Plasma cutter THC with Arduino
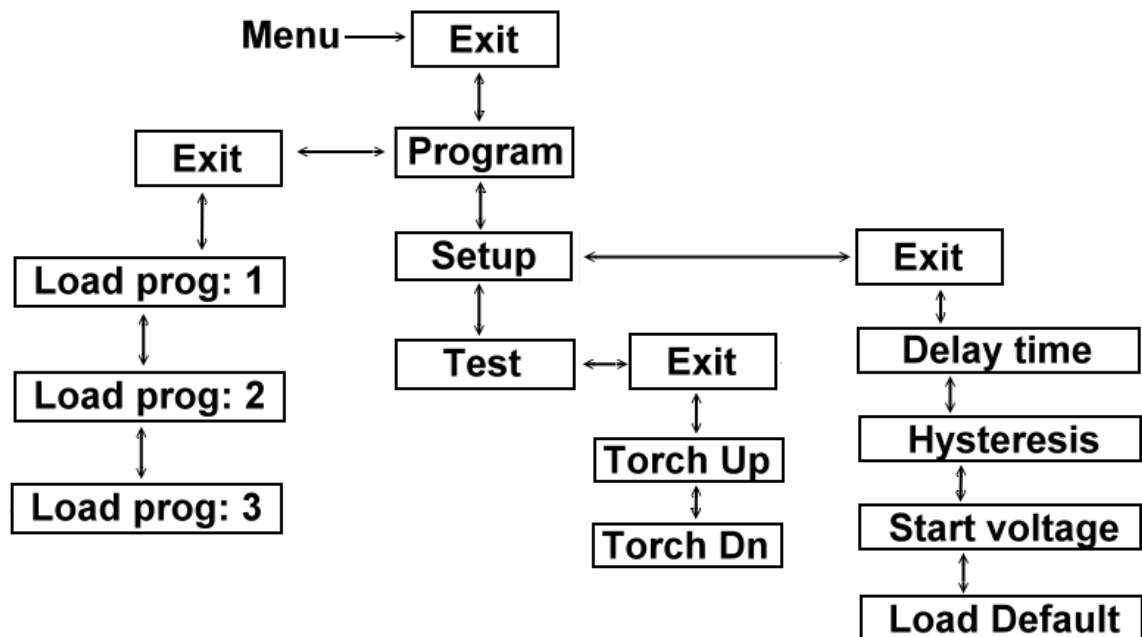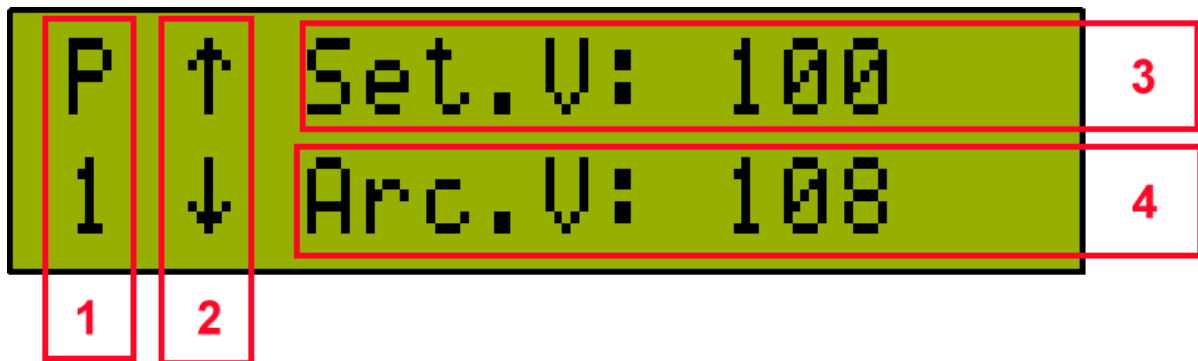

LCD screen

1. Shows the selected program
2. Shows Up or Down gesture arrow
3. Setup Voltage
4. Arc Voltage

Menu

- Exit > Returns to previous menu
- Program > Selects the preset program
- Setup > Edits the settings of the selected program

Setup

- Delay time > The delay time of the up and down output signals, when the system detects the main (cutting) arc, 0.1~19.9s.
- Hysteresis > The hysteresis voltage - a range in which the voltage is measured, in which there are signals controlling Up/Down, (+-1V ~ +-15V)

- Start Voltage > Value of the off load voltage detection in the plasma cutter - used to detect the main (cutting) arc: 50~300V.
- Load Default > Reset all programs to default (Restart required|)

Test

- Torch Up > Send 2 seconds Torch Up signal
- Torch Dn > Send 2 seconds Torch Down signal

Mehmet İbrahim: https://www.youtube.com/@MehmetIbrahim