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› WWZMDiB CH341A EEPROM BIOS Programmer Instruction Manual

## WWZMDiB Programmer

# WWZMDiB CH341A EEPROM BIOS Programmer Instruction Manual

## 1. INTRODUCTION

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This manual provides instructions for the WWZMDiB CH341A EEPROM BIOS Programmer. This device is designed for backing up, erasing, programming, and calibrating various software and is compatible with most 24 and 25 series SOP8 and SOP16 chips. It supports both CH341A and CH341B chips.

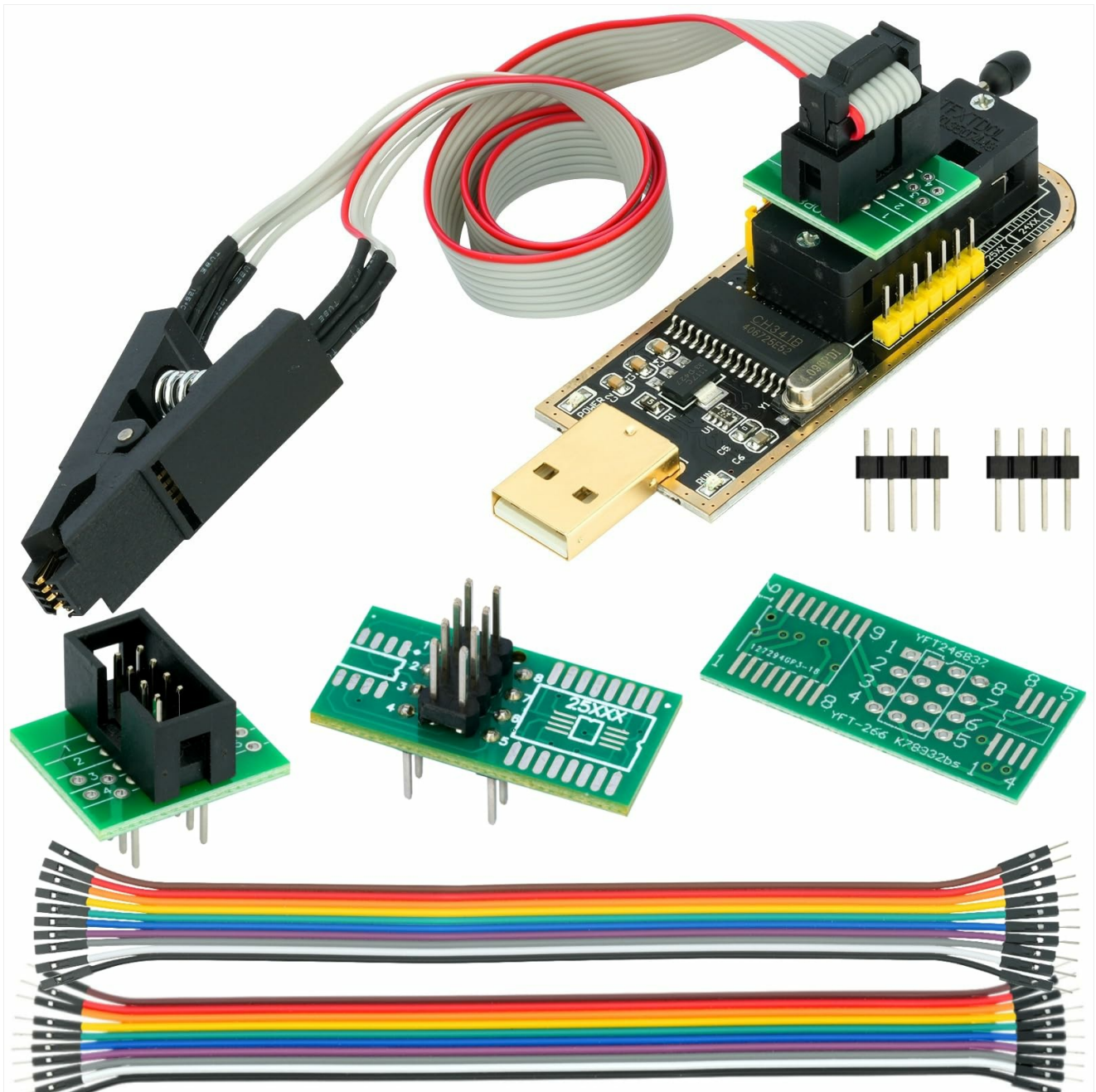


Image 1.1: Overview of the WWZMDIB CH341A EEPROM BIOS Programmer kit.

## 2. WHAT'S IN THE BOX

The WWZMDIB CH341A EEPROM BIOS Programmer kit typically includes the following components:

- IC Test Clip
- USB Programmer (CH341A module)
- Converter (likely SOP8/SOP16 conversion plate)
- DuPont wire



# Important Notices

**1. Back up important data multiple times to prevent accidental loss.**

**2. The BIOS chip on the motherboard must be read and written when the power is off. Do not operate with power on.**

**3. Please confirm the chip voltage to avoid burning the chip.  
(The default is 5V, 3.3V requires flying wires)**



## Common Problems and Solutions

### Chip Unrecognized

**1. Check for loose connections and correct pin assignments.**

**2. Reduce the clock frequency (high frequencies may cause signal instability).**

**3. To avoid USB 3.0 compatibility issues on your computer, prioritize USB 2.0.**

### Read/Write Failures

**1. Confirm the chip is not locked (some EEPROMs have a write-protect pin that needs to be connected to GND to unlock).**

**2. Re-erase the chip (residual data may cause write errors).**

**3. Reinstall the driver or change the programming software version.**

**4. Check the chip for damage (you can replace another chip to test).**

### Device Unable to Boot After BIOS Flashing

**1. Confirm that the firmware you are flashing matches the device model (firmware for different models may be incompatible).**

**2. Rewrite the original data with the backup to restore the factory settings.**

Image 2.1: Contents of the WWZMDIB CH341A Programmer package.

## 3. IMPORTANT NOTICES

Adhere to the following important notices to ensure safe and correct operation of the programmer:

1. Back up important data multiple times to prevent accidental loss.
2. The BIOS chip on the motherboard must be read and written when the power is off. Do not operate with power on.
3. Confirm the chip voltage to avoid burning the chip. The default voltage is 5V; 3.3V operation requires specific wiring (flying wires).

# 25 Series Support List

AMIC					ES				
A25L512	A25L05P	A25L10P	A25L010	A25L020	ES25P10	ES25P20	ES25M40A	ES25M40	ES25P40
A25L20P	A25L40P	A25L040	A25L080	A25L80P	ES25M80	ES25M80A	ES25P80	ES25M16	ES25M16A
A25L016	A25L16P	A25L032			ES25P16	ES25P32			
ATMEL					ESMT				
AT25F512	AT25F512B	AT25F512A	AT25FS010	AT25F1024	F25L04UA	F25L004A	F25L08PA	F25L008A	F25L016A
AT25F1024A	AT25F2048	AT25DF021	AT25F4096	AT25FS040	F25L16PA	F25L32QA	F25L32PA		
AT25DF041A	AT26F004	AT26DF081A	AT25DF161	AT26DF161					
AT26DF161A	AT25DF321A	AT26DF321	AT25DF321	AT25DF641					
COMMON					GIGADEVICE				
25X005	25X05	25X10	25X20	25X40	GD25Q512	GD25Q10	GD25Q20	GD25F40	GD25D40
25X80	25X16	25X32	25X64	25X128	GD25Q80	GD25D80	GD25T80	GD25F80	GD25Q16
25X256	25X	512	25X1024	25X2048	GD25Q32	GD25Q64	GD25Q128		
EON					MXIC				
EN25F05	EN25P05	EN25LF05	EN25F10	EN25LF10	MX25V512	MX25L512	MX25L1005	MX25L2005	MX25L8035
EN25D10	EN25P10	EN25F20	EN25D20	EN25LF20	MX25L4005A	MX25V4035	MX25V4005	MX25V8005	MX25L8005
EN25F40	EN25D40	EN25LF40	EN25Q80	EN25D80	MX25L3225D	MX25L3205D	MX25L3206E	MX25L6405D	MX25L6455E
EN25F80	EN25P80	EN25T80	EN25B16T	EN25T16	MX25L6408D	MX25L6406E	MX25L6445E	MX25L12805D	MX25L12845E
EN25B16	EN25D16	EN25F16	EN25Q16	EN25P32					
EN25Q32	EN25F32	EN25B32	EN25B32T	EN25Q64					
EN25B64	EN25F64	EN25B64T	EN25F128	EN25Q128					
NEXFLASH					ST				
NX25P10	NX25P20	NX25P40	NX25P80	NX25P16	M25P05A	M25PE10	M25P10A	M25P20	M25PE20
NX25P32					M25PE40	M25P40	M25PE80	M25P80	M25PX80
					M25PX16	M25P16	M25PE16	M25P32	M25PE32
					M25PX32	M25PX64	M25P64	M25PE64	M25P128
					KH				
					KH25L8036D				

# 24 Series Support List

ATMEL					MICROCHIP				
AT24C01B	AT24C01	AT24C01A	AT24C02	AT24C02A	MIC24LC014	MIC24AA01	MIC24AA014	MIC24LC01B	MIC24LC02B
AT24C02B	AT24C04B	AT24C04	AT24C04A	AT24C08A	MIC24AA02	MIC24C02C	MIC24AA025	MIC24AA04	MIC24LC04B
AT24C08B	AT24C08	AT24C16	AT24C16A	AT24C16B	MIC24LC024	MIC24AA024	MIC24LC025	MIC24LC08B	MIC24AA08<
AT24C32B	AT24C32A	AT24C32	AT24C64	AT24C64A	MIC24LC16B	MIC24AA16	MIC24LC32	MIC24AA32	MIC24LC64
AT24C64B	AT24C128	AT24C128A	AT24C128B	AT24C256B	MIC24FC64	MIC24AA64	MIC24FC128	MIC24AA128	MIC24LC128
AT24C256	AT24C256A	AT24C512B	AT24C512A	AT24C512	MIC24AA256	MIC24LC256	MIC24FC256	MIC24AA512	MIC24LC512
AT24C1024	AT24C1024A	AT24C1024B			MIC24FC512	MIC24AA1024			

Image 3.1: Important operational guidelines for the programmer.

## 4. SETUP AND CONFIGURATION

### 4.1. 3.3V Power Supply Setting Method

For chips requiring 3.3V, specific modifications are necessary:

- Connect pins 28 and 9 to 3.3V.
- Pin 28 must be disconnected from its original 5V supply. Use insulating tape to ensure proper isolation.



Image 4.1: Instructions for configuring the programmer for 3.3V operation.

## 4.2. Jumper Cap Interface Conversion

The CH341A programmer can convert a USB port to a TTL serial port. Configure the jumper caps for the desired function:

- For programming, set the jumper cap to positions 1-2.
- For TTL serial communication, set the jumper cap to positions 2-3.
- Ensure correct pin assignments for 24 Series and 25 Series chips as indicated on the board. Pay attention to the pin order (1-8).

# 3.3V power supply setting method

**Connect pins 28 and 9 to 3.3V.**

**(See the wiring diagram and precautions below)**

CH341B/A			
1	ACT#	VCC	28
2	RST#	UT#	27
3	AS#	RST#	26
4	DS#	WR#	25
5	ERR#	SCL	24
6	PENP	SDA	23
7	INT#	D7	22
8	SLCT	D6	21
9	V3	D5	20
10	UD+	D4	19
11	UD-	D3	18
12	GND	D2	17
13	X1	D1	16
14	X0	D0	15

↙

**EPP/MEM**

**Note that pin 28 must be disconnected from the original 5V supply  
(use insulating tape to disconnect)**

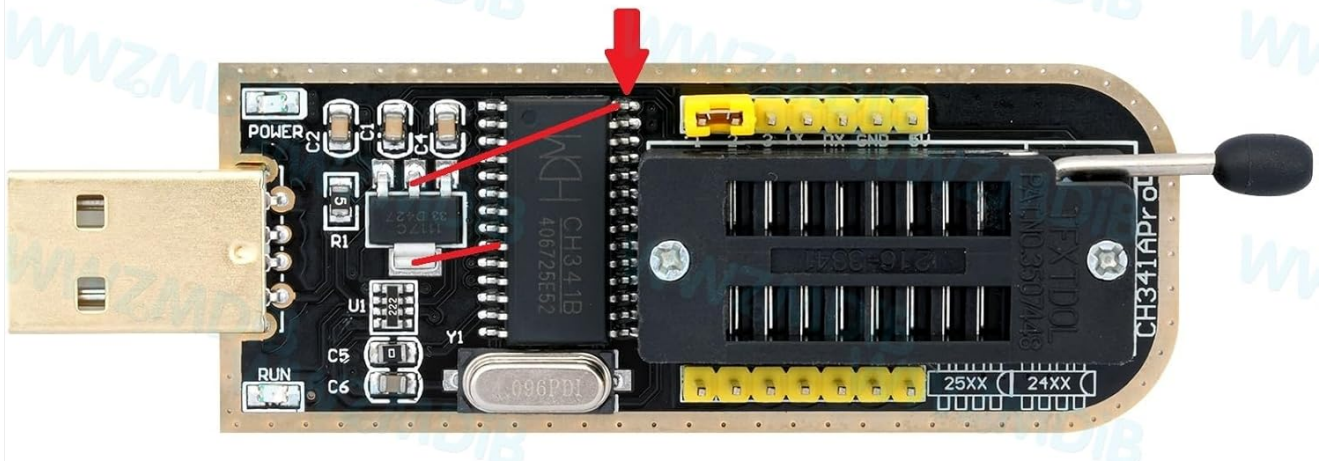


Image 4.2: Jumper cap settings for programming and TTL serial port conversion.

## 4.3. Connecting the SOIC8 Clip

The SOIC8 test clip is used for in-circuit programming without soldering:

- The cable length of the clip is approximately 13.77 inches (35 cm).
- It is designed for 1.27mm pitch SOP8 chips.
- The red cable on the clip indicates pin 1 for correct positioning on the chip.

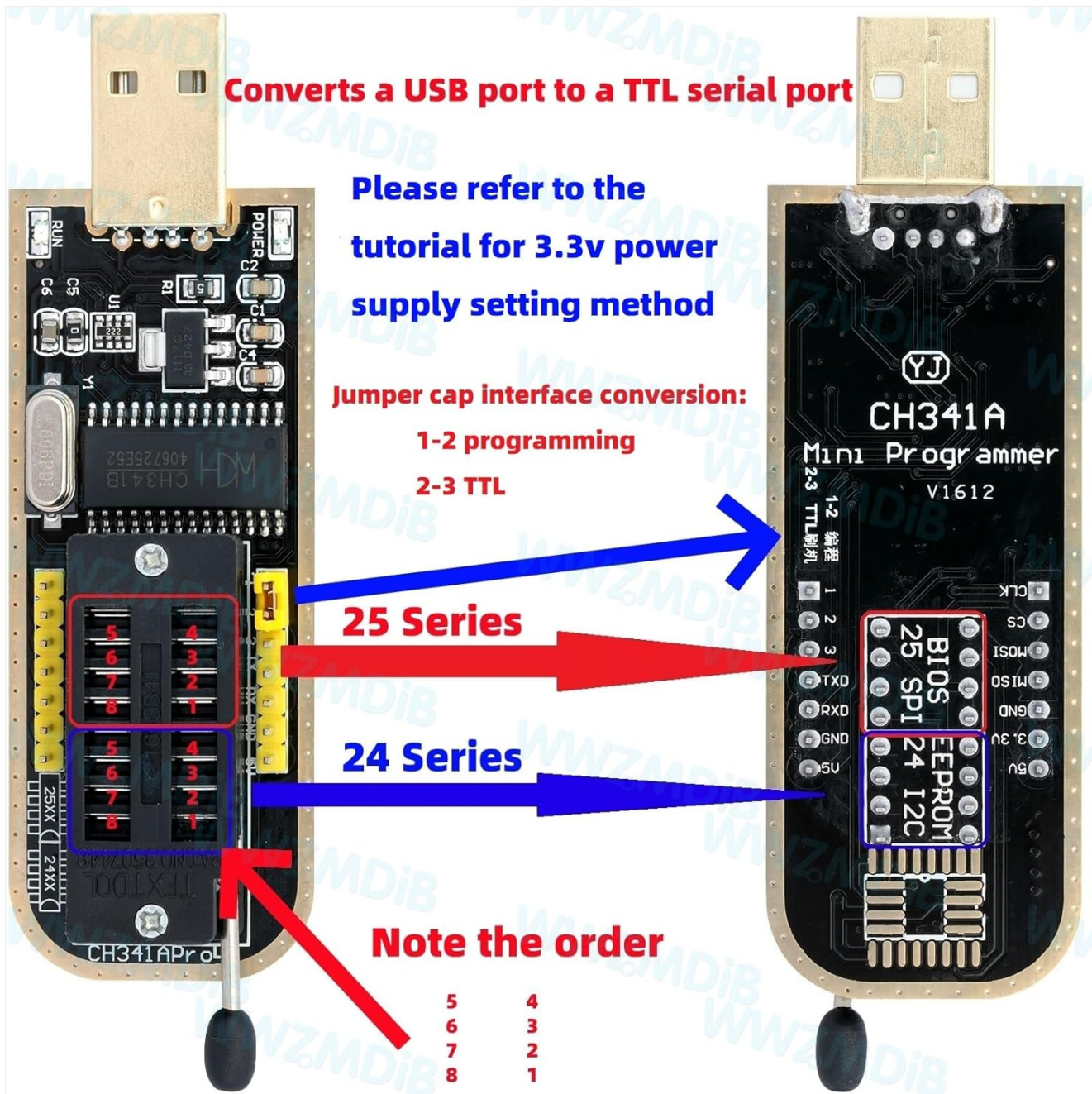


Image 4.3: Details of the SOIC8 test clip for chip connection.

## 5. OPERATING INSTRUCTIONS

The CH341A programmer facilitates various operations on EEPROM and BIOS chips. Ensure the chip voltage is confirmed (3.3V or 5V) before proceeding to prevent damage.

1. **Connect the Programmer:** Insert the CH341A programmer into a USB port on your computer.
2. **Connect the Chip:** Use the SOIC8 clip or appropriate conversion plate to connect the target chip to the programmer. Ensure the red cable on the clip aligns with pin 1 of the chip. No soldering is required for the clip connection.
3. **Install Drivers and Software:** Install the necessary drivers for the CH341A and compatible programming software (e.g., AsProgrammer, CH341A Programmer software).
4. **Select Chip Type:** In the programming software, select the correct chip manufacturer and model (e.g., 24 Series, 25 Series).
5. **Read Chip Data:** Before any write operation, always read the existing data from the chip and save it as a backup file. This is crucial for recovery in case of errors.

6. **Erase Chip:** If writing new data, perform an erase operation on the chip as required by the software.
7. **Program Chip:** Load the desired firmware or data file into the software and initiate the programming process.
8. **Verify Data:** After programming, verify the written data against the source file to ensure accuracy.

## 6. SUPPORTED CHIPS

The WWZMDiB CH341A programmer supports a wide range of 24 and 25 series EEPROM and Flash chips. Refer to the image below for a detailed list of compatible chips from various manufacturers.

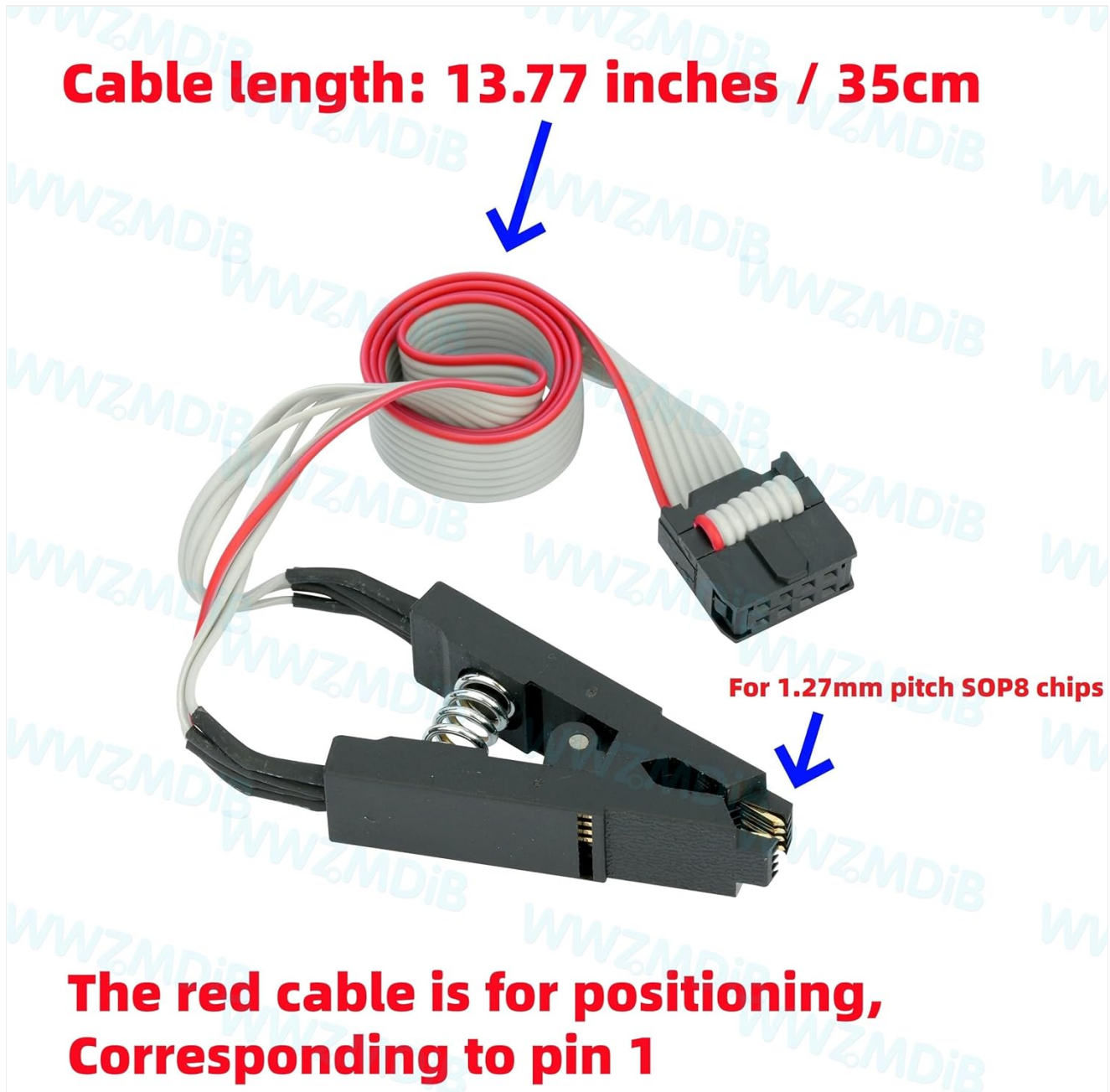


Image 6.1: Comprehensive list of supported 25 Series and 24 Series chips.

## 7. TROUBLESHOOTING

This section addresses common issues encountered during the use of the CH341A programmer.

### 7.1. Chip Unrecognized

- Check for loose connections and ensure correct pin assignments.

- Reduce the clock frequency in the software, as high frequencies can cause signal instability.
- Prioritize using a USB 2.0 port to avoid compatibility issues that may arise with USB 3.0.

## 7.2. Read/Write Failures

- Confirm that the chip is not locked. Some EEPROMs have a write-protect pin that needs to be connected to GND to unlock.
- Re-erase the chip. Residual data can cause write errors.
- Reinstall the driver or try a different version of the programming software.
- Check the chip for physical damage. If possible, test with another chip.

## 7.3. Device Unable to Boot After BIOS Flashing

- Confirm that the firmware being flashed matches the device model. Incompatible firmware can prevent booting.
- Rewrite the original data using the backup created before flashing to restore factory settings.

## 8. SPECIFICATIONS

<b>Brand</b>	WWZMDiB
<b>Item Model Number</b>	Programmer
<b>Operating System Compatibility</b>	Windows 10 (and likely other Windows versions)
<b>Item Weight</b>	2.08 ounces (0.06 Kilograms)
<b>Package Dimensions</b>	5.28 x 2.6 x 0.91 inches
<b>Hardware Interface</b>	USB
<b>Compatible Devices</b>	Multiple Devices (24/25 series SOP8/SOP16 chips)

## 9. MAINTENANCE

To ensure the longevity and proper functioning of your WWZMDIB CH341A EEPROM BIOS Programmer, follow these maintenance guidelines:

- **Storage:** Store the programmer and its accessories in a dry, dust-free environment when not in use.
- **Handling:** Handle the device with care. Avoid dropping or subjecting it to physical shocks, as this can damage internal components or connections, especially the USB-A connector's welding spots.
- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or solvents.
- **Connections:** Regularly inspect the SOIC8 clip and conversion plates for any signs of wear or damage. Ensure the pins are clean and straight for reliable contact.

## 10. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the documentation provided with your purchase or contact WWZMDiB customer service through the platform where the product was acquired. Ensure you retain your proof of purchase for any warranty claims.

