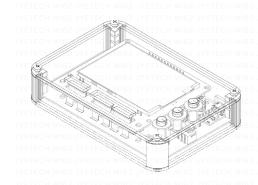
ASSEMBLY GUIDE (REV. 00) M162 LCR METER DIY KIT



MODEL

M162

MAIN: 109-16202-00B PCB VERSION ANALOG: 109-16201-00F

FIRMWARE 113-16202-060

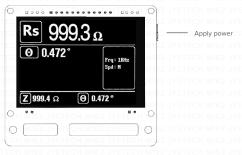
REQUIRED TOOLS

- 25W Soldering Iron
- Soldering Wire (Rosin-core Recommended)
- Digital Multimeter
- Screwdriver Philips #1
- Flush (wire) cutter
- Tweezers
- Micro-USB power cable

1 Getting Started

TEST THE MAIN BOARD

- Connect the USB Cable to the Micro-USB port on the Main Board and a USB power source.
- Ensure your M162 main board boots up correctly. When powered on, the LED (D1) will blink twice. The display will then go through two splash screens and enter into a state similar to the below illustration.
- The values of the numbers are random. Please ignore them and just ensure the display is normal.

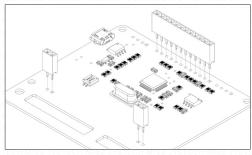


(PCB 109-16202-00B shown)

If your M162 main board does not power up, or powers up with a blank screen, please contact us at support@jyetech.com. Do not solder any parts onto the board if you encounter any issues as this will void the warranty.

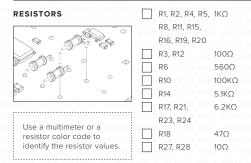
2 Main Board Assembly

STRIP SOCKETS

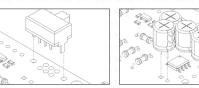


J4 12x1 strip socket J8, J9 2x1 strip socket

3 Analog Board Assembly



SLIDE SWITCH



SW4 SK-22D03T

C9, C10, C11, 100μF, 16V C12, C13

CAPACITORS

Ensure the polarity of the capacitors are installed correctly. The positive pole goes into the holes of the square pads.

PUSH BUTTONS

SW1, SW2, SW3

6.2x6.2x9.5 mm tact

PIN HEADERS



J5 12x1 pin header

J8, J9 2x1 pin header

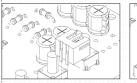
CONTACT ARMS



J13, J14, J15, J16, J17, J18

CONNECTOR (optional)

CHARGER BOARD (optional)



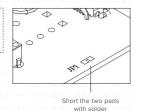
header, right-angled

J11 XH2.54 2-pin

BOB1 JYE118 battery charger breakout board (with 5x1 strip pin header)

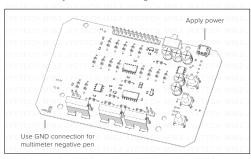
CLOSE JP1

(Note: skip this step if the battery charger board is installed.)



4 Verify Voltages

- 1 Apply 5V power supply via the micro-USB connector on the analog board.
- 2 Spot check the voltages on the board at the test points labeled to ensure they measure to the voltages in the chart below.

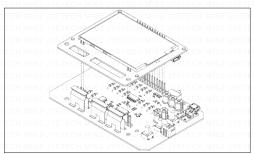


REFERENCE

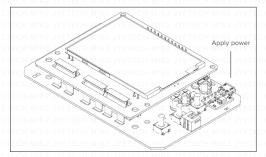
JIELEUH MIOZ.	JIELEUH WHOZ.	TELECH MIOZ.	MELECH MIOZ.
YETECH MI62 Test Points 62 YETECH MI62	YETECH MI62 JYETVoltage 52 JYETECH MI62		
	YETE Min _{M162}	Typical 52	_{УЕТЕ} Мах _{/162}
VETECH M162 V+ VETECH M162	3.60V	YETECH M162 . YETECH M162	5.50V
VS+ECH M162	3.60V H M162	YETECH M162 .	5.50VH M162
AV+ ECH M162	3.10V _{CH M162}	3.30V MI62	3.50V
VETECH M162	YETECH M162 .	YETECH M162 .	-2.50V M162
VS-ECH M162	YETECH M162 .	YETECH M162 .	-2.50V+ M162 J
AV- ECH M162	-2.20V	-2.00V	1.80V
√1 TECH M162 .	YETECH M162.	0.0VCH M162	YETECH M162 J
V2 _{TECH M162}	YETECH M162 .	0.0V _{CH M162}	YETECH M162 J
V3	YETECH M162 .	0.0V	YETECH M162 J VETECH M162
V4TECH M162	1.40VCH M162	1.65VCH M162	1.80V:H M162

5 Quick Test

1 Attach the main board to the analog board.



2 Apply power supply via the micro-USB connector on the analog board and slide the power switch to ON position.



- 3 Once the device starts up, hold down RCL button to bring up the menu. Select the "Default" option to set all the parameters to their default values
- 4 Test measurement with the provided resistors (1 Ω & 1M Ω), capacitor (0.1 μ F), and inductor (1mH), or with your own components.

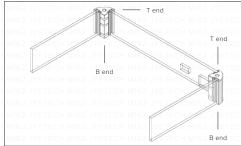
Note: The provided resistors are 1% tolerance. The capacitor and inductor tolerance can be 10% or higher. If the measured values are away from their labeled value they might not reflect a problem of the meter. Further confirmation is required.

6 Enclosure Assembly

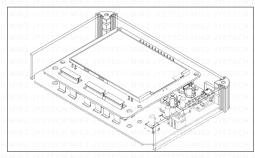
1 Identify the ends of the standoffs.



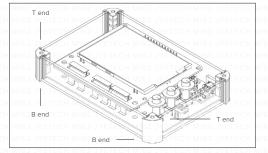
Assemble the two side pieces and back piece. Ensure the standoffs are at the correct orientation.



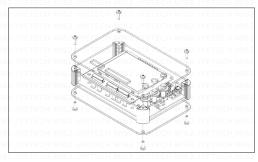
Insert the assembled main board-analog board with the analog board fitted into the standoff slots near the bottom ends.



4 Assemble the front piece. Ensure the standoffs are at the corret orientation.



6 Assemble the top and bottom pieces with screws. Remember to attach the 3 caps to the pushbuttons before securing the top piece.



This is how your M126 LCR Meter should look once enclosure assembly is complete:

