

Troubleshooting electrical problems in high-end TVs

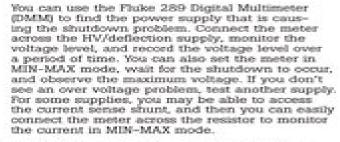
Using logging and TrendCapture in the Fluke 289 DMM

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.

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.



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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Aviation Unit and Aviation Intermediate Maintenance Manual ,1988 Transmittal Memorandum for Engineering Handbook (EHB) No. 1, Issuance 91-1 United States. National Weather Service,1991 Stock Factograph Manual ,1971 Engineering ,1978 Technical Note ,1914 Ham Radio Magazine ,1978 Instrumental Equipment Catalog United States. National Weather Service,1991 Experiment Station Record U.S. Office of Experiment Stations,United States. Agricultural Research Service,United States. Office of Experiment Stations,1914 Ham Radio ,1978 Experiment Station Record United States. Office of Experiment Stations,1914

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