



TMC-SPI MODE			
MOSI	SCLK	CS	MISO
PE14	PE12	PE6 PE3 PB7 PB3 PD4 PD0 PD15 PD11	PE13
Driver0:X Driver1:Y Driver2:Z Driver3:E0 Driver4:E1 Driver5:E2 Driver6:E3 Driver7:E4			

TMC-UART	
TX	RX
PE6 PE3 PB7 PB3 PD4 PD0 PD15 PD11	

DRIVE STEPPER		
EN	STEP	DIR
PC15 PC15 PE2 PB6 PD7 PD3 PC8 PB6	PC14 PE5 PE1 PB5 PD6 PD2 PC7 PD13	PC13 PE4 PE0 PB4 PD5 PD1 PC6 PD12
Driver0:X Driver1:Y Driver2:Z Driver3:E0 Driver4:E1 Driver5:E2 Driver6:E3 Driver7:E4		

Driver0:X	Driver1:Y	Driver2:Z1	Driver2:Z2	Driver3:E0	Driver4:E1	Driver5:E2	Driver6:E3	Driver7:E4
1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B

TMC UART Jumpers set



TMC SPI Jumpers set



STEP/DIR Jumpers set



TF CARD

DET:	PC4
CS:	PC9
SCK:	PC10
MISO:	PC11
MOSI:	PC12

U DISK

D-:	PB14
D+:	PB15

USB

D-:	PA11
D+:	PA12

HE2
PA3

HE1
PB0

HE0
PB1

PB10

H-BED

DC12-24V

DC12V

DC5V

DC5V

DC5V

DC5V

DC5V

DC5V

DC5V

DC5V

DC5V

VIN
DC12V
DC5V

VIN
DC12V
DC5V

VIN
DC12V
DC5V

VIN
DC12V
DC5V

VIN
DC12V
DC5V

VIN
DC12V
DC5V

VIN
DC12V
DC5V

Z+
PWR

Diag	0	1	2	3	4	5	6	7
Connect	X-	Y-	Z-	Z+	MT-Neo	DET	pixel	NC

MT DET
5V GND PA13

Z+
5V GND PB12

Z-
5V GND PB13

Y-
5V GND PA15

X-
5V GND PA14

EXP2	
PA6	PB2
PE9	PD9
PE8	PD8
PB11	PE7
3V3	5V

3D TOUCH	PC5
Neopixel	PC5

EXP1	
PB2	PE10
PD9	PD10
PD8	PE7
5V	5V

3D TOUCH	PC5
Neopixel	PC5

CAN

NC	CAN_H	NC
NC	CAN_L	NC

Github : <https://github.com/makerbase-mks>
FaceBook : <https://www.facebook.com/Makerbase.mks/>
Makerbase

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