

# GODIAG BMW CAS1/CAS2 Mech-Key Test Platform



User Manual 2024 V1.1

## **Product overview**

GODIAG BMW CAS1/CAS2 Mech-Key Test Platform is a dedicated device developed for BMW locksmiths, maintenance engineers and CAS1 / CAS2 programming engineers. Please note that this product is only suitable for mechanical keys and does not support the semi-intelligent smart key CAS2. If necessary, please purchase a semi-intelligent smart key detection platform.



- 1. Check if the CAS1/CAS2 module and mechanical keys are synchronized.
- Cooperate with the key programming devices like xhorse vvdi 2 / bmw vvdi bim tool / Autel im608 / CGDI BMW etc. to perform all key lost matching or key addition operations.
- 3. CAS1/CAS2 module diagnostics
- 4. CAS1 / CAS2 module programming

# **Product Structure**



- (1) Check the start switch.
- (2) IMMO synchronization detection indicator light.
- (3) CAS module key induction coil indicator light.
- (4) Power indicator light.
- (5) Key identification port.
- (6) CAS2 module 41PIN connector.
- (7) CAS1 module 54PIN connector.
- (8) CAS2 module 14PIN connector
- (9) Start/stop button

## Functions:

A. Synchronous detection of module and key:

Check whether the CAS2 module and mechanical key can be synchronized:



Step 1: Connect the CAS2 module according to the connection diagram

Step 2: Put the key into the key sensing area

Step 3: Connect the power supply.

Step 4: Press the start switch (press the start switch once to turn on the CAS power and automatically detect whether the key and CAS are synchronized, press it again to turn off the CAS power and turn off the detection).

Synchronization judgment method: when the detection start switch is pressed, the Power indicator light will light up. If the key is synchronized with CAS2, the CAS module key induction coil indicator light will flash regularly. If it is an unsynchronized key, the key induction coil indicator light will only flash quickly for 2 seconds. [If the key is synchronized with the CAS module, the IMMO synchronization detection indicator light will light up and the internal buzzer of the machine will sound. If the key is not synchronized with the CAS module, the IMMO synchronization detection light will not light up and the internal buzzer of the machine will not sound.]

Step 5: Press and hold the analog start/stop button, the IMMO synchronization detection indicator light will go out after 3 seconds. The INDUC sensor indicator light also goes out.

After releasing, the IMMO synchronization detection indicator light will light up. The INDUC sensor indicator light flashes.

CAS1 module and key synchronization detection:



- Connect the device according to the connection diagram. Please use 12V 2.5A for power supply, otherwise the CAS1 module cannot be driven. [Do not connect the CAS2 module]
- Press the start switch [you can see the START-STOP indicator light on the CAS lights up]
- 3. Insert the key into CAS1
- 4. Press the CAS1 key. If the key is synchronized with the CAS1 module, the CAS1 key will be locked. It will automatically exits if the key is not synchronized.

CAS2 mechanical key module key programming and module programming identification diagnostic connection demonstration:

The following uses Xhorse vvdi2 device to perform BMW CAS2 mechanical key programming and matching operations:

1. Connect the CAS2 mechanical key module and key programming diagnostic equipment according to the connection diagram. Press the start button to provide power to CAS2.



2. Select "key learn—CAS/EWS Information---Connect-- Read EEPROM". [Note: Take away the key and do not perform synchronization detection between the key and the CAS2 module before connecting to read data. Just press the start button to power the CAS module. If the CAS module detects a synchronized key, then the connected device cannot read the data. ]

	CAS/EWS Information	Function
CAS identifica AS ID	CAS Key Learn ation FEM/BDC Key Learn 696505	Connect
'IN	Motorcycle Key Learn     Read KM       WBAN/     File Make Key       CAR2     ECL/CAS ISN	Read EEPROM
Prod. Date	2003.1( Unlock Key > on Codes	Write EEPROM
4SV/FSV/OS 4W/Cod.Inde	V 0.C.40 / 5.8.4 / 3.2.4 CAS code-DME: Read Code	Save to File
Diag.Index	CAS code-EGS: Write Code	Load From File
Addr: 000 Addr 0000 <mark>00</mark>	00 Hex: 00 Dec: 0 Bin: 0000000 Ascii: . Hex Ascii	Synch DME-CAS
		Synch CAS-ELV
		Clear DTC
		Clear Shadow

Save to File ...

Car Typ	e	KV	<b>P</b> -	CA	Nk	ous	10	0K	bps							~	Function	лі -	
CAS ide	entificat	tion -							- KM	Rep	air -							Connect	
CAS ID		6965	050					٦.							Decklink				
VIN		WB	ANA5	5204	0B5	6663	1	7	КМ	store	ed in	CAS			Keau KM			Read EEPROM	
CAS typ	e	CAS	2												Write KM				
Prod. D	ate	2003	.10.2	29					Syr	nchro	oniza	ition (	Code	95				Write EEPROM	
MSV/FS	v/osv	0.C.	40 / 5	5.8.4	/ 3.	2.4			CAS	5 cod	le-D	ME:	[		Read Code			Save to File	
HW/Cod	d.Index	02/	05						1000			2.2	I			_		Save to The	
Dia <mark>g.</mark> Ind	lex	0690							CAS	s coc	le-E	GS:			Write Code			Load From File	
Addr:	0000	) H∈	x: (	00	Dec	<b>:</b>	0	Bi	.n :	000	000	000	Às	cii: .					· · ·
Addr					1.5.5.1.1	He	BX	1.0.0				150215		As	cii				
0000	00 H	FF FF	FF	40	05	14	08	08	3C	28	00	09	00	.ÿÿÿ@.	< (	^		Synch DME-CAS	5
0008		00 वर बच 87	11 17	90 77	11	rr nn	FP F9	00	FF FF	11 11	11	rr 1	rr FC	. U . Y . Y	<u>100000 11</u>				
002A	FF H	F FF	FF	FF	FF	67	E9	68	E5	E6	6E	47	A2	VVVVVV	⊊éhåænG¢			Synch CAS ELV	6
0038	AO A	9 F1	7C	58	0E	Α9	37	02	EO	FO	9D	45 1	FF	©ñ   X.	97.àðEÿ			Synch Ch3-ELV	
0046	FF E	F 3F	FE	0C	48	BE	4B	29	BF	F5	51	6A (	76	ÿÿ?þ.H	≨K)¿õQjv				
0054	5F E	C8 5A	C4	77	EE	96	49	51	FF	FF	FF	7D 1	FO	_èZĂwî	IQÿÿÿ}č			Clear DTC	
0062	FO 9	0 56	06	65	DB	16	ED	C5	52	78	83	F7 1	D7	ðV.eU.	iARx÷×				
0070	45 E	9 DD	60	93 1 F	F5 FC	5/	D7	F9	83 54	31	89	99 1	58 55	E≚qaõg: α Ý` ÷	XU/*Ø (AVT HHH				
007E	17 0	0 DL	40	26	EC	20	10	90	54	50	96	AG 1	20	S. I.	(OAI.yyy ≜ù@]			Clear Shadow	

If you want to read the CAS mileage or modify the CAS mileage, please operate the corresponding menu"Read KM".

It can also read CAS code-DME.

🥵 VVDI2 - BMW V7.3.5 Remaining Synchronization Time: 8 days SN:VV20930097 — 🗌 🗙 Options Unit Coding Key Learn Special Function Synchronize device time

Car Type	KWP-CAN bus 100	Kbps ~	
CAS identific	ation	KM Repair	Connect
CAS ID	6965050	Read KM	
VIN	WBANA52040B566631	KM stored in CAS 97193	Read EEPROM
CAS type	CAS2	Write KM	
Prod. Date	2003.10.29	Synchronization Codes	Write EEPROM
MSV/FSV/OS	0.C.40 / 5.8.4 / 3.2.4	CAS code-DME: 2EAD Read Code	Save to File
HW/Cod.Inde	× 02 / 05		Save to ment
Diag.Index	0690	CAS code-EGS: Write Code	Load From File
Addr: 000	0 Hex: 00 Dec: 0	Bin: 00000000 Ascii: .	
Addr 0000 00	Hex FF FF FF 40 05 14 08 0	Ascii 8 3C 28 00 09 00	Synch DME-CAS
000E 00 001C 00 002A FF	D6 00 FF 09 FF FF FF 0 F8 FF FF FF FF 00 F9 F FF FF FF FF FF 67 F9 6	0 F6 FF FF FF FF FF .0.y.yyy.uyyy.uy F FF FF FF 00 FC	
0038 A0	A9 F1 7C 58 0E A9 37 0	2 E0 F0 9D 45 FF ©ñ X.©7.à8Eÿ	Synch CAS-ELV
0054 5F	E8 5A C4 77 EE 96 49 5	1 FF FF FF 7D F0X (10,00)	Clear DTC
0070 45	90 56 06 65 DB 16 ED C BA 71 61 93 F5 67 D7 F	5 52 78 83 F7 D7   6V.eU.1ARx÷× 9 83 3F B9 99 F8   E⁰qaõg×ù?¹ø	
007E D8	18 DD 60 1E EC 28 F3 5	8 54 06 FF FF FF Ø.Ý`.i(óXT.ÿÿÿ	Clear Shadow

3. Key programming steps: select "key learn—CAS Key Learn ---Connect" , select "Get Key Info" and "Save Key Info".

Car Type	CAR	C	AS/EWS Informatio	on				199	Function	
cal type	CAS	C	AS Key Learn					~	Cor	nect
General in CAS ID <mark>:</mark> Key cuttir	fo ng code:	FE M Fil	M/BDC Key Learn lotorcycle Key Lea le Make Key	rn	type:	CAS2			Get K	ey Info
Current k	ey in ignition	U	nlock Key		>				Write	Key Info
Key Inform	mation						1	]		
Position	Key ID	Status	Туре	Info	Low	High	CFG	PS	Save Key Info	Load Key Info
Key 1	BD6ACD14	Enable	PCF 7936 transpo	002B00	583881AA	49B9	CE	B8:	Eroso/Edit Koy	View all key
Key 2	00CDAB17	Enable	PCF 7936 transpo	00A100	A1162D42	D153	C8	1A!	Info	information in detail
Key 3	72199B19	Enable	PCF 7936 transpo	002100	A1DDE3C3	C4C0	C8	608		
Key 4	FFFFFFF	Disable	Unknown	017608	90F12579	7AD4	C8	D2I	Prepare dealer ke	y with programmer
Key 5	FFFFFFF	Disable	Unknown	017608	713E486F	E1E9	C8	A8,		
Key 6	FFFFFFF	Disable	Unknown	017608	14C3E501	5257	C8	1F2	Prepare dealer key	with ignition switcl
Key 7	FFFFFFFF	Disable	Unknown	017608	89323455	1E56	C8	30(		
Key 8	FFFFFFF	Disable	Unknown	017608	775FB336	6C97	C8	B4t	Add Kor	Panair Kaulass Ka
Key 9	FFFFFFF	Disable	Unknown	017608	745194F6	1CED	C8	8C/	Add Key	Repair Reviess Rev
Key 10	FFFFFFF	Disable	Unknown	017608	CB2F257B	BF5D	C8	11(	Enable Key	Disable Key
<								>	Lindble (key	Disable itey

4. Select an unused key position, be sure to select the "prepare dealer key with programmer" menu, and use the VVDI2 key programmer to generate the key. <u>If the key is placed in the key sensing area of the GODIAG BMW CAS1/CAS2 Mech-Key Test</u> <u>Platform, the dealer key will not be generated.</u>



Car Type	CAS	- CAN	l bu	s 100Kbr	os				~	Function	
General in	fo	1000	18.58.2							Cor	nnect
CAS ID:				6965050		CAS type:	CAS2				
Key cuttin	g code:			HA0001526	3					Get K	ley Info
CAS remo	te control fre	equency:		315Mhz							
Current ke	ey in ignition	switch is	:	Key 3						Write	Key Info
Key Inform	nation —										
Position	Key ID	Status	Тур	e	Info	Low	High	CFG	PS	Save Key Info	Load Key Info
Key 1	BD6ACD14	Enable	PCF	7936 transpo	002800	5B38B1AA	49B9	CE	B8:	Frase/Edit Key	View all key
Key 2	00CDAB17	Enable	PCF	7936 transpo	00A100	A1162D42	D153	C8	1A!	Info	information in detail
Key 3	72199B19	Enable	PCF	7936 transpo	002100	A1DDE3C3	C4C0	C8	608		
Key 4	FFFFFFFF	Disable	Unkr	nown	017608	90F12579	7AD4	C8	D2I	Prepare dealer ke	y with programme
Key 5	FFFFFFF	Disable	Unkr	nown	017608	713E486F	E1E9	C8	A8,		
Key 6	FFFFFFF	Disable	Unkr	nown	017608	14C3E501	5257	C8	1F2	Prepare dealer key	with ignition switc
Key 7	FFFFFFF	Disable	Unkr	nown	017608	89323455	1E56	C8	300		
Key 8	FFFFFFF	Disable	Unkr	nown	017608	775FB336	6C97	C8	B4(	Add Key	Renair Kevless Ke
Key 9	FFFFFFF	Disable	Unkr	nown	017608	745194F6	1CED	C8	8C/		inspan no no so no
Key 10	FFFFFFF	Disable	Unkr	nown	017608	CB2F257B	BF5D	C8	11(	Enable Key	Disable Key

5. After programming the dealer key, place the key into the Godiag BMW CAS1/CAS2 Mech-Key Test Platform sensor port for testing. For test steps, please refer to module and key synchronization detection.

If the new key detection is out of sync, please synchronize CAS and DME or synchronize CAS and ELV. Reconnect the device and module and press the button 'Check the start switch' If the IMMO light cannot light up, enter the VVDI2 menu "Key Learn—CAS/EWS Information — Connect — Synch DME-CAS or Synch CAS-ELV" for synchronization operation. [When performing synchronization, the key must be placed in the key sensing programming area of the VVDI2 device.]



ar Type	KWD C	AS/EWS Inform	ation			Function
AS identifica AS ID	ition F 914722	AS Key Learn EM/BDC Key Le	arn			Connect
N	WBAUI F	ile Make Key	Learn	XAS	Write KM	Read EEPROM
od. Date	2006.02 U	Jnlock Key	>	on Codes		Write EEPROM
ISV/FSV/OSV	0.0.0 / 6.4.2 / × 03 / 05	3.3.0	CAS code-DM	E:	Read Code	Save to File
iag.Index	06A0		CAS code-EG	5:	Write Code	Load From File
Addr: 000 Addr 0000 00	0 Hex: 00	Dec: 0 B: Hex	in: 0000000	IO Ascii: .	Ascii	Synch DME-CAS
						Synch CAS-ELV
						Clear DTC
						Clear Shadow

The following uses the Xhorse vvdi2 device to perform the BMW CAS1 key programming and matching operation:

1. Connect the CAS1 module and the key programming diagnostic device according to the connection diagram. Press the START switch on the Godiag BMW CAS1/CAS2

Mech-Key Test Platform and the POW indicator light will light up, indicating that the test platform has output power. The indicator light on the CAS1 mode will also light up. [Please use 12V 2.5A power supply, otherwise it will not be able to drive the CAS1 module]



2. Select "key learn—CAS/EWS Information---Connect-- Read EEPROM". [Be careful not to insert the key. If the data cannot be read, please reconnect and turn on the platform power.] [**Note:** Do not perform a synchronization test between the key and the CAS1 module, otherwise the connection or data reading will not be possible. If a synchronization test is performed, please disconnect the power supply and reconnect the device and CAS module.]

ar type	K	WP	CAS/EWS Info	rmation		~ Fu	nction
AC idor	tification		CAS Key Learn				Connect
CAS ID	6	94248	FEM/BDC Key	Learn			
1.0	0.	542.40	Motorcycle Ke	y Learn	Read KM		
VIN	N	BAG	File Make Key	CAS	271905	=	Read EEPROM
CAS type	C	AS1	ECU/CAS ISN		Write KM		
			Unlock Key	>	•		Write EEDROM
Prod. Dat	e 20	002.05		, on Co	des		WHILE EEPKOM
MSV/FSV	/OSV 0.	A.D8 / 6.	C.8/2.3.0	CAS code-DME:	3926 Read Code		
JW/Cod	Inday 0	2 / 02		a secono na n			Save to File
nvv/cou.	Index 0,	3703		CAS code-EGS:	0000 Write Code	그 는	
Diag.Inde	x 0:	310					Load From File
1.2.2	0000	U 00	D D 0	Din . 00000000 3		L	
Addr	0000	nex. ot	Hex	DIN. 00000000 A	Ascii		
0000	00 55	44 03 1	4 08 08 78 2	8 00 02 00 00 OD	UDx(		Synch DME-CAS
0000	00 F5	00 FC 0	)0 EB 00 ED 0	0 F1 FF FC FF FF	.õ.ü.ë.i.ñÿuÿÿ		-1
000E	FF 54	A2 D4 C	28 84 10 72 6	7 3E 20 61 90 EE	UÿT¢ÖÉ.rg> aë N ⊾v#αNi4100		
000E	D1 3C		77 Z3 D8 88 L	/1 FS ZI AE AE 94	N, NI #UNO!00		Synch CAS-ELV
000E 001C 002A 0038	D1 2C	13 90 9	37 8D 63 36 E	19 34 DD B2 80 8E	$u/7c6^{1}\cdot Y^{2}$		
000E 001C 002A 0038 0046	D1 2C AB 2F 48 DF	13 9C 3 88 7C 4	37 8D 63 36 E 1A 44 29 79 A	89 3A DD B2 80 8E 85 F3 A9 F0 E4 83	«∕.7c6¹:Y²   HB ªD)y¥ó©ãä		
0000E 001C 002A 0038 0046 0054	D1 2C AB 2F 48 DF 05 B4	13 9C 3 88 7C 4 22 60 0	37 8D 63 36 E 1A 44 29 79 A 24 01 E2 7F 4	89 3A DD B2 80 8E 5 F3 A9 F0 E4 83 5 4E 25 FA 01 5C	«⁄.7c6¹:Y²   HB ≧D)y¥ó©ðä : .´"`Ä.â∎EN%ú.∖		Clear DTC
000E 001C 002A 0038 0046 0054 0054	D1 2C AB 2F 48 DF 05 B4 D7 17	13 9C 3 88 7C 4 22 60 0 27 9B 7	37 8D 63 36 E AA 44 29 79 A C4 01 E2 7F 4 '3 41 DC B9 3	89 3A DD B2 80 8E 15 F3 A9 F0 E4 83 15 4E 25 FA 01 50 18 35 EE 87 86 DO	«∕.7⊂6¹:Y²  HB ³D)y¥co©ðä : .′"`Ä.å∎EN%ú.∖ : ×.'sÀܹ85îÜ		Clear DTC
0000E 001C 002A 0038 0046 0054 0062 0070 007E	D1 2C AB 2F 48 DF 05 B4 D7 17 DE 91 18 A0	13 9C 3 88 7C 4 22 60 0 27 9B 7 69 9B 2 AA A3 9	37 8D 63 36 F AA 44 29 79 A C4 01 E2 7F 4 73 41 DC B9 3 PF 96 BF FA 8 77 D9 AA 82 F	39         3A         DD         B2         80         8E           15         F3         A9         F0         E4         83           15         F3         A9         F0         E4         83           15         F4         25         FA         01         50           18         35         EE         87         86         D0           11         D8         FA         48         5F         5A           16         A5         F3         6E         80         A4	<pre>% ~ (.7c61:¥2 HB 3D)y¥6@8ä  "````````````````````````````````</pre>		Clear DTC

#### Save to File ...

🐲 VVD12 - BMW V7.3.5 Remaining Synchronization Time: 8 days SN:VV20930097 — 🗆 X Options Unit Coding Key Learn Special Function Synchronize device time

- ---

Car Type		KWP-C.	AN bus	100	)Kbj	ps					~	
CAS ident	tificati	ion				(M Re	pair —					Connect
CAS ID		6942487								Read KM		
VIN		WBAGN41	070DM760	)15	]   к	M sto	red in C	AS	271905		$\exists      $	Read EEPROM
CAS type		CAS1			1					Write KM		
Prod. Date	e	2002.05.07				Synchi	onizatio	on Cod	es —			Write EEPROM
MSV/FSV/	osv	0.A.D8 / 6.0	C.8 / 2.3.0		]   c	AS co	de-DMI	E:	3926	Read Code		
HW/Cod.I	ndex	03 / 03			]  _				0000		=    L	Save to File
Diag.Index	¢	0310			]   0	AS co	de-EGS	:	0000	Write Code		Load From File
Addr: 0	0000	Hex: 00	Dec:	0	Bin	: 00	00000	0 As	scii: .			
Addr 00000 [0 000E 0	)0 5 )0 F	5 44 03 1 5 00 FC 0	H 4 08 08 0 EB 00	ex 78 ED	28 0 00 F	0 02 1 FF	00 0 FC F	0 OD F FF	A: UD .õ.ü.ë	scii .x( .i.ñÿüÿÿ		Synch DME-CAS
001C F 002A F 0038 A	FF 5 01 2 AB 2	4 A2 D4 C C 68 59 9 F 13 9C 3	8 84 10 9 23 D8 7 8D 63	72 8B 36	67 3 D1 F B9 3	E 20 3 21 A DD	61 9 AE A B2 8	0 EB E 94 0 8B	ÿT¢ÔÈ. Ñ,hY#Ø ≪∕.7c6	rg> aë Nó!®® ¹:ݲ		Synch CAS-ELV
0046 4 0054 0 0062 I	48 D 05 B 07 1	F 88 7C A 4 22 60 C 7 27 9B 7	À 44 29 4 01 E2 3 41 DC	79 7F B9	A5 F 45 4 38 3	3 A9 E 25 5 EE	F0 E FA 0 87 8	4 83 1 5C 6 DC	HB ≗D) .′"`Ä. ×.'sÀÜ	y¥o©ðä â∎EN%ú.∖ ¹85îÜ		Clear DTC
0070 I 007E 1 008C 1	DE 9 18 A 1F 3	1 69 9B 2 0 AA A3 5 F D8 9E D	F 96 BF 7 D9 AA 7 2D 86	FA 82 DC	81 D E6 A AB 6	8 FA 5 F3 C 3E	48 5 6E 8 38 D	F 5A D AA E 91	Þi∕¿úû . ≇£WÙ .?Ø×-U	ðúH_Z ªæ¥ćnª ~~1>8Þ		Clear Shadow
Reading dat	a suc	cess.									<u> </u>	

If you want to read the CAS mileage or modify the CAS mileage, please operate the corresponding menu "Read KM". It can also read CAS code-DME.

Car Type		KW	P-0	CA	Nk	ous	10	0 <b>K</b>	bps							~ [	Function	201 2
CAS ident	ificati	on —						-	- KM	Rep	air -							Connect
CAS ID		6942	487												Road KM			
VIN		WBA	GN4	107	0DM	760	15		КМ	store	ed in	CAS	5	271905	INEAU INM			Read EEPROM
CAS type		CAS	1												Write KM			
Prod. Date	9	2002	.05.0	7					Syn	chro	oniza	ition	Cod	es				Write EEPROM
MSV/FSV/	osv	0.A.0	08/0	6.C.8	3/2	.3.0			CAS	coc	le-D	ME:		3926	Read Code			Save to File
HW/Cod.I	ndex	03/	03						C.4.0				1	0000		-		bare to filem
Diag.Index	¢	0310	N.						CAS	COC	ie-E	65:		0000	Write Code		L	oad From File
Addr: 0	0000	He	x: 0	0	Dec	<b>;</b> ;	0	Bi	<b>n</b> :	000	000	000	As	cii: .				
Addr			0.2	1.4	0.0	He	70	20	0.0	0.2	00	0.0	0.0	Å:	scii			
000E 0	0 5	5 44	FC	00	EB	00	ED	20	60 F1	FF	FC	FF	FF	.õ.ü.ë	.i.ñÿüÿÿ		2	WINCH DME-CAS
001C F	F 5	4 A2	D4	C8	84	10 D9	72	67 D1	3E F3	20	61 AF	90 AF	EB	ÿT¢ÔÈ. ₩ bV#0	rg>aë	ľ	1.0	
0038 A	B 21	5 13	9C	37	2 J	63	36	B9	3A	DD	B2	80	8B	«/.7ce	1 : Ý2			Synch CAS-ELV
0046 4	8 D	7 88	7C	AA	44	29	79	Α5	F3	Α9	FO	E4	83	HB ªD)	y¥ó©ðä			
0054 0	15 B	4 22	60	C4	01	E2	7F	45	4E	25	FA	01	5C	. ("`À.	â∎EN%ú.∖			Clear DTC
0062   E	)7 1 )E C	7 27	9B	73	41	DC	B9	38	35	EE	87	86	DC	X.'SAU	185îU 840.7	3		
0070 L	8 4	1 69 1 88	9B 43	2r 57	96 D9	ΔA	ГА 82	σı E6	D8 45	FA F3	48 6E	SF 8D	5Α ΔΔ	ииз∿гч ИШа€	oun_2. ∃#¥ón ª			
0000 1	E 21	7 08	95	D7	20	86	DC	AB	60	3E	38	DE	91	201-1	.1\8b			Clear Shadow

3. Key programming steps: select "key learn—CAS Key Learn----Connect". Select "Get Key Info" and "Save Key Info".

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VVDI2 - BMW V7.3.5 Remaining Synchronization Time: 8 days SN:VV20930097 —
 Options Unit Coding Key Learn Special Europian Synchronize device time

Car Type	CAS	C	AS/EWS Informatio	on				~	Function		
		C	AS Key Learn						Cor	nect	
General in CAS ID: Key cuttin CAS remo Current ke	fo ng code: te control fre ey in ignition	FE M Fi E U	EM/BDC Key Learn lotorcycle Key Lea le Make Key CU/CAS ISN nlock Key	rn	type:	CAS1			Get Key Info		
Key Inform	nation										
Position	Key ID	Status	Туре	Info	Low	High	CFG	PS	Save Key Info	Load Key Info	
Key 1	9370B810	Enable	PCF 7936 transpo	002B00	5B1D94AC	9940	CE	43F		View all key	
Key 2	B6FC0041	Enable	PCF 7942-7944 r	004B00	D88071D8	F5C7	C8	4A!	Info	information in detail	
Key 3	68FD0041	Enable	PCF 7942-7944 r	004B00	D93408B2	AA98	C8	FE <sup>2</sup>			
Key 4	99BD7C97	Enable	PCF 7945 remote	004100	B1F24FF3	9E9D	C8	C4(	Prepare dealer ke	y with programme	
Key 5	B337F641	Enable	PCF 7942-7944 r	00C100	F82D5046	4EDB	C8	388			
Key 6	FFFFFFFF	Enable	Unknown	007608	2253C93B	980E	C8	AD	Prepare dealer key	with ignition switc	
Key 7	FFFFFFF	Enable	Unknown	007608	B7DF7B27	3F94	C8	4C:			
Key 8	FFFFFFF	Enable	Unknown	007608	A1BF4505	C3DB	C8	EE!	Add Kov	Papair Kaulass Ka	
Key 9	FFFFFFF	Enable	Unknown	007608	61207F7B	27EF	C8	880	Add Key	Repair Reviess Re	
Key 10	FFFFFFF	Enable	Unknown	007608	6CAA933A	5AC6	C8	30(	Enable Key	Disable Key	
<								>	Endble Key	Disable itey	

Reading data success.

4. Select an unused key position, be sure to select the "prepare dealer key with programmer" menu, and use the VVDI2 key programmer to generate the key. [Because the CAS1 module key identification socket or GODIAG BMW CAS1/CAS2 Mech-Key Test

#### Platform key sensor cannot generate dealer keys.]

(!		Паралия Списа

VVD12 - BMW V7.3.5 Remaining Synchronization Time: 8 days SN:VV20930097 - 
 X
 Options Unit Coding Key Learn Special Function Synchronize device time

Car Type	CAS	- CAN	N bus 100Kbj	ps				~				
General in	fo		6942487	1	CAS type:	CAS1				nnecc		
Key cuttir	ng code:		HA0003374	6					Get I	Key Info		
CAS remo	te <mark>control fr</mark>	equency:	868Mhz							10		
Current k	ey in ignition	switch is	Key 5						Write	Key Info		
Key Inforr	nation —				W							
Position	Key ID	Status	Туре	Info	Low	High	CFG	PS	Save Key Info	Load Key Info		
Key 1	9370B810	Enable	PCF 7936 transpo	002B00	5B1D94AC	<mark>994</mark> 0	CE	43F	Frase/Edit Key	View all key		
Key 2	B6FC0041	Enable	PCF 7942-7944 ru	004B00	D88071D8	F5C7	C8	4A!	Info Information			
Key 3	68FD0041	Enable	PCF 7942-7944 r	004B00	D93408B2	AA98	C8	FE <sup>2</sup>				
Key 4	99BD7C97	Enable	PCF 7945 remote	004100	B1F24FF3	9E9D	C8	C4(	Prepare dealer k	ey with programmer		
Key 5	B337F641	Enable	PCF 7942-7944 r	00C100	F82D5046	4EDB	C8	38				
Кеу б	FFFFFFF	Enable	Unknown	007608	2253C93B	980E	C8	AD	Prepare dealer ke	y with ignition switc		
Key 7	FFFFFFF	Enable	Unknown	007608	B7DF7B27	3F94	C8	4C:				
Key 8	FFFFFFF	Enable	Unknown	007608	A1BF4505	C3DB	C8	EE!	Add Key	Renair Keyless Ke		
Key 9	FFFFFFF	Enable	Unknown	007608	61207F7B	27EF	C8	88(				
Key 10	FFFFFFF	Enable	Unknown	007608	6CAA933A	5AC6	C8	30(	Enable Key	Disable Key		
<								>				

Reading data success.

5. After the dealer key is successfully programmed, place the key into the CAS1 module key module socket for testing. For test steps, please refer to the CAS1 module and key synchronization detection steps.

If the IMMO light cannot light up, enter the VVDI2 menu "Key Learn—CAS/EWS Information—Connect—Synch DME-CAS or Synch CAS-ELV" for synchronization. [When performing synchronization, the key must be placed in the VVDI2 device key sensing area.]

Car Typ	ar Type KWP-CAN bus 100					oKb	Kbps ~													
CAS ide	entificat	tion -							КМ	Repa	air —								Conne	ect
CAS ID		6942487							Read KM											
VIN		WBAGN41070DM76015						1	KM stored in CAS									Read EEPROM		
CAS typ	e	CAS1						11	Write KM									Read EEF North		
Prod. Date		2002.05.07							Synchronization Codes										Write EEPROM	
ISV/FSV/OSV		0.A.D8 / 6.C.8 / 2.3.0							CAS code-DME: Read Code								Save to File			
W/Cod	d.Index	03/0	03						202		1020		Г						Save to	rie
)iag.Ind	lex	0310							CAS code-EGS: Write Code								Load From File			
Addr:	0000	He	x: 0	0	Dec	:	0	Bi	n: I	000	000	00	Asc	;ii: .						
1ddr 0000 000E	<mark>00</mark> 9 00 P	5 44 5 00	03 FC	14 00	08 EB	He 08 00	78 ED	28   00 ]	00   F1 ]	02 FF 1	00 FC 3	00 0 FF F	)D FF	2 UD . 8. ü. é	lsc: <b>x</b> ∃.í	( .ñÿüÿÿ	^		Synch DM	E-CAS
01C 02A	FF 5 D1 2	4 A2 C 68	D4 1	C8 99	84 23	10 D8	72 8B	67 : D1 1	3E : F3 :	20 21 .	61 AE .	90 E AE 9 00 0	EB 94	ÿT¢ÔÈ Ñ,hY#(	.rg ØÑó	> aë )!®® ∀2			Synch CA	S-ELV
046	48 E	)F 88	7C .	ÀÀ	44	29	79	A5 1	F3 J	A9 1	52 F0 (	E4 8	33	HB ªD	)y¥	608a				
1054	D7 1	54 22 .7 27	60 і 9В	C4 73	41	E2 DC	7F B9	45 38 :	4E 3 35 1	25 . EE	87	01 5 86 D		. A X. 'sA	.a∎ ܹ8	EN%u.∖ 5îÜ	8		Clear D	тс
0070 007E	DE 9	1 69 0 AA	9B A3	2F 57	96 D9	BF AA	FA 82	81 J E6 J	D8 1 A5 1	FA F3	48 6E	5F 5 8D A	A	Þi⁄čú . ≇£WÍ	ØúH Ùªæ	I_Z ¥ónª				
008C	1F 3	F D8	9E .	D7	2D	86	DC	AB	6C :	3E	38	DE 9	1	.?Ø×-	Ü~1	>8Þ			Clear Shi	adow

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Thanks for reading!