INPA User's manual

Chapter 1 Product introduction

1. INPA description:

- * Support of all ECU use cases in Engineering, Test, Production and After Sales
- * Specification of ECU's diagnostic data
- * Reading and clearing error memory
- * FLASH data uploading and downloading
- * Reading measurement value
- * Input/output control
- *Calibration of single ECU variables
- * Coding of ECU variables
- * CAN (controller Area Network) bus mode emulation
- * Integrated solutions for on-board/off-board
- * Fast and simple configuration of GUI and communication data instead of programming
- *Customer specific protocols supported
- * Long term application by supporting widespread ASAM standards
 * Language is English and German

2. INPA Hardware and Software Configuration:

No.	Specification	Quantity
1.	Main unit (Include data analyzer)	1
2.	Notebook Power line (110V-240V)	1
3.	20-PIN Connector	1
4.	16-PIN Connector	1
5.	INPA Software (version 5.0)	1

3. INPA Models covered:

1 series E87

3 series E30 E36 E46 E90

5 series E34 E39 E60 E61

6 series E63 E64

7 series E32 E38 E65 E66

8 series E31 E52 Mini R50 R52 R53 X series E53 E83

Rolls Royce

Z series E85 E52.

4. Notice of using INPA:

- 1) Before using this equipment, keep the battery of notebook fully charged to avoid battery broken. Don't charge the battery while diagnosing. Before charging, discharge the battery. You may knock down the battery and connect the power line during long time diagnosing. To make sure the battery life.
- 2) While testing, to make sure the diagnostic lines well connected.
- 3) Be sure to start diagnosing after all icons on bottom right of screen displayed regularly.
- 4) After finished diagnosing, back the screen to the main interface, then shut down the key and pull out the connector.
- 5) Don't cut the power or connector during test.
- 6) Don't touch the high temperature components in carriage during test.



BMW INPA Engineer diagnosing equipment has the powerful function which can do programming and diagnosing of both latest and old BMW serials car, such as E39, E60, E65, and the communication speed much faster than GT-1. It only

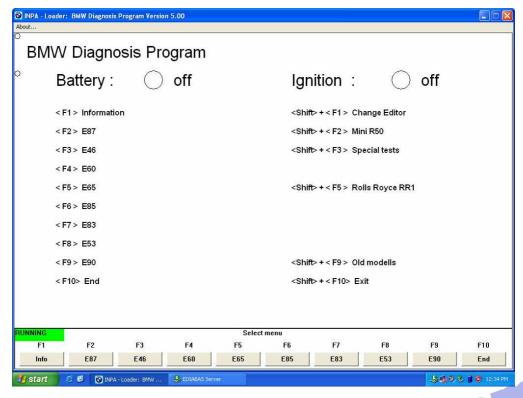
needs 6 seconds to scan out all trouble codes of the car which has CANBUS gateway communication, such as E60,E65, and 5 seconds for old car coding, such as E39. Moreover, it can not only test MINI, Rolls Royces car, but also rewrite the data of BMW computer board.

1. The brief of BMW E60 diagnosing screen as following:

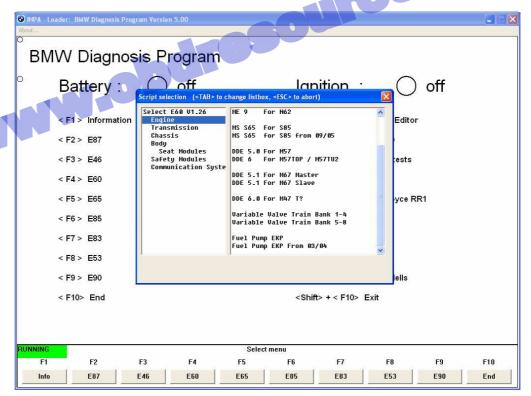


- **1)**. Above screen displayed after open the main unit, then, enter the pcmodic start diagnosing.
- 2). Click F4 when the vehicle models screen shown up, enter E60.

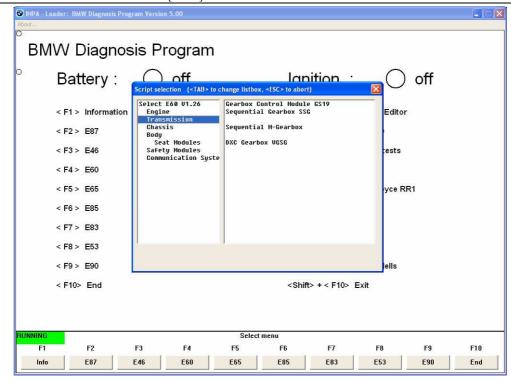
Note: Latest BMW models, such as E60、E65、E90、E87, etc, each can be entered by click. For the old car, such as E38、E39、E53, etc, long press SHIF and F9 to select the vehicle models for diagnosing.



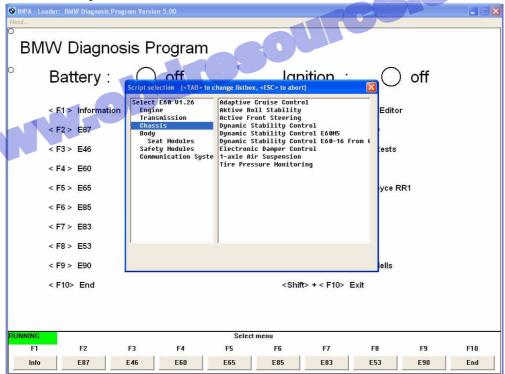
3). Select "Engine", all engine models shown up, then, select the one which you need to test. If not available, it might be selected engine not matched with the tested car.



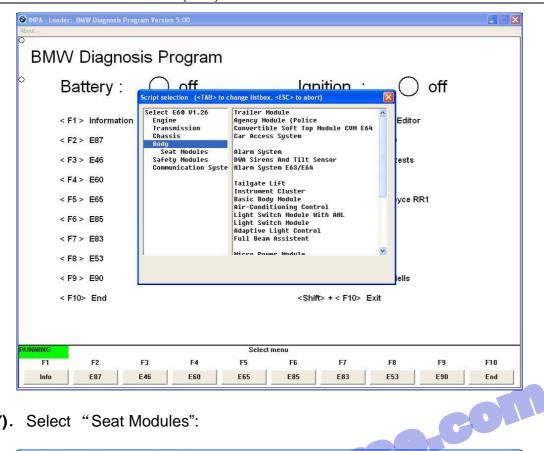
4). Select "Transmission" to enter the selection interface, then click the matched transmission model.



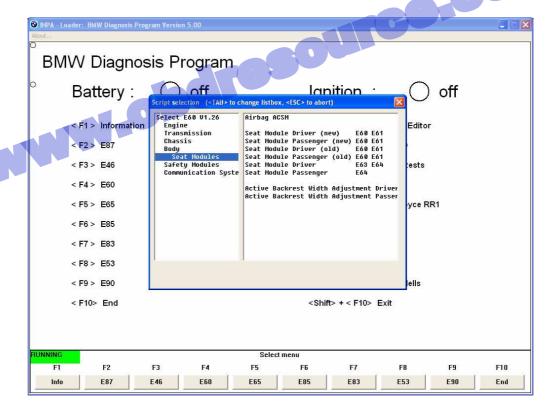
5). Select "Chassis" to enter chassis selection interface, then click the relative control system.



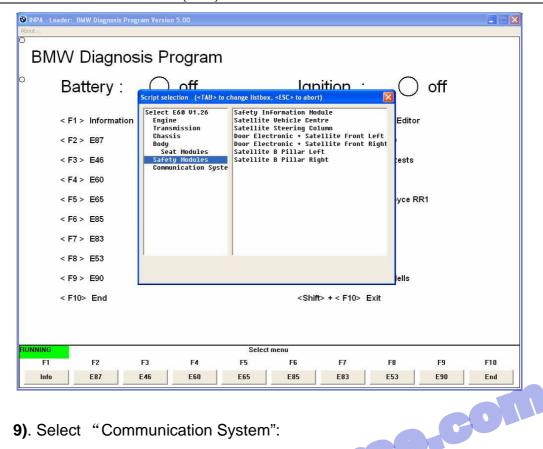
6). Select "Body" to enter body selection interface, then, click the relative body control system.



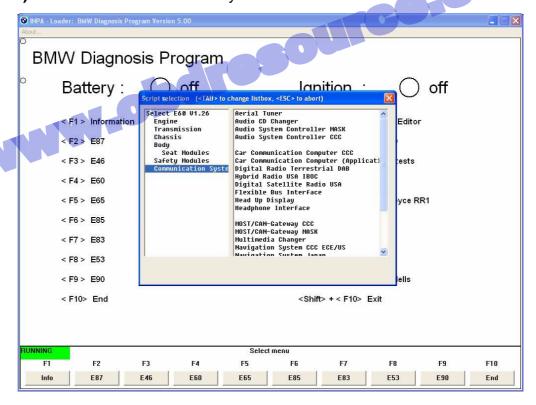
7). Select "Seat Modules":



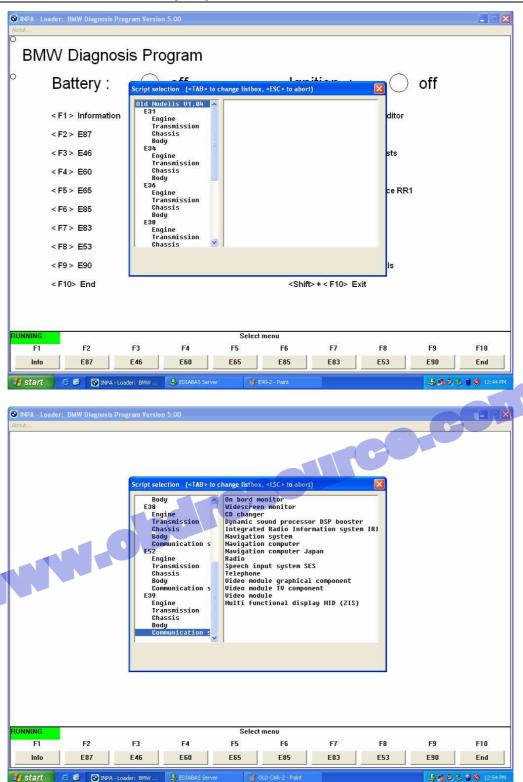
8). Select "Safety modules" to enter it:

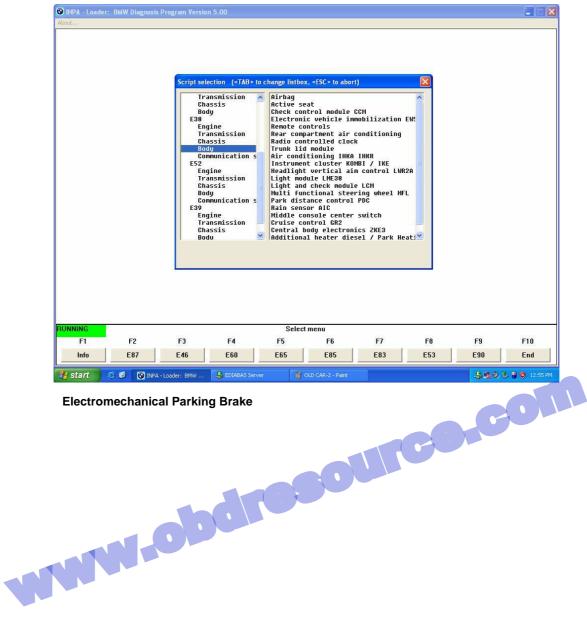


9). Select "Communication System":



2. Screen shots of Old model cars.

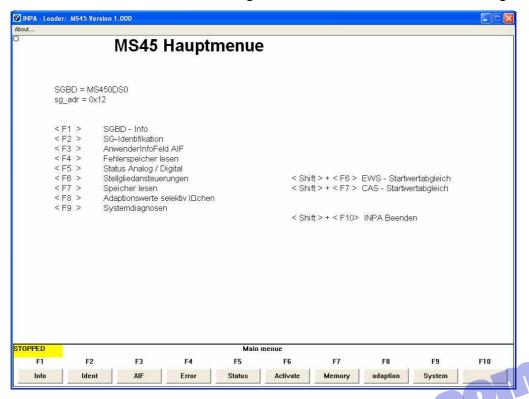


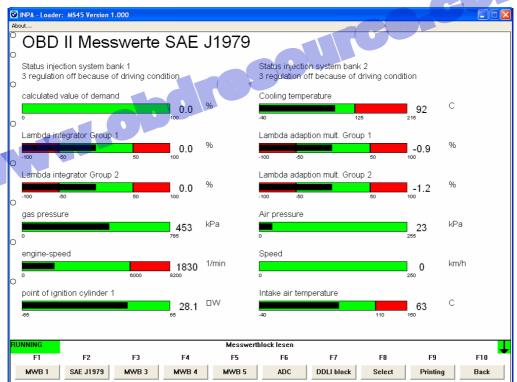


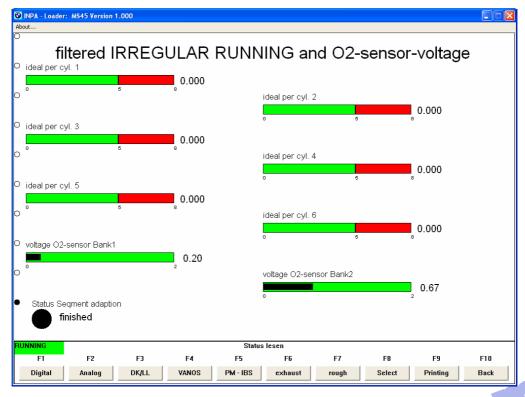
3. Take M54 engine of Serial E60 as sample to introduce it.

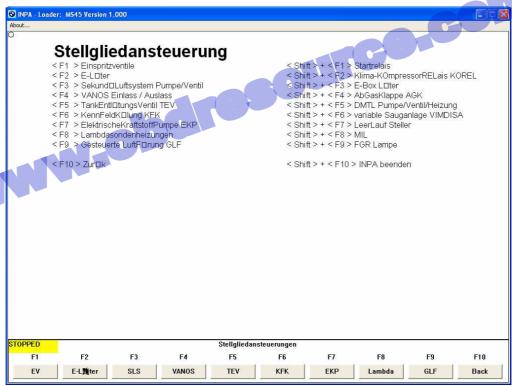
Notice: After selected E60, click the engine, there must be lots of engine

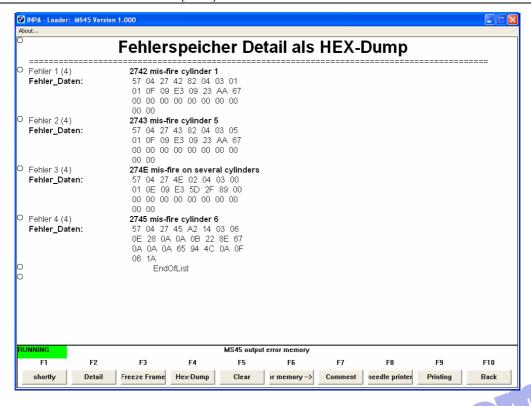
system, the old 530 must be M54 engine, the latest 530 must be N52 engine.

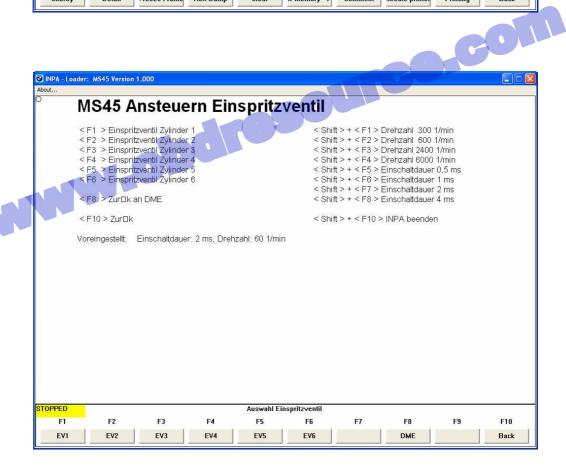


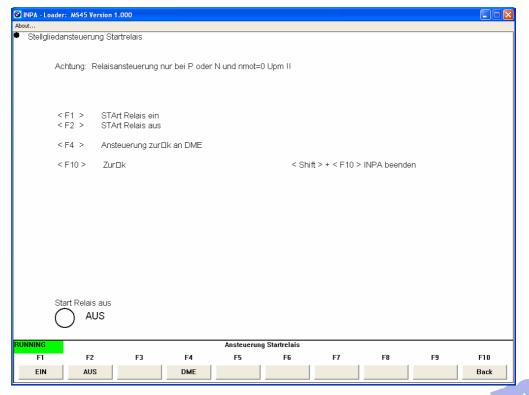


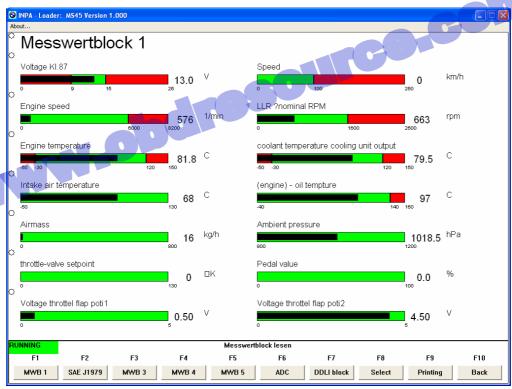


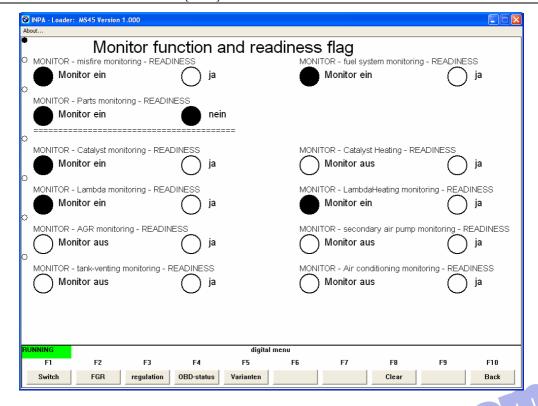


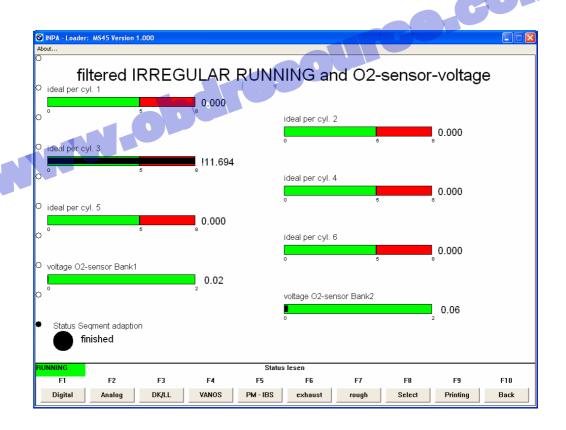


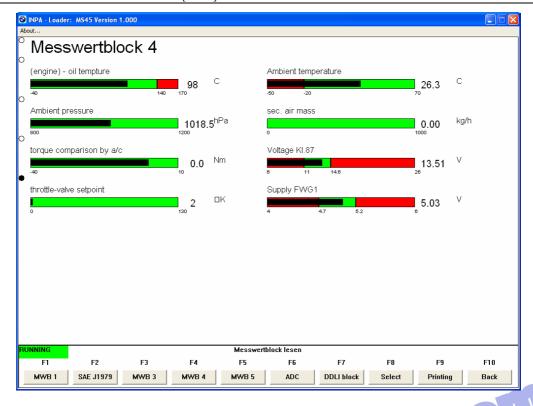


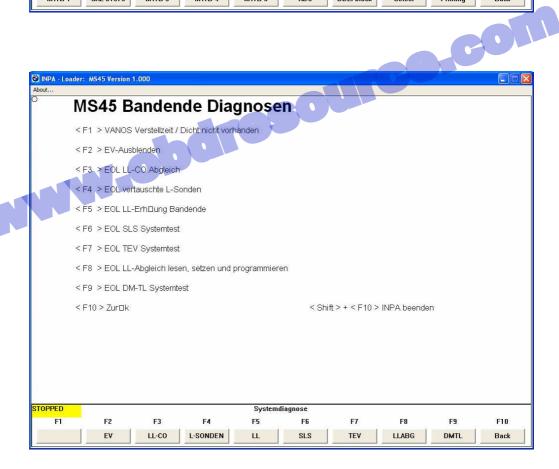


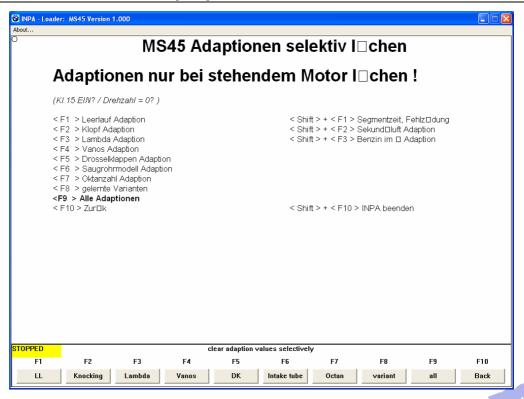


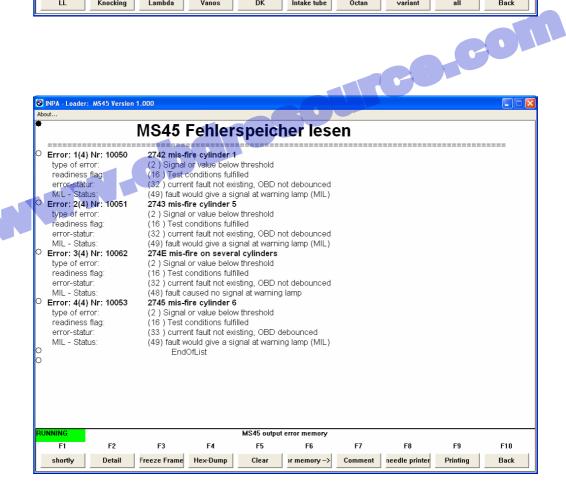


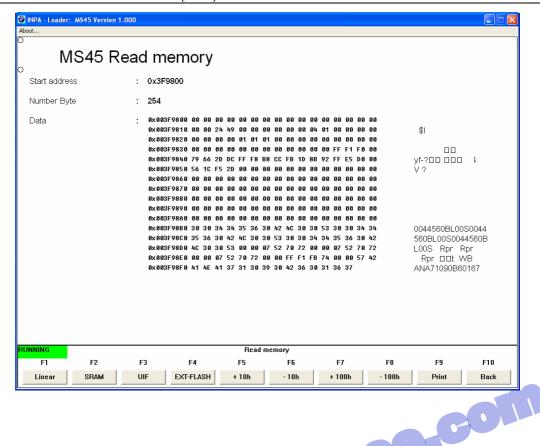


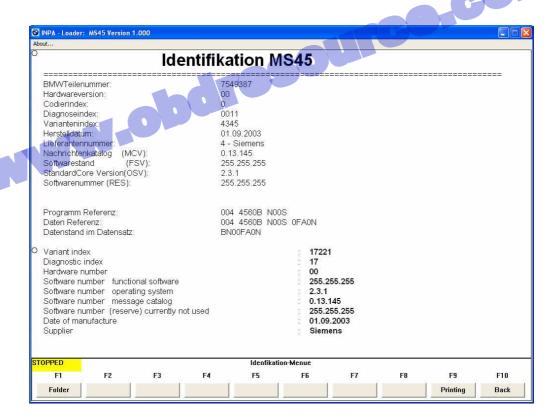




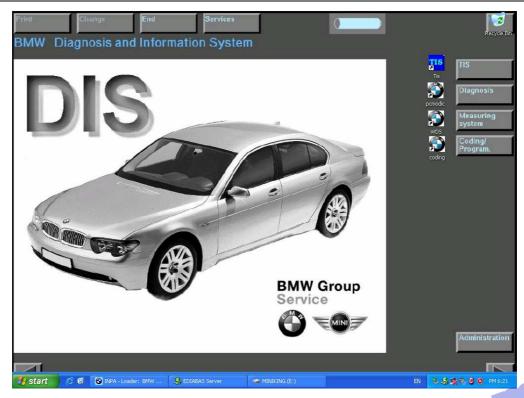






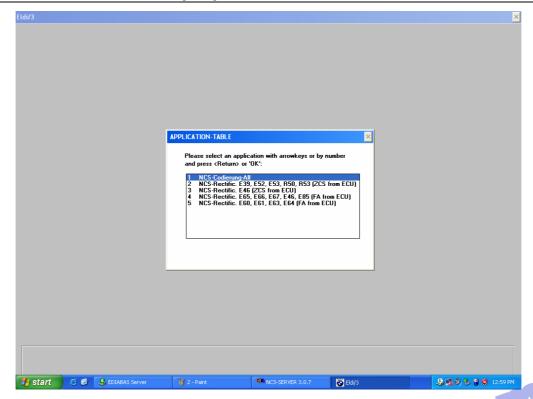


4. Short introduction of coding and programming:



1). Click the Coding of the main page to enter the coding and programming interface.



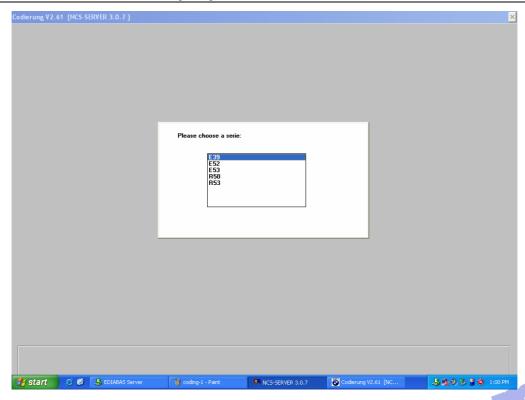


Above is the car model selection interface of the coding and programming car. The first item is non-distinguish the car model, it needs to enter the serial numbers of the chassis, engine and transmission, etc.

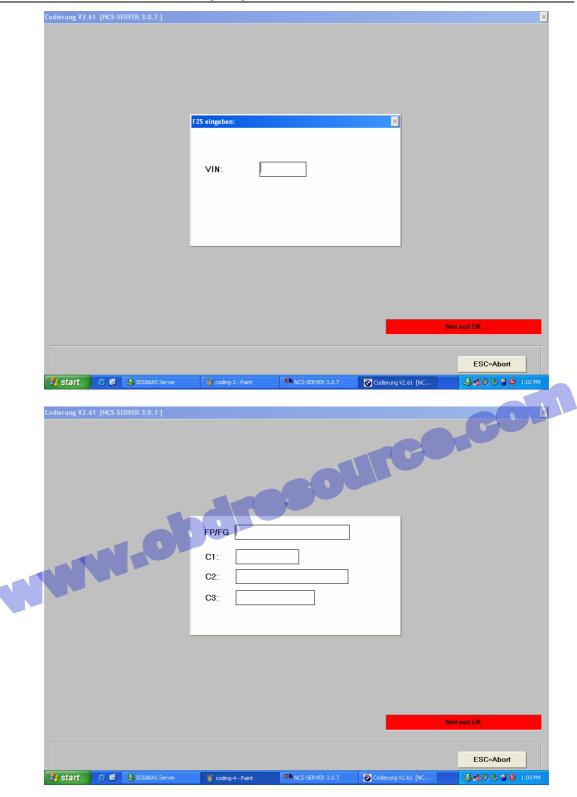
The second item is the programming of E39, E53 and other old model cars, after selected the car model, then select the module which one need to program, open the key, and press enter.

The second and third items can do programming directly.

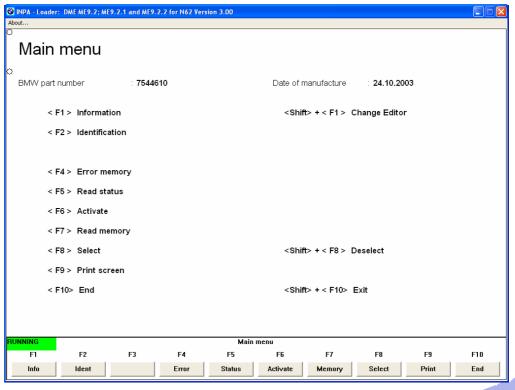
For the forth and fifth items need to enter the relative serial number. Cars model such as E60, E65.

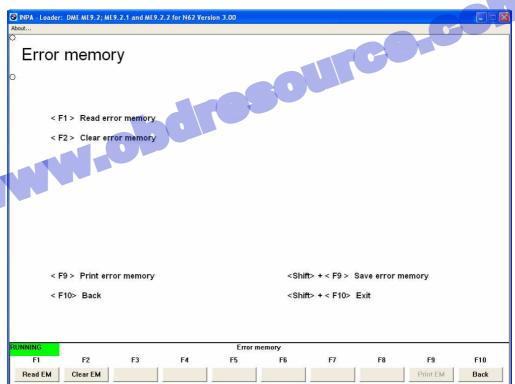


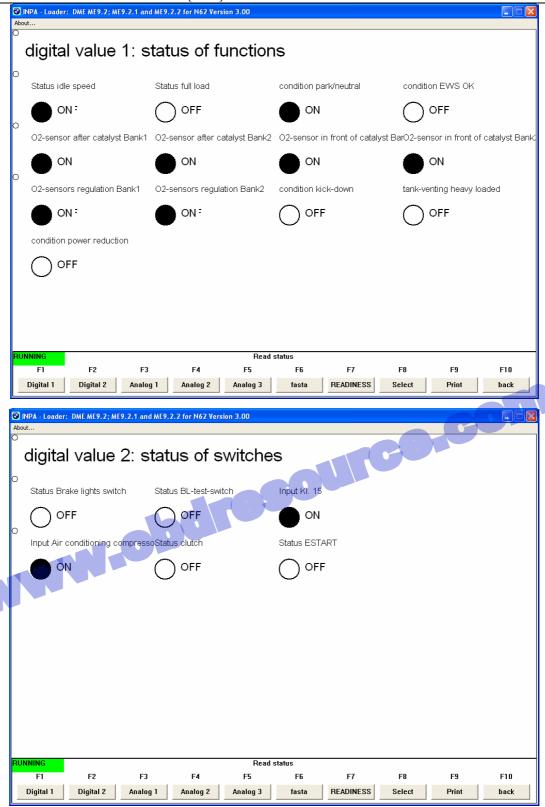


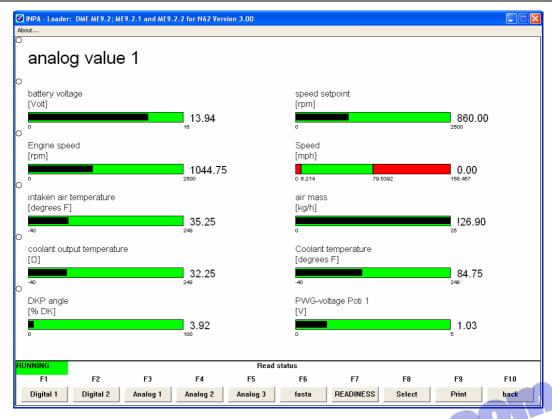


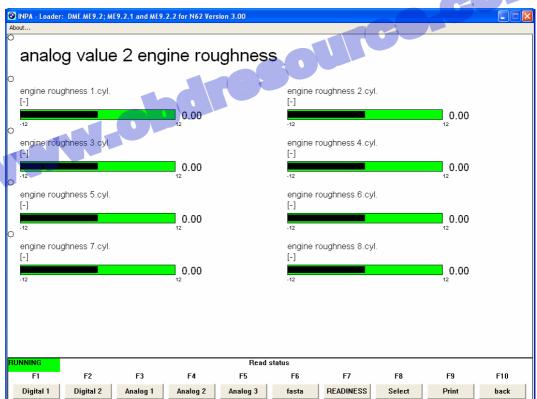
Chapter 3 Screen shots of E65 Diagnosing

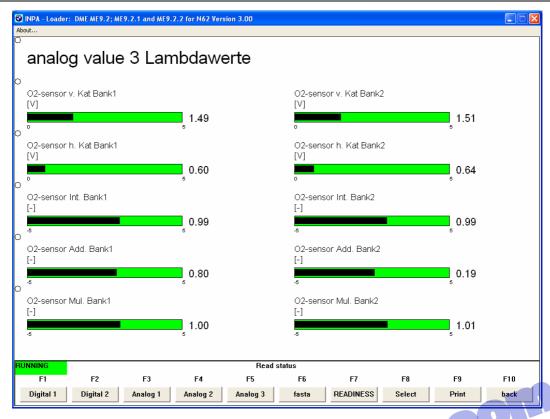


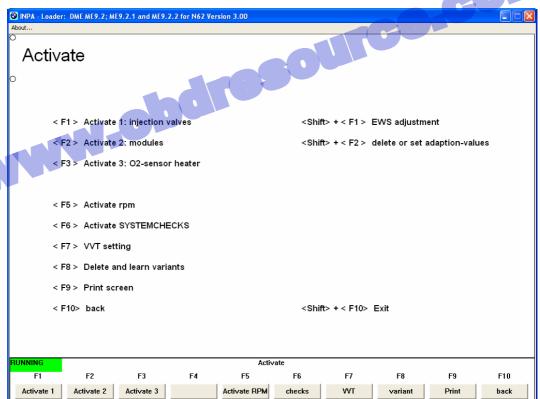


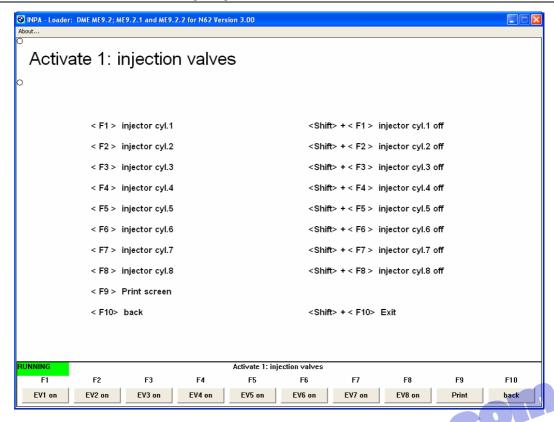


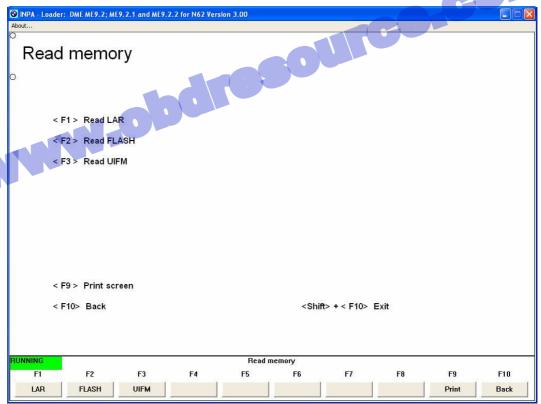


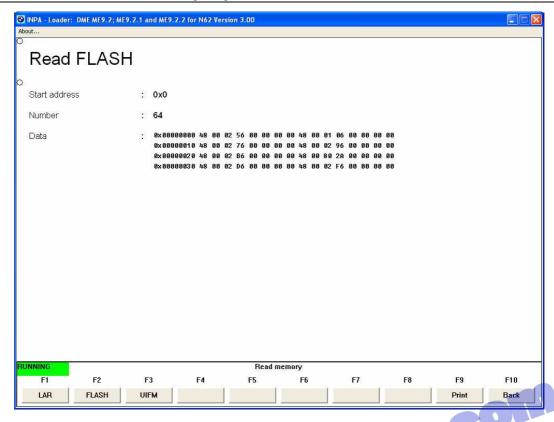


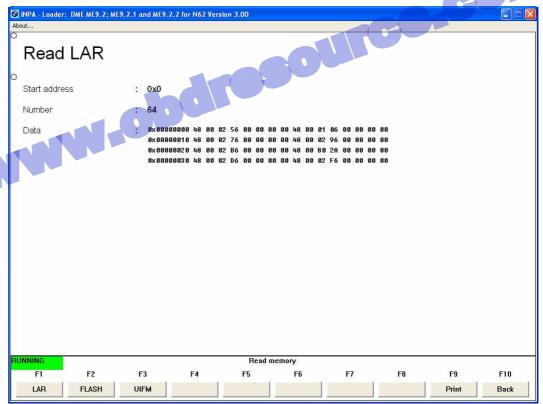


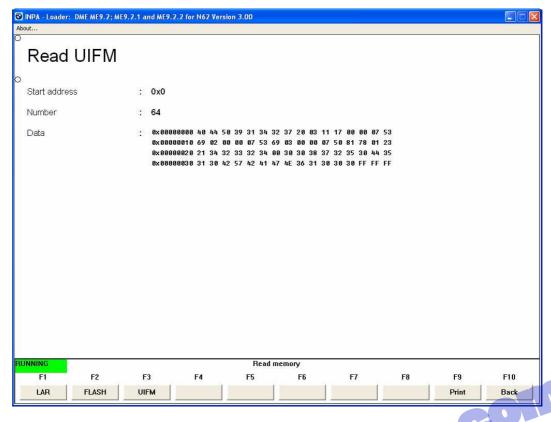




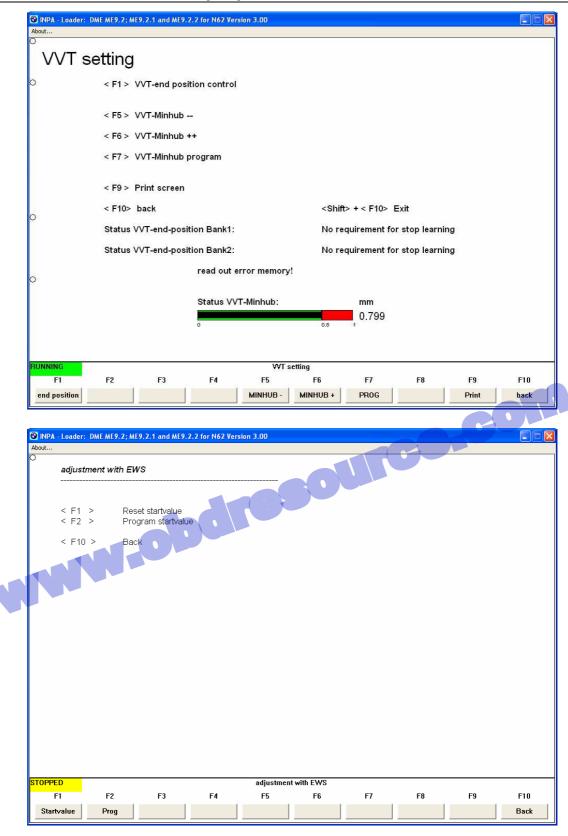












Notice: Using this function must be carefully, through this function can reset the Anti-theft system, and lock the computer of Engine that might cause the engine misfire, and make the trouble codes stored inside the Engine ECU. But it can active the system through reprogram the Anti-theft system under the situation

of system without any trouble.

