

## Testing the power supply separately from the system

Follow these steps to test the power supply.

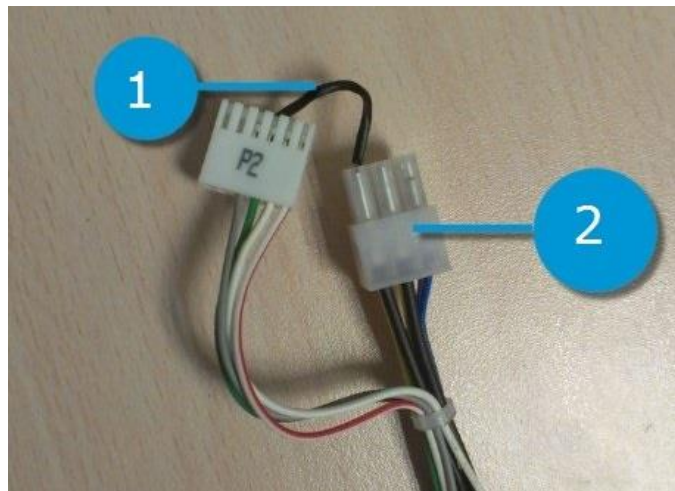
Using the computer system but unplug all of the power supply unit (PSU) connectors from the motherboard:

1. Insert the AC power cord into PSU.
2. Enable PS\_ON to turn the PSU.
  - **Commercial PSUs**

With 3 connectors: P1 – 6pins, P2 – 6 pins, P3 – 4pins.

Connect or short PS\_ON signal (P2 pin 3, green color wire) to Ground (P1 pin 1-2, black color wires) using a jumper wire.

Figure 3: Commercial PSUs



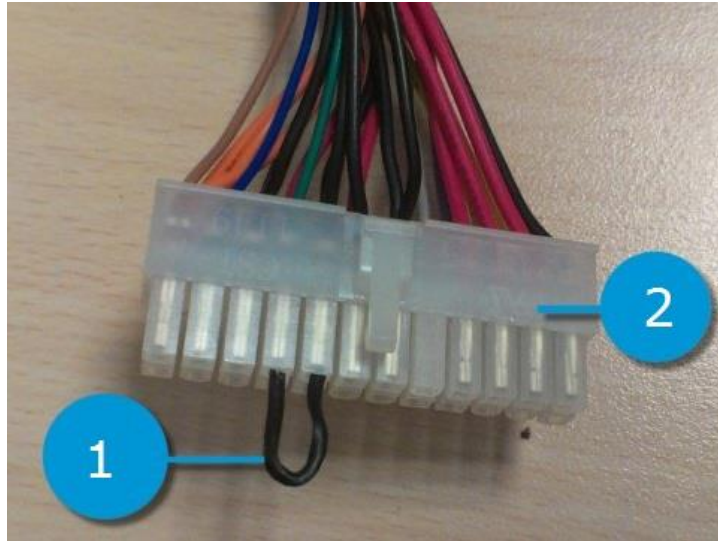
- 1 - Jumper wire; metal paper clip can be used
- 2 - P1 connector with 24 pins

- **Consumer PSUs**

With P1 connector – 24 pins and other SATA connectors (2 or more).

Connect or short PS\_ON (P1 pin 16, green color wire) to Ground (P1 pin 17-19, black color wires) using a jumper wire.

Figure 4: Consumer PSUs



1 - Jumper wire; metal paper clip can be used

2 - P1 connector with 24 pins

3. Check if the PSU fan is rotating.
  - If the PSU fan is rotating, the PSU has output voltage and is good.
  - If the PSU fan is not rotating, you cannot turn on the PSU and the PSU is bad. Replace the PSU.