Mirto 2015 build notes

Solder the resistors. There are four 1K two 4.7K and one 330 ohm resistor

330Ω

1ΚΩ

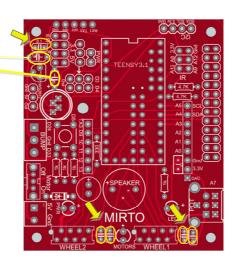
TEENSY3.1.

TEENSY

These two are 1uF

Solder the ceramic capacitors. There are five 0.1uF and two 1uF ceramic capacitors.

(Note there is one polarized capacitor that is soldered in a later step)



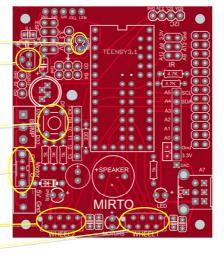
Solder wheel connectors switches regulator and wire link Wire link

Regulator (note orientation)

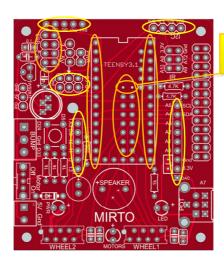
Tactile switch

Motor switch

Wheel Connectors



Use jig to position and solder These male and female headers



These two holes not soldered

4.7ΚΩ

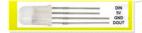
These two headers added in this step

The set wo headers added in this step

Solder two additional headers that are not located using the jig

Solder the diode and LEDs Double check anode locations before soldering LED anode (longer lead) towards plus symbol.

Double check pinout of this LED as these may vary with different suppliers



Note location of anode band

Green LED

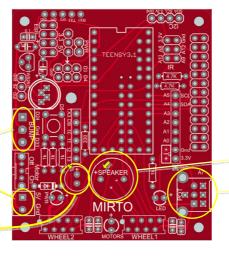
TEENSY3.1 TEENSY

Solder screw terminals, speaker Pot and polarized capacitor.

Double check you have the positive end towards the + symbol on the speaker and capacitor

Screw Terminals

100uF polarized note location of +



Speaker (note location of +)

Pot

Solder Raspberry pi connector

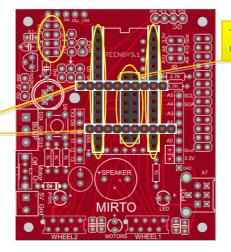


Raspberry Pi GPIO Header

These two holes not soldered

Solder female header sockets

Temporarily insert two mail headers to align sockets while soldering



Solder male headers.

