Mainboard Circuit
(12V)

Power Supply Circuit
(12V −35V)

VCC

U1   L7810

10V

+ C1   C2   IN   OUT   + C3   C4
470nF   100nF   GND   1000µF   100nF

GND

10V

J1   R2   U2   4N35
1   10k   1   6
2   5
Mainboard   4

GND

VCC

Q2
IRF1404

XT60
2   VCC   Power Supply Input
1   GND
GND   J2

R1
10k

D1   LED   R5
2   2.2K

LED on/off
1   2
SW2

D2   LED   R7
2   2.2K

J4   R8   U3   4N35
1   10k   1   6
2   5
Mainboard   4

U4
TC4426
V+
2   IN_A   OUT_A   7
4   IN_B   OUT_B   5
GND
3

10V

GND

R3
10k

10V

GND

Q3
IRF1404

Q5
IRF1404

Q6
IRF1404

XT60
2   VCC   Hotbed Connector
1   GND
J3

XT60
2   VCC   Hotend Connector
1   GND
J5

IRF1404 N −Channel MOSFET
V_DS   : 40V
V_GS   : 20V
R_DS(on): 4 mOhm

GND

Mosfet Protection for Hotbet and Hotend
for Hotend and hotbed there are 1 Mosfet + 1 backup Mosfet for each

SW1 turn on/off signal leds

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