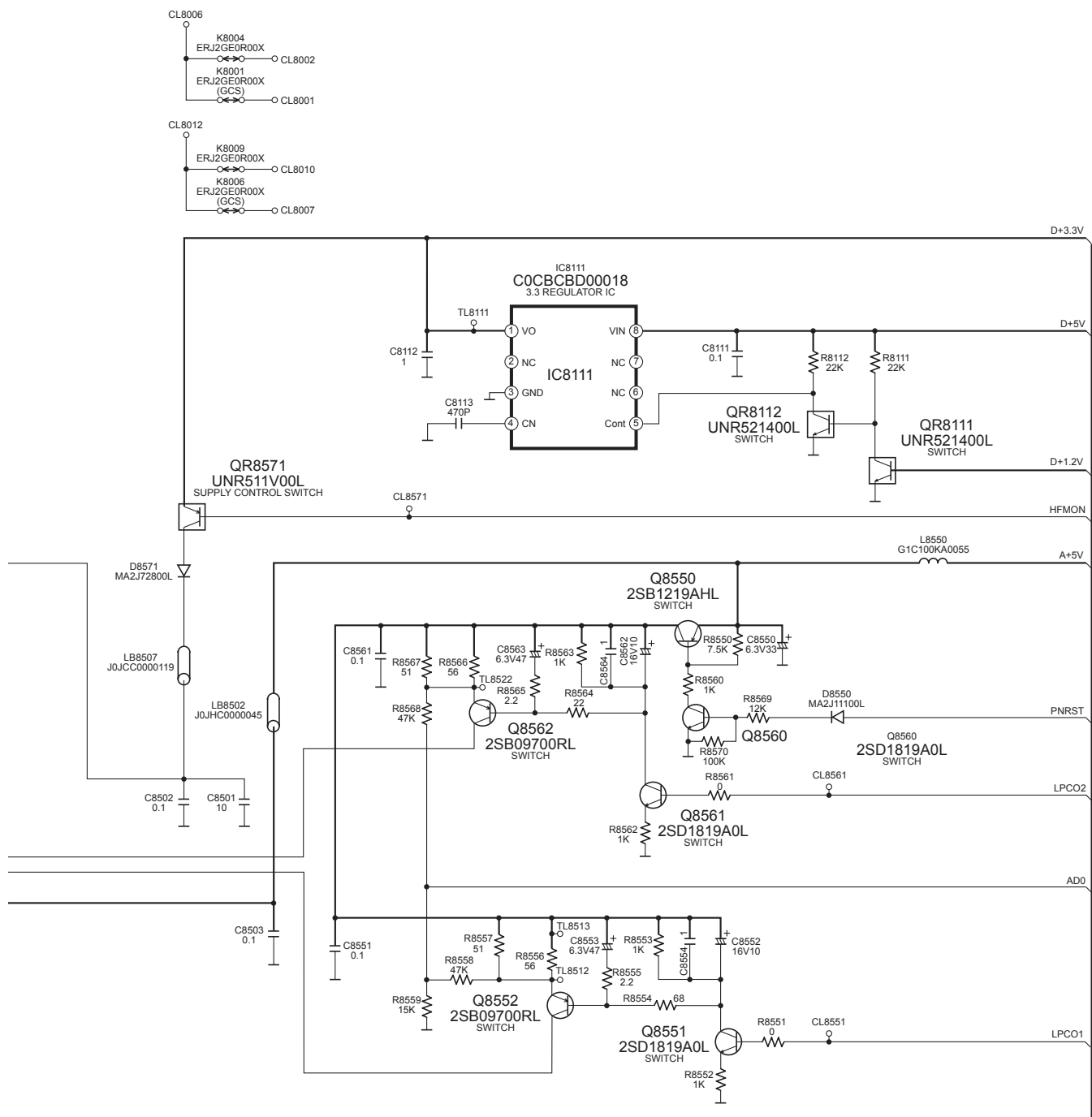


SCHEMATIC DIAGRAM - 3

A

## DVD MODULE CIRCUIT

———— : +B SIGNAL LINE

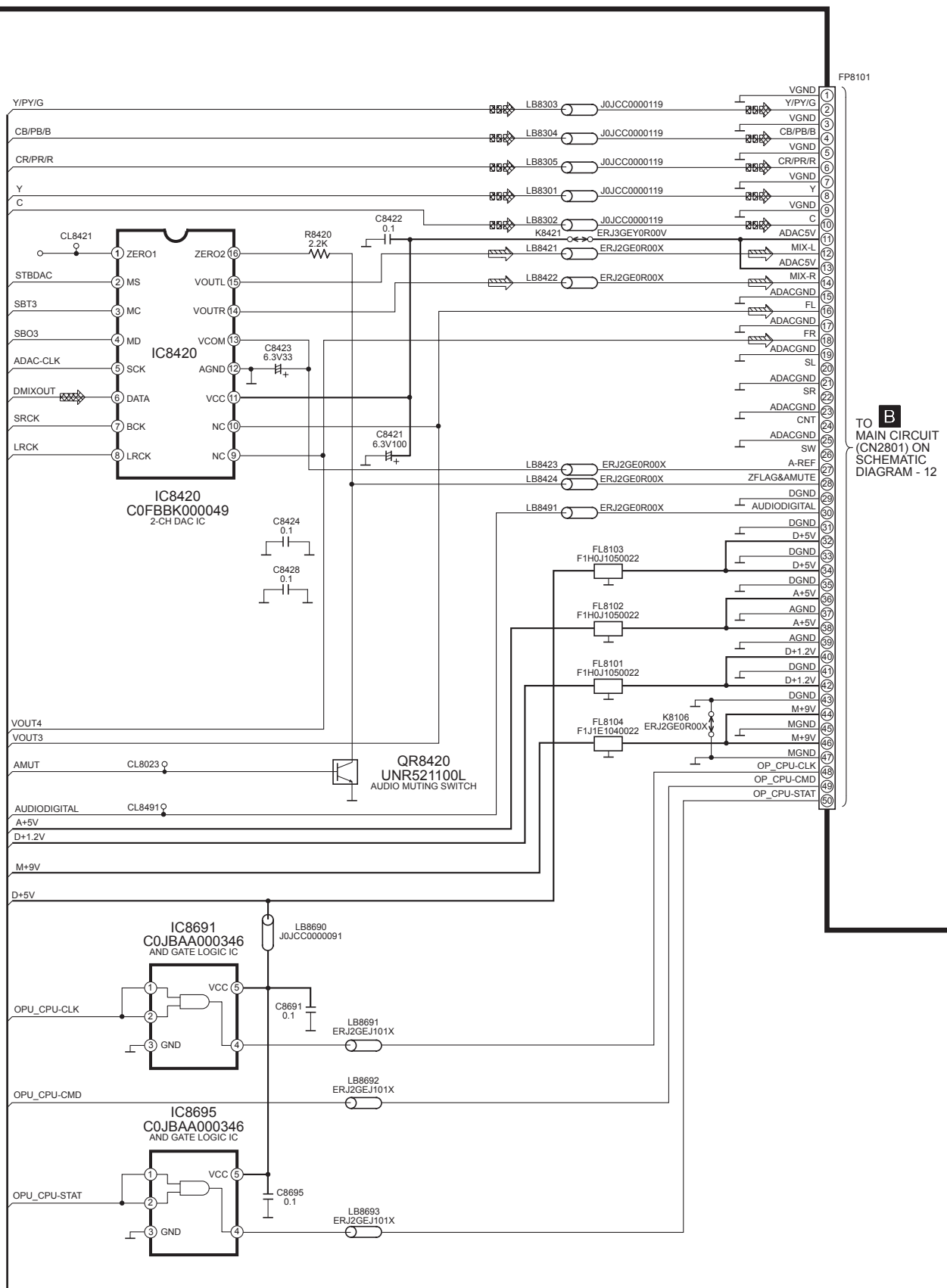


## SCHEMATIC DIAGRAM - 4

# A

 DVD MODULE CIRCUIT

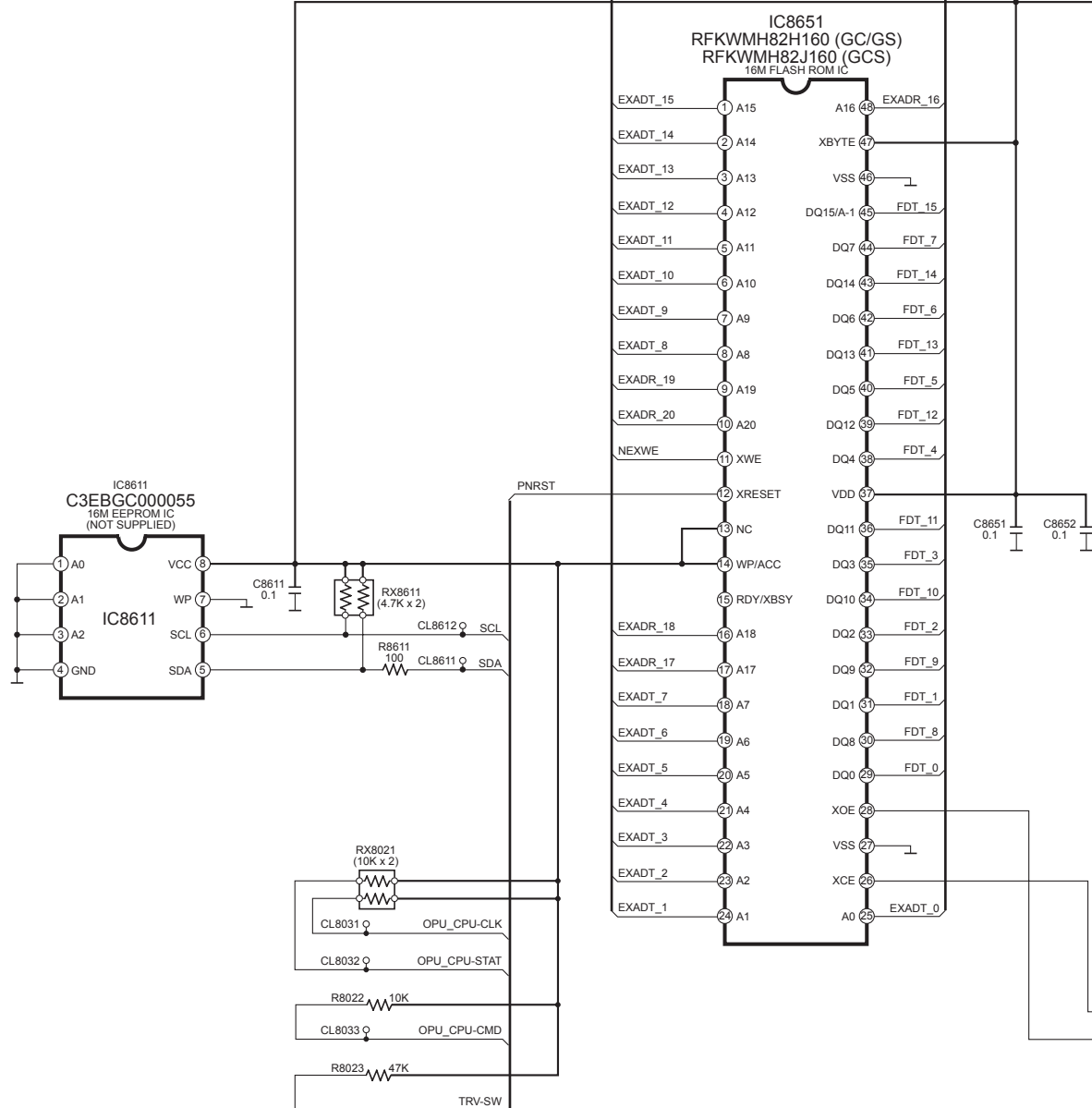
 : MAIN SIGNAL LINE  
 : DVD VIDEO SIGNAL LINE  
 : +B SIGNAL LINE  
 : DVD AUDIO SIGNAL LINE



## SCHEMATIC DIAGRAM - 5

# A DVD MODULE CIRCUIT

— : +B SIGNAL LINE



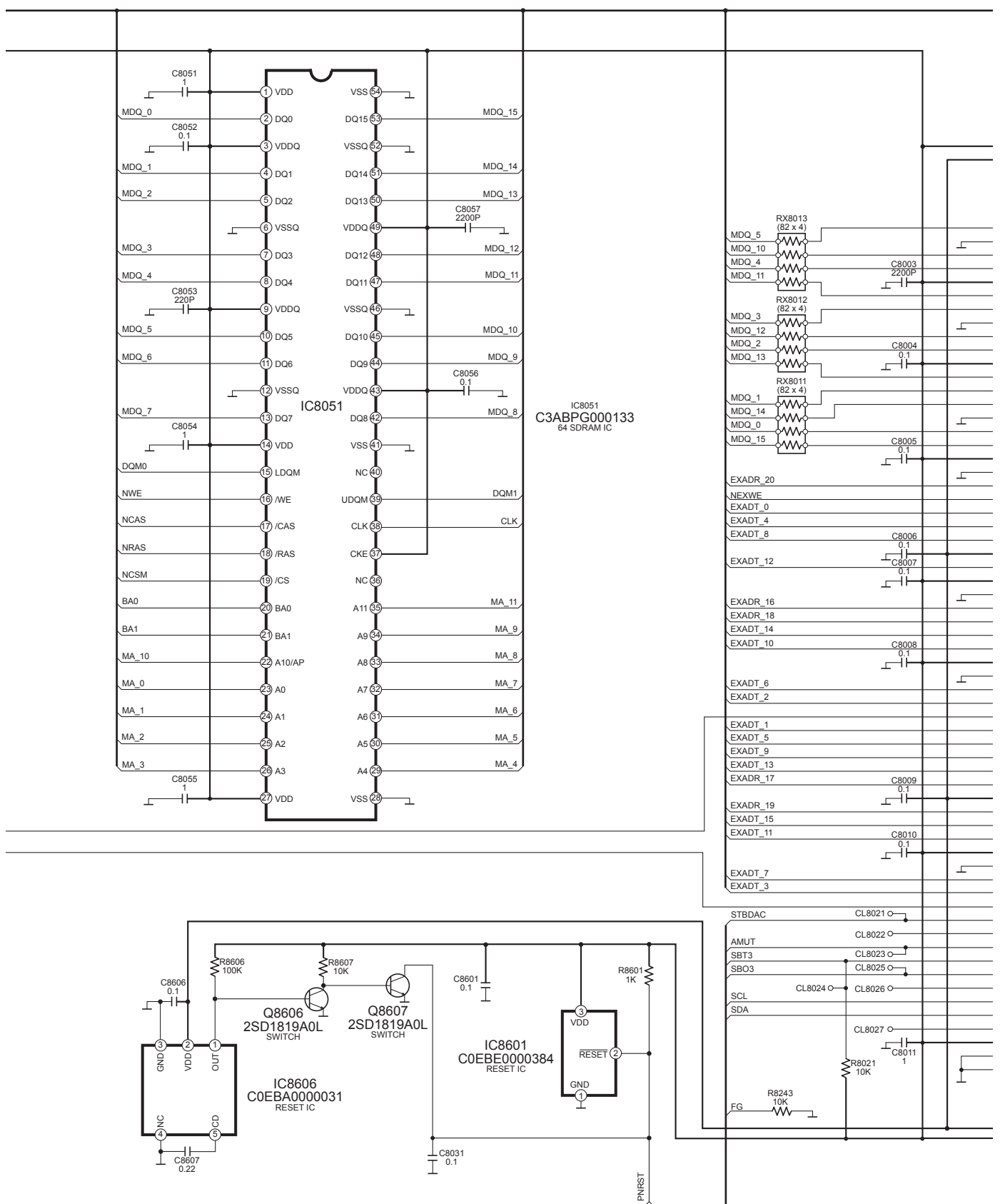


## SCHEMATIC DIAGRAM - 6

**A**

## DVD MODULE CIRCUIT

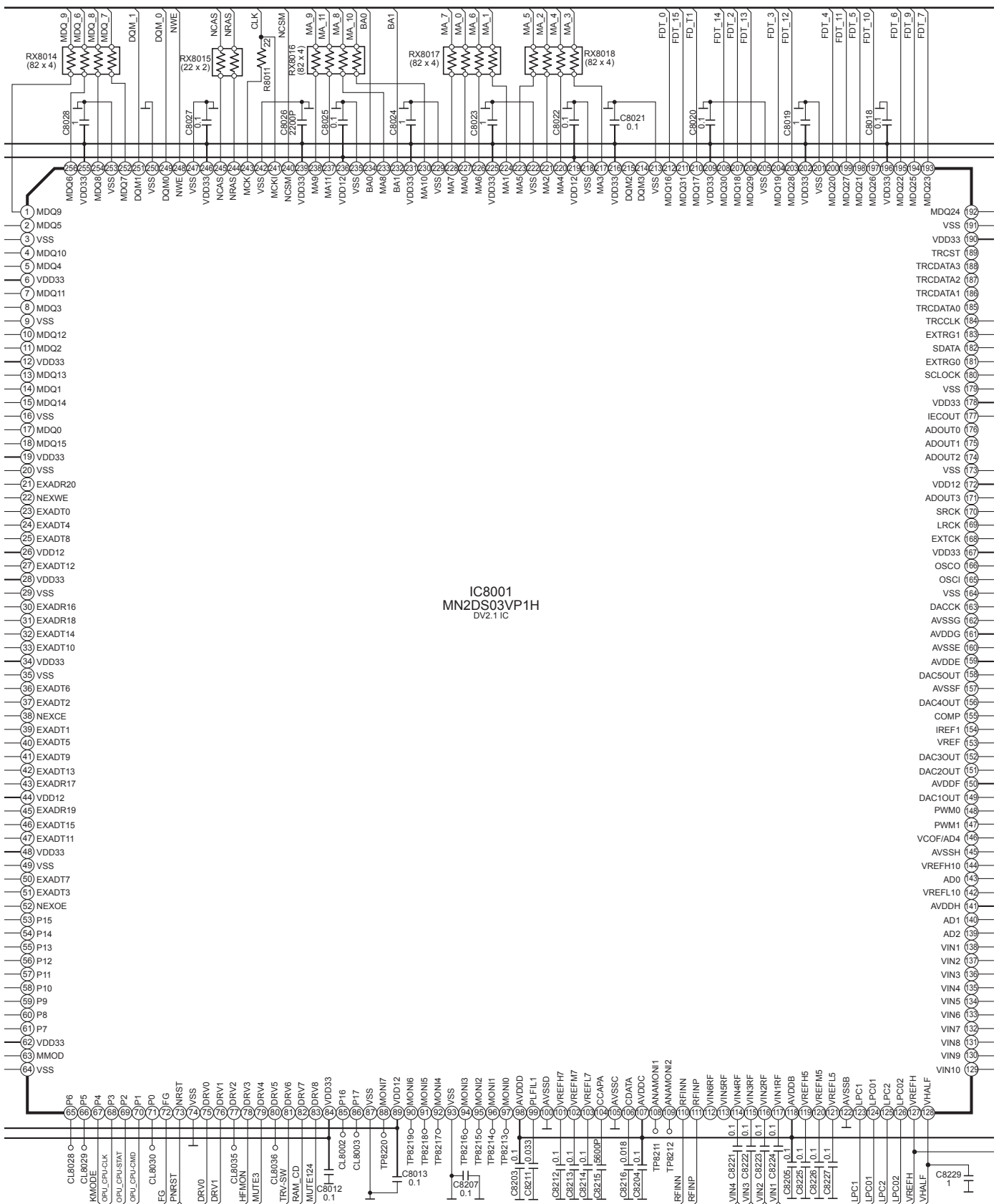
— : +B SIGNAL LINE



SCHEMATIC DIAGRAM - 7

## A DVD MODULE CIRCUIT

: +B SIGNAL LINE





## 21.3. (A) Main (Tuner) Circuit

SCHEMATIC DIAGRAM - 9

**B****MAIN (TUNER) CIRCUIT**

— : +B SIGNAL LINE

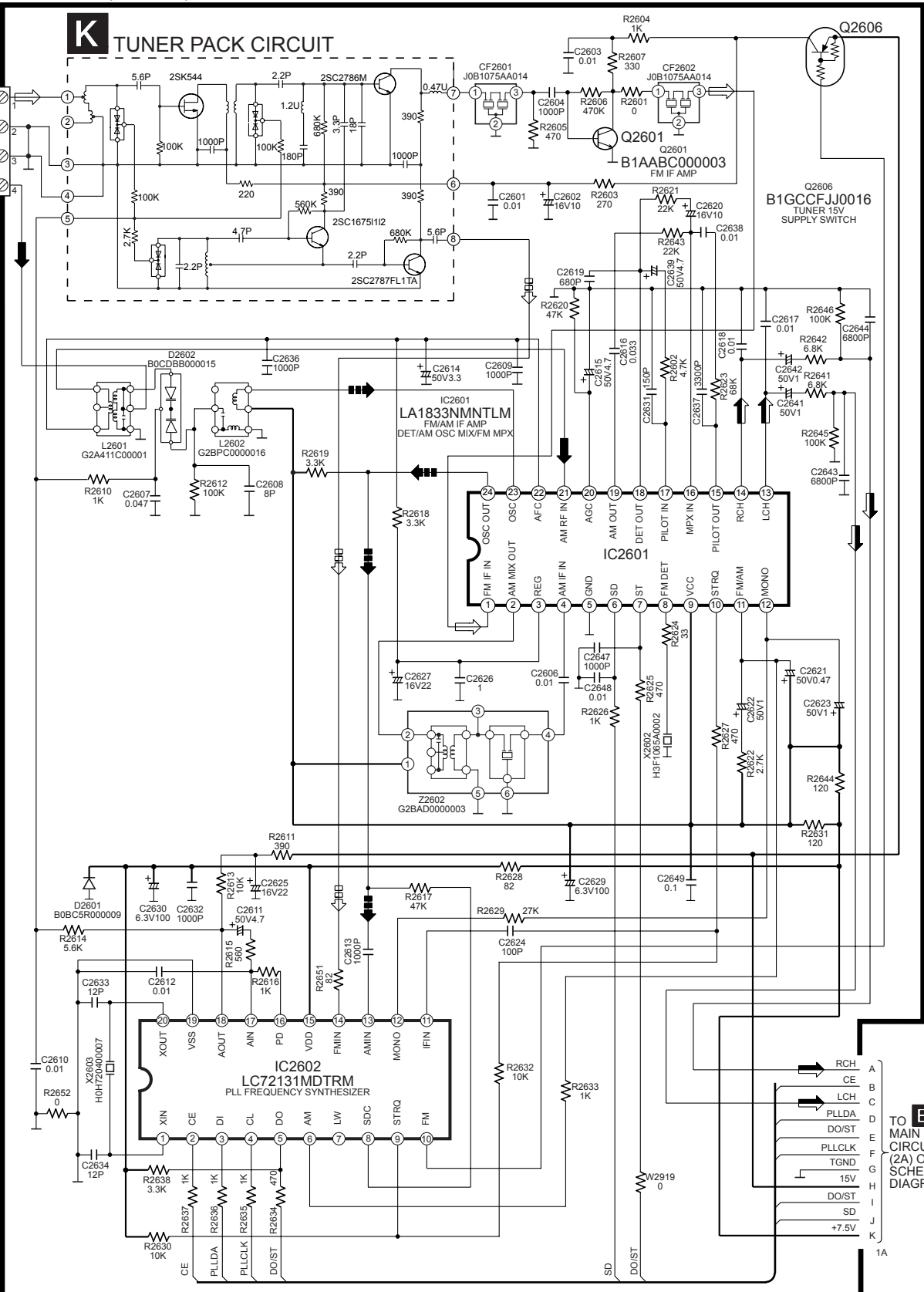
⇨ : FM SIGNAL LINE

➡ : AM SIGNAL LINE

⇨ : FM/AM SIGNAL LINE

⇨ : FM OSC SIGNAL LINE

➡ : AM OSC SIGNAL LINE

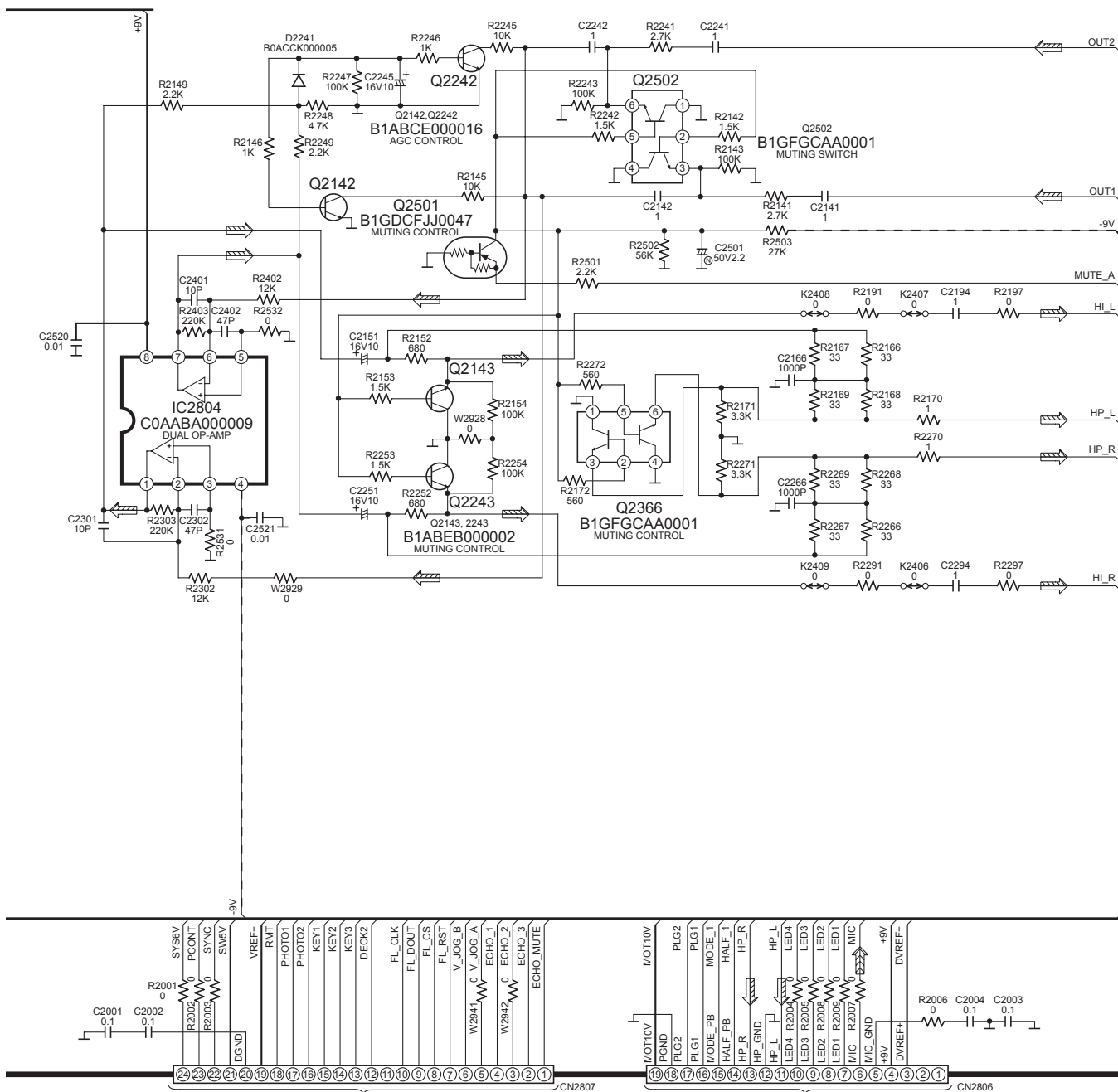






## SCHEMATIC DIAGRAM - 11

## B MAIN CIRCUIT

— : +B SIGNAL LINE       : MIC SIGNAL LINE  
 - - : -B SIGNAL LINE       : MAIN SIGNAL LINE



TO  C  
PANEL CIRCUIT  
(CN6807) ON  
SCHEMATIC  
DIAGRAM - 19

TO  PANEL CIRCUIT  
(CN6806) ON  
SCHEMATIC  
DIAGRAM - 19

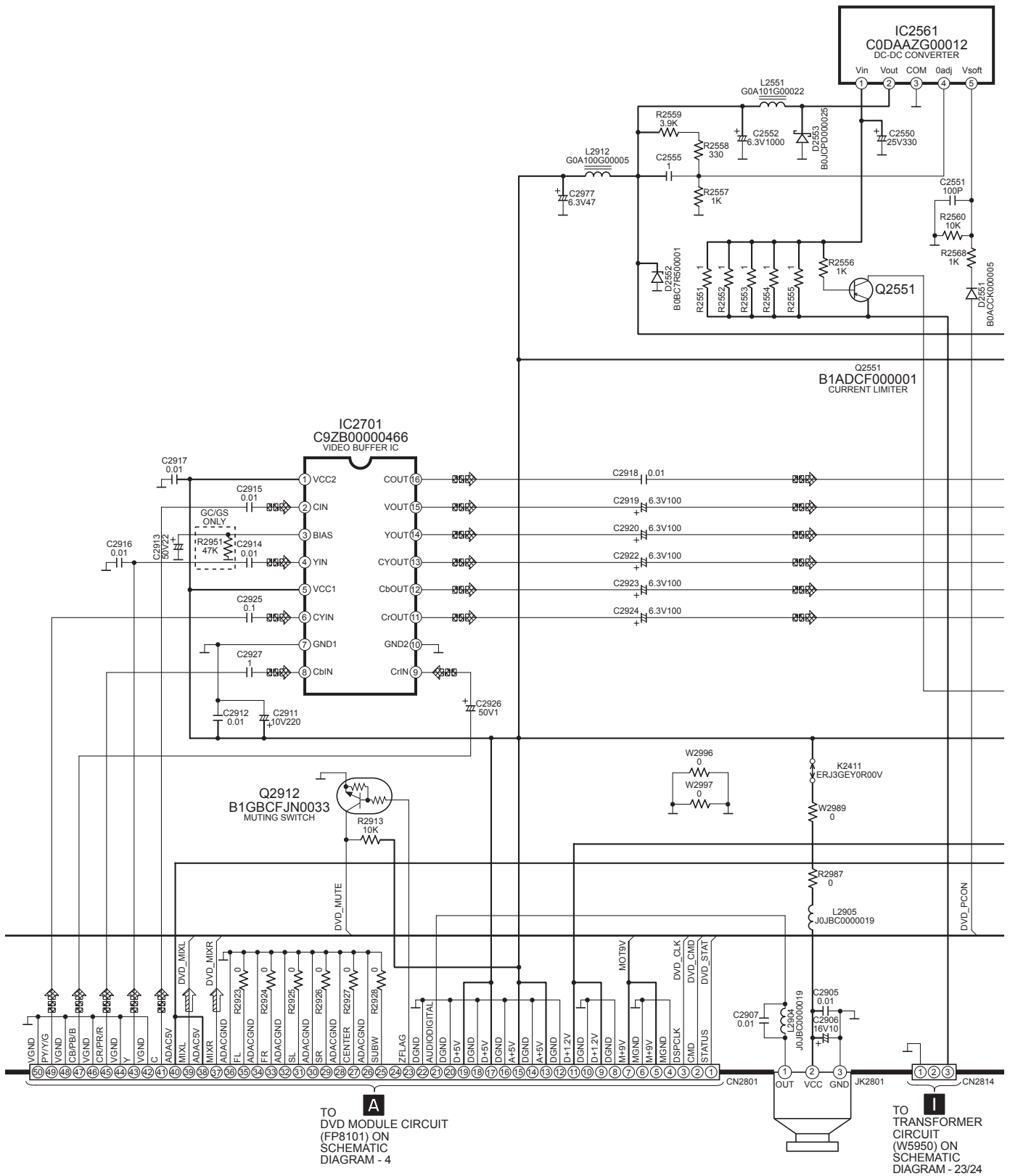
## SCHEMATIC DIAGRAM - 12

**B** MAIN CIRCUIT

→ : MAIN SIGNAL LINE

— : +B SIGNAL LINE

⬮ : DVD VIDEO SIGNAL LINE





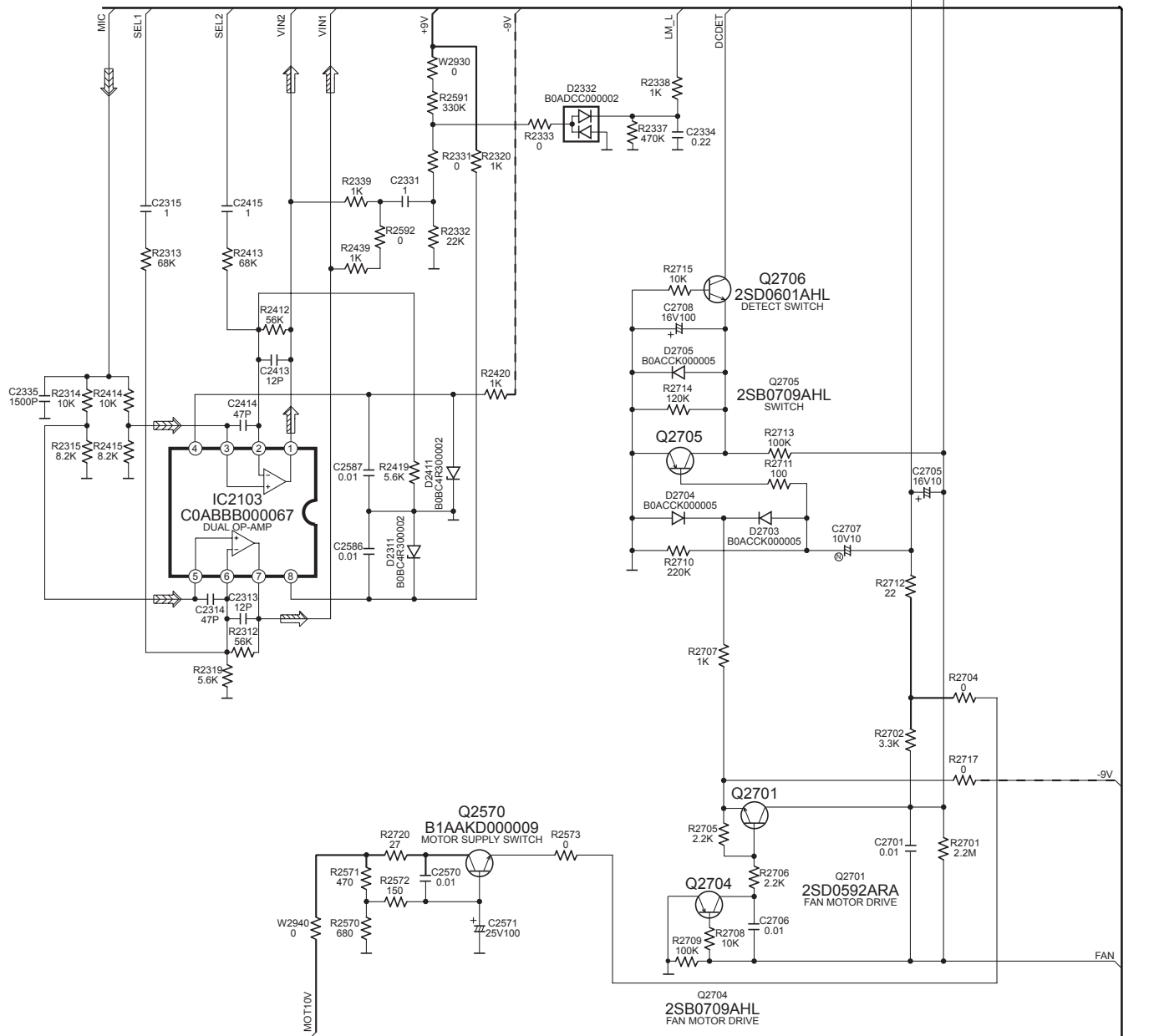


## SCHEMATIC DIAGRAM - 14

**B** MAIN CIRCUIT

— : +B SIGNAL LINE     : MIC SIGNAL LINE  
 - - : -B SIGNAL LINE     : MAIN SIGNAL LINE

TO FAN UNIT  
 CN2810

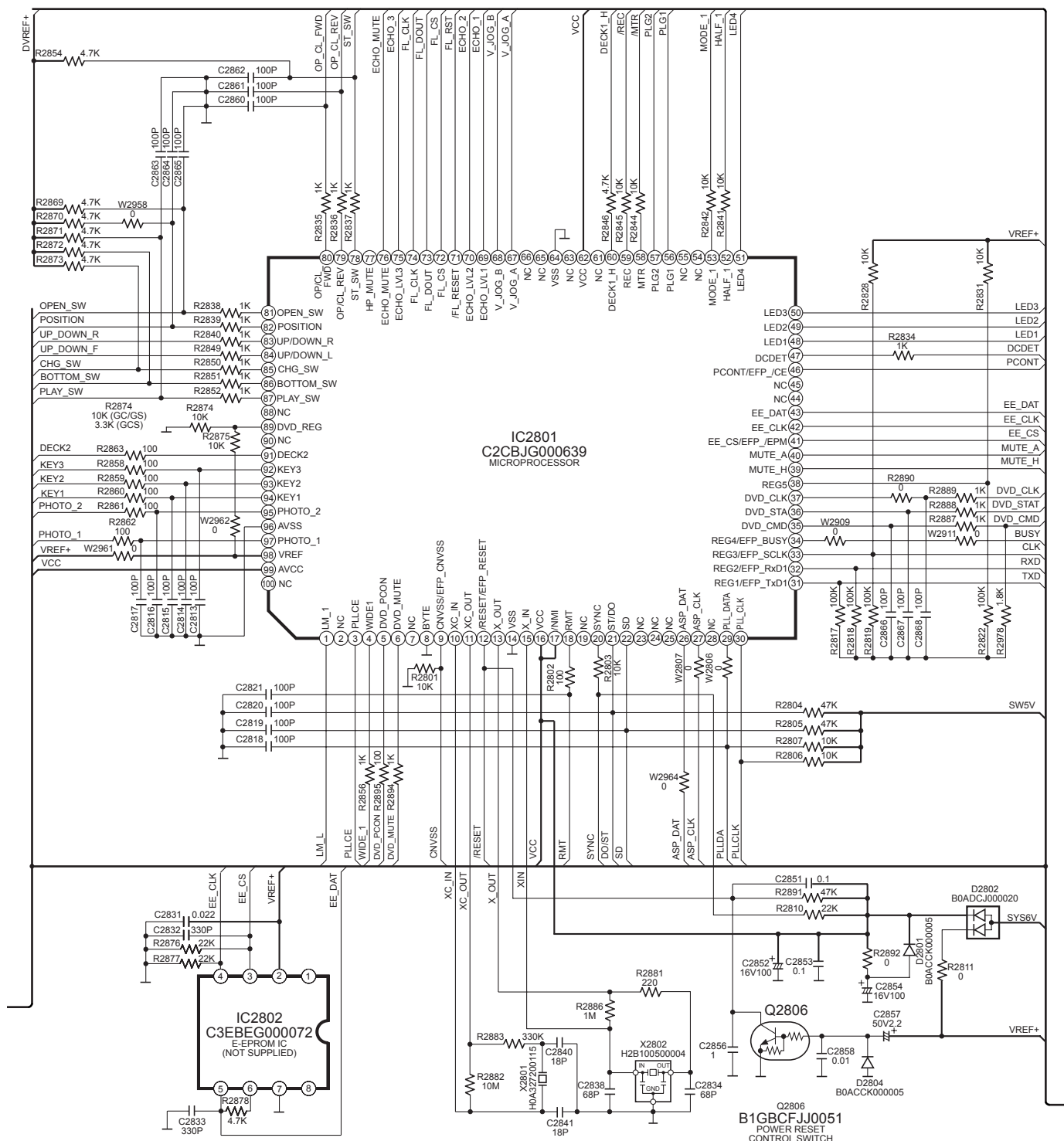


## SCHEMATIC DIAGRAM - 15

# B

## MAIN CIRCUIT

— : +B SIGNAL LINE



## SCHEMATIC DIAGRAM - 16

**B** MAIN CIRCUIT

➡ : FM/AM SIGNAL LINE

— : +B SIGNAL LINE

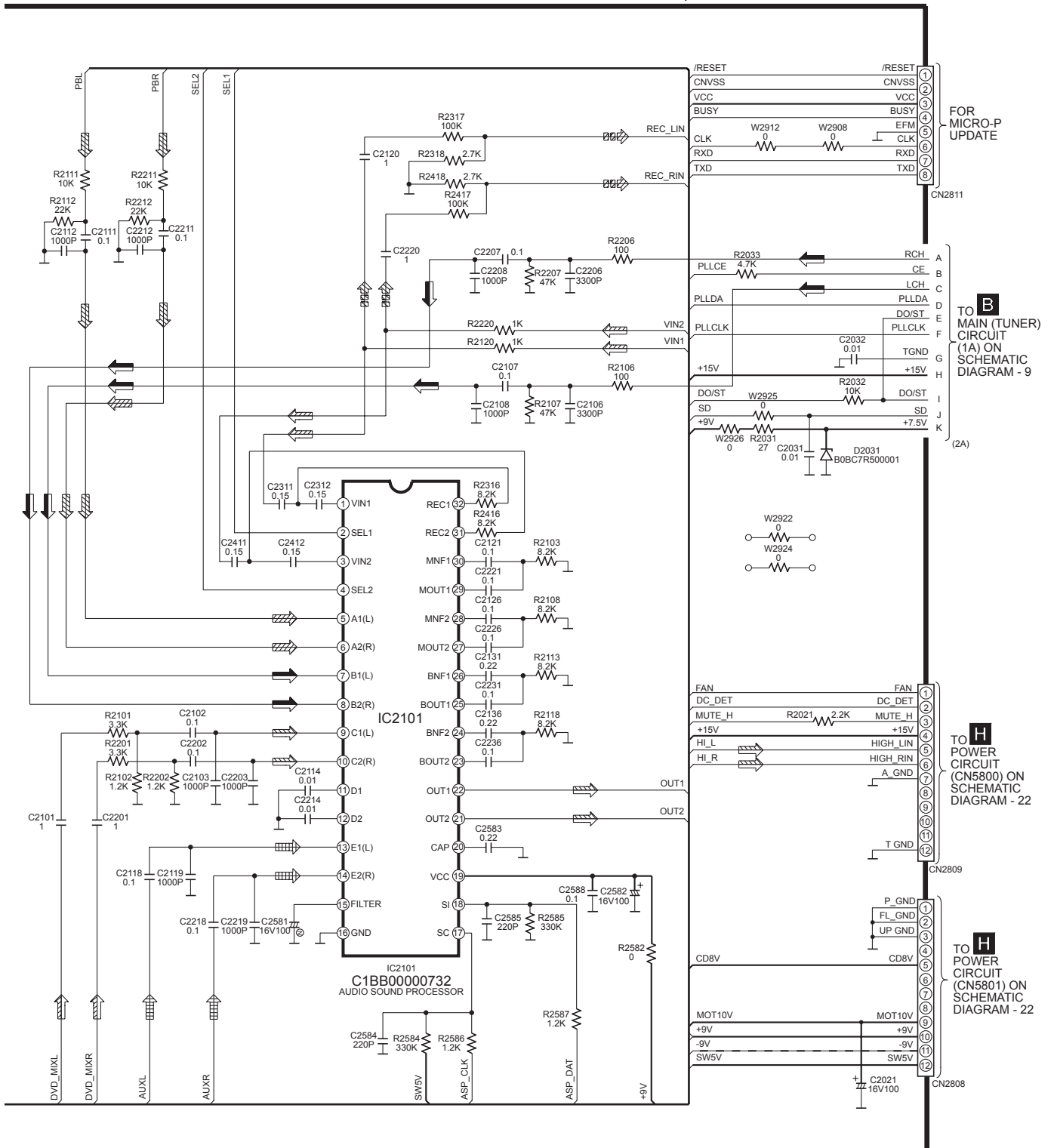
▨ : AUX SIGNAL LINE

▨ : TAPE PLAYBACK SIGNAL LINE

- - : -B SIGNAL LINE

▨ : MAIN SIGNAL LINE

▨ : TAPE RECORD SIGNAL LINE





SCHEMATIC DIAGRAM - 18

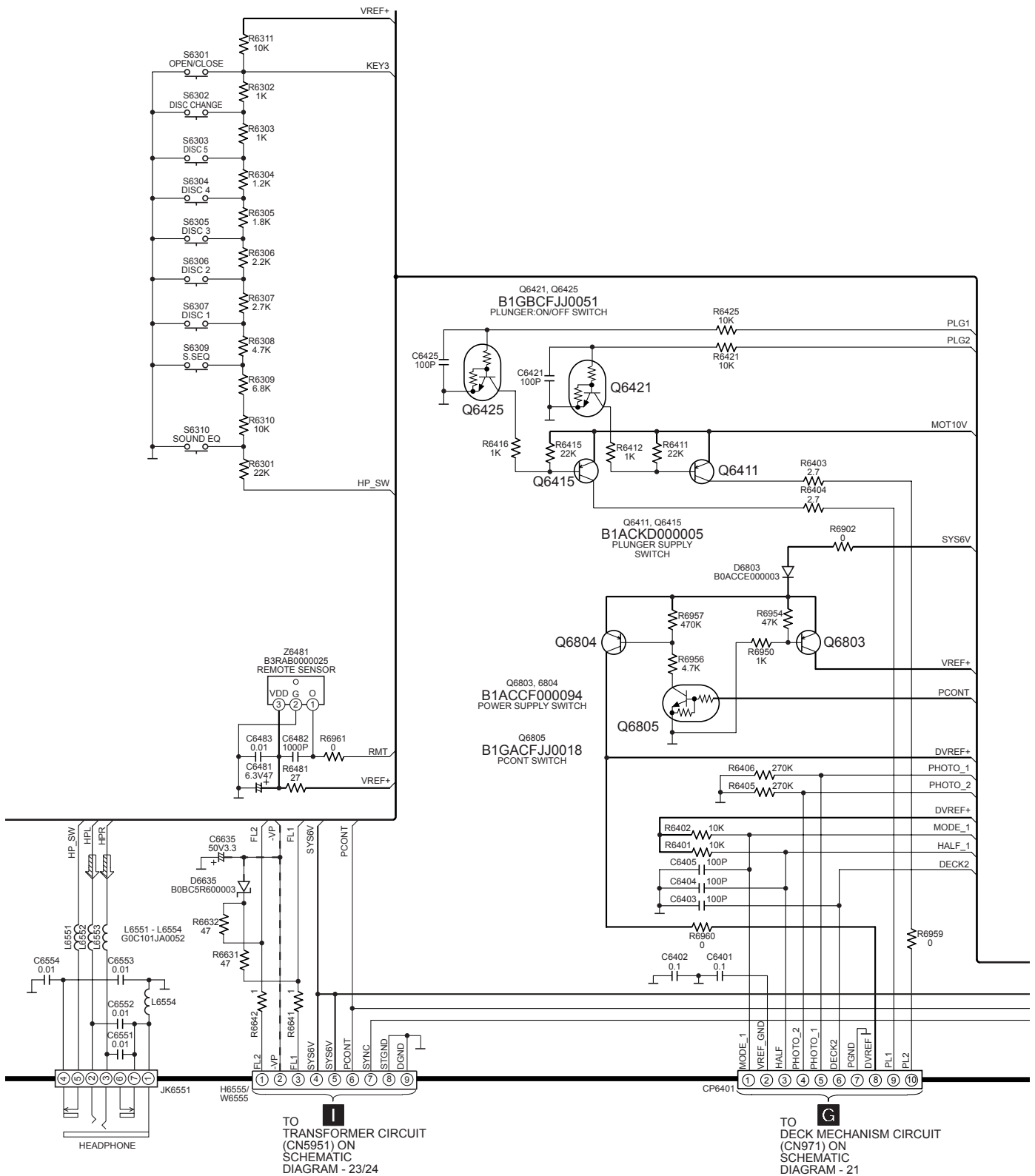


## PANEL CIRCUIT

— : +B SIGNAL LINE

- - : -B SIGNAL LINE

 : MAIN SIGNAL LINE



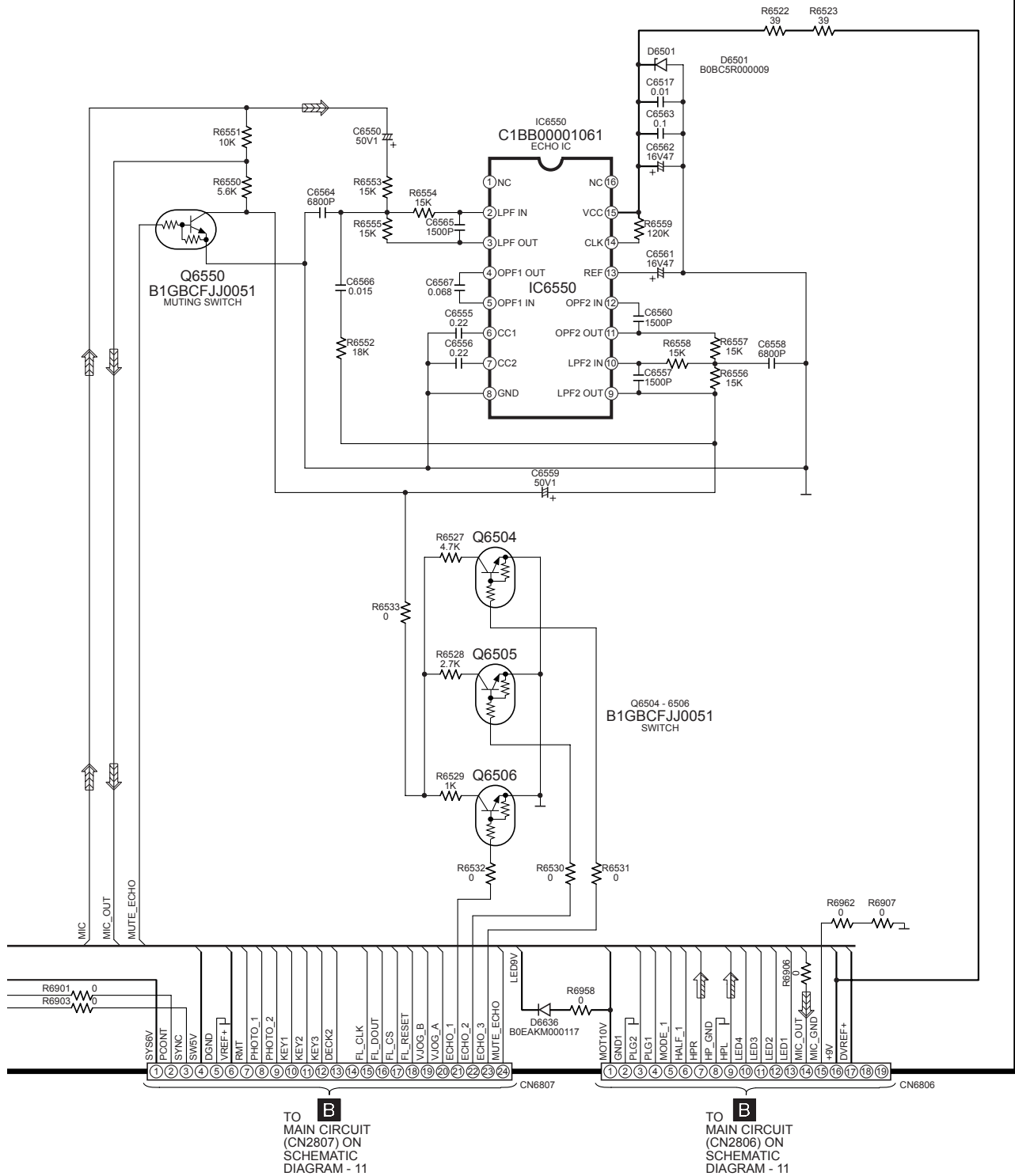
## SCHEMATIC DIAGRAM - 19

## PANEL CIRCUIT

— : +B SIGNAL LINE

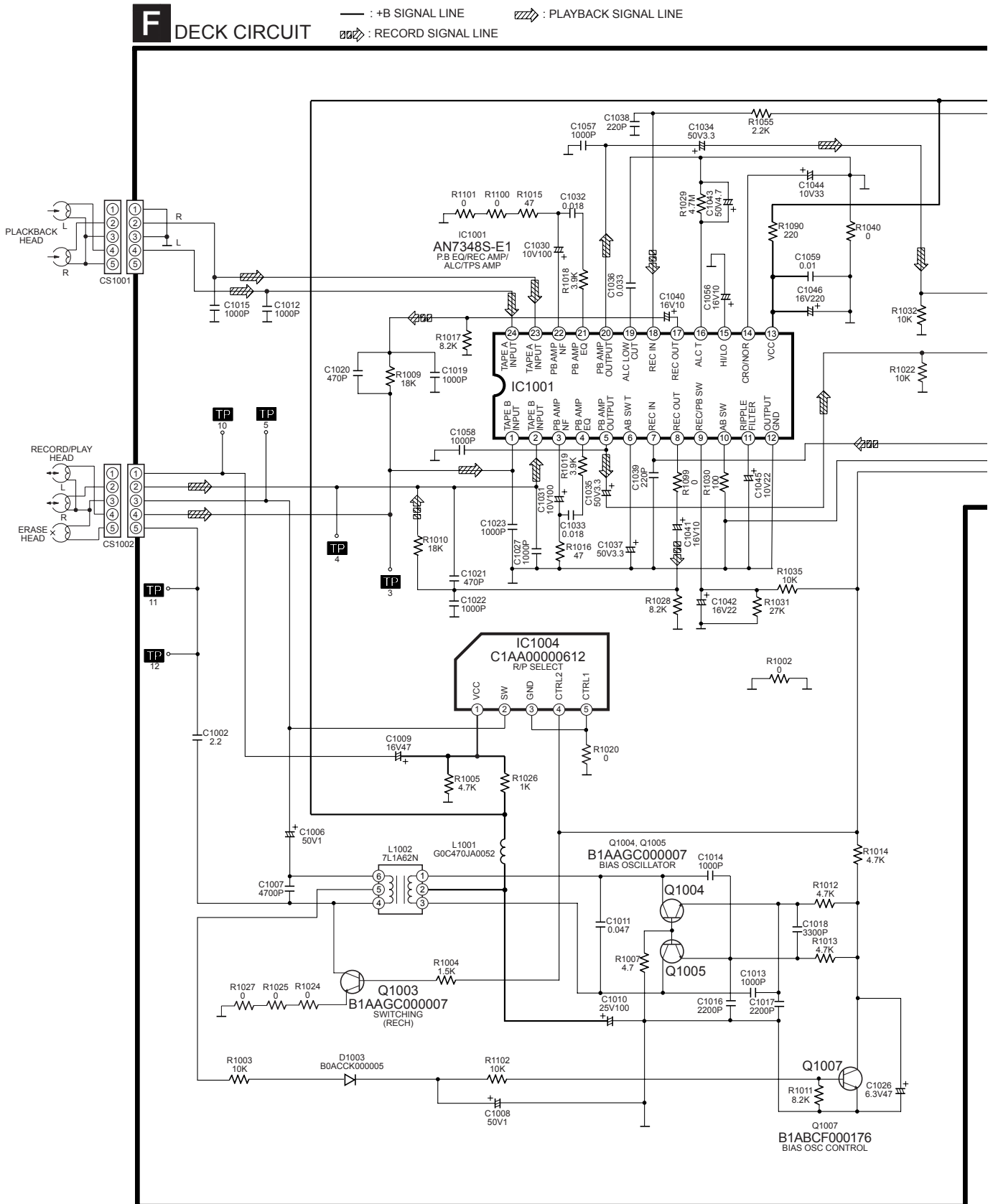
 : MIC SIGNAL LINE

 : MAIN SIGNAL LINE



## 21.6. (F) Deck Circuit & (G) Deck Mechanism Circuit

SCHEMATIC DIAGRAM - 20







## 21.7. (H) Power Circuit

SCHEMATIC DIAGRAM - 22

