

# GODIAG CAS2 CAS3 SER Semi Smart Test Platform

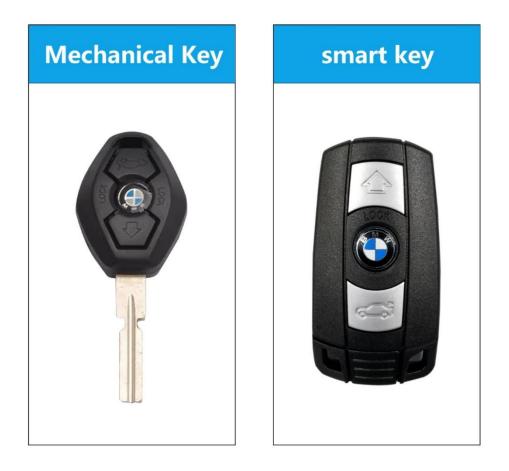


User Manual

2024 V1.1

**Product overview** 

Godiag CAS2 CAS3 SER Semi Smart Test Platform is a dedicated device developed for BMW locksmiths, maintenance engineers and CAS2 / CAS3,CAS3+ CAS3++ programming engineers. This product is suitable for magnetic semi-intelligent or smart keys. Note: This platform does not support mechanical key CAS2.



- 1. Check wheteher CAS2 / CAS3, CAS3+ CAS3++ modules and magnetic semi-intelligent/smart 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. CAS2 / CAS3, CAS3+ CAS3++ module diagnostics
- 4. CAS2 / CAS3, CAS3+ CAS3++ module programming

#### **Product Structure**

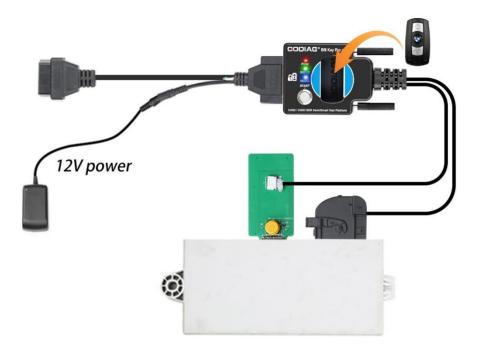


- (1) Check the start switch.
- (2) IMMO synchronization detection indicator light.
- (3) CAS module key induction coil indicator light.
- (4) Power indicator light.
- (5) Key identification port.
- (6) CAS module 41PIN connector.
- (7) CAS module 14PIN connector.
- (8) Analog start-stop switch.
- (9)Start/stop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

## Functions:

A. Module and key synchronization detection:

Check whether the CAS2 / CAS3, CAS3+ CAS3++ module and the magnetic semi-intelligent smart key can be synchronized:



Step 1: Connect the CAS2/CAS3, CAS3+ CAS3++ modules according to the connection diagram.

Step 2: Put the key into the key sensing area.

Step 3: Connect the power supply and the corresponding power indicator light will light up. The start/stop button light is on. The coil sensor light will flash. [Indicates that the module can send out the key sensing signal normally. If the key and the module are synchronized, the light will flash regularly or stay on. If the key and module are out of sync, the flashing will be irregular and will stop after one minute.]

Step 4: Press the start switch. [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 indicator light will not light up and the internal buzzer of the machine will not sound.]

Step 5: Press the analog start and stop button, the IMMO synchronization detection indicator light will go out after 3 seconds. Press the analog start/stop button again and the IMMO synchronization detection indicator light will light up.

The following uses Xhorse vvdi2 device to perform BMW CAS2/CAS3, CAS3+ CAS3++ semi-intelligent/smart key programming and matching operations:

1. Connect the CAS2/CAS3, CAS3+ CAS3++ module and the key programming diagnostic device according to the connection diagram.



#### 2 Select "key learn-CAS Key Learn---Connect".

Car Type CAS		CAS/EWS Information			nchronize d				- Function	
						~				
General info		CAS Key Learn FEM/BDC Key Learn							Connect	
CAS ID: Key cutting code:			otorcycle Key Lea le Make Key	type:	type: CAS2			Get Key Info		
CAS remote control fre Current key in ignition					>				Write	Key Info
(ey Inform	nation —									1
Position	Key ID	Status	Туре	Info	Low	High	CFG	PS	Save Key Info	Load Key Info
Key 1	EA6D0244	Enable	PCF 7942-7944 r	004B00	EDCCDD23	9644	C8	7E(	Erase/Edit Key	View all key
Key 2	C3750244	100000000	PCF 7942-7944 r	19121240	PERSONAL A	C6A6	C8	51/	Info information in detail	
Key 3	01FD229B	Enable	PCF 7945 remote	004300	E7F11F82	EF33	C8	BE <sup>2</sup>		
Key 4	FFFFFFF	Enable	Unknown	F07608	806E0B31	9344	C8	318	Prepare dealer key with programmer	
Key 5	7FB1231A	Enable	PCF 7936 transpo	F02100	5CC7261B	8583	C8	106		
Key 6	FFFFFFF	Enable	Unknown	F07608	CF49C9D0	7A2E	C8	OFE	Prepare dealer key with ignition switch	
Key 7	04502A15	Enable	PCF 7936 transpo	F02100	E33F970C	D490	C8	3F7		
Key 8	FFFFFFF	Enable	Unknown	F07608	17ED322A	7757	C8	4DI		Danais Kaulasa Kau
Key 9	FFFFFFF	Enable	Unknown	F07608	02BBEEF9	C10B	C8	522	Add Key Repair Keyless	
Key 10	FFFFFFF	Enable	Unknown	F07608	B9621213	617E	C8	2C:	Enable Key	Disable Key
<		Endblic	onulovin	107000	DJOLILIO	01/2	00	>	Enable Key	Disable Key

3. After successfully identifying the CAS information, select "Get Key Info" and "Save Key Info".

ar Turne	~ ~	C 13							- Function	
CAS - CAN bus 100Kbps								~	Connect	
General in CAS ID:	fo ———		9147224		CAS type:	CAS2				
Key cutting code: HA00020818				18					Get Key Info	
CAS remote control frequency: 315Mhz LP										
Current key in ignition switch is: Key 2									Write Key Info	
Key Inform	nation ——									-
Position	Key ID	Status	Туре	Info	Low	High	CFG	PS	Save Key Info	Load Key Info
Key 1	EA6D0244	Enable	PCF 7942-7944 r	004800	EDCCDD23	9644	C8	7E(	Erase/Edit Key	
Key 2	C3750244	Enable	PCF 7942-7944 r	024800	DBCA0984	C6A6	C8	51/	Info	information in detail
Key 3	01FD229B	Enable	PCF 7945 remot	e 004300	E7F11F82	EF33	C8	BE <sup>2</sup>		-
Key 4	A COLOR MARKET COLOR		Unknown	F07608	806E0B31	9344	C8	318	Prepare dealer ke	y with programmer
Key 5	7FB12 Atte	ention						0	× [	
Key 6	FFFFFF								Prepare dealer key	with ignition switch
Key 7	04502		Please use "Save Key	Info" to	save the origin	hal key i	informa	ation.		
Key 8	FFFFF	100							Add Key	Repair Keyless Key
Key 9	FFFFF							-		repair repleasing)
Key 10	FFFFFF						碑	定	Enable Key	Disable Key

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. If the key is placed in the GODIAG CAS2 CAS3 SER Semi Smart Test Platform key sensing area, the dealer key will not be generated.



or Type	CLO	<b>C</b> 13	The 400171					~	Function	
CAS - CAN bus 100Kbp				os				Connect		
General in	fo ———		9147224		CAS type:	CAS2				
CAS ID:									Get Key Info	
CAS remote control frequency: 315Mhz LF								Get Key Into		
				1					Write Key Info	
	ey in ignition	switch is	: Key 2	S.					Write	Key Ino
Key Inform	Kev ID	Status	Turne	Info	Law	Hiah	CFG	PS	Save Key Info	Load Key Info
	1.		Type		Low	0.0400	10507.3	1626		
Key 1 Key 2	EA6D0244 C3750244	1071117070	PCF 7942-7944 r	100000	100 000 000	9644 C6A6	27.0	7E(	Erase/Edit Key Info	View all key information in detail
Key 3	01FD229B	Enable	PCF 7945 remote	004300	E7F11F82	EF33	C8	BE₄		
Key 4	FFFFFFF	Enable	Unknown	F07608	806E0B31	9344	C8	318	Prepare dealer key with programmer	
Key 5	7FB1231A	Enable	PCF 7936 transpo	F02100	5CC7261B	8583	C8	100		
Кеу б	FFFFFFF	Enable	Unknown	F07608	CF49C9D0	7A2E	C8	OF6	Prepare dealer key	with ignition switch
Key 7	04502A15	Enable	PCF 7936 transpo	F02100	E33F970C	D490	C8	3F7		
Key 8	FFFFFFF	Enable	Unknown	F07608	17ED322A	7757	C8	4DI		
Key 9	FFFFFFF	Enable	Unknown	F07608	02BBEEF9	C10B	C8	522	Add Key Repair Keyle	
Key 10	FFFFFFF	Enable	Unknown	F07608	B9621213	617E	C8	2C:	Enable Key	Disable Key
<								>	Elidble Key	Disable Key

5. After programming the dealer key, put the key into the Godiag CAS2 CAS3 SER Semi Smart Test Platform induction port for testing. For test steps, please refer to "Synchronous Detection of Module and Key".

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



T	CAS/EWS Int	formation			Function
Car Type CAS identificat AS ID	CAS Key Lea ion FEM/BDC Ke	rn y Learn			Connect
'IN :AS type	Motorcycle I MBAUI File Make Ke CAS2 ECU/CAS IST	ey l	XAS	Read KM	Read EEPROM
Prod. Date	2006.02 Unlock Key	<b>,</b>	on Codes		Write EEPROM
MSV/FSV/OSV HW/Cod.Index	0.0.0 / 6.4.2 / 3.3.0	CAS code-DM	4E:	Read Code	Save to File
Diag.Index 06A0		CAS code-EG		Write Code	Load From File
Addr: 0000 Addr 0000 00	Hex: 00 Dec: 0 Hex	Bin: 000000	00 Ascii: .	Ascii	Synch DME-CAS
					Synch CAS-ELV
					Clear DTC
					Clear Shadow



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Thanks for reading!