

Service Manual

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ORDER NO. AD0103076C2

Service Manual

Stereo tuner/ amplifier

1 SA-DV250

Colour

(S).....Silver Type

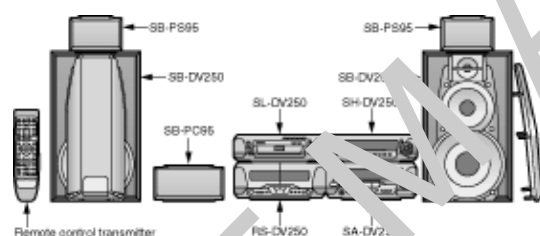
Areas

EB.....Great Britain.

EG.....Europe.

System: SC-DV250

Because of unique interconnecting cables, when a compact requires service, send or bring in the entire system.



Specification

• Amplifier Section (Low frequency side)

Power output

DIN 100Hz, THD 1%, 8Ω both channels driven:

2x45W

RMS 100Hz, THD 10%, 8Ω both channels driven:

2x65W

• Amplifier Section (High frequency side)

Power output

DIN 1kHz, THD 1%, 6Ω both channels driven:

2x25W

RMS 1kHz, THD 10%, 6Ω both channels driven:

2x35W

Power output (prologic mode)

DIN (front: high frequency) 1kHz, THD 1%, 6Ω both channels driven:

2x25W

(front: low frequency) 100Hz, THD 1%, 8Ω both channels driven:

2x45W

(surround) 1kHz, THD 1%, 8Ω both channels driven:

2x30W

(center) 1kHz, THD 1%, 8Ω:

60W

RMS (front: high frequency) 1kHz, THD 10%, 6Ω both channels driven:

2x35W

(front: low frequency) 100Hz, THD 10%, 8Ω both channels driven:

2x65W

(surround) 1kHz, THD 10%, 8Ω both channels driven:

2x40W

(center) 1kHz, THD 10%, 8Ω:

80W

• Total harmonic distortion

Rated power at 1kHz/ 6Ω:

1%

Half power at 1kHz/ 6Ω:

0.1%

• Load impedance

Front (high frequency):

6Ω

(low frequency):

8Ω

Surround:

8Ω

Center:

8Ω

• FM tuner section

Frequency range:

87.50-108.00MHz
(0.05MHz steps)

Sensitivity (S/N 26dB):

1.5μV

S/N:

MONO 70dB
(75dB, IHF)

Antenna terminals:

75Ω (unbalance)

• AM tuner section

7.1 To display the malfunction code

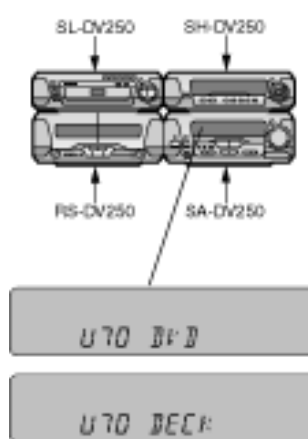
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U70 DVD: Automatically displays on the

U70 DECK: tuner/amplifier when a malfunction occurs. Refer to Fig. 7-1.

F61: Automatically displays on the tuner/amplifier when a malfunction occurs. Refer to Fig. 7-1.

Fig. 7-1



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7.2 To return to the normal display

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1. For U70 DVD/U70 DECK

- i Press an any operation button on the tuner/amplifier.
- i To re-display the code, switch the power off (POWER STANDBY button), and then switch power back on again.

2. For F61

- i If F61 is displayed, the power will automatically be switched off and the standby indicator will light up.
- i F61 will be displayed for 3 seconds, and then the clock will be displayed.
- i To re-display the code, switch the power on. F61 will be re-displayed, and then after 3 seconds the clock will be displayed and the power will automatically switch off.

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7.3.1 U70 DVD, U70 DECK/(displayed automatically)

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Problem or condition

A bus-line communications error has occurred as a result of the flat cables being inserted incorrectly, thus preventing the system from operating.

- i If U70 is displayed on the tuner/amplifier, the Cassette deck or DVD Changer cannot be operated by remote control.

Correction Procedure

1. To check for correct insertion of the flat cables.

- n Insert each connectors until you hear a click.
- n Insert the flat cables at the back of the unit in the order indicated. Refer to Fig. 8-2.

Make sure the white side of the cables is on your right side. Refer to Fig. 8-3.

Fig. 7-2.

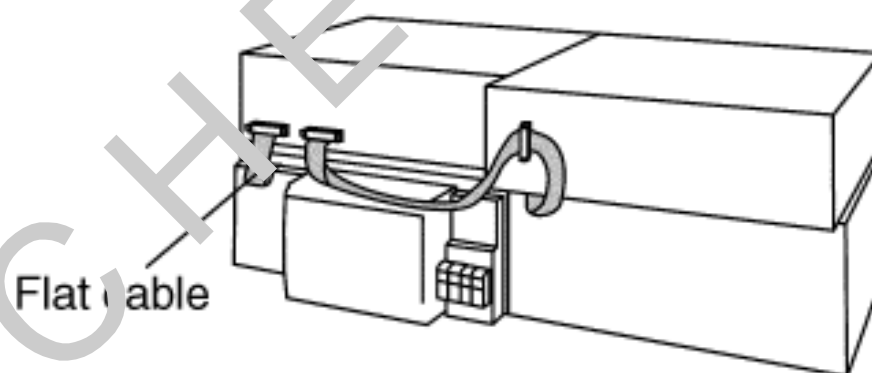
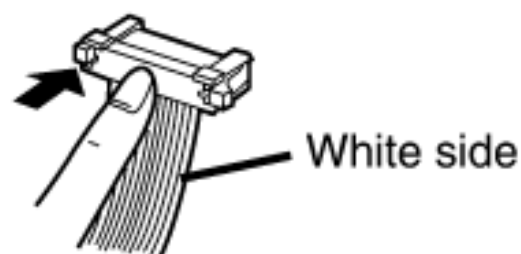


Fig. 7-3.



2. Breakage of the flat cables. (Check and replace.)
3. If the problem is not corrected by items 1 and 2 above, this indicates a faulty IC.

SA-DV250:

IC901 (C2BBFD000317)

SL-DV250:

IC401 (M38504E6227F)

RS-DV250:

IC701 (M38503M2406F)

Check these ICs and replace.

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7.3.2 F61

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- | [Problem or condition](#)

When the power switch is switched on, it automatically switches back off, making it impossible to switch power on.

- | [Correction procedure](#)

Faulty Tuner/Amplifier (SA-DV250) output IC (IC601).

(When a DC voltage is applied to speaker terminals.)

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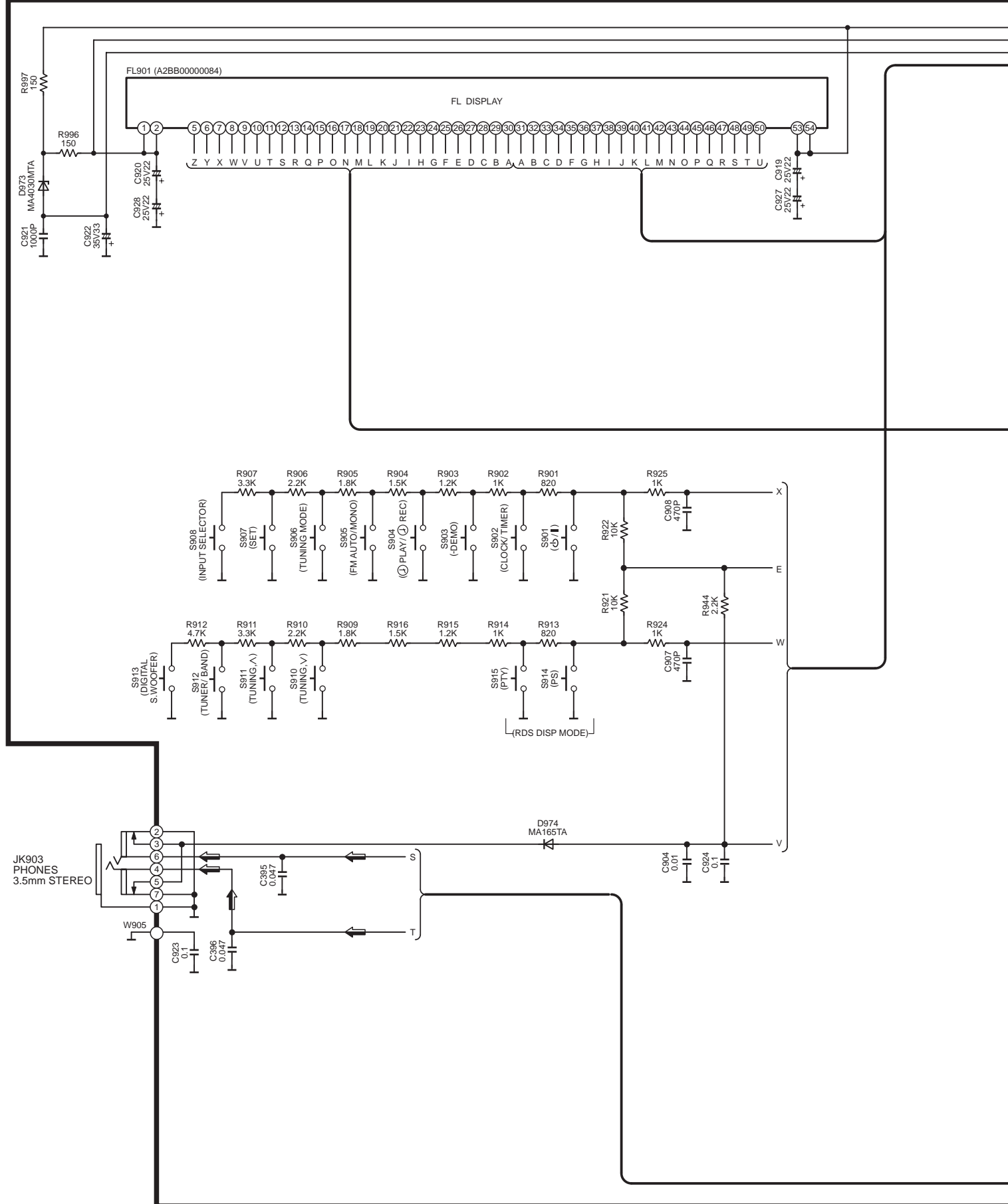
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SCHEMATIC DIAGRAM-1

A OPERATION CIRCUIT

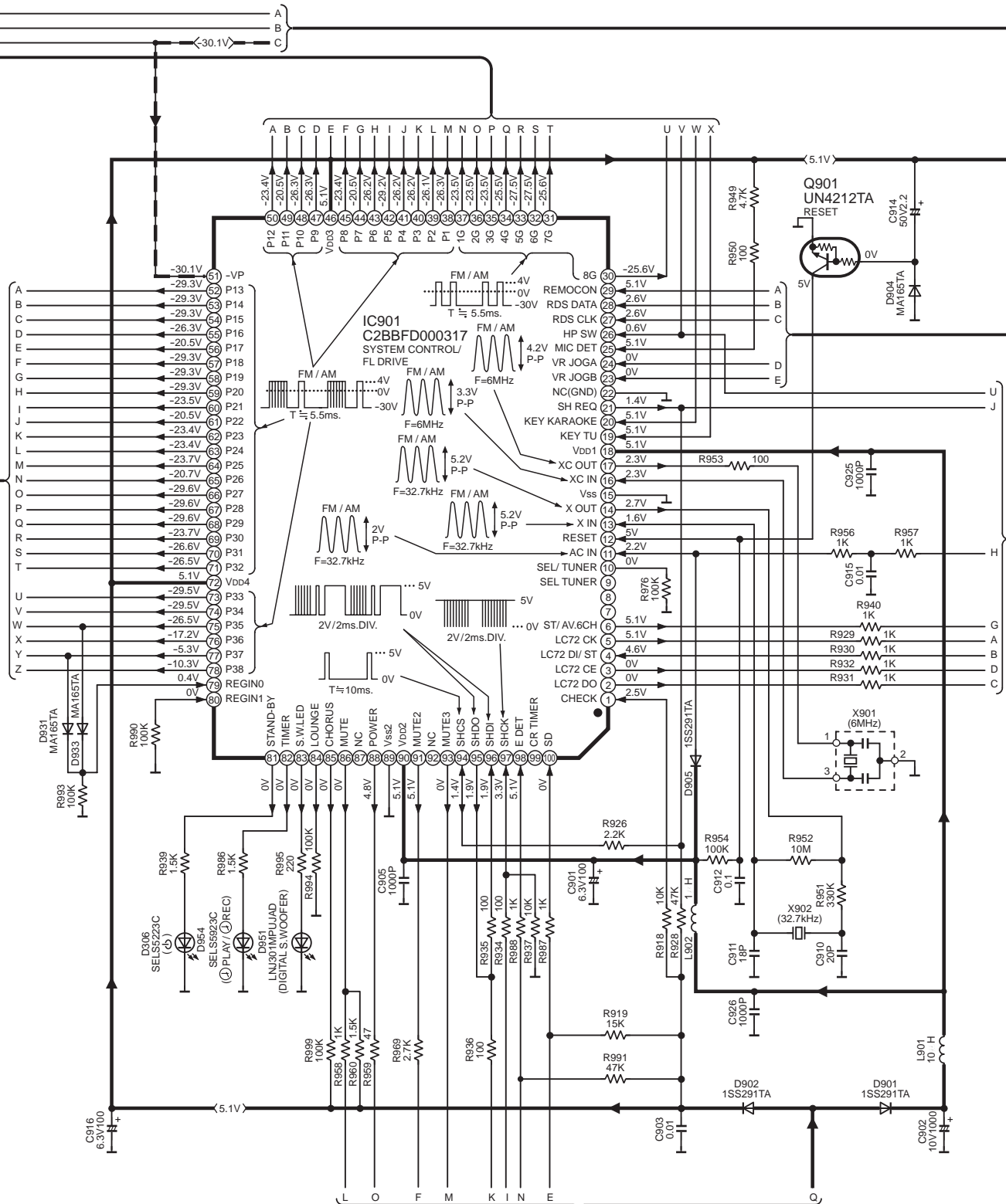
NOTE:
 The number which noted at the connectors on the schematic diagram as
 "SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2"
 indicates the schematic diagram serial number located on the left corner in the schematic diagram.

⇒ :AUDIO SIGNAL LINE



SCHEMATIC DIAGRAM-2

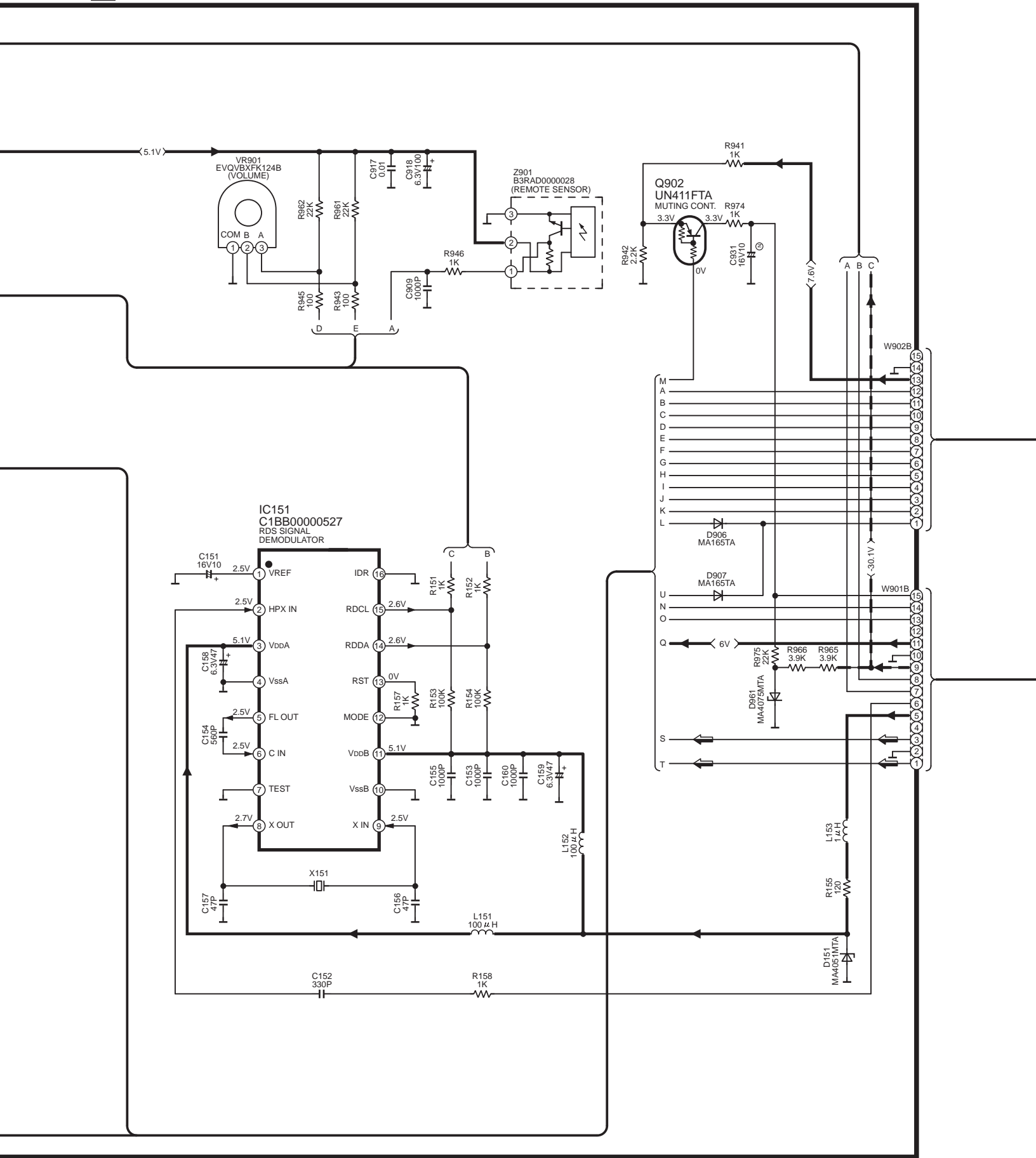
➔ : POSITIVE VOLTAGE LINE ➔ - : NEGATIVE VOLTAGE LINE



SCHEMATIC DIAGRAM-3

A OPERATION CIRCUIT

→ : POSITIVE VOLTAGE LINE - - - - - : NEGATIVE VOLTAGE LINE ⇨ : AUDIO SIGNAL LINE



SCHEMATIC DIAGRAM-4

B MAIN CIRCUIT

: POSITIVE VOLTAGE LINE
 : NEGATIVE VOLTAGE LINE
 : FM SIGNAL LINE
 : AM SIGNAL LINE
 : MIC SIGNAL LINE
 : AUDIO SIGNAL LINE

To SOUND PROCESSOR (SH-DV250)

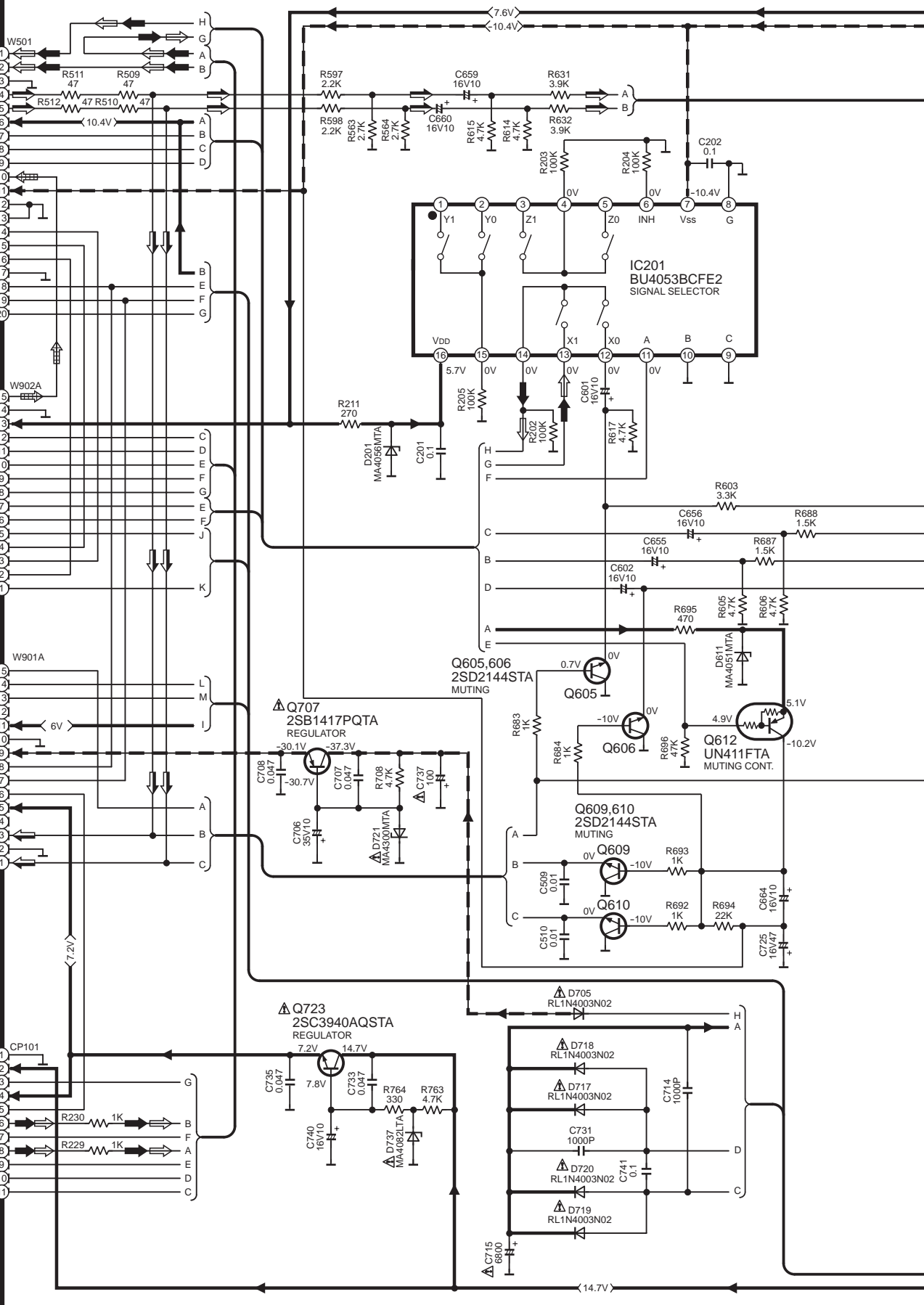
- 1 TUNER Lch/C
- 2 TUNER Rch
- 3 A.GND
- 4 Lch IN
- 5 Rch IN
- 6 +B(10V)
- 7 SUR L
- 8 SUR R
- 9 S.W
- 10 MIC
- 11 -B(-10V)
- 12 V.GND
- 13 D.GND
- 14 CS/REQ
- 15 CLK
- 16 DATA
- 17 CT GND
- 18 SH FL1
- 19 SH FL2
- 20 SYNC

- 15 W902A
- 14
- 13
- 12
- 11
- 10
- 9
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1

- 15 W901A
- 14
- 13
- 12
- 11
- 10
- 9
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1

To TUNER UNIT on SCHEMATIC DIAGRAM-10

- 1 T.GND
- 2 +B(1)
- 3 SD
- 4 +B(2)
- 5 DET
- 6 Rch IN
- 7 CE
- 8 Lch IN
- 9 DI
- 10 DO
- 11 CL

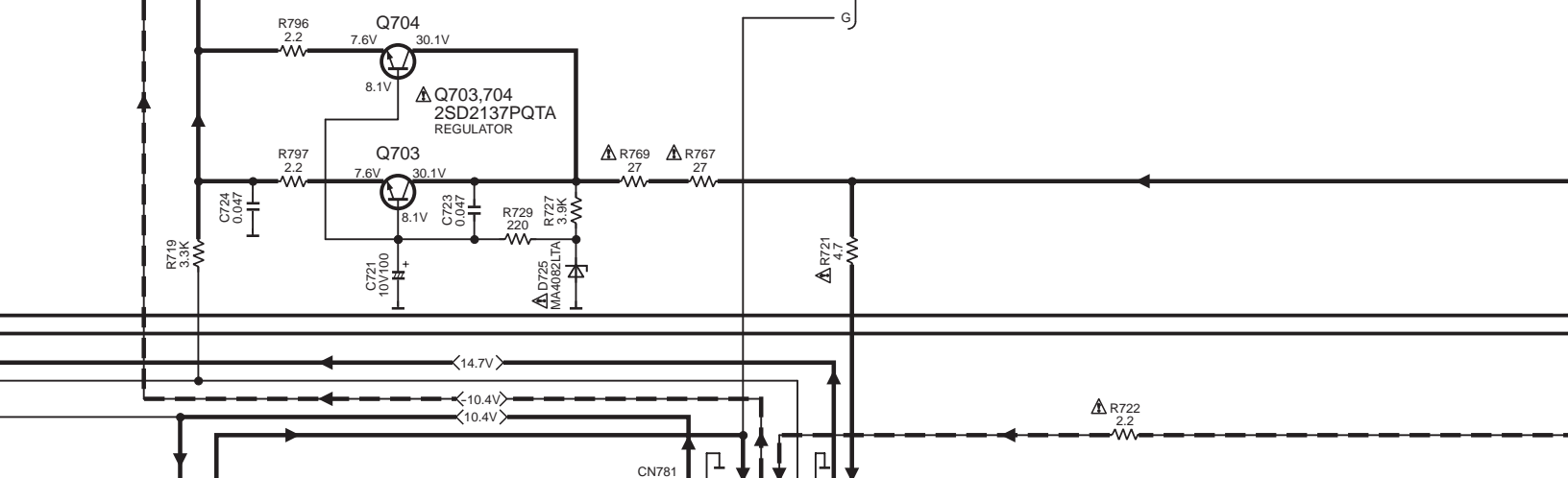
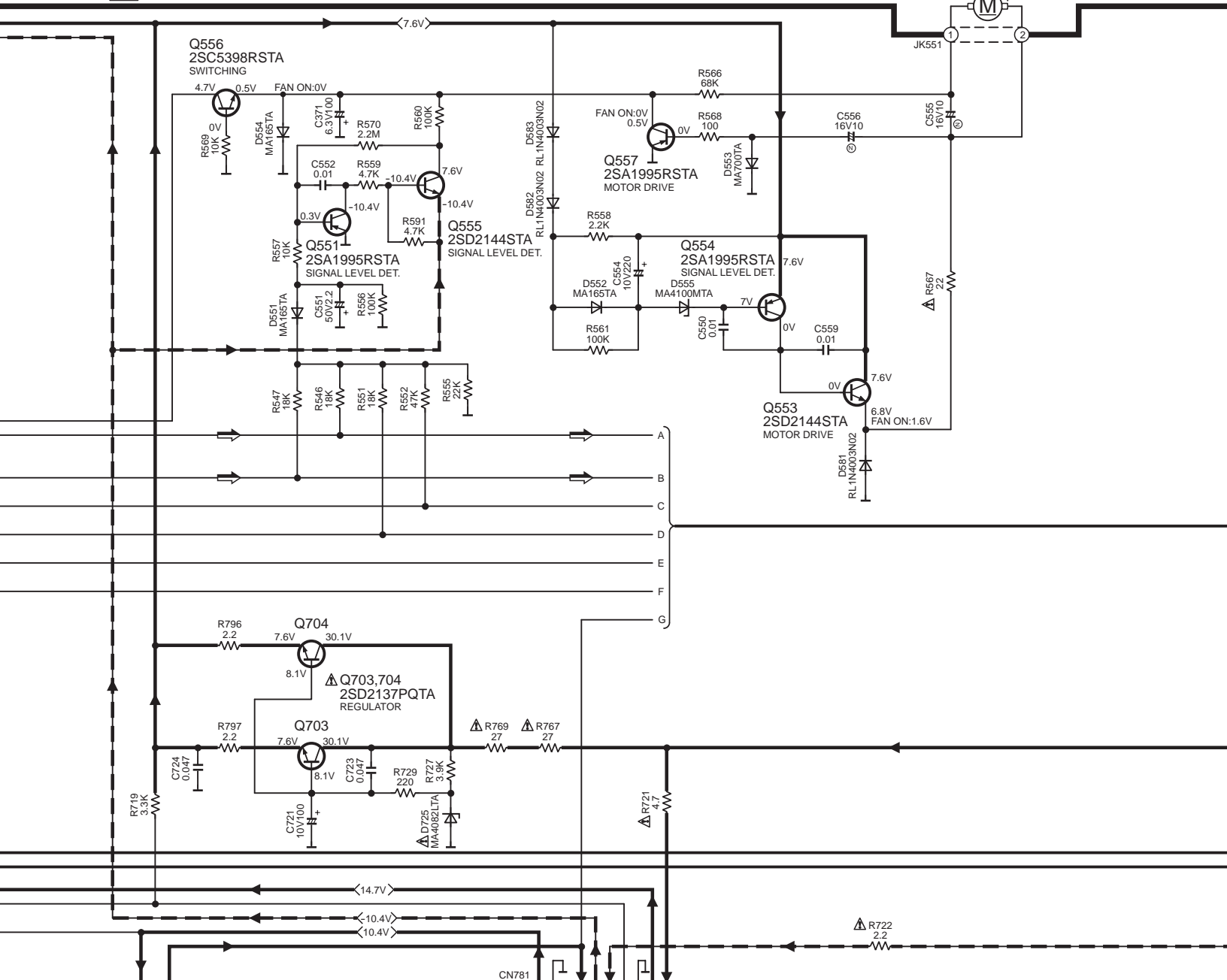


SCHEMATIC DIAGRAM-6

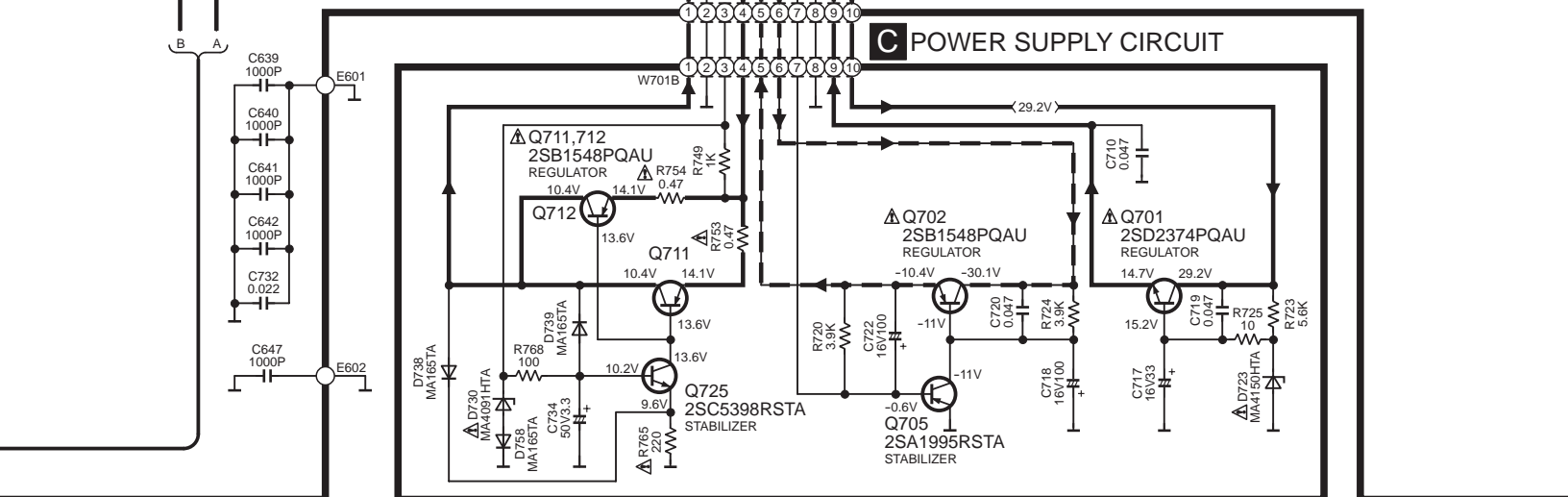
B MAIN CIRCUIT

— : POSITIVE VOLTAGE LINE
 - - - : NEGATIVE VOLTAGE LINE ⇨ : AUDIO SIGNAL LINE




FAN MOTOR

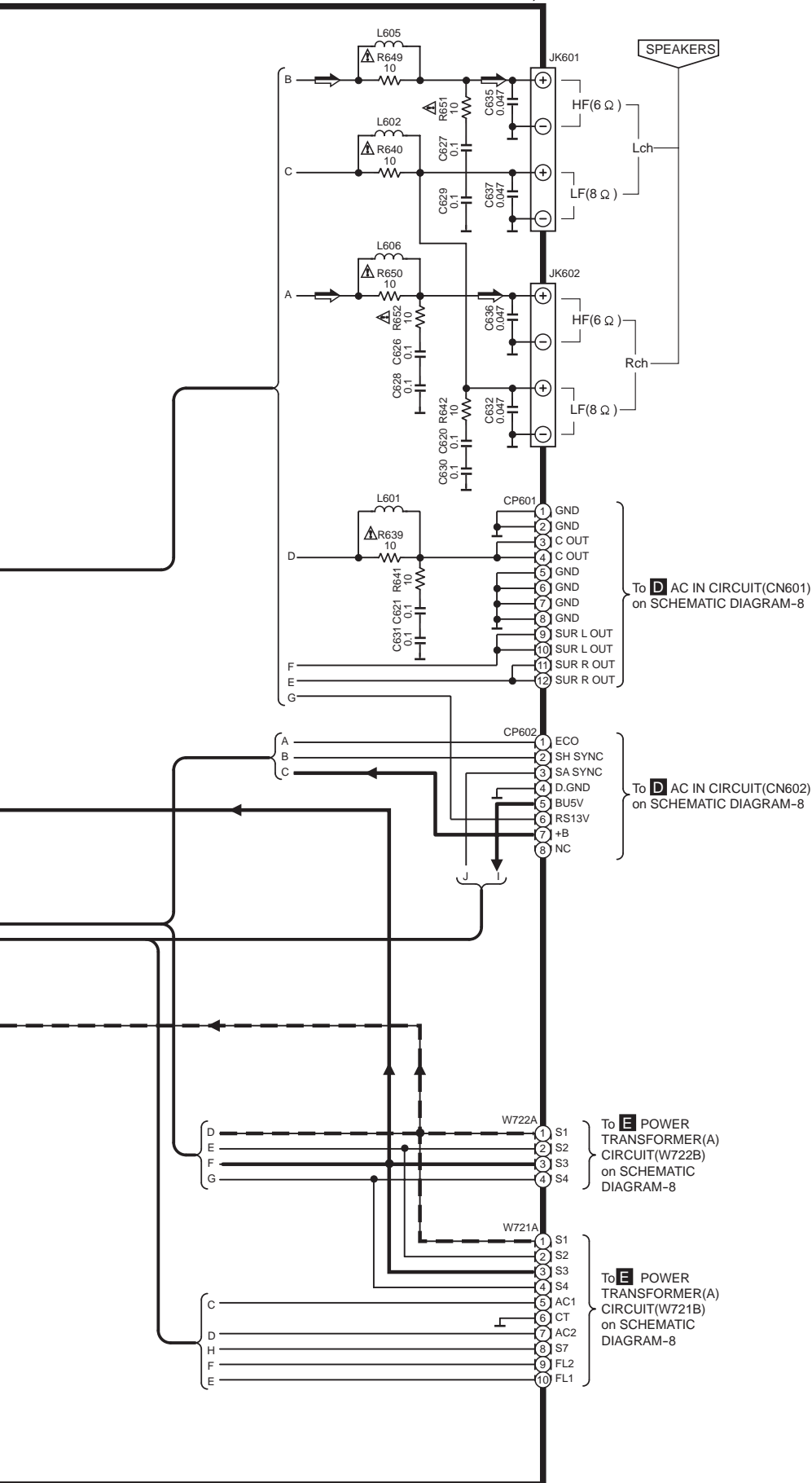


C POWER SUPPLY CIRCUIT



SCHEMATIC DIAGRAM-7

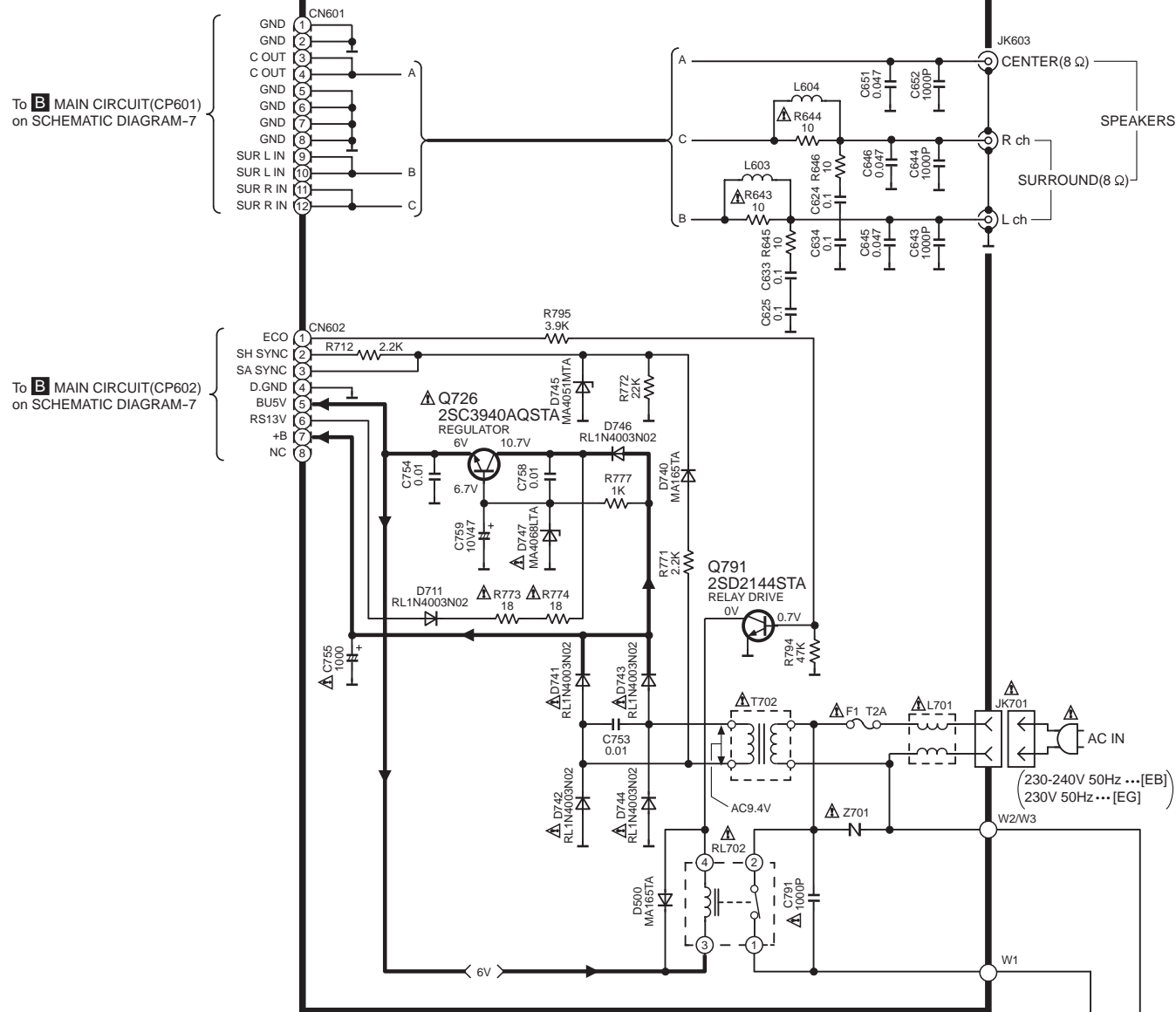
 : POSITIVE VOLTAGE LINE
 : NEGATIVE VOLTAGE LINE  : AUDIO SIGNAL LINE



SCHEMATIC DIAGRAM-8

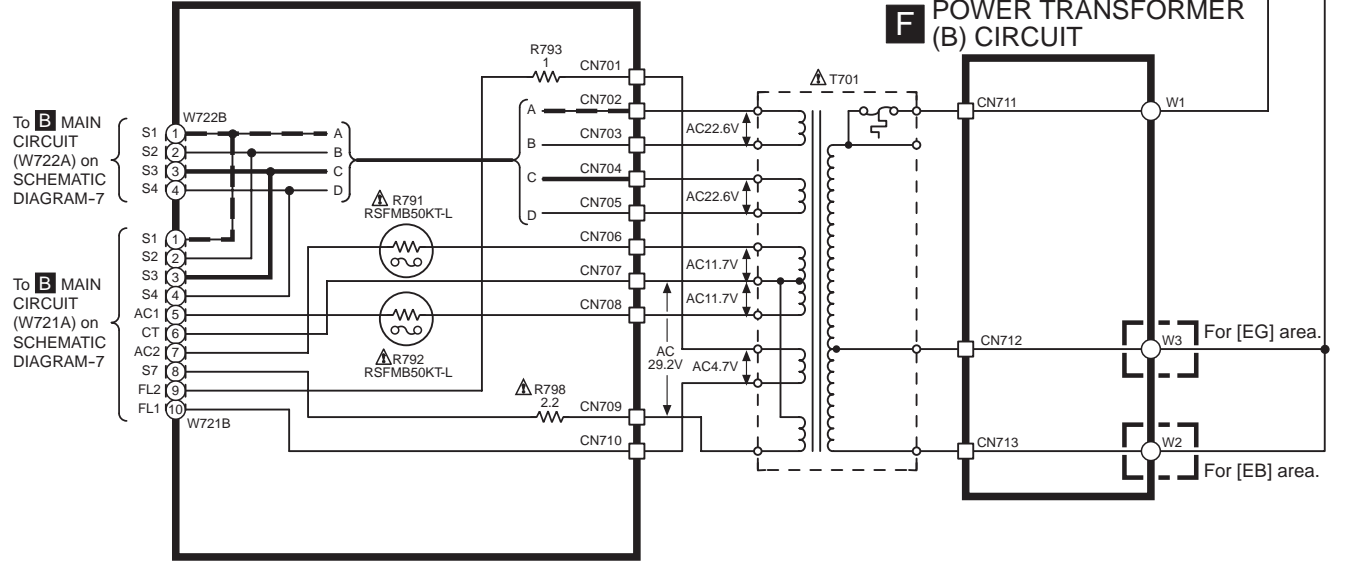
D AC IN CIRCUIT

→ : POSITIVE VOLTAGE LINE
 - - - - - : NEGATIVE VOLTAGE LINE



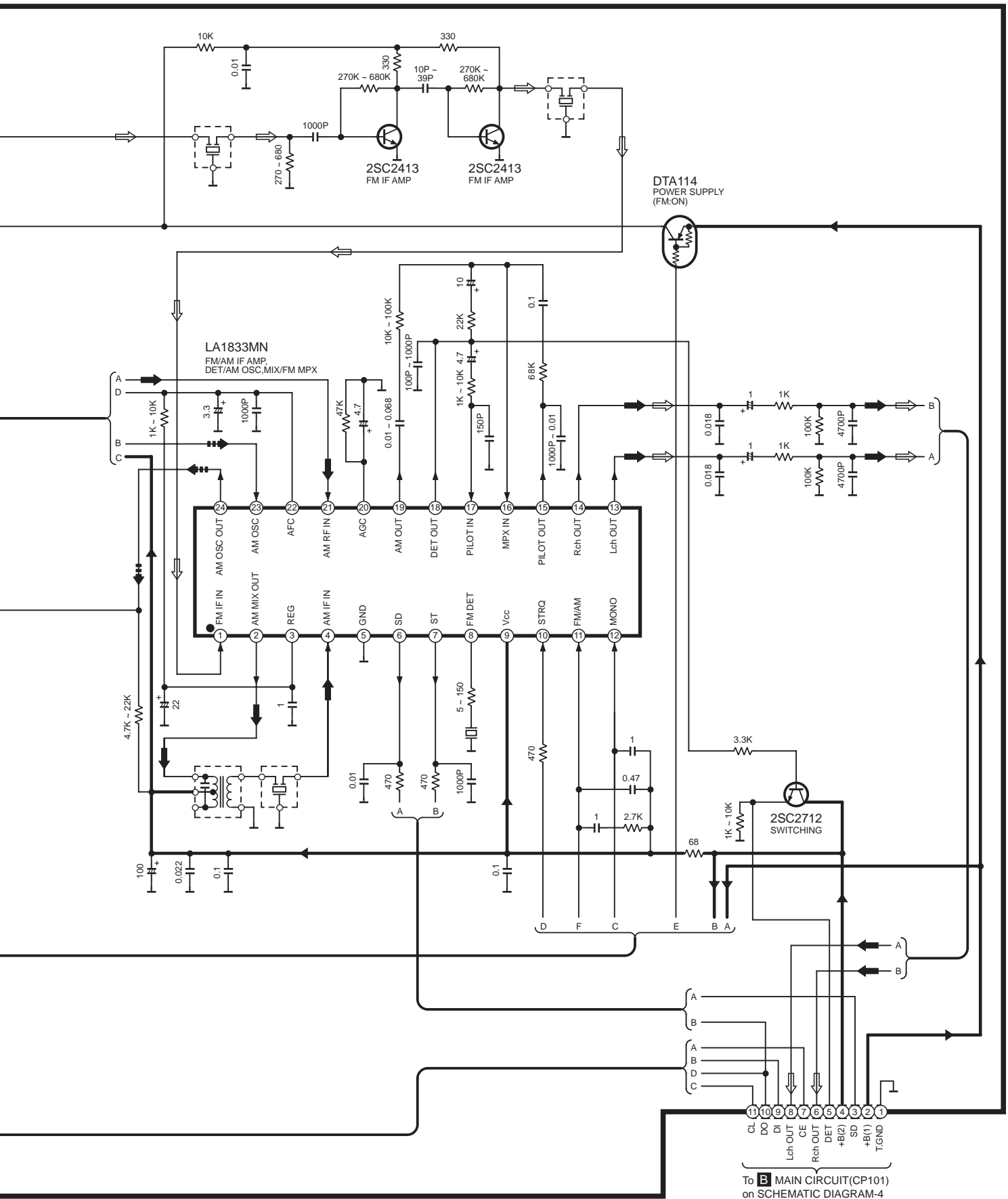
E POWER TRANSFORMER (A) CIRCUIT

F POWER TRANSFORMER (B) CIRCUIT



SCHEMATIC DIAGRAM-10

: POSITIVE VOLTAGE LINE
 : FM SIGNAL LINE
 : AM SIGNAL LINE
 : AM OSC SIGNAL LINE



To **B** MAIN CIRCUIT(CP101)
 on SCHEMATIC DIAGRAM-4