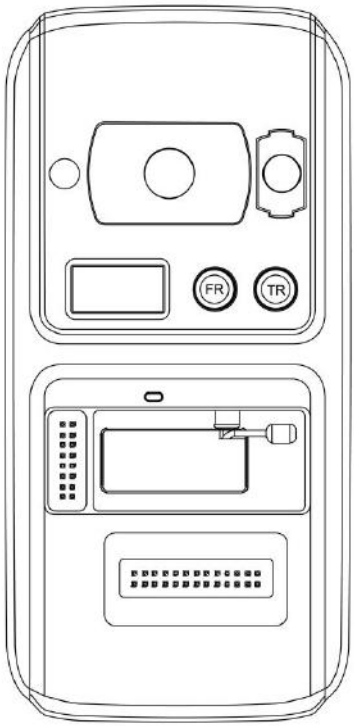
KC501 Key & Chip Programmer
User Manual



Please read this user manual carefully before using the KC501 Key & Chip Programmer. When reading the manual, please pay attention to the words “Note” or “Caution” and read them carefully for appropriate operation.

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OPERATION INSTRUCTIONS

For safe operation, please follow the instructions below:

- Keep the device away from heat or fumes when you are using it.
- Make sure the diagnostic link connector (DLC) is functioning properly before starting the test to avoid damage to the key programmer.

- Do not switch off the power or unplug the connectors during testing, otherwise you may damage the key programmer.

CAUTIONS!

- Avoid shaking or dismantling the unit as it may damage the internal components.
- Do not use hard or sharp objects to touch the LCD screen.
- Do not use excessive force.
- Do not expose the screen to strong sunlight for a long period.
- Please keep it away from water, moisture, high temperature or very low temperature.
- If necessary, calibrate the screen before testing to ensure the accuracy of LCD performance.
- Keep the main unit away from strong magnetic fields.

AFTERSALES-SERVICES

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1 General Introduction

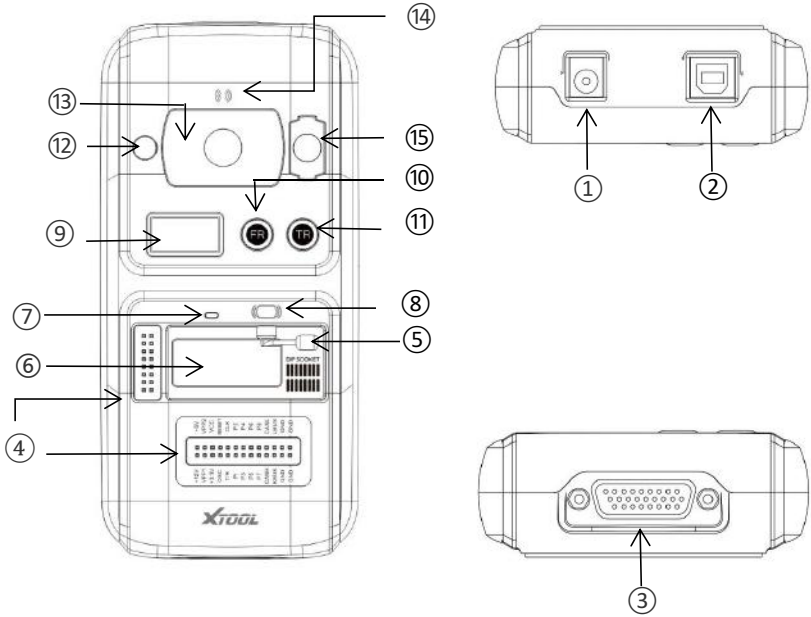
KC501 is a multipurpose key & chip programmer that supports these functions:

- Read & write car keys & key chip
- Generate dealer keys
- Write data to key emulators
- Read remote frequency, chip type & chip ID
- Read & write Mercedes-Benz infrared key
- Read & write MCU/EEPROM chip

This programmer could be used on all the advanced Xtool diagnosis/key programming tablets or PC/laptops with KC501 Studio installed.

ⓘ Some of the Xtool tablets (e.g., P700 series) doesn't come up with USB-C or USB-A ports. KC501 is not compatible with these devices.

EXPOSED VIEW OF KC501



① **DC Port**: Provides 12V DC power supply.

ⓘ Please connect 12V power supply to KC501 when working on MCU/ECU reading & writing process.

② **USB-B Port**: Provides data transmission between KC501 and Xtool devices or PC. Also provides 5V power supply when connected.

③ **DB 26-Pin Port**: Can be connected with Mercedes-Benz infrared cable, ECU cable, MCU cable and MC9S12 cable.

④ **Cross Signal Pins**: Holds the MCU board, MCU spare cable or DIY signal interface.

ⓘ The Cross-shaped signal pin is used to place MCU board, MCU spare cable or DIY signal cable to read or write MCU and ECU chips.

⑤ **Locker**: Locks the EEPROM component transponder slot to make sure it is functioning.

⑥ **EEPROM Component Transponder Slot**: Holds the EEPROM plug-in transponder or EEPROM socket, used to read & write EEPROM chip.

ⓘ The right-bottom corner of the slot is PIN 1. Please check the DIP SOCKET diagram printed on the right of the slot.

⑦ **Status LED**: Indicates current operating status.

⑧ **IC Card Induction Area**: Used to read and write IC card data.

⑨ **Display Screen**: Show remote frequency or transponder ID.

⑩ **Remote Frequency Button:** Press this button to show remote frequency in the display screen.

⑪ **Transponder ID Button**: Press this button to show transponder type and ID in the display screen.

⑫ **Transponder Slot**: Holds the transponder to read or write transponder data.

⑬ **Vehicle Key Slot**: Used to hold the vehicle key to read or write vehicle key data.

⑭ **Remote Control Transponder Induction Area**: Used to read and write remote control transponder data.

⑮ **Mercedes Infrared Key Slot**: Used to read or write Mercedes vehicle key data.

TECHNICAL SPECIFICATIONS

Item	Description
Display	0.96-in 128x64 Monochrome OLED screen
Input Voltage	5V (USB-B)/12V (DC)
Working Temperature	-10~50℃ (14~122℉)
Storage Temperature	-20~60℃ (-4~140℉)
Related Humidity	< 90%
Ports	● DC charging port ● USB-B port ● DB26 port
Relative Humidity	10%~90%
Size	176*85*32 (mm)

ACCESSORIES

① **FQFP Boards:** Weld microcontrollers on these boards to make jump wires more easily. 5 different boards are fitted inside the KC501 inventory, corresponding with microcontrollers with different pins (64/80/112/144/176).


FQFP176 Board

ⓘ When welding the microcontroller, please note thatt the white dot refers to the pin 1. Do not weld the chip on the wrong direction.

② **EEPROM PCBA:** Used for reading & writing EEPROM chip on bench. Please check “How to use – EEPROM reading & writing” for more information on using this PCBA.


PCBA EEPROM

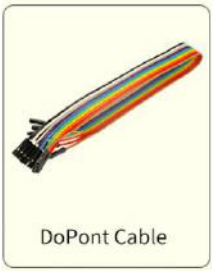
③ **EEPROM Chip Test Stand:** A test stand to hold EEPROM chip in place to read & write EEPROM chip on bench. Please check “How to use – EEPROM” for more information on using this test stand.


IC Test Stand

④ **IC Clip Cable:** A chip clip to read & write EEPROM chip without sealing-off the chip from the module. Please check “How to use – EEPROM” for more information on using this clip & cable set.

⑤ **Color Cable:** Could be connected to 26-pin connector and used to jump wires for reading & writing data on modules.

⑥ **DuPont Cable:** Separated cables for multi-purposes, like jumpers, read data, etc.

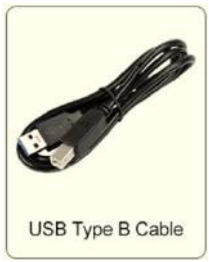


⑦ **Mercedes IR Key emulator:** Used to read & collect EIS/EZS data on Mercedes-Benz key programming process.

⑧ **XTA Cables:** Wiring harnesses for ECU reading & writing. To do that, connect the DB26 socket to the KC501, and jump wires onto the modules.

ⓘ Please check on Xtool tablets for connection details.

⑨ **USB3.0 to USB-B Cable:** Connect KC501 with Xtool tablets or PC/laptop for data transferring and power supply for KC501.



⑩ **USB3.0 to USB-C Adapter:** Allows you to use KC501 on devices with USB-C ports.

⑪ **Power Adapter:** For some of the operations (e.g., module programming), KC501 needs to be connected to the power supply. This allows you to connect KC501 with a 12V DC power input.

ⓘ Please subject to the notifications on Xtool tablets when power supply is necessary for the operations.

2 How To Use

PROGRAM KEYS & EMULATORS

KC501 is needed for some of the key programming process on Xtool devices (see support list). When it is needed, the device will pop up a notification and tell you to connect KC501. Please find the USB3.0 to USB-B cable and connect it to Xtool devices. The key programming software will tell you the following process.

ⓘ When you're using KC501 to your tablet for the first time it will tell you to bind the device to the tablet. If you want to use the device on another tablet after that, please find a PC or laptop, and contact your dealer or Xtool aftersales services.

READ REMOTE FREQUENCY

KC501 allows you to recognize the frequency of the remotes. To do that, please do as follows:

1) Connect KC501 to any of the power supplies.
2) Insert the key into the slot (remote signal-radiation side down).
3) Press “FR” button on the KC501.
4) Press any of the buttons on the key.
5) The readings will be shown on the screen.

READ TRANSPONDER ID & CHIP TYPE

KC501 allows you to read transponder ID and chip type of the key. To do that, please do as follows:

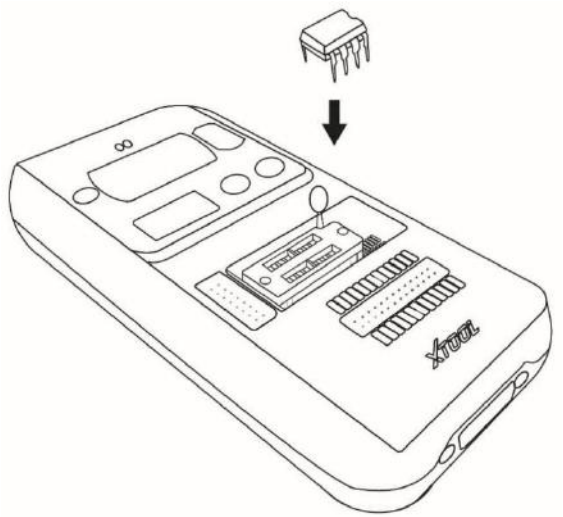
1) Connect KC501 to any of the power supplies.
2) Insert the key into the slot.
3) Press “TR” button on the key.
4) The readings will be shown on the screen.

EEPROM READING & WRITING

INSTALLING EEPROM CHIP

There are multiple ways to install EEPROM chip. Different methods require different accessories.

1) Install EEPROM directly
   a. Switch the locker up to unlock the slot lock.
   b. Put the EEPROM chip inside the slot. Remember to recognize the pin 1 on the chip and place the pin on the right-bottom corner of the slot.
   c. Switch the locker down to hold the chip in place.
      ⓘ This is only supported on large-sized EEPROM chips.
      ⓘ Make sure the chip is holding firmly to the slot.



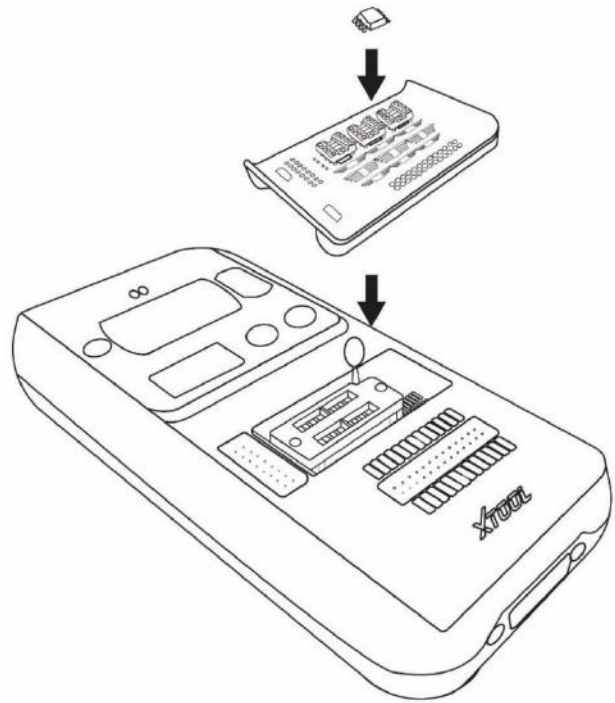
2) Via EEPROM PCBA

a. Take out the PCBA and weld (or install) the EEPROM chip onto it.

b. Turn the side with characters to the front (which will make characters upside down).

c. Install the entire PCBA onto KC501 and connect it to the cross-signal pins.

ⓘ Before welding (or installing) the chip onto the PCBA, make sure that you are installing on the right direction. There should be a groove, or a dot that indicates the location of pin 1.



3) Via IC test stand

a. Turn the IC stand and make the pins inside the stand located to the right-side. The right-bottom corner of the stand indicates that's pin 1.

b. Press the locker on the stand and put the EEPROM chip inside it. Remember to recognize the pin 1 on the chip and place the pin on the right-bottom corner of the stand.

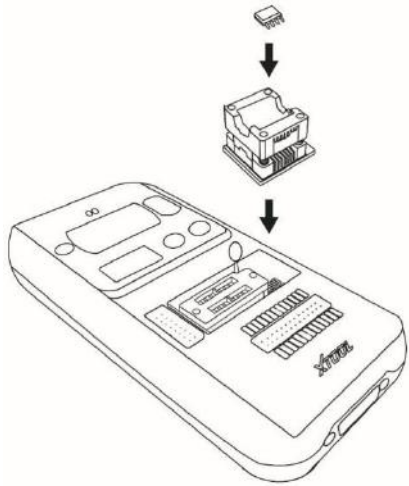
c. Switch the locker on the KC501 up to unlock the slot lock.

d. Insert the stand into the slot. Remember to recognize the pin 1 of the stand and the slot.

e. Switch the locker down to hold the stand in place.

ⓘ This is only supported on small-sized EEPROM chips.

ⓘ Make sure the chip and the stand are holding firmly.



4) Via IC clip cable (no sealing-off required)

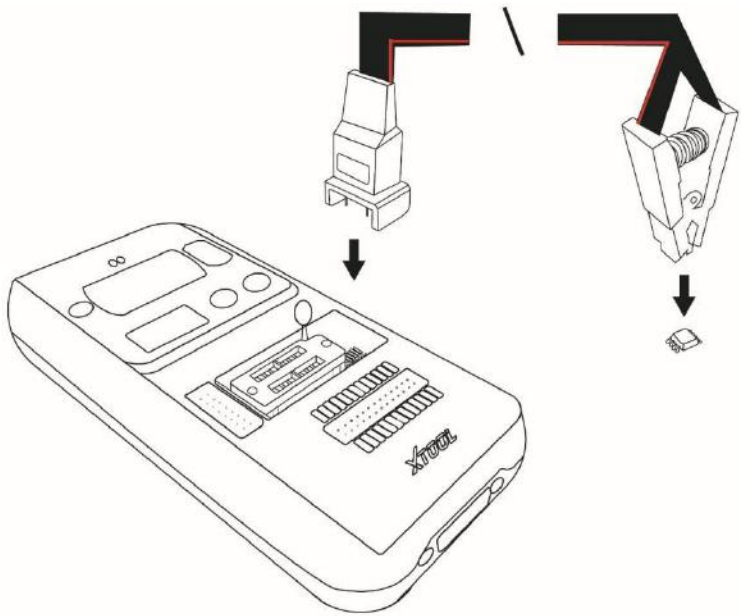
a. Switch the locker on the KC501 up to unlock the slot lock.

b. Insert the pin-side of the clip cable inside the slot. Remember to recognize the pin 1 of the clip cable, which is the wire that marked red. Make sure the red wire is heading towards the bottom of the KC501.

c. Switch the locker down to hold the cable in place.

d. Use the clip and clip it on the corresponding EEPROM chip firmly.

ⓘ This is only supported on small-sized EEPROM chips.



READ & WRITE EEPROM ON TABLETS

Here we will show how to read & write EEPROM data using Xtool tablets.

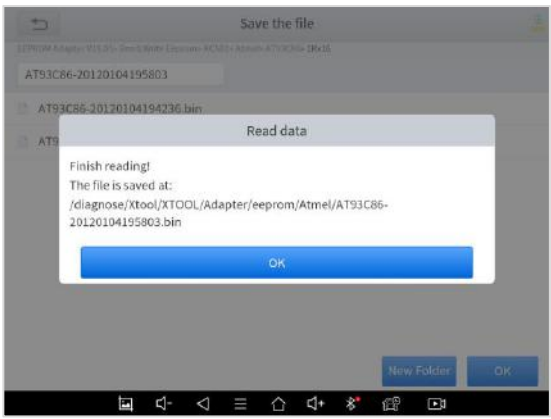
1) After installed the EEPROM chip, connect KC501 to the tablet, then go to Special Function – EEPROM Adapter.

2) Select Read/Write EEPROM menu, select “KC501” menu, then find the EEPROM brand, the model and the scale on the following menus.

ⓘ Please check Support list for all the EEPROM chips we supported.

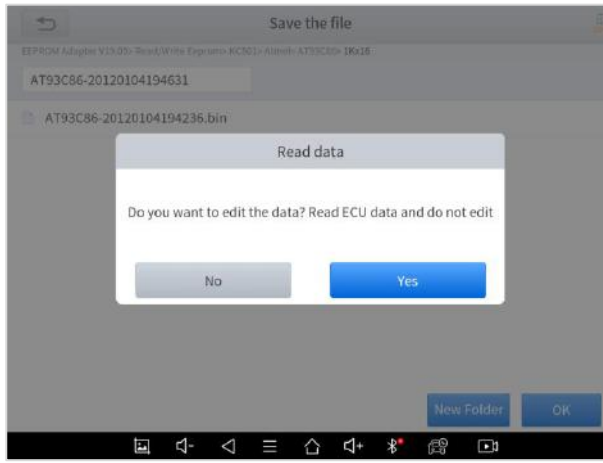
3) There are 3 options under this menu. From Operation document menu you can find the way to recognize pin 1 on the EEPROM chip. We will click “Read data” first.

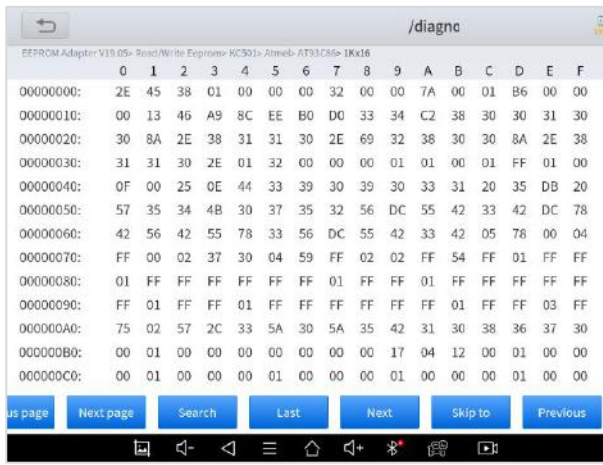
4) Now KC501 will read the data from the EEPROM chip. After it is done, you can edit the name of the EEPROM file and save it. The path will be shown on the screen.



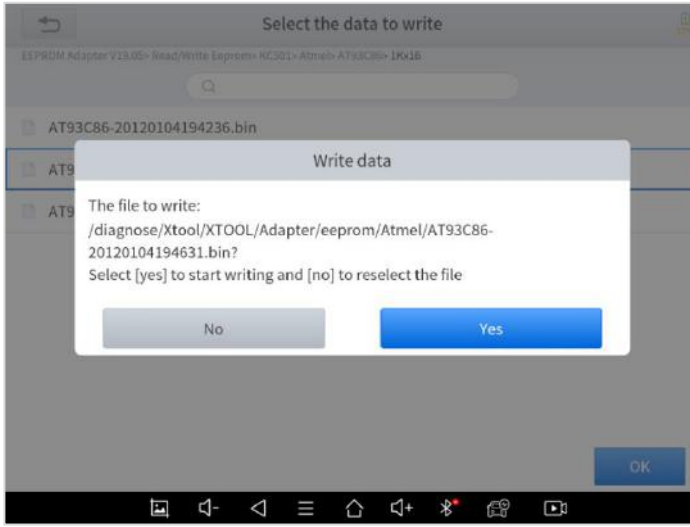
5) After the file is successfully saved, a notice will pop up and ask you if you need to edit the data. Click “Yes” to start editing, click “No” to exit reading process.

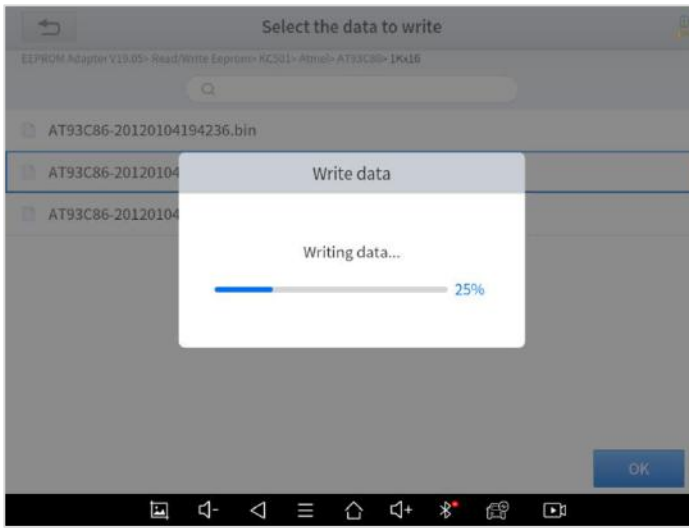
ⓘ You can also go to File Browser menu to edit the EEPROM files.



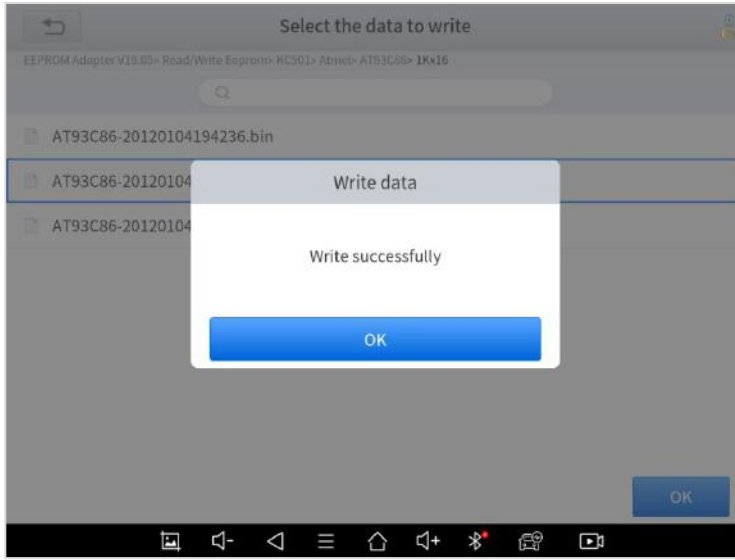


6) To write the data, click “write data” menu, then select the data you need to write. Click “Yes” to start writing.





7) Write successfully.



READ & WRITE ECU/BCM DATA

Here we will show how to use KC501 and Xtool tablets to read & write ECU/BCM data.

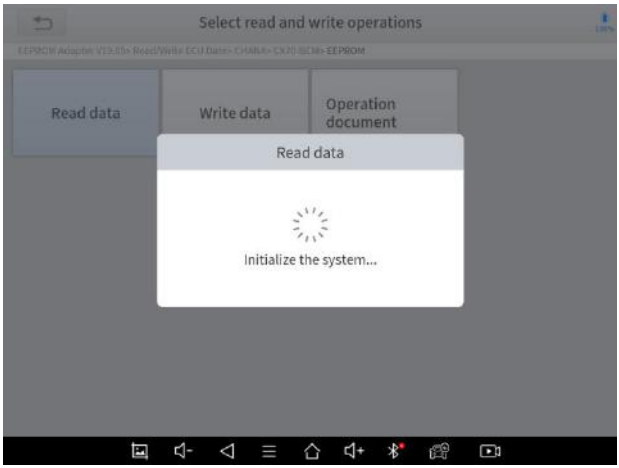
ⓘ Please check Support list for all the ECU/BCM we supported.

ⓘ For some of the operations, 12V power supply will be needed. We suggest plugging in 12V DC power supply when operating such functions.

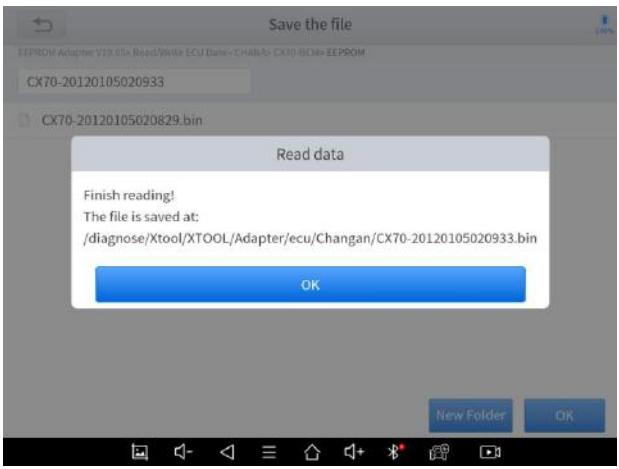
1) Connect KC501 to the tablet, go to EEPROM Adapter – Read/Write ECU data, and select the ECU/BCM you want to operate.

2) Open “Operation document” first to get the wiring diagrams for specific ECU/BCM. Use the XTA wiring harness or DuPont cable to connect the ECU and the KC501.

3) After it is done, click “Read data” to read the data from the ECU/BCM module.

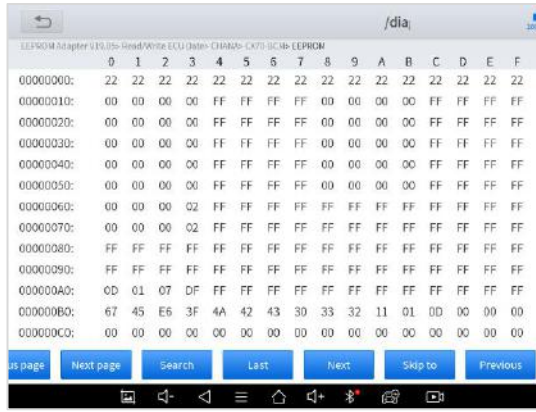


4) After the ECU has done reading, you can edit the name of the file and it will save as a BIN file. The path will be shown on the screen.

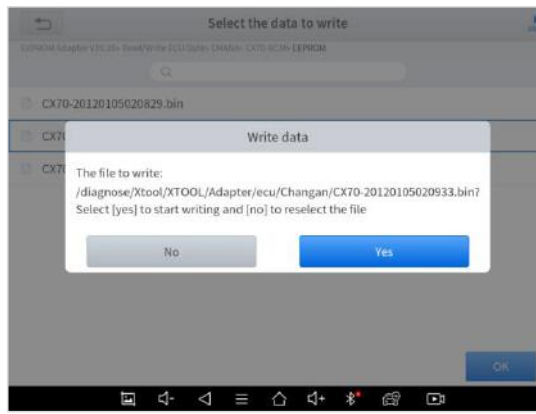


5) After it is saved, you can also edit the file. It will pop up a notice after saving the file, then click “Yes” to check and edit the file, click “No” to exit the process.

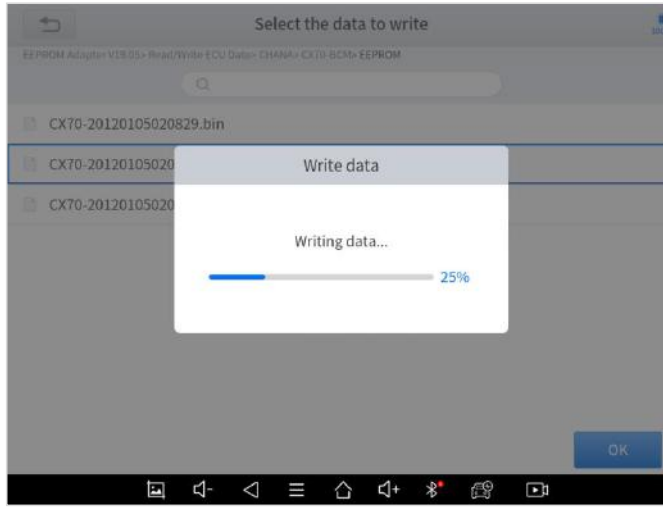
ⓘ You can also go to File Browser menu to edit the data files.

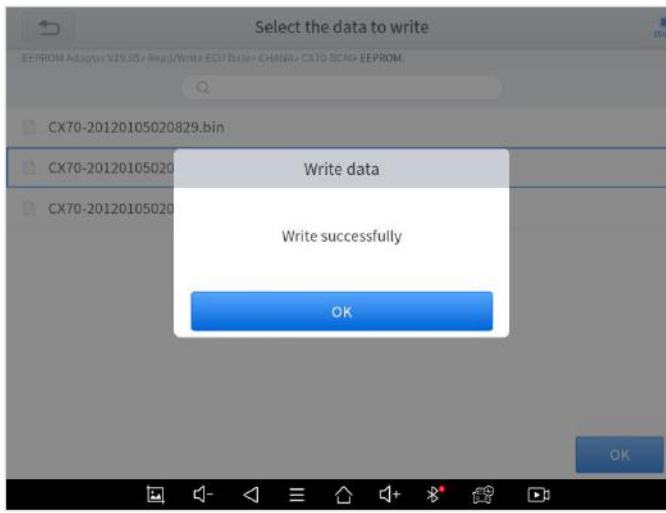


6) To write the data, click “write data” menu, then select the data you need to write. Click “Yes” to start writing.



7) Write successfully.





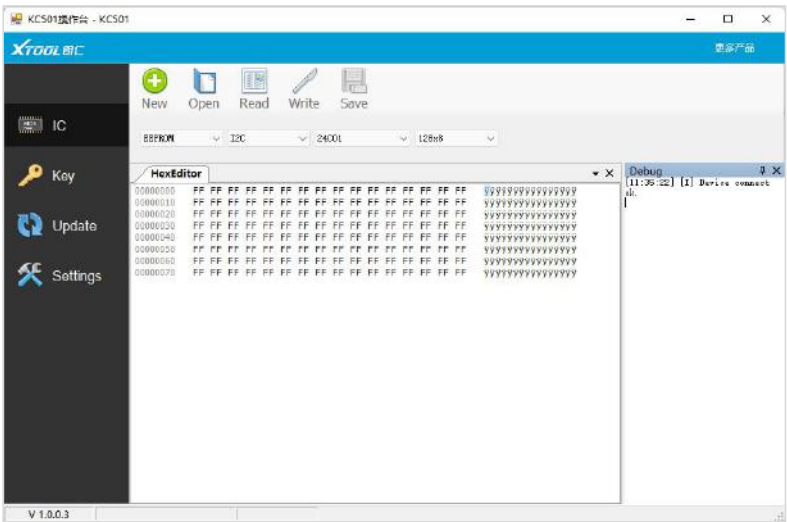
FUNCTIONS ON PC/LAPTOP

Before programming on PC or laptops please make sure you have installed “KC501 Studio” application on your devices. To download it, please go to Xtool official website, find Support – Download Center – Upgrade tool - KC501 and download the install pack.

ⓘ KC501 Studio is only supported on Windows 7 or later systems.

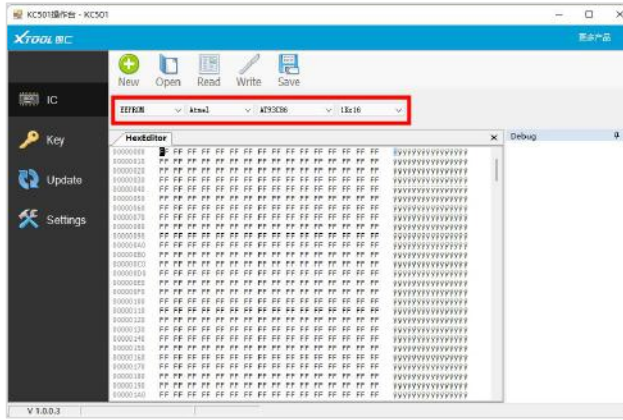
ⓘ We suggest to shutdown all anti-virus software when installing this application.

This is the main interface of KC501 Studio.

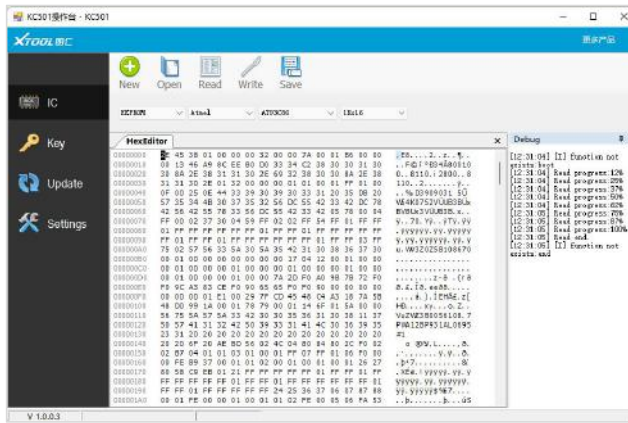


READ & WRITE EEPROM WITH PC/LAPTOP

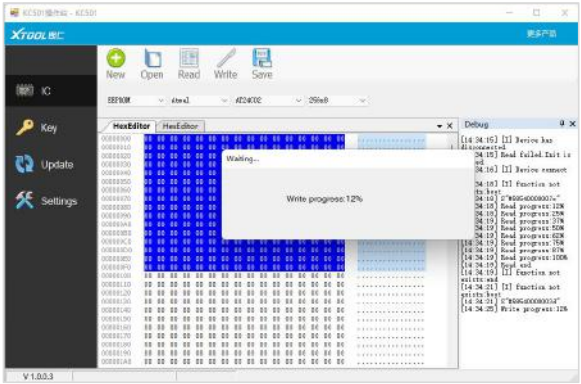
1) Select the correct EEPROM brand, model and scale, or click “Open” and find an existing BIN file.



2) Click “Read” button and wait for a while. The results will show on the interface, and you can edit it directly, or save it as BIN file.



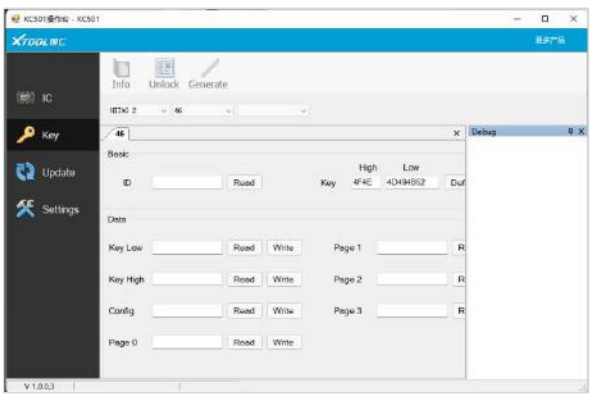
3) If you need to write data, press “Write” button to write the file that already opened to the EEPROM chip.



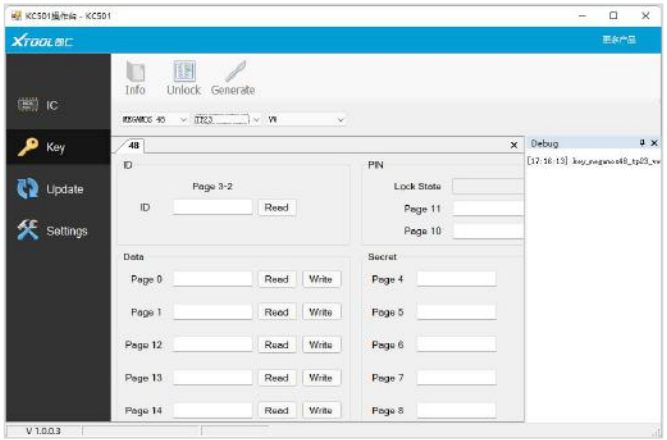
READ & WRITE TRANSPONDER CHIP WITH PC/LAPTOP

Now this function only works on ID46/48 keys. Let us take one as an example.

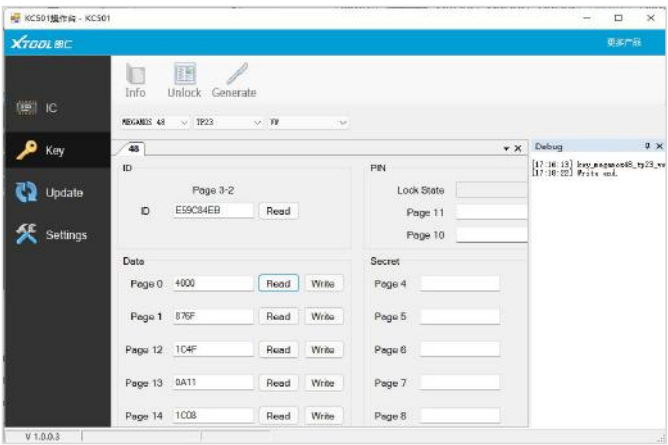
1) Insert the key (or transponder chip) inside the slots of KC501, connect KC501 to PC/laptop, then click “Key” menu on the left.



2) Select the key that you're reading, and the interface will be changed.



3) Click "Read" for each column and it will show corresponding data. You can also edit the reading results and click "Write" to replace the data.



3 SUPPORT LIST

ⓘ This is the support list updated on 3/7/2022. Please note that the support list will add functions as Xtool releases new updates, please check with Xtool official for latest updates.

KEY PROGRAMMING SUPPORT LIST

Manufacturer	Models	Model Year/IMMO Type	Usage	Side Notes
VW/AUDI/SKODA/SEAT	ALL	3.5th Gen. IMMO	Generate TP21/TP22/TP23/TP24 specialized 48 chips	
	A8/Phaeton/Touareg/Bentley	4th Gen. IMMO (46 Chip)	Generate dealer key	
	A6/Q7	4th Gen. IMMO (8E Chip) 2005-2012	Generate dealer key / Read&write D-FLASH (In AKL situations)	
	A4	4th Gen. IMMO (48 Chip) 2001-2008	Generate dealer key	
	PASSAT/CC	4th Gen. IMMO (48/46 Chip)	Generate dealer key / Read EEPROM data	Smart key--46 Chip Semi-smart key--48 Chip
	Other models	4th Gen. IMMO (48 Chip)	Generate dealer key / Read EEPROM data	
	ALL	MQB Platform(NEC35XX、Johnson)	Generate dealer key	
	A6/Q7/A4/Q5/A8/Phaeton/Touareg	5th Gen. IMMO	Generate dealer key	
	ALL	MQB Platform (5C Platform 49	Generate dealer key	Need to get CS code via online

		Chip)		
Mercedes-Benz	ALL	FBS3 IMMO (Infrared key)	Generate Infrared Key	
BMW	ALL	EWS2/EWS3/EWS4(44 Chip)	Generate key/Read&write D-FLASH	Only EWS4 supports read EEPROM
	ALL	CAS1/CAS2/CAS3(46 Chip)	Generate pre-processed key	
	ALL	CAS4(49 Chip)	Generate key/Read&write D-FLASH	
	ALL	FEM/BDC	Read&write EEPROM data	
CHRYSLER	RAM Promaster	46 Chip	Generate dealer key	
	RAM Promaster City	46 Chip	Generate dealer key	
FIAT	500、Palio、Siena etc	46 Chip	Generate dealer key	
	Linea、Punto	48 Chip	Generate dealer key	
	Viaggio	4A Chip	Generate dealer key	
HONDA	Civic、XR-V、VEZEL、Avancier	2020 and after	Read&write D-FLASH	For all smart key lost situations
LANDROVER/JAGUAR	ALL	2014-2018	Generate key/Read&write D-FLASH	
MITSUBISHI	ALL	Smart key(46 Chip)	Generate dealer key	For all smart key lost situations
PORSCHE	718、911、977、Boxster、Cayenne、Cayman、Macan、Panamera	2011-2017	Generate dealer key / Read&write D-FLASH	

RENAULT	Captur	2014+	Generate dealer key	For all key lost situations
	Clio IV	2016+	Generate dealer key	For all key lost situations
	Espace V		Generate dealer key	For all key lost situations
	Kadjar IV		Generate dealer key	For all key lost situations
	Megane/Scenic IV	2015+	Generate dealer key	For all key lost situations
	Talisman	2015+	Generate dealer key	For all key lost situations
	Trafic III	2014+	Generate dealer key	For all key lost situations (Johnson BCM)
	Logan	2014+	Generate dealer key	For all key lost situations (Johnson BCM)
	Kwid	2014+	Generate dealer key	For all key lost situations (Johnson BCM)
	Sandero	2014+	Generate dealer key	For all key lost situations (Johnson BCM)
SMART	453	2016+	Generate dealer key	For all key lost situations
TATA	INDICA VISTA、MANZA		Generate dealer key	For all key lost situations
TOYOTA	ALL	Smart Key (Chip 94/D4/98/88/A8/A9)	Generate emulated key	For all key lost situations
VOLVO	C30、C70、S40、V50	2007-2013	Read D-FLASH and obtain PIN code	
	S60、S80、XC70、V70、V70 XC	2005-2007	Read D-FLASH and obtain PIN code	
	XC90	2005-2017	Read D-FLASH and obtain PIN code	

	S60、S80、XC60、XC70、V40、V70、V70 XC	2008-2017	Read D-FLASH and obtain PIN code	For all smart key programming
	S60、S90、V60、XC40、XC60、XC90	2018-	Read D-FLASH and obtain PIN code	

EEPROM SUPPORT LIST

No	Manufacturer	EEPROM Chip Type
1	I2C	24C01
2		24C02
3		24C04
4		24C08
5		24C16
6		24C32
7		24C64
8		24C128
9		24C256
10		24C512
11		24LC21
12	Atmel	AT24C01
13		AT24C01A
14		AT24C02
15		AT24C04
16		AT24C08
17		AT24C16
18		AT24C164
19		AT24C32
20		AT24C64
21		AT25010(8)
22		AT25020(8)
23		AT25040(8)
24		AT25080
25		AT25160
26		AT25320
27		AT25640
28		AT25128

29		AT25256
30		AT93C46
31		AT93C56
32		AT93C56A
33		AT93C56B
34		AT93C57
35		AT93C66
36		AT93C66A
37		AT93C66B
38		AT93C86
39	Seiko	S24C01
40		S24C02
41		S24C04
42		S24C08
43		S93C46
44		S93C56
45		S93C66
46		S93C76
47		S93C86
48	ST	M24C01
49		ST24C01
50		M24C02
51		ST24C02
52		M24C04
53		ST24C04
54		M24C08
55		ST24C08
56		M24C16
57		ST24C16
58		M24C32
59		M24C64
60		M93C46
61		ST93C46
62		M93C56
63		M93C66
64		M93C76
65		M93C86
66		ST95010
67		M95020

68		ST95020
69		M95040
70		ST95040
71		M95080
72		ST95080
73		M95160
74		M95160-R
75		M95160-V
76		M95160-W
77		ST95160
78		M95320
79		M95320-R
80		M95320-V
81		M95320-W
82		ST95320
83		M95640
84		M95640-R
85		M95640-V
86		M95640-W
87		ST95640
88		M95128
89		M95128-R
90		M95128-V
91		M95128-W
92		ST95128
93		M95256
94		M95256-S
95		M95256-V
96		M95256-W
97		M35080
98		M35160
99	Xicor	X24C01
100		X24C02
101		X24C04
102		X24C08
103		X24C16
104		X25160
105	EXEL	XLS24C02
106		XLS24C04

107		XLS93LC06
108		XLS93LC46A
109		XLS93LC46B
110		XLS93LC46
111		XLS93LC56
112		XLS93LC56A
113		XLS93LC56B
114	Fairchild	FM24C02
115		NM24C02
116		FM24C04
117		NM24C04
118		FM24C08
119		NM24C08
120		FM24C16
121		NM24C16
122		NM24C32
123		FM93C66
124		FM93C66A
125		NM93C86
126	MicroChip	24C02
127		24C04
128		24C32
129		93046
130		93C46A
131		93C46B
132		93C56
133		93C56A
134		93C56B
135		93C56C
136		93C66
137		93C66A
138		93C66B
139		93C66C
140		93LC66A
141		93C76
142		93C86
143	Ramtron	FM24C04
144		FM24C16
145		FM24C64

146		FM25160
147	MicroWire	93046(16)
148		93046(8)
149		93C56(8)
150		93C66(16)
151		93C66(8)
152		93C76 WP0
153		93C76 WP1
154		93C86 WP0
155		93C86 WP1
156	Catalyst	CAT93C46
157		CAT93C56
158		CAT93C57(16)
159		CAT93C57(8)
160		CAT93C66
161		CAT93C76
162		CAT93C86
163	HOLTEK	CAT93C46
164		CAT93C56
165	NSC	93046(16)
166		93046(8)
167		93C56(8)
168		93C66(16)
169		93C66(8)
170		93C76 WP0
171		93C76 WP1
172		93C86 WP0
173		93C86 WP1
174	ON Semi	CAT93C46
175		CAT93C56
176		CAT93C57(16)
177		CAT93C57(8)
178		CAT93C66
179		CAT93C76
180		CAT93C86
181	Samsung	CAT93C46

ECU SUPPORT LIST

Manufactu	Models	MCU Type
BMW	EWS2	
	EWS3	
	EWS4	MC9S12DJ64
	CAS2-2K79X	MC9S12DG256
	CAS3-0L15Y	MC9S12XDP512
	CAS3-0M23S	
	CAS4-1L15Y	
	CAS4-5M48H	MC9S12XEP100
	CAS4-1N35H	
	CAS1-0K50E	
	MEVD1725（N13）	UNKNOWN
	Footwell for E-Chassis	MC9S12XEQ384
Porsche	BCM-2M25J	MC9S12XET512
	BCM-1L15Y	
	BCM-5M48H	MC9S12XEP100
	BCM-1N35H	
Audi	BCM2	UPD70F3378
	J518（-2010）	MC9S12DG128
	J518（2010-）	
	Steering lock HC08GR16-V1	MC68HC908GR16
Mercedes-Benz	EIZ-W211（ST12）	MC9S12DT128
	EIZ-W215（ST12）	
	EIZ-W169-V2（ST12）	
Ford	BCM for Escort	SPC56078
Land-Rover	RFA(Unencrypted)	MC9S12XET384
	RFA(Encrypted)	
Volvo	VOLVO-KVM	MC9S12DT256
	VOLVO-UEM	MC9S12DG128
	VOLVO-CEM-TYPE1	
	VOLVO-CEM-TYPE2	
	VOLVO-CEM-TYPE3	
GM	BCM3	UPD70F3558
Honda	BCM for Civic	
Buick	BCM for Regal/Lacrosse	MC9S12DG128
Renault	BCM for Laguna (2010-)	MC9S12DG512
Geely	BCM for Geely Atlas/Emgrand X7	UPD70F3634

4 TROUBLESHOOTING

Here we will point out some of the common issues when using KC501 and how to check or solve by yourself.

Q1: The lights on the device glows dimly.

A1: Try checking following this order:

a) Check USB cables. Make sure you are using original cables from KC501.

b) Connect the KC501 with 12V power supply and check the status of the lights.

c) Check the conditions on the USB socket on both tablets/PCs and KC501, see if it was damaged.

Q2: I connect my KC501 to PCs or laptops, but it gets no response.

A2: Before you connect to PC, make sure you have already installed KC501 Studio.

Then try checking following this order:

a) Check the lights on KC501. If it is not glowing or glowing dimly, please check Q1.

b) Call out the device manager on your PC. Check the USB ports and see if KC501 is shown on your PC.

c) If you find that the device is not loaded properly, please shut KC501 Studio down, disconnect KC501, open file explorer, find where you installed KC501 Studio (normally C:\Program Files (x86)\Xtooltech\KC501Studio), open “drivers” folder and select the driver for your PC settings.

ⓘ Please make sure all anti-virus software has been shut down before install the driver. The PC may show a threat alert and please set it as trusted.

Q3: I tried to connect KC501 to my tablet, but it shows not connected.

A3: Try checking following this order:

a) Check USB cables. Please check A1 for details.

b) Please go to EEPROM Adapter – Read KC501 firmware and take screenshots of the results, then send it to Xtool aftersales services.

c) If it still shows not connected, check the conditions on USB sockets for both devices.

d) Or try install KC501 Studio first and see if the KC501 can be recognized by PC.

Q4: I connected the KC501 to the device, but it shows “The device bounded by (other S/N)” when programming.

A4: This KC501 has already been used on other devices. Please find a PC, then contact Xtool aftersales services.

Q5: I was using KC501 on supported Xtool tablets, but it showed “Hardware not supported”.

A5: Make sure you have downloaded “IMMOBILIZER-KC501LIB” in the updates.

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