

Service Manual



Colour Television

TX-32DK1L

EURO-4 Chassis

SPECIFICATIONS

Power Source: 220-240V a.c., 50Hz

Power Consumption: 95W

Stand-by Power Consumption: 1.4W

Aerial Impedance: 75Ω unbalanced, Coaxial Type

Receiving System: PAL I, PAL-525/60
M.NTSC
NTSC (AV only)

Receiving Channels: UHF E21-E69
VHF A1-S20

Intermediate Frequency:
Video/Audio

Video 39.5MHz
Audio 33.5MHz
32.95MHz (NICAM)
Colour 35.07MHz

Terminals:

AUDIO MONITOR OUT Audio (RCAX2) 500mV 1kΩ

AV1 IN Video (21 pin) 1V p-p 75Ω
Audio (21 pin) 500mV rms 10kΩ
RGB (21 pin)

AV1 OUT Video (21 pin) 1V p-p 75Ω
Audio (21 pin) 500mV rms 1kΩ

AV2 IN Video (21 pin) 1V p-p 75Ω
Audio (21 pin) 500mV rms 10kΩ
S-Video IN Y: 1V p-p 75Ω
(21-pin) C: 0.3V p-p 75Ω

AV2 OUT Video (21 pin) 1V p-p 75Ω
Audio (21 pin) 500mV rms 1kΩ
Selectable output (21 pin)
AV3 IN S-Video IN Y: 1V p-p 75Ω
(4-pin) C: 0.3V p-p 75Ω
Audio (RCAX2) 500mV rms 10kΩ
Video (RCAX1) 1V p-p 75Ω

High Voltage: 30.5kV ± 1kV

Picture Tube: W76ESF031X13 76cm

Audio Output: Front Left/Right 2 x 15W
(Music Power)

Headphones: 8Ω Impedance
3.5mm

Accessories supplied: Remote Control
2 x R6 (UM3) Batteries
VS-DK1/2 Video Cabinet

Dimensions:

Height: 561mm
Width: 896mm
Depth: 558.5mm

Net weight: 46.5kg

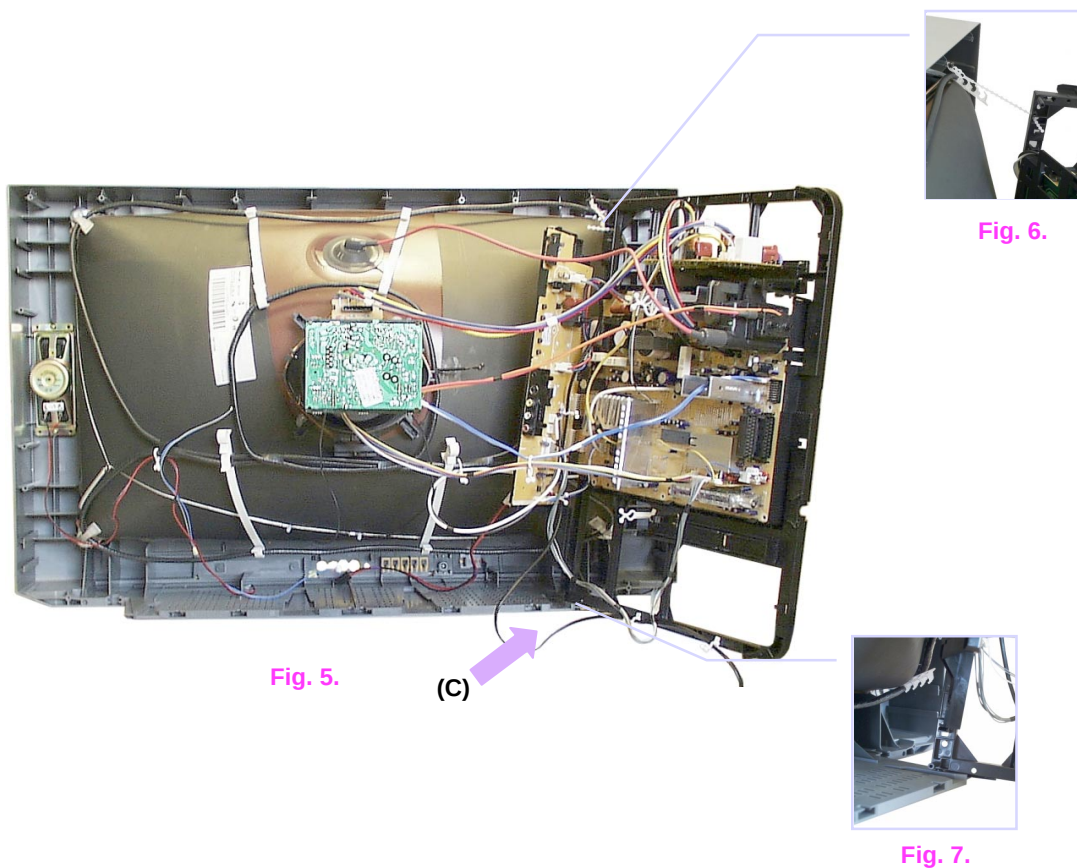
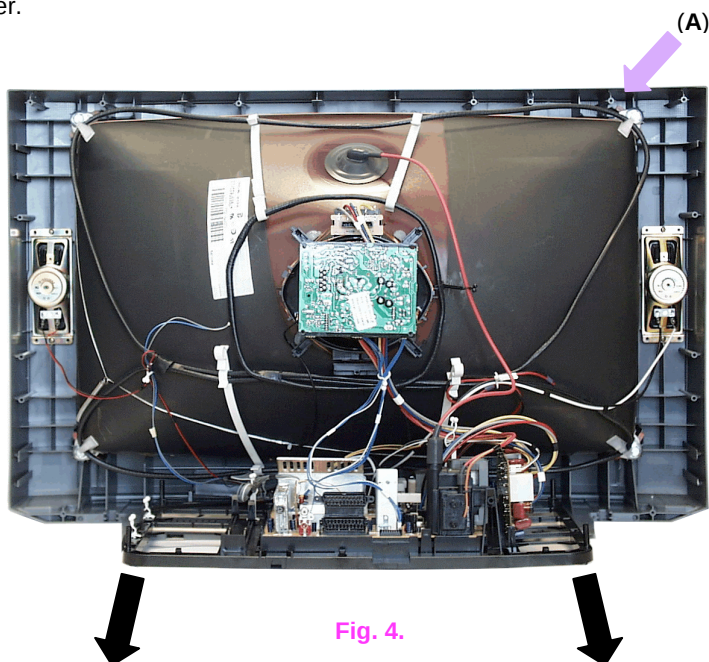
Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the EURO-4 Technical guide.

Panasonic

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove the bead clammer from the mains lead and affix, using back cover screw, into top right-hand cabinet rib **(A)**, shown in **Fig. 4**.
2. Hold and lift the rear of the chassis and gently pull the chassis toward you, as shown in **Fig. 4**.
3. Release the respective wiring clips and rotate the chassis vertically through 90°, anti-clockwise.
4. Locate the base of the chassis frame into location **(C)**, shown in **Fig. 5. / Fig. 7**.
5. Clip the chassis frame onto the bead clammer, shown in **Fig. 5. / Fig. 6**.
6. After servicing replace the bead clammer, and ensure all wiring is returned to its original position before returning the receiver to the customer.



ADJUSTMENT PROCEDURE

Item / Preparation	Adjustments																																																
+B SET-UP 1. Receive a Greyscale signal. 2. Set the controls :- Brightness: Minimum Contrast: Minimum Volume: Minimum	1. Set the +B voltage up as follows:- Adjust R811 so that B2 shows 148V ± 1V. 2. Confirm the following voltages. <table><tr><td>B9</td><td>5</td><td>±</td><td>0.25V</td><td>B10</td><td>5</td><td>±</td><td>0.25V</td></tr><tr><td>B5</td><td>12</td><td>±</td><td>0.5V</td><td>B11</td><td>33</td><td>±</td><td>1.5V</td></tr><tr><td>B4</td><td>15.5</td><td>±</td><td>1V</td><td>B7</td><td>8</td><td>±</td><td>0.5V</td></tr><tr><td>B12</td><td>26</td><td>±</td><td>1V</td><td>B8</td><td>5.5</td><td>±</td><td>0.5V</td></tr><tr><td>B3</td><td>39</td><td>±</td><td>1.5V</td><td>B13</td><td>13</td><td>±</td><td>1V</td></tr><tr><td>B1</td><td>215</td><td>±</td><td>10V</td><td>B14</td><td>-13</td><td>±</td><td>1V</td></tr></table>	B9	5	±	0.25V	B10	5	±	0.25V	B5	12	±	0.5V	B11	33	±	1.5V	B4	15.5	±	1V	B7	8	±	0.5V	B12	26	±	1V	B8	5.5	±	0.5V	B3	39	±	1.5V	B13	13	±	1V	B1	215	±	10V	B14	-13	±	1V
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CUT OFF / Ug2 Test 1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cut off mode.	To adjust Cutoff connect an oscilloscope to the Blue cathode. Press " STR " and adjust "cutoff" value using the " Yellow " and " Blue " buttons until the black level is 160V ± 5V press " STR " to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."																																																

FACTORY SETTINGS

To return customer settings to factory settings and clear owner ID of all information input by the customer, enter Self-Check mode. Press the down (**-/v**) button on the customer controls at the front of the TV set, at the same time pressing the **STATUS** button **[+]** on the remote control. To exit Self Check, switch off the TV set at the power button.

NOTE: Self Check should only be used when refurbishing the TV set and not during normal repair work.

VDP	O.K.	PCB	O.K.
TUN	O.K.	Cab	O.K.
E2	O.K.	Sum	Factory use only
MSP	O.K.		
DPL	-.-		
OPTION 1	00		
OPTION 2	A1		
OPTION 3	02		
OPTION 4	00		
OPTION 5	B1		
OPTION 6	E9		

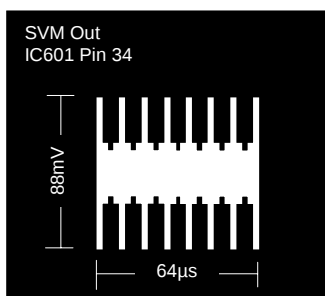
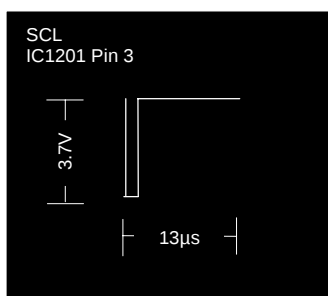
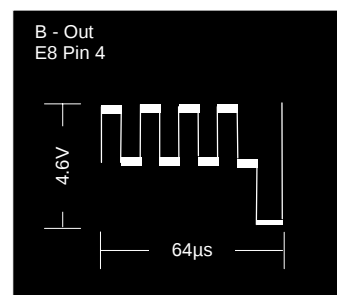
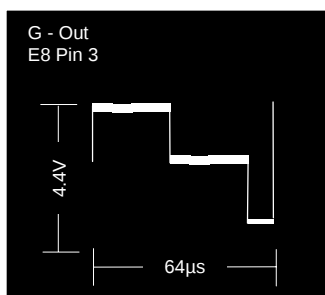
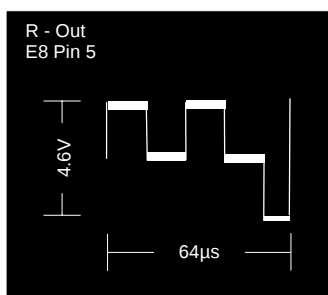
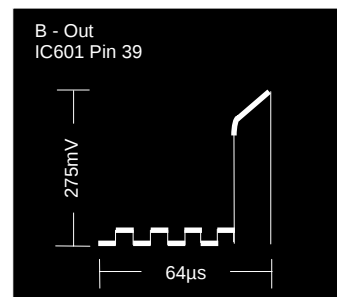
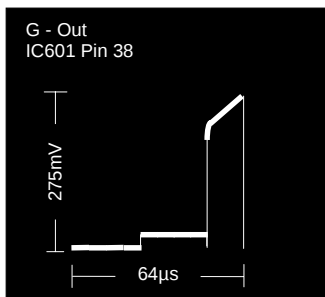
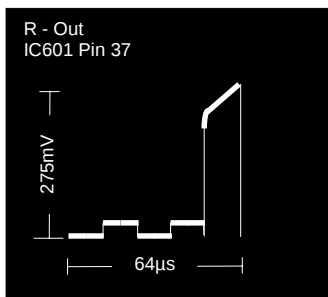
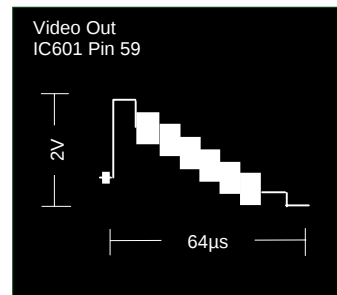
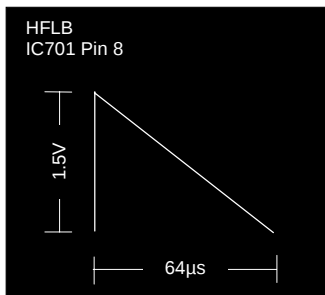
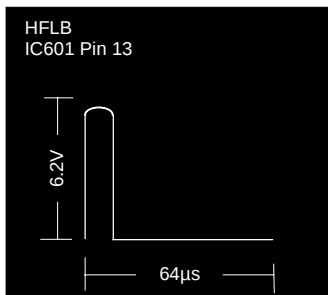
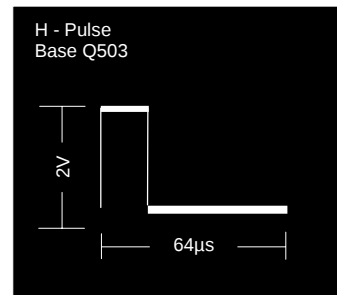
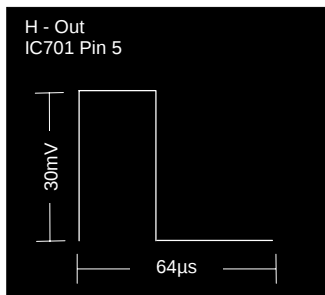
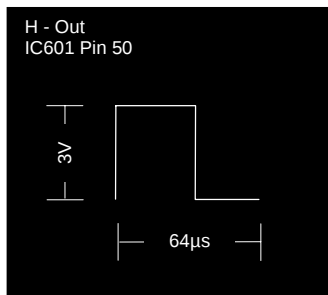
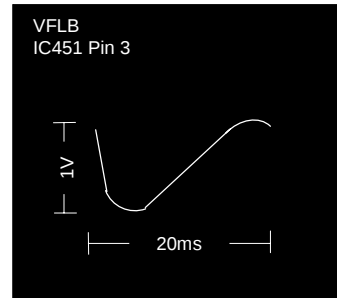
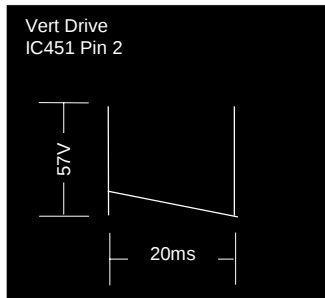
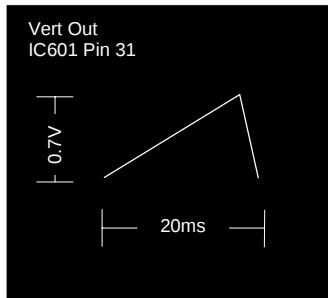
If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.".

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

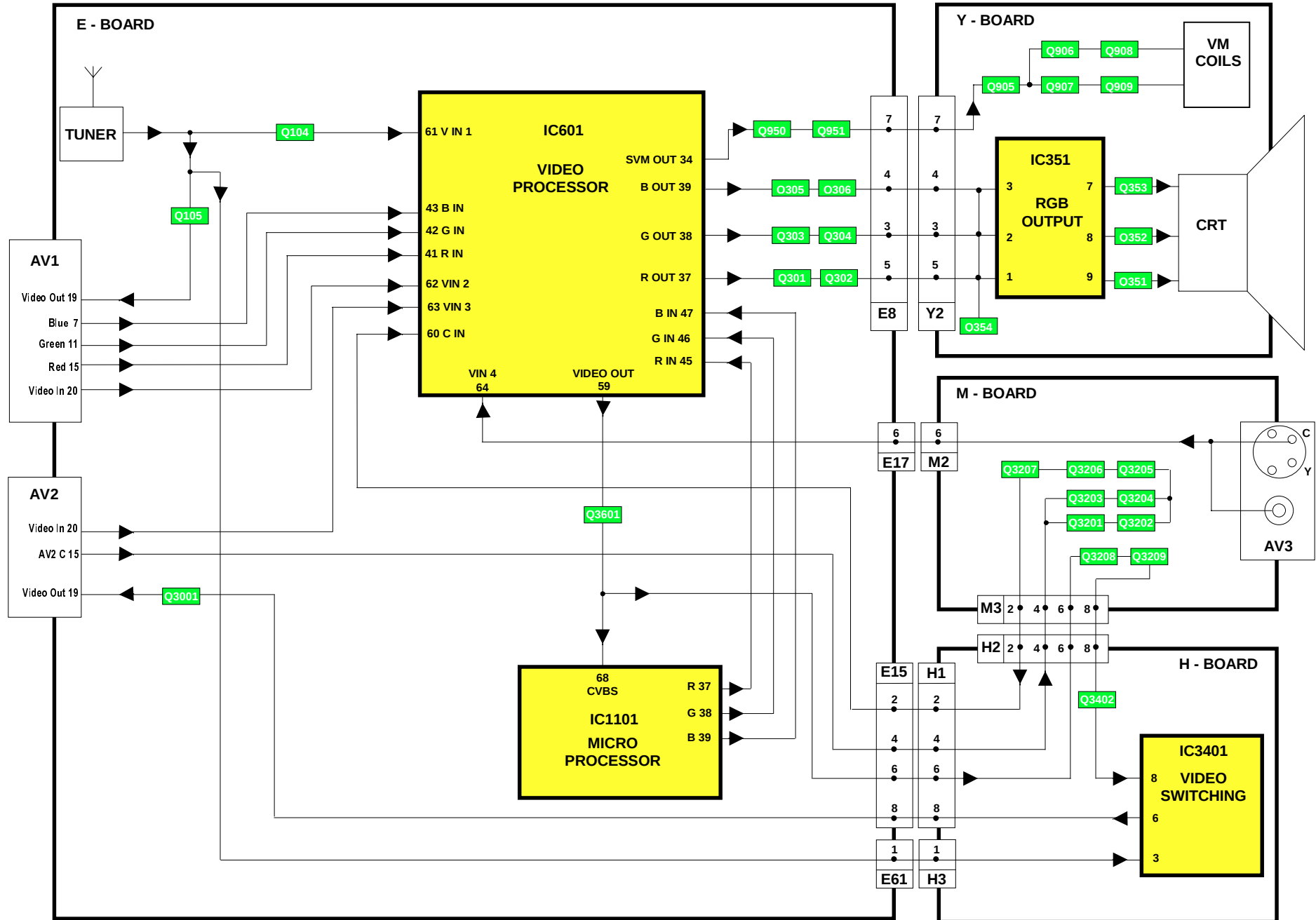
- LUCI** interface kit (**L**inked **U**tility **C**omputer **I**nterface)
 Part number: TZS6EZ002
 This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.
- VICI** (**V**isual **I**nteractive **C**omputer **I**nformation)
 These C.D.'s contain multimedia documentation providing quick access to service information.
 Part No. TZS7EZ006, TZS7EZ005 & TZS8EZ001
 - Service Manuals
 - Instruction Books
 - Technical Information
- TASMIN** (**T**echnically **A**dvanced **S**ystem for **M**ultimedia **I**nteractive **N**otes)
 As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

WAVEFORM PATTERN TABLE

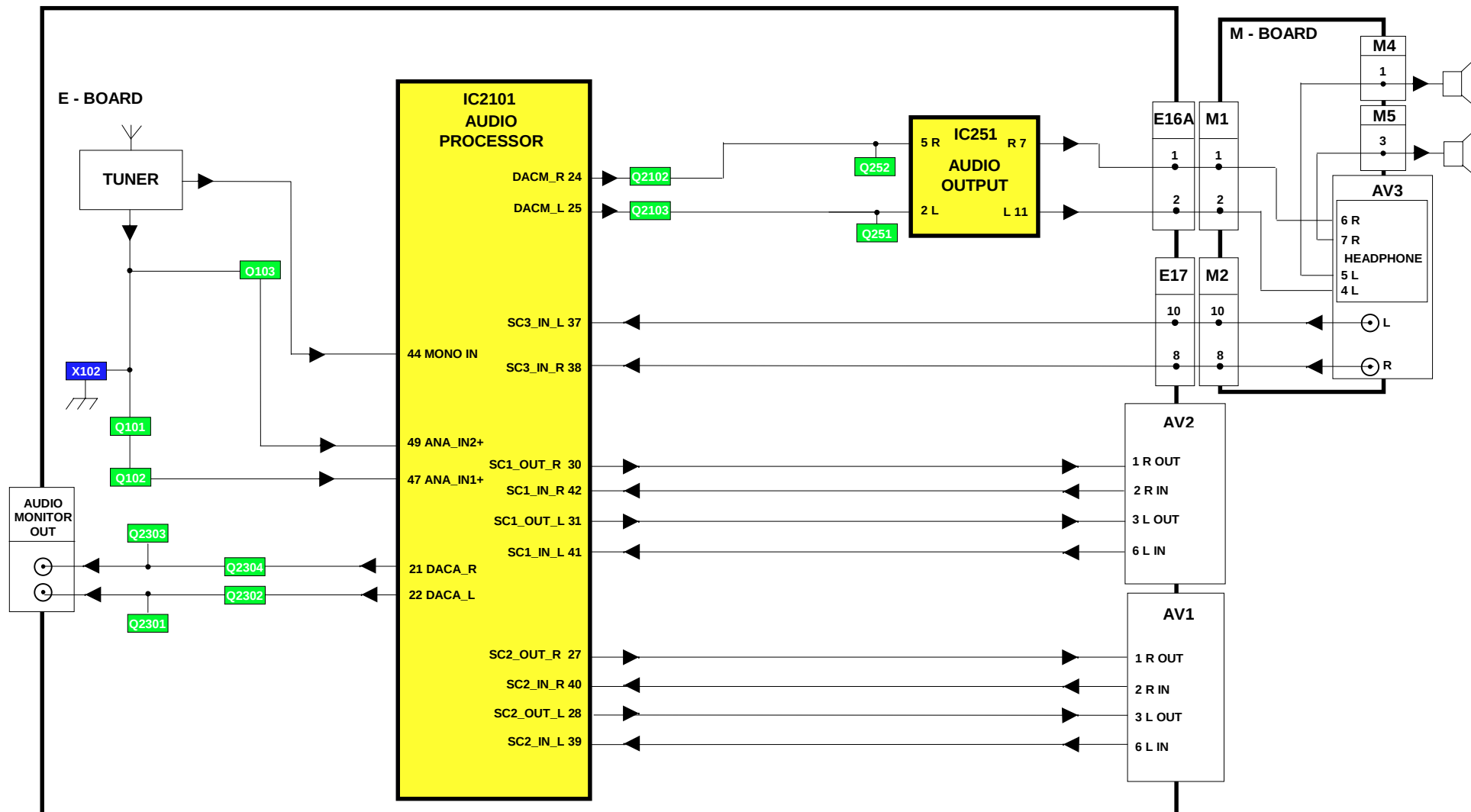


VIDEO BLOCK DIAGRAM

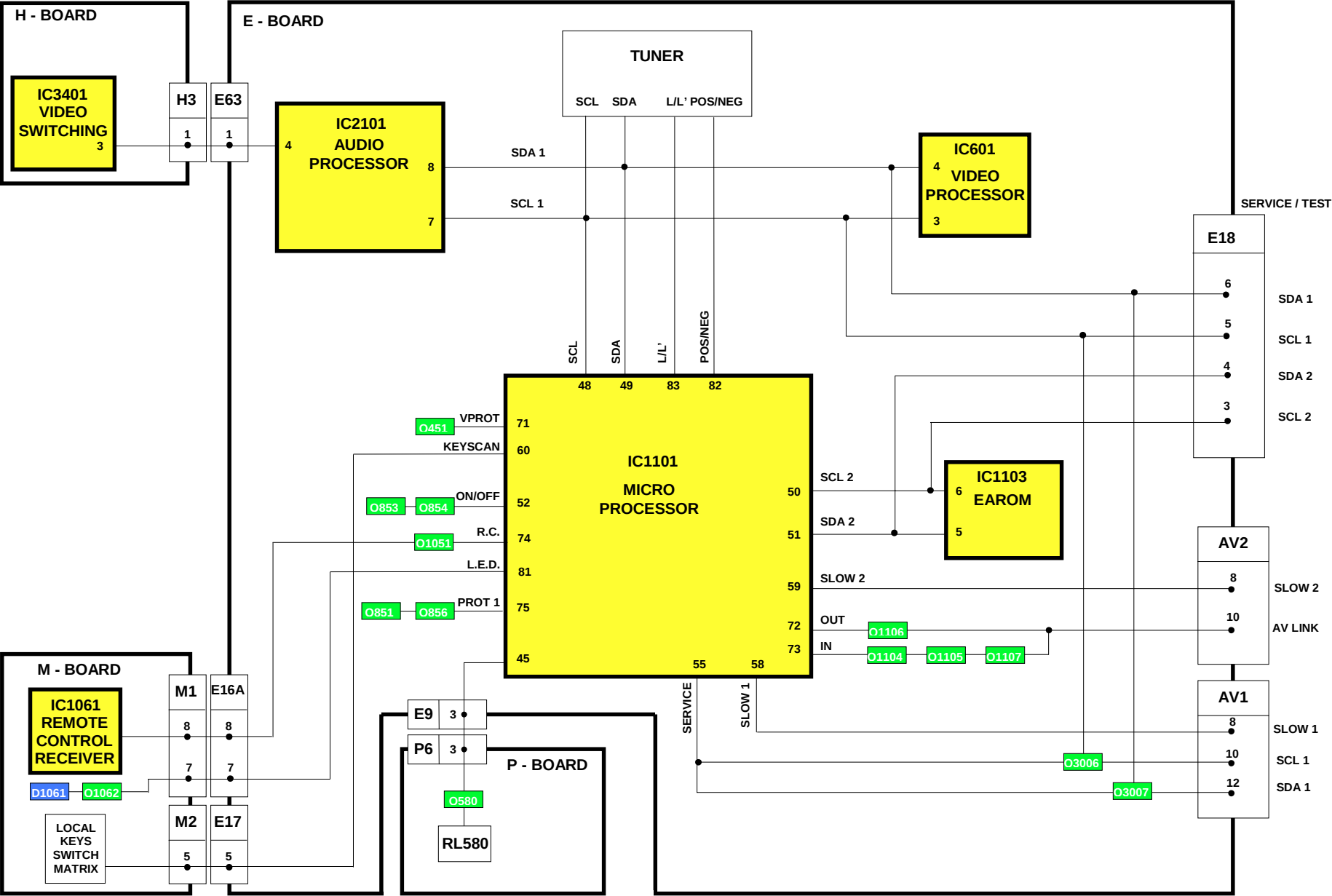
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AUDIO BLOCK DIAGRAM

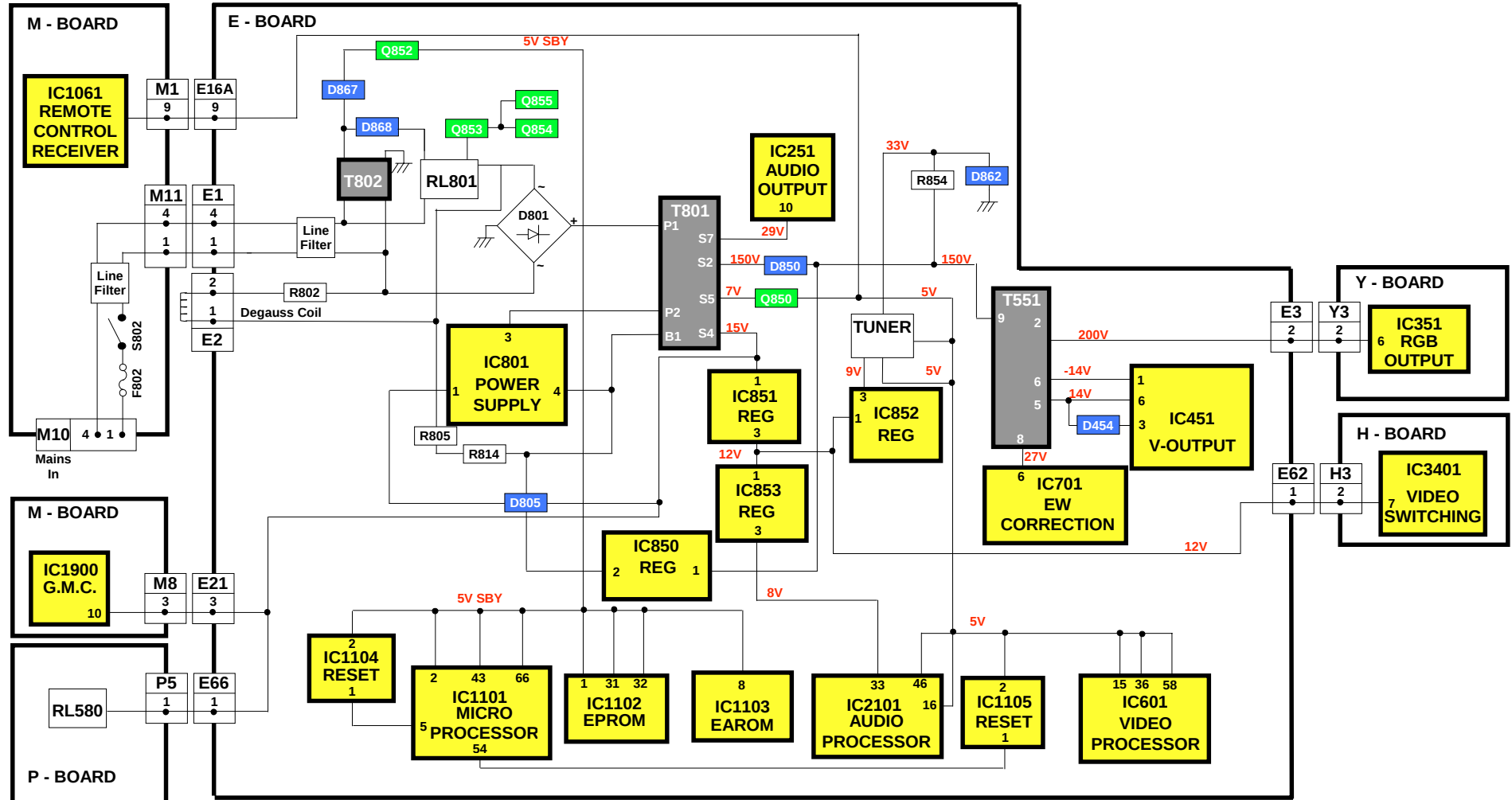


CONTROL BLOCK DIAGRAM

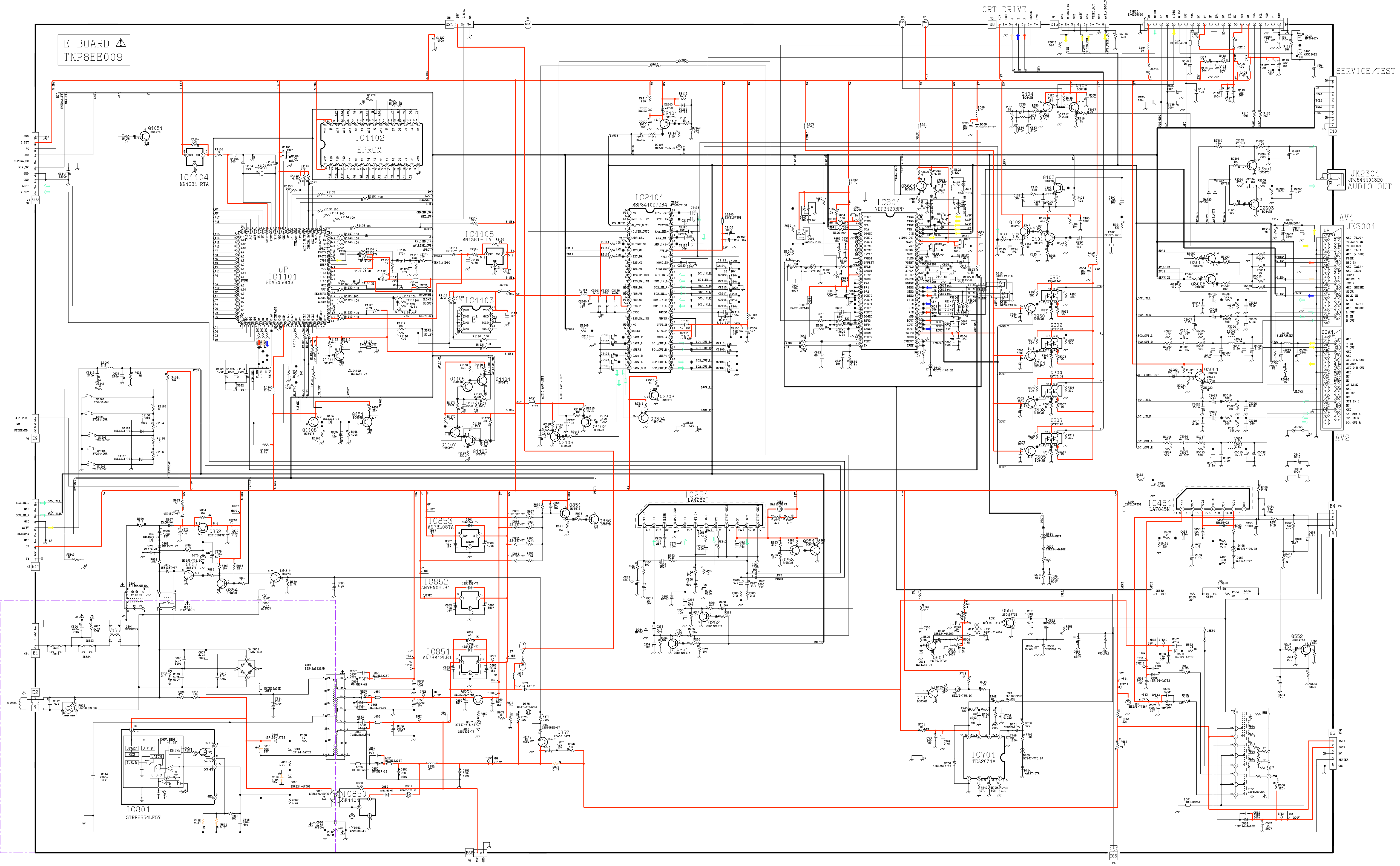


POWER SUPPLY BLOCK DIAGRAM

11



E BOARD
TNP8EE009

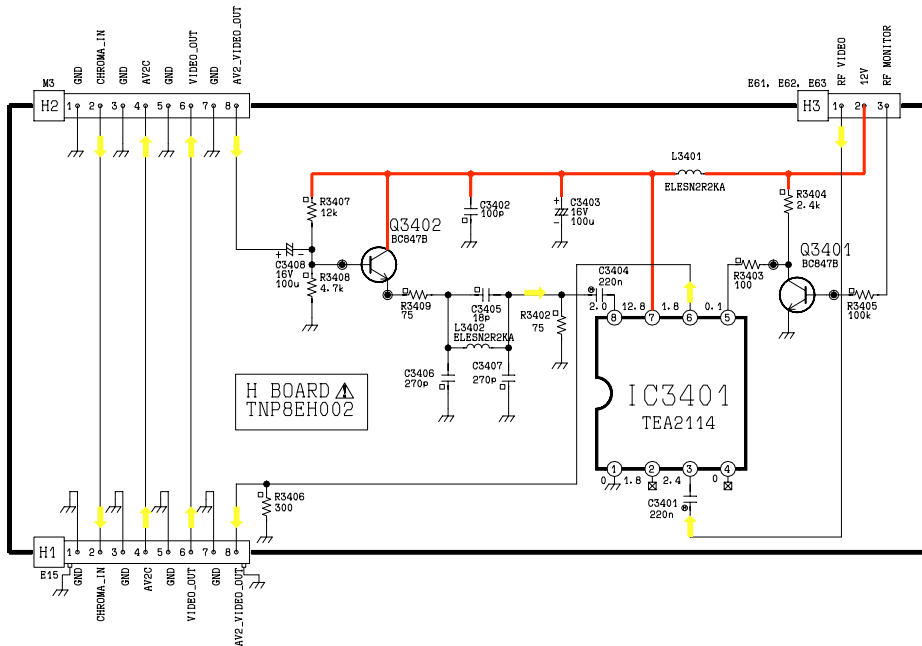


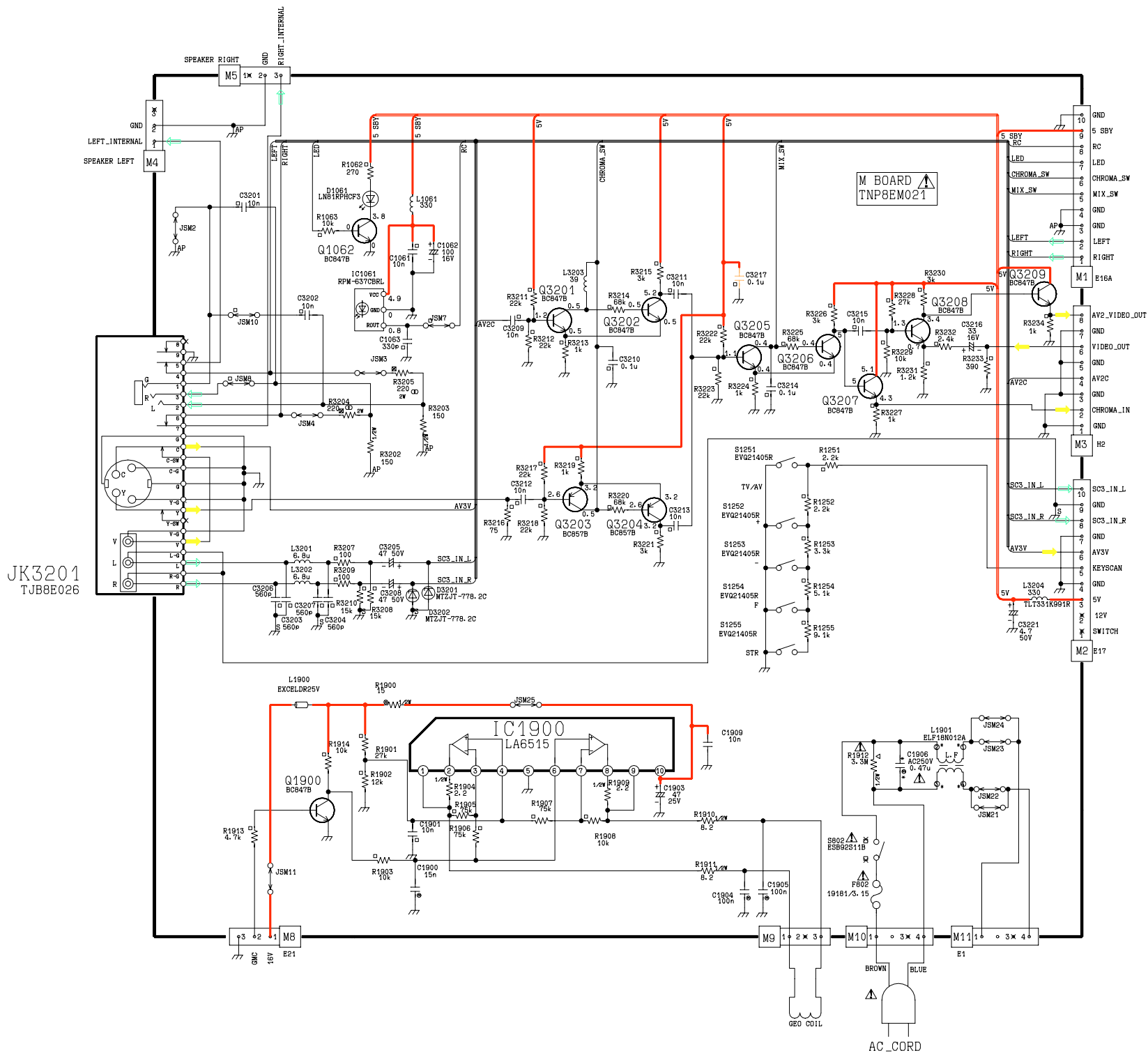
SERVICE / TEST

JK2304
JPJ841101320
AUDIO OUT

AV1
JK3001

AV2





P BOARD
TNP8EP018

