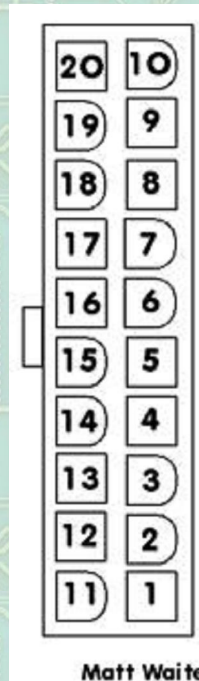




ATX Power Supply

(View looking into pins of plug)



Pin number	Description	Typical Colour*
1	+3.3V	ORANGE
2	+3.3V	ORANGE
3	GND	BLACK
4	+5v	RED
5	GND	BLACK
6	+5V	RED
7	GND	BLACK
8	POWER GOOD#	WHITE
9	+5V STANDBY	PURPLE
10	+12v	YELLOW
11	+3.3v	ORANGE
12	-12v	BROWN

13	GND	BLACK
14	POWER ON	GREEN
15	GND	BLACK
16	GND	BLACK
17	GND	BLACK
18	-5V	BLUE
19	+5V	RED
20	+5V	RED

NOTES: The predecessor to the ATX supply, the [AT supply](#) had two useful features. It would usually start with only it's internal cooling fan as a load, and it had a 'real' on/off switch. This enabled a suspect supply to be checked quite easily.

The ATX supply however is a little more tricky to test, as it uses a 'soft' power switch and requires an external load. In order to start, the supply must be loaded to *at least* 20W or (10% rated power), below this the supply may run, but regulation will be very poor.

This load can be achieved by connecting 4 or 5 paralleled 4R7 power resistors into a convenient drive power connector (across the 5V rail, between black and red). If the test is to last more than a couple of seconds ensure adequate heat sinking has been provided.

To start the supply simply short between pins 14 and 15 with a wire link.

*The colours indicated are only as a guide, there is no standard colour convention.

#The power good line will become high (+5V) shortly after switch on, when the supply outputs have stabilised.

**AS WITH ALL SWITCH MODE PSUs, THE ATX SUPPLY IS POTENTIALLY VERY DANGEROUS.
DO NOT ATTEMPT THE PROCEDURE OUTLINED ABOVE UNLESS YOU ARE SUITABLY
QUALIFIED.**

**IT IS INADVISABLE TO *EVER* REMOVE THE LID OF THE SUPPLY AND ATTEMPT A
COMPONENT LEVEL REPAIR. WITH A NEW SUPPLY COSTING LESS THAN A COUPLE OF
PIZZAS IT'S JUST NOT WORTH IT!**

Feedback