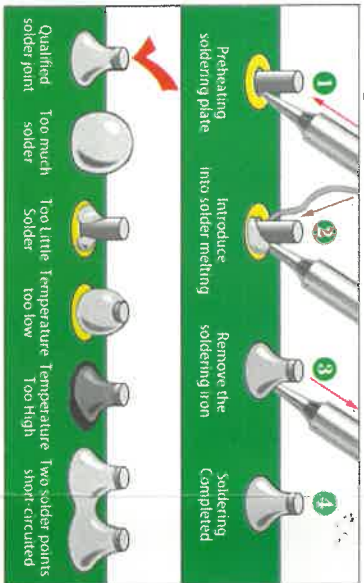


DIY Calculator Kit Installation Manual (CAI-105)

Soldering Method:



Parts List:

	1N4148 X 2 Orange Orange Brown Gold or Orange Orange Black Brown Brown		CR2032 Battery Holder X 2
	330Ω X 1 Brown Black Red Gold or Brown Black Black Brown Brown		12X12 Tactile Switch X 20
	1KΩ X 1 Brown Black Orange Gold or Brown Brown Black Red Brown		Blue Keycap X 20
	10KΩ X 3 Black Red Brown		Transparent Keypad Cover X 20
	16-pin male header X 1		8mm Self-Tapping Screw X 4
	16-pin female header X 1		7mm Self-Tapping Screw X 8
	104 Ceramic Capacitor X 1		1602 LCD Screen X 1
	7550 X 1		Circuit Board X 1
	9013 X 1		Upper Shell X 1
	8550 X 1		Lower Shell X 1
	Microcontroller X 1		
	IC Socket X 1		

	1	Install 5pcs resistors and 2pcs 4148 diodes. Resistors have no polarity; the black ring on the diode indicates the negative side.
	2	Install the CR2032 battery holder as shown in the diagram.
	3	Install the IC socket and 104 ceramic capacitor, ensuring proper alignment.
	4	Install the 16pin female header. Note that the soldering temperature should not be too high, and the soldering time should not be too long, otherwise it will cause damage.
	5	Install the microcontroller, align it with the notch, and bend the pins slightly inward.
	6	Install the 9013, 8550, and 7550 transistors as shown in the diagram. Ensure correct orientation and placement.
	7	Install the tact switch.
	8	Install the 16-pin male header.
	9	Press the male header inward and bend it at an angle as shown.
	10	Bend it inward at an angle of approximately 30 degrees as shown.
	11	Install the 1602 LCD screen onto the female header.
	12	Cut the key numbers into small pieces.
	13	Insert the key numbers into the middle of the keycaps.
	14	Place the labeled keycaps onto their respective positions.
	15	Insert the button cell battery with the positive side facing the spring. Perform a power test.
	16	Carefully align and insert the keys into the casing holes.
	17	Secure the circuit board with short screws.
	18	Use tweezers to secure the short screws into the screen's screw holes. If it remains stable, skipping this step is acceptable.
	19	As shown in the diagram, use four short screws to secure the display screen.
	20	Use four long screws to secure the bottom shell of the casing.