



Nanning Auto Service Co.Ltd

CKM200 Instruction

Version (V1.03)

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Important Statement:

This instruction is only available for reference for users. Nanning Auto Service Co., Ltd. reserves the right to change the product or product instruction without notice, reserves the right not to update this document to inform these changes.

I. Product Introduction

1. Features

- For BMW & BENZ and more vehicles in the coming future;
- Multi-functions: Integrate functions such as key information reading, data calculating, key writing, and is applicable to both old and new models.
- Easy operation: Graphical workflow will make it easy for your operation.
 What s more, our CKM200 can be operated via OBD socket, CAN or K
 line on many models without disassembly.
- Innovative Payment Methods --- Pay as you go!
- **High security of G3 platform:** CKM200 is based on our G3 (the third generation) platform which adopted IDEA (International Data Encryption Algorithm) for registration, upgrade and payment.

2. Applicable Vehicles

2.1 BENZ

Benz S CLASSW140 W220

Benz CL CLASSW215

Benz SL CLASSR230

Benz E CLASSW210, W211

Benz CLK CLASSW208, W209

Benz CLS CLASS (W219)

Benz C CLASS (W202, W203)

Benz ML CLASS (W163)

2.2BMW

Old BMW (EWS2.EWS3.EWS4)

BMW 1/3/5/6E87.E90.E91.E92.E60.E61.E63.E64series white shell CAS 2

BMW 1/3/5/6/XE87.E90.E91.E92.E60.E61.E63.E64.E70.E71series black shell CAS 2

BMW 1/3/5/6/XE87.E90.E91.E92.E60.E61.E63.E64.E70.E71series black shell CAS 3

BMW 7 series E66 CAS 2005- CAS 2



3. CKM200 Device







CKM 200-1.00-CN Setup.exe

KM-200 Car Key Master - InstallShield Wiz Customer Information Please enter your information.

TY

Macrovision Corp...

0

II Software Installation

Operation steps:

Double click to install "CKM 200-1.00-CN.exe"











< Back [Install] Cancel



You have completed the software installation ,and the computer desktop displays



III Activation

Note: Make sure the computer has been online before doing product activation

operation.

Operation steps:

- 1. Connect device power;
- 2. Operate device manually, select the "PC mode", then the device connect computer with USB cable ;



3. Click to run CKM-200 Car Key Master; (Operate as the following figure)

СКМ200			n Tip:	Verify Code:
Please download mana	gement program, re-run the software!		nput validation	See clearly, change one
Connectin	g device, please wait			Next
ivation	g device, please wait	device acti		Next
ivation tion Tip:	ID: d498133075886	device acti Informatio Device No	n Tip:	Next
ivation		Informatio	n Tip: rmal	
ivation ion Tip: n	ID: d498133075886	Information Device No	n Tip: :mal 	
ivation tion Tip: n JnActivation E-cash: 0 validate ok	ID: d498133075886 PWD:	Information Device Not Operation Device Not Operation	n Tip: mal mal	
ivation tion Tip: n JnActivation E-cash: 0 validate ok	ID: d498133075886	Information Device Not Operation Device Not Operation	n Tip: mal ng files(36/36)	

IV Payment

Function: input token card account to hardware device, ensure that the device can be used normally.

Note: Make sure the computer has been online before doing product payment operation.

Operation steps:

1.Connect device power;

2.Operate device manually, select the "PC mode", then the device connect computer with USB cable ;

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	naming	/10/10	0011100	00.,	LIU



3. Run Car Key Master(CKM 200.exe), click "Management" → "Payment",



operate as the following figure

V Upgrade

Product Upgrade

Function: Update the device operation interface and functionality

Note: Make sure the computer has been online before doing product upgrade



Operation steps:

- 1. Connect device power;
- 2. Operate device manually, select the "PC mode", then the device connect

computer with USB cable ;



3. Run Car Key Master(CKM 200.exe), click "Management" → "Update"→

"Product Update" ,operate as the following figure



oftware Upgrade		upgrade firmware
Programe Informations: Upgrade CKM-200 Car Key Master Check last upgrade CKM-200 Car Key Master Check upgrade CKM-200 Car Key Master Read file list CKM-200 Car Key Master Downloading File upgrate progress: 23.67%	Reconnect	Information Tip: Verify Code: dpm2 See clearly, change one Input validation code
	Next Exit	Next Bat
pgrade firmware		
nformation Tip: Operation		
Deration		
Remain E-cash: 700		
Device validate ok		

4. After the firmware upgrade completed there will pop up a dialog box and prompt whether you need to upgrade adapter, if yes, click "Yes" to upgrade adapter; If not, click "No" to cancel adapter upgrade.







5. In the last step, it will prompt to upgrade device, you must first unplug the USB cable and device power line, press F1 of CKM-200, then plug device power line(please hold down F1 until plug the device power), handset device will upgrade procedure (in the device upgrade process, please do not off power supply) until the device prompts: "Upgrade Success!". This is a successful upgrading. As shown below:



Ipgrade version:1.02	
Current process	
Upgrading, don't power off !	

VI Examples

1. BENZ series(such as: C Class)

V1.03

		¥ 1.05
	Benz Series	
	BMW Series	
	Programmer	
l	Browse File	
Spe	cial function :	
l	Device Info	
I	PC Mode (Active/Update/Charge)	
	File Management	
	YH Kev List	

Program keys for M	ercedes-Benz:
S Class	CL Class
SL Class	E Class
CLK Class	CLS Class
C Class	ML Class
Use the last data	
Change key	
Read key info	

Note: The amount of tokens is different depending on the car model and the function model.

Please select :

YH Key ID

Automatic Mode Advanced Mode

Automatic Mode: Device finish the calculation of key data automatically.

Advanced Mode: Key data calculated byanother devices.

Please select : W202 Chassis W203 Chassis

Step1: EIS

W203:(process 4 steps as follow) Step 1: EIS Step 2: DME Step 3: ESL Step 4: Key Programming

W203 Chassis-->EIS:

08AZ60/1J35D



W203-->EIS

08AZ60/1J35D:

1. Chip and Adapter Diagram
2. Next



Note Save the current data?
.YHS .BIN Cancel

	ss F2 to cancel the ut of file name
P	lease input
	Please enter the file name, don exceed 7 characters. 2031311
	OK Cancel

Note				
Save	the	file :	success	fully!

ote
Please select operation:
Prog Key Recover Ext

Pre	ess O						us	ed k	evs
	Plea								
	1	2	3	4	5	6	7	8	
	Г		Г	Г		Г	Г	Г	
		10	11	12	13	14	15	16	-
		()K			Canc	el]	
				Pre	SS	FI	to	con	firm



Remaining tokens: 595 Dedncted tokens: 5
OK Cancel

Step2: DME

W203:(process 4 steps as follow) Step 1: EIS Step 2: DME Step 3: ESL Step 4: Key Programming





W203-->DME



1. Chip and Adapter Diagram
2. Next



Note Save the current data?
Save the current data?
.YHS .BIN Cancel





VIN Spa:	inforamtion: : WDBUF46J64A457652 re part number: 112545533 cory data: 1C7C1C7CODOCEEAB314E234A5FA79 C30313231353335534376930313045 303135
	Note
	Please select operation:
	Prog Key Recover Exit



ote
Remaining tokens: 594 Dedncted tokens: 1
OK Canc

Step3: ESL

W203:(process 4 steps as follow) Step 1: EIS Step 2: DME Step 3: ESL Step 4: Key Programming



W203-->ESL

05E6/0F82B(K Line):

1. Chip and Adapter Diagram
2. Next





Please input Please enter the f exceed 7 characters.	
Please enter the f	
78541	ile name, don
OK	Cancel









Step4: Key programming





W203-->Key Programming YH Key: 1. Chip and adapter Diagram 2. Next



Note	
	key successfully!



Note	
Remaining to Dednoted to OK	
	Cancel

2.BMW series(such as:X5)





Program Keys for BMW:

New BMW

Old BMW

Use the last data

Note: The amount of tokens is different depending on the car model and the function model.

New BMW>9S12 Adapter:	
CAS1	
CAS2	

New BMW-->9S12 Adapter-->>CAS2:

X5(E70) 9S12DG256

- 1 Series White shell 9S12DG256
- 1 Series Black shell 9S12DG256
- 3 Series White shell 9S12DG256
- 3 Series Black shell 9S12DG256
- 5 Series White shell 9S12DG256
- 5 Series Black shell 9S12DG256
- 6 Series White shell 9S12DG256
- 6 Series Black shell 9S12DG256

Step1: CAS Reading

New BMW-->9S12 Adapter-->CAS2-->X5(E70) 9S12DG256

Note: Please connect correctly referring to the Operation Diagram before operation.

CAS Location Diagram

CAS Operation Diagram

Key Adapter Diagram

Step 1: CAS Reading

Step 2: Key Programming

Step 3: CAS Programming



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Note		
Save the	current	data?
. YHS	.BIN	Cancel





Note				
Please s	elect o	perati	on:	
Prog Key	Recov	rer	Exit	





ccount info	
Remaining to Dednoted tok	ens: 5
UK	Cancet

Step2: key Programming



Please selet a key	
Please select the ngkey,enter to prog 1 2 3 4 5 9 10 11 12 13	correspondi ram key. 6 7 8 14 15 16 Exit













Step3: CAS Programming









Account info	
Remaining toke Dedncted toker	
فسيستقد	

3. Programmer

3.1 IC Programming



Programmer

Please select the type of operation: IC Programming MCU Programming

Programmer>IC Programming
24 Series
25 Series
93 Series
95 Series
29F Series
Other Chip

Programmer	>IC Programming>95 Series:
95010	95020
95040	95080
95128	95160
95320	95P01
95P02	95P04
95P08	







01A1	01A1	01A1	01A1	01A1	01A1	01A1	01A1	
E279	E279	E279	E279	E279	E279	E279	E279	
7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	
A7F5	A7F5	A7F5	A7F5	A7F5	A7F5	A7F5	A7F5	
B6C5	BE 35	RF 2m	BSCS	R6C5	Bers	BSC5	B6C5	
D6F7	DE.T	CLF.	1317	3 F7	J.Fi	2.37	D6F7	
B45D	B45D	B45D	B45D	B45D	B45D	B45D	B45D	
F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	
A56F	A56F	A56F	A56F	A56F	A56F	A56F	A56F	
C87D	C87D	C87D	C87D	C87D	C87D	C87D	C87D	
Curr	Current address: 0x00000000							
	(m)(1)		4 Qu			P	-	
_ y		110	UC		N a	re		
I	Page	up	Pag	e daw	n	Exit		
_								

01.11	0141	0141	0141	0141	0141	0141	0141	
01A1	01A1	01A1	01A1	01A1	01A1	01Å1	01A1	
E279	E279	E279	E279	E279	E279	E279	E279	
7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	
Pr	855	F1	to s	wit	ch b	etw	een	
80	litir	1 9 8	10 8	nd f	unc	tion	a	
ar	88.							
F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	
A56F	A56F	A56F	A56F	A56F	A56F	A56F	A56F	
C87D	C87D	C87D	C87D	C87D	C87D	C87D	C87D	
Curi	Current address: 0x00000000							
open Save as Program							am	
	Page	up	Pag	e daw	n	Exit	:	

Note	
	to program!
	OK

Note Save the current data?		
	Note	
.YHS .BIN Cancel	Save the current data?	
	.BIN Cancel	





01A1	01A1	01A1	01A1	01A1	01A1	01A1	01A1		
E279	E279	E279	E279	E279	E279	E279	E279		
7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	7FBB		
A7F5	A7F5	A7F5	A7F5	A7F5	A7F5	A7F5	A7F5		
B6C5	B6C5	B6C5	B6C5	B6C5	B6C5	B6C5	B6C5		
D6F7	D6F7	D6F7	D6F7	D6F7	D6F7	D6F7	D6F7		
B45D	B45D	B45D	B45D	B45D	B45D	B45D	B45D		
F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	F5D6		
A56F	A56F	A56F	A56F	A56F	A56F	A56F	A56F		
C87D	C87D	C87D	C87D	C87D	C87D	C87D	C87D		
Curi	Current address: 0x00000000								
open			Sa	Save as			am		
	Page	up	Pag	e daw	n 🚺	Exit			



3.2 MCU Programming

Programmer	Programmer>MCU Programming:
	MC68HC(7)05 MC68HC(9)08
Please select the type of operation:	MC68HC(7)11 MC68HC(9)12
IC Programming	MC68HC9S12
MCU Programming	CAS3
	MC68HC11
	MC68HC(9)12/MC68HC9S12

Programmer>MCU Prog 12/MC68HC9S12(Security	
MC68HC912D60	MC68HC912DG128A
MC68HC9S12D64	MC68HC9S12DG128B
MC68HC912DC128	MC68HC9S12DG256C
MC68HC912DG128	E60 Flash
MC68HC912DC128A	E65 Flash

Programmer-->MCU Programming

MC68HC(9)12/MC68HC9S12(Security)

--->MC68HC9S12DG256C 80Pins 112Pins

Programmer-->MCU Programming

MC68HC(9)12/MC68HC9S12(Security)

-->MC68HC9S12DG256C

112Pins:

- 1. Adapter Picture
- 2. Wiring Diagram
- 3. Next





Note		
Save the	current d	lata?
THS	.BIN	Cancel
.103	. DIN	J

ess F2 to cancel the out of file name
Please input
Please enter the file name, don' exceed 7 characters. D4216
OK Cancel



01A1	01A1	01A1	01A1	01A1	01A1	01A1	01A1
E279	E279	E279	E279	E279	E279	E279	E279
7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	7FBB
A7F5	A7F5	A7F5	A7F5	A7F5	A7F5	A7F5	A7F5
B6C5	BE 35	RF 25	BSCS	R6C5	Becs	BSC5	B6C5
D6F7	D6.17	CLF.	1317	S F7	J.Fi	2.37	D6F7
B45D	B45D	B45D	B45D	B45D	B45D	B45D	B45D
F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	F5D6
A56F	A56F	A56F	A56F	A56F	A56F	AS6F	A56F
C87D	C87D	C87D	C87D	C87D	C87D	C87D	C87D
Curi	rent	addre	ess: C	0x000x	00000		
	aner	nh	1 20	v as	1 6	Proce	
1		щ		The second		re	
	Page	up	Pag	e daw	n	Exit	

01A1 E279	01A1 E279	01A1 E279	01A1 E279	01A1 E279	01A1 E279	01A1 E279	01A1 E279
7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	7FBB	7FBB
Pr	ess litir	F1		wit(ch b unc	etw	een al
ar	ea.						
F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	F5D6	F5D6
A56F	A56F	A56F	A56F	A56F	A56F	AS6F	A56F
Card Curi	cand cent	addre	cand ess: (C87D 0x0000	C871) 00000	C87D	C87D
C	oper	1	Sa	ve as		Progr	am
	Page	up	Pag	e daw	n [Exit	





Save the current data?	Note			
	Save the	current	data?	
.YHS .BIN Cancel	. YHS	.BIN	Can	cel

Please input Please enter the file name, don' exceed 7 characters.
Please enter the file name, don' exceed 7 characters.
D4258
OK Cancel



| F5D6 |
|------|------|------|------|------|------|------|------|
| A56F |
| C87D |
| D6F7 |
| B45D |
| A7F5 |
| B6C5 |
| 01A1 |
| E279 |
| 7FBB |

ccount info	
Remaining t Dedncted to	
OK	Cance

VII Appendix

Appendix 1: The Ways of Identifying the Pin Order

1. If the chip has nick, pin 1 is on the bottom left corner, and the number of Pins in Count-clockwise direction are 1, 2, 3, 4, 5, 6, 7, and 8.

2. If the chip has no nick, but "•", pin 1 is close to "•", and the identification of the others' number is the same as above.

3. If the chip has text only, from the text positive, pin 1 is on the bottom left corner, the identification of the others' number is the same as above.



Chip 93C56 outline diagram

Appendix 2: Chip Dismantling and soldering

1) The choice of iron:

It should be connected with ground safely. When there is no constant temperature soldering iron, the 20W internal heat-type or 25W external heat-type soldering iron can be OK, but ensure that the former should not exceed 25W, and the latter does not exceed 30W.

2) The choice of flux:

Rosin is the best choice. Solder paste will never be allowed to use in soldering. You should change the rosin immediately when it turns to black.

3) The choice of solder wire:

The imported solder wire with low melting point and rosin is the only choice.

2. Chip disassembling

1) When unsoldering biserial & straight inserted chip, you can clean out the soldering tin on the pin by disordering gun or disordering wire, please don't draw hard.

2) When unsoldering patch or chip, melting more rosin on the two rows of pins, and heat them up until the chip loose completely, then remove it. Please don't pry hard.

3) Please do not heat the chip too long, or it will be damaged.

4) If there is protection paint on the chip, please heat it up with iron, and scratch gently with a blade or tweezers, then dismantle the chip.

5) How to wipe off the protection paint on the circuit board or IC?

Before soldering, please heat the layer of protection paint with iron or hot air to 70-80 degrees Celsius, and then peel gently with a word screwdriver.

3. Chip Soldering

1) Please do not heat the chip too long, or it will be damaged.

2) The iron should be wiped with a damp cloth or soaking sponge to keep it clean ,because it won't be easy to disordering tin in a state of high-temperature oxidation for a long time.

3) The heat conduction should depend on the tin, and it does no good to soldering by the iron head-to-chip hard.

4) Don't move or shake the chip before the soldering solidified.

5) When soldering, you had better first solder the diagonally pins to fasten the chip, and then do other pins.

Thank you!

Any query, please kindly contact with us !

Add : No. I room, 15Fl, International Chamber of Commercial Tower, No 59 Jinhu Road,Nanning, Guangxi, ChinaPost No. : 530021Tel : 86 -771-58424565846955Fax : 86-771-5846955Email: sales@autoemaster.comWeb:http:// www.carkeytool.com