

Troubleshooting electrical problems in high-end TVs

Using logging and TrendCapture in the Fluke 289 DMM

Application Note

These troubleshooting steps feature the Fluke 289 DMM because of its onscreen trending capabilities. TrendCapture helps troubleshooters spot anomalies faster by showing results on-screen as soon as recording sessions are complete. Follow correct safety procedures for testing live circuits. Use a safety-rated, fused digital multimeter (DMM) and test a known voltage source first to make sure your meter is operating properly.

1. Testing over voltage or supply overload shutdown in televisions:

Most televisions sets that use CRT's have shutdown circuits that turn off the TV when the high voltage goes too high. These same sets also have circuits that detect excessive supply voltage or load currents for several low voltage supplies. It is often a real challenge to find an intermittent shutdown problem because most TV's do not have built in circuits that indicate which supply is intermittently overloaded or has intermittent excessive voltage.

You can use the Fluke 289 Digital Multimeter (DMM) to find the power supply that is causing the shutdown problem. Connect the meter across the HV/deflection supply, monitor the voltage level, and record the voltage level over a period of time. You can also set the meter in MIN-MAX mode, wait for the shutdown to occur, and observe the maximum voltage. If you don't see an over voltage problem, test another supply. For some supplies, you may be able to access the current sense shunt, and then you can easily connect the meter across the resistor to monitor the current in MIN-MAX mode.

2. Testing for cause of repeated failure of convergence amplifiers in projection televisions.

Projection television sets that use three projection CRT's have circuits that dynamically modify the deflection of the electron beams in the three tubes to converge the three colors displayed on the screen. The convergence is done by driving secondary deflection yokes with hybrid power amplifiers. These amplifiers are usually packaged two or three in a hybrid assembly.

The amplifiers are fairly reliable, but occasionally there may be a set where the amplifiers fail in less than a year, and the replacement amplifier fails in six to nine months. Using a 289 DMM and a temperature probe, you can conduct a simple extra check to determine if a repair is really complete and the TV will not have a repeating failure.

After a hybrid amplifier assembly has been replaced, connect the temperature probe to the amplifier assembly and heat sink (at the junction of the body of the amplifier assembly and



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