



RIBBON CABLE TO FRONT PANEL

RIBBON CABLE CONNECTOR (HEADER)

- ENCODER SWITCH
- ENCODER PIN A
- ENCODER PIN B
- KEY JACK DAH
- KEY JACK DIT
- DISPLAY PINS 1 & 8. VCC & LED
- DISPLAY PIN 3 CS
- DISPLAY PIN 4 RESET
- DISPLAY PIN 5 DC/RS
- DISPLAY PIN 6 MOSI
- DISPLAY PIN 7 SCK
- VOLUME POT TOP
- VOLUME POT WIPER
- SPEAKER

FRONT PANEL GND COMMON TO DISPLAY PIN 2 GND. VOLUME POT BOTTOM. ENCODER COMMONS. KEY JACK COMMON.

- 16 B15
- 15 A8
- 14 A9
- 13 B7
- 12 B8
- 11 +5V
- 10 A1
- 9
- 8 A0
- 7 A7
- 6 A5
- 5 A2
- 4
- 3
- 2
- 1

R1 10K

R2 33K

NOTE

ADD JUMPER ONLY AFTER THE VR1 BUCK CONVERTER OUTPUT IS SET TO 5V

BUCK CONVERTER VR1 LM2596 SET OUTPUT TO 5V

U3 PAM8403 AUDIO AMPLIFIER

STM32F103CBT6

U2

KI4PSR PCB Schematic for Morse Code Tutor by W8TEE  
 Rev 1a August 13, 2019  
 Added pads for the SD card  
 Added R2

- 1 A
  - 2 B
  - 3 C
  - 4 D
- PL2 4WP DSC