ATX Power Supply Re-use

This article shows how to re-use an ATX power supply.

CAUTION : As an ATX power supply is plugged on the AC power please make any manipulation with an extreme care. An ATX power supply can be a great tool for the electronics hobbyist. Indeed, such a power supply has the following advantages :

Fred Saccoccio Website

- It's cheap compared to professional power supplies. Especially if you take it out of an old PC.

- It provides symetrical tensions such as +/-12 V and +/-5V and also +3.3V.

Here follows the pinouts of the ATX power supply :

13.3V Orange+3.3 VDC23.3V Orange+3.3 VDC3COM BlackGround45V Red+5 VDC5COM BlackGround65V Red+5 VDC7COM BlackGround8PWR_OK GrayPower Ok (is a status signal generated by the power supply to notify the computer that the DC operating voltages are within the ranges required for proper computer operation)95VSB Purple+5 VDC Standby Voltage (max 10mA)1012V Yellow+12 VDC113.3V Orange+3.3 VDC12-12V Blue-12 VDC13COM BlackGround14/PS_ON GreenPower Supply On (active low). Short this pin to GND to switch power supply ON, disconnect from GND to switch OFF.15COM BlackGround16COM BlackGround17COM BlackGround18-5V White-5 VDC195V Red+5 VDC205V Red+5 VDC

This table was taken from the really good website : http://pinouts.ru. How to use it ?In order to be able to use all the voltages supplied by the ATX power you have to put the green wire (number 14 /PS_ON) to the ground (named GND and black in the table above). In order to stop the power supply, just disconnect the green wire (#14) from the ground to leave it up.