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SERVICE BULLETIN

NO: 10050402

Models: TXSR606/HTR960/HTR667/DTR5.9

NOTE # 1: Before adding capacitor 104 between V.OUT and GND of Q8008, V.OUT and GND of Q8651 and V.OUT and GND of Q8654, make sure that Q8008/Q8651/Q8654 regulators are made by Toshiba. Do not add this capacitor, if regulators Q8008/Q8651/Q8654 are made by ROHM. To identify the maker of Q8008/Q8651/Q8654, read the print on the top surface of the regulator.
For Toshiba: Print will be “48018AF” or “48018BF”
For ROHM: Print will be “BA18BCO” (Please see notes on pages 4, 6 and 7)

Note #2: This modification should be performed on all units of above models, which come in for repair work, irrespective of whether the problem is on HDMI board or not.

Symptoms: No HDMI picture or picture noise or strange colors in picture.
Video firmware version is displayed as ???????
Changing resolution or turning unit on/off, resumes video output.
Measured power voltages (3.3V and 1.8V) may be low.

Cause: Electric capacitors at output of three pin regulators on side B of HDMI pcb (bottom of HDMI pcb) deteriorate due to heat of power supply section. This results in three pin regulator output oscillations, which in turn causes malfunction in video signal processor.
Chip Capacitor C8096 (100uF/4V) on Side B deteriorates by heat from below
This causes Q8008 (1.8V) to oscillate and not to output 1.8V properly.
Sometimes, Q8005 (3.3) also oscillates and does not output 3.3V properly.

Solution:

Measure voltages/waveforms at L8002 (1.8V) and then L8090 (3.3V) on side A (top side of HDMI board)

If the voltages/waveforms not right, then change following components, as shown below.

If the voltages/waveforms are correct, then problem may be some other section.

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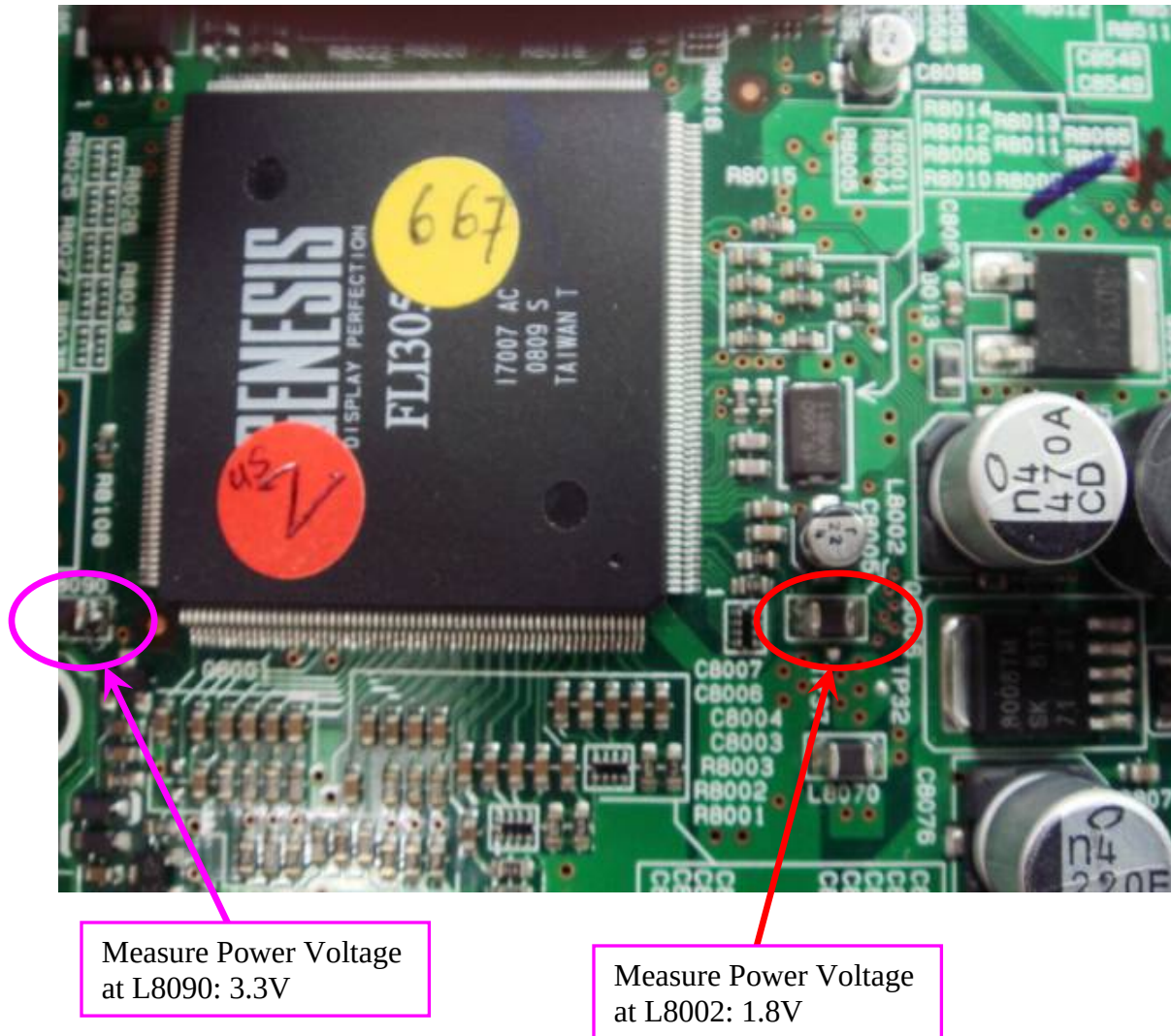
Circuit No.	Part name	Description	Part No.	Remarks
(C8079)	TF C	ECQ-V50V-104J	374721044T	Circuit reference # is not available. Add this part (See following pages)
(C8081)	TF C	ECQ-V50V-104J	374721044T	Circuit reference# is not available. Add this part (See following pages)
(C****)	TF C	ECQ-V50V-104J	374721044T	Circuit reference# is not available. Add this part (See following pages)
(C****)	TF C	ECQ-V50V-104J	374721044T	Circuit reference# is not available. Add this part (See following pages)
C8072	CHIP LECT C	CEWX4V-100M	3981G1017R2	100uF/4V
C8096	CHIP LECT C	CEWX4V-100M	3981G1017R2	100uF/4V
C8602	CHIP LECT C	CEWX4V-100M	3981G1017R2	100uF/4V
C8609	CHIP LECT C	CEWX4V-100M	3981G1017R2	100uF/4V

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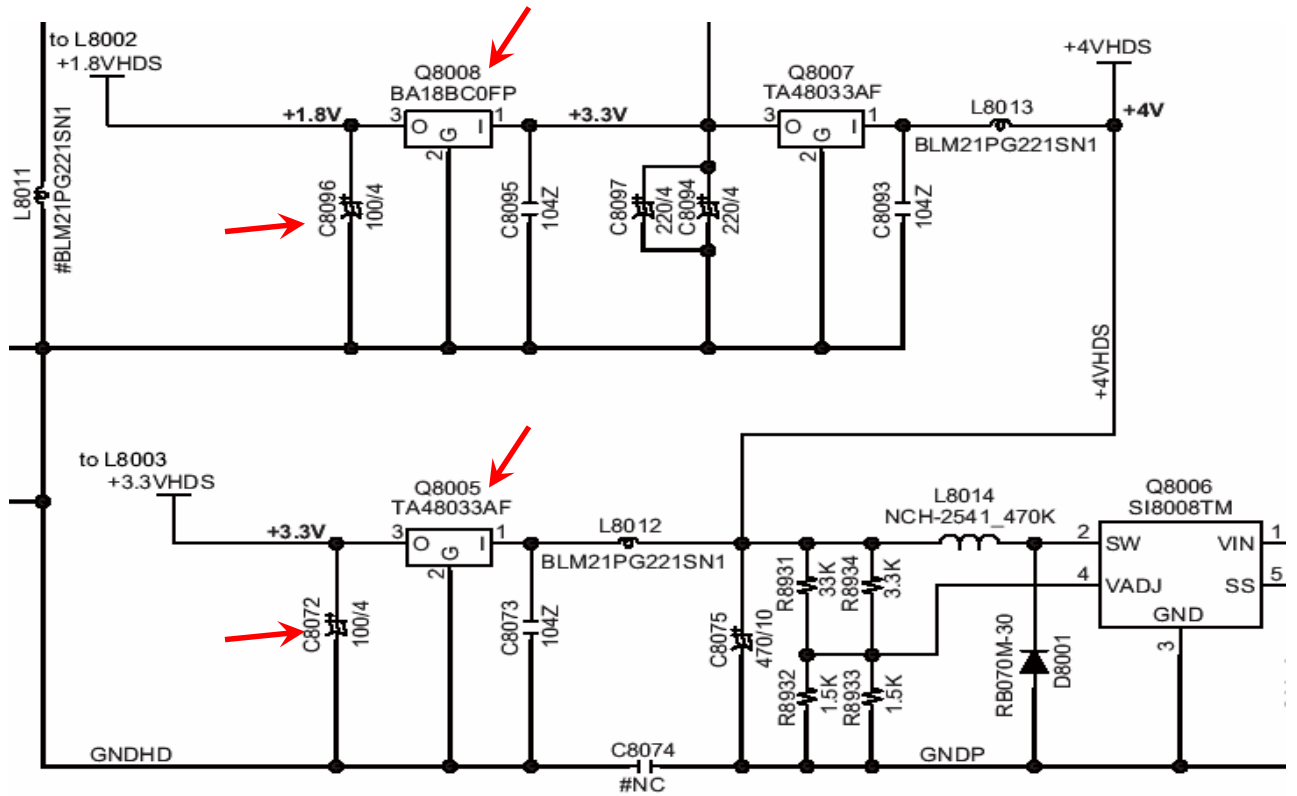
- | | | |
|---------------|--------------|-----------|
| Q8008 | Toshiba make | ROHM Make |
| Add Capacitor | Yes | No |

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2. Replace Electric capacitor C8072 (100uF/4V) with a new one



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Additional measure: No video output for 1080p resolution. The supply voltage for receiver IC oscillates, when 1080p signal is fed at input. Following components needs to be added and changed.

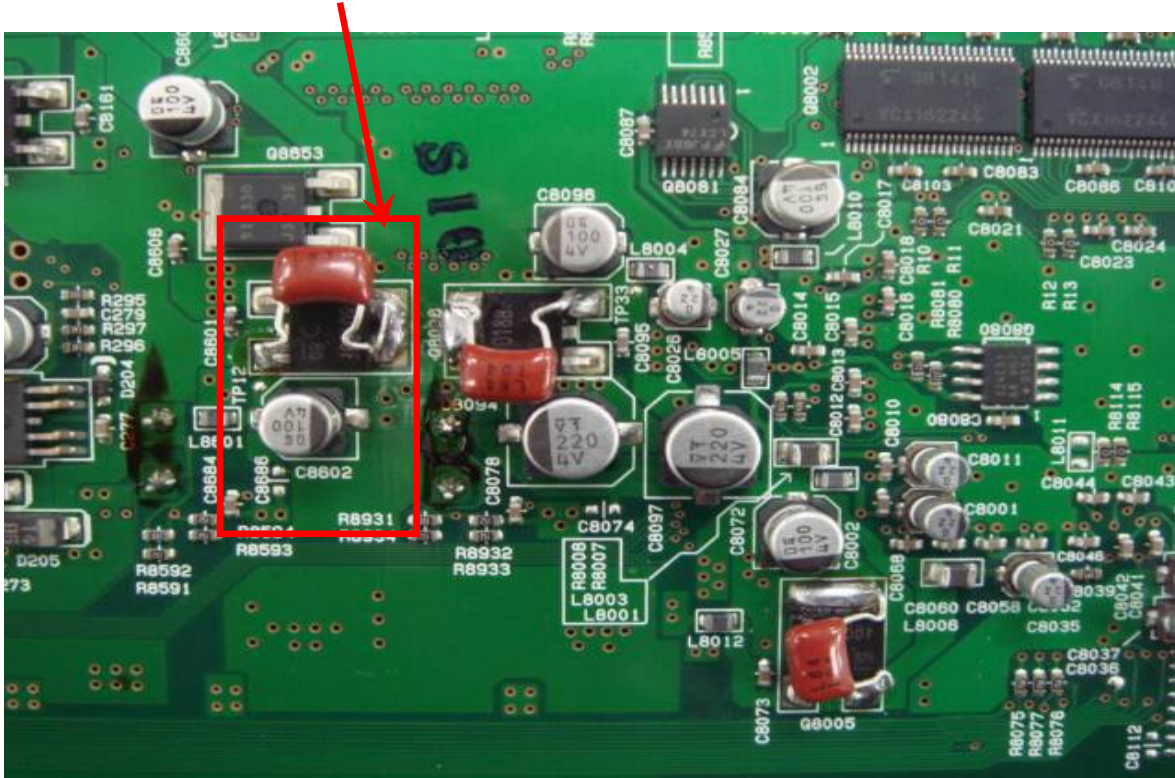
1. Add TF capacitor 104 between V.OUT and GND of Q8651 (1.8V) (as shown below).
Before adding this capacitor, make sure that Q8651 regulator is made by Toshiba. Do not add this capacitor, if the regulator Q8651 is made by ROHM. To identify the maker of Q8651, read the print on the regulator top surface.

For Toshiba: Print will be "48018AF" or "48018BF"

For ROHM: Print will be "BA18BCO"

Q8651	Toshiba make	ROHM Make
Add Capacitor	Yes	No

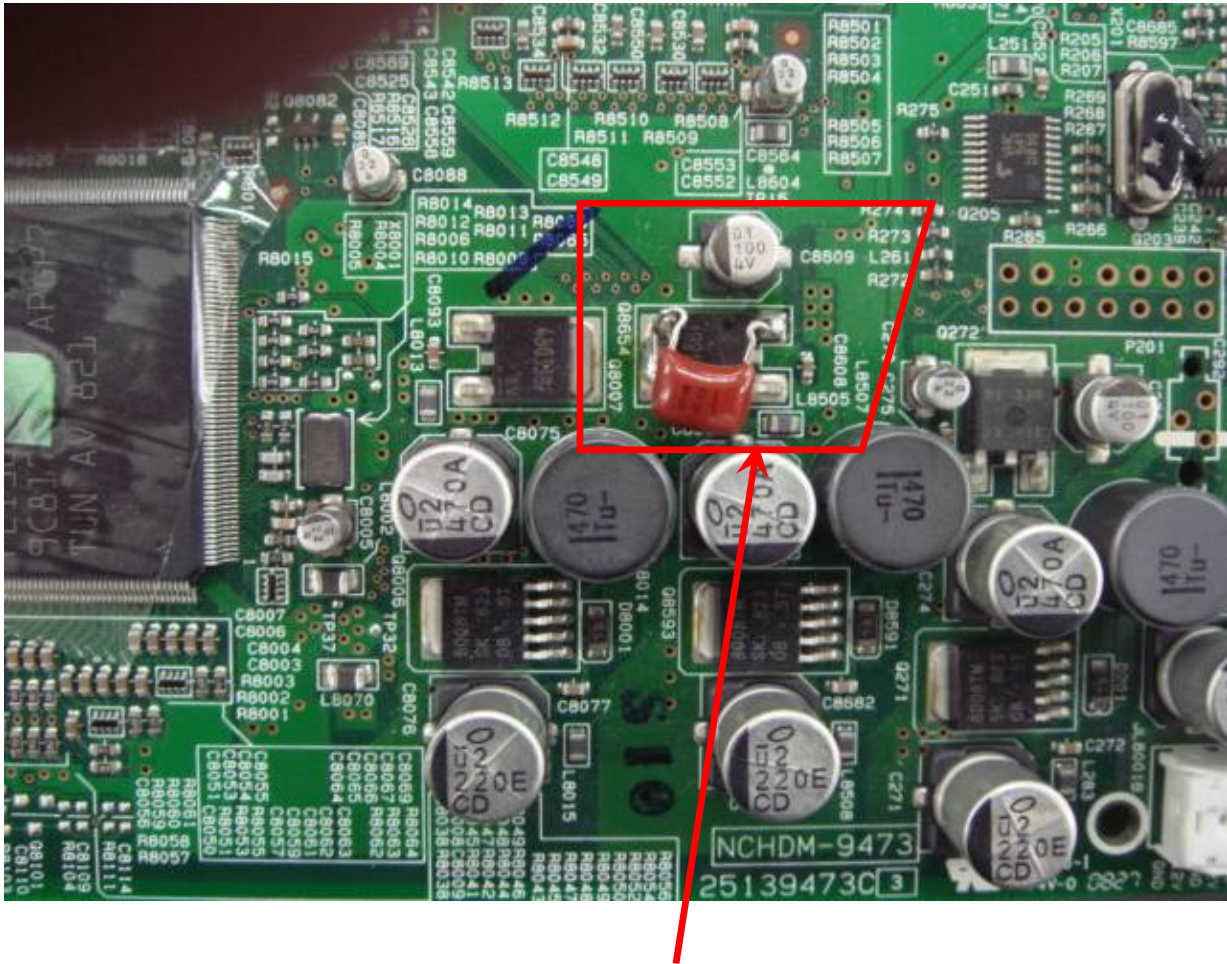
2. Replace Electric capacitor C8602 (100uF/4V) with a new one



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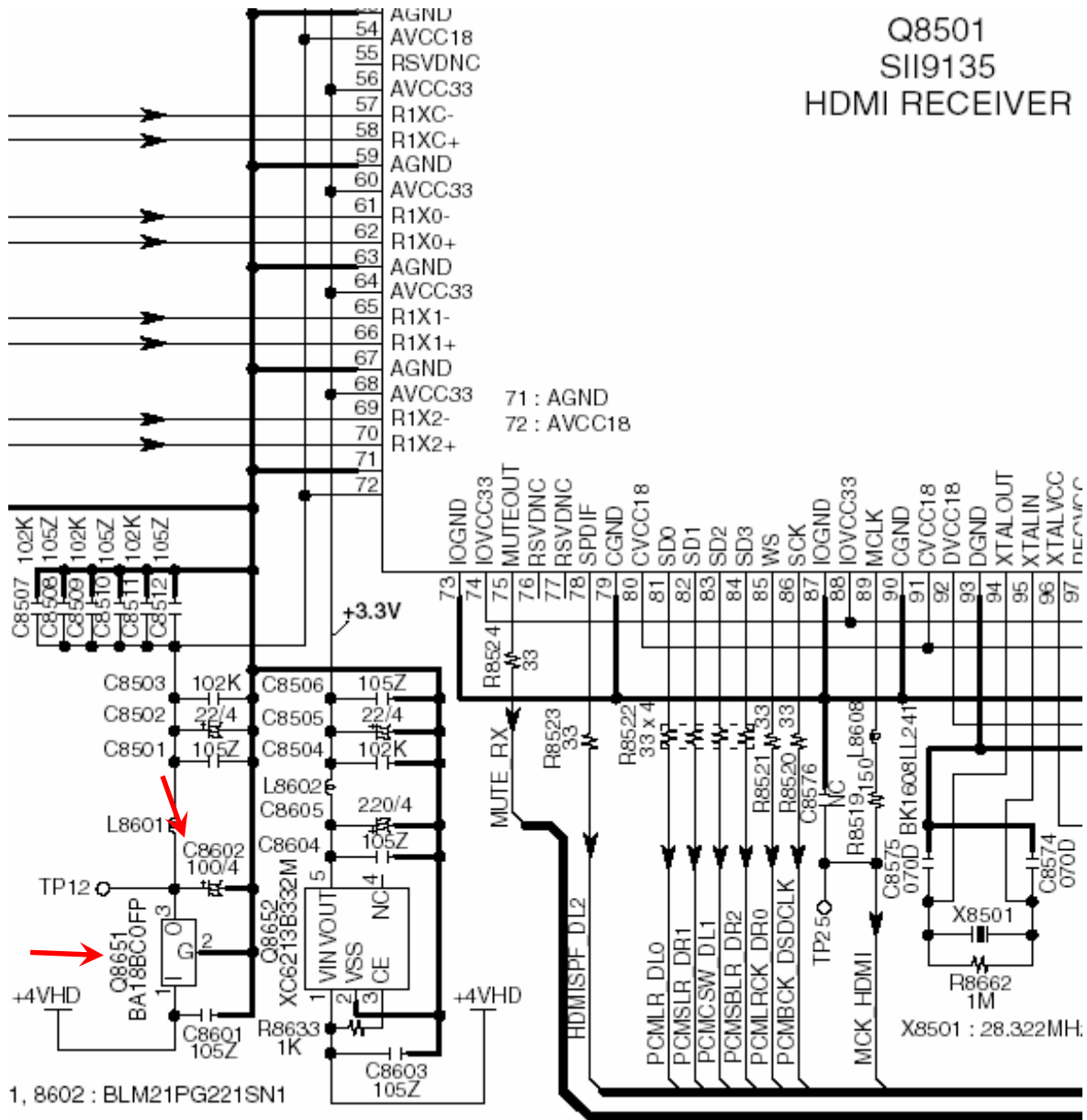


- | | | |
|---------------|--------------|-----------|
| Q8654 | Toshiba make | ROHM Make |
| Add Capacitor | Yes | No |

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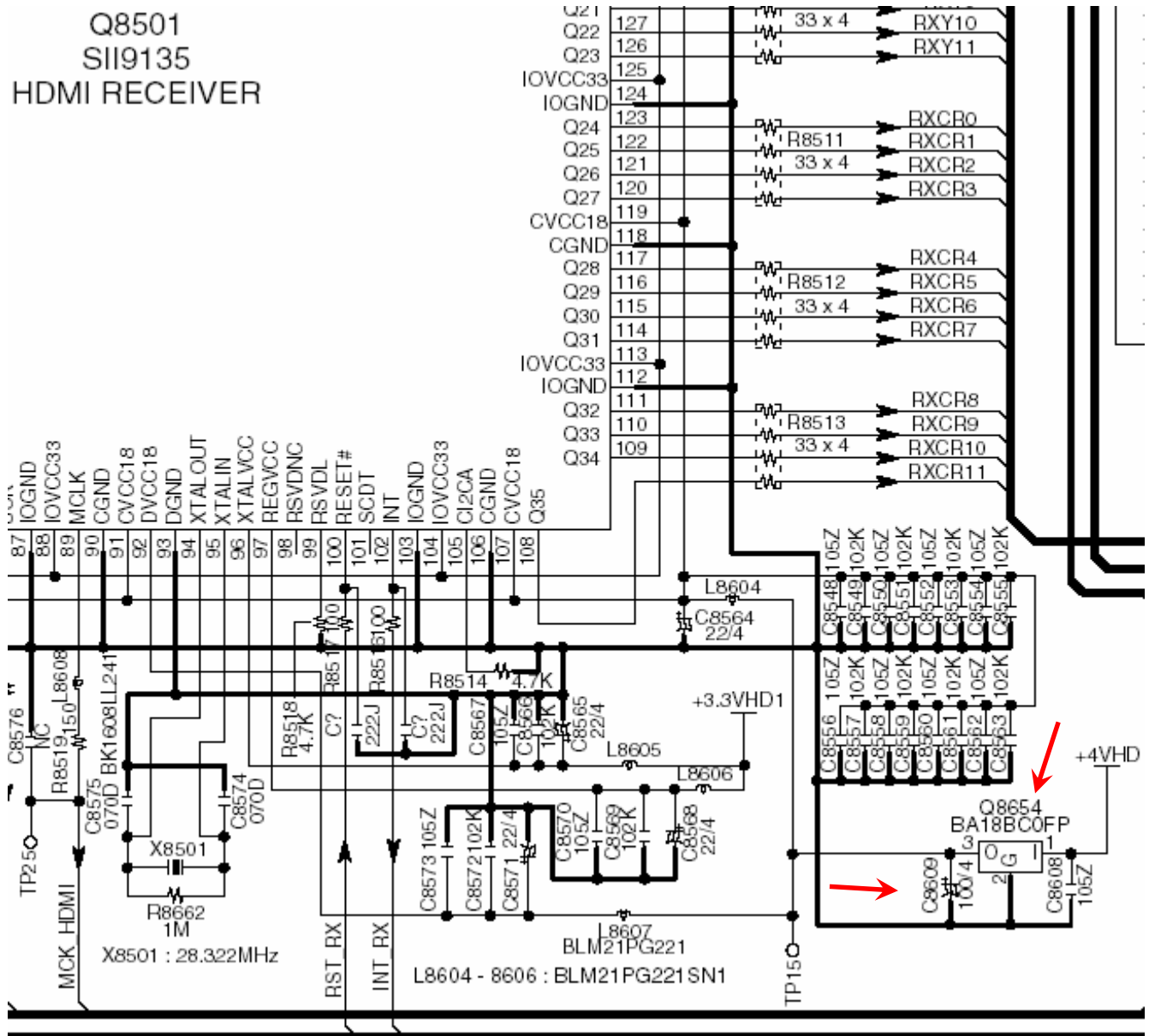
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