

**Trade Show**



● Exhibited at Taipei AMPA in April, 2009.

**iSCAN-II / D91 Latest Versions (March, 2009)**

iSCAN-II RENAULT	V1.02	English/Chinese/Japanese	2009-03-02
iSCAN-II CITROEN	V1.02	English/Chinese/Japanese	2009-03-02
iSCAN-II PEUGEOT	V1.02	English/Chinese/Japanese	2009-03-02
iSCAN-II IMS2-BMW	V1.00	English/Chinese	2009-03-20
iSCAN-II IMS2-MB	V2.00	English/Chinese/Japanese	2009-03-20
iSCAN-II IMS2-VOLVO	V2.00	English/Chinese/Japanese	2009-03-20
iSCAN-II OBDII	V1.03	English/Chinese/Japanese	2009-03-20
iSCAN-II PROTON	V1.01 SP1	English	2009-03-20
iSCAN-II TOYOTA	V2.00	English/Chinese/Japanese	2009-03-20
IMS2-MB ADD-ON	V2.50	English	2009-03-20
D91-NISSAN	V3.55 SP1	English/Chinese/Japanese/ Spanish	2009-03-20
D91-OBDII	V4.03	English/Chinese/Japanese	2009-03-20
D91-OBDII-R	V4.03R	English/Chinese/Japanese	2009-03-20
D91-PROTON	V1.50 SP1	English	2009-03-20

## VeDiS Yearly Update Project (YUP) Software

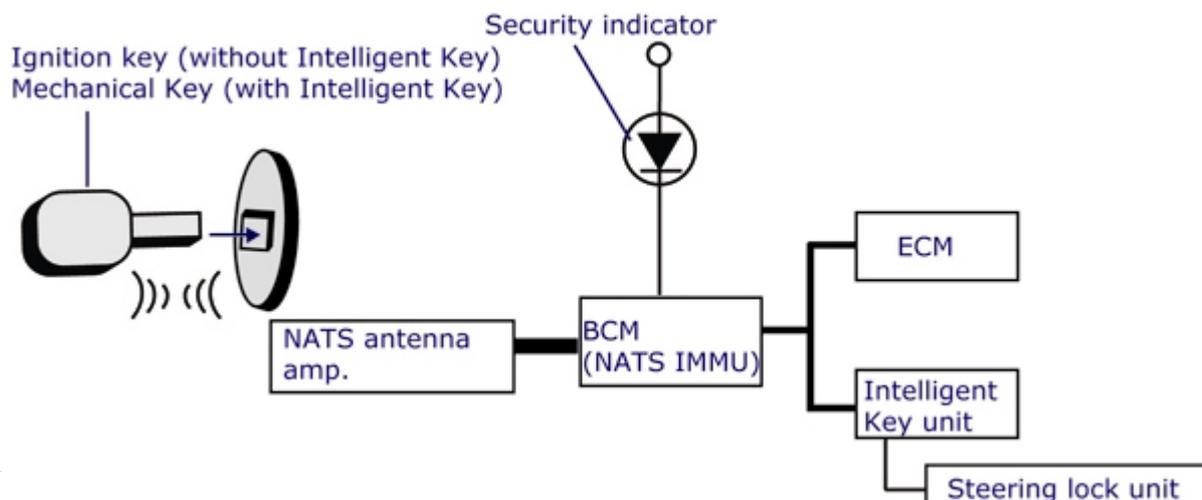
Software releases monthly for D91-EURO PRO YUP 2009 / D91-ASIAN PRO YUP 2009 YUP customers, please get the updates from web site

## Technical Guidance

### NISSAN: NATS (Nissan Anti-Theft System) Setting

#### **NATS System**

The key transponder contains a wireless electronic chip (transponder chip). When the key is inserted into the lock cylinder and switch "ON", the transponder chip will send a signal to the immobilizer (inside BCM). Then BCM would send a command to engine ECU which allows engine to start. If the signal is incorrect, BCM will lock the fuel pump and disable the engine from be started.



#### **NATS Initialization**

1. NATS includes 2 kinds of keys:
  - 1) Ignition Key--- without Intelligent Key
  - 2) Mechanical Key ---with Intelligent Key
2. Every key initialization will clear all key entries. It is necessary to register all the keys. Non-registered keys can not start the engine.
3. Before key initialization, please get the 5-digit BCM PIN first, then provide it to the dealer and get a corresponding 4-digit password.

#### **Conditions to perform key initialization**

- Replace BCM, it is necessary to perform all ignition keys / mechanical key (door key) initialization.
- Replace a used ECM, it is necessary to perform all ignition keys initialization.
- Replace the antenna amplifier, it is necessary to perform all ignition keys initialization.
- Replace a new ECM, it is not necessary to perform initialization. Turn ignition switch to ON for 5 seconds then turn ignition switch to OFF by ignition key, the ignition key will be automatically initialized. If the ignition key is unable to start the engine, it is necessary to perform initialization.

### Ignition Key Registration

1. Insert the first ignition Key, turn ignition switch to ON and maintain at least 5 seconds. Then turn ignition switch to OFF and pull out the ignition key.
2. After 5 seconds when security indicator flashes, insert the second ignition key and turn ignition switch to ON and maintain at least 5 seconds. Then turn ignition switch to OFF and pull out this ignition key.
3. Repeat the steps if more keys, maximum to 5 ignition keys.
4. Start the engine, and the procedure is completed.
5. Use every key to start the engine and confirm if every key works.

### Preparatives:

- If all the keys were lost, please buy 2 keys (built-in transponder). If the original key trace is still available, make 2 duplicates of the original keys first. If there is no original key trace, please change the locking system of the car and make 2 duplicates of the new key in advance.
- If there is one key available, please make one or more duplicates (built-in transponder) from the original key.
- If the transponder of the key is malfunctioned, please buy the transponder. Use the screwdriver to replace the transponder.
- If the ECM/PCM or the immobilizer receiver unit is malfunctioned, please replace a workable unit first.
- Please confirm all wire connection between ECM/PCM and immobilizer control unit-receiver, the conditions of coil of key ignition, and the intactness between communication wire and immobilizer.

## NISSAN --- I-KEY (Intelligent Key) Setting

### Introduction of I-KEY

1. The Intelligent Key system is a system that makes it possible to lock and unlock all the doors (door lock/unlock function) and start the engine (engine start function) by carrying around the Intelligent Key.
2. Operation of the remote controller buttons on the Intelligent Key can lock and unlock the door and enter anti-theft condition.

### Caution of I-KEY Registration

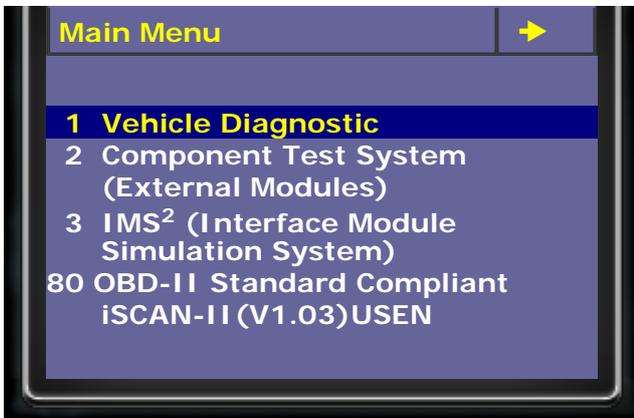
1. Only the registered I-Key is with the function to lock/unlock the door and start the engine.
2. Perform Adaptation of I-KEY system by iSCAN-II to register I-KEY ID.
3. A maximum of 4 I-Key can be registered. More than 4 IDs, the earliest ID will be deleted.
4. Replace BCM, it is necessary to perform NATS ignition key registration first, then perform I-Key registration. Confirm both of NATS and I-Key systems will be workable.
5. Register 2nd I-Key, please take the 1st registered I-KEY 3-meter away from the vehicle, to avoid 2 I-Keys interfering each other.

### Steps on iSCAN-II:

## NISSAN ---NATS Setting

1. Select **Vehicle Diagnostic** → select **ASIAN**





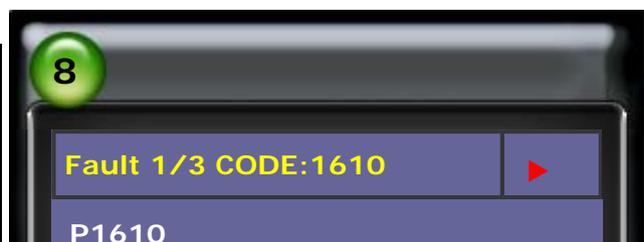
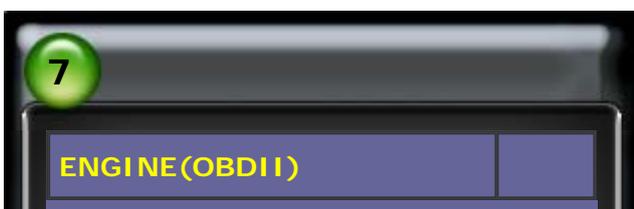
2. Select **JAPAN** → select **NISSAN** software



3. Select **Drive** → select **Petrol Engine, ALL**



4. Select **Read Fault Code** → confirm the fault from NATS malfunction



- 1 ECU version
- 2 DATA STREAM
- 3 Read Fault Code**
- 4 Clear Fault Code
- 5 Activation Test
- 6 Data Stream Waveform
- 7 ADAPTATION
- 8 NATS

**NATS MALFUNCTION: Lock Mode.** When the starting operation by INVALID keys is carried out five or more times consecutively under the following conditions, NATS will shift the mode to one which prevents the engine from being started

9

Fault 2/3 CODE:1614

P1614  
NATS MALFUNCTION: CHAIN OF IMMUNO-KEY.  
IMMU cannot receive the key ID signal

10

Fault 3/3 CODE:1615

P1615  
NATS MALFUNCTION: DIFFERENCE OF KEY.  
IMMU can receive the key ID signal but the result of ID verification between key ID and IMMUNO is NG

5. Select **Clear Fault Code**

11

ENGINE(OBDII)

- 1 ECU version
- 2 DATA STREAM
- 3 Clear Fault Code
- 4 Clear Fault Code**
- 5 Activation Test
- 6 Data Stream Waveform
- 7 ADAPTATION
- 8 NATS

12

Fault 1/1 CODE:1610

P1610  
NATS MALFUNCTION: Lock Mode. When the starting operation by INVALID keys is carried out five or more times consecutively under the following conditions, NATS will shift the mode to one which prevents the engine from being started

6. Select **Body** → select **BCM (Body Control)**

13

System selection

- 1 Drive

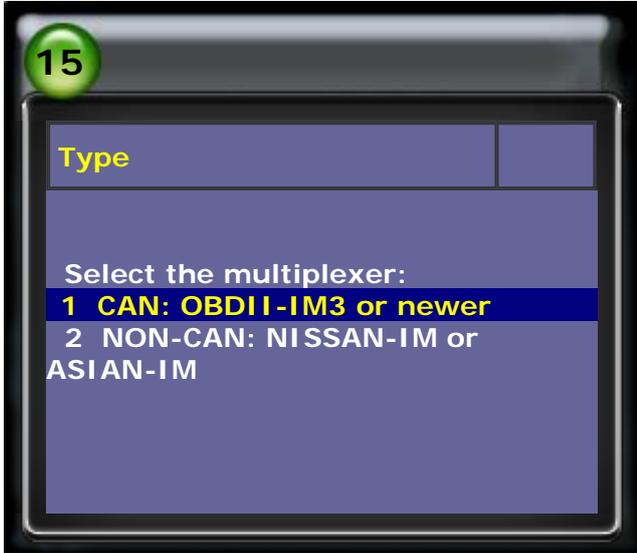
14

System selection

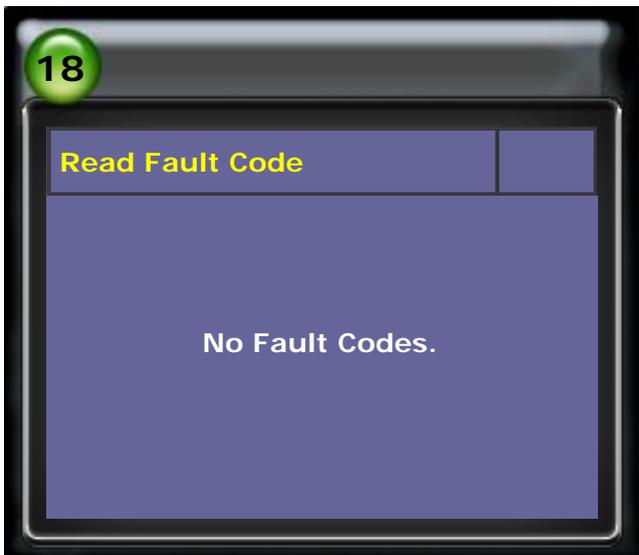
- 1 Air bag
- 2 IVMS (Interior Control System)
- 3 BCM (Body Control)**



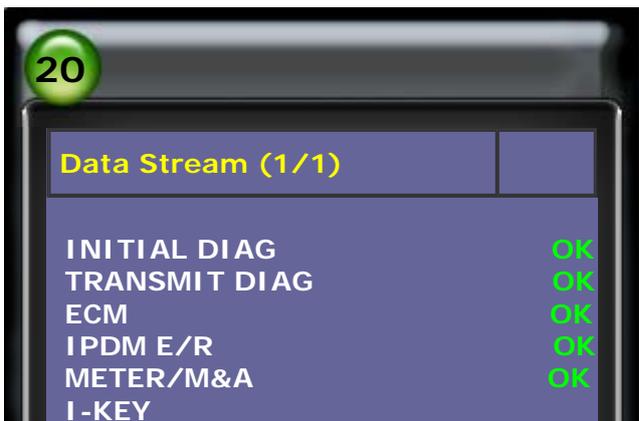
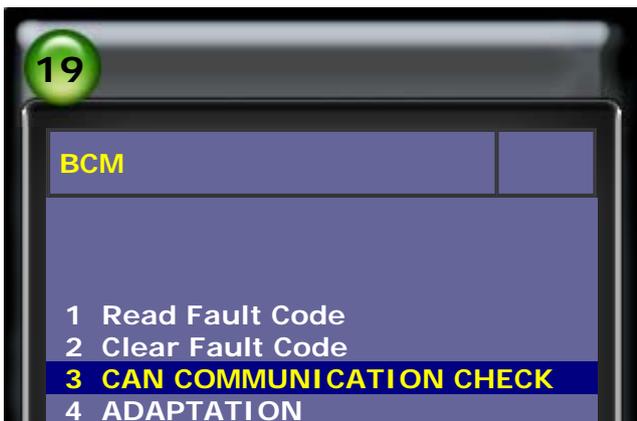
7. Select **BCM**

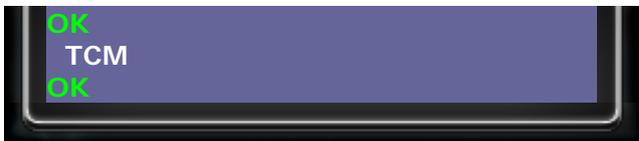
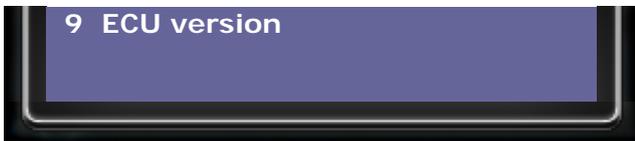


8. Select **Read Fault Code** → confirm **No Fault Code** in BCM system



9. Enter **CAN COMMUNICATION CHECK** to check the CAN communication between BCM and other related ECU.





10. Enter **ADAPTATION** → select **Read BCM PIN**

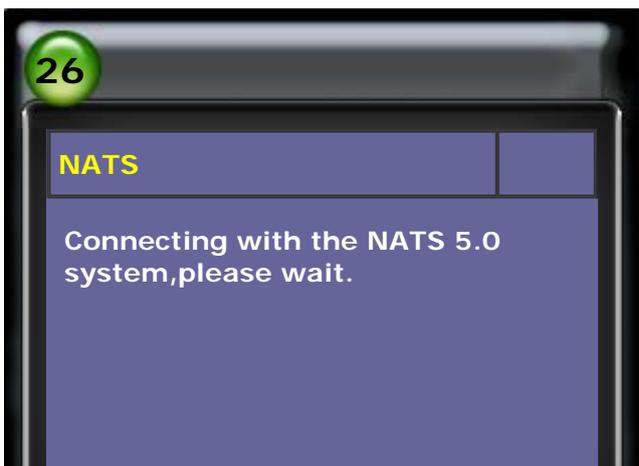
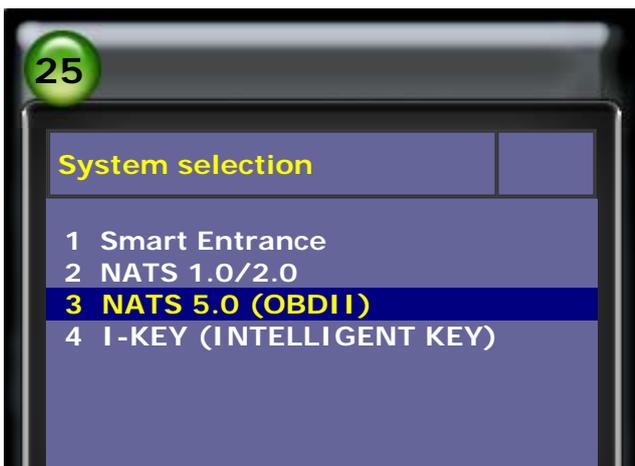


11. Write down the 5-digit BCM PIN and provide it to local NISSAN dealer to get a 4-digit password.

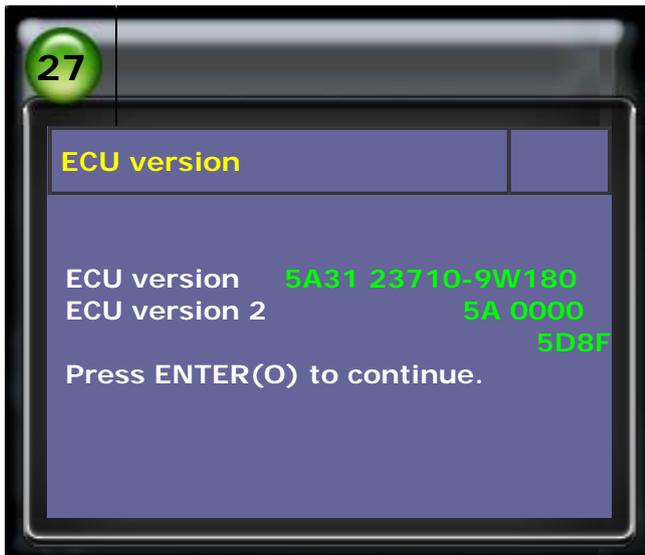
Example: c44bf



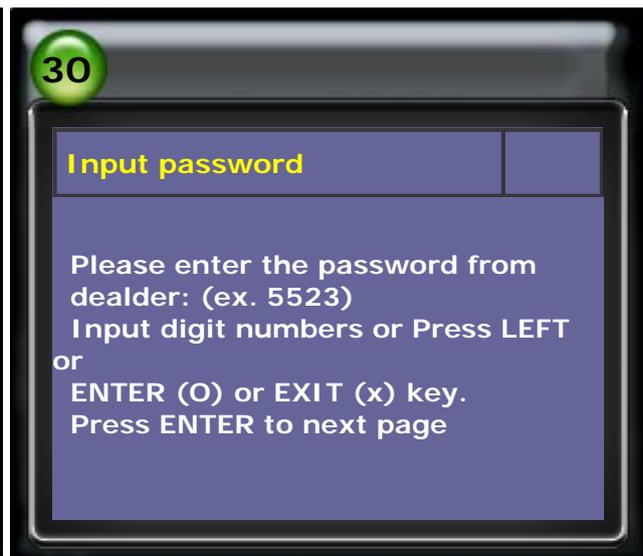
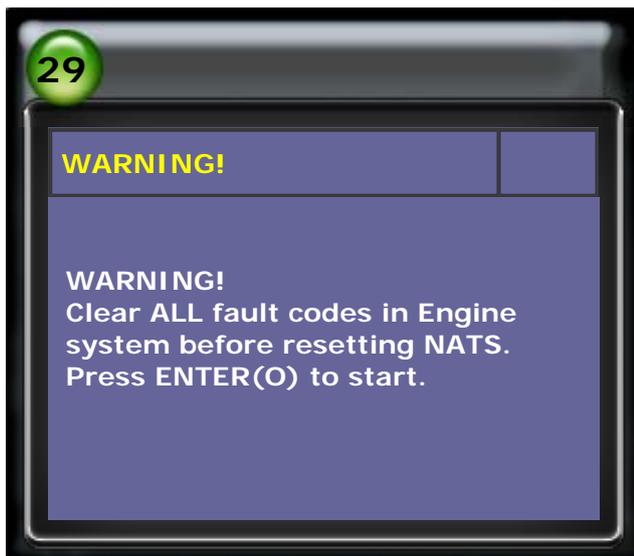
12. Enter **ANTI-THEFT** → select **NATS 5.0 (OBDII)**



13. After connection, please select **NATS** from ENGINE(OBDII)

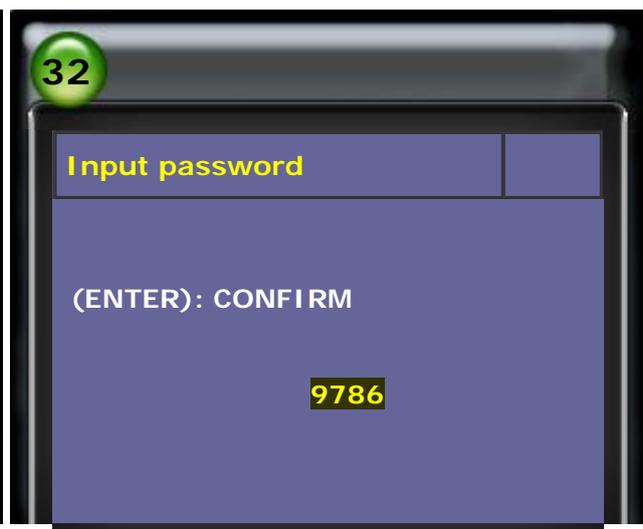
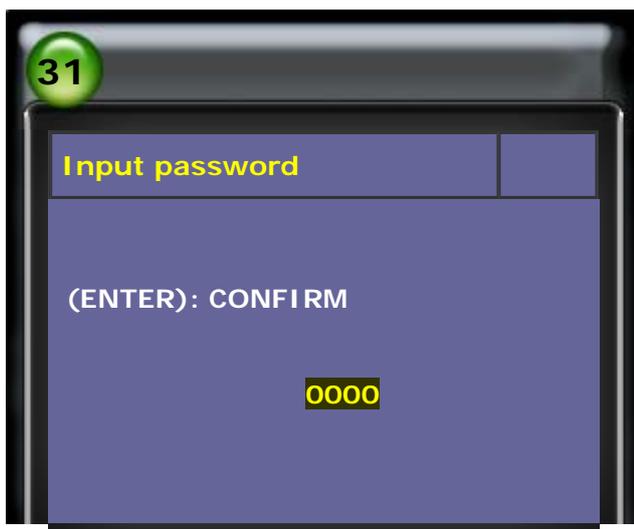


14. Key registration will clear all key entries. It is necessary to register all the keys. Non-registered key can not start the engine.

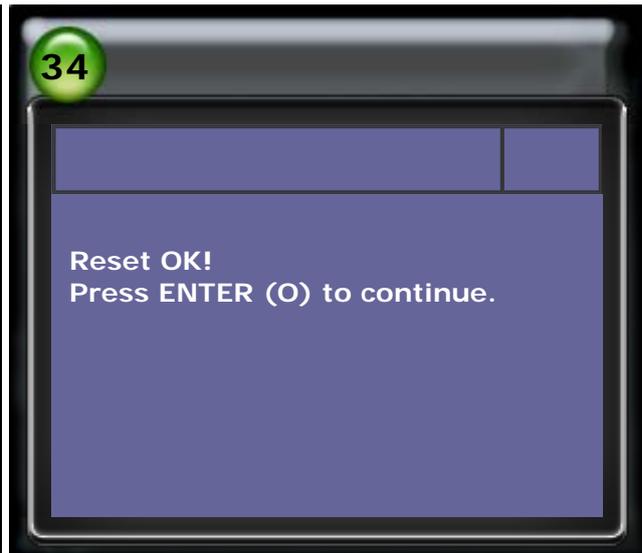
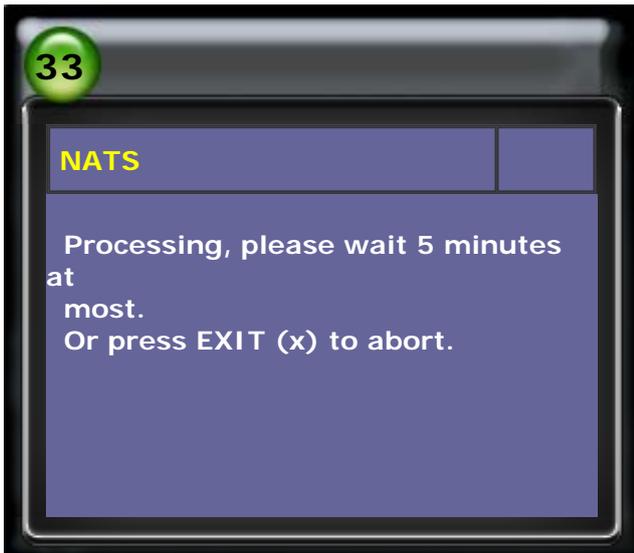


15. Input the password from dealer.

Example: 9786 (for reference only, please accord the password from dealer)



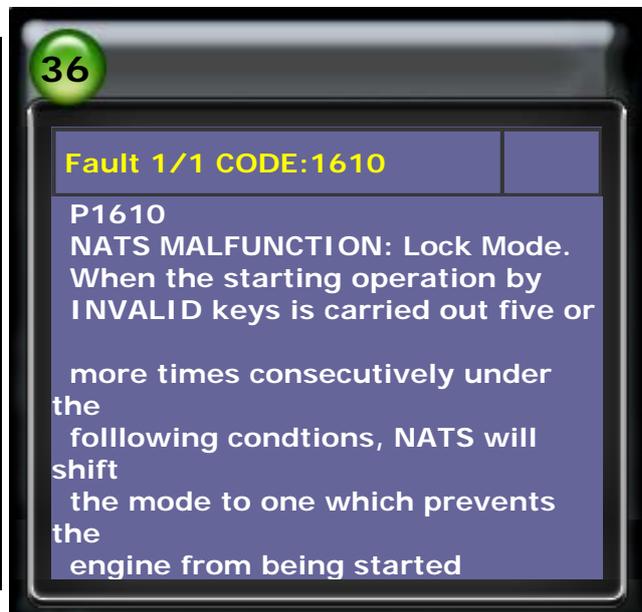
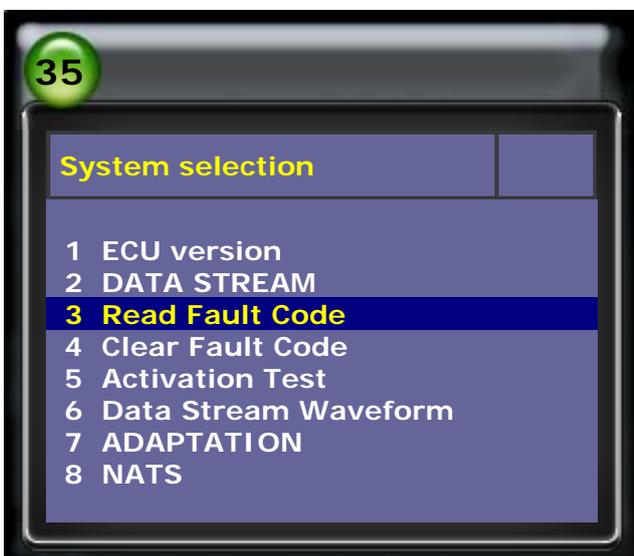
16. After **Reset OK!** , perform Ignition key registration.



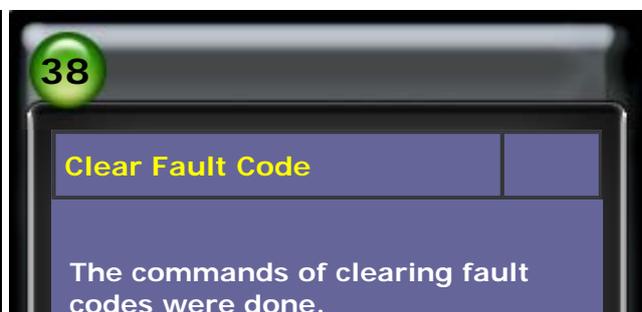
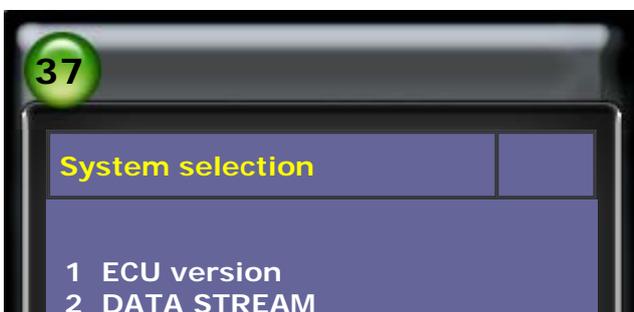
Ignition key registration:

1. Insert the first ignition Key, turn ignition switch to ON and maintain at least 5 seconds. Then turn ignition switch to OFF and pull out the ignition key.
2. After 5 seconds when security indicator flashes, insert the second ignition key and turn ignition switch to ON and maintain at least 5 seconds. Then turn ignition switch to OFF and pull out this ignition key.
3. Waiting 30 seconds, use the 2 keys to start the engine and confirm if both keys work.

17. Select **Read Fault Code**



18. Select **Clear Fault Code**



3 Read Fault Code  
4 **Clear Fault Code**  
5 Activation Test  
6 Data Stream Waveform  
7 ADAPTATION  
8 NATS

Please Read Fault Code again.  
Press ENTER (O) to continue.

[TOP](#)

## NISSAN --- I-KEY Setting

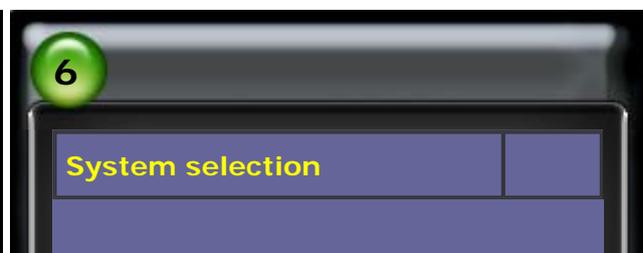
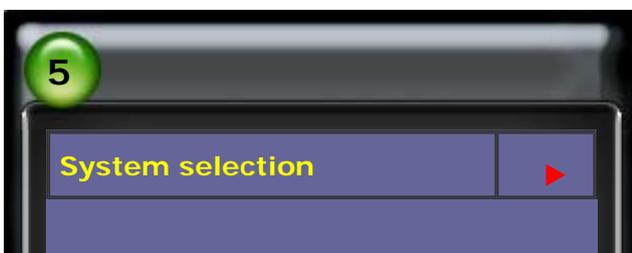
1. Select **Vehicle Diagnostic** → select **ASIAN**

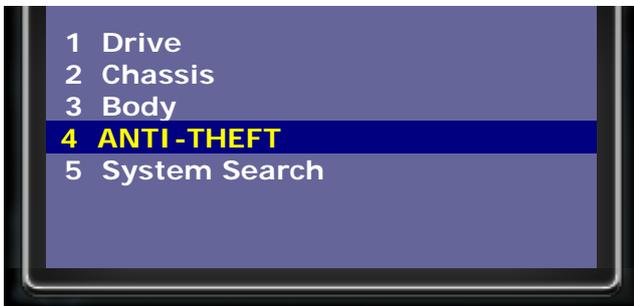


2. Select **JAPAN** → select **NISSAN** software

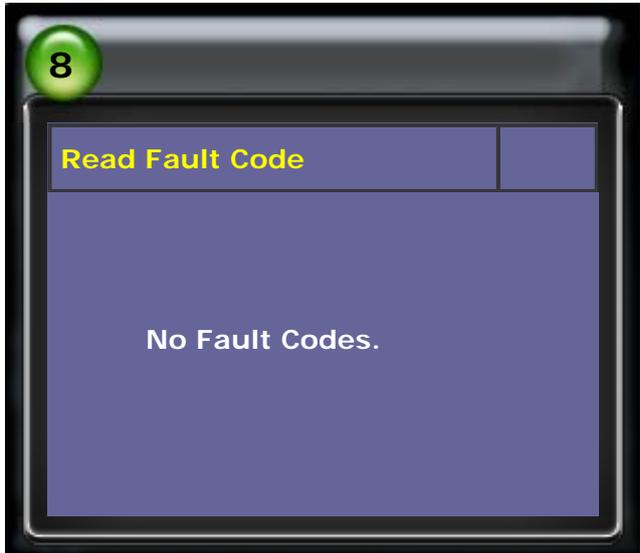


3. Select **ANTI-THEFT** → select **I-KEY (INTELLIGENT KEY)**

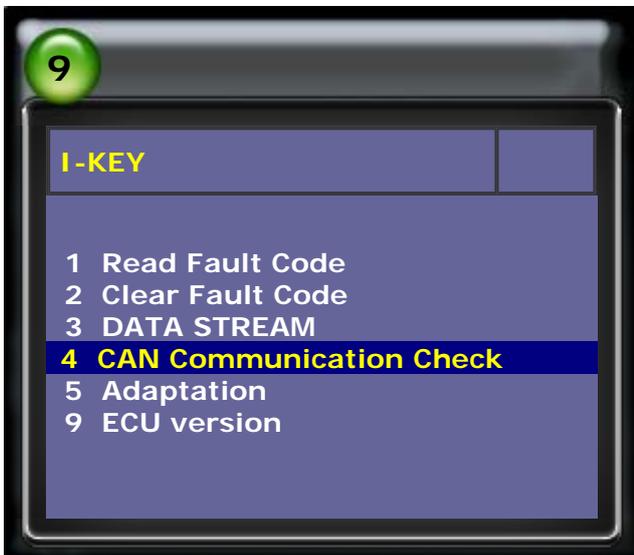




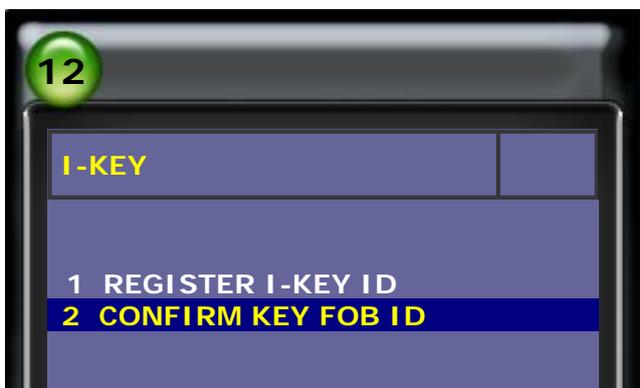
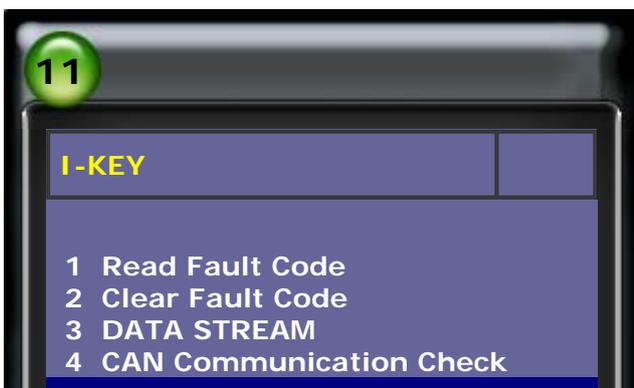
4. Confirm **No Fault Codes** first.



5. Select **CAN Communication Check** to check the communication OK.

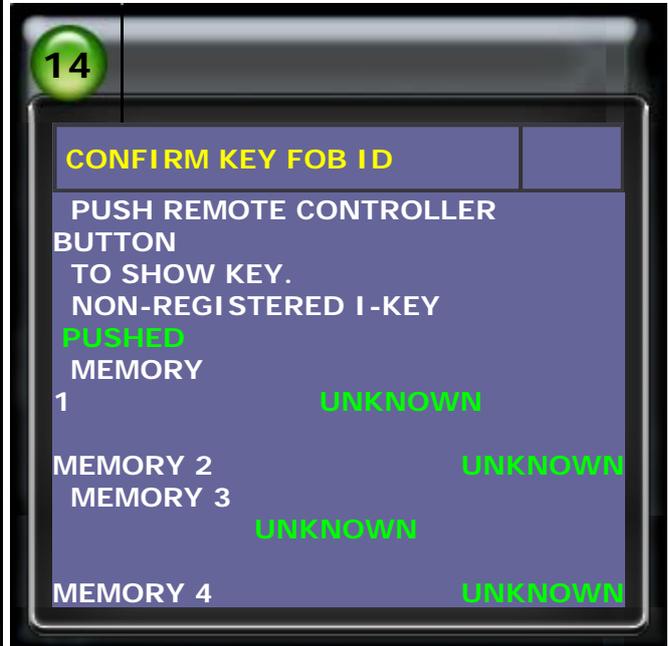


6. Select **Adaptation** → select **CONFIRM KEY FOB ID**



5 Adaptation  
9 ECU version

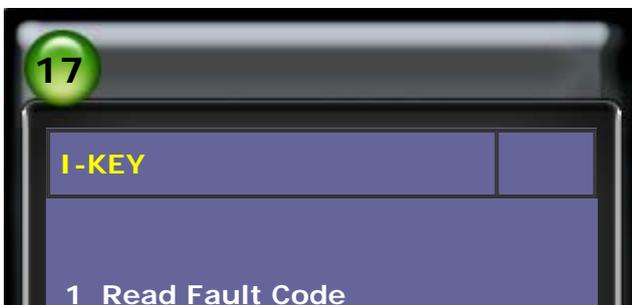
7. If it is a registered I-KEY, the **MEMORY** position will show "PUSHED" as Pic.13  
If it is a non-registered I-KEY, the **NON-REGISTERED I-KEY** position will show "PUSHED" as Pic.14.



8. Before registering I-KEY ID, please re-connect the system again.  
Select **ANTI-THEFT** → select **I-KEY (INTELLIGENT KEY)**



9. Select **Adaptation** → select **REGISTER I-KEY ID** to perform registration.



2 Clear Fault Code  
3 DATA STREAM  
4 CAN Communication Check  
**5 Adaptation**  
9 ECU version

**1 REGISTER I-KEY ID**  
2 CONFIRM KEY FOB ID

10. Use Ignition Key to turn Ignition ON, and put I-KEY near Passenger Side in the vehicle.  
Press ENTER to continue and press any button on I-KEY when registration is in process.

19

**REGISTER IKEY ID**

I-KEY ID REGISTRATION WILL BE PERFORMED.  
INSERT THE REGISTERED MECHANICAL KEY.  
TURN IGNITION ON.  
PRESS (ENTER) KEY TO CONTINUE.

20

**REGISTER IKEY ID**

REGISTRATION IS IN PROGRESSING.  
PRESS I-KEY BUTTON ONCE and then  
RELEASE it, WHEN I-KEY IS IN THE VEHICLE.  
TO CANCEL THIS FUNCTION: PRESS (EXIT) KEY.

11. If the registration completed, the screen will show "REGISTRAION COMPLETED."  
If the registration failed, the screen will show "UNABLE TO REGISTER".

Please check the following reasons:

- 1) Are I-KEY and its battery in the good condition?
- 2) Use the mechanical key that would like to register to turn ignition ON.
- 3) Press I-KEY button when I-KEY is in the vehicle?
- 4) Is the antenna in the vehicle normal?
- 5) In the registration process, is the time of pressing I-KEY button too long or too short?

21

**REGISTER IKEY ID**

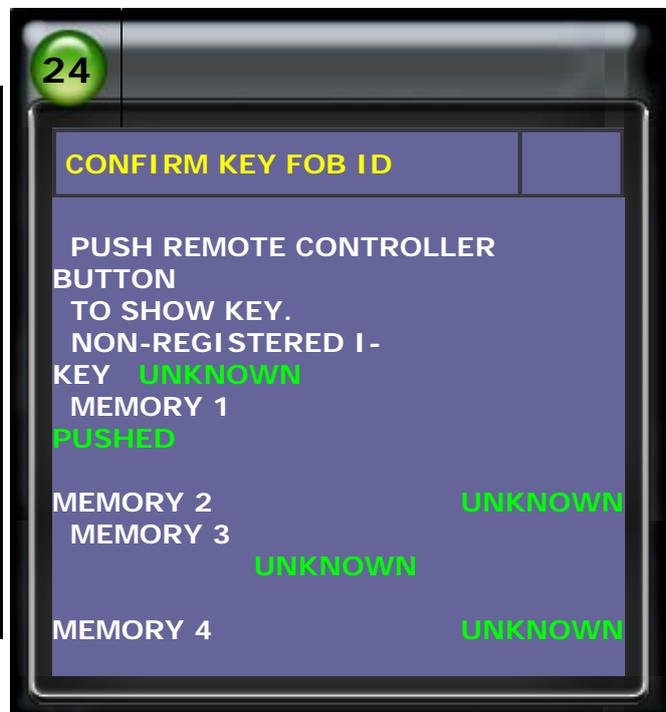
REGISTRATION COMPLETED.

22

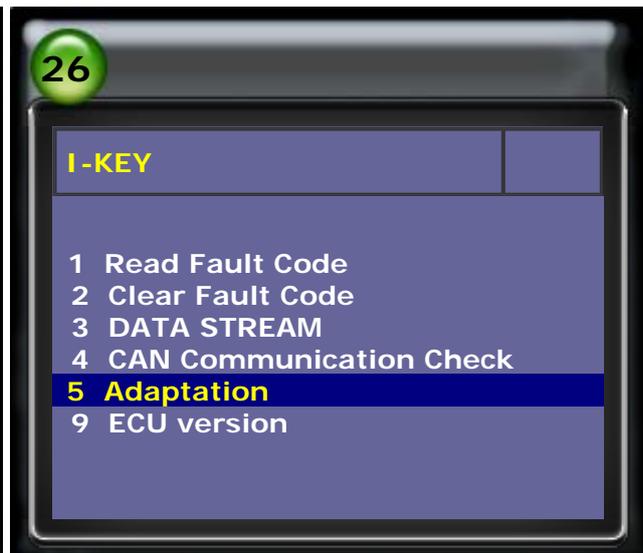
**REGISTER IKEY ID**

UNABLE TO REGISTER.  
CHECK THE FOLLOWING THEN PERFORM AGAIN.  
IS IGNITION 'ON' POSITION BY THE REGISTERED MECHANICAL KEY?  
IS I-KEY'S BUTTON PRESSED ONLY ONCE WHEN I-KEY IS IN THE VEHICLE?  
PRESS (EXIT) TO BACK.

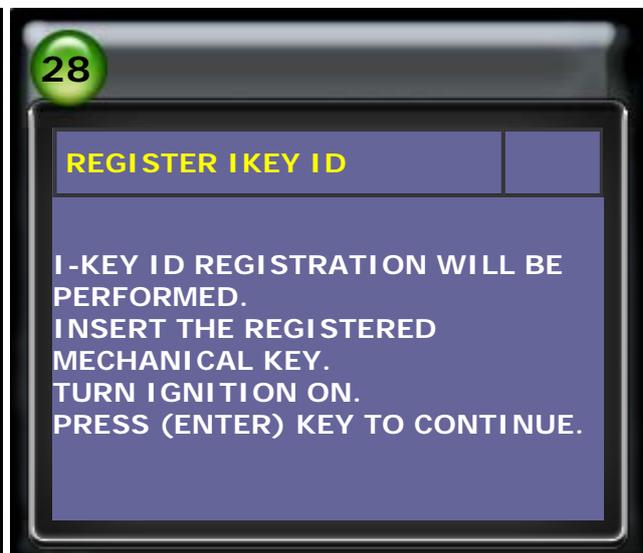
12. After I-KEY registration, enter **CONFIRM KEY FOB ID** to show key.  
Press the button of registered I-KEY, the memory position will show "PUSHED".



13. If the 2nd I-KEY would like to be registered, please re-connect I-KEY system. Select **I-KEY (INTELLIGENT KEY)** → select **Adaptation** to register again.



14. Select **REGISTER I-KEY ID**

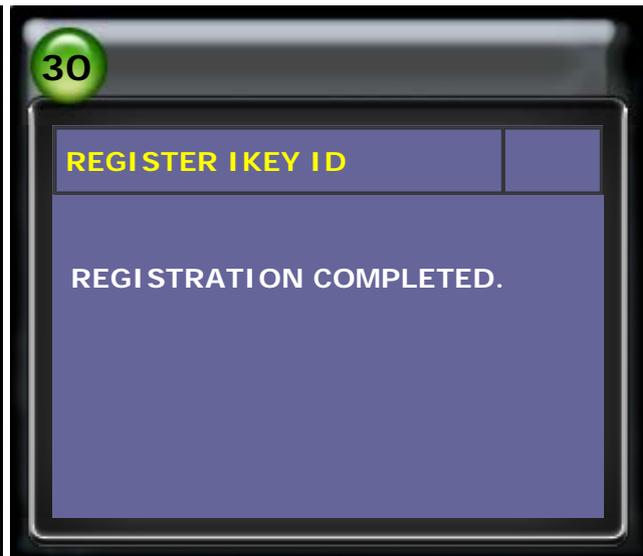
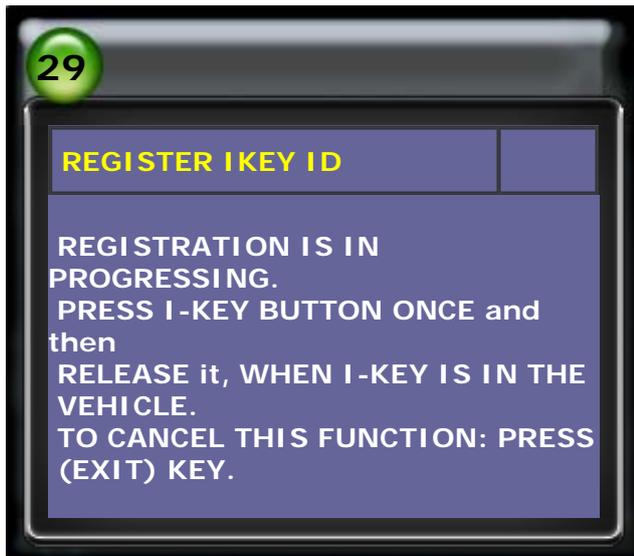


15. Use Ignition Key to turn Ignition ON, and put I-KEY near Passenger Side in the

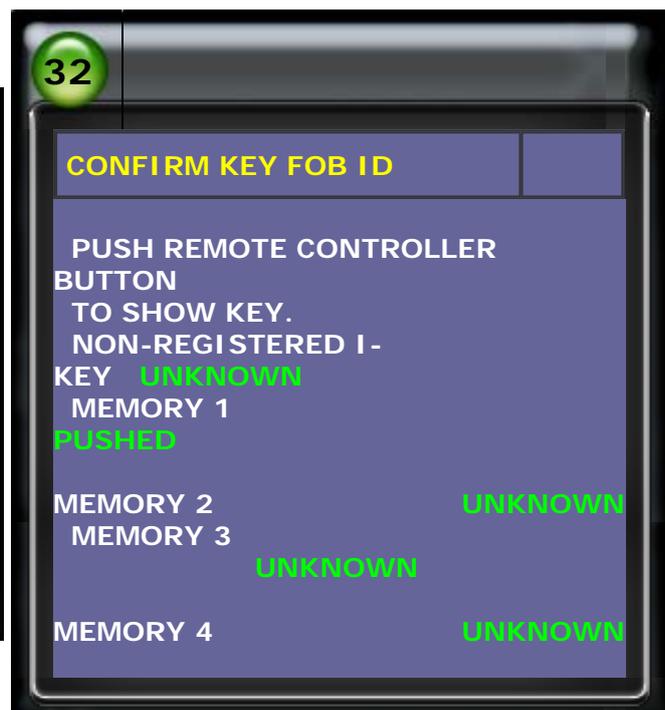
vehicle.

Press ENTER to continue and press any button on I-KEY when registration is in process.

16. If the registration completed, the screen will show "REGISTRAION COMPLETED."



17. After I-KEY registration, enter **CONFIRM KEY FOB ID** to show key.  
Press the button of registered I-KEY, the memory position will show "PUSHED".



[TOP](#)