

STR-DE445/DE545/SE501

SERVICE MANUAL



Photo: STR-DE445

US Model
STR-DE445/DE545/SE501
Canadian Model
AEP Model
UK Model
STR-DE445/DE545
E Model
Australian Model
Chinese Model
PX Model
STR-DE545

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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8 Ω loads, both channels driven, from
20 – 20,000 Hz; rated 100^W per channel
minimum RMS power, with no more than
0.09% total harmonic distortion from 250
mW to rated output (US model only).

STR-DE445:
a) 80 W

Amplifier section

Rated Power Output at Stereo mode

US model:
(8 Ω 20 Hz – 20 kHz, THD
0.09 %)

EXCEPT US:
(8 Ω 1 kHz, THD 0.7 %)

STR-DE545/SE501:
100 W + 100 W

STR-DE445:
80 W + 80 W

Reference Power Output

(8 Ω at 1 kHz, THD 0.7 %)

STR-DE545/SE501:
Front: 100 W + 100 W
Center: 100 W
Rear: 100 W + 100 W

STR-DE445:
Front: 80 W + 80 W
Center: 80 W
Rear: 80 W + 80 W

Frequency response

CD, MD/TAPE, DVD/LD, TV/
SAT, VIDEO, AUX:
10 Hz – 50 kHz +0.5/–2 dB
(with sound field, tone, and
bass boost bypassed)

Inputs (Analog) 5.1 CH INPUT, CD, DVD/LD,
MD/TAPE, TV/SAT, VIDEO,
AUX:
Sensitivity: 250 mV
Impedance: 50 k Ω
S/N^{b)}: 96 dB (A, 250 mV^{c)})

b) Input short.

c) Weighted network, input level.

Inputs (Digital) DVD/LD (coaxial):
Sensitivity: —
Impedance: 75 Ω
S/N: 100 dB (A, 20 kHz LPF)
DVD/LD, TV/SAT* (Optical):
Sensitivity: —
Impedance: —
S/N: 100 dB (A, 20 kHz LPF)

*) STR-DE545 and STR-SE501 only.

Outputs MD/TAPE, (REC OUT); VIDEO
(AUDIO OUT):
Voltage: 250 mV,
Impedance: 10 k Ω
SUB WOOFER:
Voltage: 2 V
Impedance: 1 k Ω
PHONES:
Accepts low- and high-
impedance headphones

BASS BOOST +6 dB at 70 Hz

TONE ± 6 dB at 100 Hz and 10 kHz

Sampling Frequency
48 kHz

FM tuner section

Tuning range 87.5 – 108.0 MHz

Antenna terminals 75 Ω , unbalanced

Sensitivity Mono: 18.3 dBf, 2.2 μ V/75 Ω
Stereo: 38.3 dBf, 22.5 μ V/75 Ω

Usable sensitivity 11.2 dBf, 1 μ V/75 Ω

S/N Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz
Mono: 0.3 %
Stereo: 0.5 %

Separation 45 dB at 1 kHz

Frequency response
30 Hz – 15 kHz
+0.5/–2 dB

Selectivity 60 dB at 400 kHz

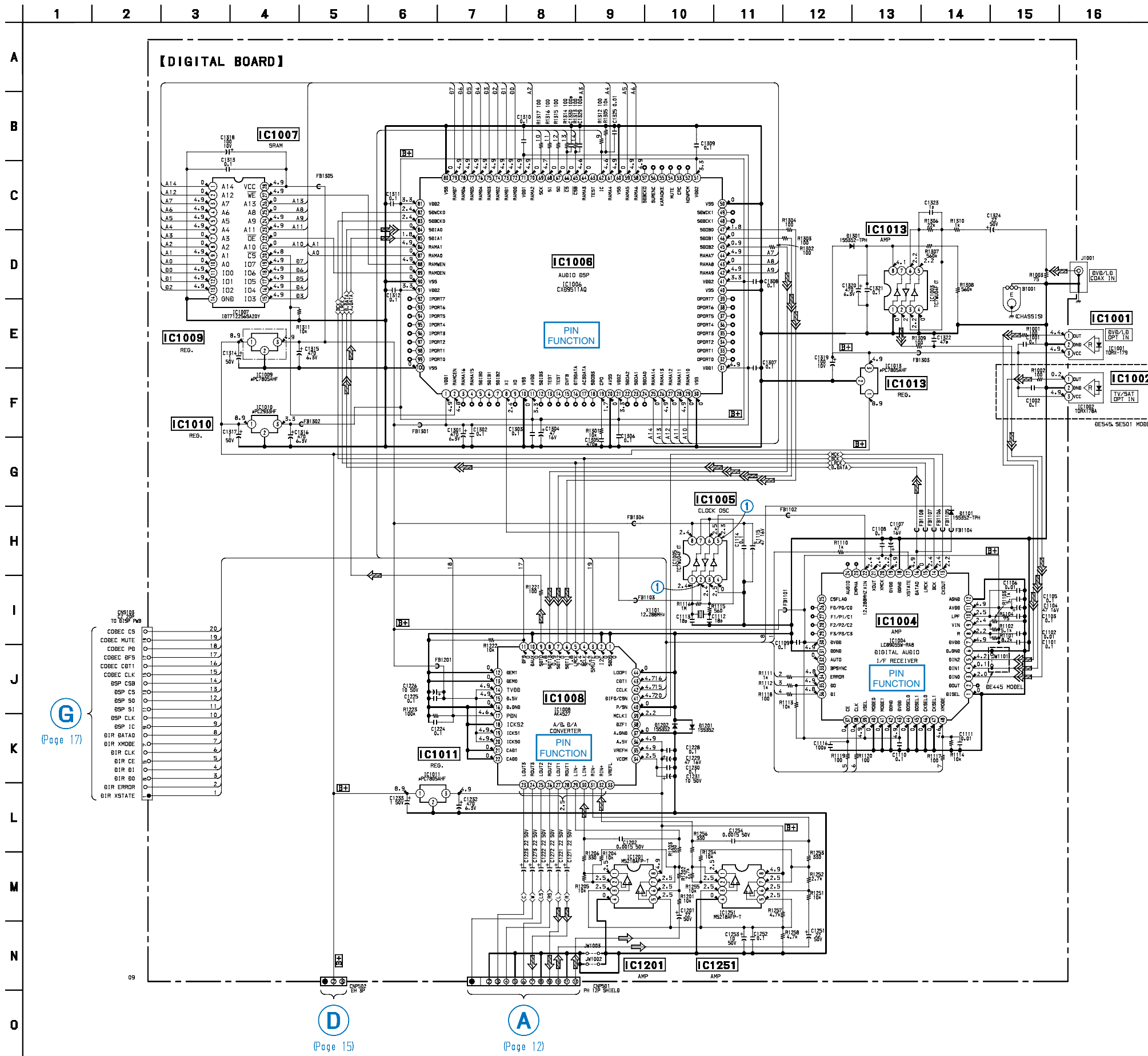
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FM STEREO FM-AM RECEIVER

SONY®

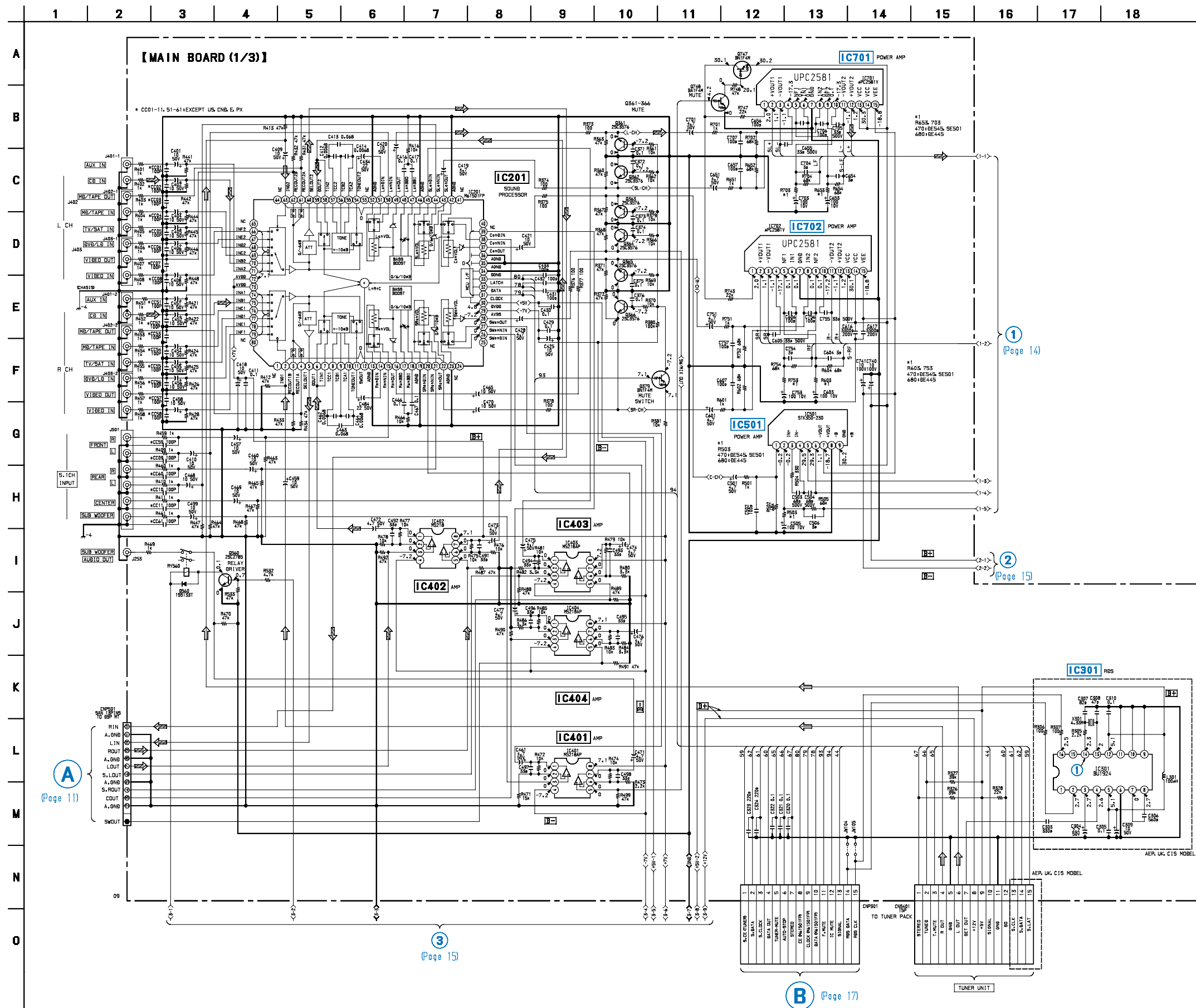
3-4. SCHEMATIC DIAGRAM — DIGITAL SECTION —

- See page 7 for Waveforms.
- See page 21 for IC Pin Functions.

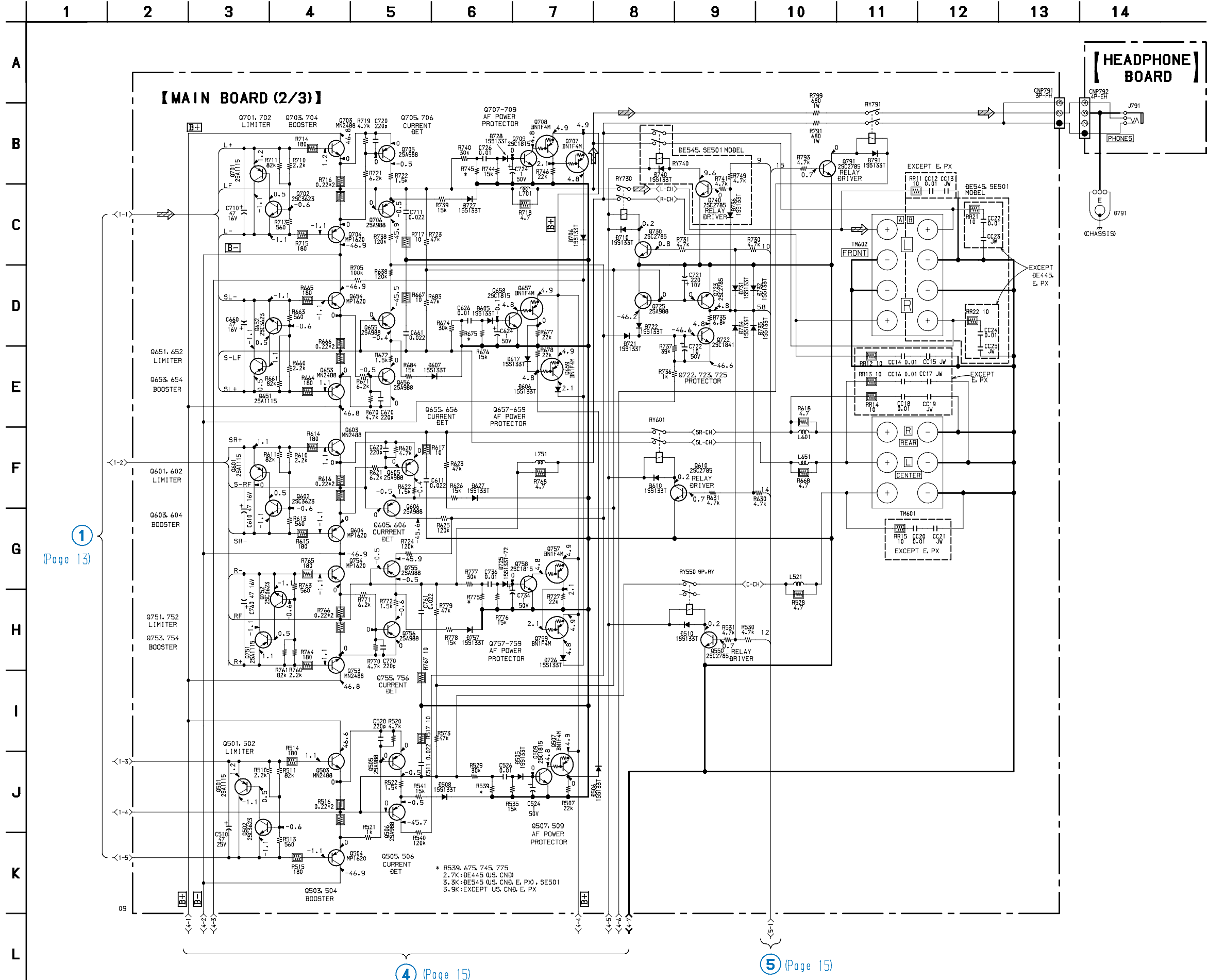


3-6. SCHEMATIC DIAGRAM — MAIN (1/3) SECTION —

- See page 7 for Waveforms.
- See page 28 for IC Block Diagrams.



3-7. SCHEMATIC DIAGRAM — MAIN (2/3) SECTION —

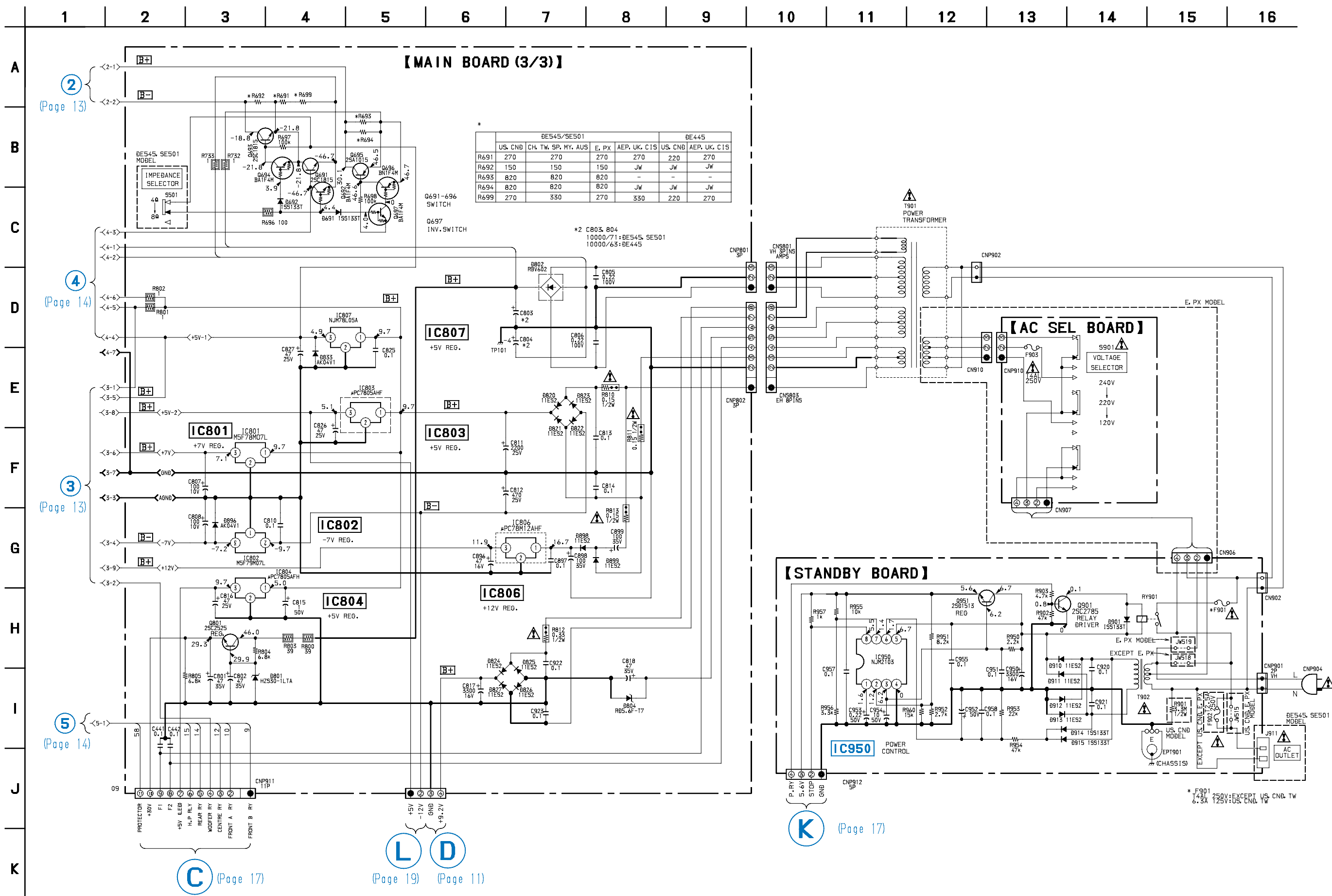


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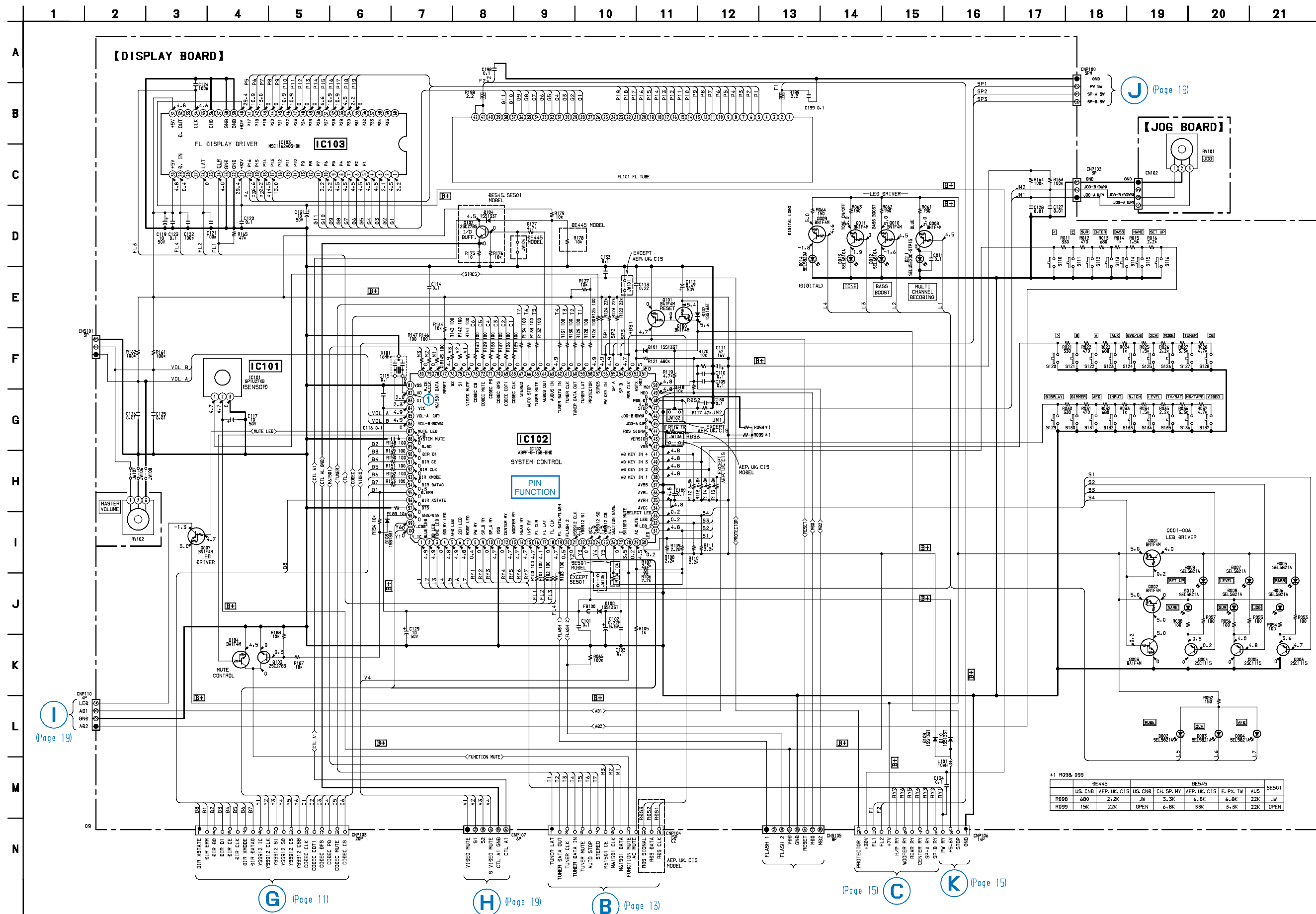
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3-8. SCHEMATIC DIAGRAM — MAIN (3/3) SECTION —

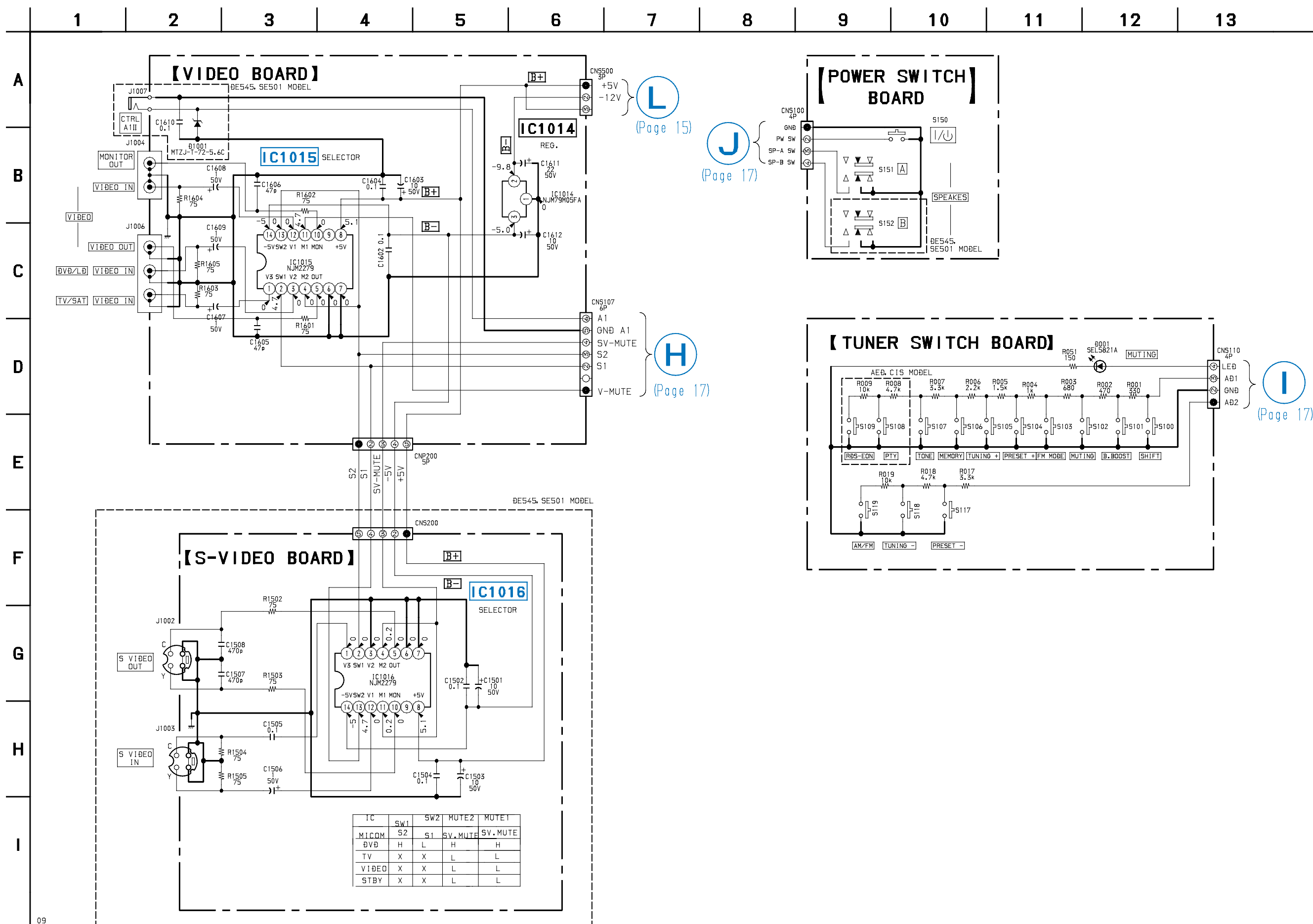


3-10. SCHEMATIC DIAGRAM — DISPLAY SECTION —

- See page 7 for Waveforms.
- See page 26 for IC Pin Functions.



3-12. SCHEMATIC DIAGRAM — VIDEO/KEY SECTION —
 • See page 29 for IC Block Diagrams.



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