

The diagram illustrates the pin connections for the Raspberry Pi 4B, organized into several sections:

- NOSECOE:** A module with pins J10 (USB_OUT), J11 (USB_IN), J2 (SHIELD2), J3 (SHIELD1), J4 (AMP), and J5 (CAN). It is connected to GND and +12V.
- AMPOUT:** A module with pins J6 (AMP) and J7 (RESET). It is connected to GND and +3V3.
- BOOT0:** A module with pins J8 (BOOT0) and J9 (BOOT1). It is connected to GND and +3V3.
- SWDIO/SWCLK:** A module with pins J10 (SWDIO), J11 (SWCLK), and J12 (SWD). It is connected to GND and +3V3.
- UART1_TX/UART1_RX:** A module with pins J13 (UART1_TX), J14 (UART1_RX), and J15 (UART). It is connected to GND and +3V3.
- Power connectors:** A module with pins J16 (+5V), J17 (5V), J18 (GND), J19 (+3V3), and J20 (3V3). It is connected to GND and +3V3.
- Programming/data connectors:** A module with pins J21 (UART1_TX), J22 (UART1_RX), and J23 (UART). It is connected to GND and +3V3.

[illegible]

20
R16

12V
C53
0.1µF

22µF
C5

R15
604K

6.8nF
C56

U5
MP2393

IN
2

BST
5

PG
EN
6

SS
7

SW
3

FB
8

GND
4

1µF
C59

L1
4.7µH

R17
15k

R18
7.68k

R19
40.2k

10pF
C60

C61
22µF

C62
22µF

5V

GND

GND

GND

GND

650 KHz 3A 5V

All Info From Datasheet
<https://www.monolithicpower.com/en/mp2393.html>

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