

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^{a)} – 20,000 Hz, rated 100 watts per channel minimum RMS power, with no more than 0.09 %^{b)} 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

Surround mode
and 5.1 CH/DVD
mode
(Reference)

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

Frequency
response

STR-SE391
(8 ohms at 1 kHz,
THD 0.5 %)
Front: 80 W/ch
Center: (Pro Logic mode)
80 W
Rear: 80 W/ch
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 ± 0.5 dB
(STR-SE391)
TV/SAT (TV/LD), CD,
MD/TAPE, VIDEO
5.1 CH/DVD:
10 Hz – 50 kHz ± 1 dB

– Continued on next page –

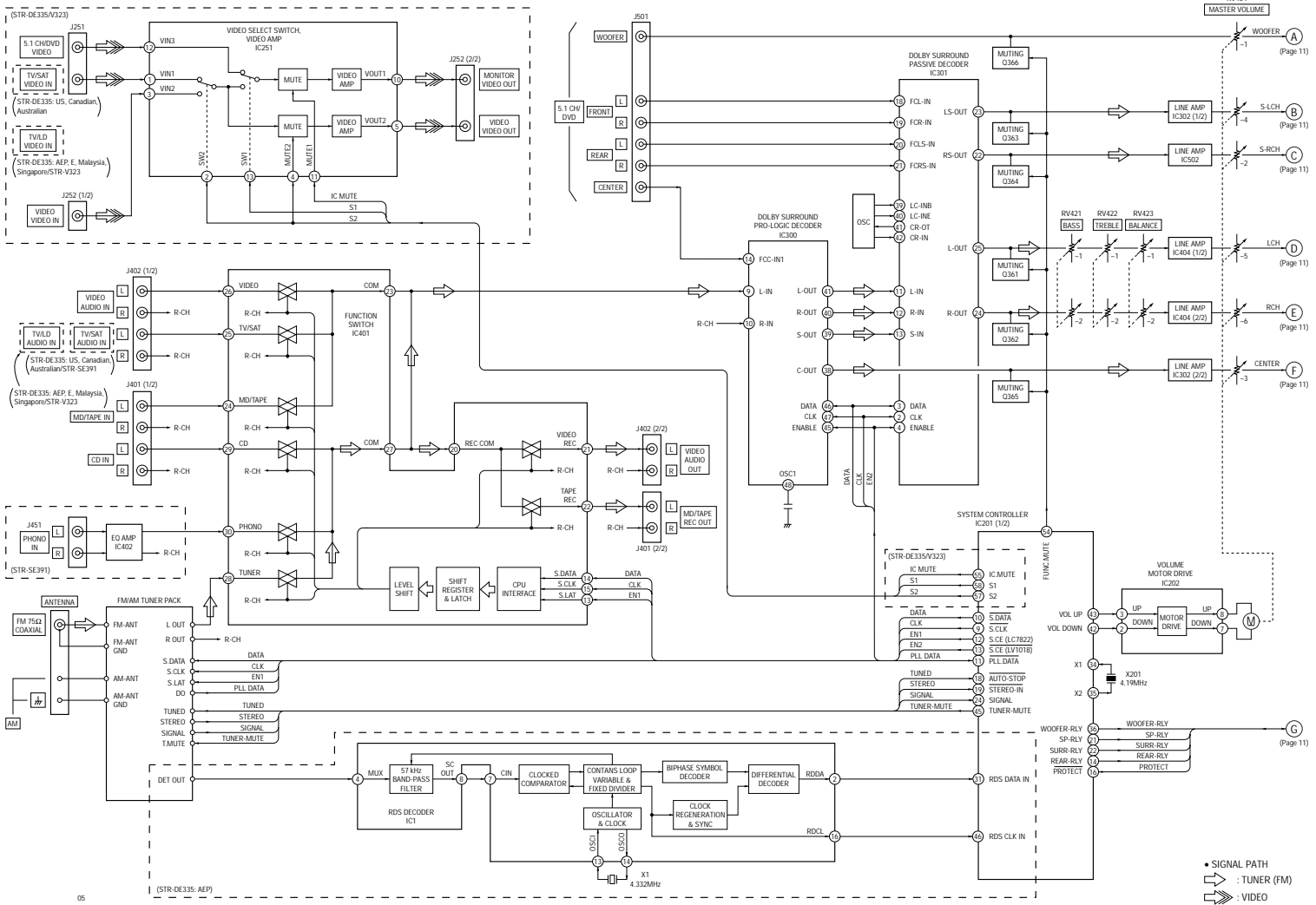
FM STEREO/FM-AM RECEIVER



SONY®

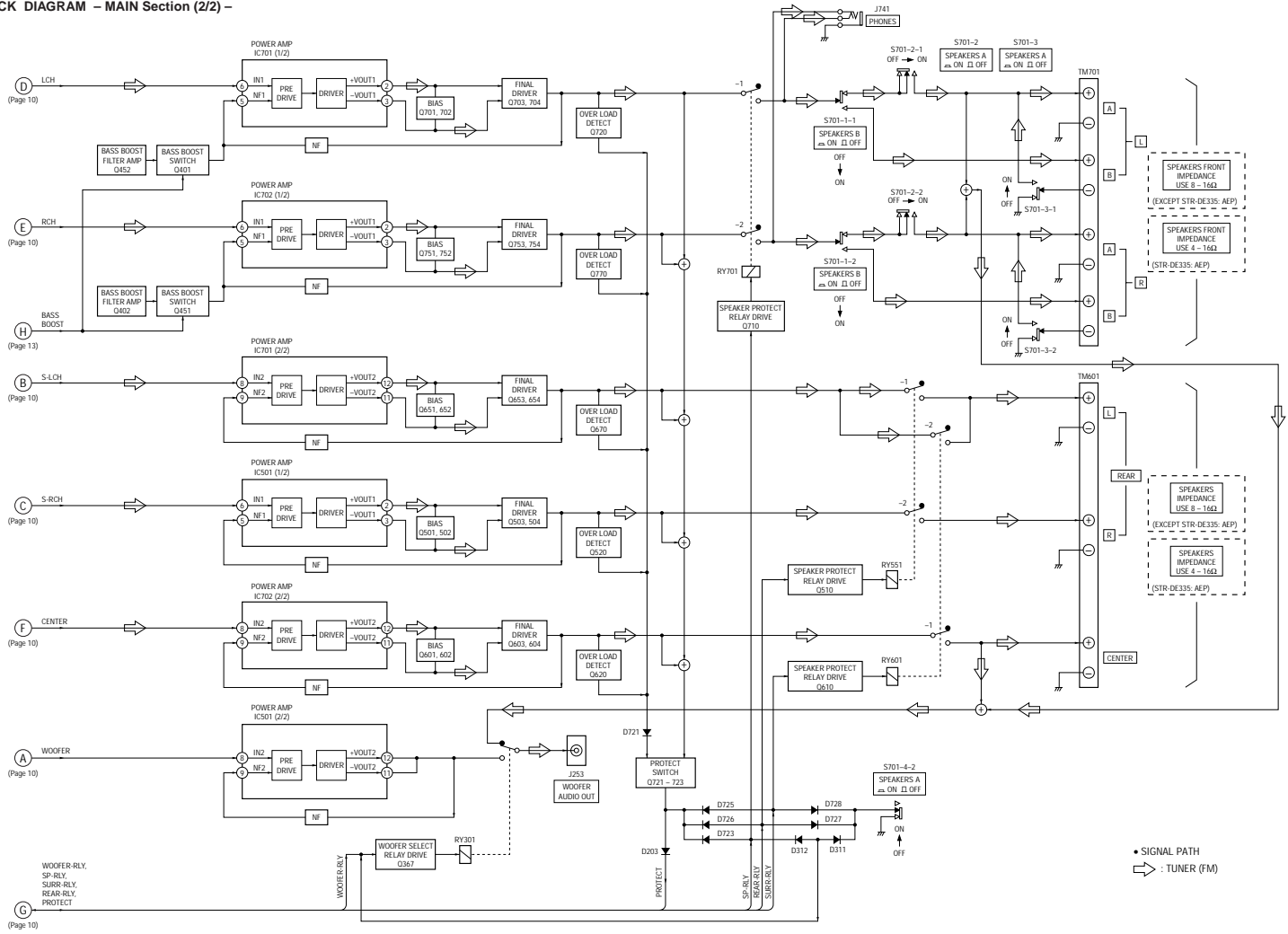
SECTION 5
DIAGRAMS

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

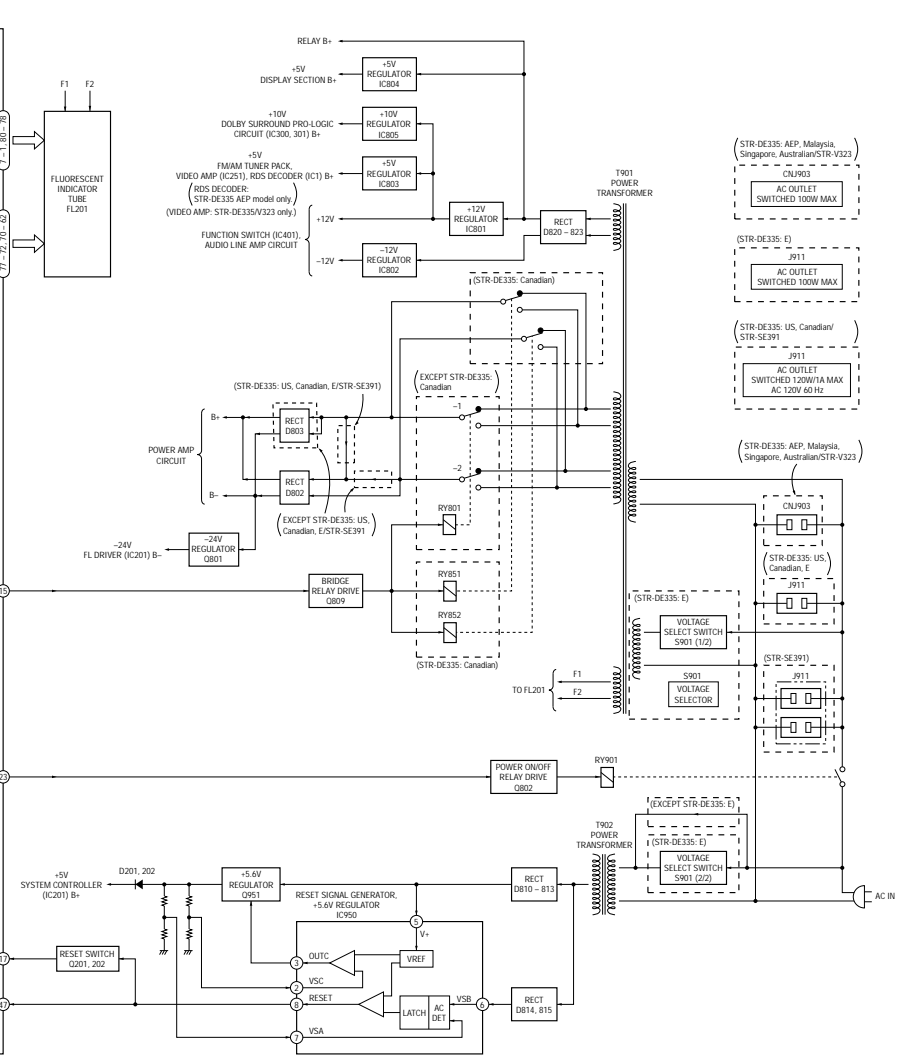
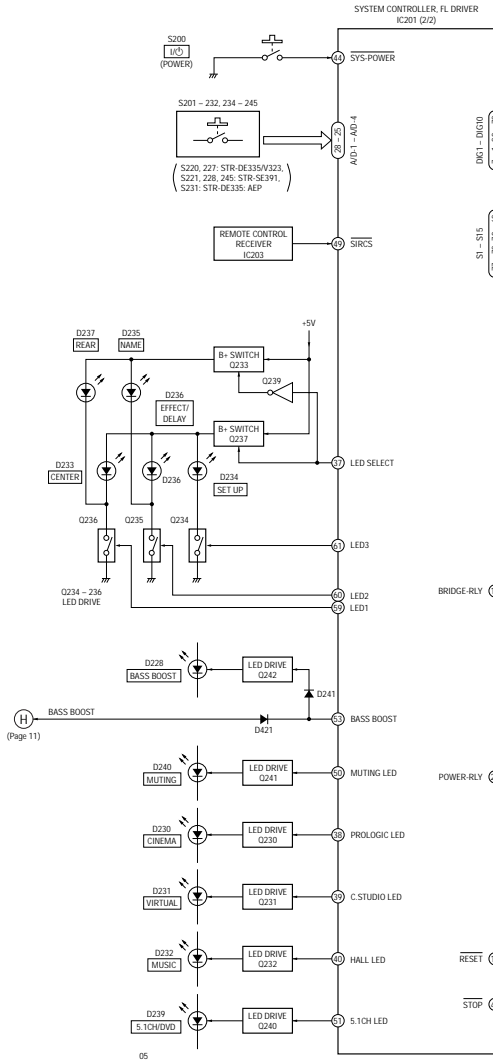


• SIGNAL PATH
 : TUNER (FM)
 : VIDEO

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

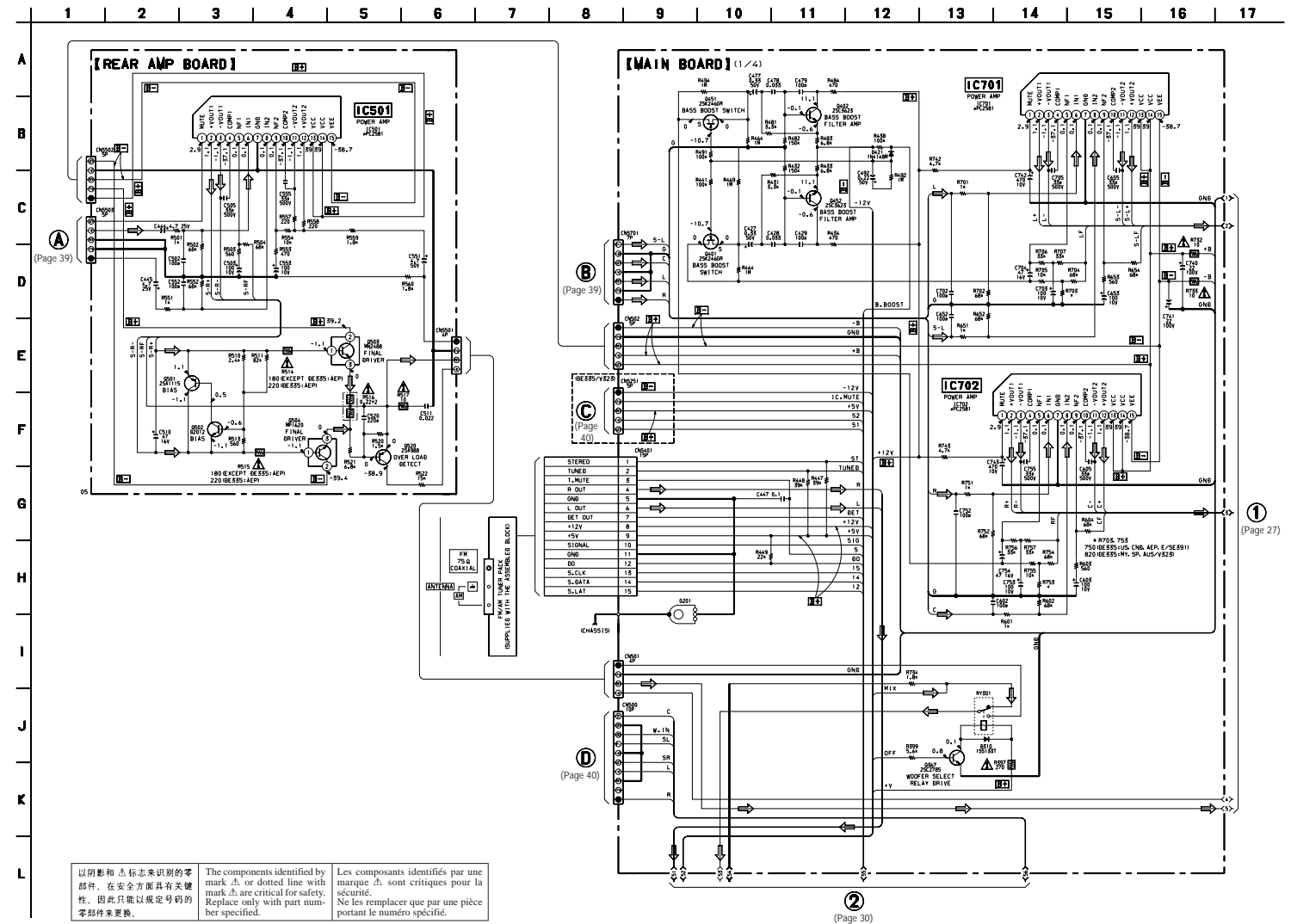


5-3. BLOCK DIAGRAM - DISPLAY/POWER SUPPLY Section -

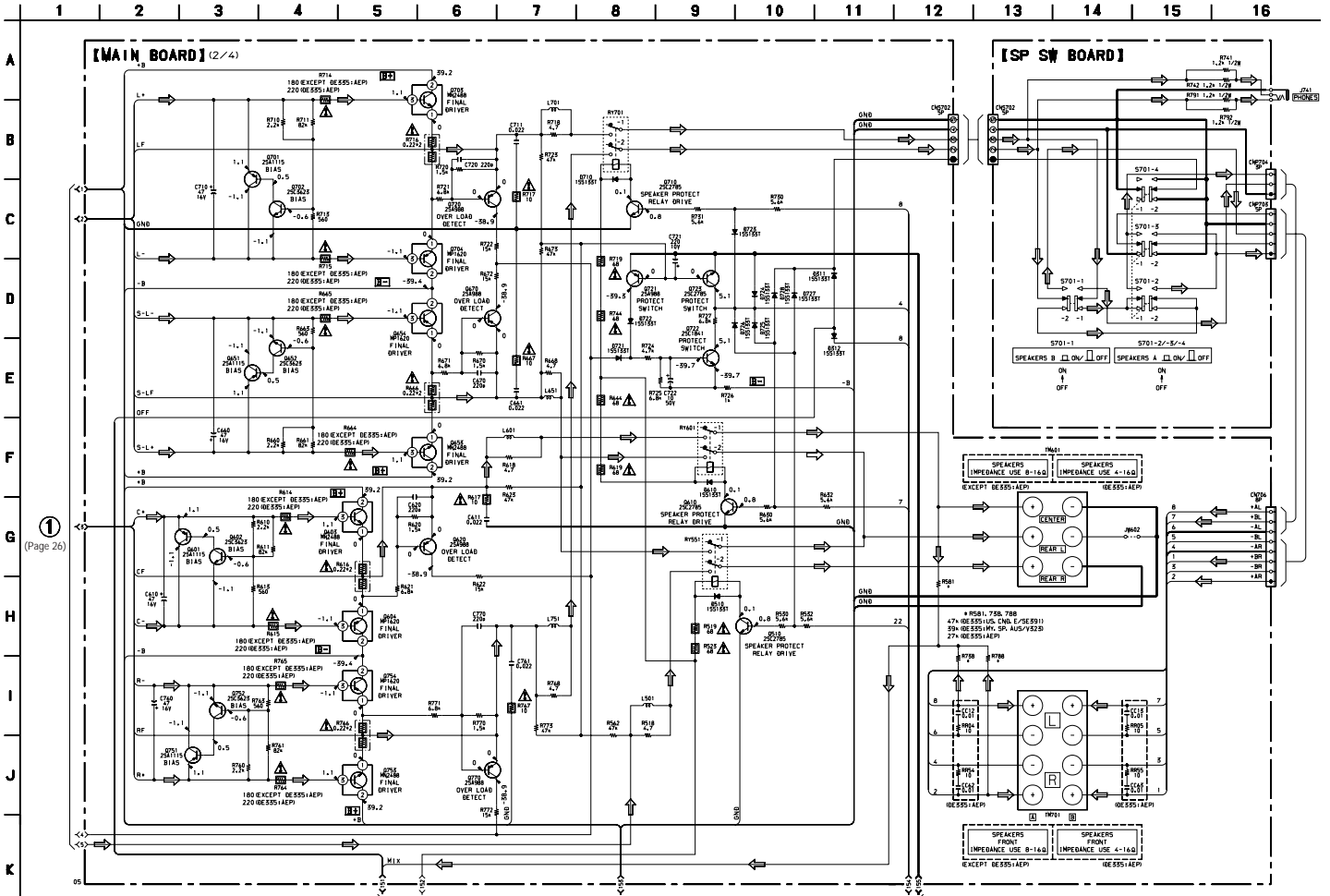


STR-DE335/SE391/V323

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 –

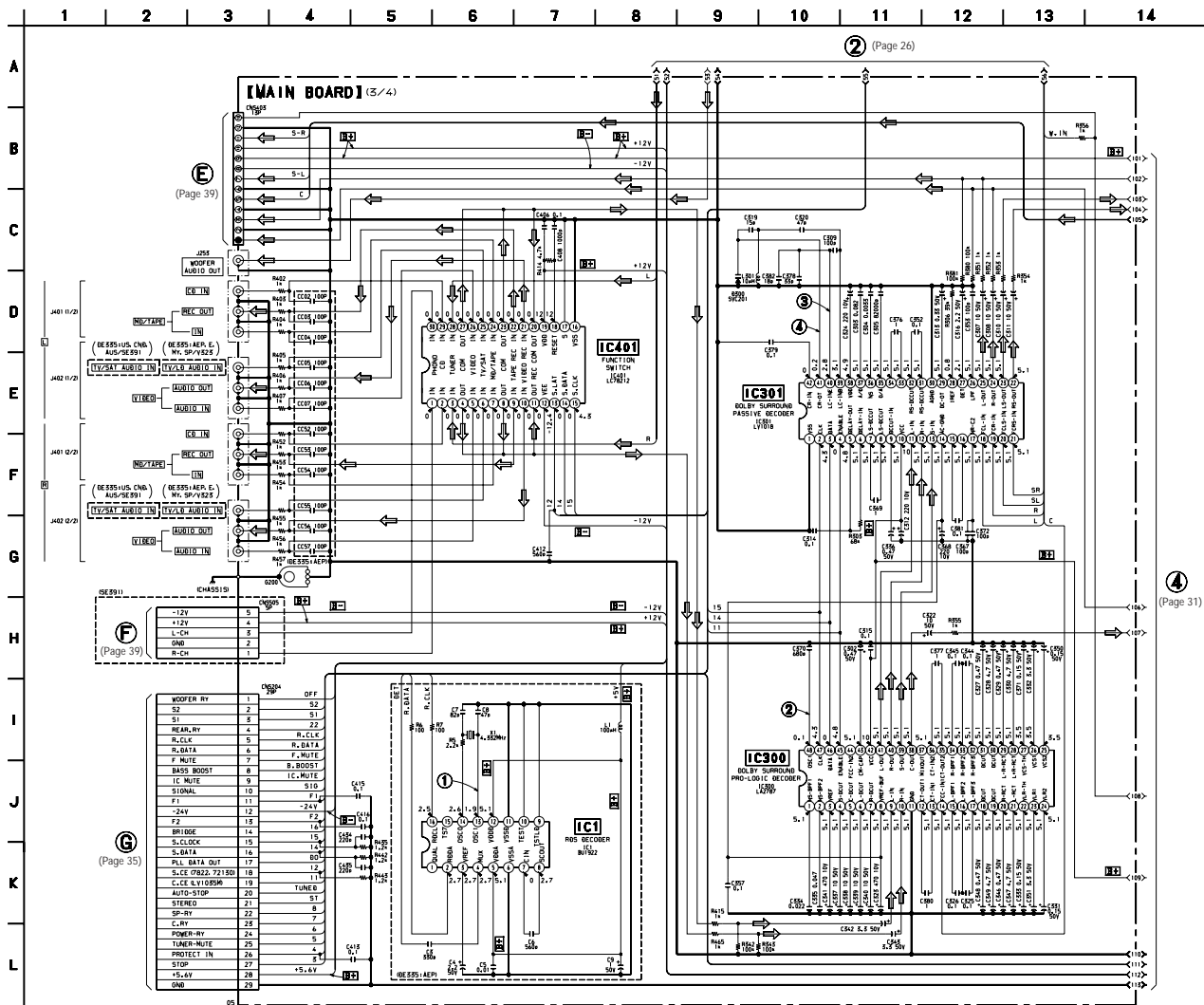


① (Page 26)

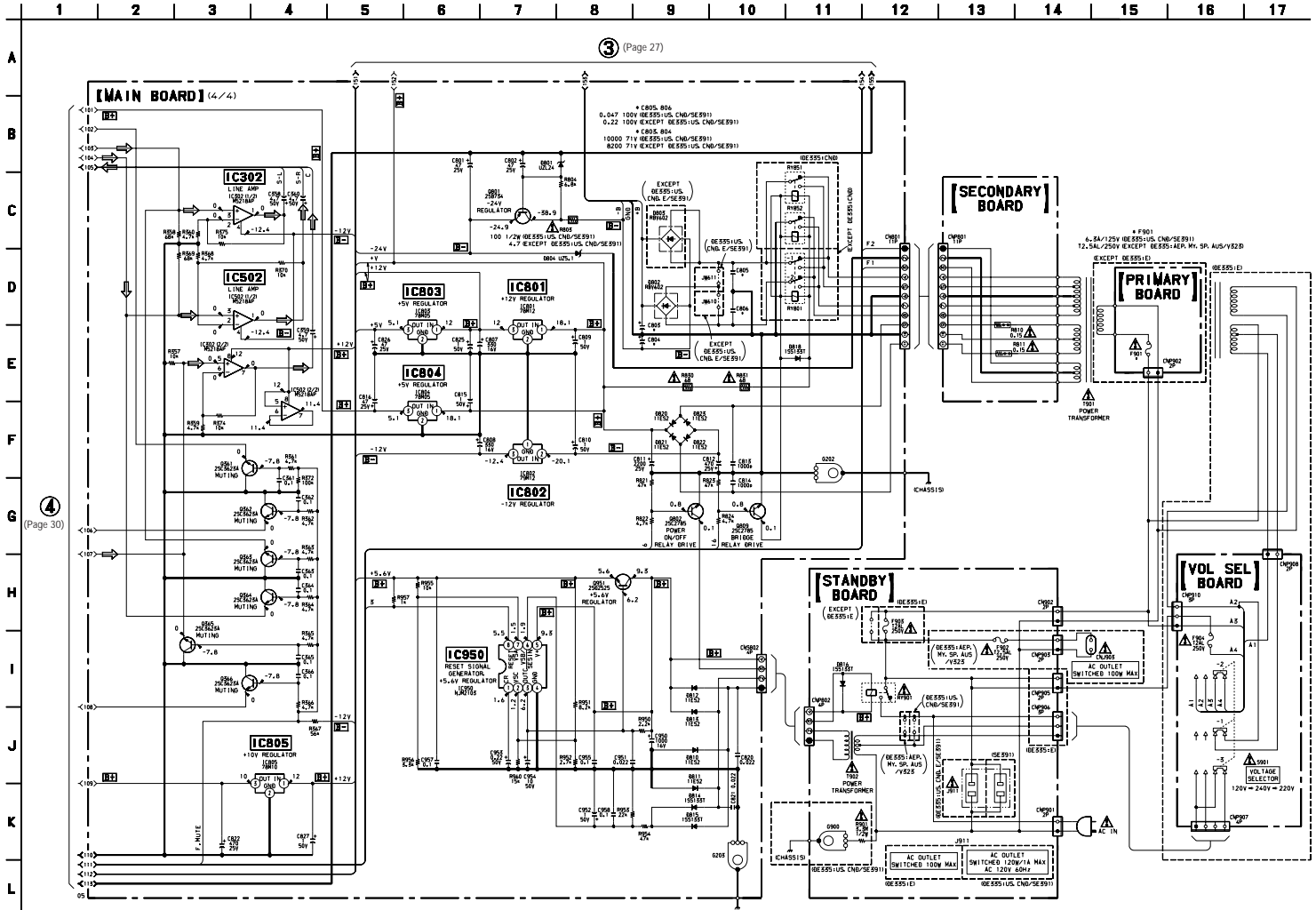
③ (Page 31)

<p>以阴影和点标志来识别的零件，在安全方面具有关键性。因此只能以规定号码的零件来更换。</p>	<p>The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque Δ 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.



(Page 30)

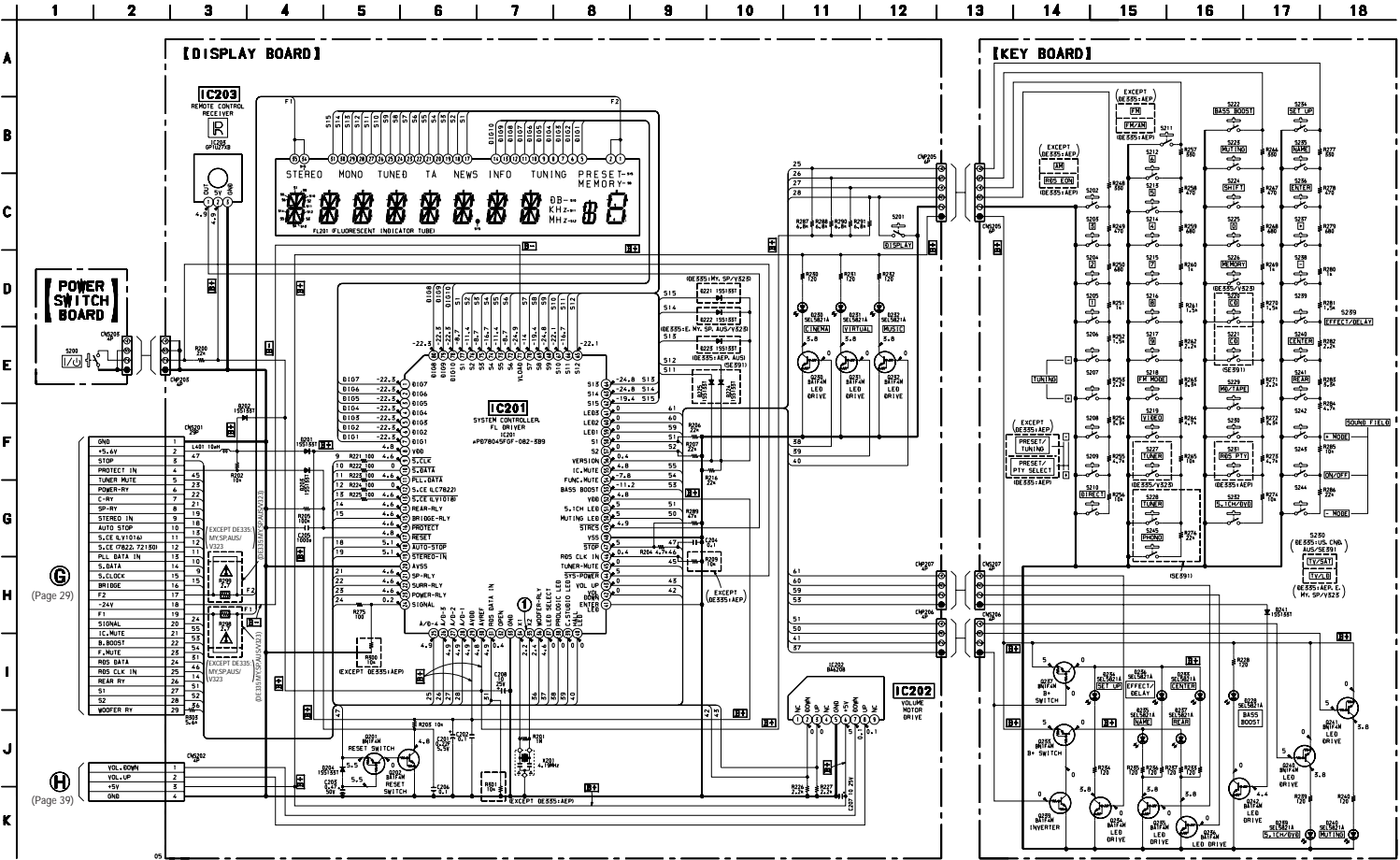
(Page 27)

以阴影和 Δ 标志识别的零件，在安全方面具有关键性，因此只能以规定号码的零件来更换。

The components identified by mark Δ, or dotted line with mark Δ, are critical for safety. Replace only with part number specified.

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

5-12. SCHEMATIC DIAGRAM – PANEL Section – • See page 18 for Waveform. • See page 43 for IC Block Diagram.

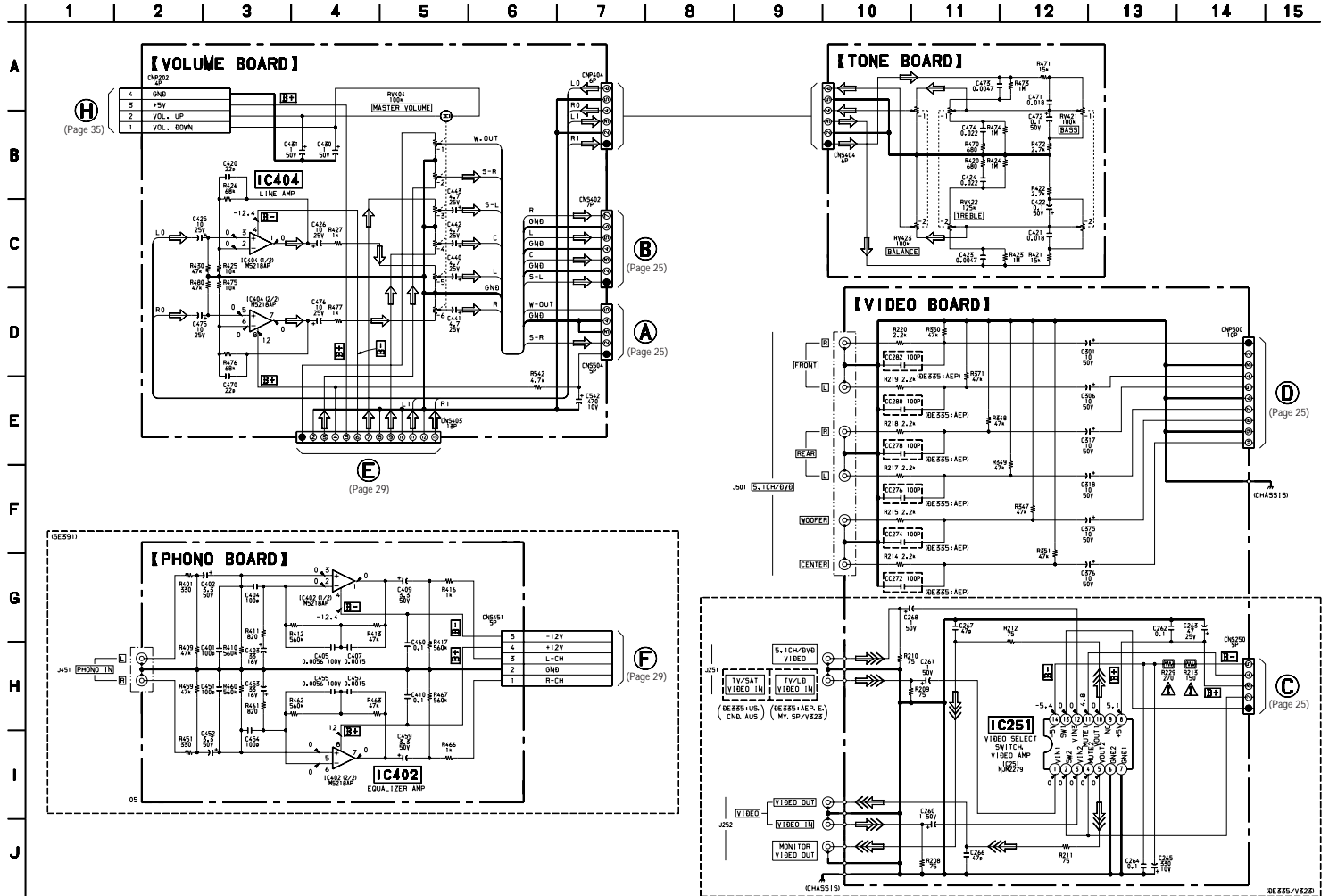


以阴影和 Δ 标志来识别的零件，在安全方面具有关键性。因此只能以规定号码的零件来更换。

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

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



<p>以阴影和 Δ 标志来识别的零件，在安全方面具有关键性。因此只能以规定号码的零件来更换。</p>	<p>The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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