| Description | Model Name | Quantity needed |
|---|---|---|
| **Note: Teensy and Arduino will be facing downwards and there will be female header pins. The schematic and board v** | | |
| Switching Voltage Regulator | 78SRH-5/2-C | 1 |
| 47uF / 50V Aluminium Polymer Capacitor | 870055775005 | 2 |
| LED | | 1 |
| 1.5k Ohms 1W resistor (for LED) | | 1 |
| 24V connector | 256-402/333-000 | 1 |
| 8 pin IC holder (for Can controller) | MCP2551 (P) not (SN) | 1 |
| CAN IC | | 1 |
| 3 pin molex connector (for CAN Bus) | | 1 |
| 10k Ohms 1/8W Resistor (for CAN RS pin) | | 1 |
| 120 Ohms  1/8 W | | 1 |
| D Sub 15 connector (2 Rows) | | 4 |
| 100 nF capacitor | CK06BX104KT/R | 4 |
| 160 ohm 1/4 W | | 4 |
| 10k ohm 1/8 W | | 4 |
| 8 pin IC holder (for MAX485 RS422 to TTL current) | | 8 |
| MAX485 | | 8 |
| 120 Ohms 1/8 W | | 8 |
| 4 pin molex connector (for Debug) | | 1 |
| 24*2 Female Headers (for Teensy 3.6 - used pins downwards) | | 1 set |
| 4.7k Ohms 1/8W Resistors (for I2C pullups) | | 2 |
| N Channel enhancement MOSFET | IRLB8721 | 5 |
| 160E , 1/8W Gate Resistance | | 5 |
| 4 pin Molex Connector(Temperature and Pressure) | | 1 |
| 10k 1/8 Watt pull up | | 2 |
| 4 pin Molex stepper outgoing | | 1 |
| 3 pin Molex stepper incoming | | 1 |
| stepper sink 1.2k 1/2 watt | | 3 |
| stepper series 10k 1/8 watt | | 3 |
| 2 pin Molex (switch) | | 1 |
| 10k pull up 1/8 watt | | 1 |
| | | |
| | Total | 77 |

| Datasheet Link | | |
|---|---|---|
| **will be mirrored** | | |
| http://www.mouser.com/ds/2/281/mpm_78sr-2a_a00-42390.pdf | | |
| http://katalog.we-online.de/pbs/datasheet/870055775005.pdf | | |
| Not Required | | |
| Not Required | | |
| https://drive.google.com/open?id=0B4PBstU5QzLGaUNWOWhXWmkwd1k | | |
| http://ww1.microchip.com/downloads/en/DeviceDoc/21667f.pdf | | |
| | | |
| https://drive.google.com/open?id=0B4PBstU5QzLGaGszWDctNzRNTTg | | |
| Not Required | | |
| Not Required | | |
| https://drive.google.com/a/bits-pilani.ac.in/file/d/0B4PBstU5QzLGNXZ1eFRmdVlKalk/view?usp=drivesdk | | |
| http://www.kemet.com/Lists/ProductCatalog/Attachments/10/F3101_MIL-PRF-11015.pdf | | |
| Not Required | | |
| Not Required | | |
| https://datasheets.maximintegrated.com/en/ds/MAX1487-MAX491.pdf | | |
| https://datasheets.maximintegrated.com/en/ds/MAX1487-MAX491.pdf | | |
| Not Required | | |
| https://drive.google.com/open?id=0B4PBstU5QzLGaGszWDctNzRNTTg | | |
| https://www.pjrc.com/store/teensy36.html | | |
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| https://drive.google.com/open?id=0B4PBstU5QzLGaGszWDctNzRNTTg | | |
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