

STR-SE381

SERVICE MANUAL

US Model



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SPECIFICATIONS

Audio power specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 40 - 20,000 Hz, rated 60 watts per channel minimum RMS power, with no more than 0.5% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Stereo mode

(8 ohms at 40 Hz - 20 kHz less than 0.5% total harmonic distortion)
60 W + 60 W

Surround mode

(8 ohms at 1 kHz, THD 0.5%)
Front: 60 W/ch
Center: (Pro Logic Mode)
60 W

Frequency response

Rear: 60 W/ch
PHONO: RIAA equalization curve ± 0.5 dB
TV/DBS, CD, TAPE/MD, VIDEO INPUT
10 Hz - 50 kHz ± 1 dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO (MM)	2.5 mV	50 Kilohms	72 dB* (A, 2.5 mV)
CD	400 mV		
TAPE/MD,	250 mV		
TV/DBS,		50 Kilohms	82 dB* (A, 150 mV)
VIDEO			

*78 IHF

Outputs

TAPE/MD REC OUT:

Voltage: 150 mV,
Impedance: 10 kilohms

VIDEO AUDIO OUT:

Voltage: 150 mV,
Impedance: 10 kilohms

PHONES:

Accepts low and high impedance headphones
Full mute
+10 dB at 70 Hz
 ± 8 dB at 100 Hz and 10 kHz

Muting

BASS BOOST TONE

FM tuner section

Tuning range

87.5 - 108.0 MHz

Antenna terminals

75 ohms, unbalanced
300 ohms, balanced

Sensitivity

Mono: 18.3 dBf, 4.5 μ V
Stereo: 38.3 dBf, 45 μ V

Usable sensitivity

11.2 dBf, 2 μ V (IHF)

S/N

Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz

Mono: 0.3%
Stereo: 0.59%
45 dB at 1 kHz
30 Hz - 15 kHz $^{+0.5}_{-2}$ dB
60 dB at 400 kHz

Separation

Frequency response Selectivity

AM tuner section

Tuning range

531 - 1710 kHz

Antenna

Loop antenna

Usable sensitivity

50 dB/m (at 1,000 kHz)

S/N

54 dB (at 50 mV/m)

Harmonic distortion

0.5% (50 mV/m, 400 kHz)

Selectivity

At 10 kHz: 40 dB

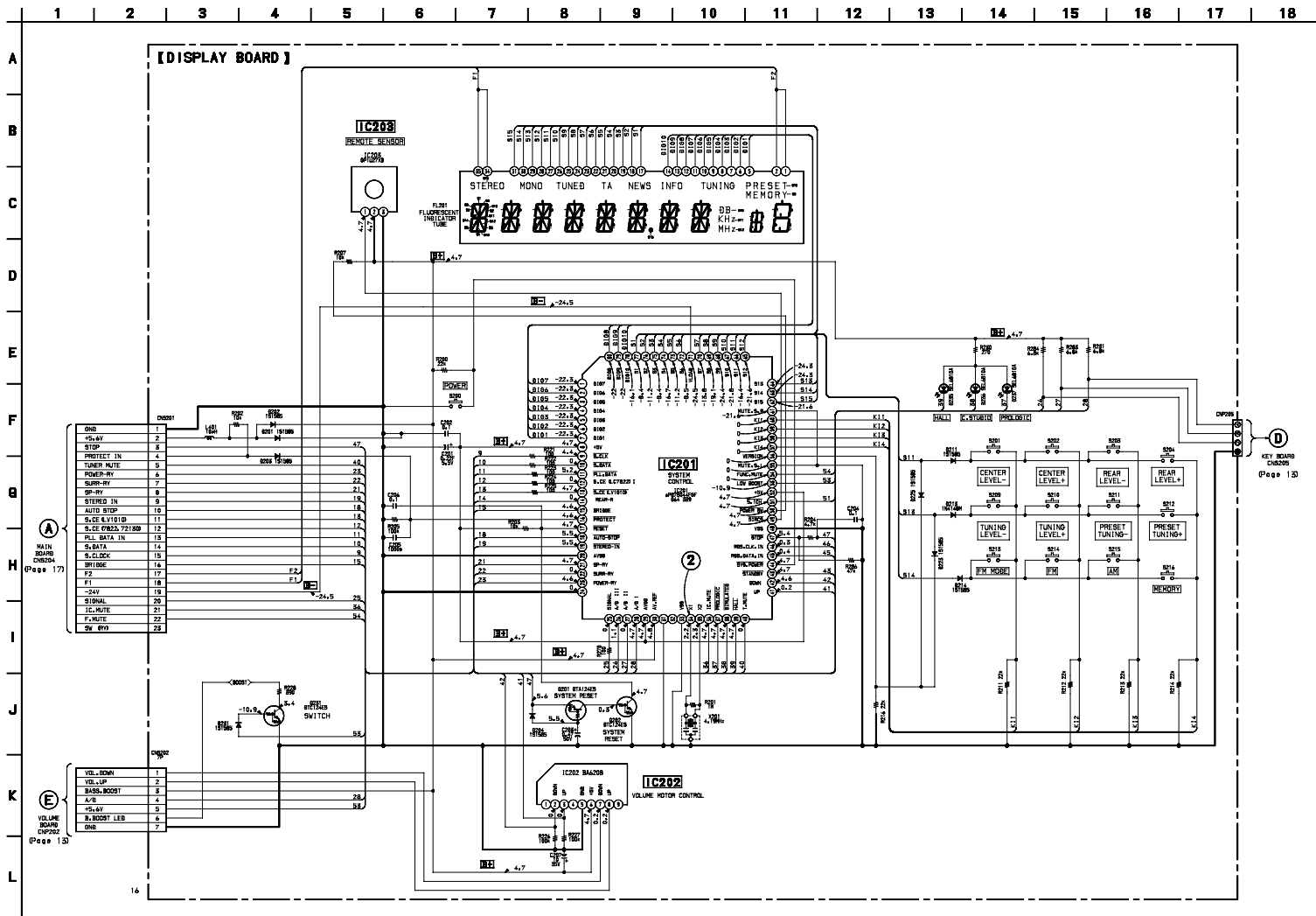
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FM STEREO/FM-AM RECEIVER

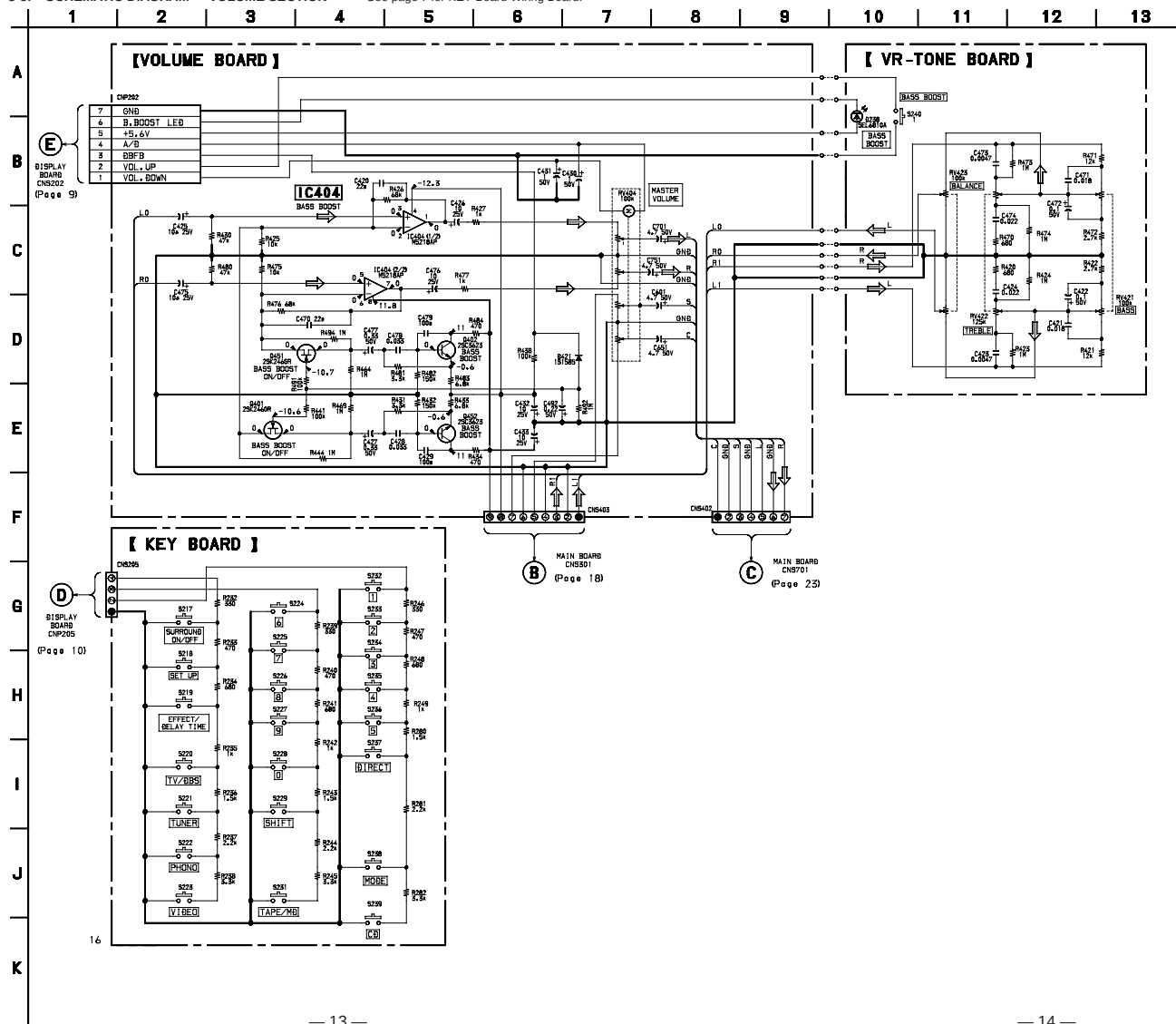


SONY®

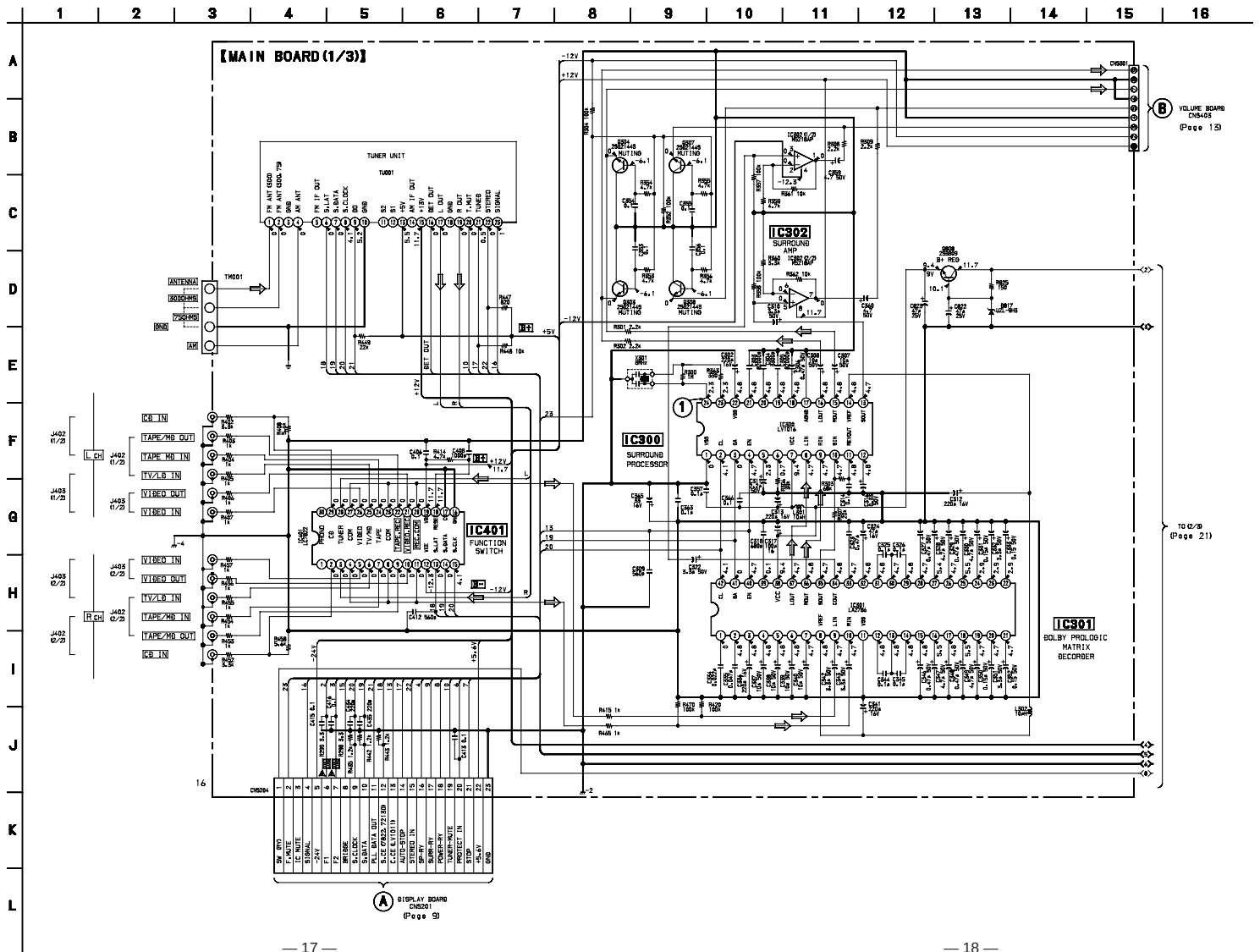
3-3. SCHEMATIC DIAGRAM — DISPLAY SECTION — • See page 6 for Waveforms. • See page 25 for IC Pin Functions. • See page 27 for IC Block Diagrams.



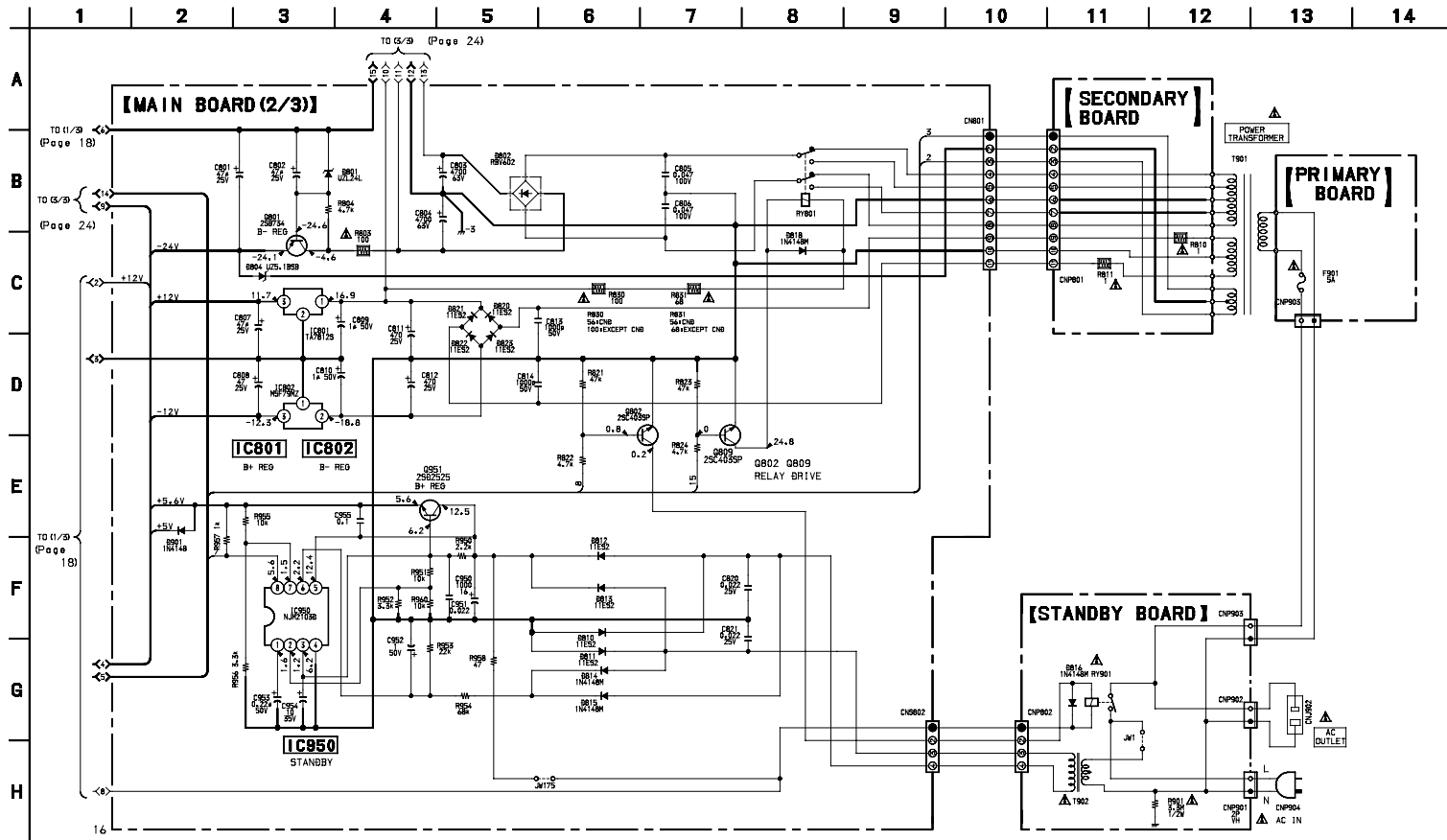
3-5. SCHEMATIC DIAGRAM — VOLUME SECTION — • See page 7 for KEY Board Wiring Board.



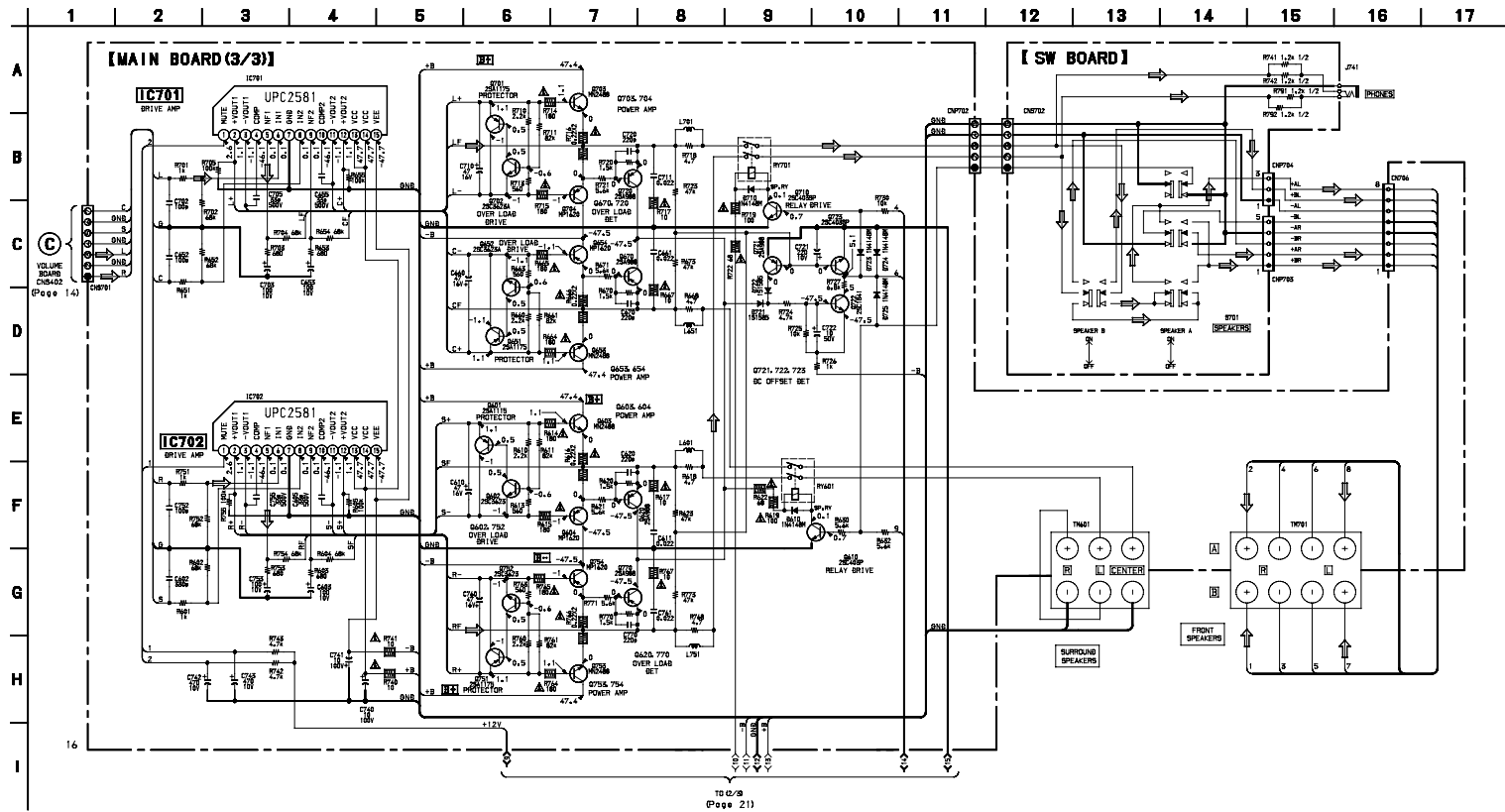
3-7. SCHEMATIC DIAGRAM — MAIN (1/3) SECTION — • See page 27 for IC Block Diagrams.



3-9. SCHEMATIC DIAGRAM — MAIN (2/3), POWER SECTION — • See page 27 for IC Block Diagrams.

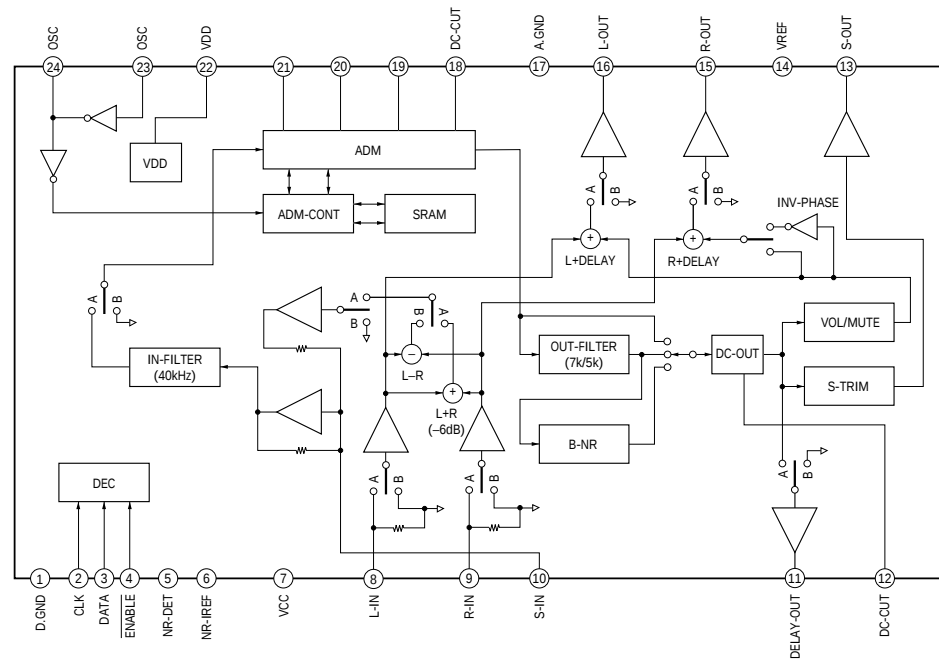


3-10. SCHEMATIC DIAGRAM — MAIN (3/3), SP SW SECTION — • See page 12 for SW Board Wiring Board. • See page 27 for IC Block Diagrams.

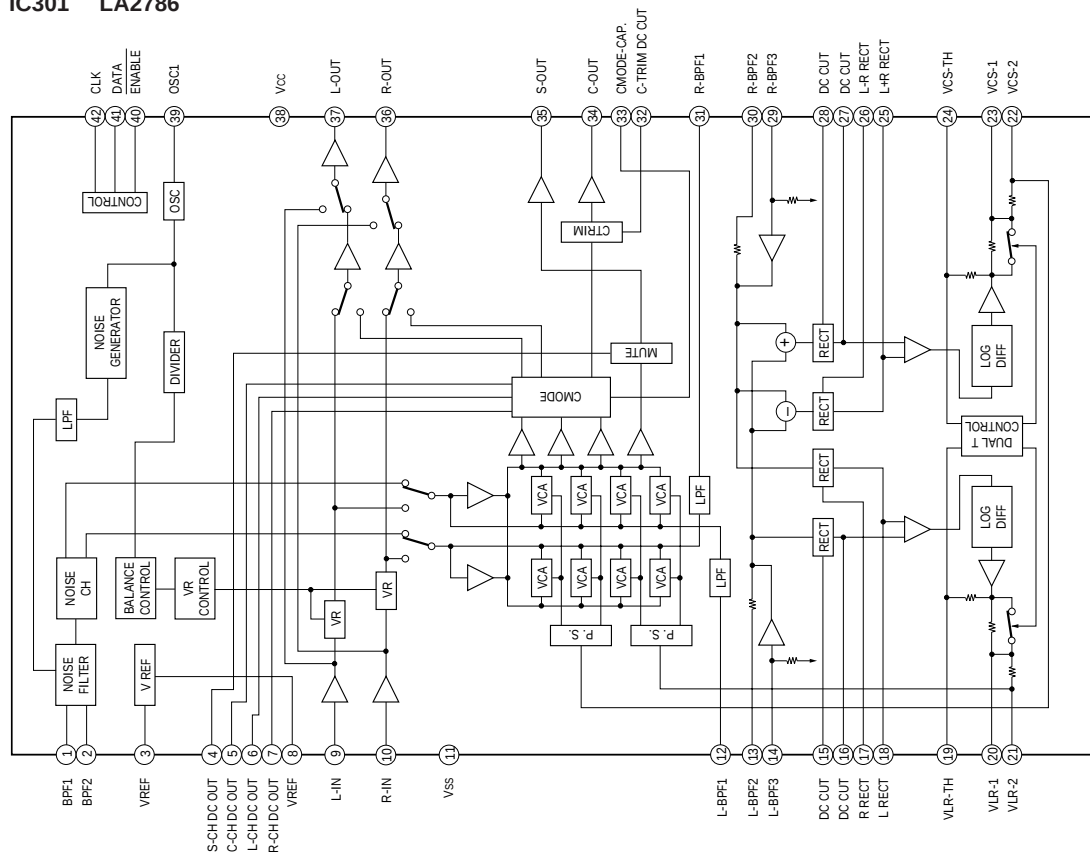


3-12. IC BLOCK DIAGRAMS

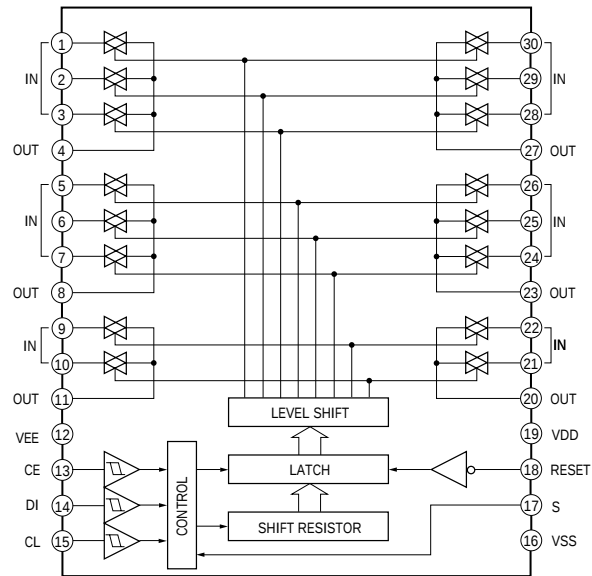
IC300 LV1016



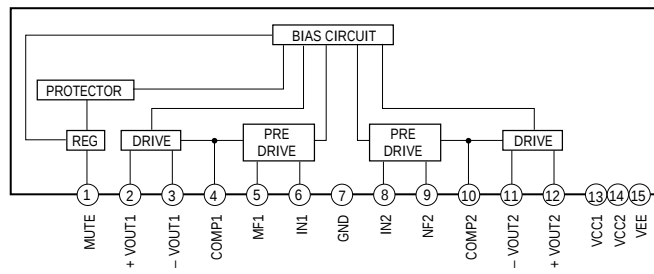
IC301 LA2786



IC401 LC7822



IC701 μ PC2581



IC202 BA6208

