


1 What do you need:

DON'T DO THAT IF YOU DO NOT KNOW WHAT I DESCRIBE HERE. YOU HAVE TO UNDERSTAND THAT !! you can damage your d8b when you do something wrong (e.g. connecting 12V line to 5V)!!!

Order this at reichelt / or different distributor www.reichelt.at

NOTE !!! PSUs/transformer buy for your selectet primary voltage 230V/110V. the one in this list is for 230V

Artikelnummer	Kurzbeschreibung	WG	Anzahl	Einzelpreis	Summe	
 WS R13-112 AAAA	Wippschalter rund, 1x EIN - AUS	1	<input type="text" value="1"/>	0,71 €	0,71 €	✘ ab Lager Lieferzeit: 2-3 Werktage
 KES 2SI	Kaltgeräte-Einbaustecker mit Sicherungseinsatz	1	<input type="text" value="1"/>	1,11 €	1,11 €	✘ ab Lager Lieferzeit: 2-3 Werktage
 SNT RS 100 12	Schaltnetzteil, 102W, 8,5A, 12V	1	<input type="text" value="1"/>	24,50 €	24,50 €	✘ ab Lager Lieferzeit: 2-3 Werktage
 SNT RS 100 5	Schaltnetzteil, 80W, 16A, 5V	1	<input type="text" value="1"/>	24,50 €	24,50 €	✘ ab Lager Lieferzeit: 2-3 Werktage

Beschreibung	Menge	Preis/Einheit	Warenwert
 Traco 2-Kanal Einbau Schaltnetzteil 35W, ±15Vdc / 1.5 A, 2.4 A, 109 x 82 x 35mm RS Best.-Nr. 466-6878 Marke TRACOPOWER Herst. Teile-Nr. TXL 035-1515D RoHS-Status Kompatibel	<input type="text" value="1"/> Aktualisieren Entfernen ✓ 1 Lieferbar am folgenden Werktag (Mo-Fr) bei Bestelleingang werktags bis 19 Uhr.	€ 43,10 1 Stück	€ 43,10

- **+/-15V supply :**
RS Best.-Nr. 466-6878
Hersteller TRACOPOWER
Herst. Teile-Nr. TXL 035-1515D

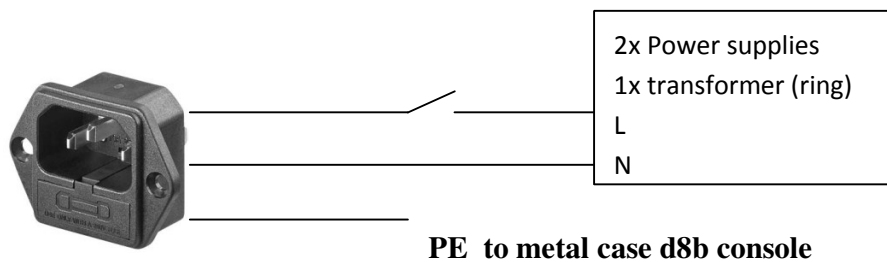
You can use instead of KES2SI and WS R13-112 AAAA a KES 2SI similar type with fuse AND switch to power your console on/off.

For fuse check the datasheet of the bought PSUs. Usually 3A slow should be OK.

2 BUILD UP

connect the 230V/110V site

Plug -> switch -> transformer and the two power switching supplies



-Build up velleman kit, connect the trafo (DO NOT CONNECT D8B yet) **THE REGULATORS NEED ISOLATION TO THE HEAT SINK!!!**

- connect the power up and trim the trimmers on the +/-16V kit to +16V and -16V !!! Use a voltmeter here

-Power down

See instructions on next page !!

Solder output from PSU 5V, 12V and +/-16V to the d8b console connector as shown. check for solder pads to solder GND lines. You can also use the - pole of the capacitors

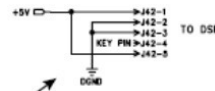
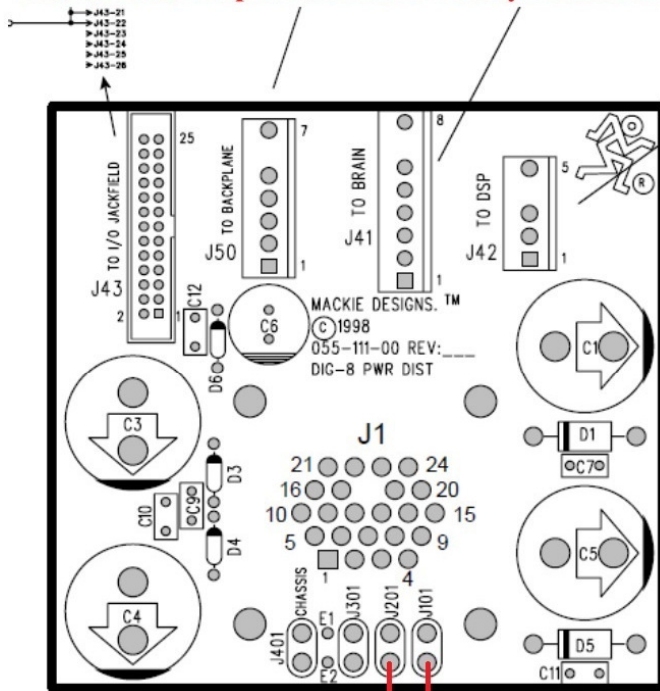
C3,C4,C1,C5 for that but also J1 has some GND connections

AGND +/-16V J1-10

DGND +5V J1-1,J1-2, J1-3. MGND +12V J1-19,
J1-20

be aware that the pins will mirror when you turn the PCB 🖨️

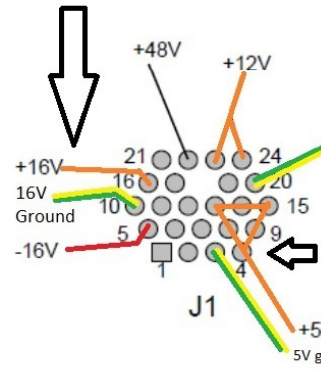
be aware that the pins will mirror when you turn the PCB 😊



You need 3 power supplies.
 1 with +12V and ground connector.
 1 with +5V and ground connector.
 1 with +16V and -16V, and ground connector.

The power supplies need to deliver DC voltage. 5V DC, 12V DC and 16V DC. (Direct current)
Not AC voltage.

16V power supply
 Connect the +16V to pin 16.
 Connect the -16V to pin 5.
 Connect the ground from the 16V power supply on pin 10.

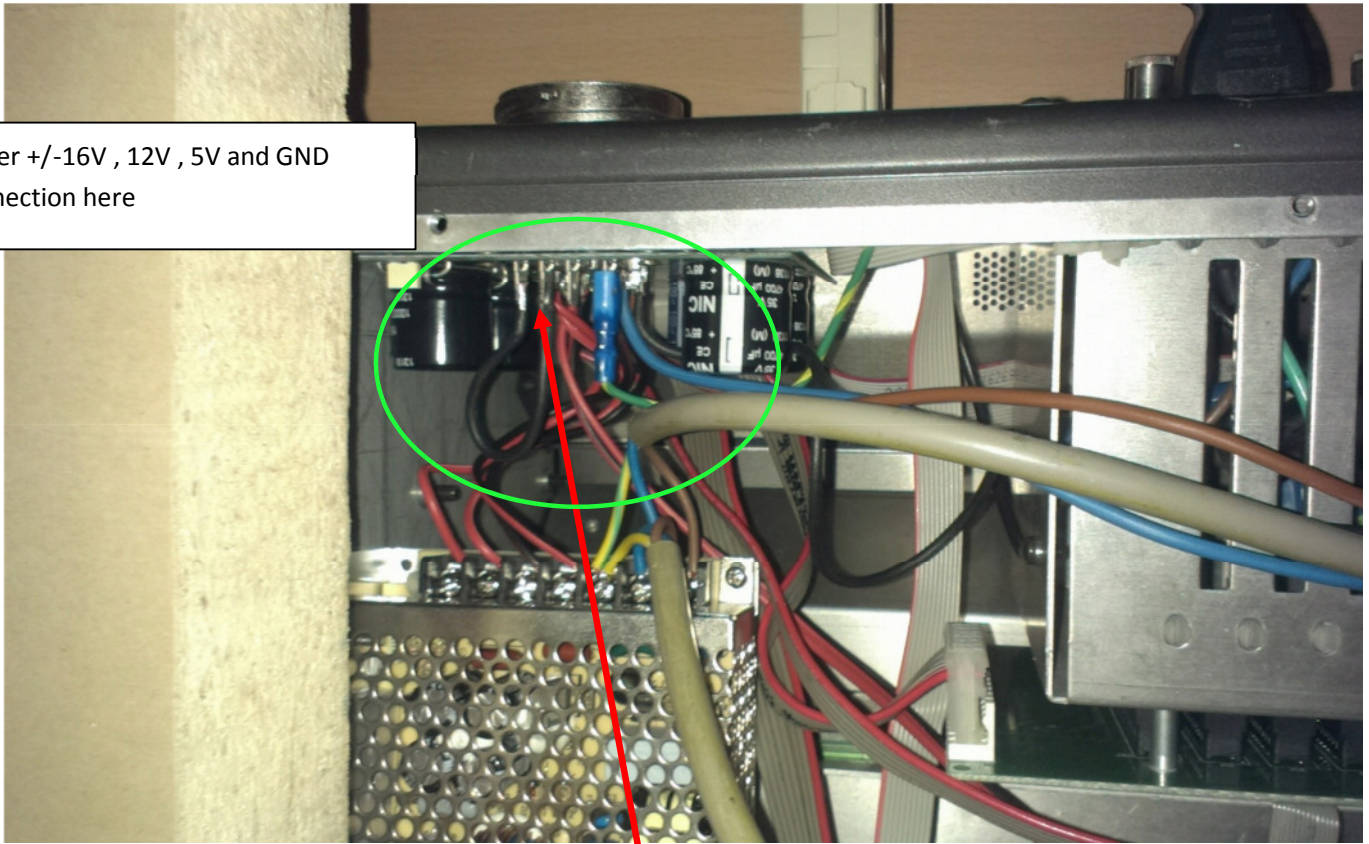


12V power supply
 Connect 2 +12v.
 One on pin 23 and one on pin 24.
 Connect the ground from the 12v powersupply on pin 19 or 20.

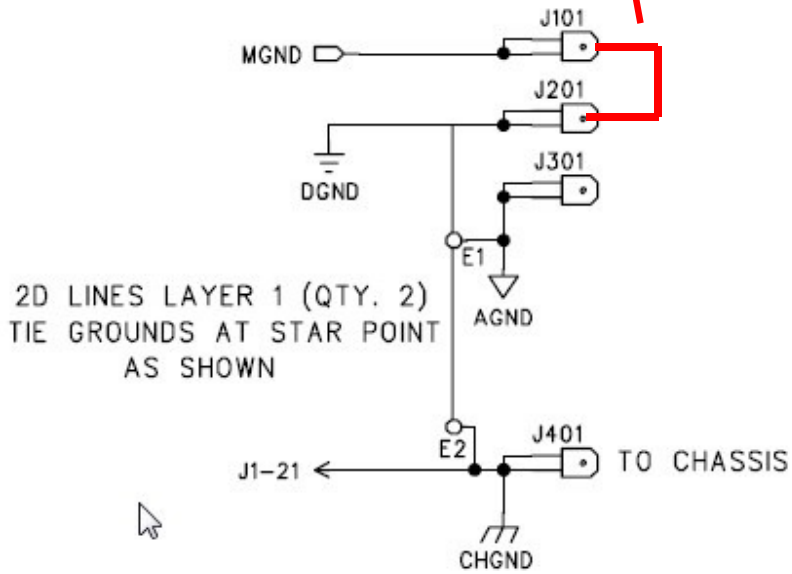
5V power supply
 All of these need +5v.
 (pin: 4,8,9,13,14,15)
 Connect the ground from the 5v powersupply to ONE of the pins 1,2 or 3.

You need to solder a connection between these 2.

solder +/-16V , 12V , 5V and GND connection here

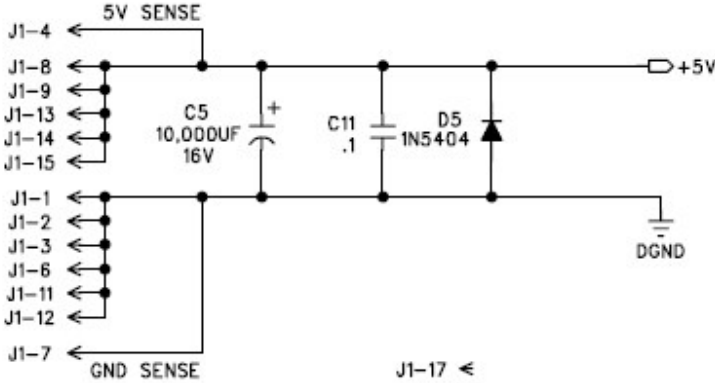
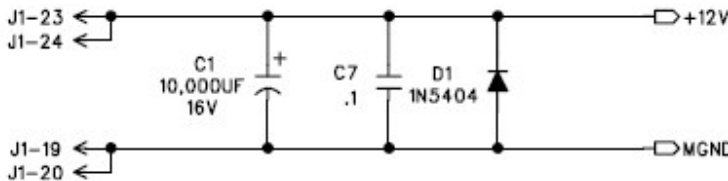
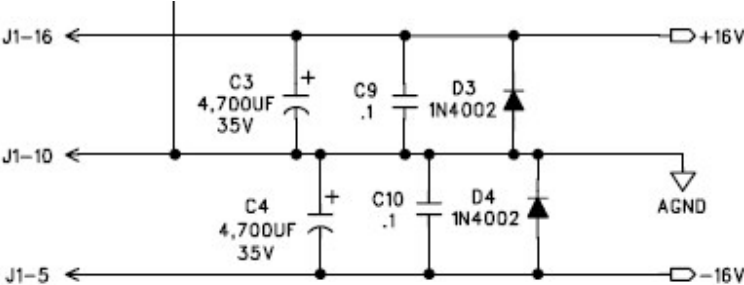


Connect MGND to DGND



See next page for more information

To complete the circuit and for more information:

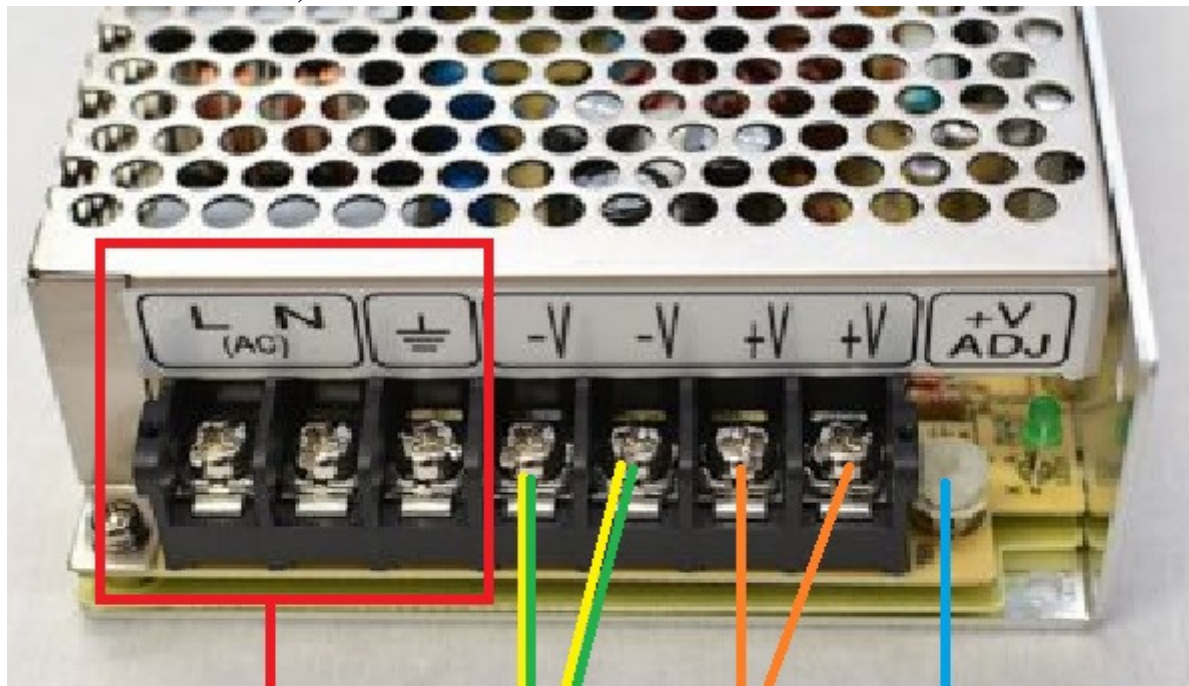


J1-17 <=

J1-18 <=

UNUSED PINS
NOTE: PIN 18 ON PCB BLOCKED

Connections of the 5V,12V



This is where you connect the power 110/220V.

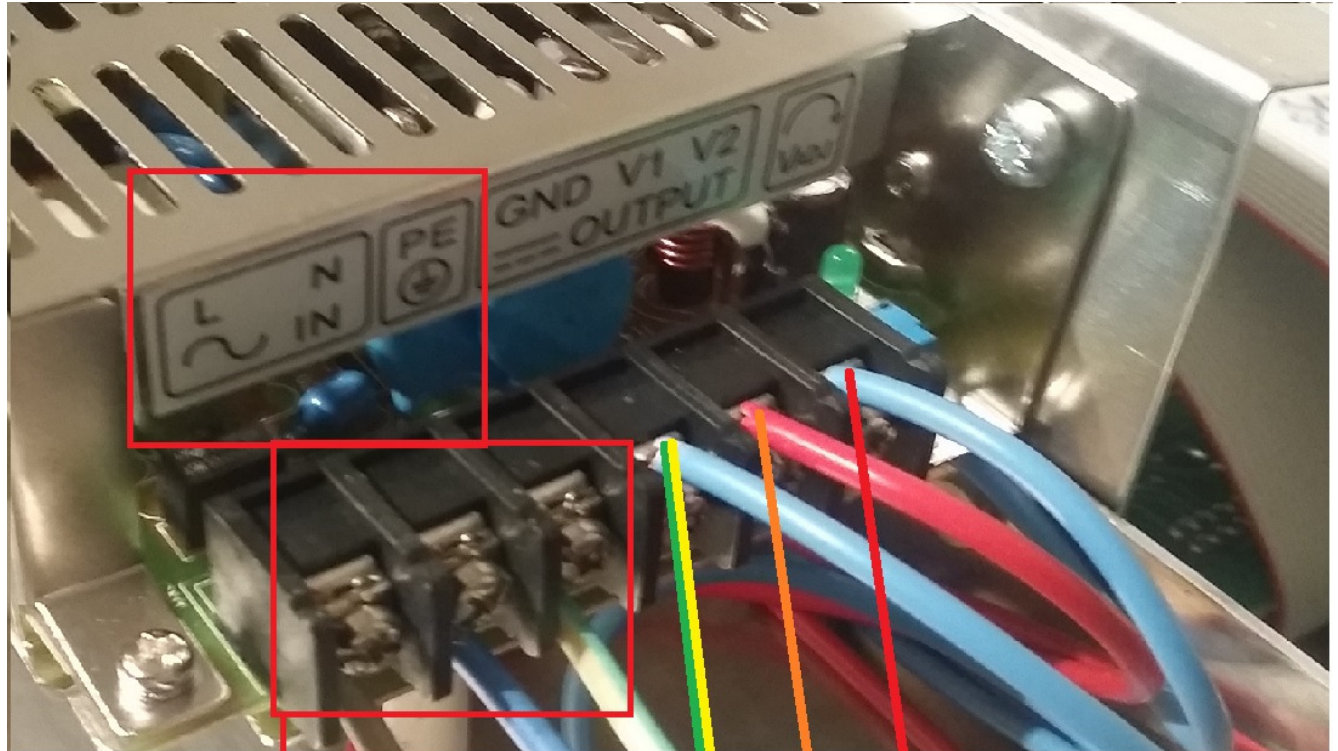
This is the output ground.

This is the +V.
(5V or 12V depending on power supply)

This is where you finetune the output Voltage on the power supply.

Connection of the +/-16V Supply

check if V1=16V and V2=-16V before you connect to your d8b !!!



This is where you connect the power.
(110V or 220V)

Output ground.

-16V

+16V

12V power supply, mount the side with the bigger heatsink outside to the metal case (cooling)

