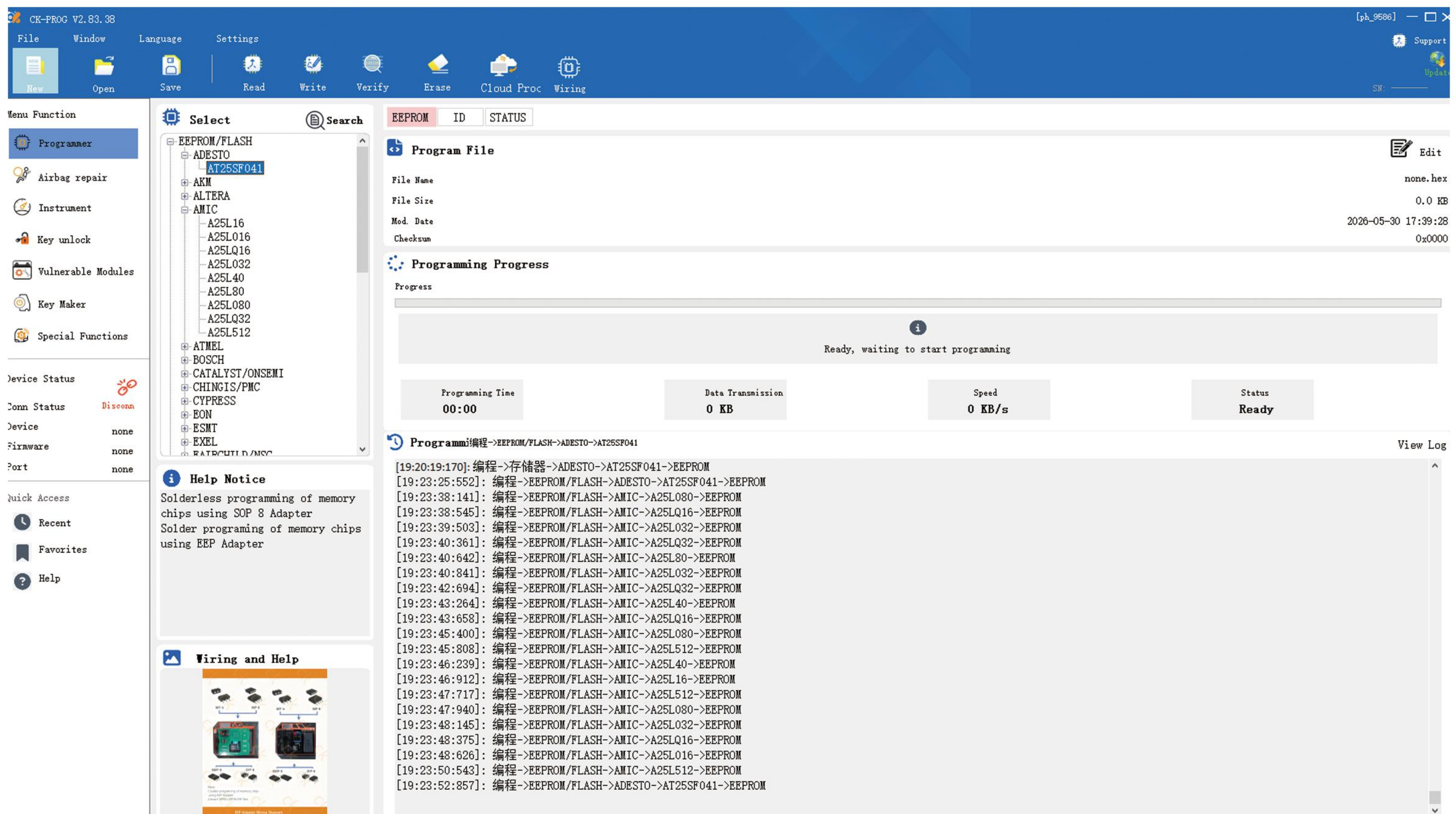


Software Introduction & Operations

Introduction to Single-Chip Microcomputer

This MCU tool reads, flashes and repairs mainstream vehicle MCUs for automotive repair. It supports data backup, fault fix and module cloning for key ECUs



Software Usage

Select Programming on the left, pick MCU and search for the chip model.

Double-click the highlighted entry or click Wiring Help to view the wiring diagram.

After device connection, use the functions below:

Read: One-click to read and locally back up MCU data & programs, for module cloning and repair.

Write: Flash repaired/cloned data or matching programs to the MCU for module reuse and ECU programming.

Verify: Check data integrity to avoid errors and module damage.

Erase: Clear MCU storage for new programming or unlock encrypted chips.

Introduction & Operation

Anti-theft computer

This module handles data read/write, repair and matching for vehicle anti-theft control units. It features D-FLASH, P-FLASH, CONFIG and other functions to ensure safe data operations. It supports key matching, data cloning, fault fixing and anti-theft lock removal.

Instrument computer

This tool reads, writes, calibrates and repairs vehicle instrument control units for odometer adjustment and fault fixing. It has DFLASH, FLASH, ID, lock and unlock functions, with read, write, verify, erase, cloud processing and wiring guides to ensure stable data operation. It repairs faulty data, recovers blank screens and writes matching data for replaced instruments.

Engine Control Unit

Provides read/write, repair and cloning for vehicle ECUs. Features DFLASH, EEPROM, FLASH, ID, lock and unlock. Supports data operations, cloud processing and wiring guides. For ECU cloning, used module matching and anti-theft data writing.

Software Introduction & Operation

Key chip

This module reads and writes data for vehicle key chips. It has EEPROM, CONFIG and other sections, supporting read, write and verification.

NFC

This tool reads and writes vehicle NFC data for NFC key cloning and duplication.

NFC 14443A (ISO 14443A)

Also known as Type A card, mainly Mifare cards.

Reading range: ≤ 10 cm (close contact required)

Max speed: 424 kbps

Mature encryption, high security

Widely used for digital NFC keys and phone car keys in new energy vehicles.

NFC 15693 (ISO 15693, ICODE)

Long-range loosely coupled RFID standard.

Reading range: over 1 meter

Strong penetration through metal, glass and plastic

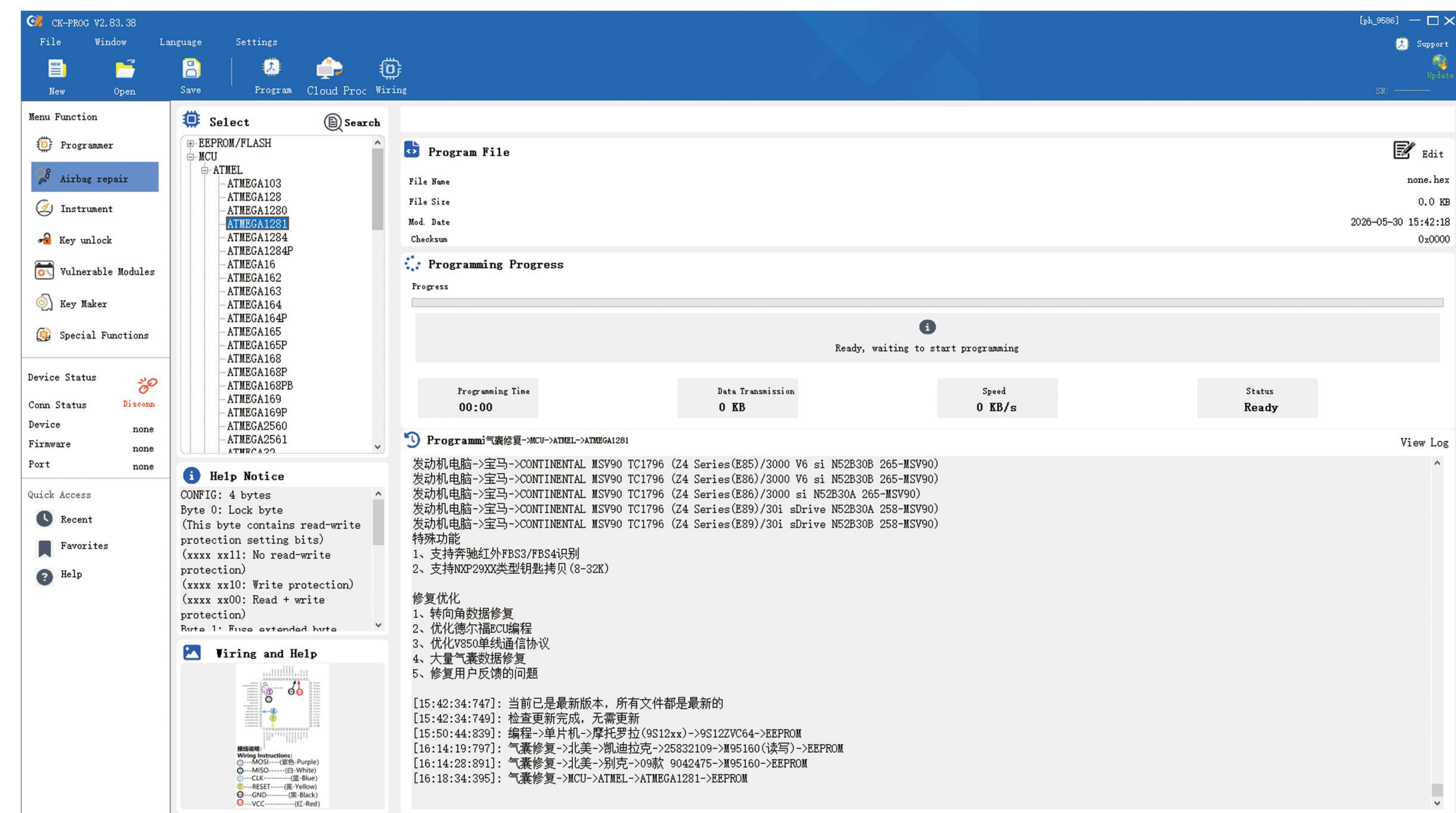
Max speed: 53 kbps, strong anti-interference

Applied to old models' keyless entry and vehicle component identification.

Software Introduction and Operation

Airbag repair

This module is dedicated to reading and writing data for vehicle key chips. The operation interface is divided into functional sections such as EEPROM and CONFIG, enabling separate access to the data area and configuration area of key chips. It supports reading, writing, verification and other functions.



Airbag Software Operation

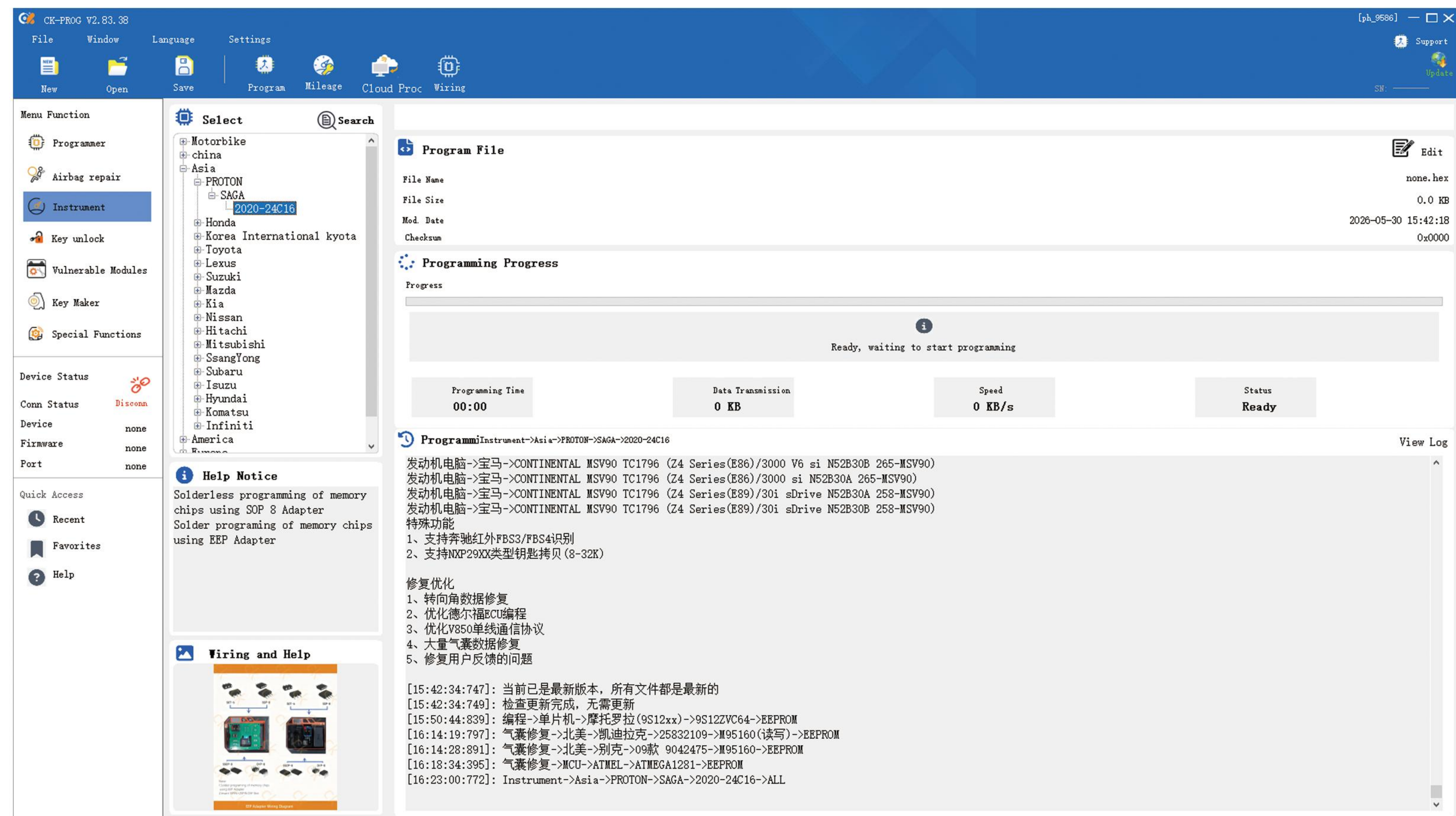
Select Airbag Repair on the left → Search for the corresponding part number.

Double-click the highlighted item or click Wiring Help to open the wiring diagram or octagonal chip layout diagram. Click the Repair button. Remember to back up the original data during repair. When the status shows success, install the part on the vehicle for verification.

Software Introduction & Operation

Dashboard

It supports data reading, writing, repair and calibration for dashboards, and is a tool for mileage adjustment.



Dashboard Operation

Select Dashboard on the left → Search for the corresponding vehicle model and year, then confirm the dashboard chip.

Double-click the highlighted entry or click Wiring Help to open the wiring diagram or octagonal chip position diagram.

Click Mileage. After the mileage value pops up, carefully check the original reading. Adjustment is acceptable even with a difference of dozens of kilometers before installation.

Dashboard Operation

Key Unlocking

It is specially designed to unlock vehicle key chips.

Wear-prone Module

It repairs data for vehicle vulnerable electronic control units and clears fault codes.

Software Introduction & Operation

Chip Identification

Quickly read the protocol types of anti-theft key chips (such as Hitag, TIRIS, MEGAMOS), ID data and encryption status, and determine whether the chip is locked, damaged or copyable. This is the basic initial inspection for key repair.

Frequency Detection

Detect the RF signal frequency of remote keys (e.g. 315MHz /433MHz/868MHz), check if the signal transmits normally and if the buttons malfunction. Troubleshoot issues such as unresponsive remotes and short operating range.

Add BMW Key

Provide key adding and matching services for BMW models equipped with BDC2/BDC3 anti-theft systems, supporting programming and additional configuration of new keys.

29Ax Copy

Support one-click cloning for dedicated NCF29Ax series key chips to enable quick key reuse.

Mercedes Infrared (IR) Key

Infrared Key Identification for Mercedes-Benz Vehicles

After-sales Service

Warranty Coverage and Duration

Within the valid warranty period, if the device malfunctions due to inherent quality defects or normal use, free repair or replacement service will be provided.

The warranty period commences on the date the device is received. The specific warranty term shall be subject to the product manual or the agreement at the time of purchase.

II. Liability Division and Expense Allocation

1. Expenses borne by our side

If inspection confirms the fault is caused by product quality issues:

Free repair, replacement of parts or complete unit will be provided.

All round-trip shipping fees shall be covered by us.

2. Expenses borne by the user

The user shall pay for all repair fees and round-trip shipping fees under any of the following circumstances:

Expired warranty: The device is out of the specified warranty period.

Man-made damage: Damage caused by improper use, including but not limited to:

Water ingress, dampness, dropping and collision;

Man-made damage to internal circuits and component breakdown.

Unauthorized disassembly or modification: Damage resulting from disassembly, repair or modification performed without authorization from official service centers.

III. Additional Notes

To apply for warranty service, the user shall present proof of purchase (such as order number, invoice, etc.) and deliver the device to an officially authorized service center.

For repairs outside the warranty scope, we will provide a quotation, and the user may decide whether to accept it.

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.