

### **Overview**

The Tenma Model 72-1082 ATX Power Supply Tester is designed to provide fast convenient verification of proper operation of ATX style computer power supplies. Connecting an ATX 20-pin connector to this tester will provide immediate visual indication of operation of the power supply. Additionally, test points are provided to allow verification of proper voltage of each power supply output.

## Operation

Typically, ATX style power supplies are switched on/off from the motherboard. The Tenma ATX Power Supply Tester simulates this command by placing a proper current load across Pin4 and Pin5 of the 20-pin ATX connector. When its rocker switch is placed in the **ON** position, the power supplies cooling fan will engage, and the LED indicator, located in the tester rocker switch, will light. This indicates that the power supply is functioning. In most cases, this level of pass/fail testing is all that is required.

In some circumstances where the supply is operational yet erratic behavior exists, it may be desirable to verify correct voltage of the +3.3V, +5V, +12V (and -5V where applicable), outputs. Using a separate voltmeter (not included) the voltage of each output may be measured.

## Directions

- Disconnect the computer power supply from the AC power source
- Disconnect all IDE and other devices that are connected to the computer power supply
- Disconnect the large 20-pin ATX connector from the motherboard
- Set the rocker switch on the tester to the **OFF** position
- Connect the 20-pin ATX connector, from the power supply, to the tester
- Connect the computer power supply to an AC power source
- Set the rocker switch on this tester to the **ON** position
- If the LED on the rocker switch lights, the power supply is functioning

# **Testing Output Voltage**

Test pins are located at each of the following locations on the 20-Pin ATX connector for voltage measurement. This is most easily accomplished using a compact, handheld digital multimeter such as the Tenma Model 72-7770 (available separately). To measure voltage, place the (–) lead in connector Pin3. Then place the (+) lead in the pins as shown below to measure each output voltage.

## Pin Voltage

+3.3VDC
OV
+12.0VDC
- 5.0VDC (not used on all ATX style supplies)
+ 5.0VDC

#### Note:

If an analog meter is used to measure the -5VDC on Pin18, the test leads must be reversed. Place the (-) lead in Pin18, and the (+) lead in Pin3. In this arrangement, the proper voltage will measure +5VDC.

> Model #72-1082 Tenma Test Equipment www.tenma.com