

# STR-W555

## SERVICE MANUAL

*AEP Model  
UK Model  
E Model  
Australian Model  
Chinese Model  
Tourist Model*



STR-W555 is the tuner and amplifier section in MHC-W555.

Photo : E model

### SPECIFICATIONS

#### Amplifier section

DIN power output (rated) (Front)  
80 + 80 watts  
(6 ohms at 1 kHz)

Continuous RMS power output (reference)  
FRONT SPEAKER:  
100 + 100 watts  
(6 ohms at 1 kHz,  
10% THD)

Music power output (reference):  
190 + 190 watts  
(6 ohms at 1 kHz,  
10% THD)

Inputs  
MD/VIDEO 1 IN (phono  
jacks): voltage 450/250  
mV, impedance 47  
kilohms  
AV INPUT AUDIO  
(phono jacks):  
voltage 250 mV,  
impedance 47 kilohms  
MIX MIC (phono jacks):  
sensitivity 1 mV,  
impedance 10 kilohms

Outputs  
MD/VIDEO 1 OUT  
(phono jacks): voltage  
450/250 mV, impedance 1  
kilohm  
PHONES (stereo phone  
jack): accepts headphones  
of 8 ohms or more.  
FRONT SPEAKER:  
accepts impedance of 6 to  
16 ohms  
REAR SPEAKER: accepts  
impedance of 16 ohms.  
SUPER WOOFER:  
voltage 1 V, impedance  
1 kilohm

#### Video section

Inputs  
AV INPUT VIDEO  
(phono jack):  
1 Vp-p, 75 ohms

Outputs  
MONITOR OUT  
(phono jack):  
1 Vp-p, 75 ohms

#### Tuner section

FM stereo, FM/AM superheterodyne tuner

#### FM tuner section

Tuning range  
3 band type model: 87.5 – 108.0 MHz  
(50 kHz step)  
4 band type model: 65.0 – 74.0 MHz  
(10 kHz step)  
87.5 – 108.0 MHz  
(50 kHz step)

Aerial  
Aerial terminals  
Intermediate frequency  
FM lead aerial  
75 ohms unbalanced  
10.7 MHz

#### UKV tuner section (4 band type model only)

Tuning range  
65.0 – 74.0 MHz  
(10 kHz step)  
Polar Stereo

#### AM tuner section

Tuning range  
MW: (with interval set at  
9 kHz)  
3 band type model: 531 – 1,602 kHz  
4 band type model: 531 – 1,602 kHz  
LW: 153 – 279 kHz  
(with interval set at 3 kHz)

Intermediate frequency  
Aerial  
450 kHz  
AM loop aerial  
External aerial terminal

#### General

Power requirements  
European, Thai, Israel,  
Chinese models : 220 V AC, 50/60 Hz  
Australian model : 240V AC, 50/60Hz  
Other models : 120V, 220V or 230-240V  
AC, 50/60Hz Adjustable  
with voltage selector  
220 watts

Power consumption  
Dimensions (w/h/d) : Approx. 288 x 205 x 375  
mm

Mass : Approx. 7.8 kg

Design and specifications are subject to change  
without notice.

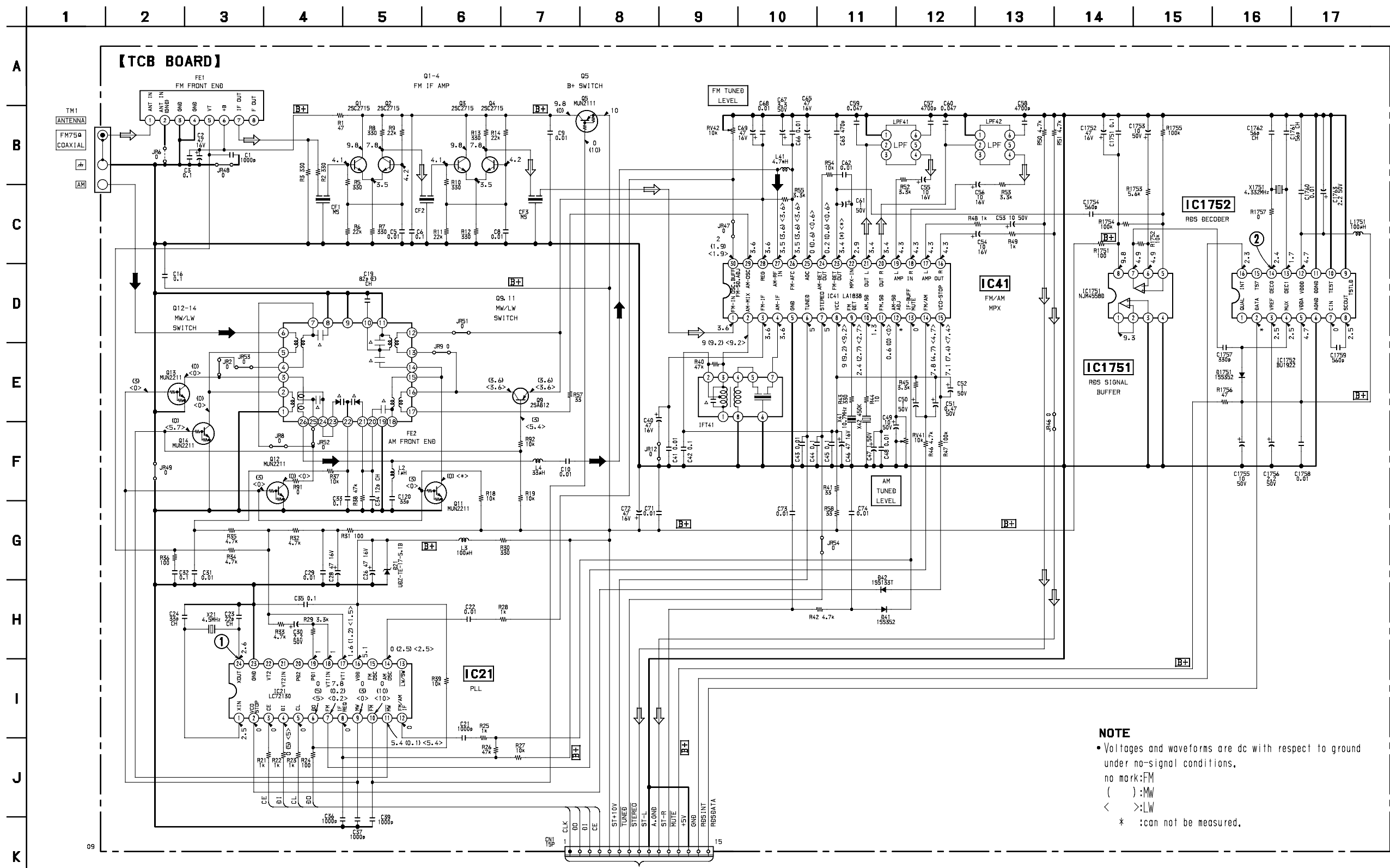
## FM STEREO/FM-AM RECEIVER



# SONY®

5-3. SCHEMATIC DIAGRAM – TUNER SECTION – (AEP, UK model)

- See page 22 for Waveforms.
- See page 52 for IC Block Diagrams.

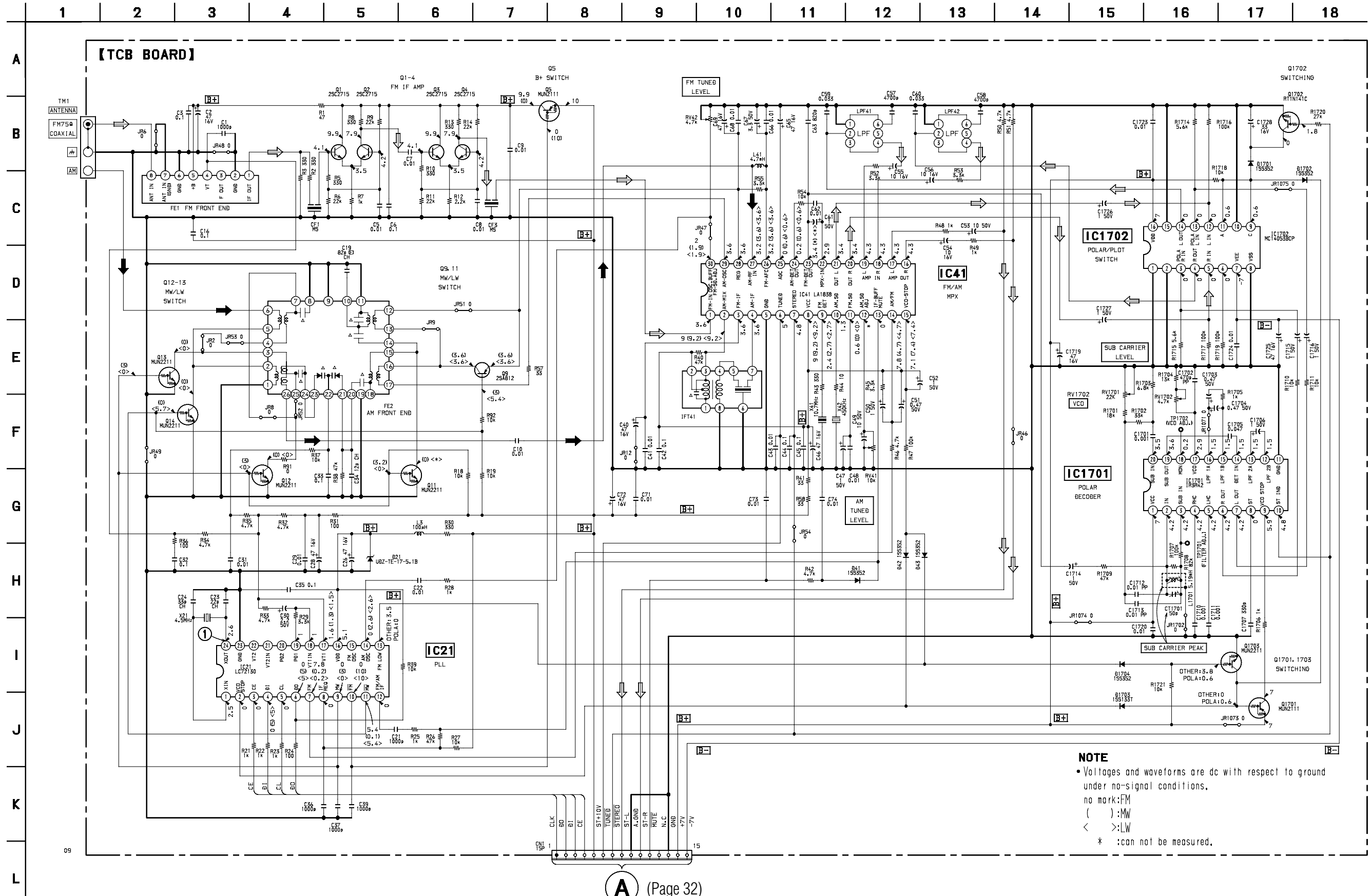


**NOTE**

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- no mark:FM
- ( ) :MW
- < > :LW
- \* :can not be measured.

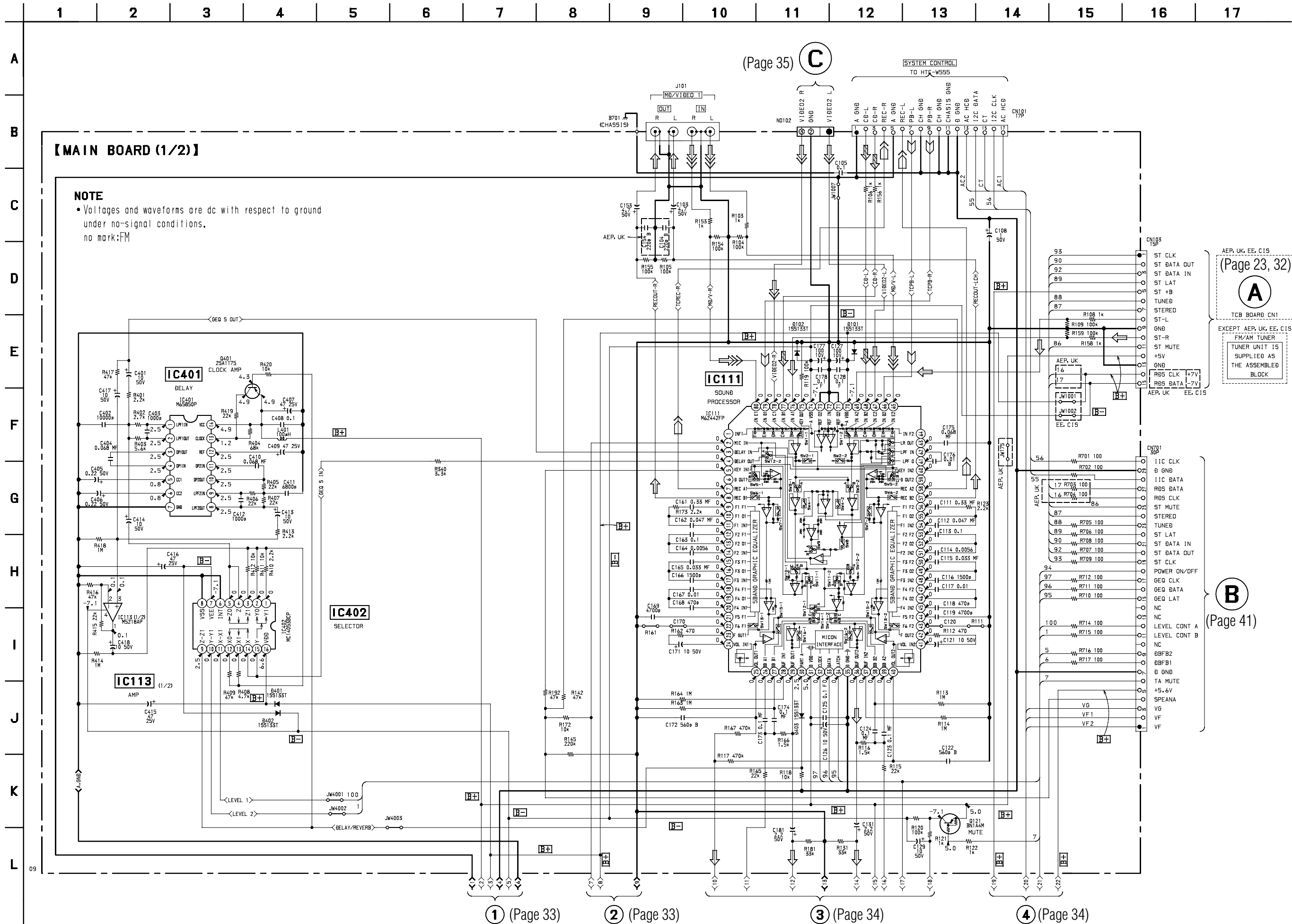
5-6. SCHEMATIC DIAGRAM – TUNER SECTION – (East European, CIS model)

- See page 14 for Waveforms.
- See page 53 for IC Block Diagrams.



5-8. SCHEMATIC DIAGRAM - MAIN (1/2) SECTION -

• See page 54 for IC Block Diagrams.

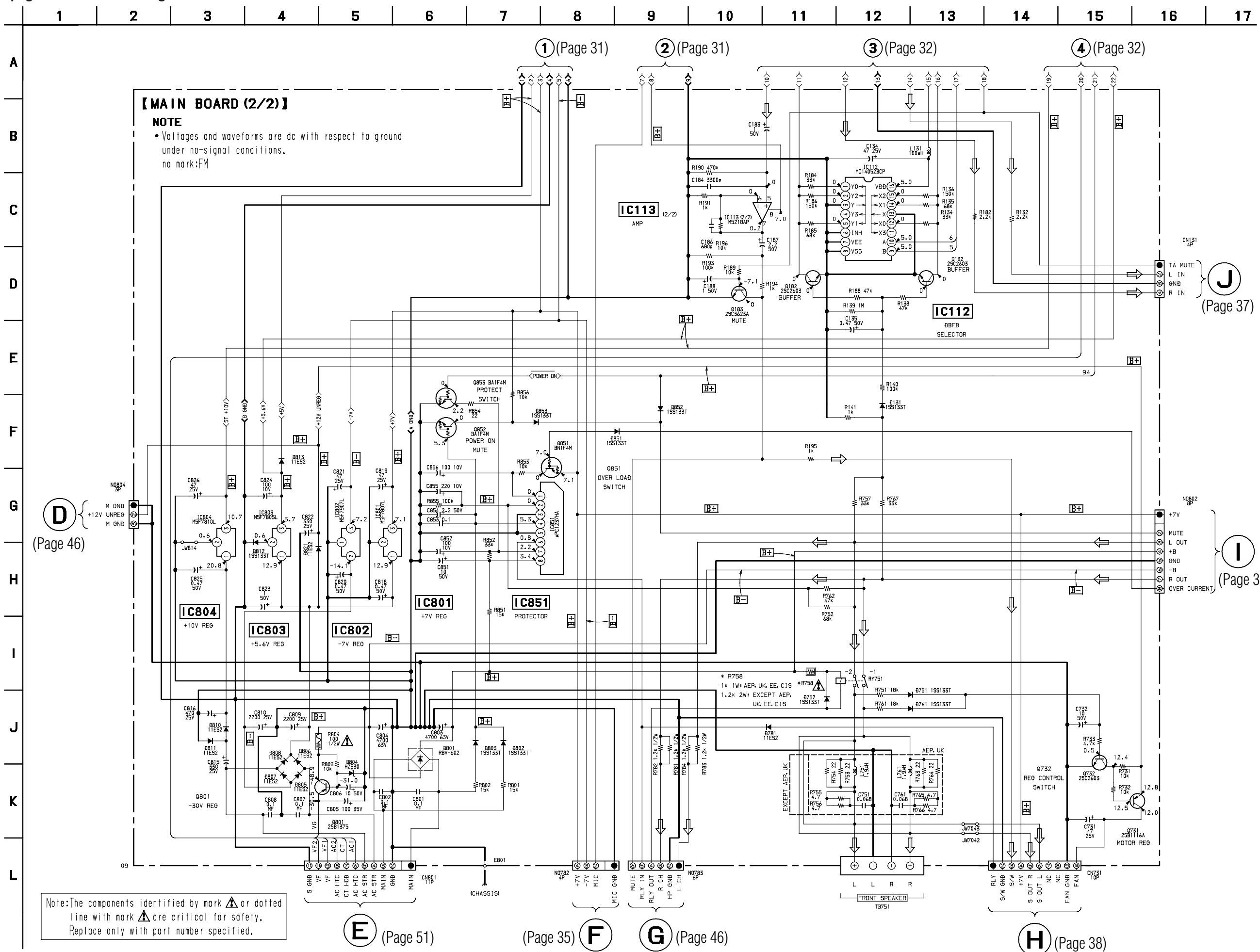


**NOTE**  
 • Voltages and waveforms are dc with respect to ground under no-signal conditions. no mark:FM

**【MAIN BOARD (1/2)】**

5-9. SCHEMATIC DIAGRAM – MAIN (2/2) SECTION –

- See page 29 for Printed Wiring Board.
- See page 54 for IC Block Diagrams.



**NOTE**  
 • Voltages and waveforms are dc with respect to ground under no-signal conditions.  
 no mark:FM

**D** (Page 46)

**J** (Page 37)

**I** (Page 38)

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

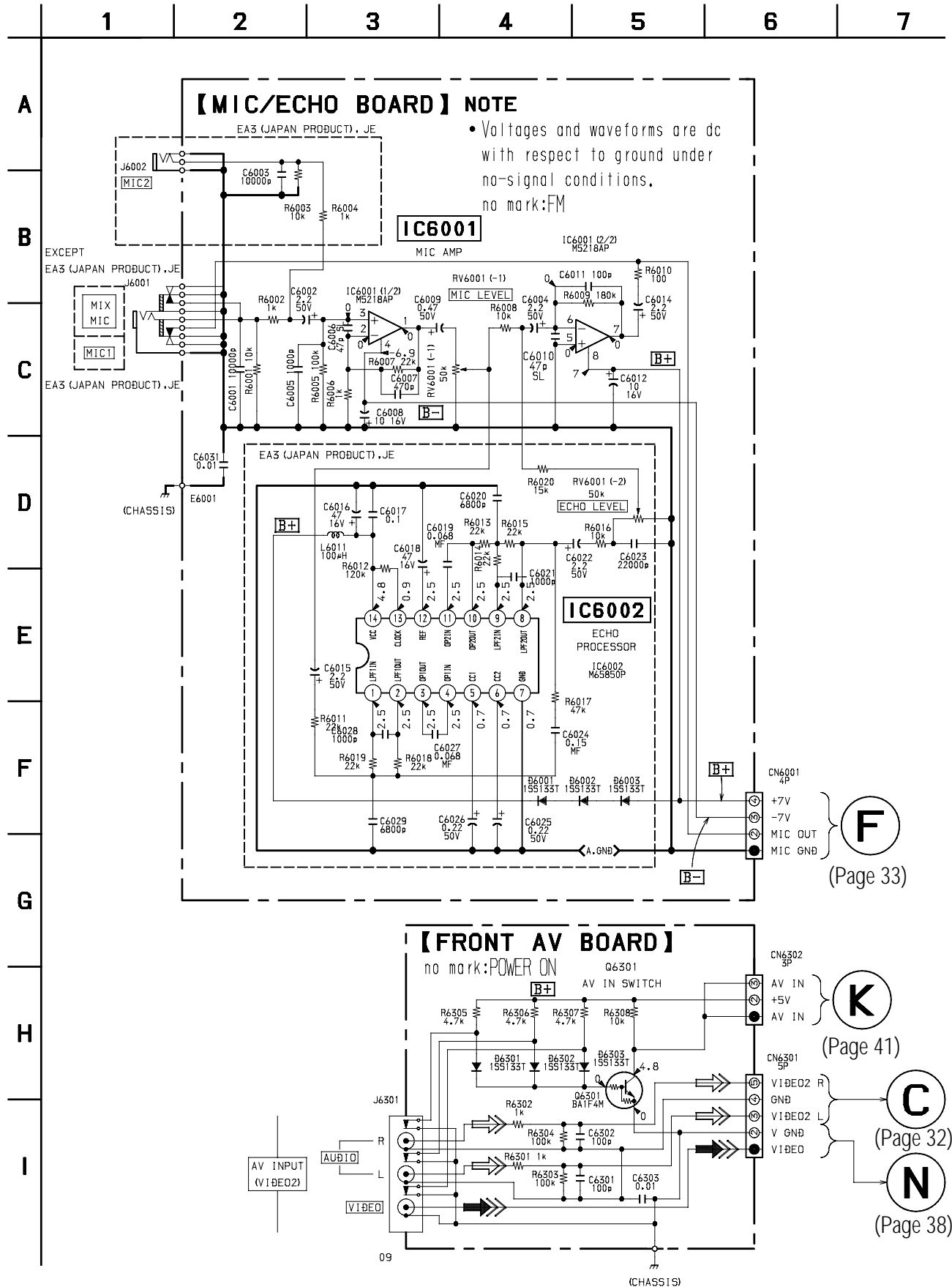
**E** (Page 51)

(Page 35) **F**

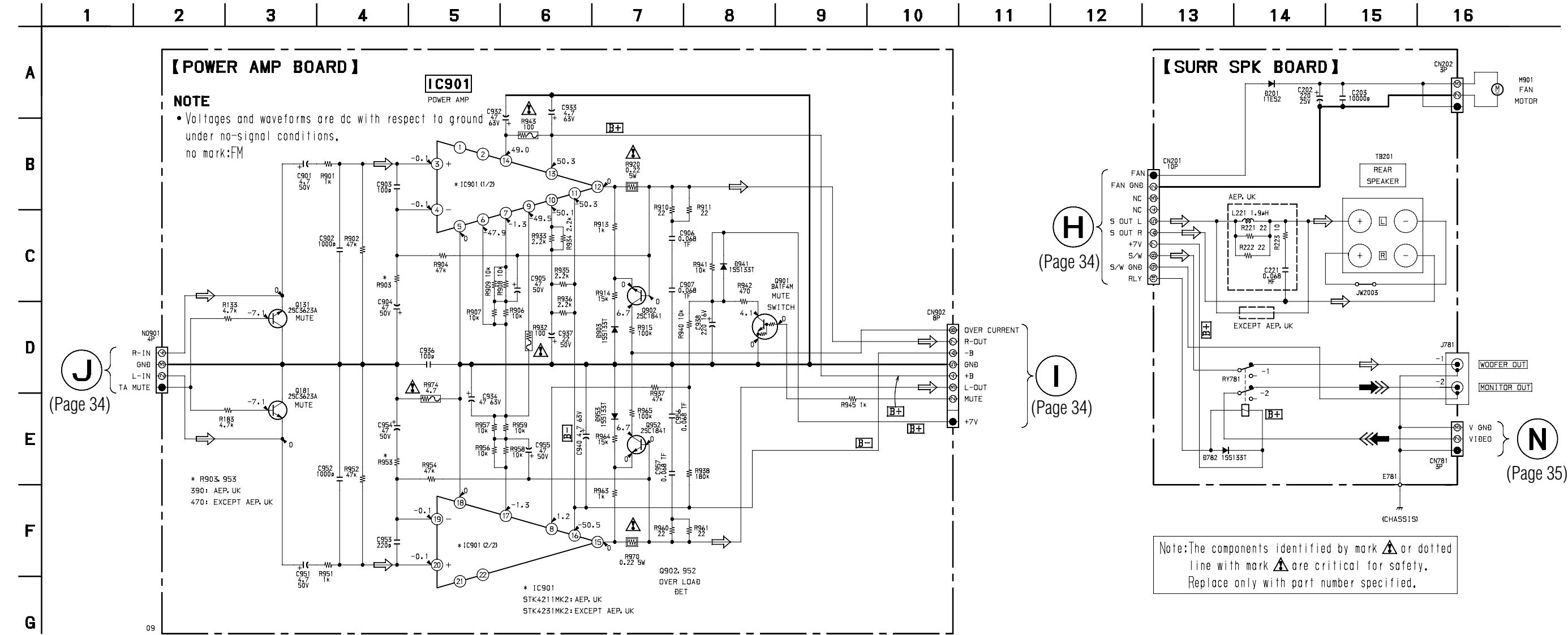
**G** (Page 46)

**H** (Page 38)

5-10. SCHEMATIC DIAGRAM - AV/MIC SECTION -  
 • See page 54 for IC Block Diagrams.

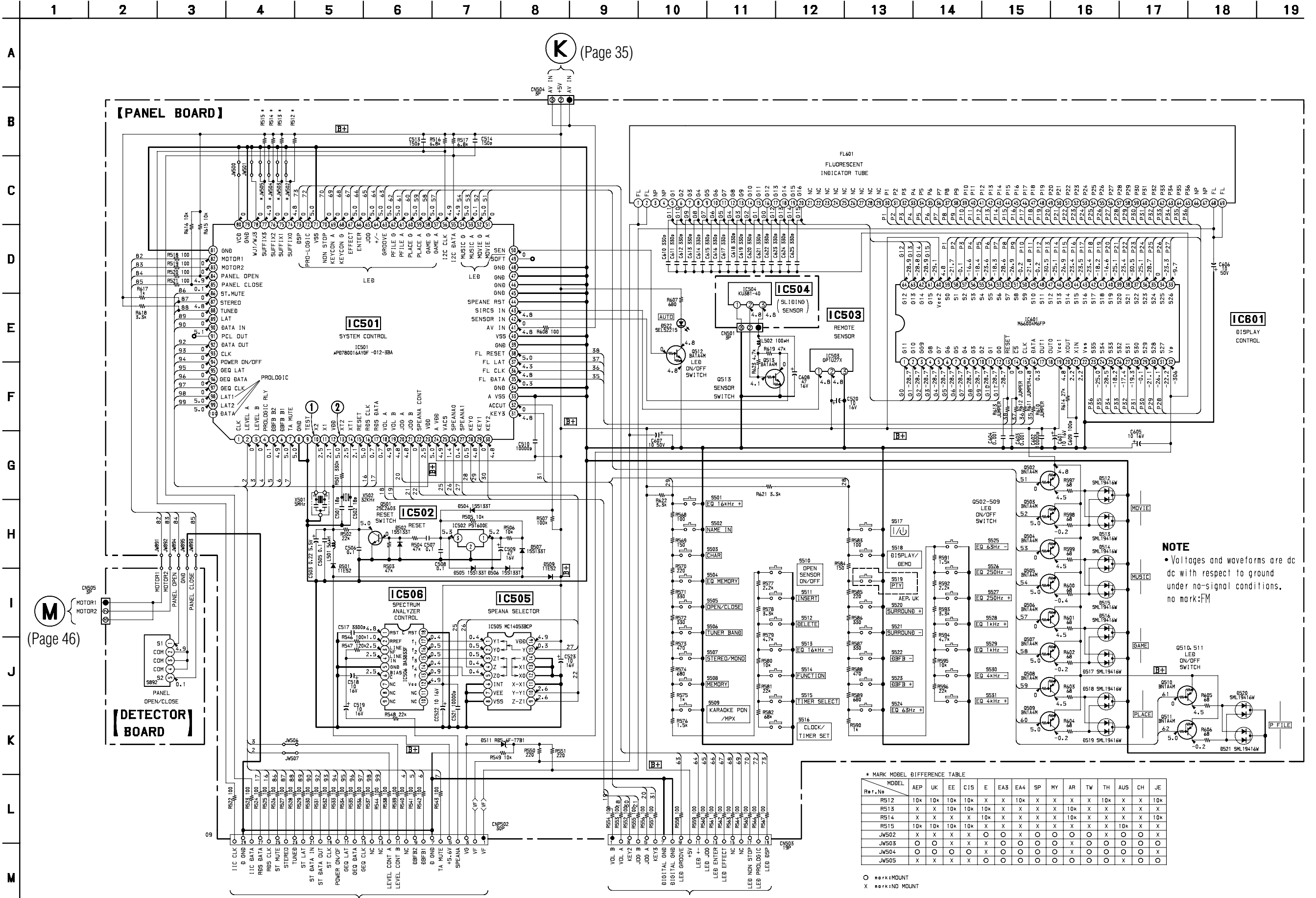


5-12. SCHEMATIC DIAGRAM – POWER AMP SECTION –



5-12. SCHEMATIC DIAGRAM – DISPLAY SECTION –

• See page 54 for IC Block Diagrams.



K (Page 35)

M (Page 46)

B (Page 32)

L (Page 45)

**NOTE**  
 • Voltages and waveforms are dc with respect to ground under no-signal conditions. no mark:FM

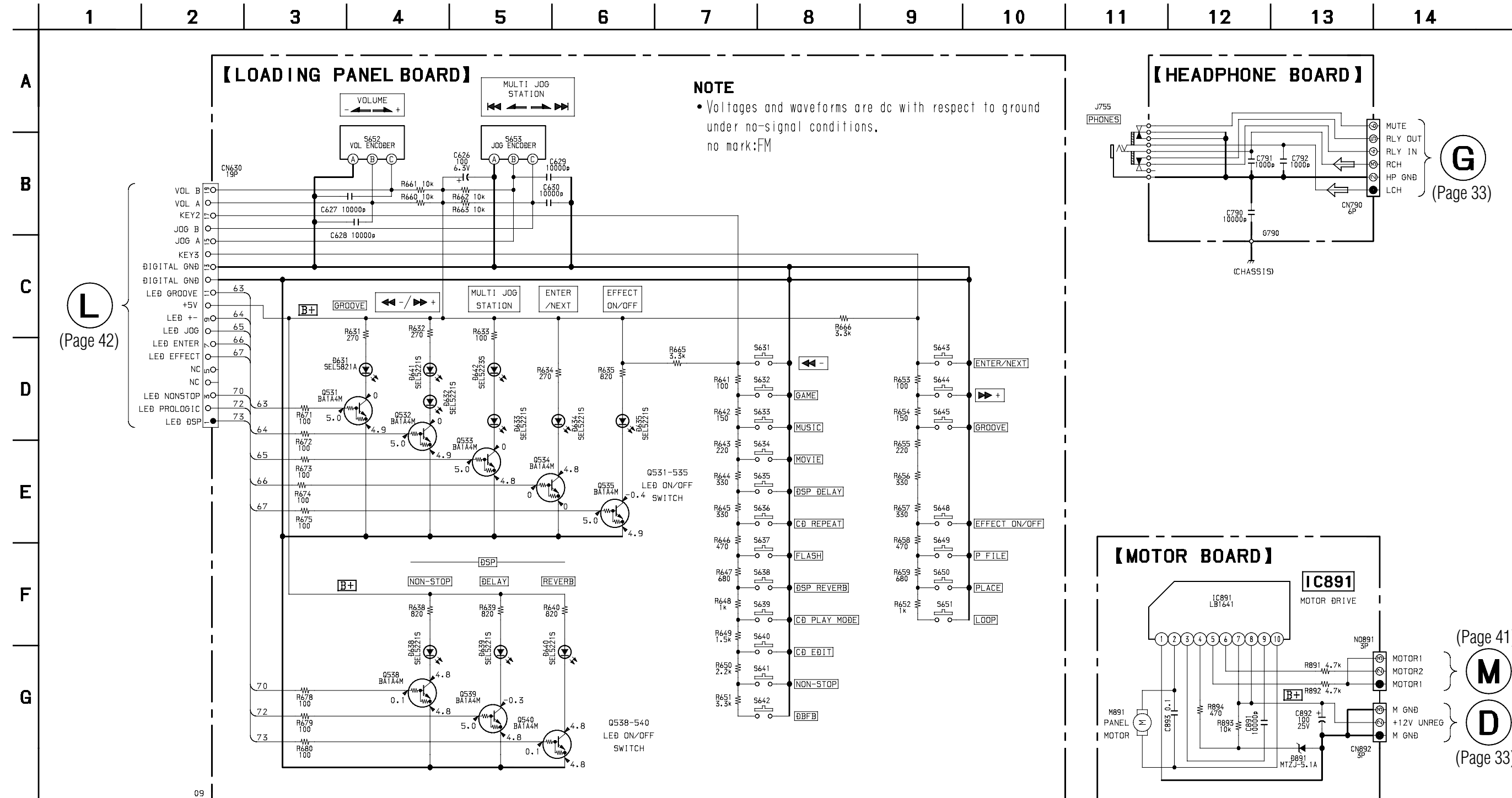
**\* MARK MODEL DIFFERENCE TABLE**

| Ref. No | MODEL | AEP | UK  | EE  | C15 | E | EA5 | EA4 | SP | MY | AR  | TW | TH  | AUS | CH | JE  |
|---------|-------|-----|-----|-----|-----|---|-----|-----|----|----|-----|----|-----|-----|----|-----|
| RS12    | 10k   | 10k | 10k | 10k | X   | X | X   | 10k | X  | X  | X   | X  | 10k | X   | X  | 10k |
| RS13    | X     | X   | 10k | 10k | 10k | X | X   | X   | X  | X  | 10k | X  | X   | X   | X  | X   |
| RS14    | X     | X   | X   | X   | 10k | X | X   | X   | X  | X  | 10k | X  | X   | X   | X  | 10k |
| RS15    | 10k   | 10k | 10k | 10k | 10k | X | X   | X   | X  | X  | X   | X  | X   | X   | X  | X   |
| JWS02   | X     | X   | X   | X   | O   | O | O   | X   | O  | O  | O   | O  | X   | O   | O  | X   |
| JWS03   | O     | O   | X   | X   | X   | X | X   | X   | O  | O  | X   | O  | O   | O   | O  | O   |
| JWS04   | O     | O   | O   | X   | O   | O | O   | O   | O  | O  | O   | O  | O   | O   | O  | X   |
| JWS05   | X     | X   | X   | X   | O   | O | O   | O   | O  | O  | O   | O  | O   | O   | O  | O   |

○ mark: MOUNT  
 X mark: NO MOUNT



5-16. SCHEMATIC DIAGRAM – SLIDING PANEL SECTION –  
• See page 54 for IC Block Diagrams.



**NOTE**  
• Voltages and waveforms are dc with respect to ground under no-signal conditions.  
no mark:FM

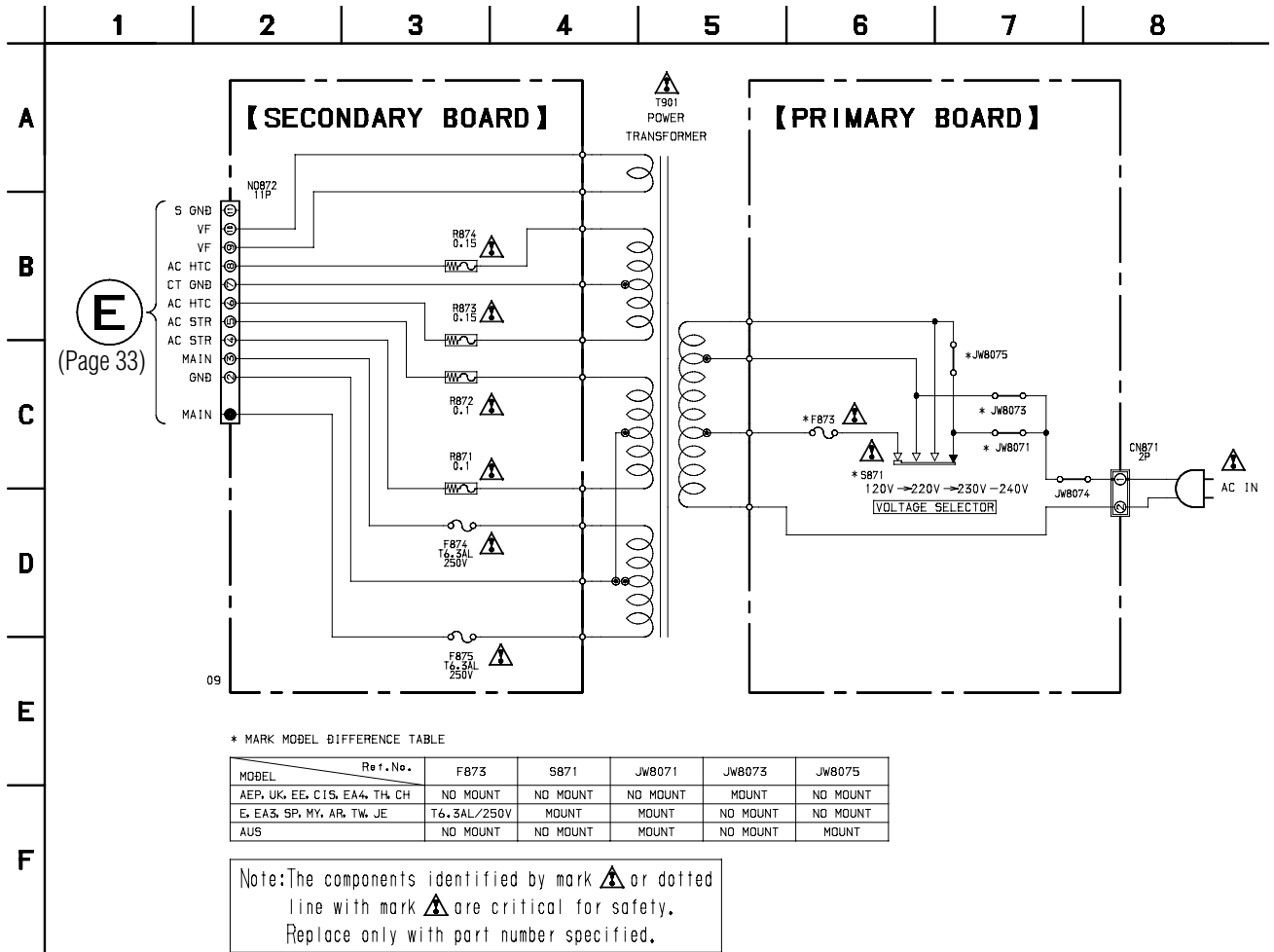
**L**  
(Page 42)

**G**  
(Page 33)

(Page 41)

**M**  
**D**  
(Page 33)

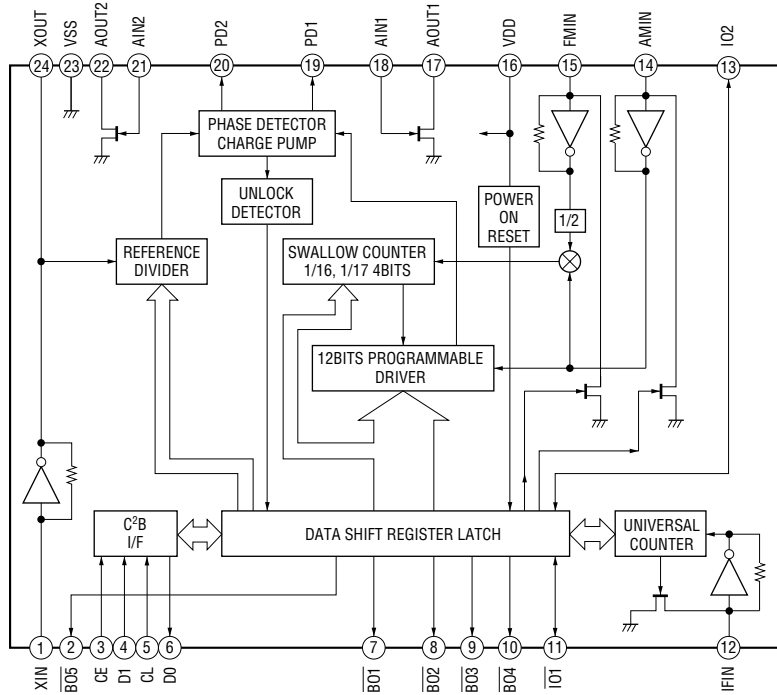
5-19. SCHEMATIC DIAGRAM – TRANS SECTION –



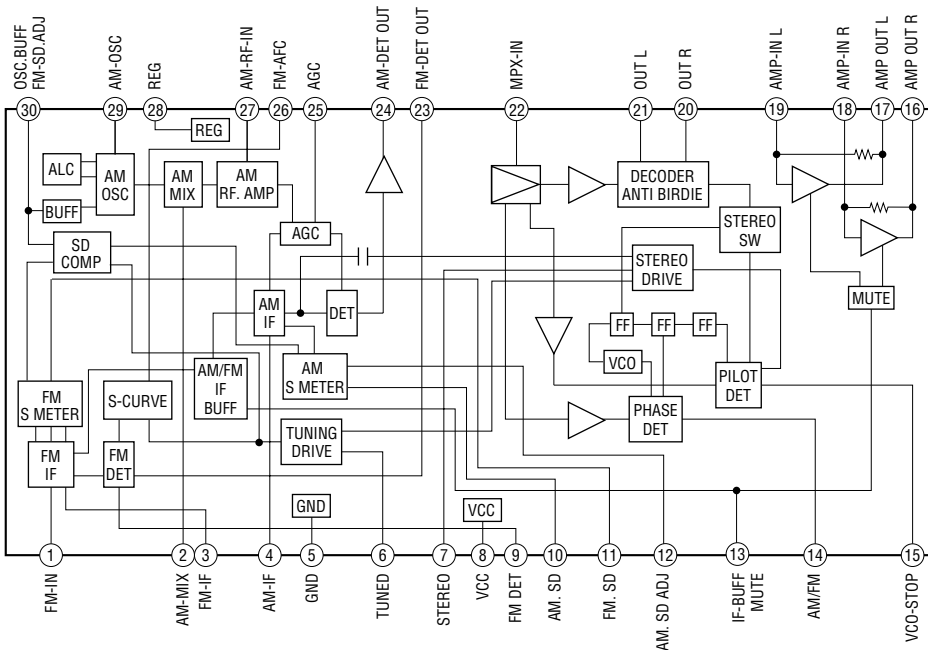
## 5-20. IC BLOCK DIAGRAMS

### • Tuner section

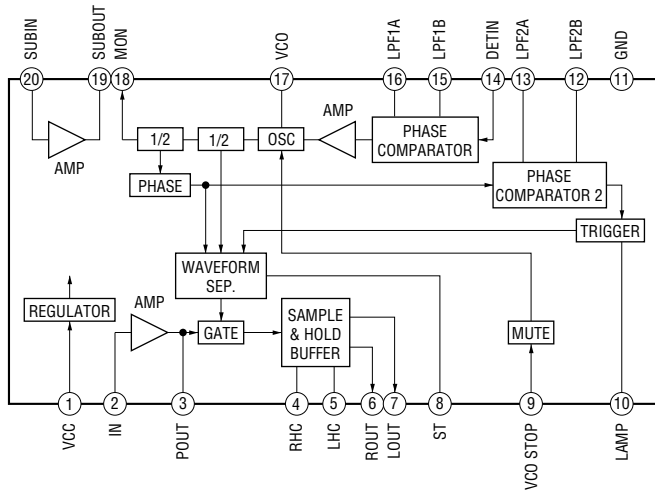
#### IC21 LC72130



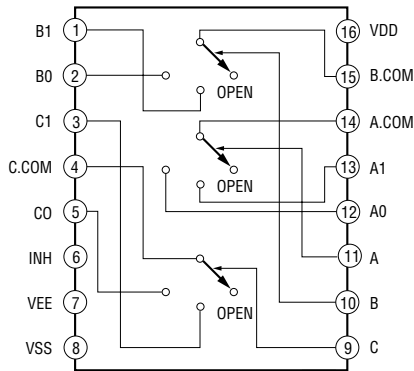
#### IC41 LA1838



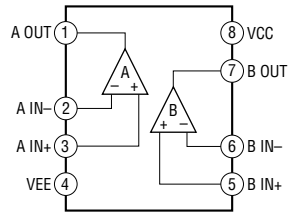
**IC1701 IR3R42**



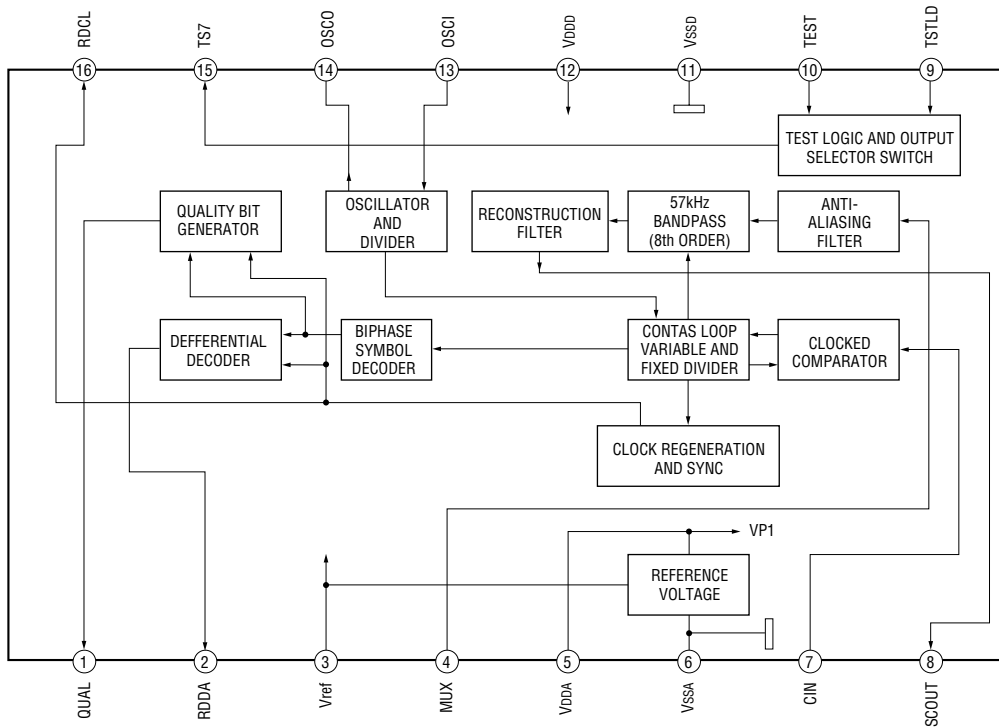
**IC1702 MC14053BCP**



**IC1751 NJM4558D**

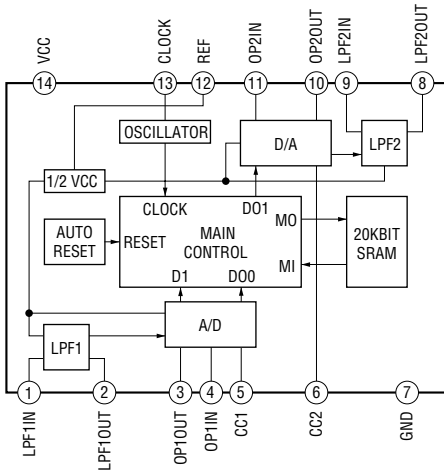


**IC1752 BU1922**

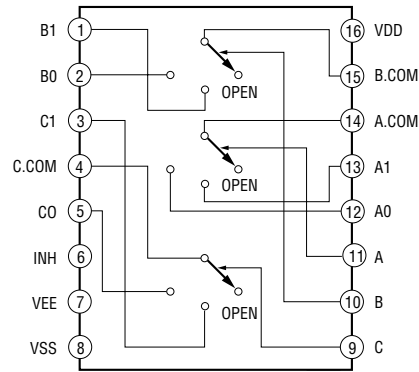


• Main (1/2) section

IC401 M65850P

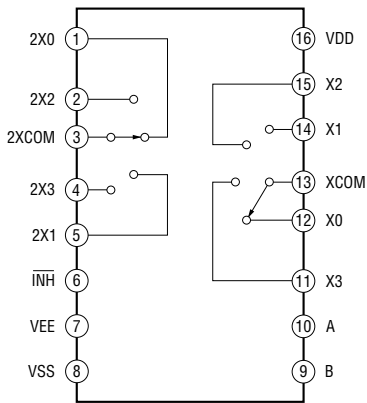


IC402 MC14053BCP

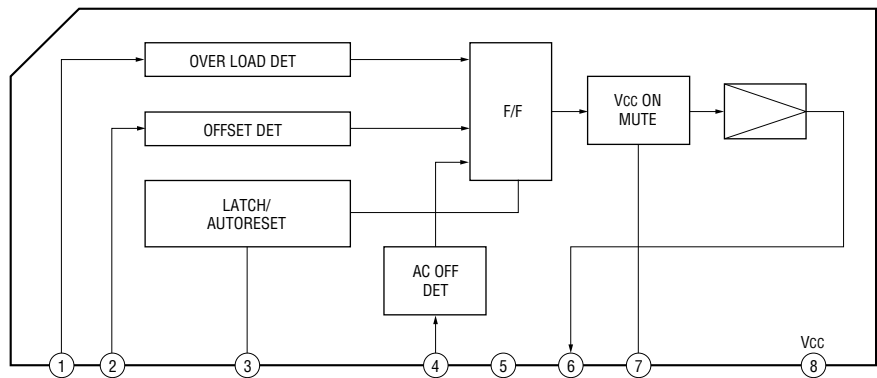


• Main (2/2) section

IC112 MC14052BCP

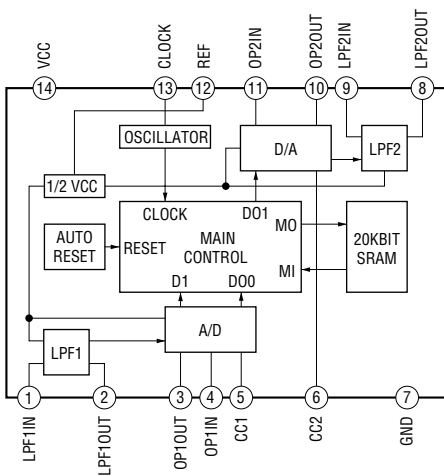


IC851 uPC1237HA



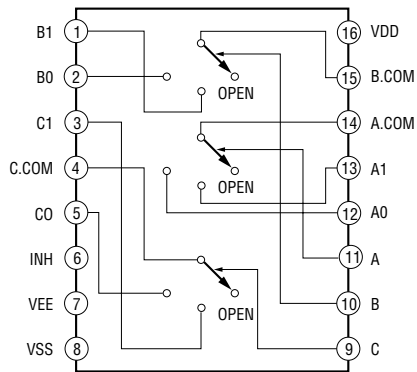
• MIC/ECHO section

IC6002 M65850P

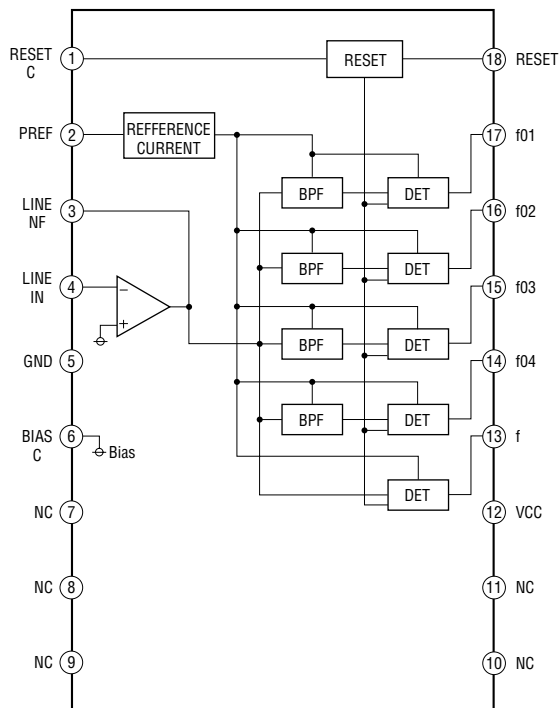


• Display section

IC505 MC14053BCP



IC506 BA3833F



• Panel/Motor section

IC891 LB1641

