

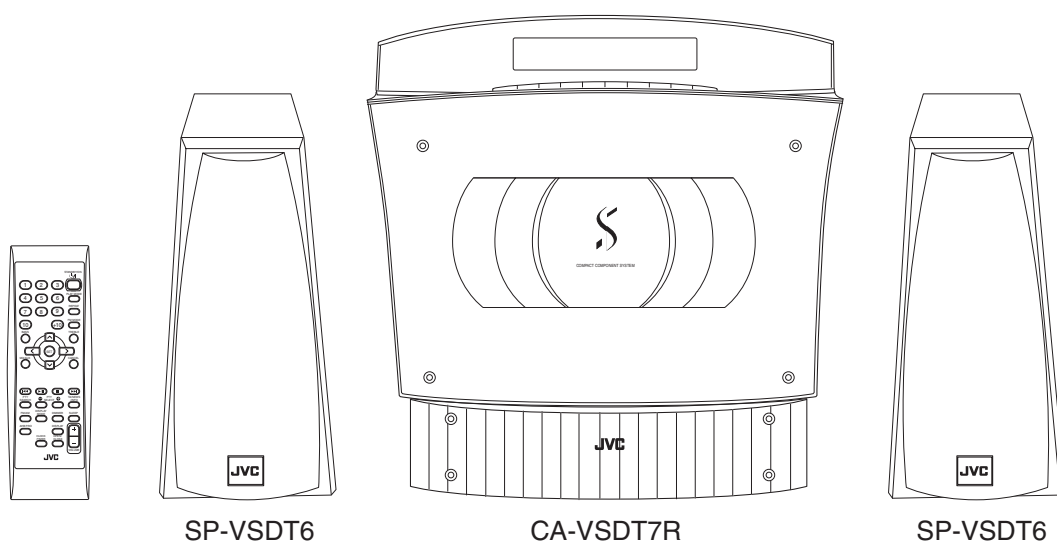
# JVC

# SCHEMATIC DIAGRAMS

## COMPACT COMPONENET SYSTEM

### VS-DT7R

CD-ROM No.SML200207



**COMPACT**  
**disc**  
DIGITAL AUDIO

**R·D·S**

#### Area suffix

E - - - - - Continental Europe  
EN - - - - - Northern Europe

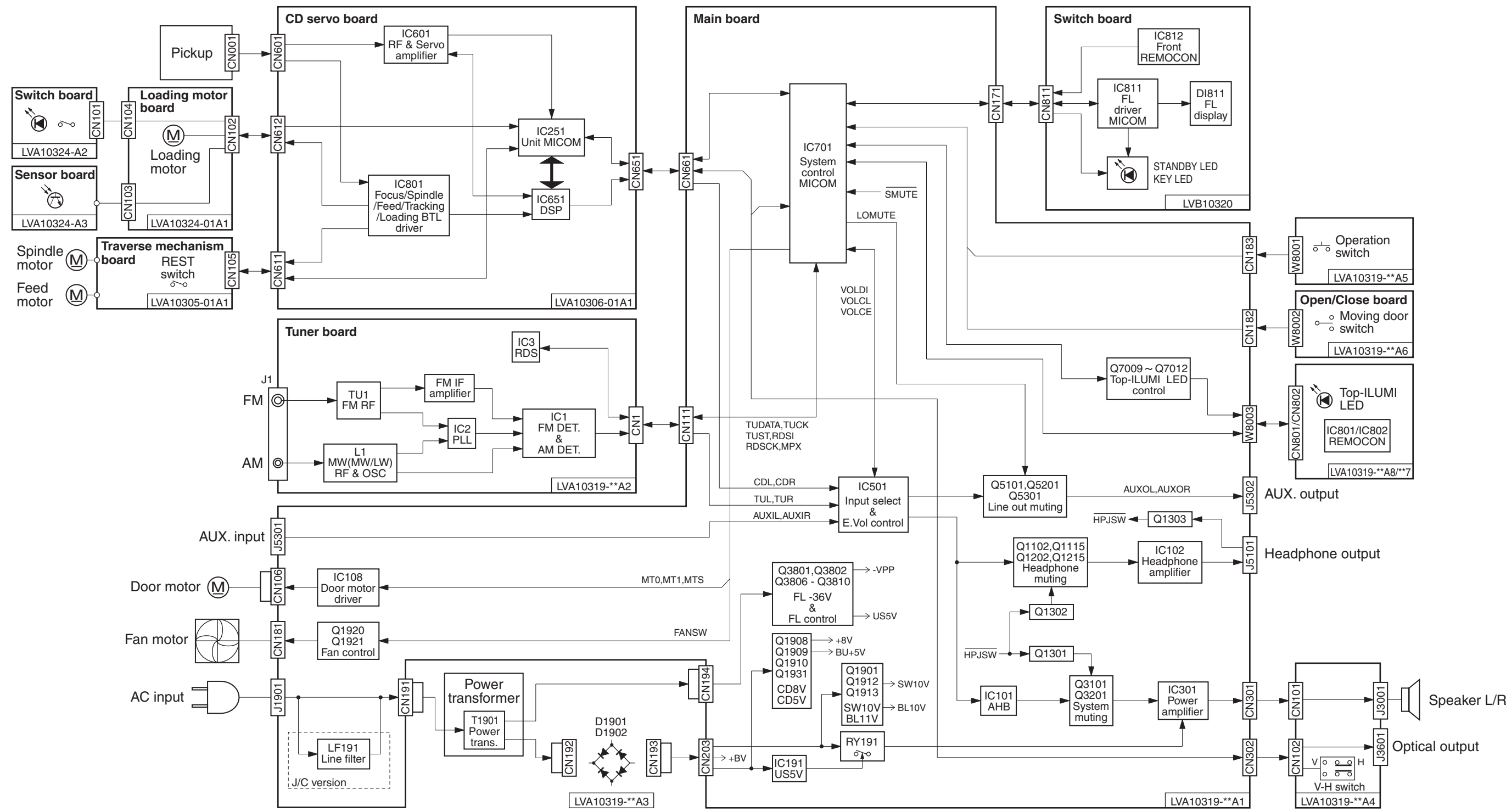
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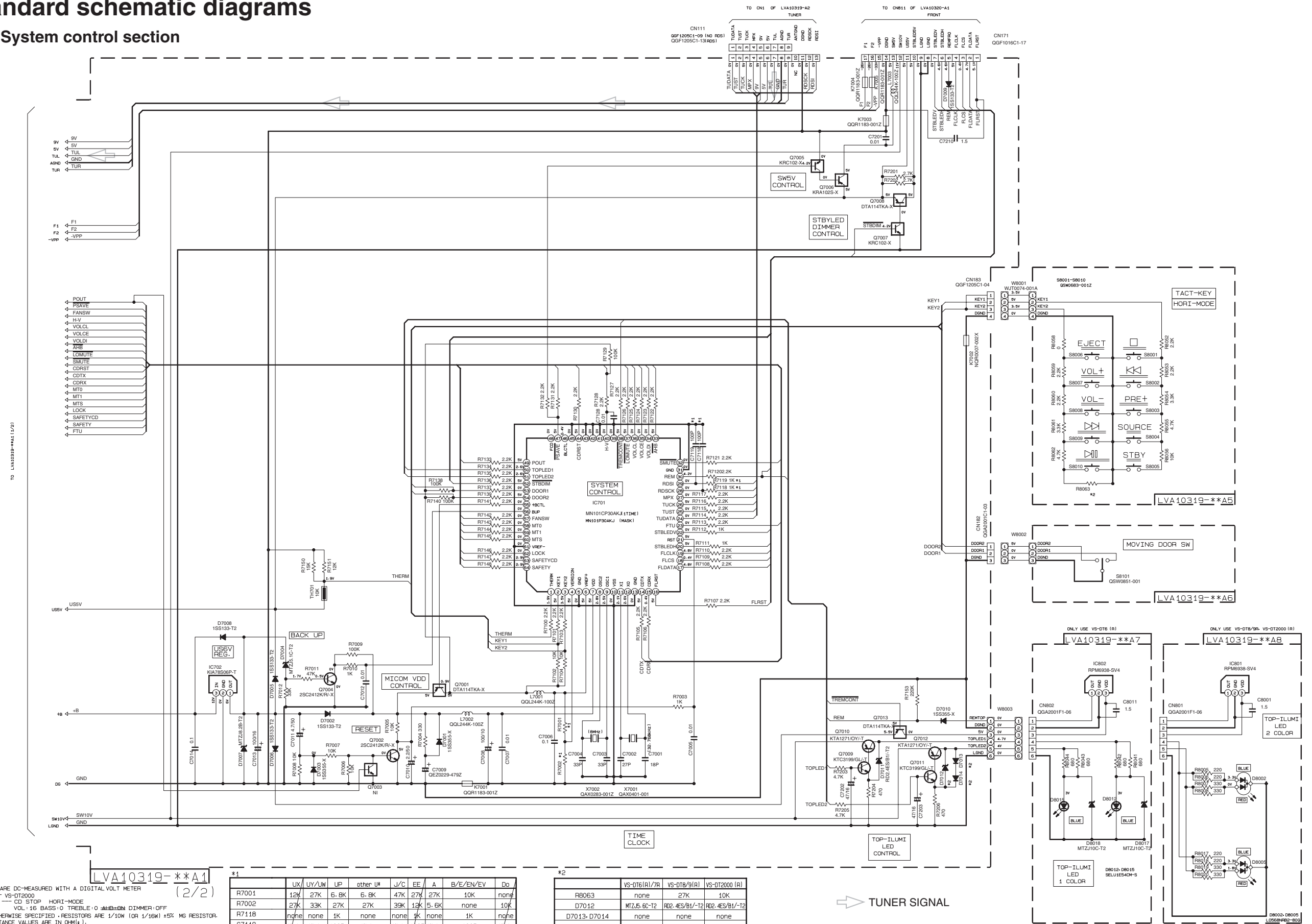
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (▣) and ICP (●) or identified by the "△" mark nearby are critical for safety.

(This regulation does not correspond to J and C version.)

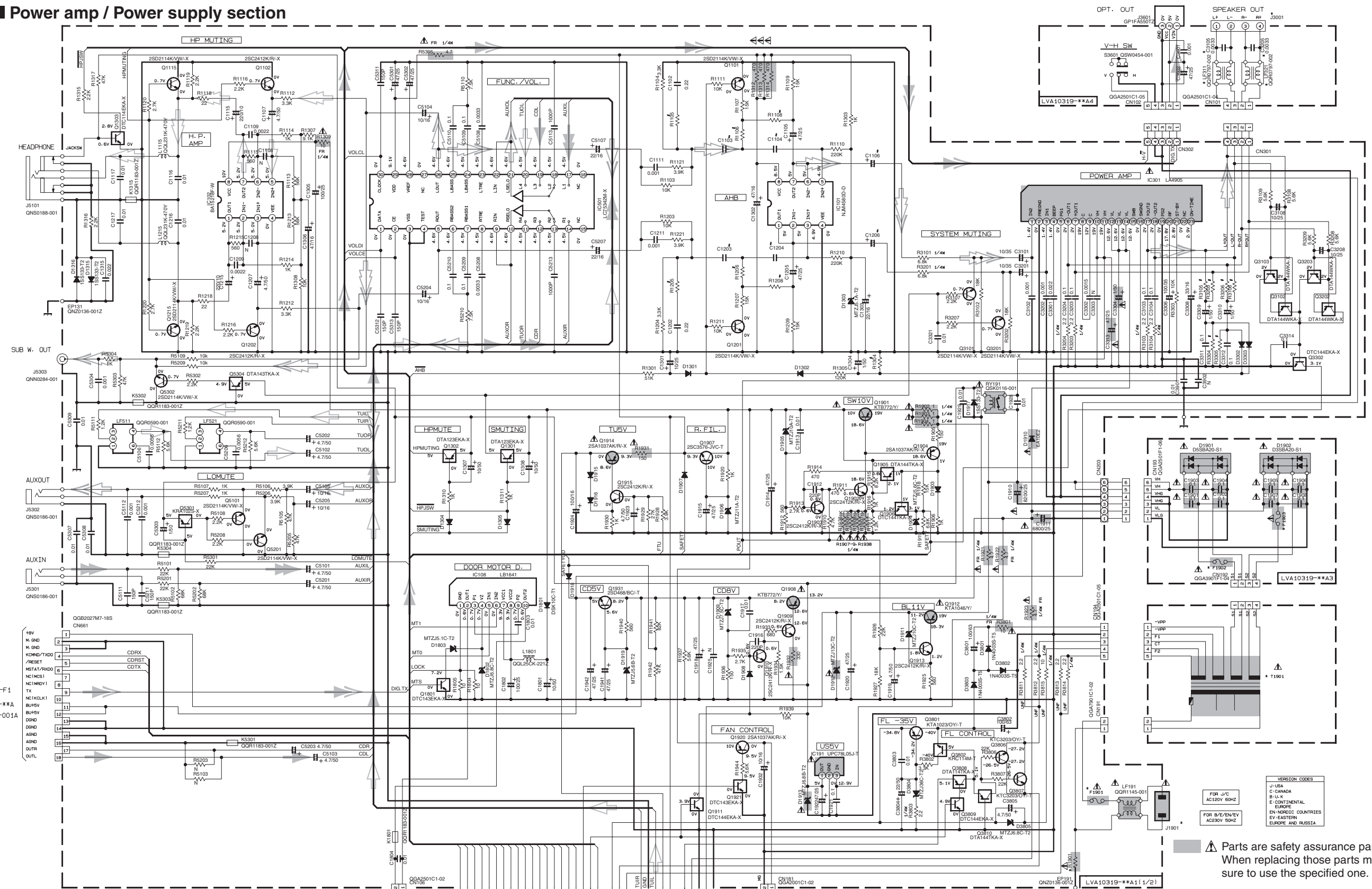
Block diagram



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## ■ Power amp / Power supply section



△ Parts are safety assurance parts.  
When replacing those parts make  
sure to use the specified one.

TABLE 1. DIGITAL TRANSISTOR			
<b>DTA123BCA-X</b> 	<b>DTA144NKA-X</b> 	<b>DTA114TKA-X</b> 	<b>DTA144TKA-X</b> 
<b>KRA102S-X</b> 	<b>DTA143TKA-X</b> 	<b>DTC114EKA-X</b> 	<b>DTC143EKA-X</b> 
<b>DTC144EKA-X</b> 	<b>DTC144TKA-X</b> 	<b>KRC114M-T</b> 	

- ```

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
   OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- CD STOP MODE V01-0

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE ± 5% METAL GLAZE RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN +F(PpF).
   ALL INDUCTANCE VALUES ARE IN +H(MHMH).
   ALL E CAPACITORS ARE SHOWN IN THE FORM
   OF CAPACITANCE +F(RATED VOLTAGE (V)).
   ALL DIODES ARE 1SS133




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| #         | MARK | R110E<br>R110E | R110E<br>R110E | R110E<br>R110E | R1304 | C1103<br>R110E | C1104<br>R110E | C110E<br>R110E | R310E<br>R310E | R310E<br>R310E | R3304<br>R310E |
|-----------|------|----------------|----------------|----------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|
| DT6(R)/7R | 2.7K | 2.2K           | 3.3K           | 120k           | 0.068 | 0.068          | 10/35          | 30K            | 30K            | 5.1K           |                |
| DT8(9 R)  | 2.2K | 3.9K           | 4.3K           | 220k           | 0.056 | 0.056          | 22/16          | 39K            | 39K            | 6.8K           |                |

| # MARK      |             | E/EN/VE/VP  | A           | UF          |
|-------------|-------------|-------------|-------------|-------------|
| R1901       | USED        | NONE        | NONE        | NONE        |
| F1901       | 1A/12BV     | 7500MAL     | 7500MAL     | 7500MAL     |
| F1902       | 8A/12BV     | T6. 3AL     | T6. 3AL     | T6. 3AL     |
| F1903       | 3.15A/12BV  | T3. 15AL    | T3. 15AL    | T3. 15AL    |
| T1901       | Q0736E-002  | Q0736E-003  | Q0736E-005  | Q0736E-005  |
| LP314/LP321 | NONE        | Q07077-002  | Q07077-002  | Q07077-002  |
| C31901-3208 | NONE        | Q. 0333     | Q. 0333     | Q. 0333     |
| QNB0092-001 | QNB0091-001 | QNB0091-001 | QNB0091-001 | QNB0091-001 |
| J3001       | QNB0092-002 | QNB0092-002 | QNB0092-002 | QNB0092-002 |

NOTE: MARK(\*) IS TO SHOW DEVIATION IN VERSIONS  
DETAILS ARE EXPLAINED NEAR MARK.

- ➡ TUNER SIGNAL
- ➡ CD SIGNAL
- ➡ DIGITAL SIGNAL
- ➡ LINE IN SIGNAL

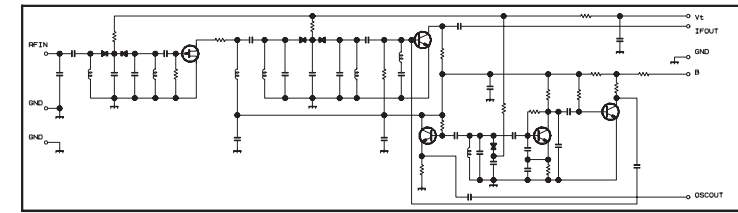
 LINE OUT SIGNAL  
 MAIN SIGNAL  
 HEADPHONE SIGNAL

## ■ Tuner section

|     | CONDITION      | PIN NO. | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12 | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  |
|-----|----------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| IC1 | FM NO SIGNAL   |         | 3.6 | 8.9 | 3.6 | 3.6 | 0   | 5.0 | 5.0 | 8.9 | 8.9 | 1.3 | 0.1 | 0  | 0.9 | 7.8 | 7.8 | 4.3 | 4.3 | 4.3 | 4.3 | 3.4 | 3.4 | 2.8 | 3.4 | 0   | 0   | 3.5 | 3.5 | 3.6 | 3.6 | 2.7 |
|     | FM 60dB STEREO |         | 3.6 | 8.9 | 3.6 | 3.6 | 0   | 0   | 5.0 | 8.9 | 8.9 | 1.3 | 4.3 | 0  | 0.9 | 7.8 | 7.8 | 4.3 | 4.3 | 4.3 | 4.3 | 3.4 | 3.4 | 2.8 | 3.4 | 0   | 0   | 3.6 | 3.6 | 3.6 | 3.6 | 2.7 |
|     | AM NO SIGNAL   |         | 3.5 | 9.0 | 3.5 | 3.5 | 0   | 5.0 | 5.1 | 9.0 | 2.6 | 1.3 | 0   | 0  | 0.9 | 4.7 | 5.5 | 4.3 | 4.3 | 4.3 | 4.3 | 3.3 | 3.2 | 2.8 | ust | 0.7 | 0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 2.1 |
| IC2 | FM NO SIGNAL   |         | 2.5 | 0   | 0   | 5.0 | 4.9 | 5.0 | 7.9 | 7.8 | 3.6 | 6.1 | 5.1 | 0  | 0   | 0   | 0   | 2.5 | 5.1 | 0.9 | 0.9 | 3.8 | 0   | 2.3 |     |     |     |     |     |     |     |     |

| Tr. NO.              | Q1          | Q5    |
|----------------------|-------------|-------|
| PIN NO.              | E C B E C B |       |
| FM 87.5MHz NO SIGNAL | 0 7.1 0.85  | 8.9 0 |
| AM 520kHz NO SIGNAL  | 0 0 0 9.0   | 0 8.9 |

| Tr. NO.             | Q2                | Q3        | Q4          |
|---------------------|-------------------|-----------|-------------|
| PIN NO.             | E C B E C B E C B |           |             |
| AM 520kHz NO SIGNAL | 0 0 0.7           | 0 0 0.7   | 0 3.6 0.7   |
| AM 144kHz NO SIGNAL | 0 0 0.3           | 0 0.3 0.3 | 3.6 3.6 3.6 |



## NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPACITANCE VALUES ARE IN pF(pF).
5. SI DIODES (▶) ARE 1SS133-T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.



➡ TUNER SIGNAL



## A



➡ CD SIGNAL  
➡ DIGITAL SIGNAL

TO AMP

# FL control section

## NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL-  
CONDITION ---POW-ON; FUNC:CD-STOP  
HORI-MODE

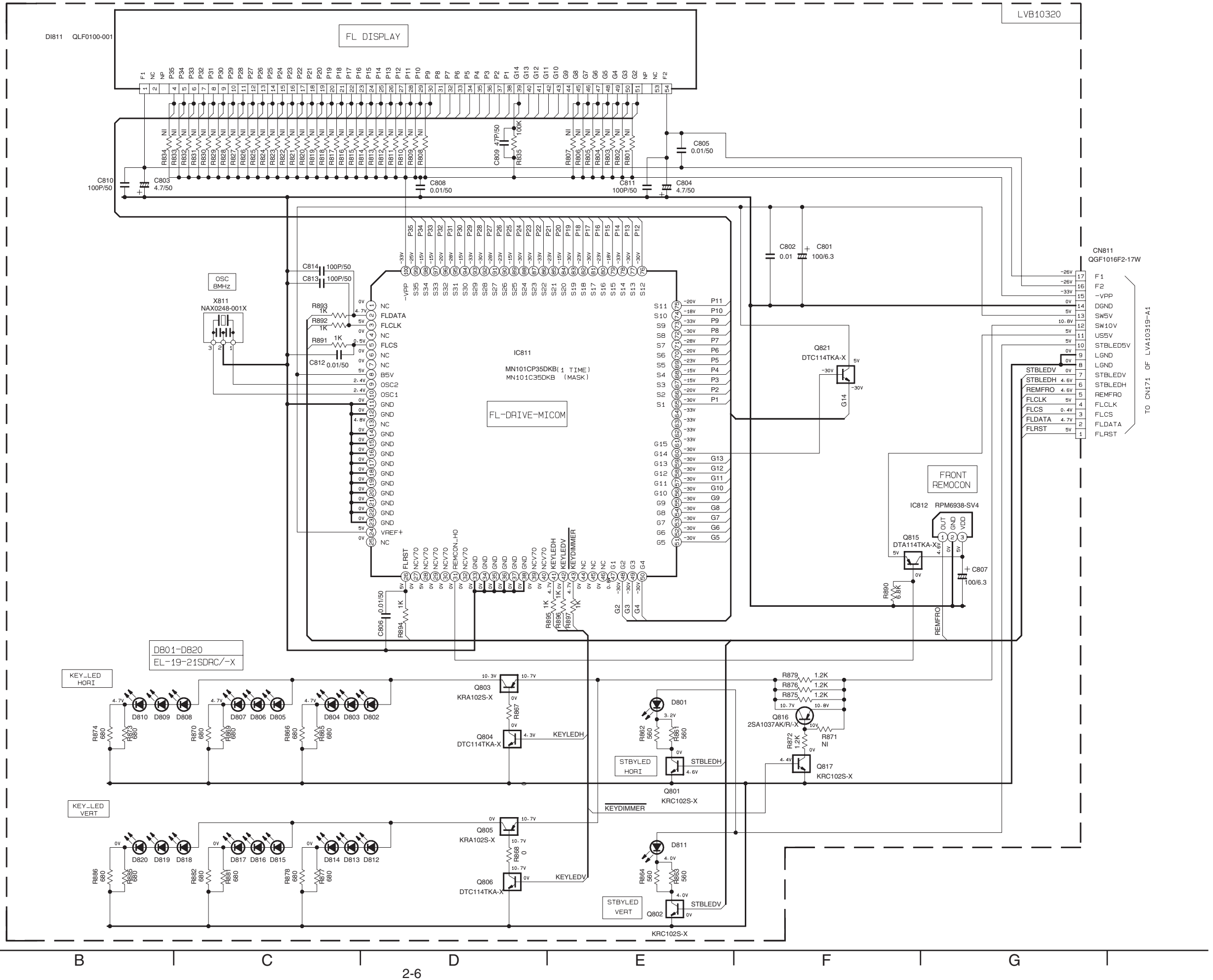
2. UNLESS OTHERWISE SPECIFIED.

ALL RESISTORS ARE 1/16W±5% METAL GLAZE RESISTOR. (OR 1/10W)

ALL RESISTANCE VALUES ARE IN OHM(Ω).

ALL CAPACITANCE VALUES ARE IN μF(P=PF).

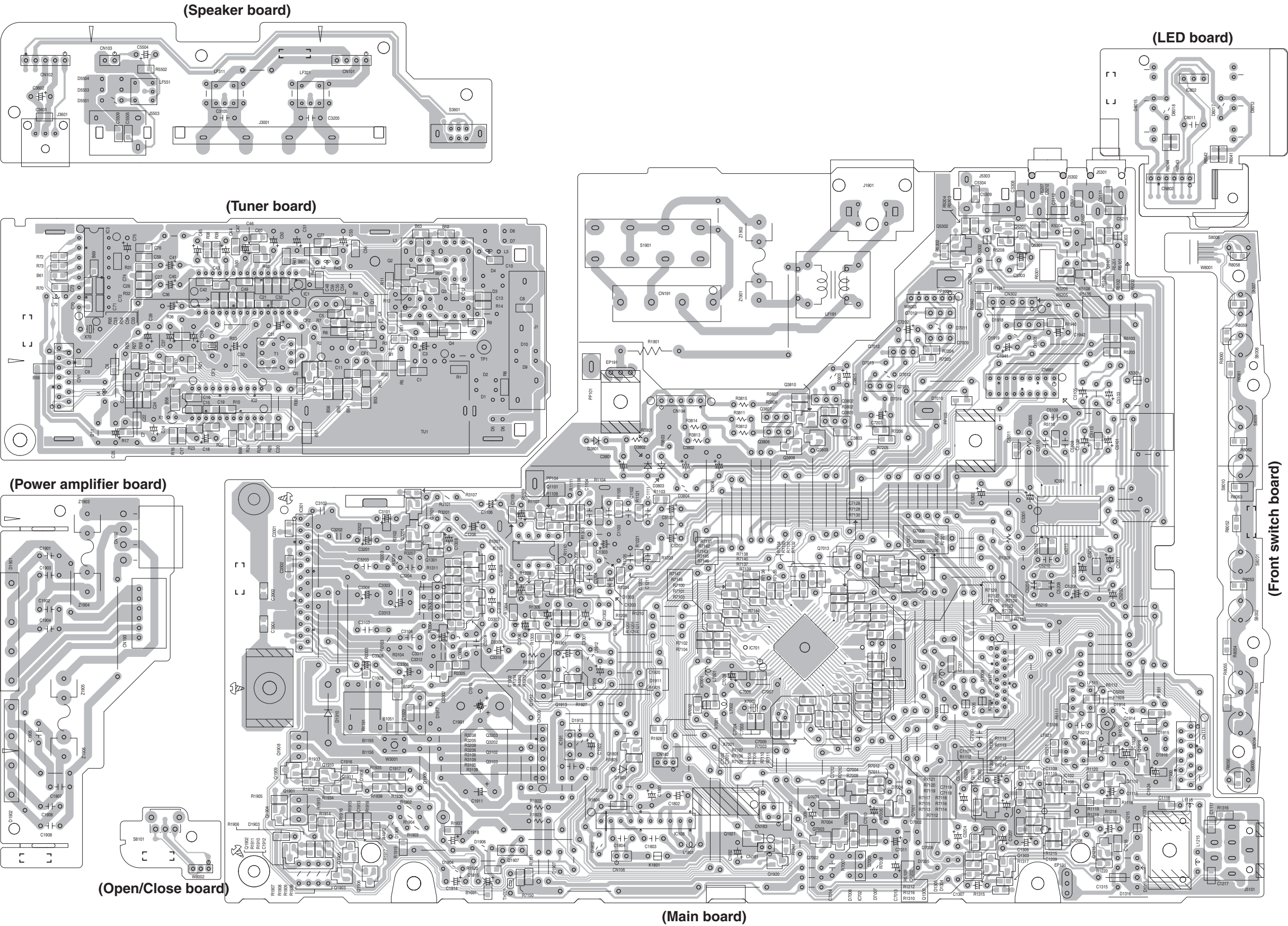
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).





Printed circuit boards

■ Main board



A

B

C

D

E

F

G



< M E M O >



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