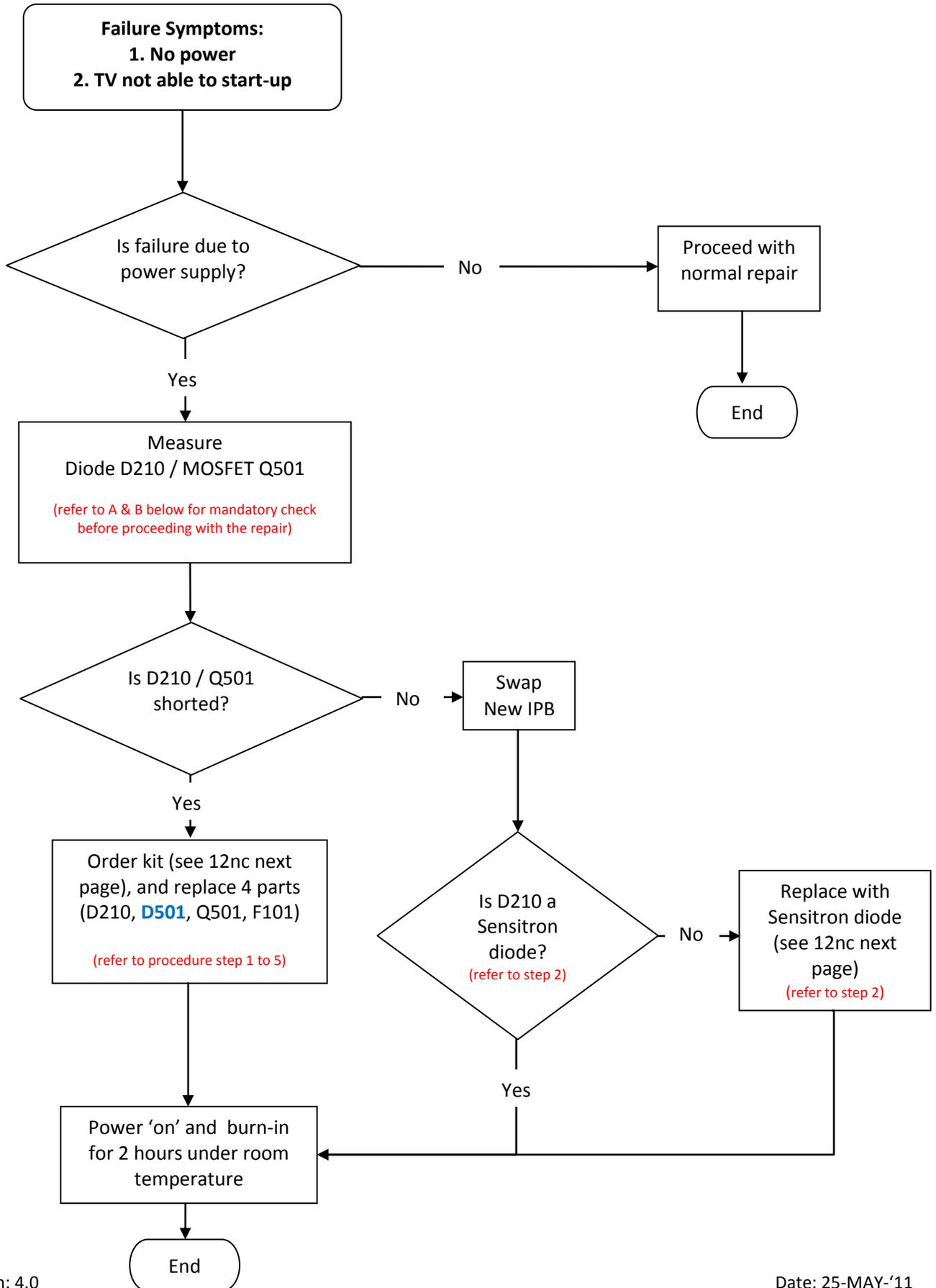


Europe only: Repair Instruction for “TV not able to start-up/No power” symptoms



Repair instruction for Power Supply

Affected model numbers:

Region	CTN	Chassis
Europe	32PFL3705H/12, 32PFL3805H/12, 32PFL5405H/05, /12, /60 37PFL5405H/05, /12, /60 42PFL5405H/05, /12, /60	Q552.1E LA

Only applicable to these Power Supply modules:

Region	IPB Model No	IPB 12NC
Europe	PLHC-P981A	272217100965
	PLHF-P983A	272217100966
	PLHD-P982A	272217100983

Components location and order code:

Service kit 996510043995 (LGIT KIT PLHC-P981A/PLHF-P983A/PLHD982A)

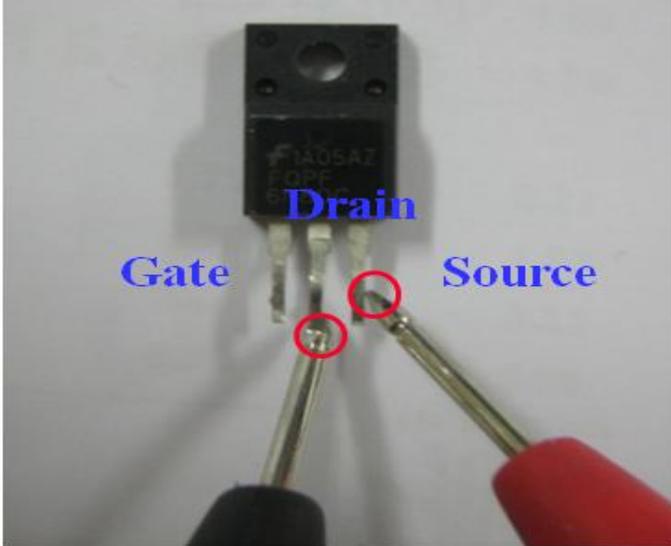
Location	Component Description	Supplier Part No	Philips 12NC
D210	Diode -SB3200	2DK3200AABB-R	Part of kit, or 996510043937 (loose comp.)
D501	Diode - UF4007	2DF4007AATA-R	Part of kit
Q501	FET - FQPF6N80C	2TFA68000BB-F	Part of kit
F101	3.15 A fuse – 2153.15MXB940P	2600KZ0217L-F	Part of kit

Mandatory: Perform these checks before proceeding with the repair.

A) Q501 FET Faulty checking

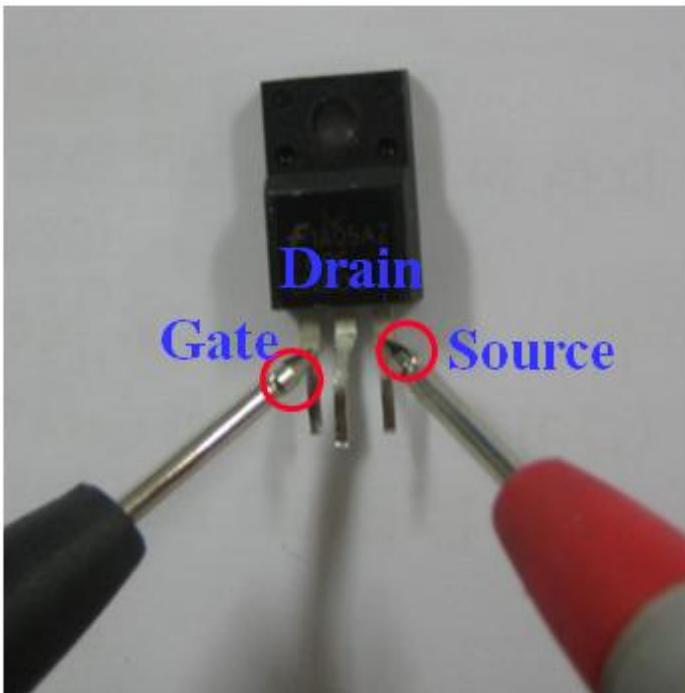
Drain-Source measurement

1. Contact Drain pin of FET with black probe of Multi Meter and contact Source pin with red probe.
2. If buzzer of Multi Meter sounds when measure V_f , it is shorted and NG.



Gate-Source measurement

1. Contact Gate pin of FET with black probe of Multi Meter and contact Source pin with red probe.
2. If buzzer of Multi Meter sounds when measure V_f , it is shorted and NG.



B) D210 Diode Faulty checking

1. Contact Anode pin of Diode with red probe of Multi Meter and contact Cathode pin with black probe.
2. If buzzer of Multi Meter sounds when measure V_f , it is shorted and NG.



Component repair procedure:

Notes:

- For IPB failures due to D210/Q501: perform step 1 – 5.
- For IPB failures due to other components: perform steps 2, and 5c only.

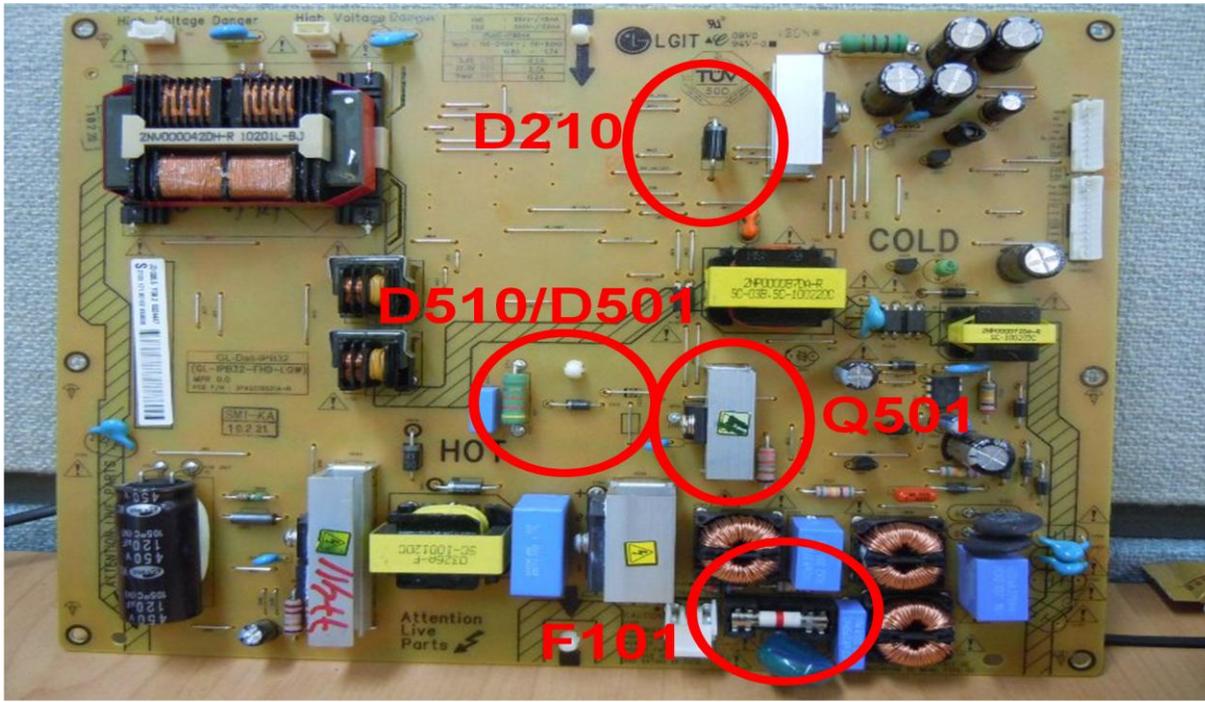


Fig. 1 Location of components D210, **D501**, Q501, and F101

STEPS:

1. **Replace Item Q501 (FET FQPF6N80C) with new component.**
Refer to Fig.2 for the component replacement flow.

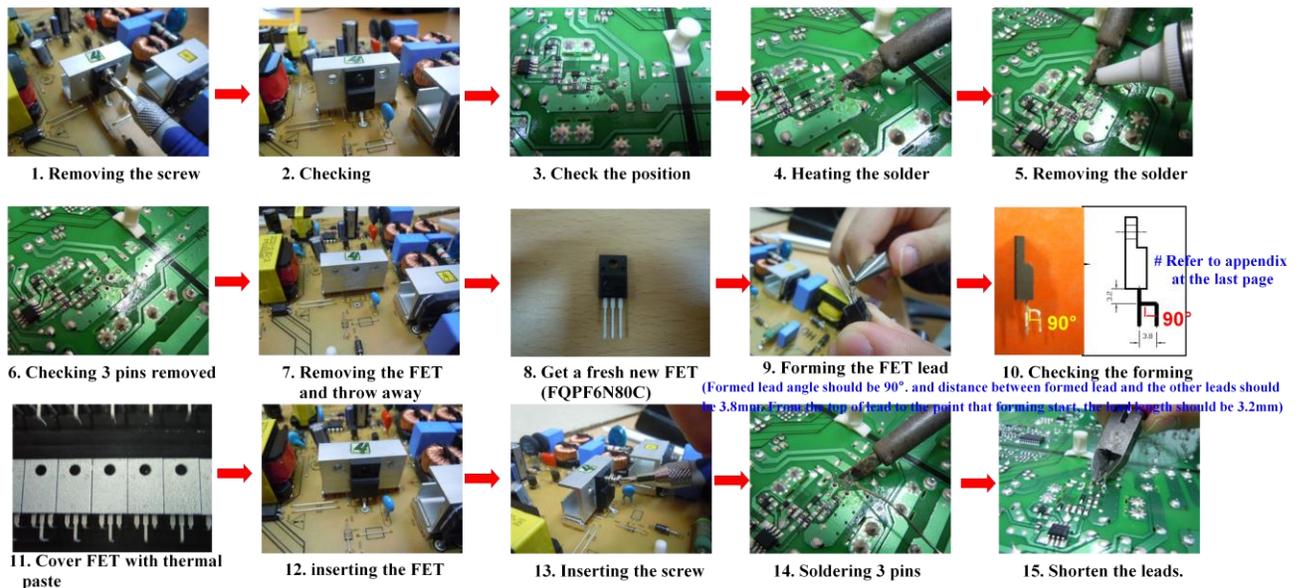


Fig. 2 Item Q501 replacement flow

2. Replace Diode D210 (SB3200) from Dachang (Fig. 3) to Sensitron source: 996510043937 (Fig.4). Refer to Fig. 5 for the diode replacement flow.



Fig. 3 Dachang source – with “SIYU” marking



Fig. 4 Sensitron source – with “SSG” marking

3. Replace Diode D501.

Refer to Fig. 5 for the diode replacement flow.

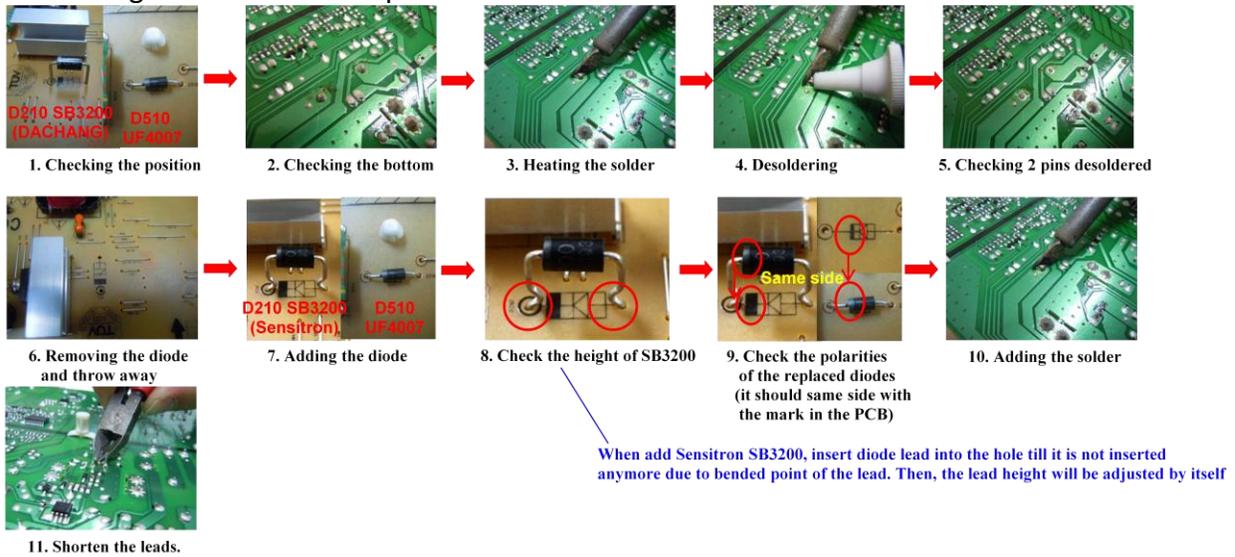


Fig. 5 D210 & D501 Replacement flow

4. Replace Fuse F101.

Refer to Fig.6 for the replacement flow.

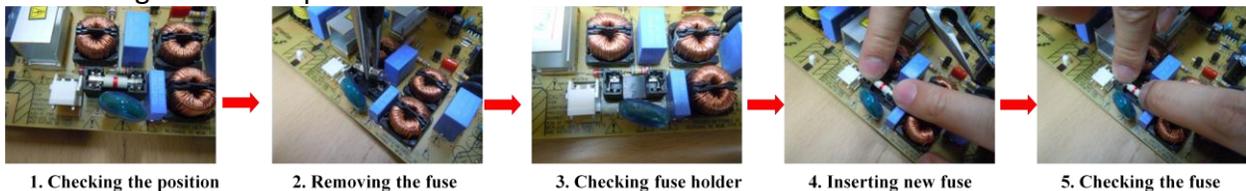


Fig. 6 F101 Replacement flow

5. Perform the following check after replacing the components, using a Multi Meter.

a. Q501 FET measurement

- Drain-Source measurement: Connect the black probe to the Drain pin, and the red probe to the Source Pin (Fig.7). If the Multi Meter does not beep, it is ok.
- Gate-Source measurement: Connect the black probe to the Gate pin, and the red probe to the Source Pin (Fig.8). If the Multi Meter does not beep, it is ok.



Fig. 7 Q501 Drain-Source measurement

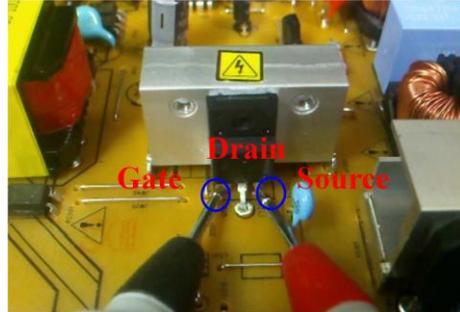


Fig. 8 Q501 Gate-Source measurement

b. Fuse F101 measurement

Connect probes to the edge of the fuse (Fig.9). If resistance value is less than 1 ohm, it is OK.



Fig. 9 Fuse F101 measurement

c. Diode D210 and D501 measurement

Connect the red probe to the Anode, and the black probe to the Cathode of the diode (Fig.10). If the Multi Meter does not buzz, it is normal.

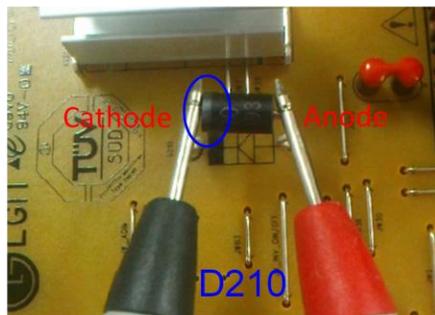


Fig. 10 Diode **D501** & D210 measurement

6. Burn in test after repair:

Please power on the TV & switch to any valid channel, **and playback for 2 hrs** before returning the TV to consumer (at room temperature).