

# TECHNICAL INFORMATION

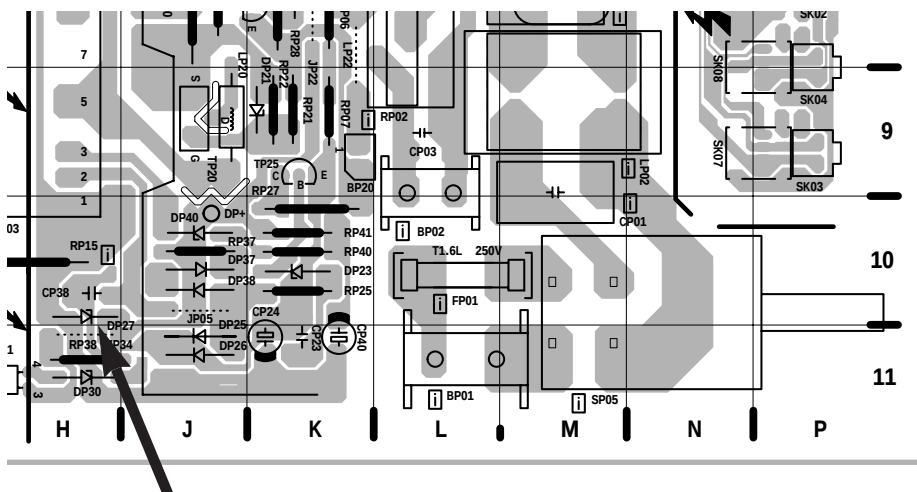
## Finished products / Chassis concerned : TX807

### Symptom/ Problem observed :

Failure of the 24-volt zener diode in position DP27 for no specific reason.

### Solution implemented :

Check and if necessary change the zener diode from a BZX55C24 to a 27-volt device type number BZX55C27 parts code is **60447870**.



Comment : As a preventive measure it is recommend that this diode be replaced when the television is repaired for whatever reason.

**IRIS CODE :** The code mentioned below must be used to report the failure in the warranty sheet. It is proposed to make your report easier and more reliable.

| Condition/<br>Symptom/ | Part Code Number | Qty | Position | Section | Fault<br>Code | Repair<br>Code |
|------------------------|------------------|-----|----------|---------|---------------|----------------|
| 1 1 1 1                | 6 0 4 4 7 8 7 0  | 0 1 | D P 2 7  | P S U   | Q             | A              |

You do not need to write anything in the white boxes

# TECHNICAL INFORMATION

**Finished products / Chassis concerned : TX807**

**Subject : Power supply circuit**

**Symptom/ Problem observed :**

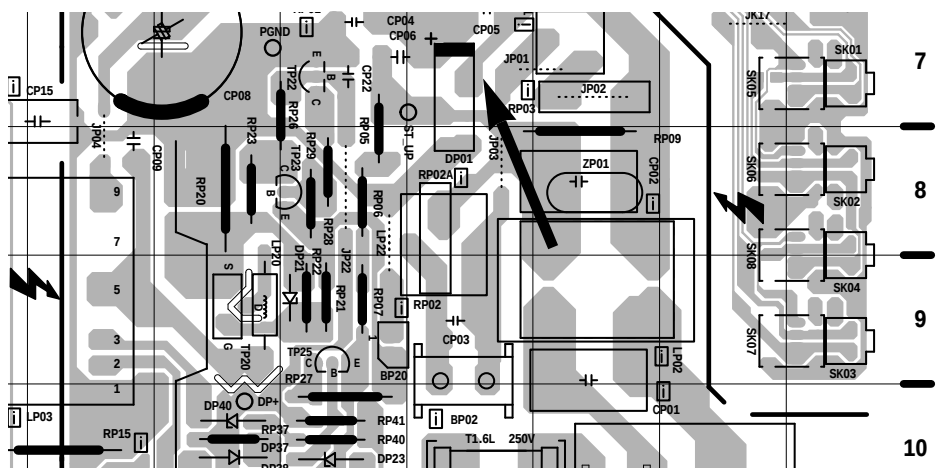
Failure of bridge rectifier RS205-K106 (600 V) at circuit reference number DP01.

**Cause :**

Mains borne voltage spikes exceeding 600-volts

**Solution implemented :**

Change the bridge rectifier for a device type with a much higher breakdown voltage of type number FBI2M4S1 (1 KV) parts code is **25371810**.



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| Condition/<br>Symptom/ | Part Code Number | Qty | Position | Section | Fault<br>Code | Repair<br>Code |
|------------------------|------------------|-----|----------|---------|---------------|----------------|
| 1 1 1 1                | 2 5 3 7 1 8 1 0  | 0 1 | D P 0 1  | P S U   | Q             | A              |

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# TECHNICAL INFORMATION

## Finished products / Chassis concerned : TX807

### Symptom/ Problem observed :

The picture being modulated by the low frequency audio components at high volume levels.

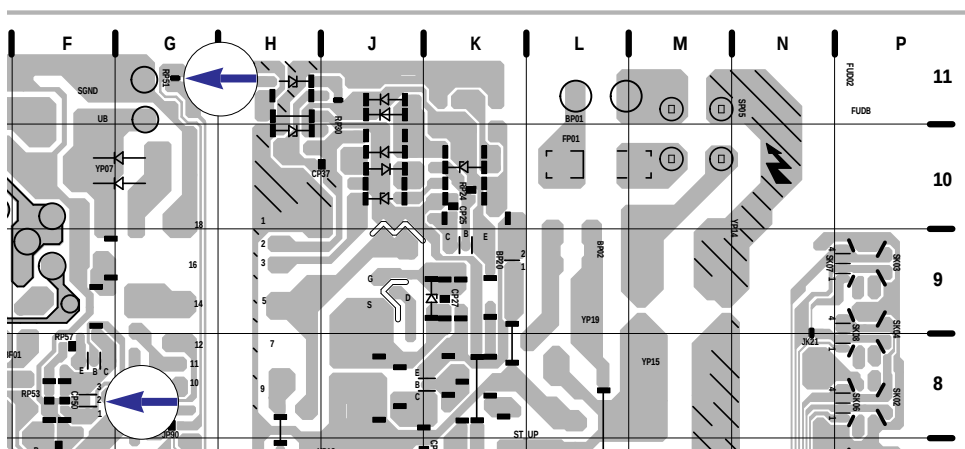
### Cause :

Poor regulation of the power supplies.

### Solution implemented :

Please change the following components : -

- Add a 4.7k $\Omega$  5% 0.10W resistor in position RP51 parts code is **60079900**.
- Change the value of capacitor CP50 from a 470pF to 220pF 10% 50V parts code is **10311200**.



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| Condition/<br>Symptom/ | Part Code Number | Qty | Position | Section | Fault<br>Code | Repair<br>Code |
|------------------------|------------------|-----|----------|---------|---------------|----------------|
| 1 3 5 2                | 6 0 0 7 9 9 9 0  | 0 1 | R P 5 1  | P S U   | Z             | K              |
|                        | 1 0 3 1 1 2 0 0  | 0 1 | C P 5 0  | P S U   | Y             | A              |

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# TECHNICAL INFORMATION

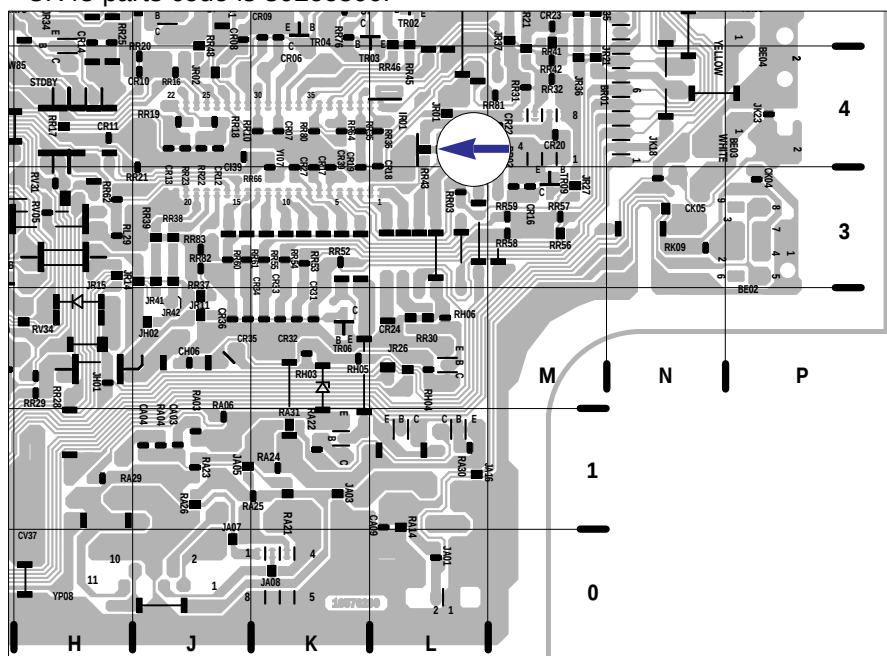
## Finished products / Chassis concerned : TX807

### Symptom/ Problem observed :

Crackling noise in stand-by (Burst mode)

### Solution implemented :

- Change the value of resistor RR43 from 47kΩ to 470kΩ 5% 0.100w part code is **40077500**.
- Connect a 10nF 20% 16v capacitor between the base of transistor TP52 and ground in position CR43 parts code is **30166500**.



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| Condition/<br>Symptom/ | Part Code Number | Qty | Position | Section | Fault<br>Code | Repair<br>Code |
|------------------------|------------------|-----|----------|---------|---------------|----------------|
| H 5 4 6                | 4 0 0 7 7 5 0 0  | 0 1 | R R 4 3  | P S U   | Y             | A              |
|                        | 3 0 1 6 6 5 0 0  | 0 1 | C R 4 3  | P S U   | Z             | K              |

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# TECHNICAL INFORMATION

## Finished products / Chassis concerned : TX807 (20 Inch Version)

**Symptom/ Problem observed :**  
Visible white dots on red or black picture contents (similar to sparkles on satellite reception).

**Cause :**  
Antenna signal too low.

**Solution implemented :**  
- Change the value of resistor JH04 from 0Ω to 1kΩ 5% 0.100W parts code is **10327800**.

**IRIS CODE :** The code mentioned below must be used to report the failure in the warranty sheet. It is proposed to make your report easier and more reliable.

| Condition/<br>Symptom/ | Part Code Number | Qty | Position | Section | Fault<br>Code | Repair<br>Code |
|------------------------|------------------|-----|----------|---------|---------------|----------------|
| 1342                   | 10327800         | 01  | JH04     | ANT     | Y             | A              |

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# TECHNICAL INFORMATION

## Finished products / Chassis concerned : TX807

**Symptom/ Problem observed :**

Picture distortion accompanied by horizontal jitter, most notable at high mains voltage (240V) or low level picture settings (brightness and contrast).

**Cause :**

Oscillation present on the secondary regulation feedback voltage.

**Solution implemented :**

Add a 1nF 10% 50V capacitor in parallel with resistor CP54 (location F8, solder side), the parts code is **10311300**.

**IRIS CODE :** The code mentioned below must be used to report the failure in the warranty sheet. It is proposed to make your report easier and more reliable.

| Condition/<br>Symptom/ | Part Code Number | Qty | Position | Section | Fault<br>Code | Repair<br>Code |
|------------------------|------------------|-----|----------|---------|---------------|----------------|
| 3353                   | 10311300         | 01  | CP54     | PSU     | Z             | K              |

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# TECHNICAL INFORMATION

## Finished products / Chassis concerned : TX807

### Symptom/ Problem observed :

The switch mode power supplies "Burst Mode" can be activated at high mains voltage (240V) and low level picture settings (brightness and contrast).

### Solution implemented :

Change the value of capacitor CP22 from 470pF to 330pF 50V the parts code is **43132072**.

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| Condition/<br>Symptom/ | Part Code Number | Qty | Position | Section | Fault<br>Code | Repair<br>Code |
|------------------------|------------------|-----|----------|---------|---------------|----------------|
| 3315                   | 43132072         | 01  | CP22     | PSU     | Y             | A              |

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# TECHNICAL INFORMATION

## Finished products / Chassis concerned : TX807 (20 & 21 Inches with 5 Watts audio amplifier)

### Symptom/ Problem observed :

- Noise (plop) in loudspeaker when changing channels.
- Noise in loudspeaker and headphone.

### Solution implemented :

To achieve the best possible compromise between both problems;

- Change the value of capacitor CA07 from 1000µF to 220µF 25V parts code is **43401100**.
- Change the value resistor RA22 from 2.4KΩ to 1.2KΩ5% 0.100W parts code is **40089200**.

**IRIS CODE :** The code mentioned below must be used to report the failure in the warranty sheet. It is proposed to make your report easier and more reliable.

| Condition/<br>Symptom/ | Part Code Number | Qty | Position | Section | Fault<br>Code | Repair<br>Code |
|------------------------|------------------|-----|----------|---------|---------------|----------------|
| 1546                   | 43401100         | 01  | CA07     | APA     | Y             | A              |
|                        | 40089200         | 01  | RA22     | APA     | Y             | A              |

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# TECHNICAL INFORMATION

## Finished products / Chassis concerned TX807

### Symptom/ Problem observed :

Background noise in loudspeaker at low volume levels.

### Solution implemented :

- Add a 4.7 $\mu$ F 16V capacitor CR30 between the collector of transistor TR04 (+) and ground, the parts code is **43398160**.
- Change the value of resistor RR75 from 4.7K $\Omega$  to 6.8K $\Omega$  5% 0.100W parts code is **20110200**.
- Change the value of resistor RR76 from 3.9K $\Omega$  to 1K $\Omega$  5% 0.100W parts code is **10327800**.

**IRIS CODE** : The code mentioned below must be used to report the failure in the warranty sheet. It is proposed to make your report easier and more reliable.

| Condition/<br>Symptom/                              | Part Code Number                                                                                        | Qty                       | Position                                                        | Section                                | Fault<br>Code            | Repair<br>Code           |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------|----------------------------------------|--------------------------|--------------------------|
| <div>1</div> <div>5</div> <div>4</div> <div>6</div> | <div>4</div> <div>3</div> <div>3</div> <div>9</div> <div>8</div> <div>1</div> <div>6</div> <div>0</div> | <div>0</div> <div>1</div> | <div></div> <div>C</div> <div>R</div> <div>3</div> <div>0</div> | <div>A</div> <div>P</div> <div>A</div> | <div></div> <div>Z</div> | <div></div> <div>K</div> |
| <div></div> <div></div> <div></div> <div></div>     | <div>2</div> <div>0</div> <div>1</div> <div>1</div> <div>0</div> <div>2</div> <div>0</div> <div>0</div> | <div>0</div> <div>1</div> | <div></div> <div>R</div> <div>R</div> <div>7</div> <div>5</div> | <div>A</div> <div>P</div> <div>A</div> | <div></div> <div>Y</div> | <div></div> <div>A</div> |
| <div></div> <div></div> <div></div> <div></div>     | <div>1</div> <div>0</div> <div>3</div> <div>2</div> <div>7</div> <div>8</div> <div>0</div> <div>0</div> | <div>0</div> <div>1</div> | <div></div> <div>R</div> <div>R</div> <div>7</div> <div>6</div> | <div>A</div> <div>P</div> <div>A</div> | <div></div> <div>Y</div> | <div></div> <div>A</div> |

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# TECHNICAL INFORMATION

**Finished products / Chassis concerned : TX807**

**Subject : Introduction index 02 PCB**

**Solution implemented :**

From initial production with index 01 PCB, DP01 was a bridge rectifier.

From index 02 PCB, the bridge rectifier has been replaced by four individual diodes of device type BYW27-1000 parts code is **10455390** (in position DP01-02-03-04).

# TECHNICAL INFORMATION

## Finished products / Chassis concerned : TX807

### Subject :

To improvement the reliability of the line output transistor TL02 by adding a LC-network in the base drive circuit.

### Solution implemented :

**For sets equipped with PCB index below 02, the base drive circuit must be changed as follows :**

- Replace the wire strap JL10 with a resistor 22 $\Omega$  5% 0.250W parts code is **15007330**.
- Add a 3.9 $\mu$ H coil in parallel with resistor mentioned above parts code is **20770050**.

Note: All sets equipped with PCB index 02 or above have this modification

Already implemented using the new driver transformer at circuit location LL01 parts code is **20936440**.

**IRIS CODE :** The code mentioned below must be used to report the failure in the warranty sheet. It is proposed to make your report easier and more reliable.

| Condition/<br>Symptom/ | Part Code Number | Qty | Position | Section | Fault<br>Code | Repair<br>Code |
|------------------------|------------------|-----|----------|---------|---------------|----------------|
| 1315                   | 15007330         | 01  | LL01     | DFL     | Y             | A              |
|                        | 20770050         | 01  |          |         | Z             | K              |

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# TECHNICAL INFORMATION

**Finished products / Chassis concerned : TX807**

**Subject : Integrated circuit in position IV01**

Two different types of integrated circuit have been used on this chassis at circuit location IV01, which are **NOT INTERCHANGEABLE**.

- 1st version TDA8842 parts code is **20751980**.
- 2nd version TDA8842N2 parts code is **10594850**.

Before ordering this integrated circuit please check the version used in your set.

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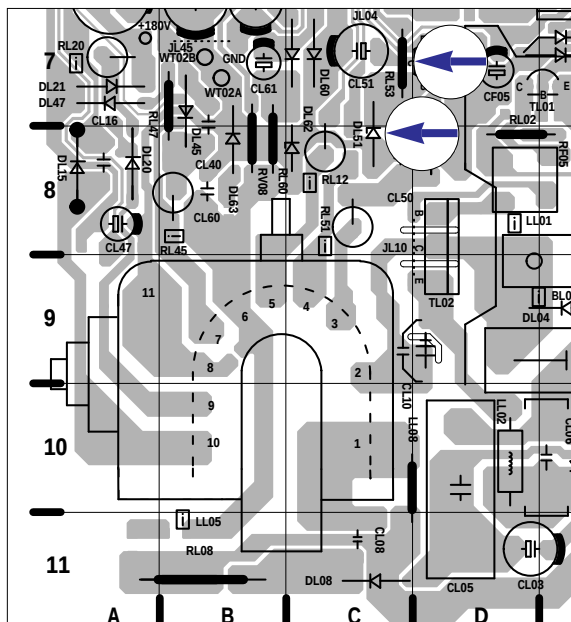
**Finished products / Chassis concerned : TX807**

**Subject : Improving the stability and reliability of +5VR supply voltage to the Tuner/Teletext Module.**

**Solution implemented :**

To improve the stability of the base drive current of transistor TL50 please change the following :

- the zener diode at circuit location DL51 from a 1N5233B 6V to a BZX55B 5V6  
parts code is **70438200**.
- the value of resistor RL53 from 820Ω to 390Ω 5% 0.250W parts code is **15007960**.



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| Condition/<br>Symptom/ | Part Code Number | Qty | Position | Section | Fault<br>Code | Repair<br>Code |
|------------------------|------------------|-----|----------|---------|---------------|----------------|
| 1 1 1 X                | 7 0 4 3 8 2 0 0  | 0 1 | D L 5 1  | P S U   | Y             | A              |
|                        | 1 5 0 0 7 9 6 0  | 0 1 | R L 5 3  | P S U   | Y             | A              |

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