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GODIYMODULES Pro-341A-001

CH341A Programmer V1.7 User Manual

Brand: GODIYMODULES | Model: Pro-341A-001

1. Product Overview

The CH341A Programmer V1.7 is a versatile device designed for reading and writing various types of chips, including 24, 25/26, 93, 45, and 95 series. It features integrated level conversion, supporting 5V, 3.3V, 2.5V, and 1.8V chips directly, and includes an infrared code measurement module. This programmer is also capable of reading and writing KB9010, KB9012, KB9016, KB9018, and KB9022 EC data. The accompanying software is open-source, allowing for custom chip type additions.

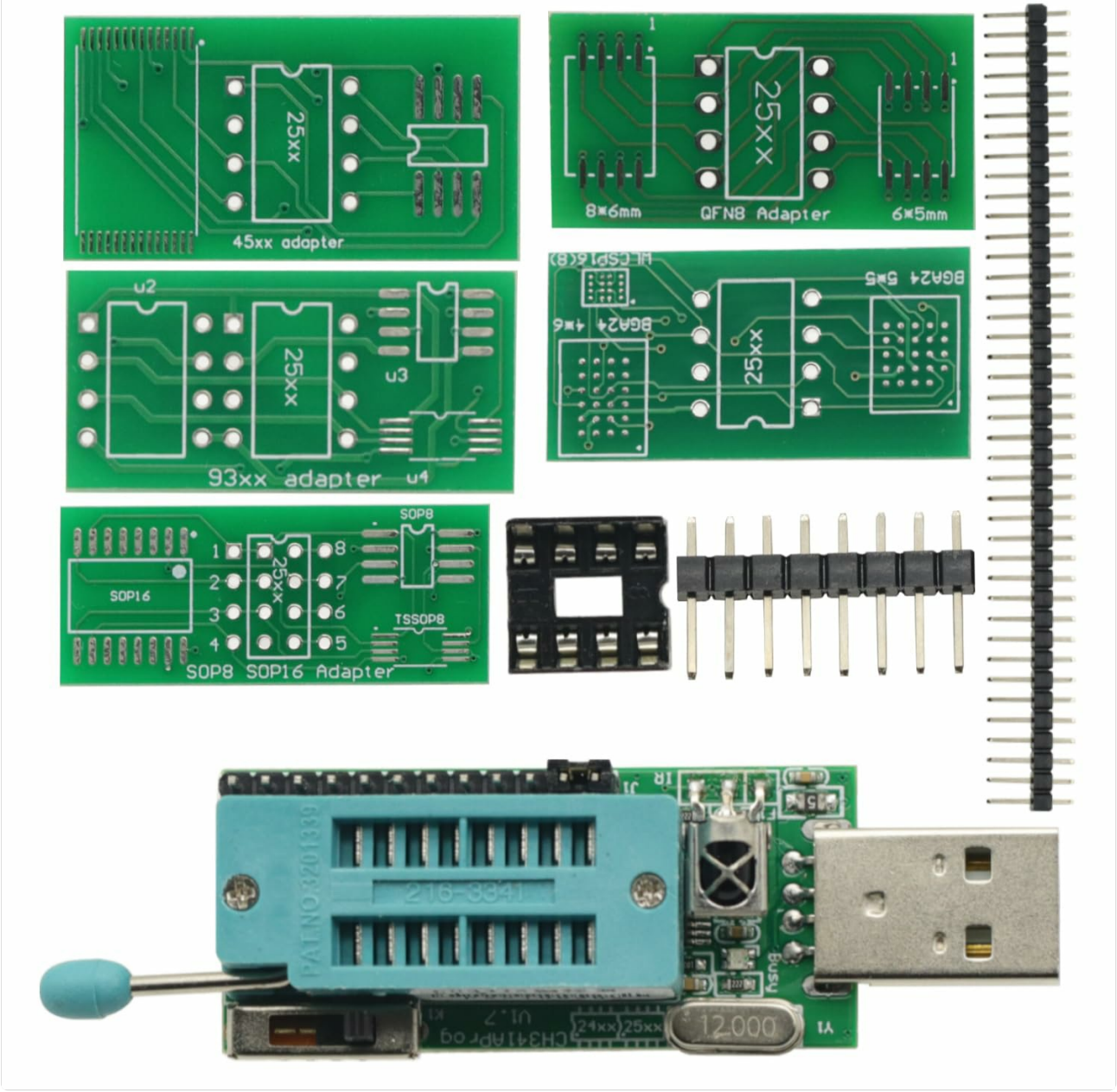

Figure 1: CH341A Programmer V1.7 with included adapters for different chip types.

2. Setup and Installation

Before using the CH341A Programmer, it is essential to install the necessary drivers and software. Refer to the official product documentation or the provided User Manual (PDF) for detailed instructions on driver installation.

2.1 Connecting the Programmer

1. Connect the CH341A Programmer to your computer's USB port. The device is powered via USB.
2. Ensure the appropriate adapter (e.g., SOP8, SOP16, QFN8, BGA24) is selected and connected for the specific chip you intend to program.
3. Insert the chip into the programmer's locking seat or connect it via a clip, ensuring correct orientation and secure contact.

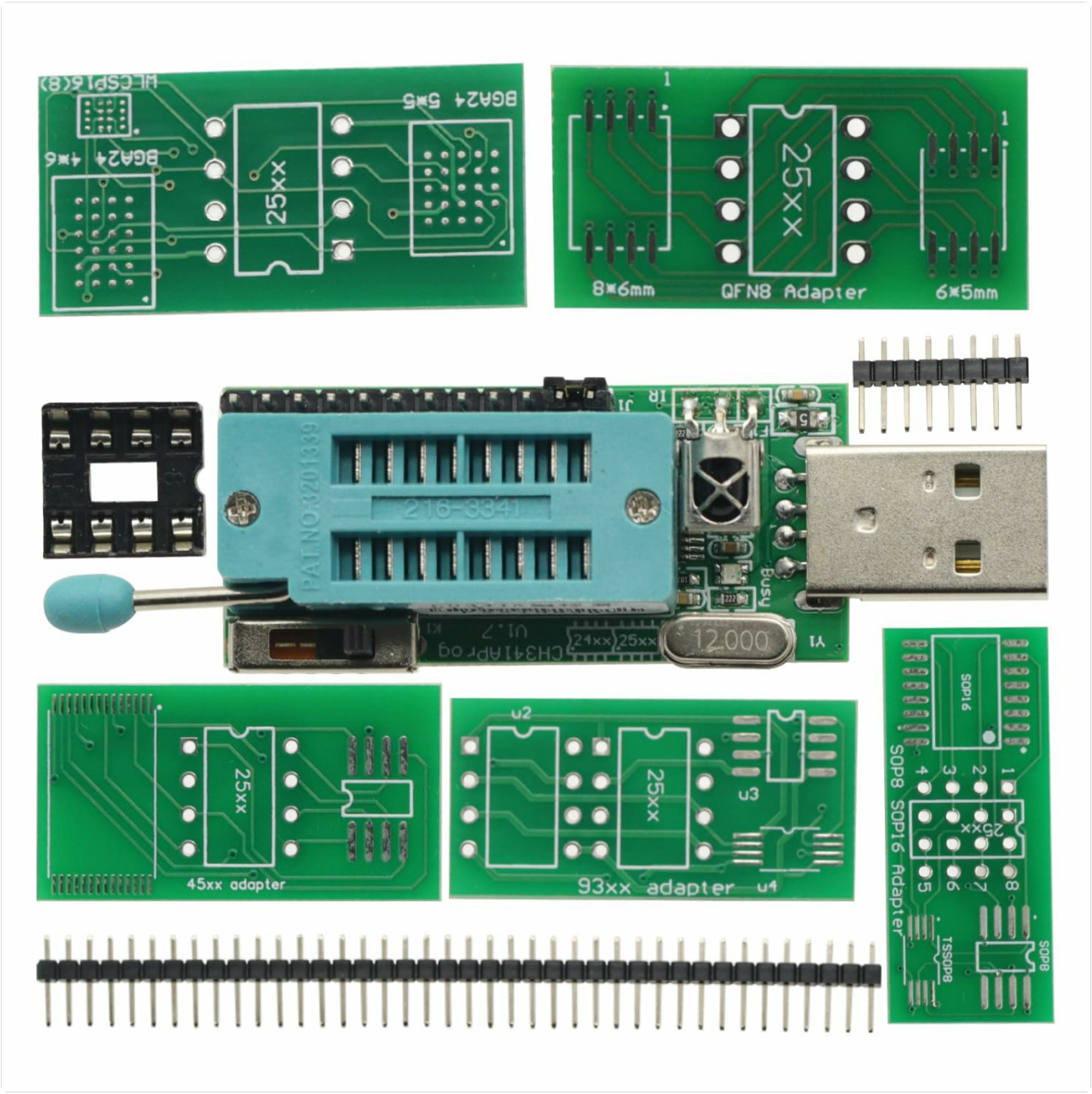

Figure 2: Layout of the CH341A Programmer and its various adapters.

3. Operating Instructions

The CH341A Programmer supports a wide range of chips and functionalities. The software provides an interface for identifying, reading, writing, and erasing chip data.

3.1 Key Features

- **Integrated Level Conversion:** Directly read and write 5V, 3.3V, 2.5V, and 1.8V chips without external converters.
- **Wide Chip Support:** Compatible with 24, 25/26, 93, 45, and 95 series chips, including W25Q64FW, W25Q128FW, GD25LQ64, and KB90xx EC data.
- **Infrared Code Measurement:** Integrated module for infrared code measurement.
- **TTL Support:** TTL output supports 1.8V level, suitable for specialized applications.
- **Status Lights:** Read and write status lights, along with TTL status lights, provide visual feedback.

- **Software Flexibility:** Open-source software allows users to add new chip types.



Figure 3: Detailed view of the CH341A Programmer with key features labeled.

3.2 Software Interface

The programmer operates via a dedicated software application. This software allows you to identify the connected chip, read its contents, write new data, and perform erase operations. Ensure the correct chip type is selected in the software for proper operation.

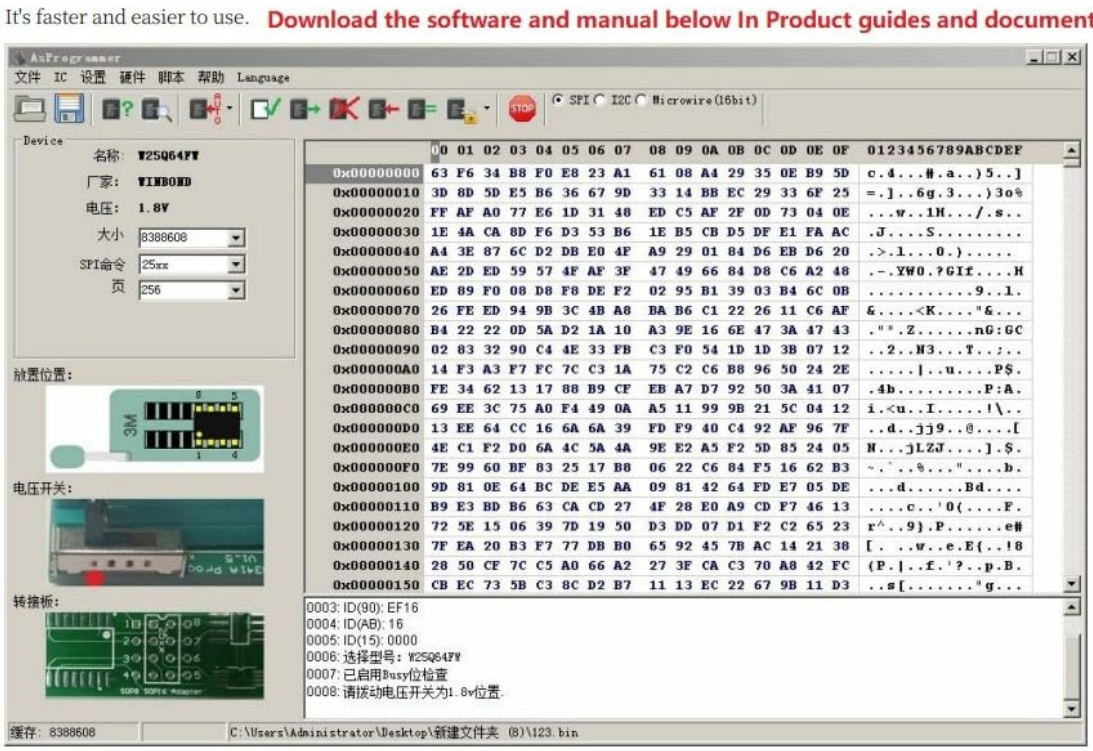

Figure 4: Screenshot of the CH341A Programmer software interface, showing chip identification and data display.

4. Maintenance

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

- Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the programmer in a dry environment, away from extreme temperatures and humidity.
- Avoid exposing the device to static electricity, which can damage sensitive electronic components.
- Handle the programmer and its adapters with care to prevent physical damage to connectors and pins.

5. Troubleshooting

This section addresses common issues encountered when using the CH341A Programmer, particularly when attempting to read or write chips while they are still on the circuit board (in-circuit programming).

5.1 Common Problems and Solutions

Many issues with in-circuit programming stem from circuit interference or power supply problems. The simplest and most reliable solution for persistent issues is to **remove the chip from the board to read and write it directly**.

Problem 1: Read out empty or garbled data (e.g., FFFFFF)

Cause: The software fails to identify the chip ID, indicating a communication issue or an inability to properly access the chip.
Troubleshooting:

- Verify the power supply voltage to the chip.
- Check if communication pins are stuck at a certain level or if relevant pin circuits are disconnected.
- Ensure the chip is correctly seated in the socket or clip.

Problem 2: Chip ID recognized, but read/write operations are not normal (e.g., inconsistent data, checksum errors)

Cause: Data integrity issues during read/write, often due to unstable communication or interference.
Troubleshooting:

- Check the power supply voltage.
- Ensure communication pin levels are not being altered by external circuits.
- Verify if the WP (Write Protect) pin is pulled down correctly.

Problem 3: Inconsistent read/write behavior (sometimes works, sometimes doesn't)

Cause: Instability in the board's read/write process, often due to external circuit interference on communication pins.
Troubleshooting:

- Inspect the supply voltage for fluctuations.
- Examine communication pin circuits for interference or disconnections.

Problem 4: Some boards allow direct clip read/write, others do not

Cause: Differences in board circuit design lead to varying levels of interference. Boards designed with brush interfaces often account for interference, making them more compatible with in-circuit programming.
Troubleshooting:

- Check the supply voltage.
- Assess if communication pin levels are being affected or if relevant pin circuits need to be disconnected.

5.2 Underlying Causes of In-Circuit Programming Failure

The primary reasons for in-circuit programming difficulties are:

1. **Insufficient Power Supply:** The board's power supply may not be sufficient to power both the chip and the programmer during operation, leading to voltage drops or instability. Consider using an external power

supply for the board if needed.

2. **Communication Line Occupation:** Other components on the board (e.g., CPU, external circuits) may be actively using or interfering with the communication lines (CLK, MISO, MOSI, CS) required by the programmer. This can prevent the programmer from establishing stable communication with the chip. Disconnecting interfering components or using series resistors on communication lines can help.

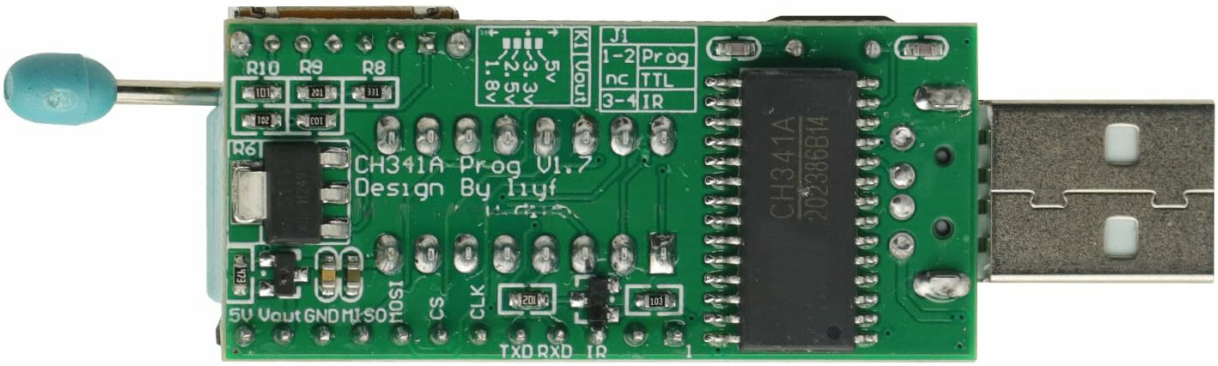

Figure 5: Textual guide detailing various troubleshooting scenarios for the CH341A Programmer.

6. Specifications

Feature	Detail
Product Dimensions	2.54 x 0.87 x 0.59 inches
Item Weight	1.13 ounces

Model Number	Pro-341A-001
Manufacturer	GODIYMODULES
ASIN	B0D9XQ4YBV
Date First Available	July 23, 2024

7. Support and Documentation

For further assistance, driver downloads, or detailed technical information, please refer to the official User Manual (PDF) provided with the product or available online. This manual contains comprehensive instructions and software drivers.

User Manual (PDF): Download User Manual

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