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MB NEC MOTOROLA IR KEY PROGRAMMER





Overview

This software and accompanied drivers are intended for educational Purposes only and its use is sole liability of user. All further consequences of Any other possible device use is subject of user's choice and responsibility. The drivers, provided are original Cypress® info-file and original Cypress® library files, which compatibility to Your current operating system is subject of Cypress® technical notes and bulletins. Any further questions of misbehaved Cy USB-library to be forwarded to Cypress® Support Desk.

Hardware serial number is visible in Windows in "My Computer" / "Properties" / "Hardware" / "Device Manager" - selecting the device -"Properties" / "Details" / "Device Instance id" and Serial Number (8 digits and/or characters) is shown after VID and PID of the interface hardware. The method, described above may vary, depending on exact operation system you are using, but in general is the same. This unique serial number eases identification of your hardware in manufacturer database, providing you corresponding initial software and further updates.

Hardware contains Lithium battery for backing up the critical data for Supporting its functionality. Do not use / store the device in extreme Temperatures or inappropriate humidity or another operational conditions, as this could lead to big leakage currents, shortening battery life. Consult Lithium-battery specifications for proper storage and usage. In any case it is good idea to have device connected and powered by USB port or another external compatible +5V DC source for prolonging battery lifespan.

Device can repair and learn an Extra key for all MB EIS Types. Function STMB003 Can read the password direct from Motorola EIS types with and WITHOUT WORKING KEY. Function STMB004/14 Can read the password direct from NEC/Motorola EIS All versions/ all types /all NEC Versions/BGA and Keyless.

Device can read 70/90% from Motorola EIS with HC08 Micro, 20% from Motorola EIS with HC12 Micro.

Program keys for HAVANA/ AMAZONAS PALERMO... EIS with black or chrome key Version 51/57.

* Device read the EIS/EZS via IR/OBD/CAN AND K-Line.

* Renew and program all NEC key versions like V11/21/V28/35/41/51/40/57.

* Car (WITH NEC EIS) That has no keys at all or has new BGA key, device create Grey key to program NEW EIS.

* Activate/Deactivate/Personalize/Enable and disable keys via IR/K-Line.



To program a key in the car.

Or on table, Via IR/ OBD or Can.



1- Open the ALL IN ON MB Software and select EIS.



2- Select IR, Connect, you can select the car type or keep it on 204 as AutoDetect.

EIS Tool by Simon Touch	www.keyprogtools.com	
		Read W201 Initialized by Factory I Transport Protection OFF Previous Key Last Key Used Replacement EIS Enable All Keys Replace
any additional information contact us at i W Version HW Number [Custom Command	nfo@keyprogtools.com Els	S Password Dealer Password SW Ver. Reset KM stand
Emulate Command by	es to send Length Send Respo	Save Green Key #
IR Connect VIN IR CAN tase / OF 2 Kline 22	Change Read EE TP Set Initialize	Load EE Write EE Change EIS Odometer Personalize Series Personalize Replaced
Read EIS Password	Test EIS Password Load EIS file	e Fast - Generate Key

3- Click on read.

sert IR Tool into EIS receptacle		*	Read Previ	W204 ous Key Key Used	 Initialized Transport Personalized 	by Factory Protection OFF zed EIS
			Disable Enable A	Key 1 💌	Deactivate Replacem	ed EIS ent EIS
		-	Read	Activate	Dea	ctivate / Renew
r any additional information contact us at info@keyprogto	ools.com		EIS Passwor	rd	Dealer Pa	ssword
W Version HW Number Serial Number		Schliessun	g Nr.	SW Ver.	Reset	KM stand
Grey Emulate Command bytes to send	Length	Send	esponse bytes	received	Save	Green Key #
Special Functions						
IR Stop VIN	Change	Read EE	Load EE	Write EE	Chang	e EIS Odometer
TP Release / OFF TP Key	TP Set	Initialize	Perso	nalize Series	Perso	nalize Replaced
Server Functions				28-2		
				1200		Companya Kaw

4- Insert the IR Key into the EIS, device will read the EIS SSID and Hashes in Seconds.



nique SSID 6005A408 ervice Hash 0EDCBE0B1E Key #1 Hash 53D7F8FBC11 Key #2 Hash 2CF99458D22 Key #3 Hash 89CC0887209 Key #4 Hash 02A991DF6D9 Key #5 Hash 02B3A3FBEC Key #6 Hash 38EE7039FA7 Key #7 Hash FE777F23C6F Key #8 Hash ECD03E3C38	698598 244878 enabled used 184723 278236 enabled used 196026 9F3214 enabled not used 276A19 enabled not used E01618 enabled not used 6D53E enabled not used 755F3 enabled not used AD010D enabled not used		E	Read V// 02 Previous 01 Last Key Disable K Enable All H Read	204 ▼ s Key r Used ey 1 ▼ Keys Activate	 Initialized by Factory Transport Protection OFF Personalized EIS Activated EIS Deactivated EIS Replacement EIS Series EIS
If Please, provide EIS pass HW Version HW Null Custom Command	word before calculating key du	mps !!! 66	Schliessung	EIS Password Nr.	SW Ver.	Dealer Password Reset KM stand
Grey – Emulate	Command bytes to send	Length	Send Res	sponse bytes re	eceived	Save Green Key #
Special Functions IR Stop TP Release / OFF	VIN TP Key	Change TP Set	Read EE	Load EE Personali	Write EE ze Series	Change EIS Odometer Personalize Replaced
Server Functions Read EIS Passw	vord (ANY Version, ANY EIS)		Test Calculat	ed EIS Passwor	d Ke	y1 ▼ Generate Key

5- Device will automatically create a folder name READ and save the EIS dump in it.

Favorites	Name	Date modified	Туре	Size
📕 Downloads	Mercedes_Tool.key	10/25/2015 12:38	KEY File	2 KI
🌉 Desktop	Arcedes_Tool	10/22/2015 10:05	Application	3,386 KI
🔠 Recent Places	📗 read	10/25/2015 7:44 PM	File folder	
	🔰 archive	10/25/2015 7:44 PM	File folder	
Libraries	A 7			
Documents				
👌 Music	4 6			
E Pictures				
Videos				

6- In READ folder you will see two dumps, one for universal key calculation device and one for SKC, the two dumps missing the key password, if you don't read the key password, device will create default password BC 3F 04 4D B1 3B 50 43

So you can use this dump to program a new EIS.

Favorites	Name	Date modified	Туре	Size
🐌 Downloads	🖻 781EC31A <	10/25/2015 7:46 PM	BIN File	1 KI
💻 Desktop	781EC31A_SKC	10/25/2015 7:46 PM	BIN File	1 K
A Recent Places	Û	You will see two dumps in Dump marked in Blue is for generator Dump marked in Red is for generator MISSING THE	n READ FOI or univers r SKC Key : KEY PAS	LDER sal key SWORD!!!

7- If you have function STMB003 You can read the password direct from Motorola EIS, by clicking the second read button, wait till the device extract the EIS password and automatically save in Read folder so the EIS Dump will be ready to calculate key and program it VIA IR or in Ziff socket (section 8 -9)

Key #1 Hash 883534A6896EDDCB disabled used 0 Key #2 Hash 99F09EC5AC81284B enabled used 0 Key #3 Hash 2491B51225212418 enabled used 0 Key #4 Hash 97CD4785E33C8ADD enabled not used Key #5 Hash F8389D5E11BC6EEE enabled not used Key #6 Hash 42C92C76C44FD56C enabled not used			Read W204 98 Previous Key 97 Last Key Used	 ✓ Initialized by ✓ Transport Pr ✓ Personalized ✓ Activated EIS 	Factory otection OFF 1 EIS
Key #7 Hash 8AC57C3628AF0EF3 enabled used 985030 Key #8 Hash 1E5589BD11EBAF50 enabled used 804781 reparing eading		E .	Enable All Keys Enable All Keys Read Activa EC648EAC6383814E	Replacement Series EIS	t EIS rate / Renew
or any additional information contact us at in ELS PF	ASSWORD	-	1004024003030142	Dealer 1 ass	word
HW Version HW Number 5006149250206145		Schliessung	Nr. SW V	Reset	KM stand
HW Version HW Number 5006149250206145 Custom Command	Length	Schliessung Send Res	Nr. SW V	er. Reset	KM stand
HW Version HW Number 5006149250206145 - Custom Command	Length	Schliessung Send Res Read EE	Nr. SW V sponse bytes received Load EE Write	e EE Change E	KM stand
HW Version HW Number 5006149250206145 Custom Command Grey Emulate Command bytes to send Special Functions IR Stop VIN TP Release / OFF TP Key	Change	Schliessung Send Res Read EE Initialize	Nr. SW V sponse bytes received Load EE Write Personalize Serie	e EE Change E Personal	KM stand reen Key #

- 8- If you don't have function STMB003, the job is done missing the key password, you can remove the IR key, Open the original working key, clean the NEC with solvent and DESOLDER it with hot air.
- 9- First plug the USB cable in your pc plug the MB NEC socket in the device then plug the MB NEC device in your PC, make sure that the NEC Is clean and on the right position.



10 – Open the ALL IN ONE MB Software and select KEY.



11 – Click on read, device will READ the key number, SSIS, Key Version and Key Status.

Reading		*	Read 7F0A620301F	F 211760310600	Write it!
(ev: 1			Read EEPROM	Write EEPROM	Erase EEPROM
SSID: 80C1554E lashes Counter: 185674			Write "Grey" Key	Decrement H	ashes Counter
/ersion ROM: 57 Key Status: 14EC			Activate Key	Read Radio Byte	Write it!
sattery: 0 %			051 File Type 💌 🔽	Swap EIS Password	Swap SSID
		*	PCB Adapter 👻	57 - 00040229 - Regular	\star Кеу Туре
- Test Functions	c			30	
Red LED ON	IR LED ON	IR LED CL	RF ON CL	RF ON "3"	RF ON "4"
- Custom Command			3 m	2001 AU11	
Power ON	Command bytes to send	Length Se	end Response bytes re	eceived Save	Power OFF
- Special Functions		102			
- Special Functions Convert "Grey" Ke	y to Normal Read Key H	ash VIN	Gre	een Key Password	Write "Green"
Special Functions Convert "Grey" Ke	y to Normal Read Key H	ash VIN	Gr	een Key Password	Write "Green"

12 – Click on READ EEPROM, device will take 10 to 20 seconds to read the password and it will automatically save the password in Read folder.

Key number and SID must be identical, NEC must be cleaned with solvent.

EV: 1			Read 7F0A6203	01FF 211760310600	Write it!
shes Counter: 185674		_ <u>_</u>	Read EEPROM	Write EEPROM	Erase Radio!
ey Status: 14EC tttery: 0 %			Write "Grey" Key	Decrement	Hashes Counter
ading		E	Activate Key	Read Radio Byte	0B Write it!
ey: 1 SID: 80C1554E			051 File Type 💌	Swap EIS Password	Swap SSID
ss: 58C7A79740B77A4F sh: 7A57D6EDC0D7E435			PCB Adapter 💌	57 - 00040229 - Regular	🔸 Кеу Туре
Test Functions				1	
Red LED ON	IR LED ON	IR LED CL	RF ON CL	RF ON "3"	RF ON "4"
Custom Command					
Power ON Comm	and bytes to send	Length	Send Response bytes	s received Save	Power OFF
Special Functions		2004 -			
Convert "Crow" Vou to Nor	mal Read K	ey Hash VIN		Green Key Password	Write "Green"
Convert Grey Key to Nor					



EIS Dump will be ready to calculate key and program it VIA IR or in Ziff socket or use the dump to program an Emulator or ESL/ELV.

13 – Calculate keys.

14 – Put any used NEC in the Ziff socket, click on read, select the NEC Version and erase the NEC.

KET TOOL BY SIMON TOU	ch	www.keyprogtools.com			
eading			Read 7F0A620301FF	211760310600	Write it!
			Read EEPROM	3	Erase EEPROM
ey: 1 SID: 80C1554E ashes Counter: 185674			Write "Grey" Key	Decrement Hashe	es Counter
ersion ROM: 57 ey Status: 14EC atterv: 0 %			Activate Key	Read Radio Byte	Write it!
Mory to N	1		051 File Type 🖵 🔽 St	wap EIS Password	Swap SSID
			2 57 - 0	00040229 - Regular 🗸 🔻	Key Type
Test Functions					
Red LED ON	IR LED OI	N IR LED CL	RF ON CL	RF ON "3"	RF ON "4"
Red LED ON	IR LED OI	N IR LED CL	RF ON CL	RF ON "3"	RF ON "4"
Red LED ON Custom Command Power ON	IR LED OI	R LED CL	RF ON CL	RF ON "3"	RF ON "4" Power OFF
Red LED ON Custom Command Power ON Special Functions	IR LED OI	N IR LED CL	RF ON CL	RF ON "3"	RF ON "4" Power OFF
Red LED ON Custom Command Power ON Special Functions Convert "Grey" Ke	IR LED OI	IR LED CL	RF ON CL	RF ON "3"	RF ON "4" Power OFF Vrite "Green"
Red LED ON Custom Command Power ON Special Functions Convert "Grey" Ke Server Functions	IR LED OI	Read Key Hash	RF ON CL	RF ON "3"	RF ON "4" Power OFF Vrite "Green"

ey: 7			Read 0000D2F9FAF	B EAEBECEDEEEF	Write it!
ashes Counter: 196604			Read EEPROM	Write EEPROM	Erase EEPROM
ey Status: 04FC attery: 0 %			Write "Grey" Key	Decrement Ha	ashes Counter
rasing cycle 1	1		Activate Key	Read Radio Byte	Write it!
rasing cycle 2 rasing cycle 3		Ē	051 File Type	Swap EIS Password	🗌 Swap SSID
ione.			PCB Adapter 👻	57 - 567897081 - Regular	 Key Type
Test Functions					
Test Functions Red LED ON	IR LED ON	IR LED CL	RF ON CL	RF ON "3"	RF ON "4"
Test Functions Red LED ON	IR LED ON	IR LED CL	RF ON CL	RF ON "3"	RF ON "4"
Test Functions Red LED ON Custom Command Power ON	IR LED ON	IR LED CL	RF ON CL	RF ON "3"	RF ON "4" Power OFF
Test Functions Red LED ON Custom Command	IR LED ON	IR LED CL	RF ON CL Send Response bytes re	RF ON "3"	RF ON "4" Power OFF
- Test Functions Red LED ON - Custom Command - Power ON - Special Functions - Convert "Grev" #	IR LED ON	IR LED CL	RF ON CL	RF ON "3"	RF ON "4" Power OFF Write "Green"
- Test Functions Red LED ON - Custom Command - Power ON - Special Functions - Convert "Grey" #	IR LED ON	IR LED CL	RF ON CL Send Response bytes re	RF ON "3"	RF ON "4" Power OFF Write "Green"
Test Functions Red LED ON Custom Command Power ON Special Functions Convert "Grey" H	IR LED ON	IR LED CL	Send Response bytes re	RF ON "3"	RF ON "4" Power OFF Write "Green"

15 - Click one read, device will show you the erased NEC status, click on write

Load the SKC calculated key dump, you can check and fix the NEC radio bytes. Remove and solder the NEC in the key, insert the key into the EIS, the key led will goes on and off for a second, start the car.

16 – IR Programmer

Read/Write/Erase/Program/Read password from BE/EB/China keys all versions by IR

Read password/SSID/Hash counter/Service hash from **NEW** Grey BGA Key.

Read the key status, version, SSID, frequency, radio bytes.....

Read and save internal EEPROM data by clicking "Read EEPROM Bytes"

Program renewed original keys V11/21/V28/35/40/41/51/57, Can check the Key Radio Bytes and fix it to be (03)



Deading		-	R	ead 00000000	0000	Write it
Version ROM: BF				Read EEPROM	Write EEPROM	Erase EEPRON
Key Status: 0000 Battery: 0 %				Write "Grey" Ke	y Decrement H	lashes Counter
				Activate Key	Read Radio Byte	Write it!
			051	File Type 👻	Swap EIS Password	Swap SSID
			18	Adapter	BE - non-OEM Key	👻 Кеу Туре
Test Functions					09 - 00032094 - Keyless 41 - 567912011 - Keyless	*
Red LED ON	IR LED ON	IR LED CL		RF ON CL	09 - 00032094 - Keyless 42 - 567912021 - Keyless	RF ON "4"
- Custom Command				38	59 - 567912041 - Keyless 61 - 567912051 - Keyless BE pop 05M Key	=
Power ON	Command bytes to send	Length	Send	Response byte	S L EB - non-OEM Key	Power OFF

eading	~	Read 000000000000		Write it!
Provide BOMA RE		Read EEPROM	Write EEPROM	Erase EEPROM
ey Status: 0000 attery: 0 %		Write "Grey" Key	Decrement Ha	shes Counter
/riting		Activate Key	Read Radio Byte	Write it!
Jie.		051 File Type 💌 🔽 Sv	vap EIS Password	🗌 Swap SSID

sauniy			1.56.597.66.5550		write it.
ersion ROM: BE		Read EEPROM Write "Grey" Key		Write EEPROM	Erase EEPROM
ey Status: 0000 attery: 0 %				Decrement Hashes Counter	
riting		Activate Key		Read Radio Byte	Write it!
one.		051 File Type	▼ □ Sw	ap EIS Password	Swap SSID

17 – Device can renew and program any used NEC /Motorola using the Ziff Socket like V11/21/V28/35/40/41/51/57, Can check the Key Radio Bytes and fix it to be (03)

"Key Status" - hexadecimal representation of internal operational state.

0000 – MB Key is blank (erased state of Key after production). 21DF – MB Key is prepared (Key accepts only encrypted data). 04FC – MB Key is programmed, but not activated. 05FB – MB Key is programmed, but not activated. 14EC – MB Key is activated and fully functional. 15EB – MB Key is activated and fully functional. 0CF4 – MB Key for service (so called "Green Key, Orange Key.....")

Enjoy 🙂

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