

Power up → Screen displays welcome message.

No | Button 1 pressed | Yes

Transmission mode

Reception mode

Read potentiometer value

Wait for user to enter text message on phone

Scale pauses between letters & words

Display message on screen (in letters & in dots & dashes)

Display pauses in seconds on screen

No | Button 2 pressed | Yes

Flash LED

Buzz Buzzer

Start allowing user to input letters

Yes | Button 1 pressed | No

User presses Arcade Button to enter Morse code

Flash LED

Buzz Buzzer

Display dots & dashes

Check if input is valid combination

No | Display "invalid combo" | Yes

Display letter

Note:

- Default lengths/pauses:
- Dot: 1 second
- Dash: 3 s
- Pause between dots & dashes of same letter: 1 s
- Pause between letters: 3 s
- Pause between words: 7 s
- *Potentiometer scales up/down these values for different difficulty levels

