HST-SE581

SERVICE MANUAL

AEP Model
E Model
Australian Model

- This set is the tuner deck and amplifier section in SEN-T481.

Tape deck	Model Name Using Similar Mechanism	HST-471
Section	Tape Transport Mechanism Type	TCM-220WR2

SPECIFICATIONS

Tuner section

FM stereo, FM / AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM leadantena
Antenna terminals	75 Ω unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuningrange
- European model: 531 – 1,602 kHz
- Other models: 531 – 1,602 kHz (with the interval set at 9 kHz)
  530 – 1,710 kHz (with the interval set at 10kHz)
- Antenna: AM loop antenna, outdoor antenna terminals
- Intermediate frequency: 450 kHz

Amplifier section

European models:

(FRONT)
DIN power output: 90 + 90 W
(at rear / center / woofer off at 1 kHz, 8 Ω)

Continuous RMS power output
110 + 110 W
(at rear / center / woofer off at 1 kHz, 10% THD, 8 Ω)
70 W / ch
(at SURROUND ON at 1 kHz, 10% THD, 8 Ω)

(REAR) 40 W
(at front / center / woofer off at 1 kHz, 8 Ω)
(CENTER) 40 W
(at front / rear / woofer off at 1 kHz, 8 Ω)
(WOOFER) 70 W
(at front / rear / center off at 40 Hz, 4 Ω)

Other models:

Peak music power output
1,600 W (total)
(FRONT)
Continuous RMS power output
90 + 90 W
(at rear / center / woofer off at 1 kHz, 10% THD, 8 Ω)
(REAR) 40 W
(at front / center / woofer off at 1 kHz, 8 Ω)
(CENTER) 40 W
(at front / rear woofer off at 1 kHz, 8 Ω)
(WOOFER) 70 W
(at front /rear/ center off at 40 Hz, 4 Ω)

Inputs
- PHONO (phono jacks): sensitivity 2.5 mV, impedance 50 kΩ
- CD (phono jacks): sensitivity 400 mV, impedance 50 kΩ
- VIDEO1, 2 (phono jacks): sensitivity 250 mV, impedance 50 kΩ

— Continued on next page —

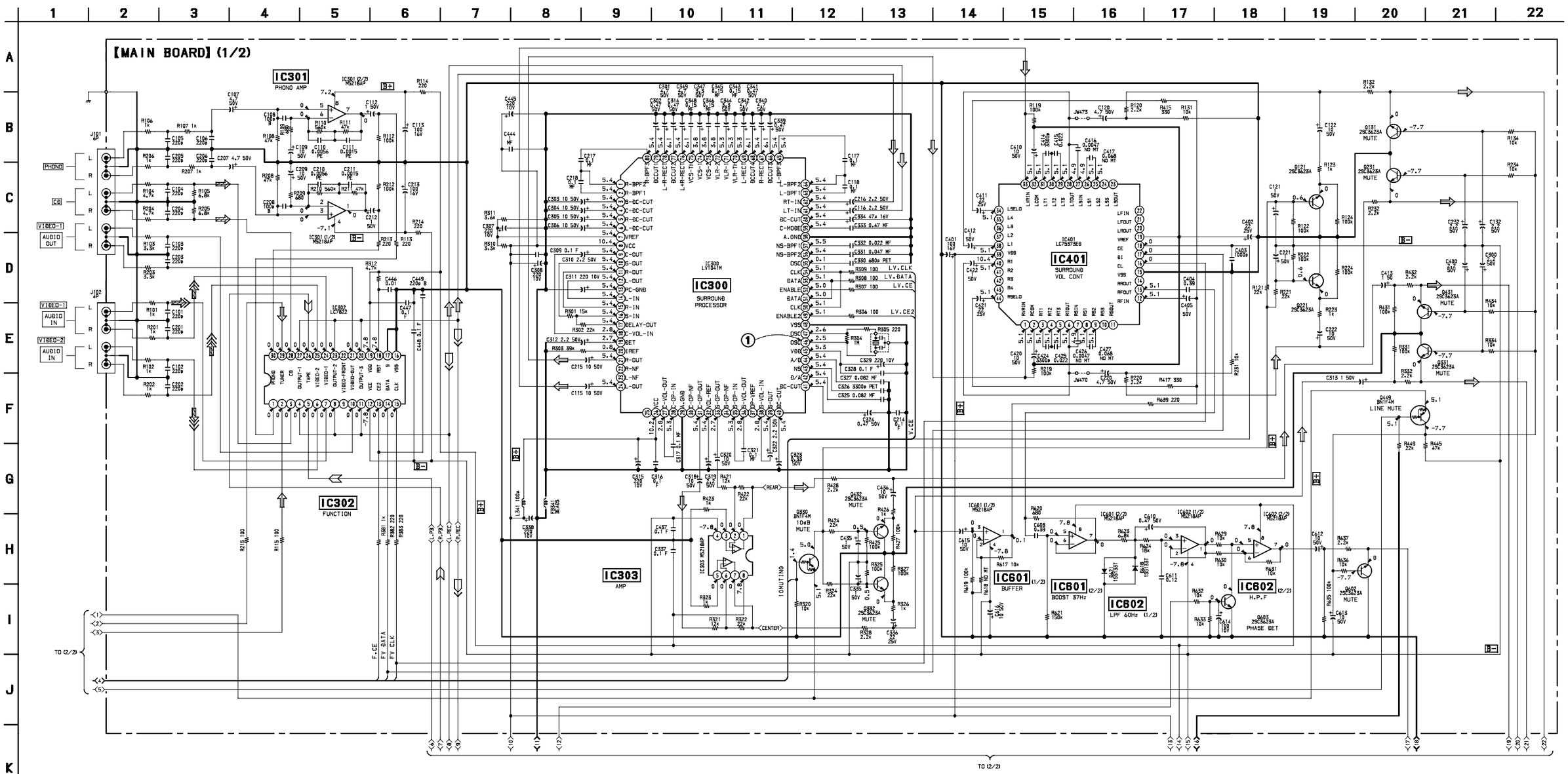
CASSETTE DECK RECEIVER

MICROFILM

SONY®

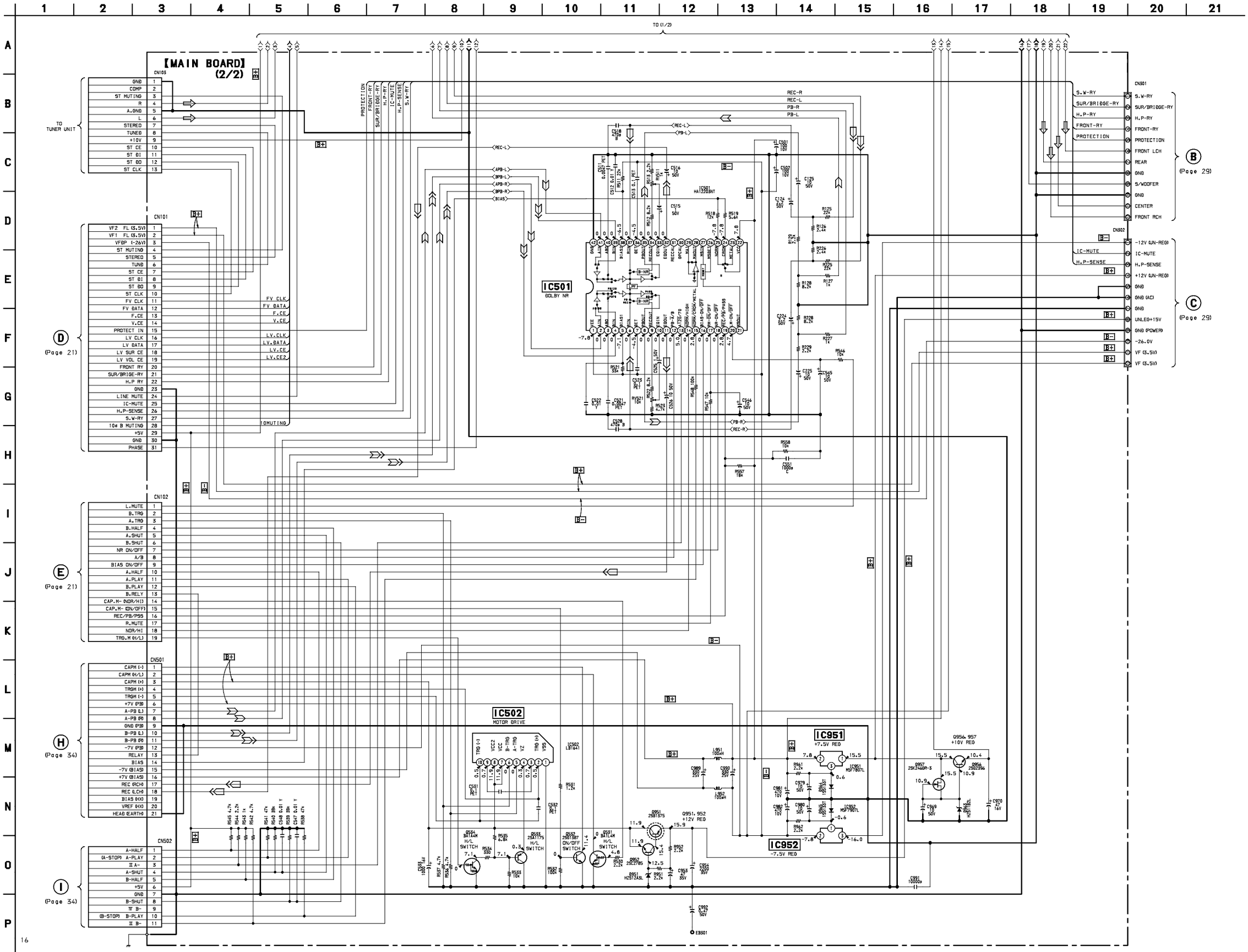
5-3. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) —

• See page 10 for Waveforms. • See page 39 for IC Block Diagrams.



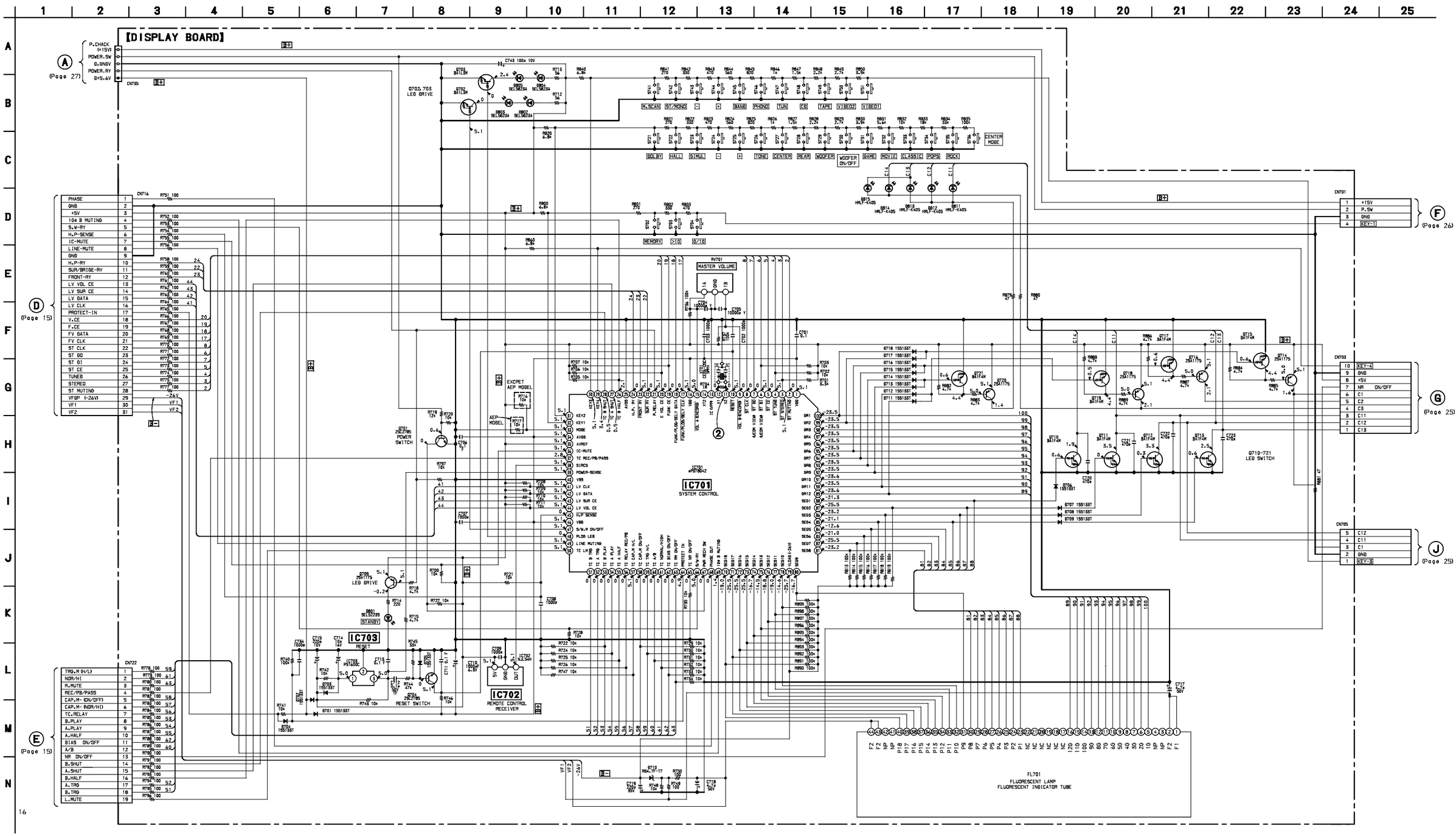
5-4. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) —

• See page 39 for IC Block Diagrams.

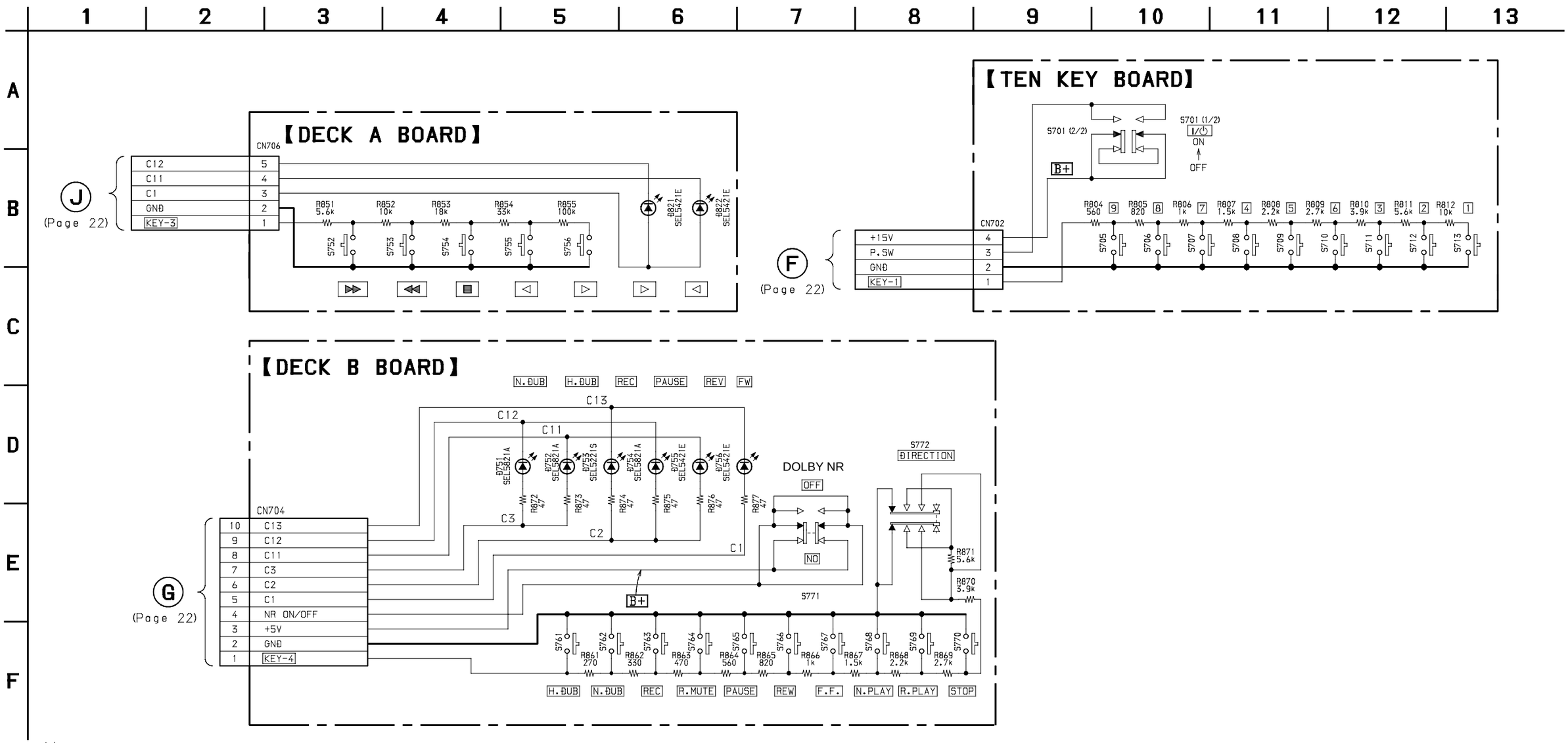


5-7. SCHEMATIC DIAGRAM — DISPLAY SECTION —

• See page 10 for Waveforms. • See page 41 for IC Pin Function.

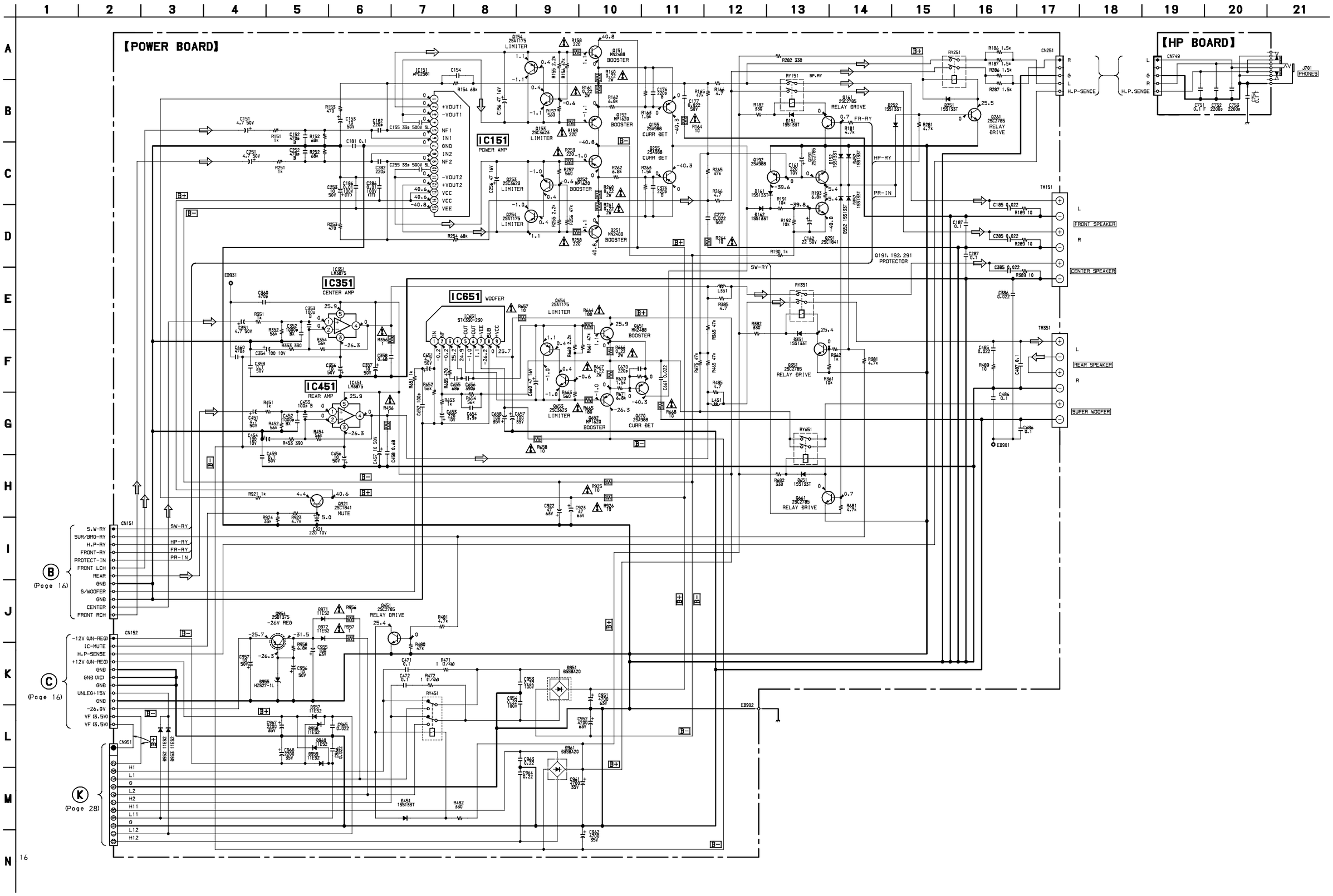


5-9. SCHEMATIC DIAGRAM — SW SECTION —



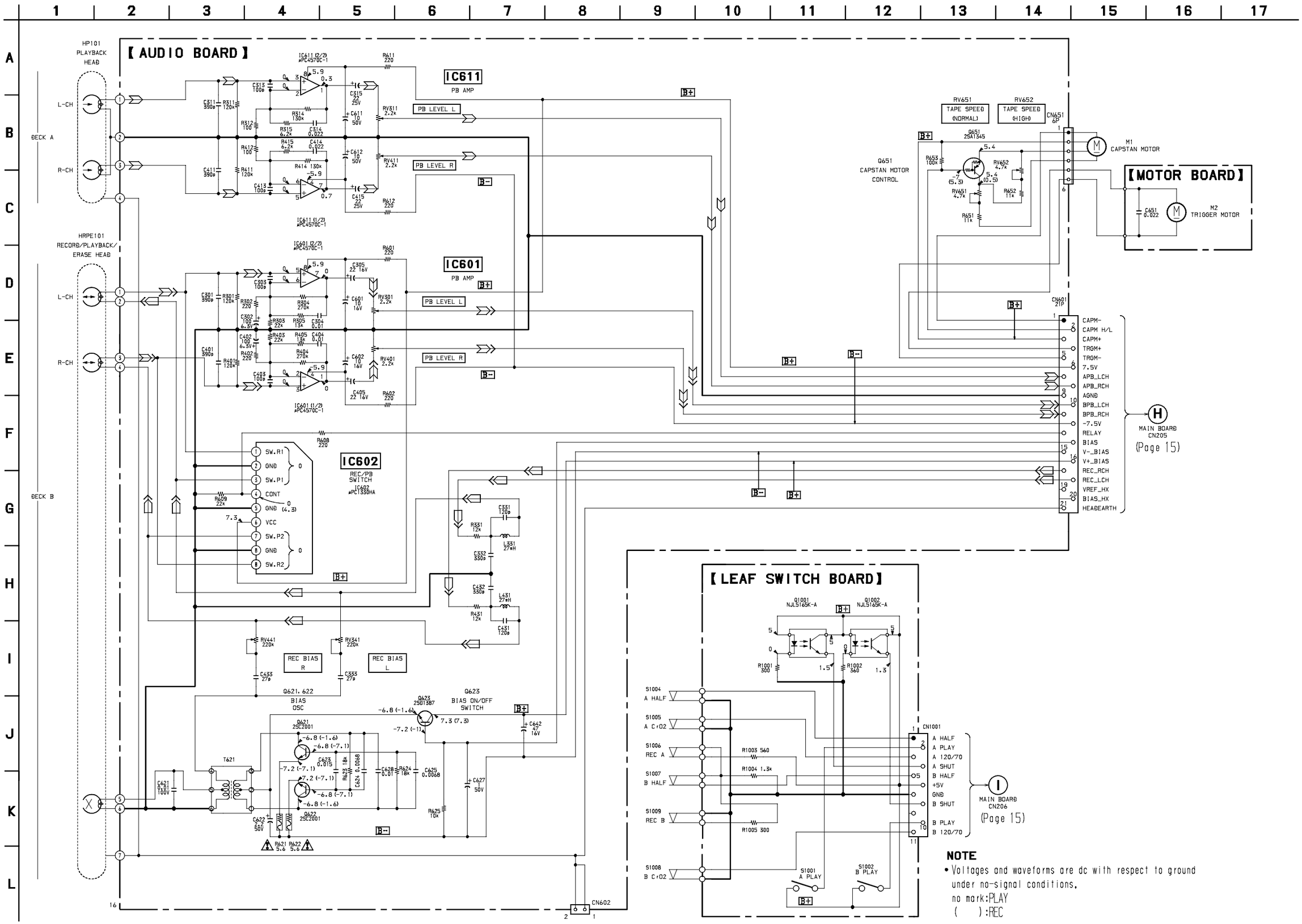
5-11. SCHEMATIC DIAGRAM — POWER AMP SECTION —

• See page 39 for IC Block Diagrams.



5-13. SCHEMATIC DIAGRAM — DECK SECTION —

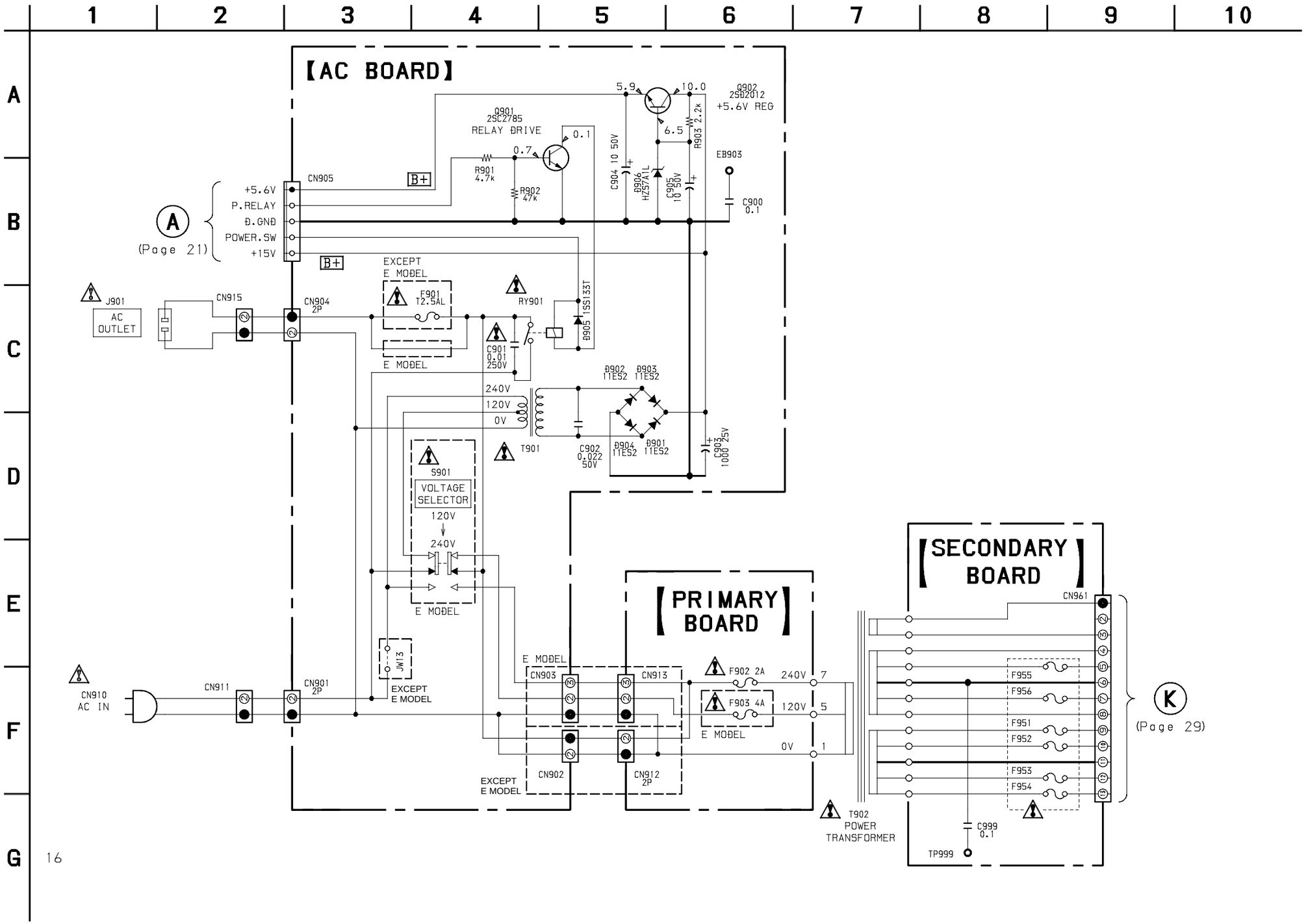
• See page 39 for IC Block Diagrams.



NOTE

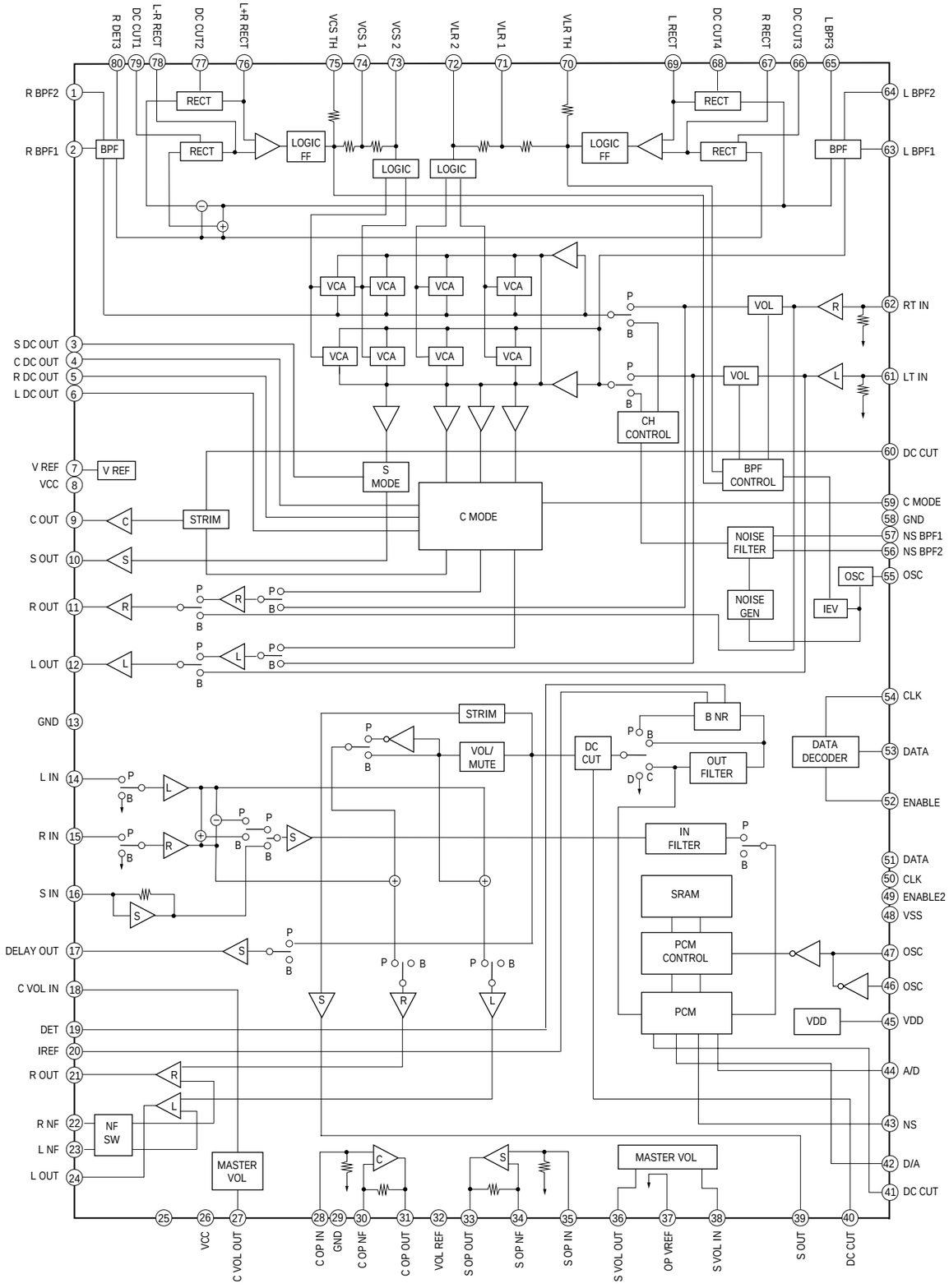
- Voltages and waveforms are dc with respect to ground under no-signal conditions,
  no mark:PLAY
  ( ):REC

5-15. SCHEMATIC DIAGRAM — POWER TRANSFORMER SECTION —

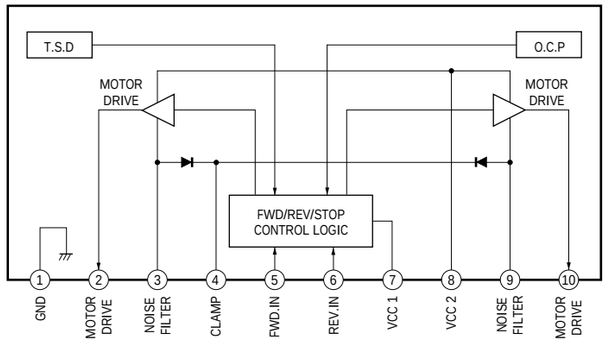


5-16. IC BLOCK DIAGRAMS

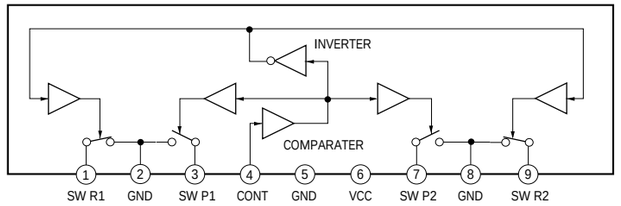
IC300 LV1041M (MAIN BOARD)



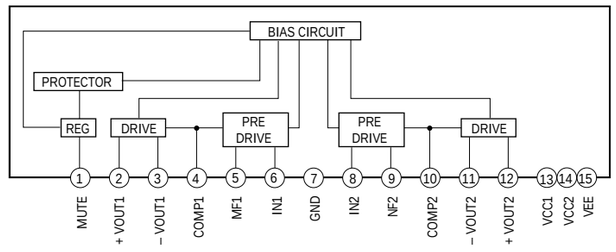
IC502 LB1641 (MAIN BOARD)



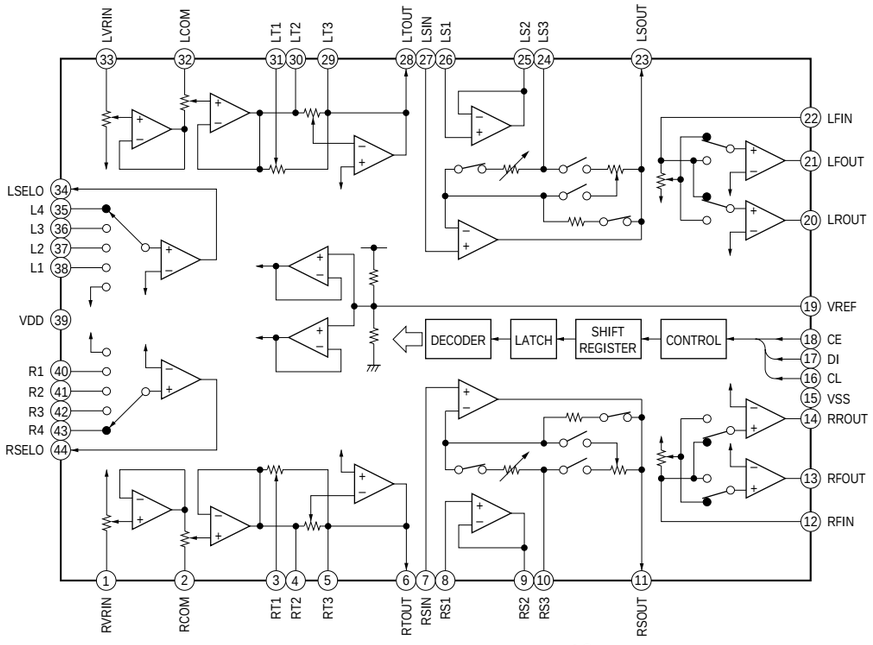
IC602 UPC1330HA (AUDIO BOARD)



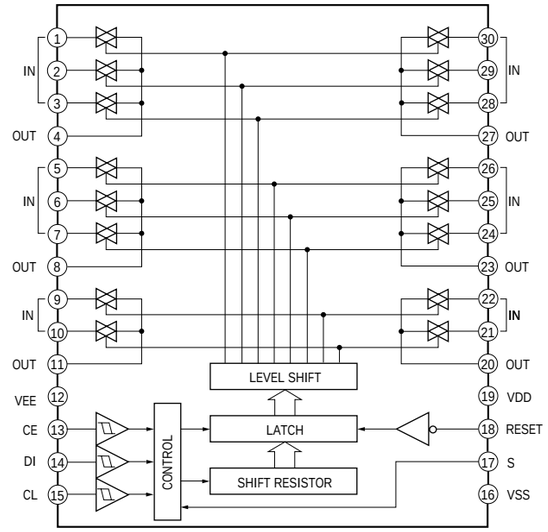
IC151 UPC2581V (POWER BOARD)



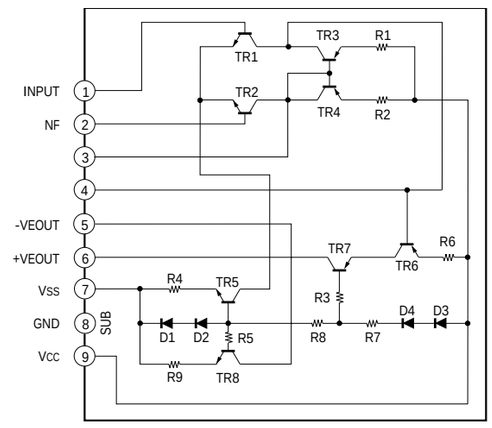
IC401 LC75373ED (MAIN BOARD)



IC302 LC7822 (MAIN BOARD)

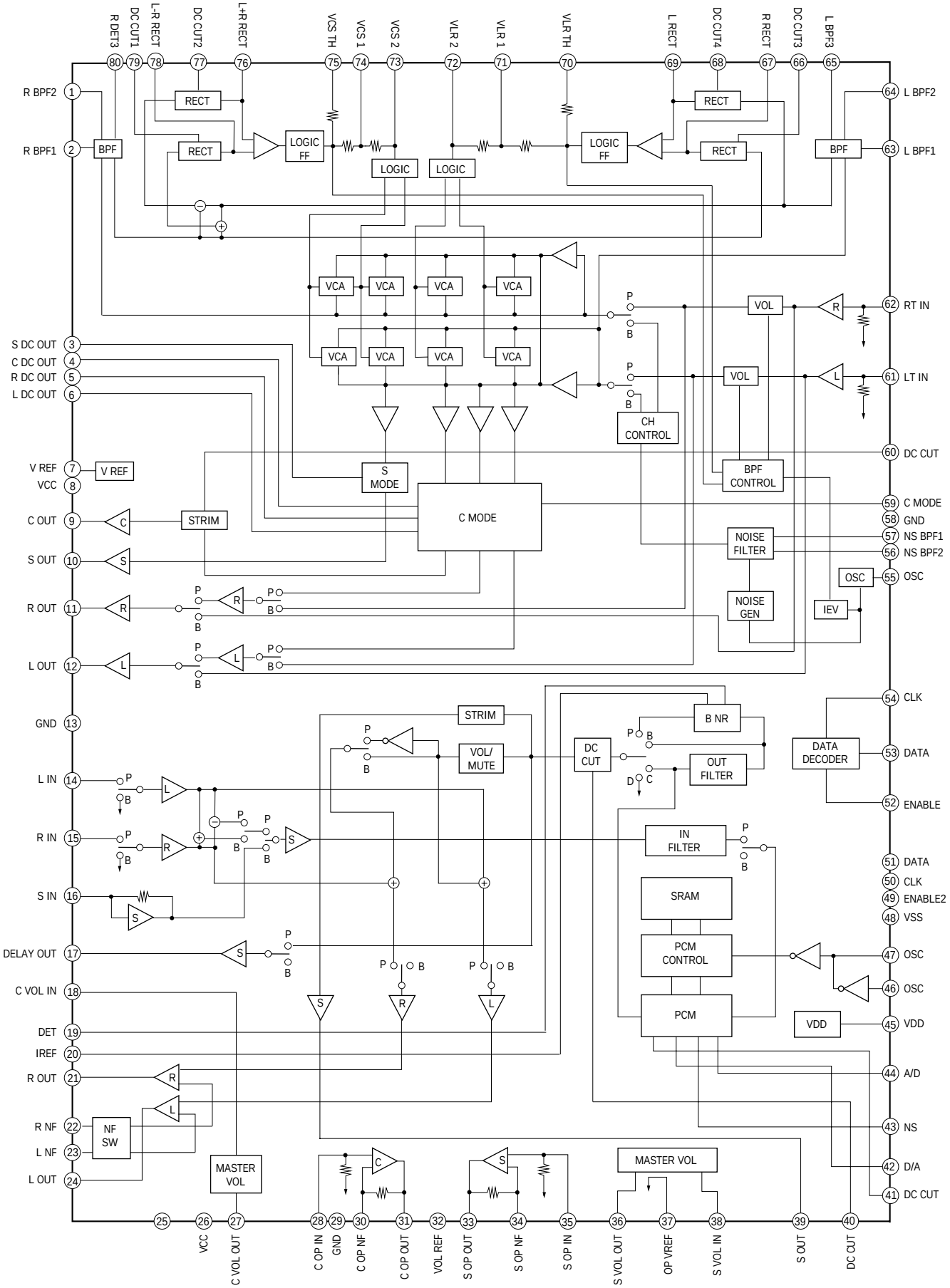


IC651 STK350-230 (POWER BOARD)

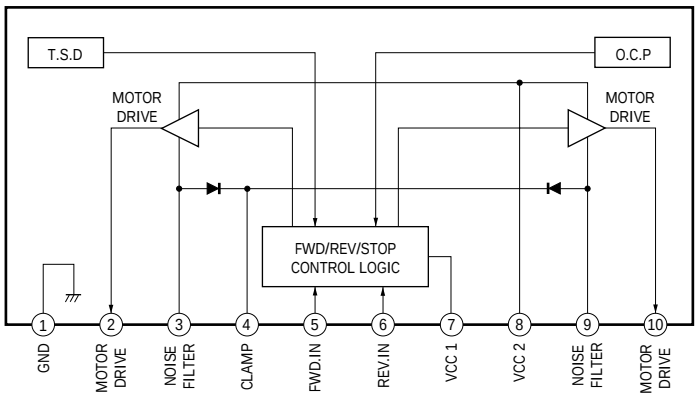


5-16. IC BLOCK DIAGRAMS

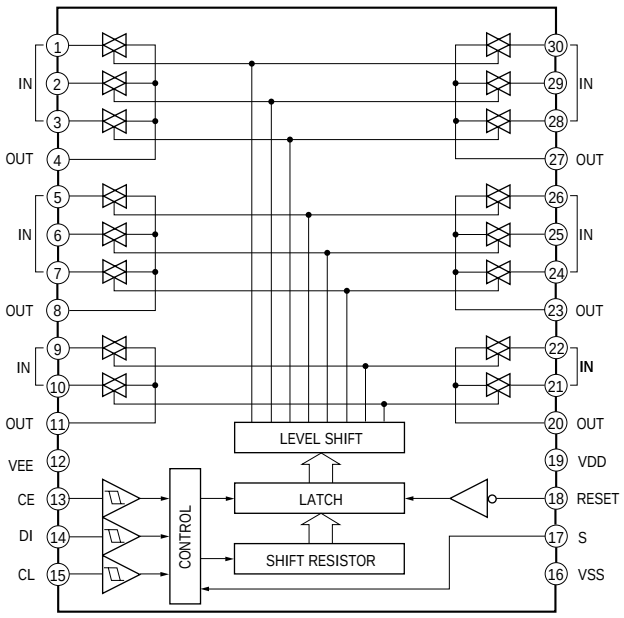
IC300 LV1041M (MAIN BOARD)



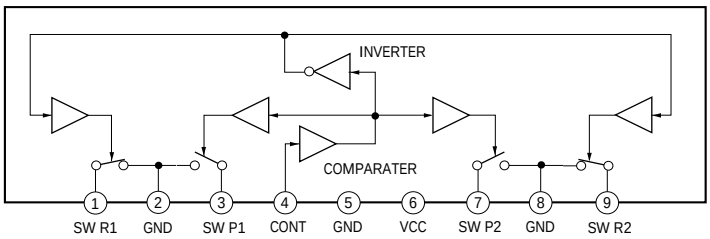
IC502 LB1641 (MAIN BOARD)



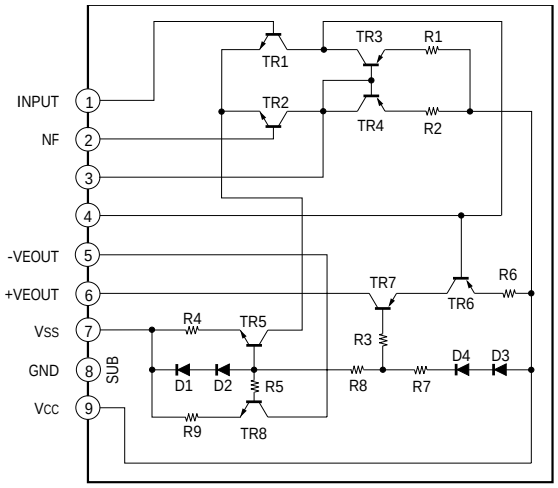
IC302 LC7822 (MAIN BOARD)



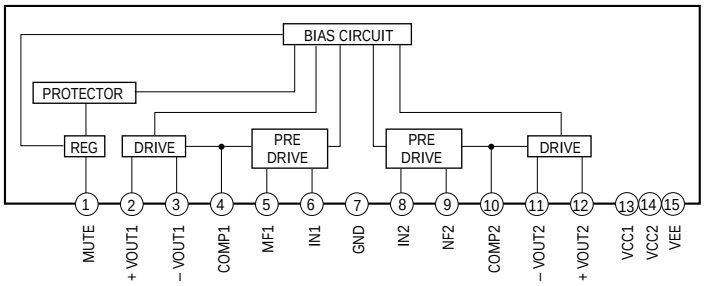
IC602 UPC1330HA (AUDIO BOARD)



IC651 STK350-230 (POWER BOARD)



IC151 UPC2581V (POWER BOARD)



IC401 LC75373ED (MAIN BOARD)