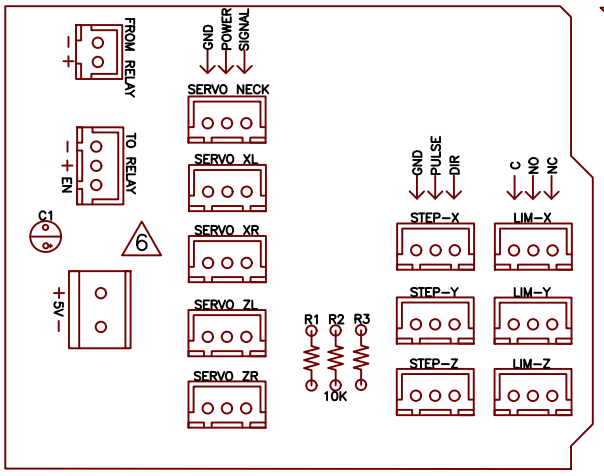
Custom PCB – 2.54mm JST Connectors



TO RELAY
- – EMPTY
- \+ EMPTY
- EN RELAY CH1

FROM RELAY
- – 7V BUCK VOUT– [BLK]
- \+ RELAY COM [RED]

5V TERMINAL
- – 5V BUCK VOUT– [BLK]
- \+ 5V BUCK VOUT+ [RED]

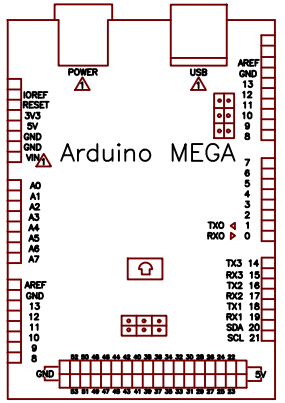
REAR BOARD
- SCL: IMU SCL
- SDA: IMU SDA
- TX2: NEXTION RX
- RX2: NEXTION TX

STEPPERS, SERVOS, LSs AS LABELLED

C1: 47uF Capacitor

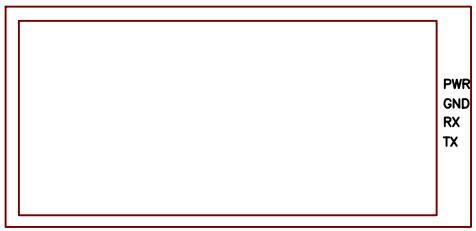
Ardunio Mega 2560

Occluded by PCB



Nextion LCD Screen

Nextion native arduino library availble on Nextion website
Edit 'NexConfig.h' to use Serial2



NOTES

1. Arduino MEGA may be powered through port Must be 7–12VDC
2. Ground to Stepper Motor Drivers
3. HIGH VOLTAGE CONFIRM WITH DMM SAFELY
4. DO NOT SWITCH PULSE/DIRECTION

CORRECT STEPPER COILS: UNPOWERED SHAFT HAS RESISTANCE WHEN COIL SHORTED

5. Swap A+/– or B+/– wires to reverse stepper direction
6. DO NOT SHORT 'RELAY BYPASS'
7. Specific to LS, NC/NO are flipped
8. CONNECT GROUND OF VOUTs
9. D50 used for SPI Communication May need to jumper to D14/D15 instead