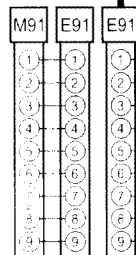
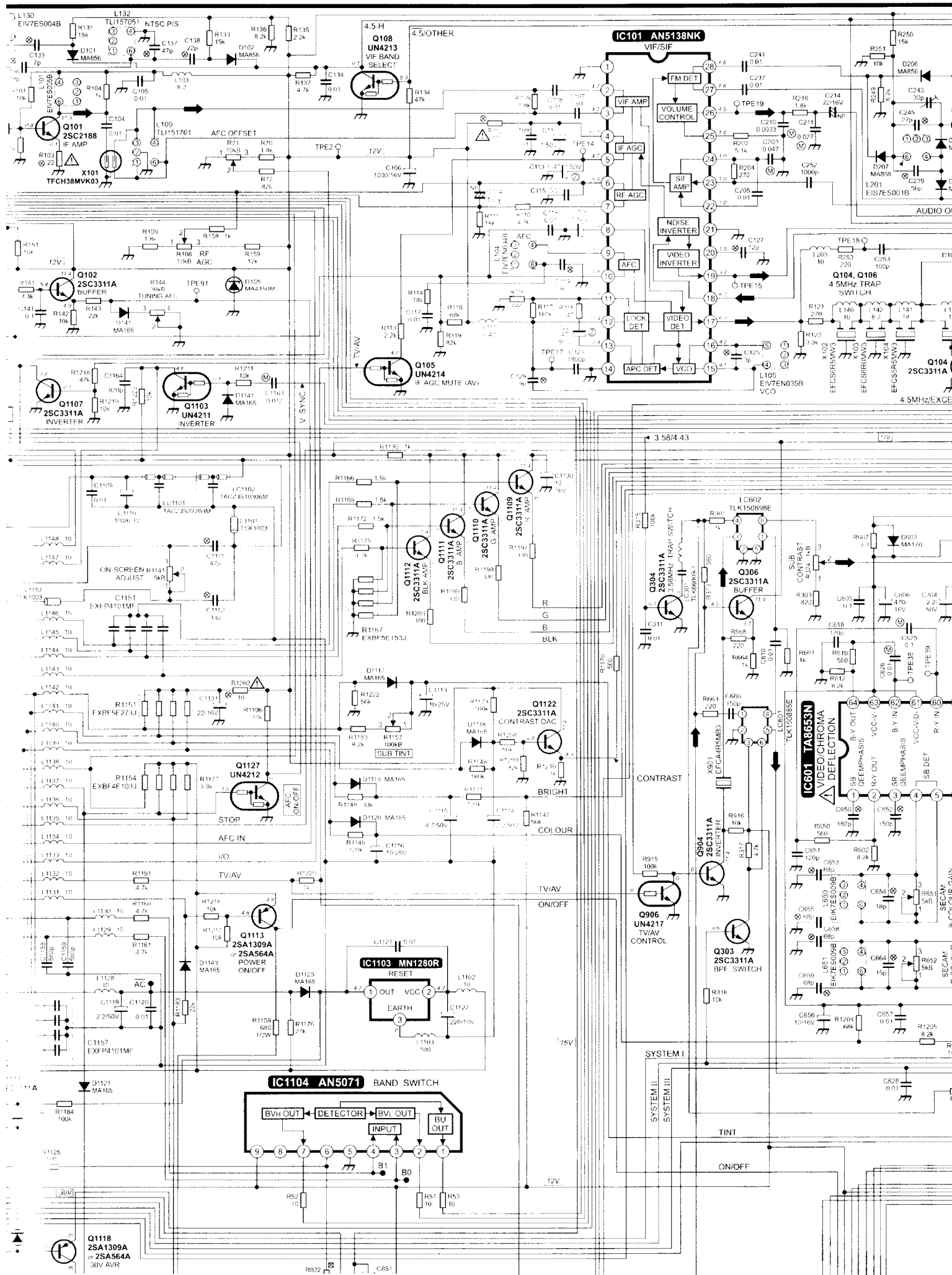
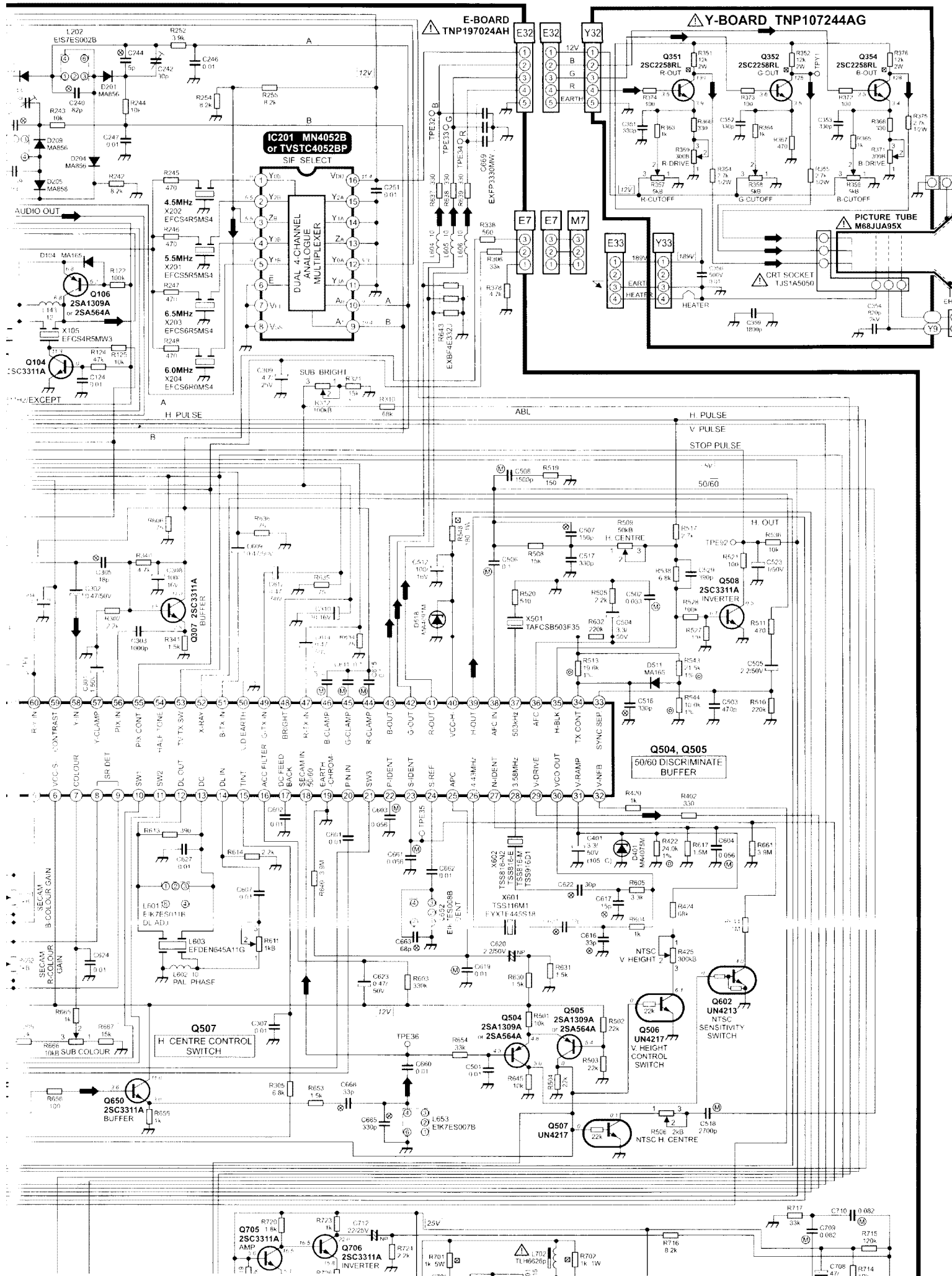


# chassis M15M

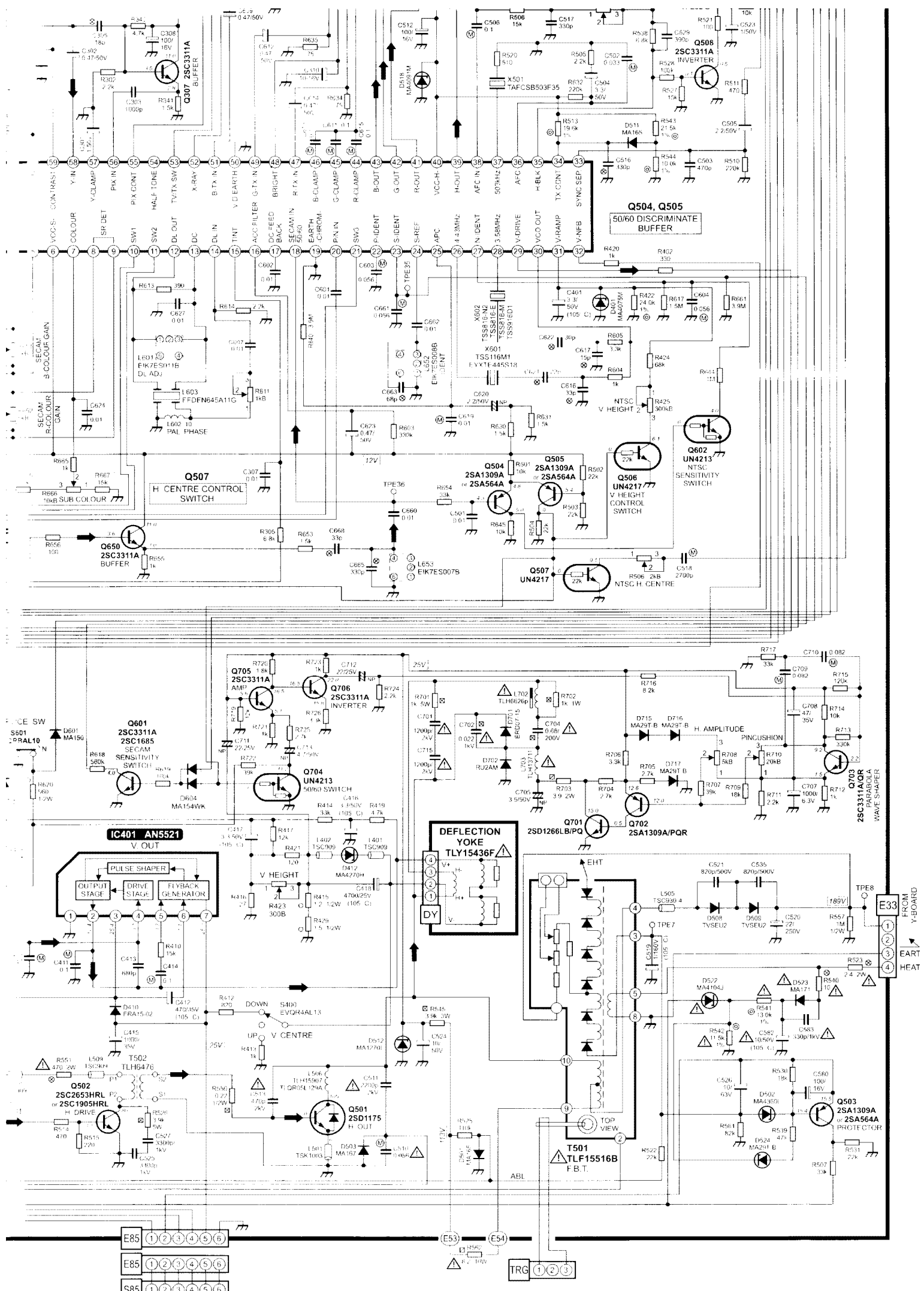
 **AERIAL BOARD**  
TJB1723200













**OTV ch**

Components identified by  mark have special characteristics important for safety

1. **RESISTOR**  
All resistors are carbon 1-W resistor, unless marked as follows:  
Unit of resistance is OHM  $\Omega$  (k=1000, M=1000000).  
☐ Nonflammable    ☒ Metal Oxide  
☐ Solid    ☒ Metal Film  
☒ Wire Wound    ☒ Fuse

2. **CAPACITOR**  
All capacitors are ceramic 50V capacitor, unless marked as follows:  
Unit of capacitance is  $\mu$ F, unless otherwise noted.  
☒ Temperature Compensation    ☒ Electrolytic  
☒ Polyester    ☒ Bipolar  
☒ Metallized Polyester    ☒ Dipped Tantalum  
☒ Polypropylene    ☒ Z-Type

3. **COIL**  
Unit of inductance is  $\mu$ H, unless otherwise noted.  
**TEST POINT**

5 EARTH SYMBOL

 Chassis Earth (Cold)

 Line Earth (Hot)

Voltage is measured by a DC voltmeter  
Conditions of the measurement are the following

|                      |                           |
|----------------------|---------------------------|
| Power Source         | AC 220V 50Hz              |
| Receiving Signal     | Colour Bar signal (RF)    |
| Normalization button | Pushed (Normal condition) |
| Picture control      | Fully clockwise           |
| Sound Volume         | Maximum                   |

7 Number in red circle indicates waveform number

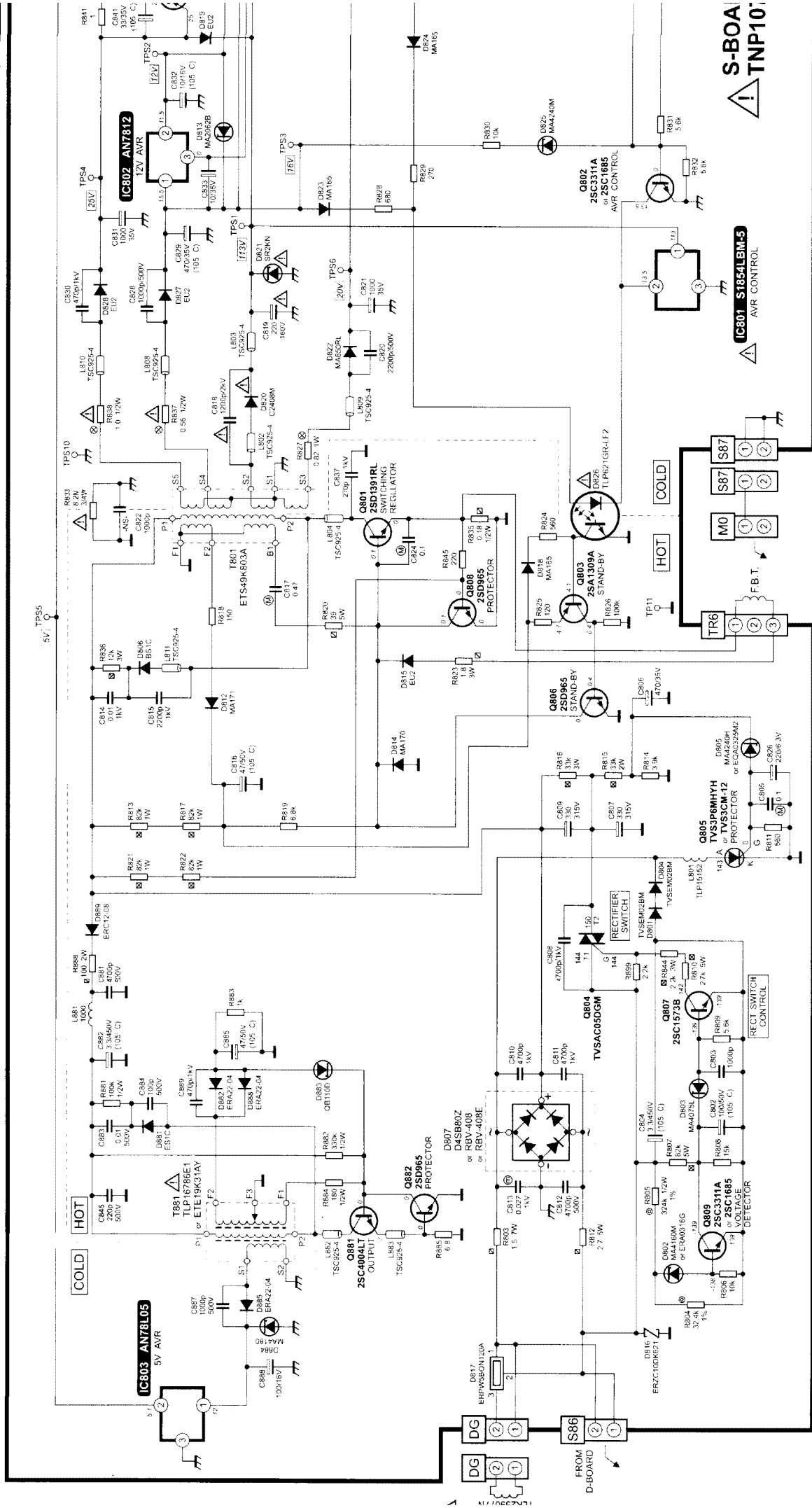
## REMARKS:

## Precautions

- a. Do not connect the hot part of the hot and cold parts at the same time or you may be shocked.
  - b. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
  - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow. Connect the earth of instruments to the earth connection of the circuit being measured.
  - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable:
- MA150 - MA162 (Replacement part)



|                |      |      |     |     |   |      |      |   |
|----------------|------|------|-----|-----|---|------|------|---|
|                | 1    | 2    | 3   | 4   | 5 | 6    | 7    | 8 |
| V <sub>I</sub> | 0    | 11.2 | 2.0 | 0   | 0 | 31.5 | 0    | — |
| V <sub>H</sub> | 0    | 0    | 0   | 2.0 | 0 | 31.5 | 11.2 | — |
| U              | 11.2 | 0    | 0   | 0   | 0 | 31.5 | 0    | — |

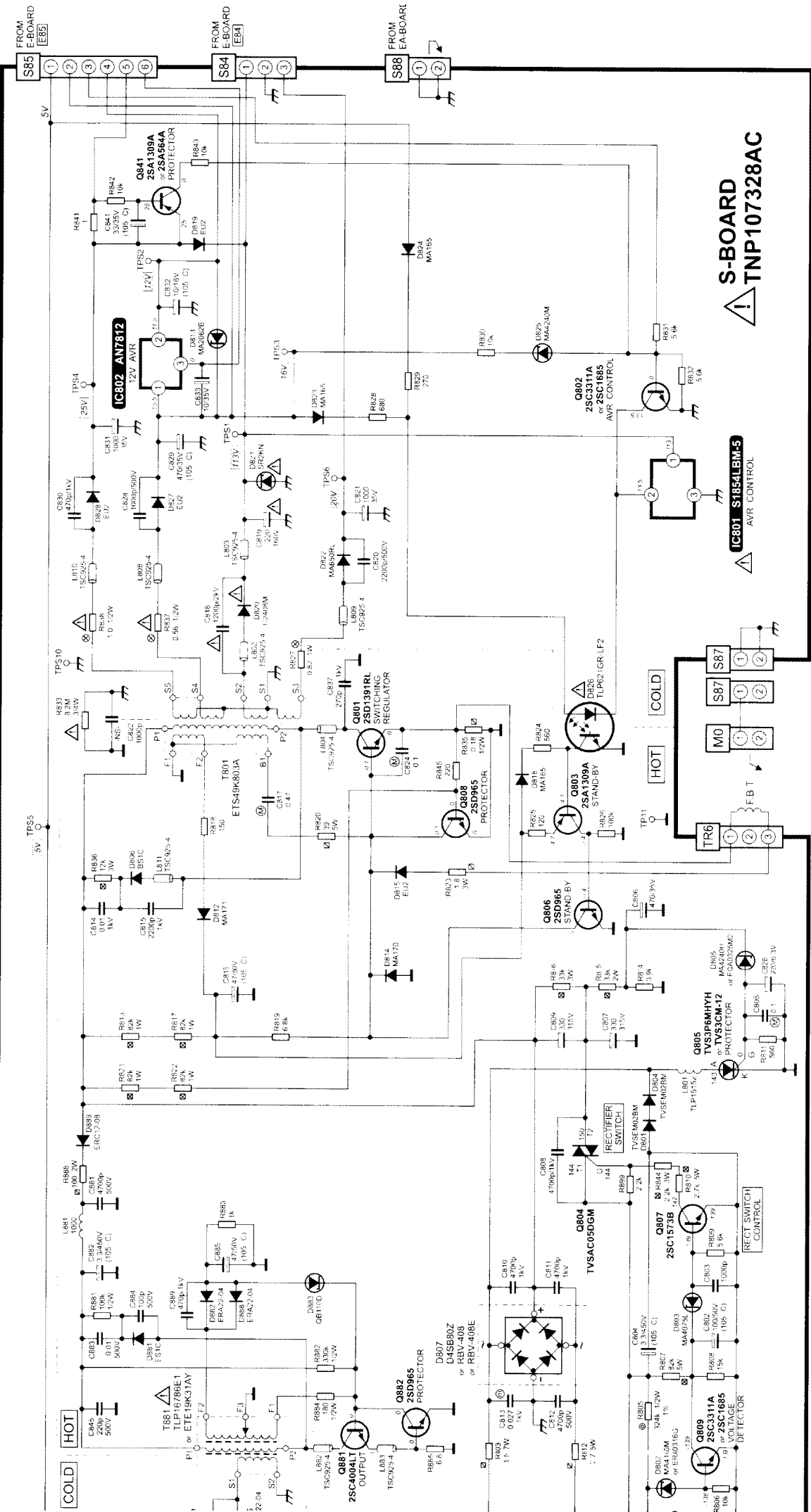


S-BOA  
TNP10



[E-4]

|   |     |     |     |    |    |     |    |     |   |   |   |
|---|-----|-----|-----|----|----|-----|----|-----|---|---|---|
| B | U.1 | 4.1 | U.3 | 33 | 28 | U.1 | 12 | 17  | U | K | 0 |
| E | 0   | 0.5 | 0   | 32 | 32 | 0   | G  | 169 | G | 0 | 0 |



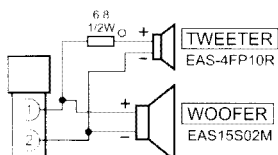


# OTVC Panasonic TC2990EE

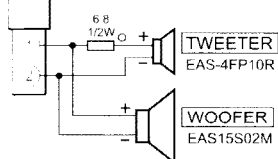
## chassis M15M

(strona 1/2)

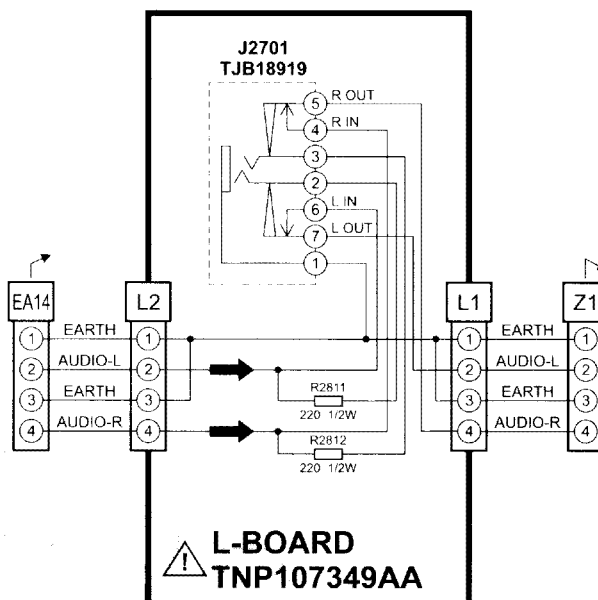
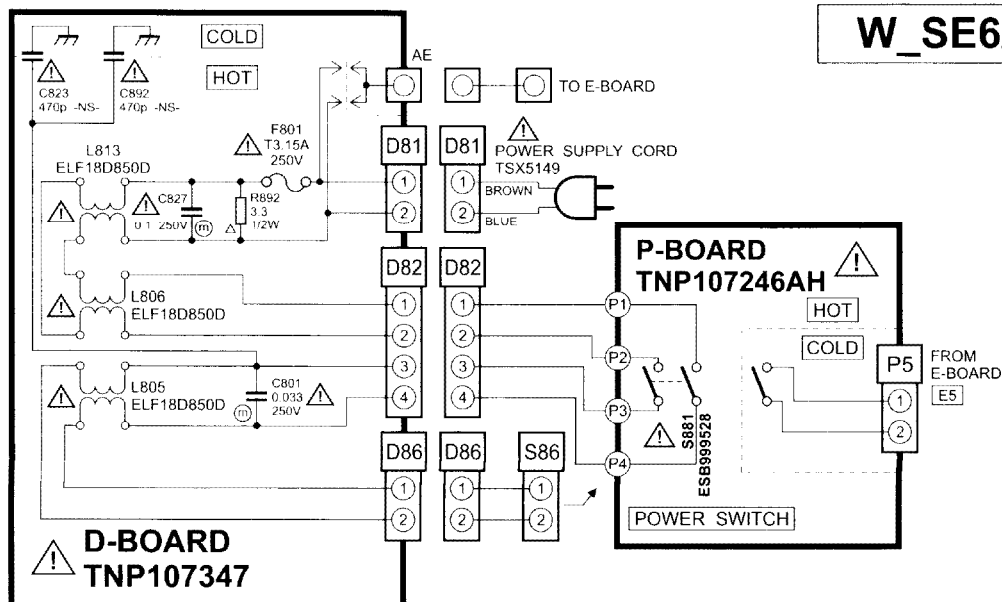
SPEAKER SYSTEM (L)  
EAB-1507LB



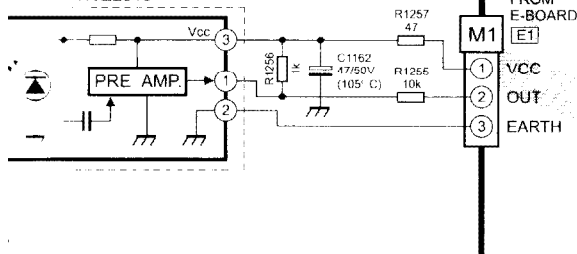
SPEAKER SYSTEM (R)  
EAB-1507RB



W\_SE6/200



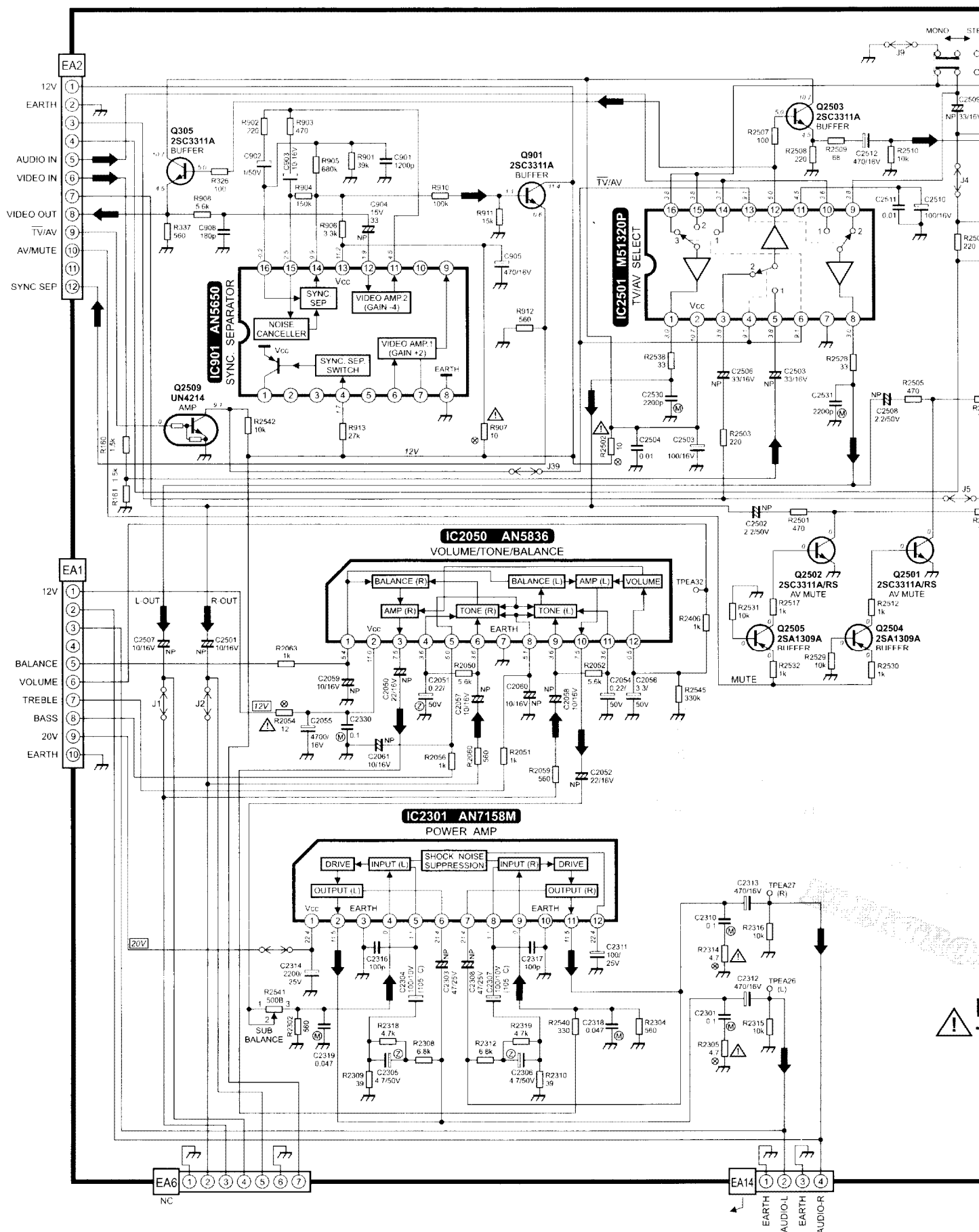
CONTROL RECEIVER  
TNQ2619

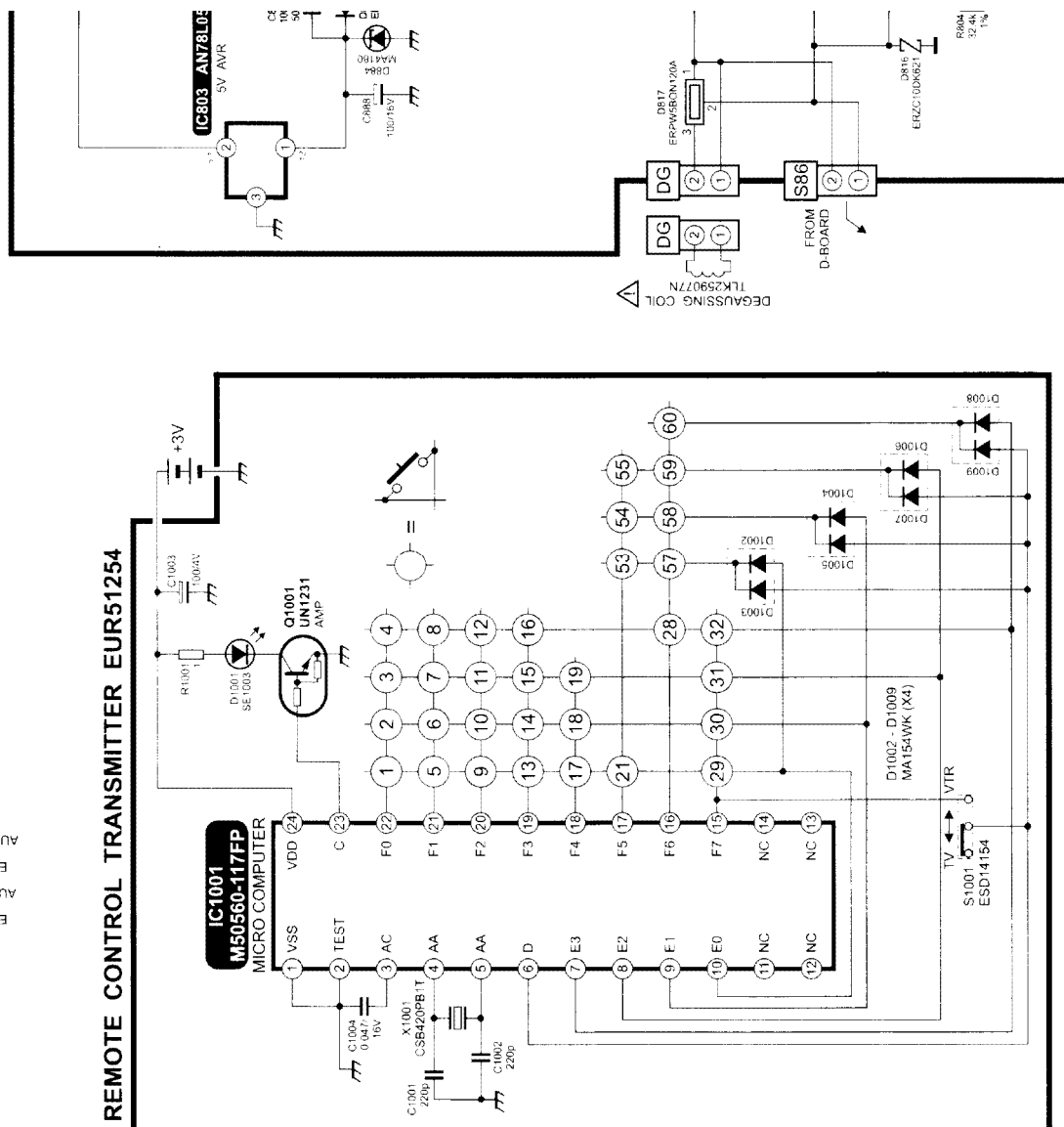
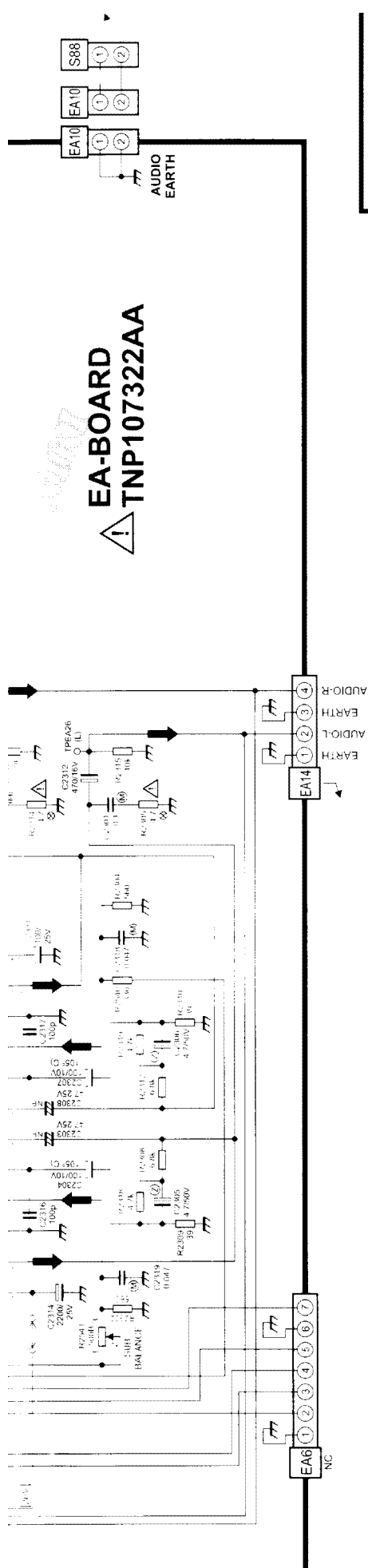


VOLTAGE TABLE (AC 120V)

| Q801 | Q803 | Q806 | Q807 | Q809 | Q881 | Q804 | Q805 |
|------|------|------|------|------|------|------|------|
| 240  | 47   | 0    | 22   | 40   | 240  | 170  | 174  |







## KEY FUNCTION TABLE

| KEY NO. | DATA CODE | FUNCTION TV (CODE-00) | KEY NO. | DATA CODE | FUNCTION TV (CODE-00) | KEY NO. | DATA CODE | FUNCTION VTR (CODE-02) |
|---------|-----------|-----------------------|---------|-----------|-----------------------|---------|-----------|------------------------|
| 1       | 20        | POWER                 | 14      | 24        | -/-                   | 53      | 08        | REC                    |
| 2       | 10        | 1                     | 15      | 19        | 10/0                  | 54      | 06        | PAUSE/STILL            |
| 3       | 11        | 2                     | 16      | 19        | TV/AV                 | 55      | 0C        | STILL ADV              |
| 4       | 12        | 3                     | 17      | 0D        | VOL DN                | 57      | 00        | STOP                   |
| 5       | 22        | PROG UP               | 18      | 0B        | MUTE                  | 58      | 0A        | PLAY                   |
| 6       | 13        | 4                     | 19      | 07        | NORMAL                | 59      | 02        | REW                    |
| 7       | 14        | 5                     | 21      | 2D        | SLEEP                 | 60      | 03        | FF                     |
| 8       | 15        | 6                     | 28      | 26        | RECALL                | —       | —         | —                      |
| 9       | 23        | PROG DN               | 29      | 25        | VIDEO                 | —       | —         | —                      |
| 10      | 16        | 7                     | 30      | 24        | AUDIO                 | —       | —         | —                      |
| 11      | 17        | 8                     | 31      | 2F        | -                     | —       | —         | —                      |
| 12      | 18        | 9                     | 32      | 2E        | +                     | —       | —         | —                      |
| 13      | 01        | VOL UP                | —       | —         | —                     | —       | —         | —                      |