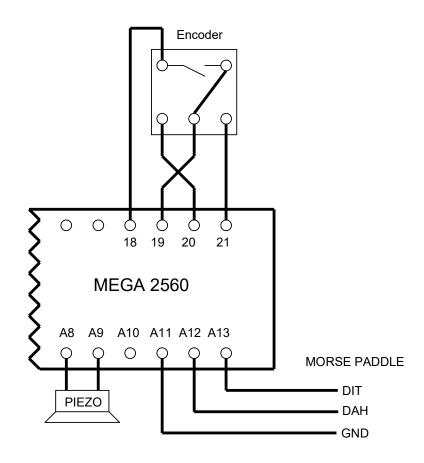
Morse Tutor Simplified Schematic

A 'port' of the W8BH 'Blue Pill' Morse Tutor to a Mega 2560 by Ken, KM4NFQ "Not Fully Qualified" 6 August 2019 modified by GM4CID to simplify assembly 14 August 2019

Hardware
Arduino Mega 2560
2.4 inch LCD Display Shield
Switched Rotary Encoder
Piezo Sounder



2.4 inch LCD Display Shield mounts directly on Mega 2560Mega is 5v USB powered from a mobile phone power bankModification to SD library required, see next page

For the SD reader on the LCD shield to work with no hardware modifications the following two files in the SD library folder have to be changed as follows –

In the file \ libraries\SD-master\ Sd2Card.h

and in in the file \ libraries\SD-master\ Sd2Card.cpp

These changes allow the SD library to use the following pins which are standard for the Uno, Nano etc. –

MOSI - 11

MISO - 12

SCK - 13

CS is defined within the sketch (10)