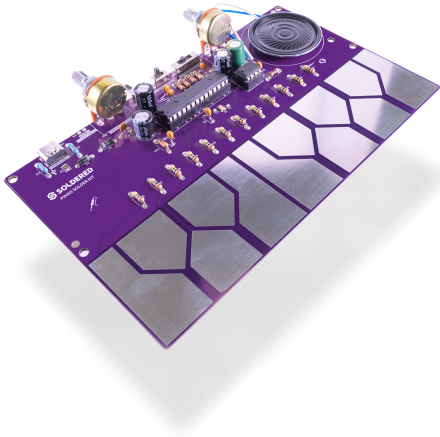




PIANO SOLDER KIT



Weight 50 g

DESCRIPTION

Learn the fundamentals of electronics and soldering while creating your own musical instrument. Perfect for beginners wanting to combine soldering education with entertainment, this kit teaches essential soldering techniques while building a fully functional capacitive touch piano. With 12 touch-sensitive keys, volume control, and multiple octave settings, you'll create a musical instrument that demonstrates the magic of capacitive sensing technology. Take a look at our complete documentation for step by step assembly.

Built around the Atmega328P microcontroller, this kit introduces you to both hardware assembly and embedded programming concepts. The 12 capacitive touch sensors respond to fingers without mechanical switches, demonstrating touch interface technology. The first potentiometer provides volume adjustment, while the other one provides arpeggio speed control. The USB-C power connection ensures modern connectivity and power delivery for extended musical sessions.

This kit perfectly balances learning with entertainment, teaching essential electronics assembly skills while creating an amusing device. The capacitive touch technology introduces modern sensor concepts, while the code pre-programmed on the AtMega328p microcontroller is available to inspect on GitHub and provides insight into how embedded systems work. Perfect for STEM classrooms, maker spaces, or personal skill development. You'll learn valuable soldering techniques while building something musical and interactive.

This set includes:

- PCB: Professional-quality circuit board with clear component markings



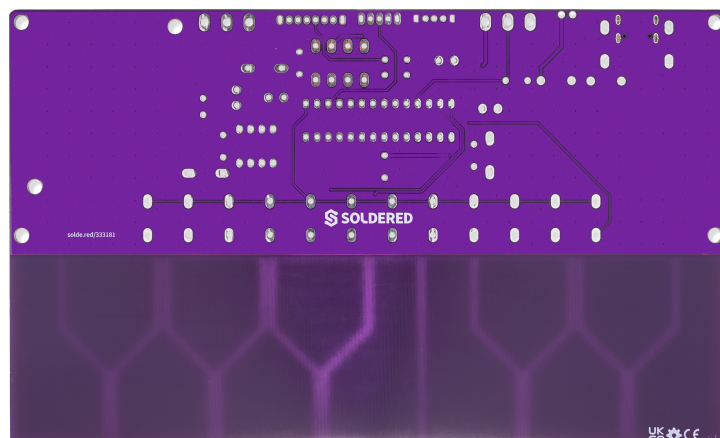
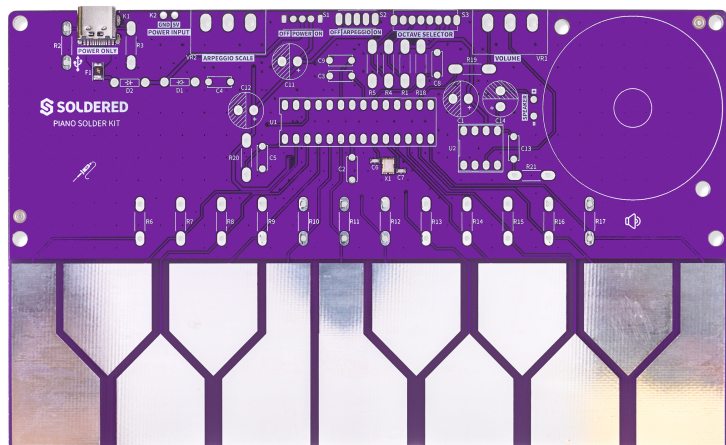
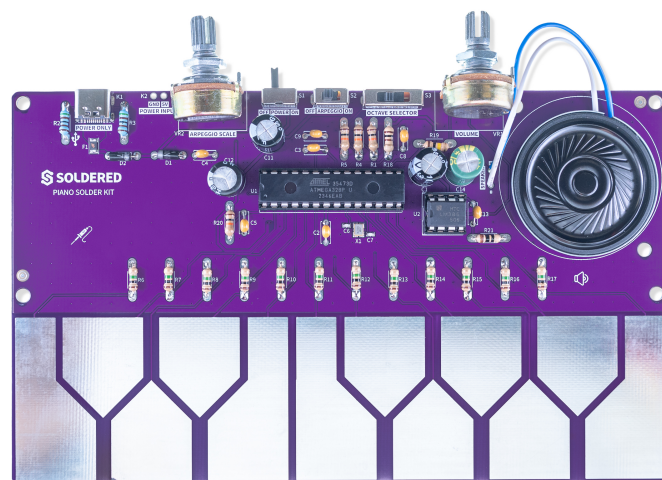
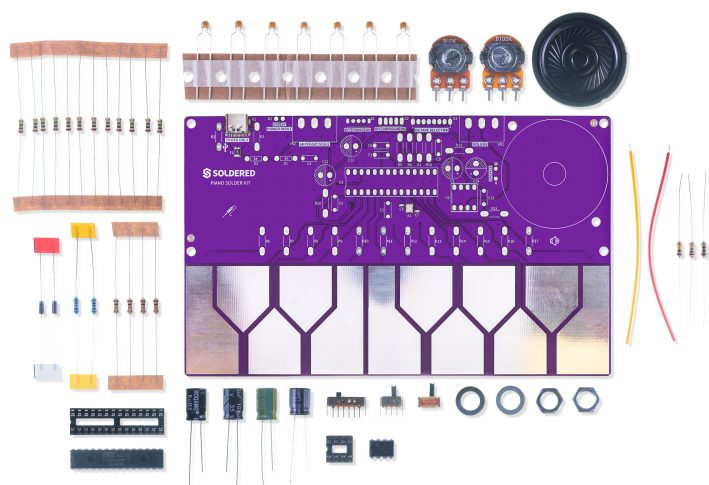
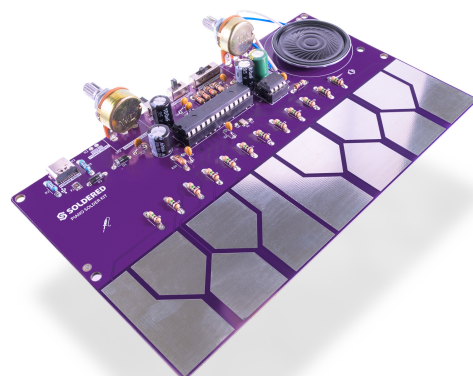
- LM386 Audio Amplifier IC for optimal speaker power
- Atmega328P: Pre-programmed microcontroller ready for assembly
- 2 Potentiometers: Volume and arpeggio speed controls
- Switches: Arpeggio mode ON/OFF, octave selector
- 8 ohm Speaker included - easily solder on and listen to your piano
- USB-C Connector: Modern power input interface
- 12 Touch Sensors: Capacitive touch interface components
- Resistors, capacitors, diodes and other various electronic components to practice soldering

FEATURES

- 12 Capacitive Touch Keys: Modern touch-sensitive piano interface
- 4 Octave Range: Octave selector for full musical expression
- Volume Control: Potentiometer for adjustable sound levels
- Arpeggio Mode: Speed control via potentiometer
- Capacitive Touch Sensors: Modern touch interface technology
- Through-Hole Soldering: Essential electronics assembly skills
- Analog Controls: Potentiometer integration and control concepts
- USB-C Power: 5V power input connection, and additionally available +5V header pins for external power supply
- Provided 8 ohm speaker which can be connected to the speaker output for instant sound response
- ON/OFF Switch: Power control and circuit protection

USEFUL LINKS

OTHER IMAGES



Weight

50 g