

# STR-DE335/SE391/V323

## SERVICE MANUAL



Photo: STR-DE335 US model

*US Model*

*STR-DE335/SE391*

*Canadian Model*

*AEP Model*

*E Model*

*Australian Model*

*STR-DE335*

*Chinese Model*

*STR-V323*

### SPECIFICATIONS

#### Audio power specifications (US model)

#### POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20<sup>a)</sup> – 20,000 Hz, rated 100 watts per channel minimum RMS power, with no more than 0.09 %<sup>b)</sup> total harmonic distortion from 250 milliwatts to rated output.

#### STR-SE391:

- a) 40Hz
- b) 0.5 %

#### Amplifier section

Power output

Stereo mode

STR-DE335/V323

US, Canadian models:  
(8 ohms at 20 Hz – 20 kHz  
less than 0.09 % total  
harmonic distortion)  
100 W + 100 W

AEP model:  
(DIN 1 kHz, 4 ohms)  
80 W + 80 W

Malaysia, Singapore,  
Chinese, Australian  
models:

Rated power:  
(8 ohms at 1 kHz,  
THD 0.7 %)  
80 W + 80 W

Reference power:  
(8 ohms at 20 Hz – 20 kHz,  
less than 0.09 % total  
harmonic distortion)  
70 W + 70 W

E model:

Rated power: (8 ohms at  
1kHz, THD 0.7 %)  
100 W + 100 W

Reference power:

(8 ohms at 20 Hz – 20 kHz,  
less than 0.09 % total  
harmonic distortion)  
95 W + 95 W

STR-SE391

(8 ohms at 40 Hz – 20 kHz,  
less than 0.5 % total  
harmonic distortion)  
100 W + 100 W

STR-DE335/V323

US, Canadian models:  
(8 ohms at 1 kHz, THD  
0.8%)

Front: 80 W/ch  
Center: (Pro Logic mode)  
80 W

Rear: 80 W/ch  
AEP model:  
(DIN 1 kHz, 4 ohms)

Front: 70 W/ch  
Center: 70 W  
(only in PRO LOGIC  
mode)

Rear: 70 W/ch  
E, Malaysia, Singapore,  
Chinese, Australian  
models:

Rated power: (8 ohms at  
1 kHz, THD 0.7 %)  
Front: 80 W/ch  
Center: (Pro Logic mode)  
80 W  
Rear: 80 W/ch

Surround mode  
and 5.1 CH/DVD  
mode  
(Reference)

Frequency  
response

STR-SE391

(8 ohms at 1 kHz,  
THD 0.5 %)  
Front: 80 W/ch  
Center: (Pro Logic mode)  
80 W

Reference power:  
(8 ohms 20 Hz – 20 kHz,  
less than 0.09 % total  
harmonic distortion)

Front: 70 W/ch  
Center: (Pro Logic mode)  
70 W  
Rear: 70 W/ch

RMS power:  
(8 ohms at 1 kHz,  
THD 10 %)  
Front: 100 W/ch  
Center: (Pro Logic mode)  
100 W

Rear: 100 W/ch  
PHONO: RIAA  
equalization curve  $\pm 0.5$  dB  
(STR-SE391)

TV/SAT (TV/LD), CD,  
MD/TAPE, VIDEO  
5.1 CH/DVD:  
10 Hz – 50 kHz  $\pm 1$  dB

– Continued on next page –

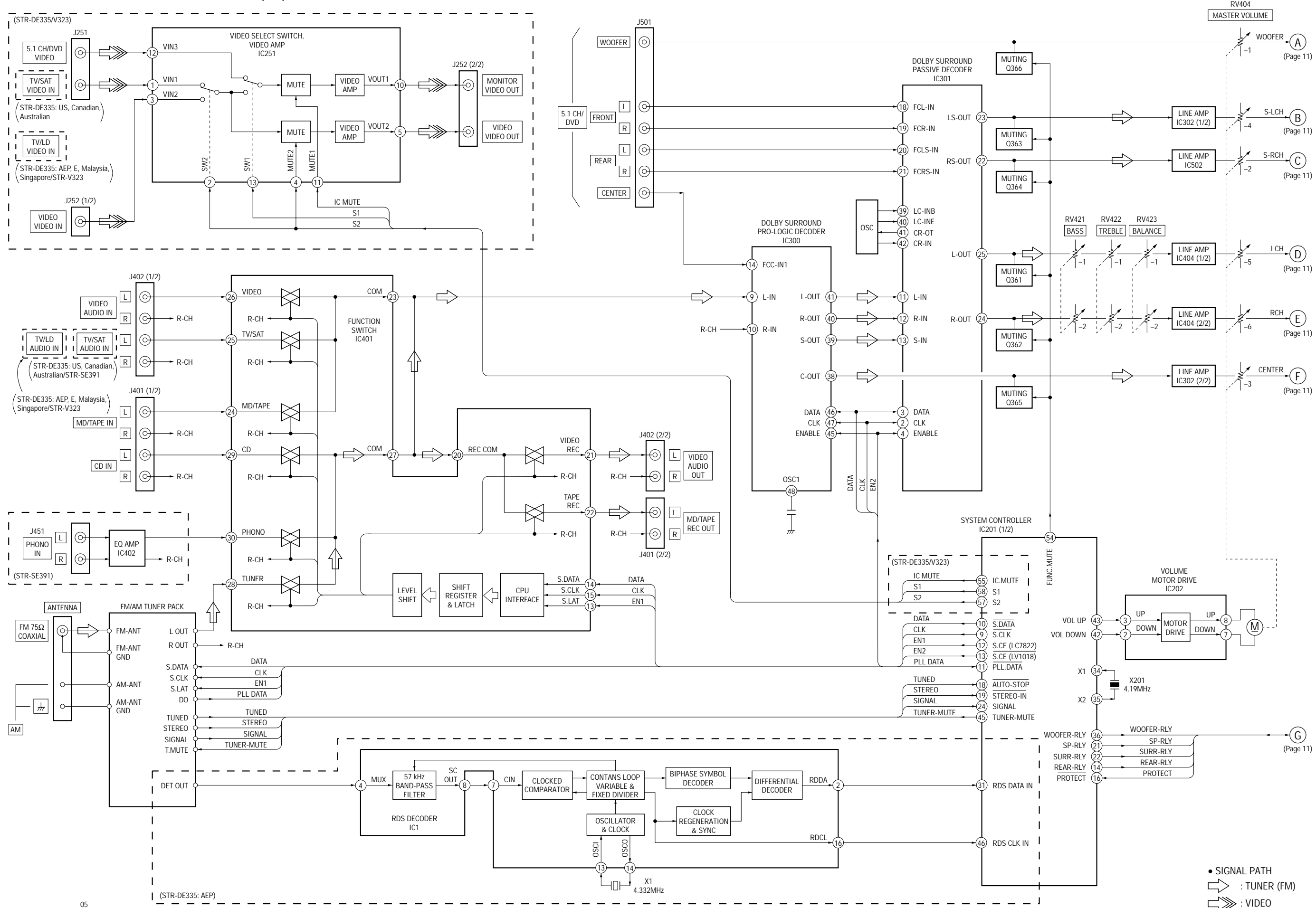
## FM STEREO/FM-AM RECEIVER



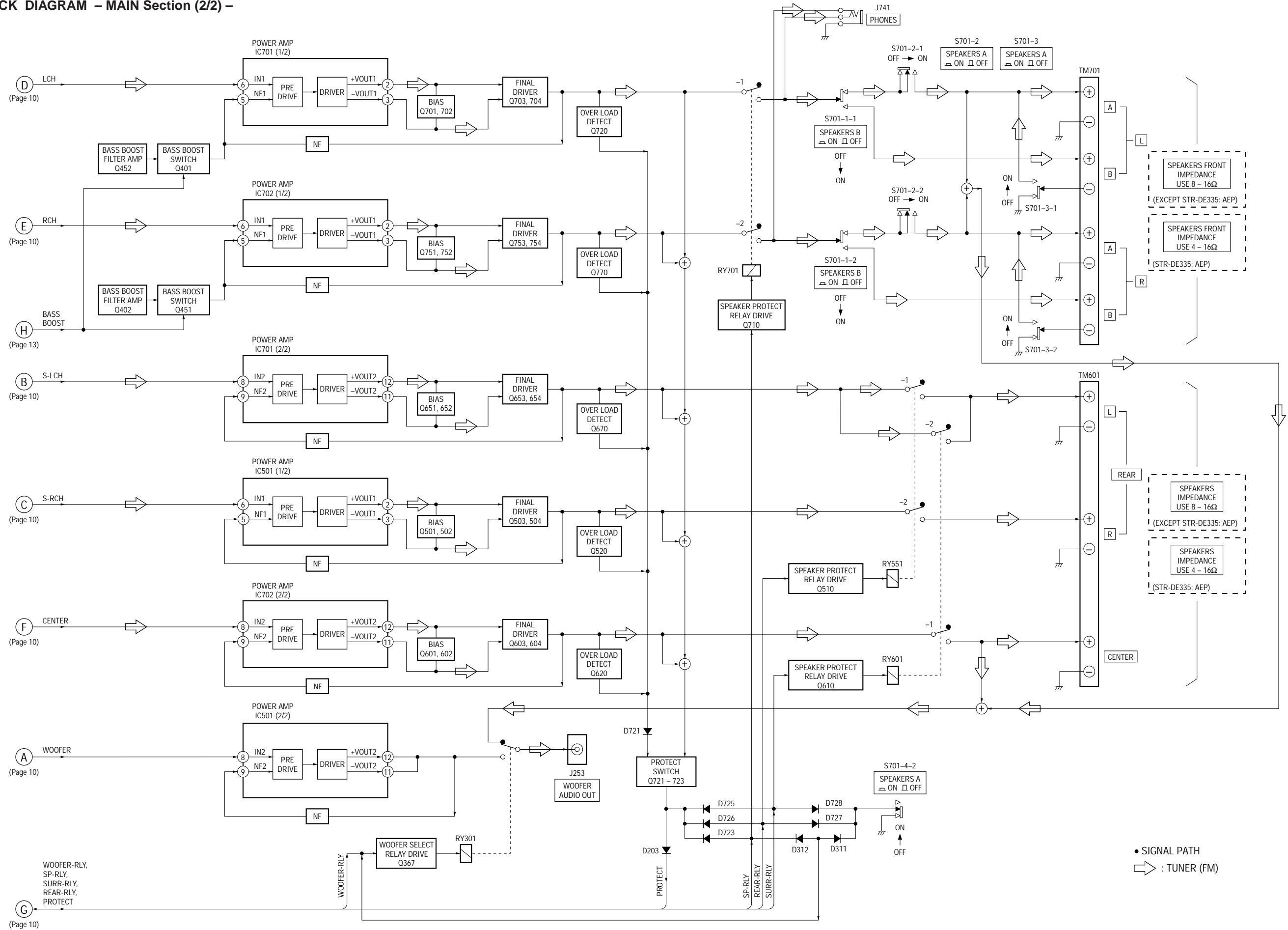
# SONY®

SECTION 5  
DIAGRAMS

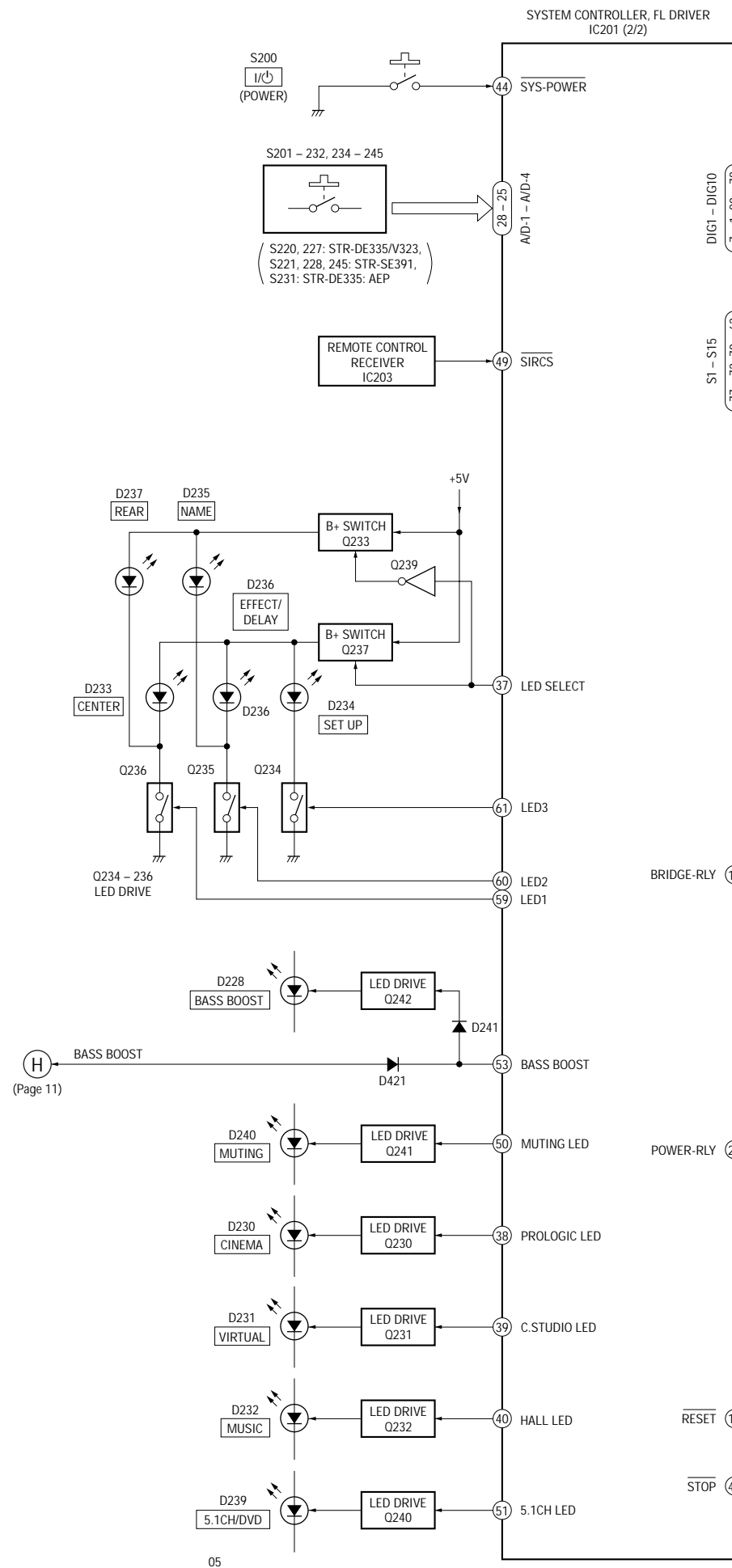
5-1. BLOCK DIAGRAM – MAIN Section (1/2) –



5-2. BLOCK DIAGRAM - MAIN Section (2/2) -

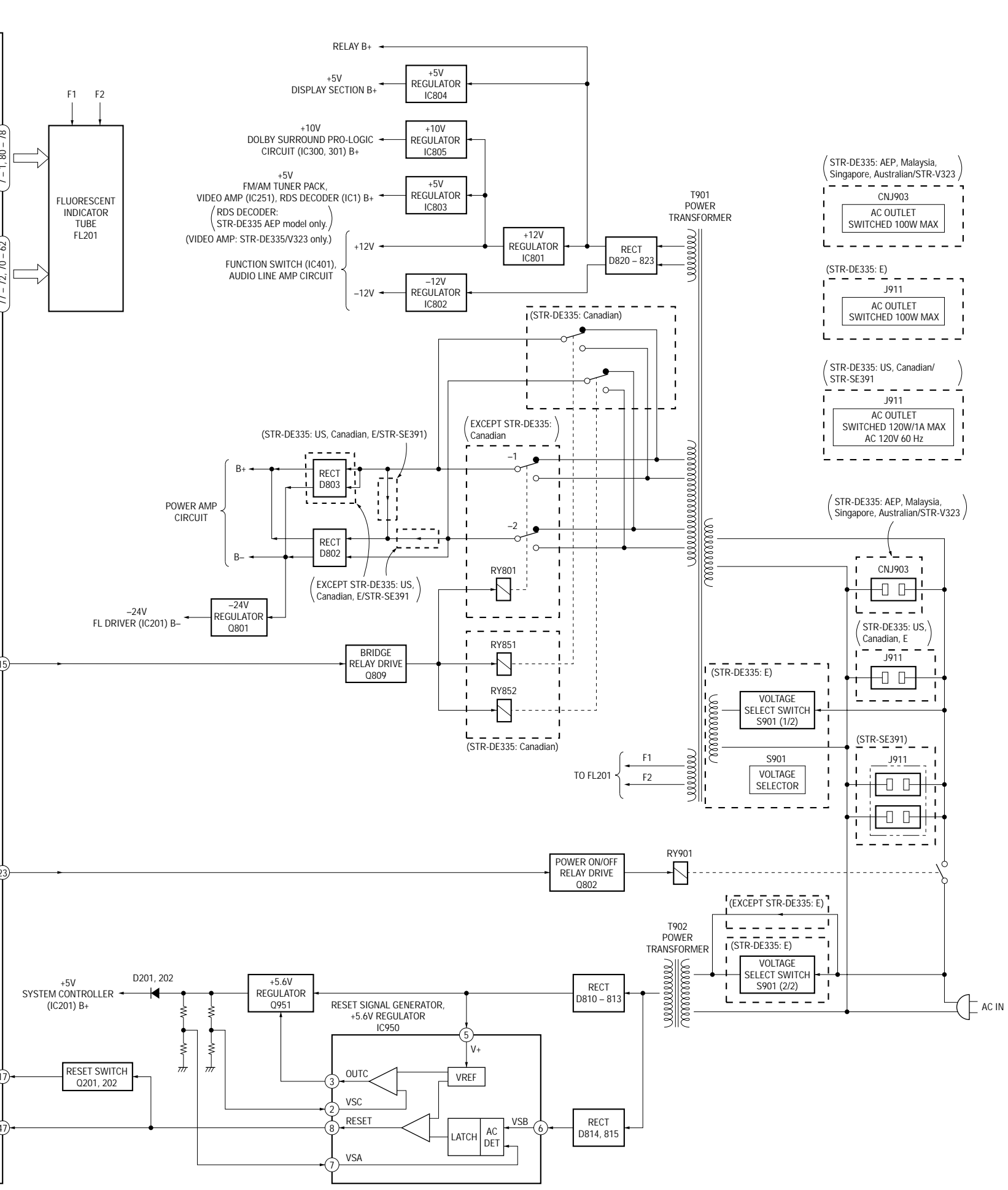


5-3. BLOCK DIAGRAM – DISPLAY/POWER SUPPLY Section –

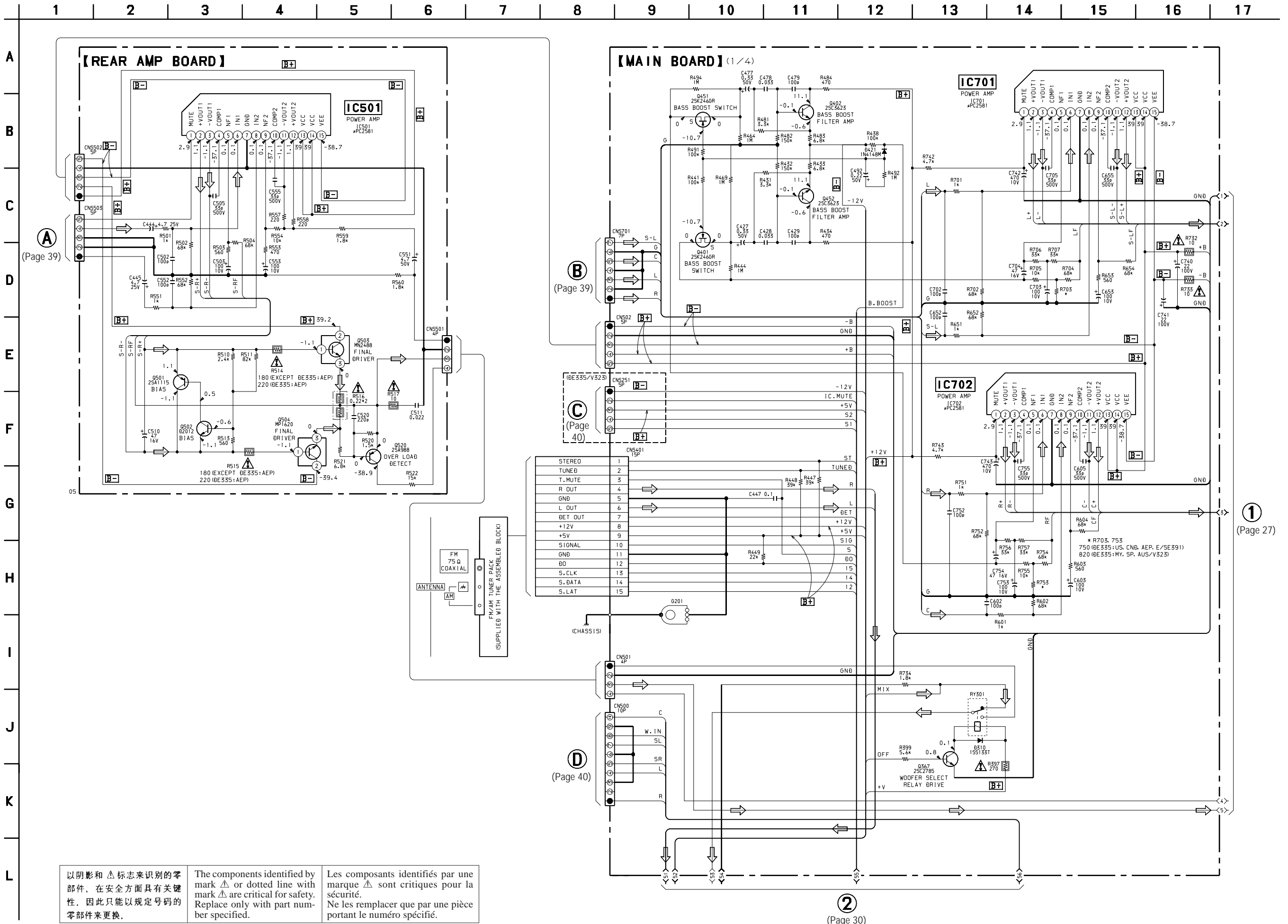


(Page 11)

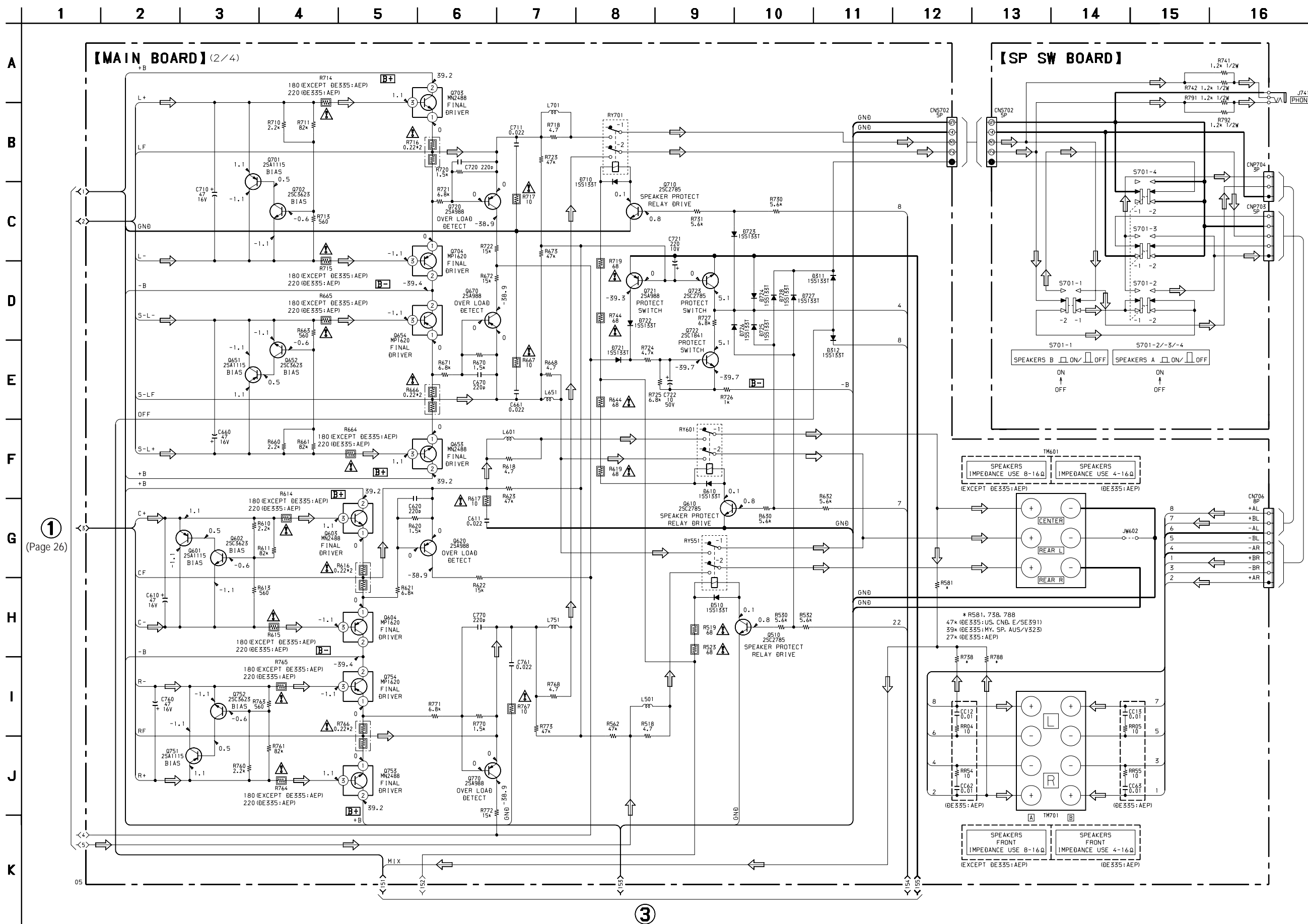
05



5-7. SCHEMATIC DIAGRAM – MAIN Board (1/4)/REAR AMP Board – • See page 42 for IC Block Diagrams.



5-8. SCHEMATIC DIAGRAM – MAIN Board (2/4)/SP SW Board –

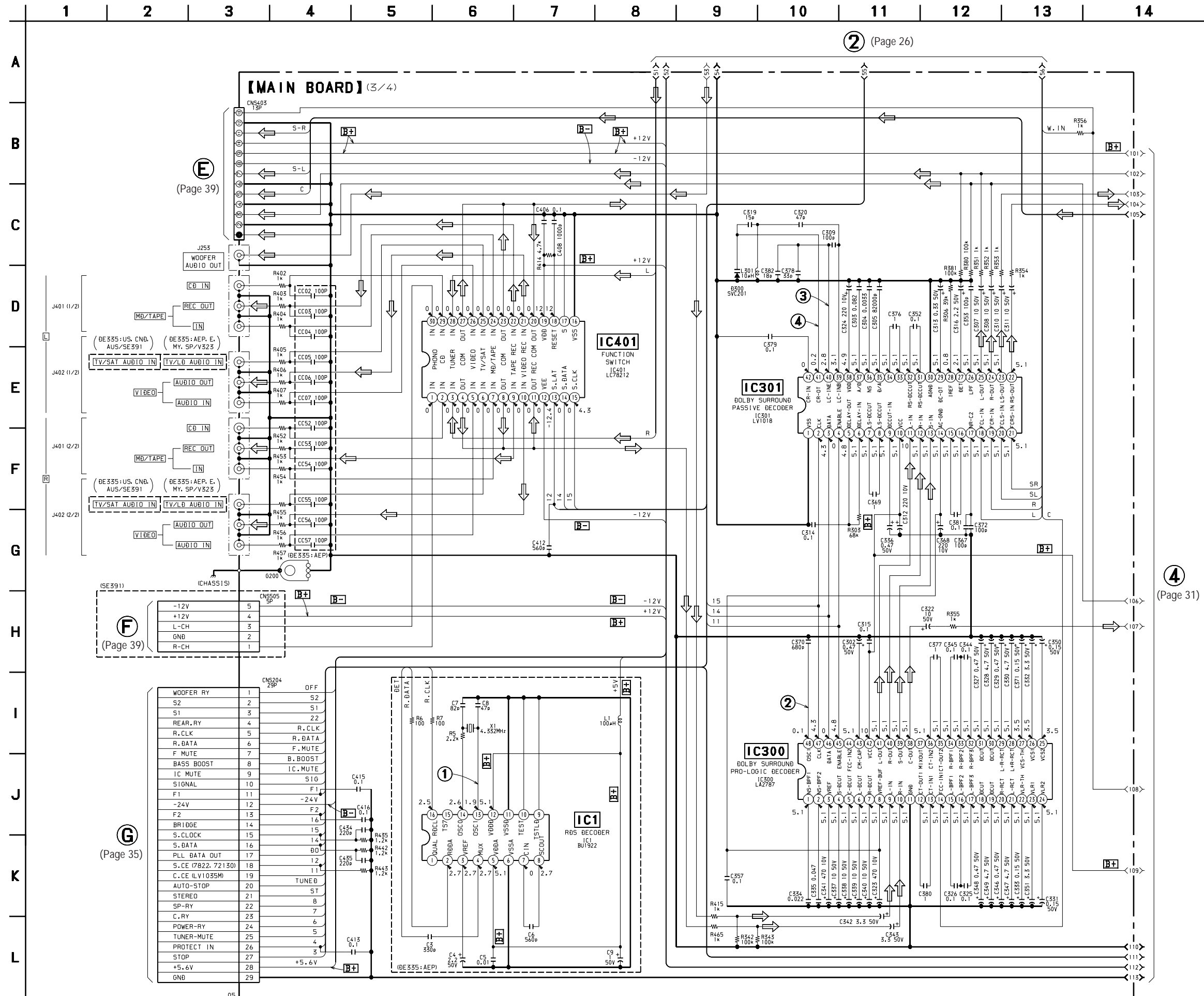


① (Page 26)

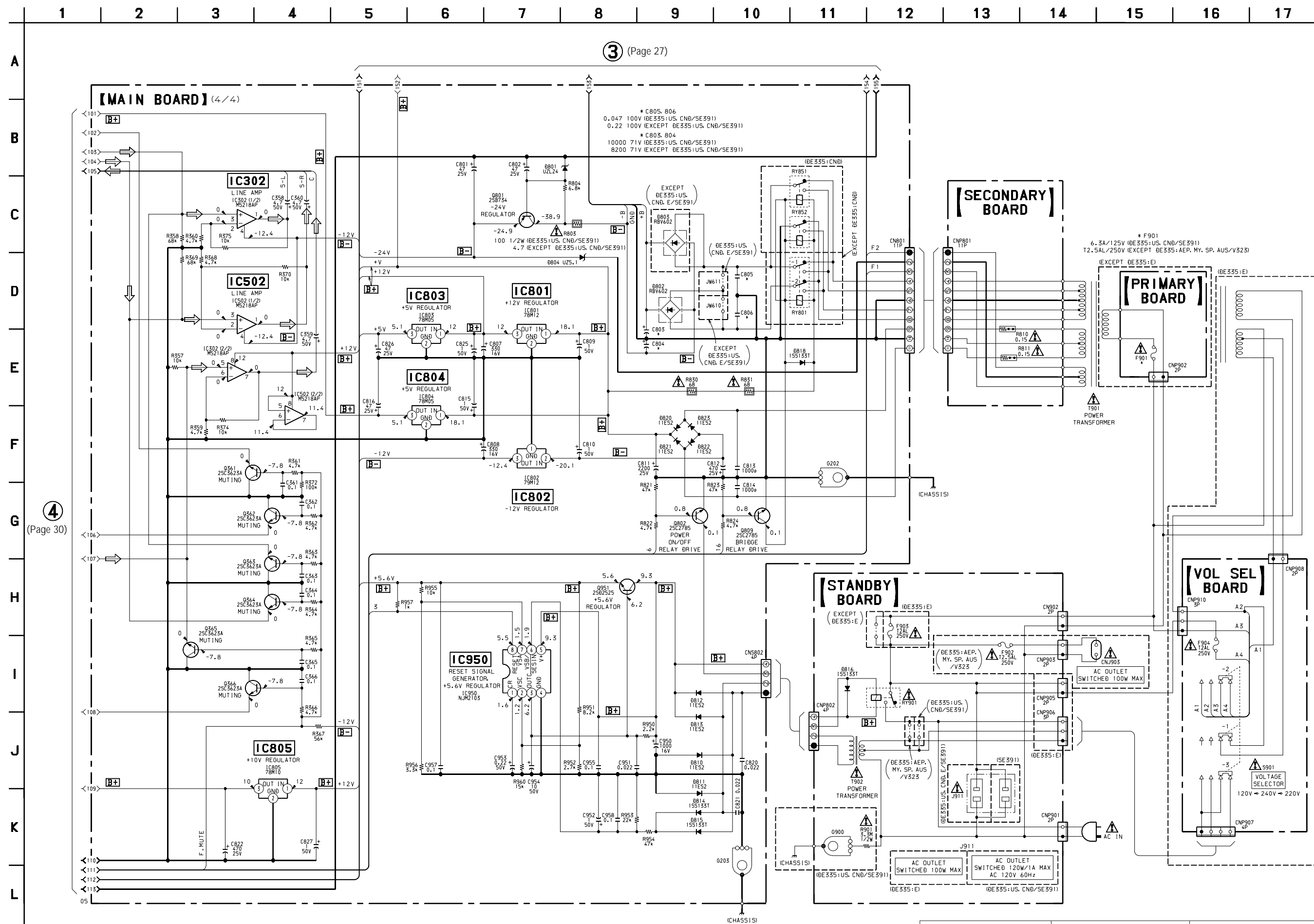
③ (Page 31)

<p>以阴影和 <math>\Delta</math> 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。</p>	<p>The components identified by mark <math>\Delta</math> or dotted line with mark <math>\Delta</math> are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque <math>\Delta</math> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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5-9. SCHEMATIC DIAGRAM – MAIN Board (3/4) – • See page 18 for Waveforms. • See page 41 for IC Block Diagrams.



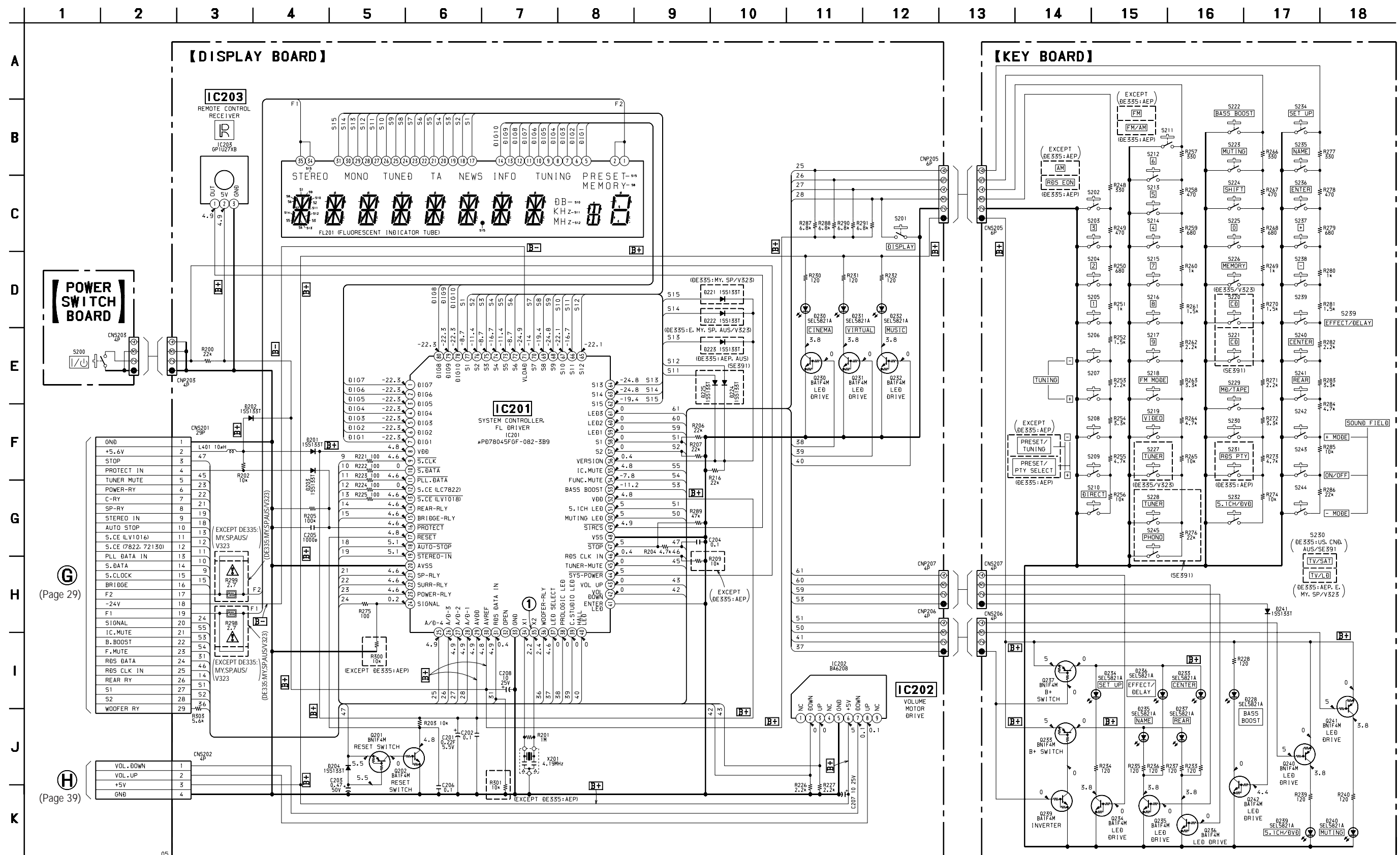
5-10. SCHEMATIC DIAGRAM – MAIN Board (4/4)/SECONDARY Board/STANDBY Board/PRIMARY Board/VOL SEL Board – • See page 43 for IC Block Diagram.



<p>以阴影和 <math>\Delta</math> 标志来识别的零 部件，在安全方面具有关键 性。因此只能以规定号码的 零部件来更换。</p>	<p>The components identified by mark <math>\Delta</math> or dotted line with are critical for safety. Replace only with part num- ber specified.</p>	<p>Les composants identifiés par une marque <math>\Delta</math> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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5-12. SCHEMATIC DIAGRAM – PANEL Section – • See page 18 for Waveform. • See page 43 for IC Block Diagram.



**POWER SWITCH BOARD**

5200	1	+
5200	2	-
5200	3	+
5200	4	-

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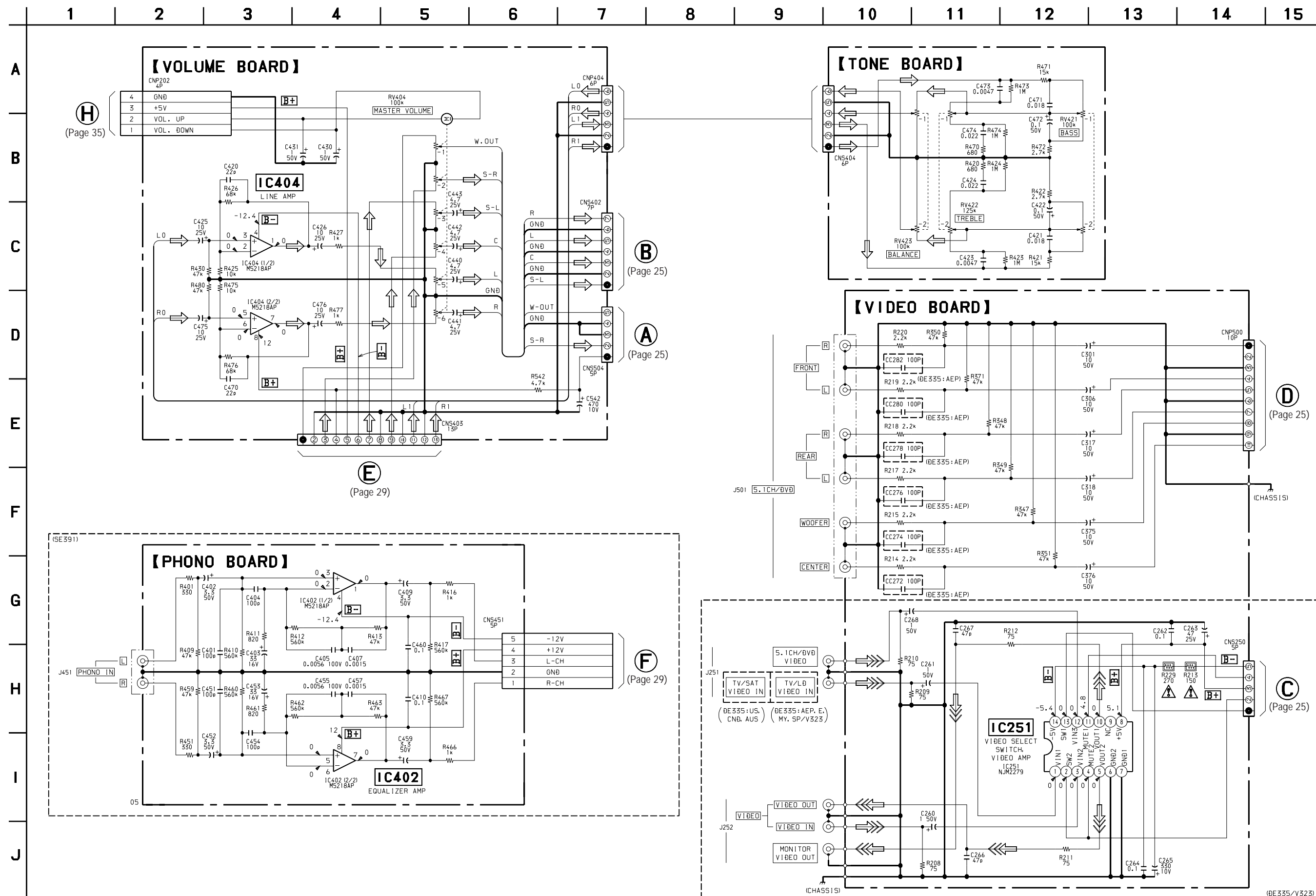
(Page 39)

以阴影和  $\triangle$  标志来识别的零  
部件，在安全方面具有关键  
性。因此只能以规定号码的  
零部件来更换。

The components identified by  
mark  $\triangle$  or dotted line with  
are critical for safety.  
Replace only with part num-  
ber specified.

Les composants identifiés par une  
marque  $\triangle$  sont critiques pour la  
sécurité.  
Ne les remplacer que par une pièce  
portant le numéro spécifié.

5-14. SCHEMATIC DIAGRAM – VOLUME Board/TONE Board/VIDEO Board/PHONO Board – • See page 43 for IC Block Diagram.



以阴影和  $\Delta$  标志来识别的零  
部件、在安全方面具有关键  
性。因此只能以规定号码的  
零部件来更换。

The components identified by  
mark  $\Delta$  or dotted line with  
mark  $\Delta$  are critical for safety.  
Replace only with part num-  
ber specified.

Les composants identifiés par une  
marque  $\Delta$  sont critiques pour la  
sécurité.  
Ne les remplacer que par une pièce  
portant le numéro spécifié.