

STR-DE485/DE485E



SERVICE MANUAL

Ver 1.0 2002. 02



Photo: STR-DE485

US Model
Canadian Model
E Model
Australian Model
Chinese Model
STR-DE485
AEP Model
UK Model
STR-DE485E

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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 40 – 20,000 Hz; rated 80 watts per channel minimum RMS power, with no more than 0.09 % total harmonic distortion from 250 milliwatts to rated output (STR-DE485 area code US only).

Amplifier section

POWER OUTPUT

Models of area code US, CND
Rated Power Output at Stereo Mode
(8 ohms 40 Hz – 20 kHz, THD 0.09 %)
STR-DE485: 80 W + 80 W

Reference Power Output
(8 ohms 1 kHz, THD 0.7 %)
STR-DE485: FRONT ¹⁾: 80 W/ch
CENTER ¹⁾: 80 W
SURR ¹⁾: 80 W/ch

Models of area code AEP, UK
Rated Power Output at Stereo Mode
(8 ohms 1 kHz, THD 0.7 %)
STR-DE485E 80 W + 80 W ²⁾

Reference Power Output
(8 ohms 1 kHz, THD 0.7 %)
STR-DE485E FRONT ¹⁾: 80 W/ch
CENTER ¹⁾: 80 W
SURR ¹⁾: 80 W/ch

Models of other area code
Rated Power Output at Stereo Mode
(8 ohms 1 kHz, THD 0.7 %)
80 W + 80 W ²⁾

Reference Power Output ²⁾
(8 ohms 1 kHz, THD 10 %)
FRONT ¹⁾: 100 W/ch
CENTER ¹⁾: 100 W
SURR ¹⁾: 100 W/ch

1) Depending on the sound field settings and the source, there may be no sound output.

2) Measured under the following conditions:

Area code	Power requirements
E, AUS	240 V AC, 50 Hz
SP, AEP, UK	230 V AC, 50 Hz
TW	110 V AC, 60 Hz
MX	120 V AC, 60 Hz

Frequency response

MULTI CH IN (STR-DE485 only), CD, MD/TAPE, DVD/LD, VIDEO 1, 2	10 Hz – 50 kHz +0.5/-2 dB (with sound field, and tone bypassed)
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Inputs (Analog)

MULTI CH IN (STR-DE485 only), CD, MD/TAPE, DVD/LD, VIDEO 1, 2	Sensitivity: 250 mV Impedance: 50 kilohms S/N ³⁾ : 96 dB (A, 250 mV ⁴⁾)
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3) INPUT SHORT (with sound field and tone bypassed).

4) Weighted network, input level.

– Continued on next page –

FM STEREO/FM-AM RECEIVER

9-873-587-01
2002B0400-1
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Home Audio Company
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SECTION 3 TEST MODE

SOFTWARE VERSION DISPLAY MODE

* The software version is displayed.

* Procedure:

While depressing the **[ENTER]** and the SOUND FIELD **[A.F.D.]** buttons simultaneously, press the power **[I/⏻]** button to turn on the main power. The model name, destination and the software version are displayed.

FLUORESCENT INDICATOR TUBE TEST MODE

* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

* Procedure:

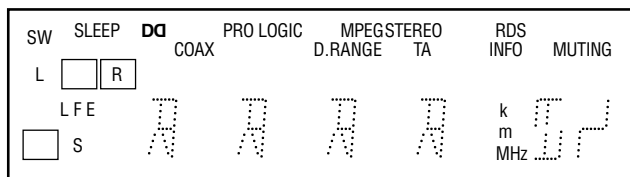
While depressing the **[MD/TAPE]** and the **[SHIFT]** buttons simultaneously, press the power **[I/⏻]** button to turn on the main power.

1. All segments turn on.



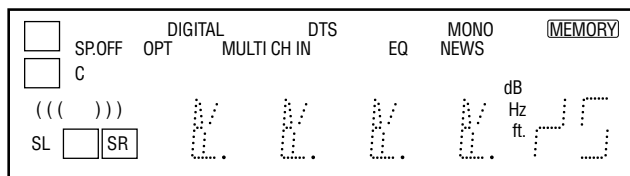
[MULTI CHANNEL DECODING], **[Digital Cinema Sound]**, SOUND FIELD **[A.F.D.]**, **[MODE]**, **[2CH]** and **[SET UP]** LED turn on.

2. Press the **[VIDEO 1]** button, confirm display



SOUND FIELD **[A.F.D.]**, **[MODE]**, SOUND CONTROL **[LEVEL]**, **[SET UP]** and **[Digital Cinema Sound]** LED turn on.

3. Press the **[VIDEO 1]** button, confirm display



[MULTI CHANNEL DECODING], SOUND FIELD **[2CH]**, SOUND CONTROL **[SURR]** and **[NAME]** LED turn on.

4. Press the **[VIDEO 1]** button, All segments turn off.

5. Every pressing of the **[VIDEO 1]** button turns on each segment and LED one after another in the same order.

(Not only the **[VIDEO 1]** button, but also the other buttons such as **[VIDEO 2]**, **[DVD/LD]**, **[MD/TAPE]**, **[CD]**, **[TUNER]** can be used.)

FACTORY PRESET MODE

* All preset contents are reset to the default setting.

* Procedure:

While depressing the **[VIDEO 1]** and the SOUND FIELD **[2CH]** buttons simultaneously, press the power **[I/⏻]** button to turn on the main power. The message FACTORY appears and switch off the set.

While depressing the **[VIDEO 1]** and the SOUND FIELD **[2CH]** buttons simultaneously, press the power **[I/⏻]** button again. The message FACTORY appears and the preset contents are reset to the default values.

SOUND FIELD CLEAR MODE

* The preset sound field is cleared when this mode is activated.

Use this mode before returning the product to clients upon completion of repair.

* Procedure:

While depressing the SOUND FIELD **[MODE]** button, press the power **[I/⏻]** button to turn on the main power. The message S. F. CLR appears and initialization is performed.

AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE

* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.

* Procedure:

Set the **[TUNER]** to **[AM]**. Turn off the main power.

While depressing the **[TUNING+]** button or the **[PRESET TUNING-]** button, press the power **[I/⏻]** button to turn on the main power. Either the message 9 k STEP or 10 k STEP appears. Select the desired step.

* For US/E model only

KEY CHECK MODE

* Button check

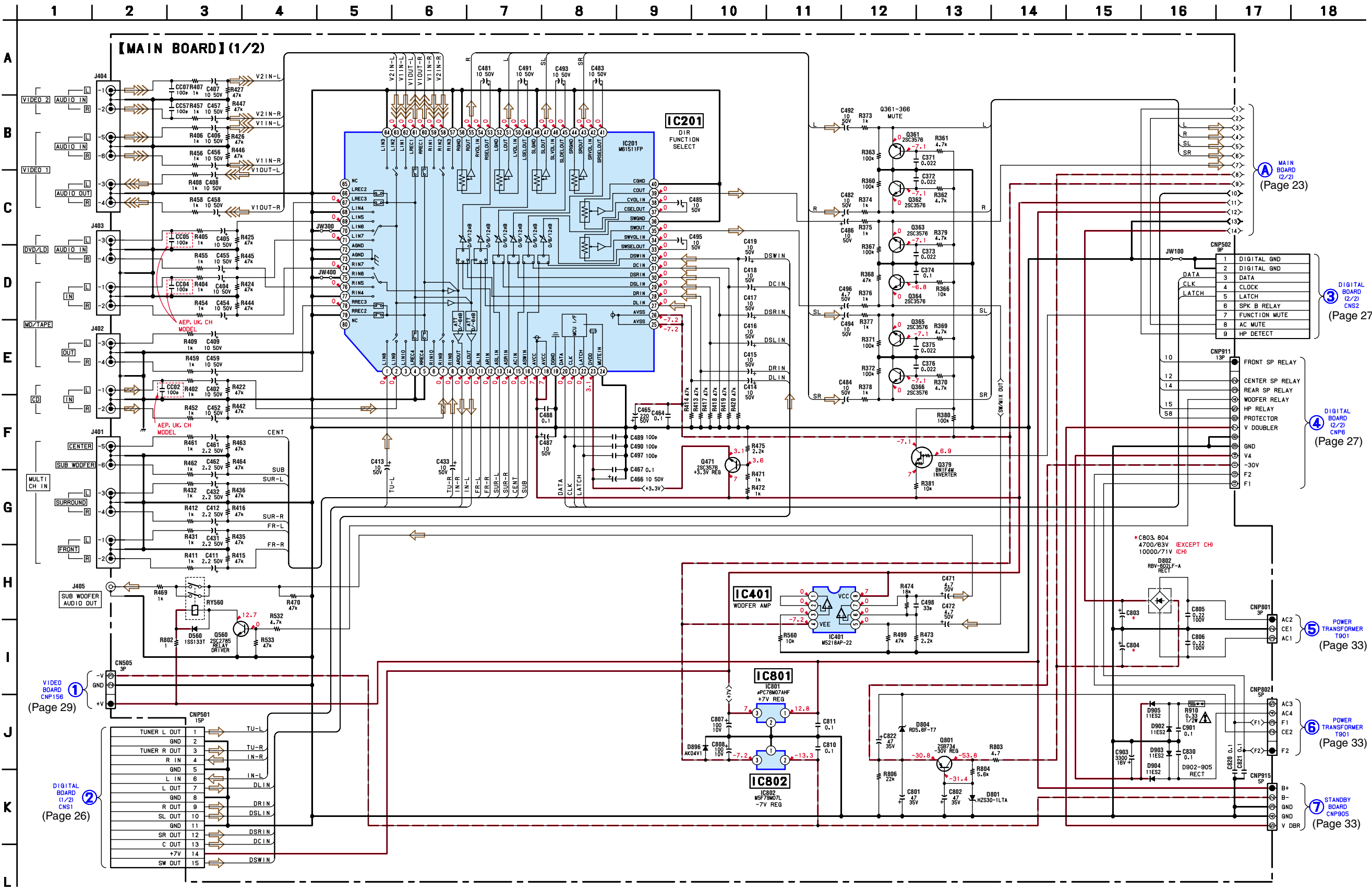
* Procedure:

While depressing the **[VIDEO 1]** and the **[SHIFT]** buttons simultaneously, press the power **[I/⏻]** button to turn on the main power. "REST 39" appears.

Every pressing of any button other than the **[I/⏻]**, **[TREBLE+, -]** and the **[BASS+, -]** counts down the buttons. The buttons which are already counted once are not counted again. When all buttons are pressed "REST 04" appears.

When **[MASTER VOLUME]** is rotated in clockwise direction, "VOL MIN", "VOL 1" to "VOL 73", "VOL MAX" appear.

4-8. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 20 for Common Note on Schematic Diagram.

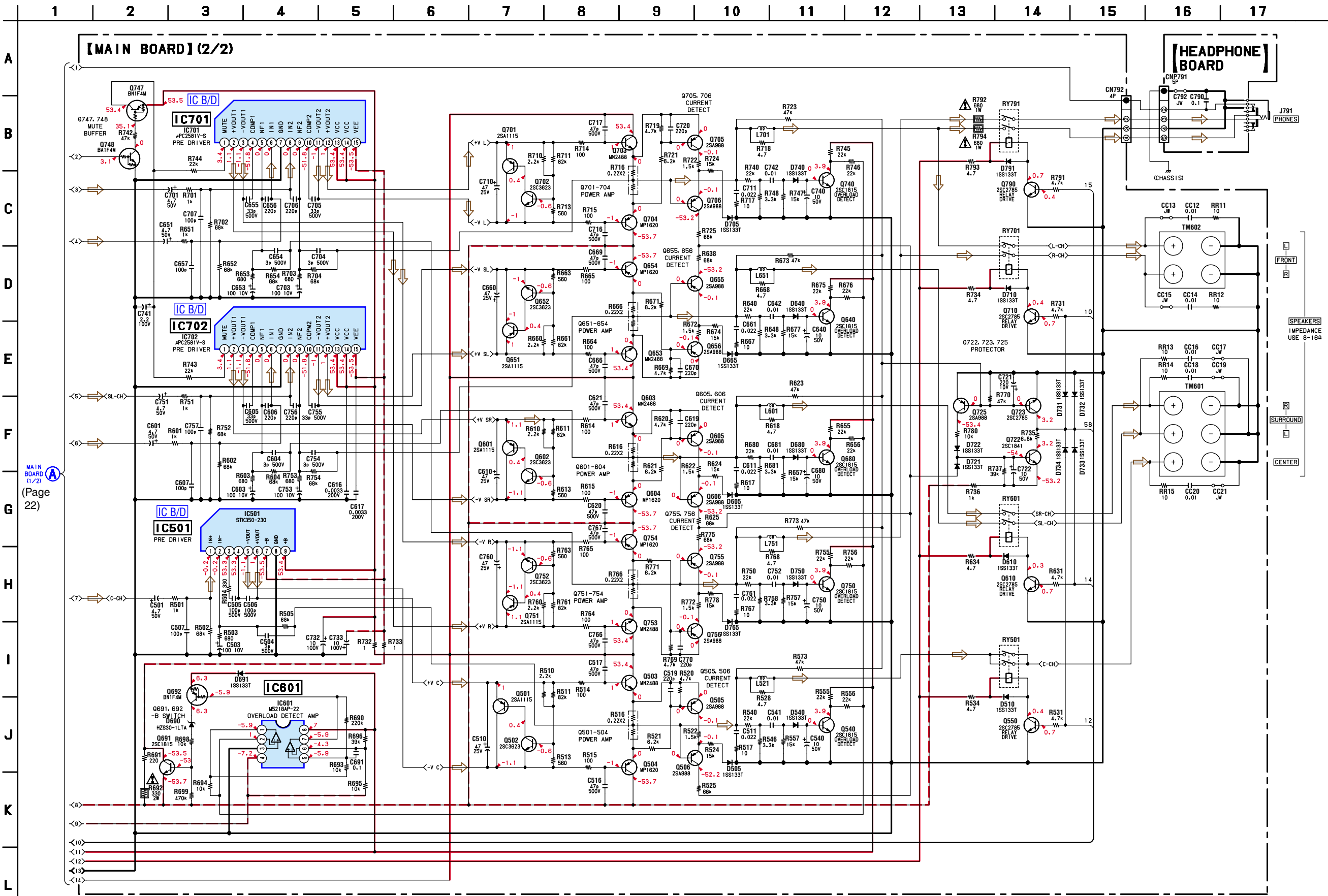


The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

以阴影和 Δ 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。

4-9. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 20 for Common Note on Schematic Diagram and page 34 for IC Block Diagrams.



MAIN BOARD (1/2)
(Page 22)

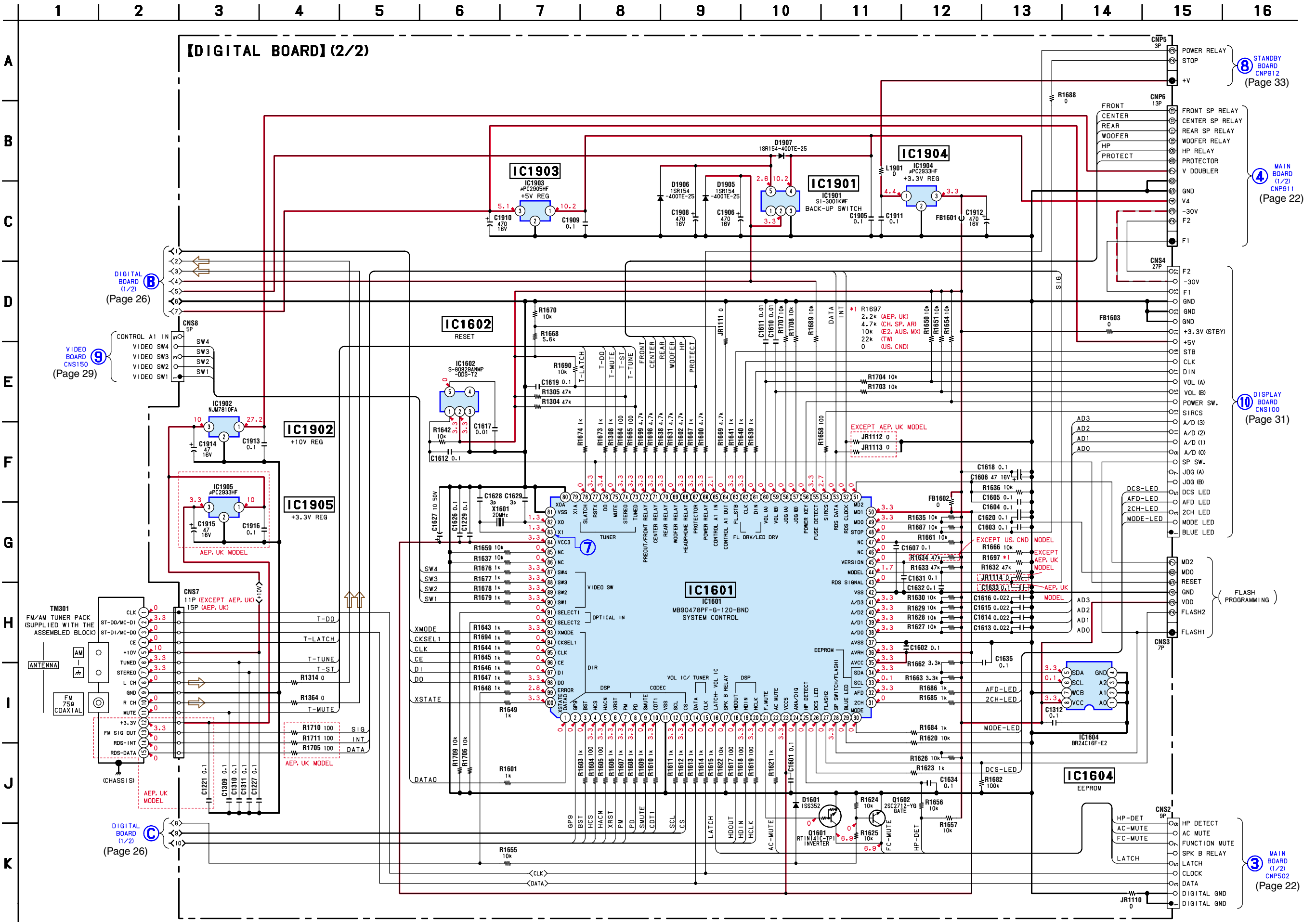
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

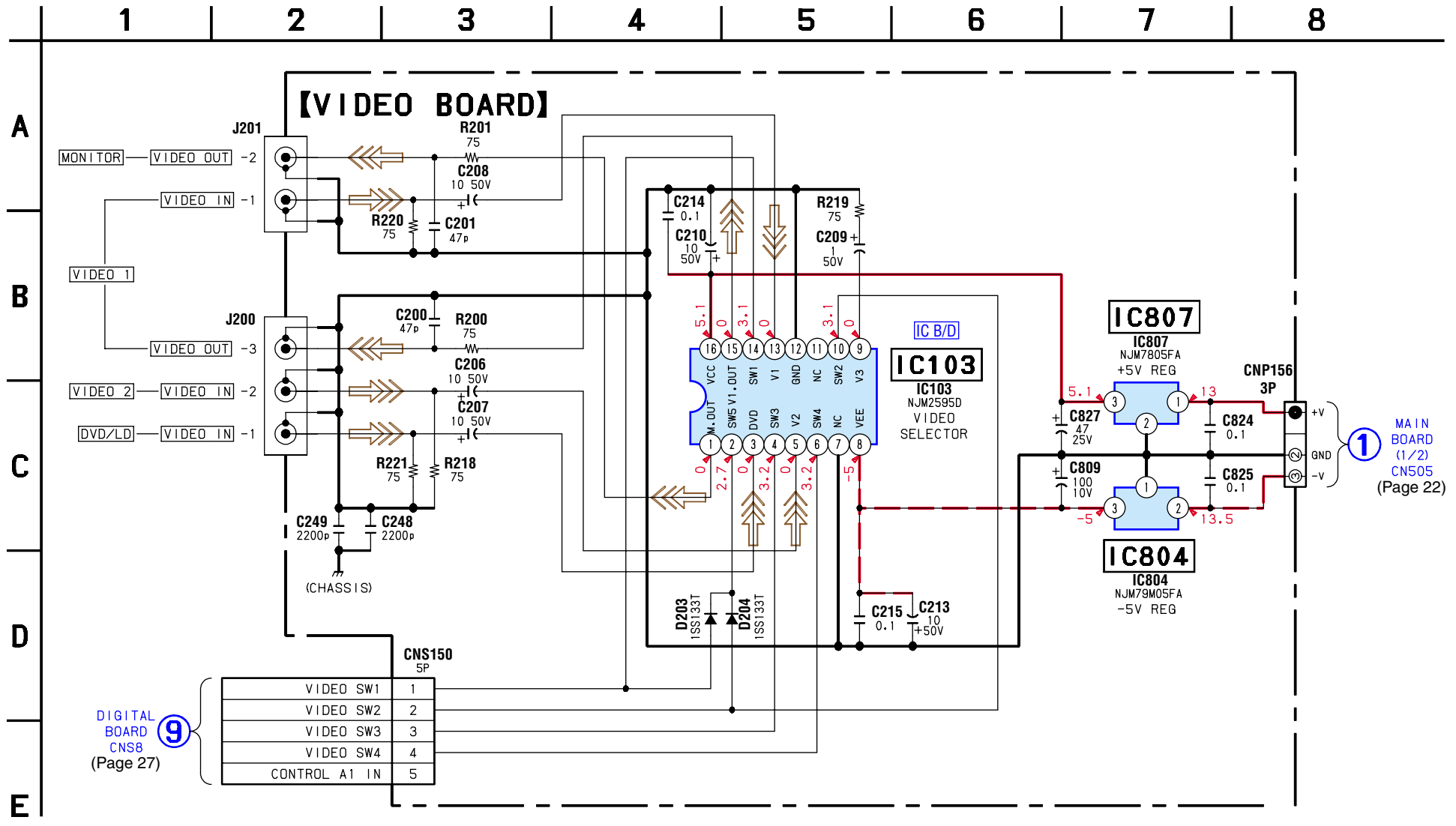
以阴影和 \triangle 标志来识别的零部件，在安全方面具有关键性。因此只能以规定号码的零部件来更换。



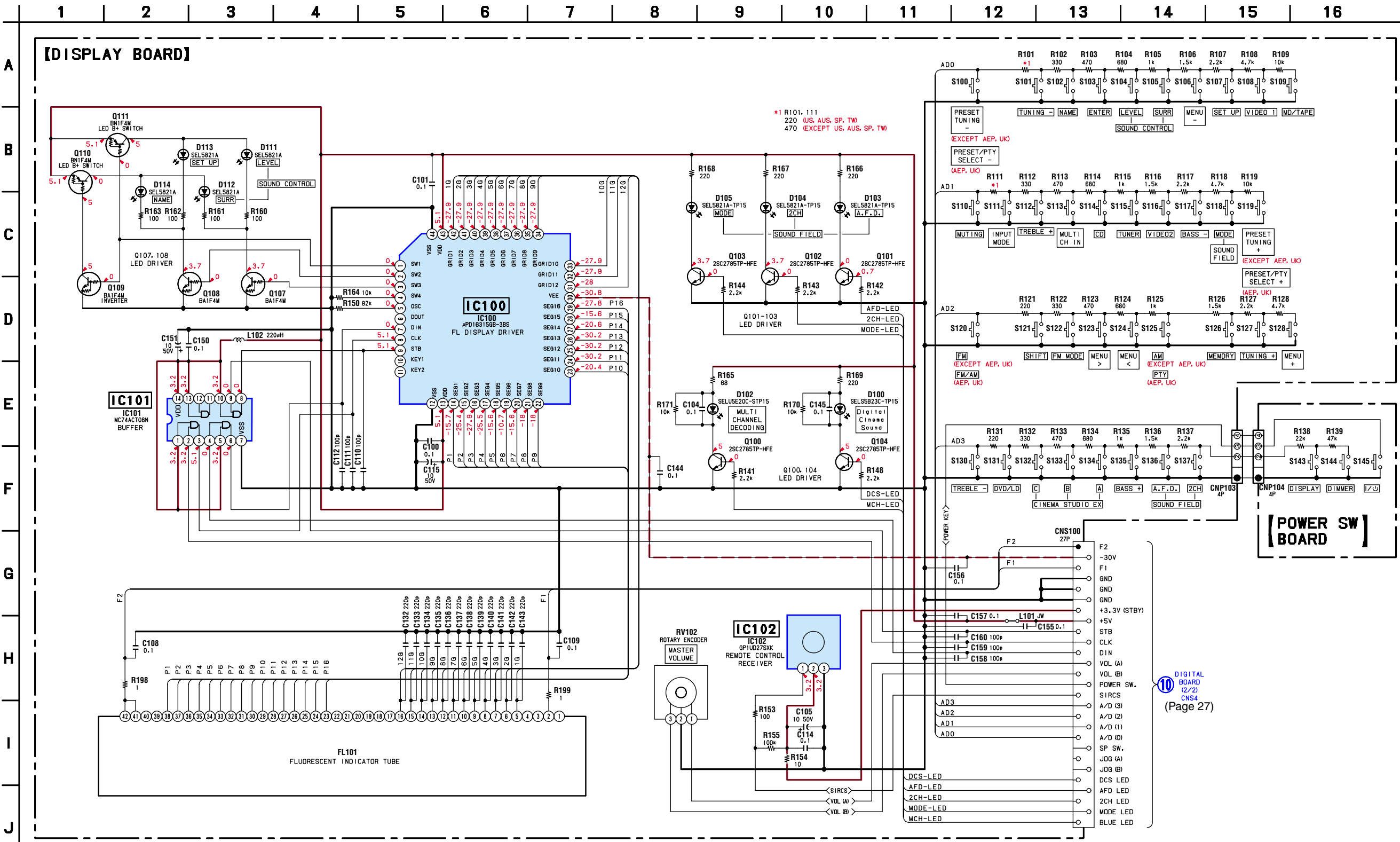
4-13. SCHEMATIC DIAGRAM — DIGITAL SECTION (2/2) — • Refer to page 20 for Common Note on Schematic Diagram and Waveform.



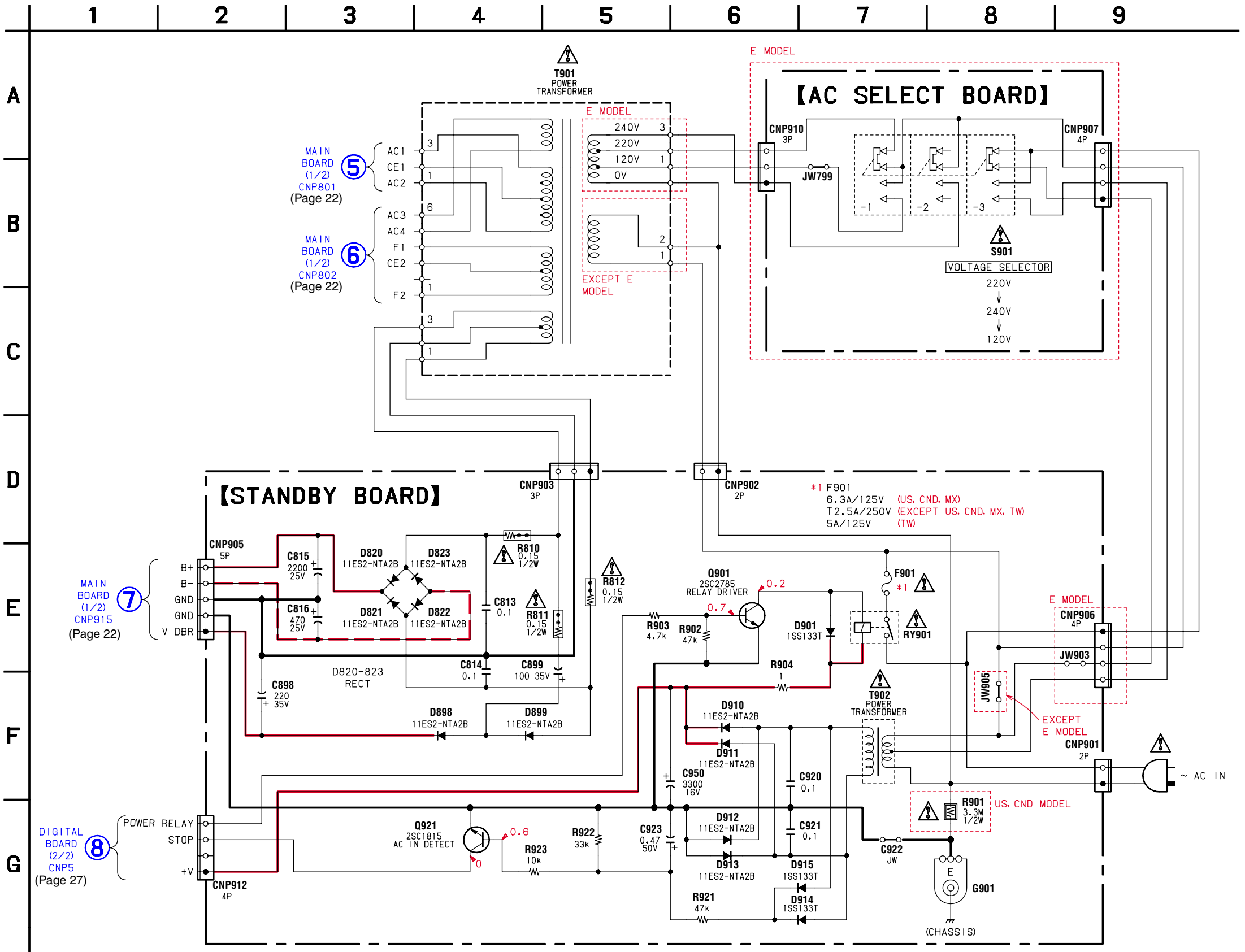
4-15. SCHEMATIC DIAGRAM — VIDEO SECTION — • Refer to page 20 for Common Note on Schematic Diagram and page 34 for IC Block Diagrams.



4-17. SCHEMATIC DIAGRAM — DISPLAY SECTION — • Refer to page 20 for Common Note on Schematic Diagram.



4-19. SCHEMATIC DIAGRAM — POWER SECTION — • Refer to page 20 for Common Note on Schematic Diagram.



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

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

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。