ADVANCED DIAGNOSTICS

Unlocking Technology

Nissan - Infiniti

(Version 4.3)

World Leaders In Automotive Key Programming Equipment

www.advanced-diagnostics.com

™

CONTENTS

Applications are continually updated as vehicles are constantly added.

To ensure you have the very latest information,

the applications list is available via Info Quest - an online portal containing vehicle technical data for key & remote programming for all manufacturers.

To view the latest vehicle applications please visit Info Quest at

http://iq.advanced-diagnostics.co.uk/

Nissan - Infiniti Software	
ADS112	Nissan - Infiniti
ADS159	Nissan - Infiniti CAN & PROX
ADS169	Nissan - Infiniti 2009
ADS197	Nissan - Infiniti 2013 PROX
ADS198SD	20 DIGIT BYPASS

NISSAN

MICRA

PRIMERA

PRIMERA 2002

SERENA

ALMERA

CUBE

NEW MICRA

SKYLINE

WINGROAD

BLUEBIRD

MICRA 14 PIN

PRIMERA K12

NISSAN

TERRANO 14 PIN

MURANO

MAXIMA

TIIDA

PIXO

XTRAIL (T31)

NAVARA (D40)

XTRAIL (T30)

PATHFINDER (R51)

BLUEBIRD SYLPHY

PATROL (Y51)

JUKE

INTRODUCTION
The Nissan Anti Theft System (NATS) was introduced initially around 1995 with a basic immobiliser, which did not use key transponders. This system was known as NATS 1. Subsequently NATS 2 was introduced which uses the transponder technology.

Further iterations of the NATS system have been introduced, up to NATS 6.5. The earlier systems use a security timed access, similar to Ford systems, which require a period of time before the keys can be programmed.

NATS 5 uses a pin code, as with GM and VAG systems. This system was fitted on vehicles from 2001 MY onwards.

A further development is the introduction of a CAN system that was first introduced on the Micra in 2003. The Micra system comes in two forms either the Intelligent System or
Non-Intelligent system.

NATS IGNITION KEY
This uses standard transponder technology, and have both RED and BLUE chips to identify non crypto and crypto type transponders. The BLUE chip types are fitted on the latest NATS 5 system.

When programming keys, on NATS systems up to NATS 4, all keys stored in memory will be deleted, however on NATS 5 additional keys can be added. Up to 5 keys can be programmed into NATS 5 systems, and 4 keys into NATS 2,3 & 4 systems.

NATS IMMOBILISER UNIT
The NATS immobiliser unit, is normally mounted next to the ignition switch or behind the fascia area. The unit is sometimes also fitted with a dongle unit, and is fitted on right hand drive European vehicles for extra security.

The NATS immobiliser controls signals to the Engine Control Module (ECM) which inhibit starting.

On later systems there is also an input from the Audio system, which if disconnected inhibits the starting of the vehicle.

On CAN systems the immobiliser function is part of the Body Control Module (BCM), which controls signals to the Engine Control Module (ECM) which inhibit starting.

NATS SECURITY INDICATOR
The security LED is normally mounted in the dashboard area and indicates the status of the system.

When a problem is detected, the LED will indicate the fault as listed in the following table when the IGN is ON or in accessory position.

CAN SYSTEMS

<u>NON-INTELLIGENT SYSTEM</u>
This system uses a key with a combined remote control in the key head.

<u>INTELLIGENT SYSTEM</u>
The intelligent system uses a key fob that has a folding key blade that can be used in emergencies.

This system works by proximity detection i.e. when the driver is within a few feet of the vehicle the door automatically unlocks. To start the vehicle the driver depresses the brake pedal and turns the butterfly ignition without putting the key in the ignition. In emergency situations the key blade

CONDITION	WITH DONGLE		WITHOUT DONGLE	
	ENGINE CHECK LIGHT	NATS LED	ENGINE CHECK LIGHT	NATS LED
NATS FAULT (NO DONGLE FAULT)		6FLASHES& ON AFTER IGN IS SWITCHED ON		LED ON
NATS FAULT (DONGLE FAULT)		REMAINS ON FOR 15 MINUTES AFTER IGN IS SWITCHED ON		
NATS FAULT AND ENGINE COMPONENT FAULT	LED ON	6FLASHES & ON AFTER IGN IS SWITCHED ON	LED ON	LED ON
ENGINE FAULT	LED ON		LED ON	
AFTER NATS PROGRAMMING		6 FLASHES		

IMMU	ECM received a signal from IMMU, indicating that IMMU is malfunctioning.
ECM	Control unit is faulty
CHAIN OF ECM-IMMU	Communication between ECM and IMMU
DIFFERENCE OF KEY	IMMU can receive the Key ID signal but ID verification between Key ID and IMMU is incorrect.
CHAIN OF IMMU KEY	IMMU cannot receive key ID & Dongle unit is malfunctioning (IF FITTED)
ID DISCORD, IMM-ECM	The result of ID verification between IMMU and ECM is no good. System programming is required.
ELECTRONIC NOISE	Electronic interference in NATS communication lines during communication.
DON'T ERASE BEFORE CHECKING ENG DIAG	Engine trouble code from Engine diagnostics detected.
LOCK MODE	When the starting operation is carried out 5 or more times consecutively, if an unregistered key is used or ECM or IMMU is faulty then the NATS system shifts to mode 1 to stop engine from starting.
ECM INT CIRC-IMMU	The malfunction of ECM internal circuit of IMMU communication line is detected.

NISSAN—NATS 2,3 & 4 SYSTEMS

PROGRAM KEYS

VEHICLE SELECTION

+ LANCIA
+ MITSUBISHI
+ NISSAN
+ PEUGEOT
+ ROVER
+ SUZUKI

VEHICLE SELECTION

AUS
EURO
USA
PINCODE CONVERTOR

VEHICLE SELECTION

+ INTERSTAR
+ PRIMASTAR
+ MAXIMA
+ MICRA
+ NAVARA
+ PATROL

VEHICLE SELECTION

-> 2000
00 -> 03
+ 03 ->

SWITCH IGNITION ON

PRESS ENTER KEY

NOTE : THE IGNITION MUST ALREADY BE ON AT THIS STAGE, AS THE CONNECTION TO NATS 2 SYSTEMS CAN ONLY BE MADE WHEN IGNITION IS ON.

PROGRAM KEYS

ECU IDENTIFICATION

NATS 2 PETROL

PRESS ENTER KEY

DIAGNOSTIC MENU

ECU IDENTIFICATION
FAULT CODES
SPECIAL FUNCTIONS

PRESS ENTER KEY

DIAGNOSTIC MENU

PROGRAM KEYS

PRESS ENTER KEY

PROGRAMMING KEYS

. . . . . PLEASE WAIT

KEYS PROGRAMMED
PROCEDURE COMPLETE
CYCLE IN ADDITIONAL
KEYS NOW IF REQUIRED
DISCONNECT TESTER
FROM VEHICLE

PRESS ENTER KEY

NOTE : FOR ALL ADDITIONAL KEYS CYCLE IN EACH KEY NOW.

WHEN YOU TRY TO START THE VEHICLE THE SYSTEM THEN CLOSES AND NO MORE KEYS CAN BE ADDED.

NISSAN—NATS 5 SYSTEMS

PROGRAM KEYS

VEHICLE SELECTION

+ LANCIA
+ MITSUBISHI
+ NISSAN
+ PEUGEOT
+ ROVER
+ SUZUKI

VEHICLE SELECTION

AUS
EURO
USA

VEHICLE SELECTION

NISSAN SYSTEMS
ALMERA
ALMERA TINO
CABSTAR
INTERSTAR
PRIMASTAR

VEHICLE SELECTION

PETROL
DIESEL

VEHICLE SELECTION

> 2000
2000 >

SWITCH IGNITION ON

PRESS ENTER KEY

PROGRAM KEYS

ECU IDENTIFICATION

NATS 5

PRESS ENTER KEY

DIAGNOSTIC MENU

ECU IDENTIFICATION
FAULT CODES
SPECIAL FUNCTIONS

PRESS ENTER KEY

DIAGNOSTIC MENU

PROGRAM KEYS

PRESS ENTER KEY

SECUIRTY CODE

_ _ _ _

1	2	3	4	5
6	7	8	9	0

SECUIRTY CODE

1 2 3 4

✘ ✓

KEY PROGRAMMED
CYCLE IN ADDITIONAL
KEYS

PRESS ENTER KEY

PROGRAM KEYS

NOTE : AT THIS POINT CYCLE IN ALL KEYS THAT ARE REQUIRED TO BE PROGRAMMED.

DO NOT START THE VEHICLE AS THIS CLOSES THE PROGRAMMING CYCLE.

NISSAN—NATS 5 SIEMENS PIN CODE

PINCODE CONVERTOR

VEHICLE SELECTION

+ LANCIA
+ MITSUBISHI
+ NISSAN
+ PEUGEOT
+ ROVER
+ SUZUKI

VEHICLE SELECTION

EURO
AUS
USA
PINCODE CONVERTOR

VEHICLE SELECTION

SIEMENS
SUPERCODE
SUPERCODE LABELS

PINCODE CONVERTOR

PRESS ENTER KEY

NISSAN PIN CODE

PLEASE REFER TO THE MANUAL
TO IDENTIY THE DATE CODE
AND THE PIN CODE FROM THE
IMMOBILISER LABEL

PRESS ENTER KEY

NOTE : PLEASE SEE LABEL GUIDE FOR DATE CODES AND PIN CODES ON THE FOLLOWING PAGE.

PINCODE CONVERTOR

PLEASE ENTER DATE CODE

_ _ _ _

1	2	3	4	5
6	7	8	9	0

PLEASE ENTER DATE CODE

1 2 3 4

✘ ✓

PLEASE ENTER PIN CODE

_ _ _ _

1	2	3	4	5
6	7	8	9	0

PLEASE ENTER PIN CODE

1 2 3 4

✘ ✓

NISSAN PIN CODE

MADE IN MEXICO : 5E83
MADE IN GERMANY : 4343
MADE IN EUROPE : 4343

NOTE : ON SOME MODELS YOU WILL GET LETTERS IN THE PIN CODE, IGNORE THESE AND USE THE PIN CODE THAT HAVE NUMBERS ONLY.

IF THERE ARE MORE THAN 1 PIN CODE THEN TRY EACH ONE IN TURN TO FIND CORRECT PIN.

NISSAN—NATS 5 SIEMENS PIN CODE

RED NUMBER = DATE CODE

NOTE : IGNORE THE LAST 2 DIGITS, JUST INSERT THE FIRST 4 DIGITS INTO THE AD KEY PROGRAMMER.

GREEN NUMBER = ENCRYPTED PIN CODE

RED NUMBER = DATE CODE

GREN NUMBER = ENCRYPTED PIN CODE

NISSAN–NATS 5 SUPERCODE(ADC176)

PINCODE CONVERTOR

VEHICLE SELECTION
+ LANCIA
+ MITSUBISHI
+ NISSAN
+ PEUGEOT
+ ROVER
+ SUZUKI

VEHICLE SELECTION
EURO
AUS
USA
PINCODE CONVERTOR

VEHICLE SELECTION
SIEMENS
SUPERCODE
SUPERCODE LABELS

PINCODE CONVERTOR
PRESS ENTER KEY

NISSAN PIN CODE
PLEASE ENSURE THAT
THE NISSAN SUPERCODE
DONGLE IS FITTED
AND THE TESTER IS
POWERED FROM THE VEHICLE
PRESS ENTER KEY

NOTE : THE NISSAN SUPERCODE DONGLE ONLY WORKS WHEN YOU ARE CONNECTED TO THE VEHICLE POWER.

IT WILL NOT WORK CONNECTED THROUGH THE POWER CONNECTOR !

PINCODE CONVERTOR

NISSAN PIN CODE
INITIALISING DONGLE
PRESS ENTER KEY

NISSAN SUPERCODE
_ _ _ _ _

1	2	3	4	5
6	7	8	9	0

PLEASE ENTER DATE CODE

A 1 2 3 4

✗ ✓

NISSAN PIN CODE
PINCODE: 1234
PLEASE TURN OFF TESTER

2004 to 2009 Vehicles

CONVERT 2004 - 2009 NISSAN / INFINITI BCM LABEL NUMBERS TO 4 DIGIT PIN CODES.

NOTE:ADS198 ALSO CONVERTS 2009> VEHICLES

FOR USE WITH MVPPro & TCODEPro.

SMARTCARD ENABLED TESTERS ONLY.

NOTE :
ADC176 HAS NOW BEEN SUPERSEDED BY ADC198

NISSAN—2009 > Pin Codes

In 2009 Nissan changed the pin code system on ALL models across the world.

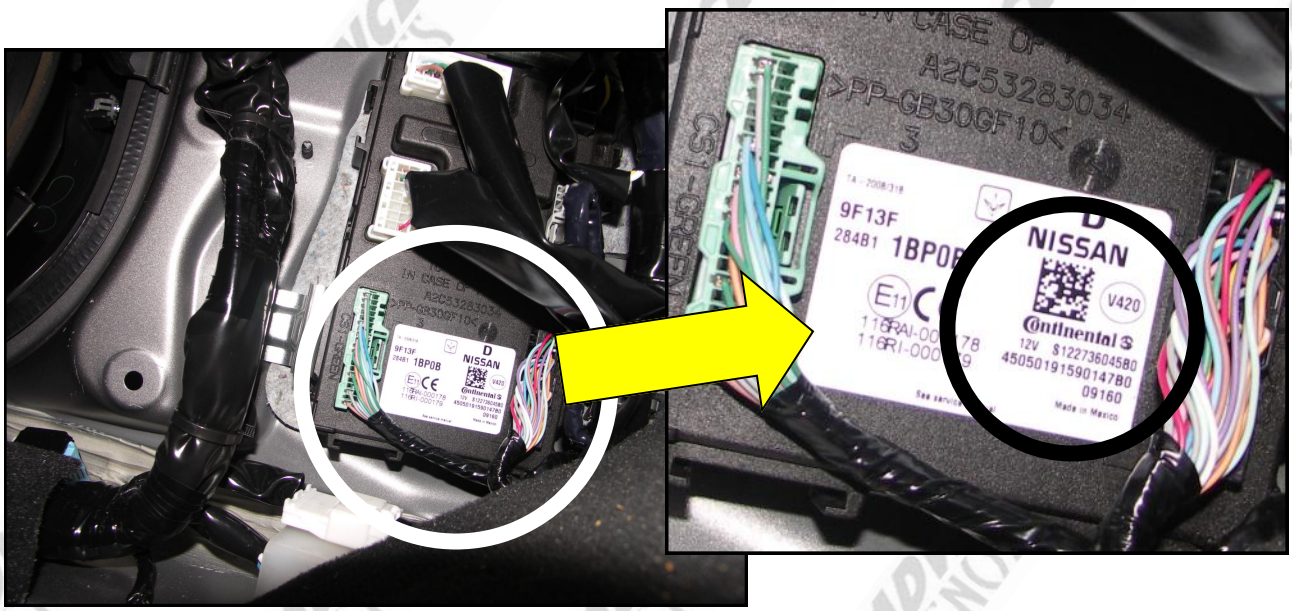
The Nissan SUPERCODE (ADC176) or the SIEMENS converter (ADS170|) will not work on this new system.

The way to identify if the vehicles that use this new system is to check the label on the BCM, if it has the manufacturer name CONTINENTAL then this uses the new pin code system.

These pin codes can be obtained as follows :-

1. Pin code can be obtained by using DONGLE ADC198
2. Advanced Diagnostics Pin code service, using PAYPAL as payment (24 hours service)
3. Direct from a Nissan dealer.
4. NASTF system in the USA.

A couple of examples of a BCM are shown....



NISSAN/ INFINITI BCM TO PIN CODE CONVERSION (ADC198)

CONVERT 2004 - 2012 NISSAN / INFINITI BCM LABEL NUMBERS TO 4 DIGIT PIN CODES. FOR USE WITH MVPPro & TCODEPro.
SMARTCARD ENABLED TESTERS ONLY.

PINCODE CONVERTOR

VEHICLE SELECTION

+ LANCIA
+ MITSUBISHI
+ NISSAN
+ PEUGEOT
+ ROVER
+ SUZUKI

VEHICLE SELECTION

EURO
AUS
USA
PINCODE CONVERTOR

VEHICLE SELECTION

SIEMENS
ADC176 > 2009
ADC176 >2009 LBLS
ADC198 - 2009 >

PINCODE CONVERTOR

PRESS ENTER KEY

NISSAN PIN CODE

PLEASE ENSURE THAT
THE NISSAN ADC198 DONGLE IS
FITTED AND THE TESTER IS
POWERED FROM THE VEHICLE

PRESS ENTER KEY

NISSAN PIN CODE

INITIALISING DONGLE
PLEASE WAIT

PRESS ENTER KEY

NISSAN BCM CODE

_ _ _ _ _

1	2	3	4	5
6	7	8	9	0

NISSAN BCM CODE

BCM 123AF

✘ ✓

NISSAN ADC198

BCM: 123AF
PINCODE > 2009 :5940
PINCODE 2009 > 0792

PLEASE TURN OFF TESTER

NEXT STEP: WRITE DOWN PINCODES THEN TURN OFF THE PRO AND REMOVE THE ADC198 DONGLE

TROUBLESHOOTING

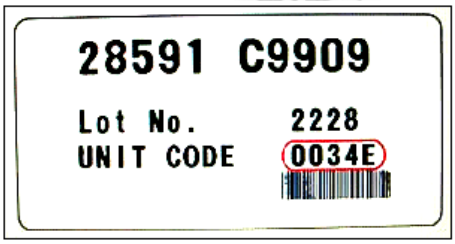
MAKE SURE THE PRO IS BEING POWERED BY A VEHICLE USING THE STANDARD CABLE.

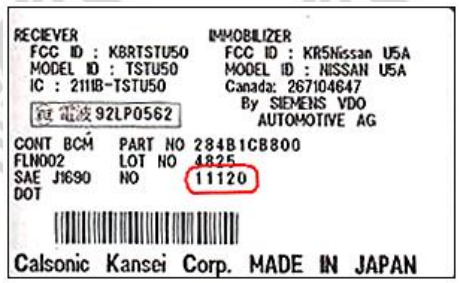
ADC198 WILL NOT WORK OFF THE WALL ADAPTOR OR THE CIGARETTE ADAPTOR

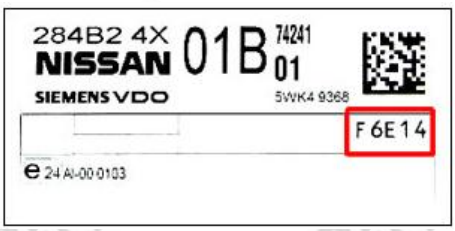
THIS PROCEDURE DOES NOT USE A TOKEN ON THE MVPPRO

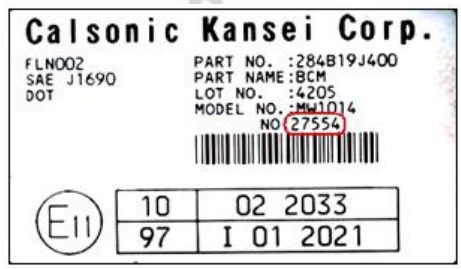
NISSAN—NATS 5 BCM LABELS (ADC176 & ADS198)

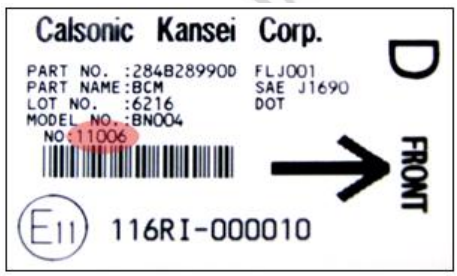
NOTE : USE BCM READ FUNCTION ON PRO SOFTWARE TO READ BCM CODE ON THIS TYPE.



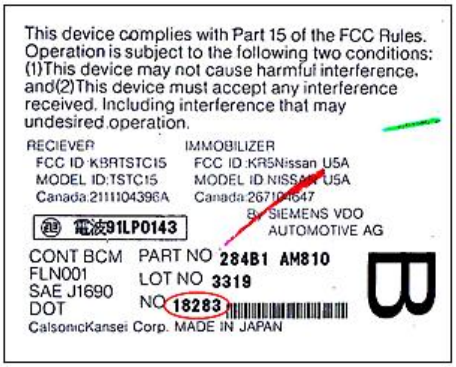








NISSAN—NATS 5 BCM LABELS (ADC176 & ADS198)



NISSAN—NATS 6.5 NOTE/K12 SYSTEM

PROGRAM KEYS

VEHICLE SELECTION

+ LANCIA
+ MITSUBISHI
+ NISSAN
+ PEUGEOT
+ ROVER
+ SUZUKI

VEHICLE SELECTION

AUS
EURO
USA

VEHICLE SELECTION

NISSAN SYSTEMS
MAXIMA
MICRA
NAVARRA
NOTE
PRIMASTAR

VEHICLE SELECTION

NORMAL
INTELLIGENT

NOTE : IF NO COMMUNICATION IS RECEIVED, SWITCH ON THE HAZARD WARNING LIGHTS WHILE PROGRAMMING.

IGNITION OFF

PRESS ENTER KEY

PROGRAM KEYS

ECU IDENTIFICATION

ECU NO. AX602

PRESS ENTER KEY

DIAGNOSTIC MENU

ECU IDENTIFICATION
SPECIAL FUNCTIONS

PRESS ENTER KEY

DIAGNOSTIC MENU

PROGRAM KEYS
KEYS PROGRAMMED
PROGRAM REMOTE
ERASE REMOTES
CHECK REMOTES

PRESS ENTER KEY

SWITCH IGNITION OFF
REMOVE KEY

PRESS ENTER KEY

PINCODE SOURCE

1.DEALER CODE
2. ADVANCED DIAGNOSTICS

1	2	3	4	5
6	7	8	9	0

NOTE : THE DEALER CODE IS WHAT HAS BEEN OBTAINED FROM THE DEALER.

THE AD CODE IS FOR FUTURE PIN CODE READING SOFTWARE.

PROGRAM KEYS

SECURITY CODE

_ _ _ _ _ _ _ _ _ _ _

1	2	3	4	5
6	7	8	9	0

SECUIRTY CODE

1 2 3 A 5 6 B 8 9 0 1 F

✗ ✓

PROGRAM KEYS

SWITCH IGNITION ON

PRESS ENTER KEY

NOTE : ENSURE YOU START WITH AN UNPROGRAMMED KEY IN THE IGNITION, OTHERWISE AN ERROR WILL OCCUR.

PROGRAM KEYS

IS THE SECURITY LED ON OR FLASHING

✗ ✓

PLEASE WAIT

. . . . . .

NISSAN—NATS 6.5 NOTE/K12 SYSTEM

PROGRAM KEYS

PROGRAM KEYS

SWITCH IGNITION OFF

PRESS ENTER KEY

PLEASE WAIT

. . . . . .

PROGRAM KEYS

DO YOU WANT TO
PROGRAM MORE KEYS

✘ ✓

PROGRAM KEYS

REMOVE KEY

INSERT NEXT KEY

PRESS ENTER KEY

PROGRAM KEYS

SWITCH IGNITION ON

PRESS ENTER KEY

PROGRAM KEYS

IS THE SECURITY LED
ON OR FLASHING

✘ ✓

PROGRAM KEYS

PROGRAM KEYS

SWITCH IGNITION OFF

PRESS ENTER KEY

PLEASE WAIT

. . . . . .

PROGRAM KEYS

REMOVE KEY

PRESS ENTER KEY

PROGRAM KEYS

INSERT KEY

AND CYCLE IGN.

PRESS ENTER KEY

PROCEDURE COMPLETE

PRESS ENTER KEY

NOTE : AFTER PROGRAMMING CHECK EACH KEY.

CHECK THE KEY LIGHT CHANGES FROM RED TO GREEN AND FLASHES FOR 20 SECONDS AND THEN GOES OUT FOR EACH KEY.

PIN READ for NISSAN NOTE/K12 NORMAL

PIN READ

VEHICLE SELECTION

+ MERCEDES
+ MITSUBISHI
+ NISSAN
+ PERODUA
+ PEUGEOT
+ PLYMOUTH

VEHICLE SELECTION

+ ASIA
+ AUS
+ EURO
+ USA
+ PINCODE CONVERTOR

VEHICLE SELECTION

TERRANO I
+ TERRANO II
+ TIIDA
+ VANETTE
+ X—TRAIL
+ READ PINCODE

VEHICLE SELECTION

INTERSTAR
PRIMASTAR
+ MICRA
NOTE

HAZARDS ON / IGNITION OFF

PRESS ENTER KEY

ECU IDENTIFICATION

ECU No. : 52All
KEY # 1: 0C 61 83 24
KEY # 2: F1 3D 83 24
KEY # 3: EMPTY
KEY # 4: EMPTY

PRESS ENTER KEY

PIN READ

DIAGNOSTIC MENU

ECU IDENTIFICATION
> SPECIAL FUNCTIONS

PRESS ENTER KEY

DIAGNOSTIC MENU

> READ PINCODE

PRESS ENTER KEY

PINCODE

55 B7 AB F3 9E 7C

PRESS ENTER KEY

NISSAN—NATS PROXIMITY (STEP 1)

READ BCM

VEHICLE SELECTION
+ LANCIA
+ MITSUBISHI
+ NISSAN
+ PEUGEOT
+ ROVER
+ SUZUKI

VEHICLE SELECTION
AUS
EURO
USA

VEHICLE SELECTION
+ PRIMERA
+ PRIMASTAR
+ PULSAR
+ QASHQAI
+ SERENA
+ SKYLINE

VEHICLE SELECTION
+ J10

VEHICLE SELECTION
+ PETROL
+ DIESEL

VEHICLE SELECTION
+ MECHANICAL — KEY
+ I— KEY

READ BCM

VEHICLE SELECTION
NATS 5 < CAN > PROX
CONVERT BCM -> PIN

HAZARDS ON / IGNITION OFF

PRESS ENTER KEY

ECU IDENTIFICATION
NATS I— KEY

PRESS ENTER KEY

DIAGNOSTIC MENU
ECU IDENTIFICATION
>SPECIAL FUNCTIONS

PRESS ENTER KEY

DIAGNOSTIC MENU
> # 1. BCM READ
2. STEERING RELEASE
3. REGISTER E KEY
4. ERASE RKE FUNCTIONS
5. PROGRAM RKE FUNCTIONS

BCM SERIAL NUMBER
0A461

PRESS ENTER KEY

READ BCM

NOTE : USE THE NISSAN SUPERCODE ADC176 TO CONVERT THIS NUMBER TO THE 4 DIGIT PINCODE

SEE NEXT PAGE FOR PROCEDURE

NISSAN—NATS PROXIMITY (STEP 2)

PINCODE CONVERTOR

VEHICLE SELECTION

+ LANCIA
+ MITSUBISHI
+ NISSAN
+ PEUGEOT
+ ROVER
+ SUZUKI

VEHICLE SELECTION

EURO
AUS
USA
PINCODE CONVERTOR

VEHICLE SELECTION

SIEMENS
SUPERCODE
SUPERCODE LABELS

PINCODE CONVERTOR

PRESS ENTER KEY

NISSAN PIN CODE

PLEASE ENSURE THAT
THE NISSAN SUPERCODE
DONGLE IS FITTED
AND THE TESTER IS
POWERED FROM THE VEHICLE

PRESS ENTER KEY

NOTE : THE NISSAN SUPERCODE DONGLE ONLY WORKS WHEN YOU ARE CONNECTED TO THE VEHICLE POWER.

IT WILL NOT WORK CONNECTED THROUGH THE POWER CONNECTOR !

PINCODE CONVERTOR

NISSAN PIN CODE

INITIALISING DONGLE

PRESS ENTER KEY

NISSAN SUPERCODE

_ _ _ _ _

1	2	3	4	5
6	7	8	9	0

PLEASE ENTER DATE CODE

A 1 2 3 4

✘ ✓

NISSAN PIN CODE

PINCODE: 1234

PLEASE TURN OFF TESTER

NISSAN—NATS PROXIMITY (STEP 3)

STEERING RELEASE

VEHICLE SELECTION

+ LANCIA
+ MITSUBISHI
+ NISSAN
+ PEUGEOT
+ ROVER
+ SUZUKI

VEHICLE SELECTION

EURO
AUS
USA
PINCODE CONVERTOR

VEHICLE SELECTION

+ J10

VEHICLE SELECTION

+ PETROL
+ DIESEL

VEHICLE SELECTION

+ MECHANICAL — KEY
+ I— KEY

VEHICLE SELECTION

NATS 5 < CAN > PROX
CONVERT BCM -> PIN

STEERING RELEASE

HAZARDS ON / IGNITION OFF

PRESS ENTER KEY

ECU IDENTIFICATION

NATS I— KEY

PRESS ENTER KEY

DIAGNOSTIC MENU

ECU IDENTIFICATION
>SPECIAL FUNCTIONS

PRESS ENTER KEY

DIAGNOSTIC MENU

> # 1. BCM READ
 # 2. STEERING RELEASE
3. REGISTER E KEY
4. ERASE RKE FUNCTIONS
5. PROGRAM RKE FUNCTIONS

SECURITY CODE

_ _ _ _

1	2	3	4	5
6	7	8	9	0

SECUIRTY CODE

1 2 3 4

✘ ✓

STEERING RELEASE

STEER LOCK RELEASE

SUCCESS

PRESS ENTER KEY

NISSAN—NATS PROXIMITY (STEP 4)

REGISTER INTELLI KEY

DIAGNOSTIC MENU
1. BCM READ
2. STEERING RELEASE
> # 3. REGISTER E KEY
4. ERASE RKE FUNCTIONS
5. PROGRAM RKE FUNCTIONS

NOTE KEY INSERTED
IS KEY # 1
MAX. 4 KEYS ALLOWED
SWITCH IGNITION ON
PRESS ENTER KEY

SECURITY CODE
1234
IS THIS CORRECT?
YES=ENTER **NO=BACK**

PROGRAM KEY
SWITCH IGNITION OFF
REMOVE KEY
PRESS ENTER KEY

PROGRAM KEYS
DO YOU WANT TO
PROGRAM MORE KEYS?
YES=ENTER **NO=BACK**

PROGRAM KEY
INSERT KEY: # 1
SWITCH IGNITION ON
SECURITY INDICATOR
SHOULD FLASH 5 TIMES
PRESS ENTER KEY

REGISTER INTELLI KEY

PROGRAM KEY
SWITCH IGNITION OFF
REMOVE KEY
PRESS ENTER KEY

PROGRAM KEY
INSERT KEY: # 1
SWITCH IGNITION ON
SECURITY INDICATOR
SHOULD FLASH 5 TIMES
PRESS ENTER KEY

PROGRAM KEY
CHECK ENGINE STARTS
THEN PROCEED TO
NEXT STEP
PRESS ENTER KEY

DIAGNOSTIC MENU
1. BCM READ
2. STEERING RELEASE
3. REGISTER E KEY
4. ERASE RKE FUNCTIONS
> # 5. PROGRAM RKE FUNCTIONS

PROGRAM RKE
CHECK ENGINE STARTS
THEN PROCEED TO
NEXT STEP
PRESS ENTER KEY

NISSAN / INFINITI 2013 (ADS197)

FIRST STEP - GET 20 DIGIT OUTCODE FROM CAR

VEHICLE SELECTION
+ LANCIA
+ MITSUBISHI
+ NISSAN
+ PEUGEOT
+ ROVER
+ SUZUKI

VEHICLE SELECTION
AUS
EURO
USA
PIN CODE CONVERTOR

VEHICLE SELECTION
TYPE 9
TYPE 10
TYPE 11
TYPE 12
TYPE 13
NISSAN 2009

HAZZARDS ON / IGNITION OFF

PRESS ENTER KEY

ECU IDENTIFICATION

PART Number 3TAO Cad

PRESS ENTER KEY

DIAGNOSTIC MENU
ECU IDENTIFICATION
>SPECIAL FUNCTIONS

PRESS ENTER KEY

WARNING

ALL KEYS WILL BE ERASED
DO YOU WANT TO CONTINUE

✘ ✓

IMMOBILIZER RESET REQUEST

A064– C456-A235-4555-FFC3

20 DIGIT OUTCODE

USE TO OBTAIN IN-CODE FROM

NASTF OR DEALER

PRESS ENTER KEY

IMPORTANT:
ONCE YOU HAVE OBTAINED THE OUT-CODE FROM THE CAR DO NOT DISCONNECT THE TESTER.

IF YOU HAVE TO START OVER THE OUTCODE WILL CHANGE TO A NEW OUTCODE. THEREFORE IT IS ABSOLUTELY NECESSARY TO STAY CONNECTED UNTIL THE OUTCODE CAN BE OBTAINED.

SECOND STEP
GET INCODE FROM NISSAN

THIRD STEP
STEERING LOCK RELEASE

ENTER INCODE

A066B455C222EEC4

1	2	3	4	5
6	7	8	9	0

ENTER INCODE

A066B455C222EEC4

✘ ✓

FOURTH STEP - PROGRAM PROX

PROGRAM PROX

WARNING: DO NOT PRESS THE BRAKE PEDAL.

PRESS AND HOLD THE START / STOP BUTTON UNTIL THE IGNITION SWITCHES ON

PRESS ENTER KEY

RELEASE THE BUTTON ONCE THE DASHBOARD LIGHTS UP AND THE LIGHT ON THE BUTTON ILLUMINATES. THIS SHOULD TAKE A FEW SECONDS.

ONCE IT TURNS ON - DO NOT SWITCH IT OFF UNTIL THE PRO INSTRUCTS YOU TO.

PROGRAM PROX

PLEASE WAIT

****

PROGRAM PROX

PRESS START / STOP BUTTON TO SWITCH IGNITION OFF

PRESS ENTER KEY

PROGRAM PROX

PRESS START / STOP BUTTON WITH THE LOGO END OF THE 1ST PROX

1ST PROX

THE DASH SHOULD LIGHT UP & THE SECURITY LIGHT SHOULD **BLINK 5 TIMES**

PRESS ENTER KEY

PROGRAM PROX

PRESS START / STOP BUTTON TO SWITCH IGNITION OFF

PRESS ENTER KEY

NISSAN / INFINITI 2013 (ADS197)

PROGRAM PROX CONTINUED

PROGRAM PROX

PLEASE WAIT

****

DO YOU WANT TO PROGRAM MORE KEYS?

✗ ✓

PRESS THE X ON THE SCREEN

UP TO **4 TOTAL** KEYS CAN BE PROGRAMMED. FOLLOW THE PROMPTS ON THE PRO.

PROGRAM PROX

PRESS THE BRAKE PEDAL

& HOLD THE PROX UP TO THE START / STOP BUTTON .

PRESS THE START / STOP BUTTON ONCE & THE CAR SHOULD START

PRESS ENTER KEY

PROGRAM PROX

PRESS THE START / STOP BUTTON ONCE TO SWITCH THE IGNITION OFF

PRCEDURE COMPLETE

PRESS ENTER KEY

THE DASHBOARD SHOULD NOW DISPLAY A MESSAGE THAT READS:

KEY REGISTRATION COMPLETE

Notes & Tips

- **Always program the PROX part of the key first.**
- **When entering OUTCODE onto the NASTF site, do so using all CAPS.**
- **Ensure to use the PROX key to push in the Start / Stop button.**
- **When pressing the Prox key into the Start / Stop button - make sure that the security light blinks 5 times for each key as it is accepted. If this doesn't happen there is a problem.**
- **OUTCODE ERROR MESSAGE ON TESTER : Please disconnect TESTER AND THE BATTERY for 5min and then retry procedure.**

Obtaining Incodes / Pincodes

There are several ways to obtain the necessary INCODE for programming on this system.

1. If you have a valid N.A.S.T.F Locksmith ID.

Go to http://www.nissan-techinfo.com
Once you are registered (which by the way, takes some time)

Nissan / Infiniti offer several PAID options to help registered NASTF participants to obtain security codes.

If you do not have a NASTF ID go to www.nastf.org to learn more about NASTF and about becoming a participant.

If you have a friendly dealer connection, you may be able to get help with obtaining the necessary INCODE from them. However keep in mind that you must be connected to the vehicle. The INCODE / OUTCODE is a rolling code, meaning each time you connect, the car gives a new and different OUTCODE.

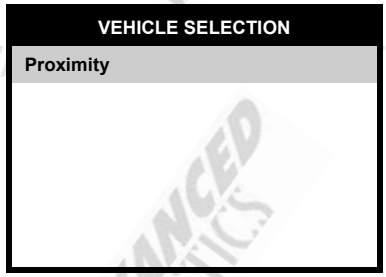
Please be advised AD Tech support CANNOT help with obtaining PIN Codes or with signing up to NASTF.

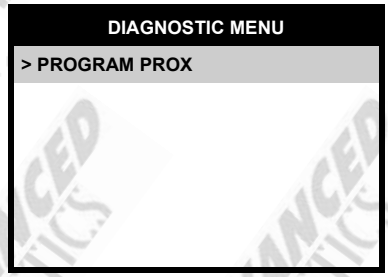
NISSAN / INFINITI 20 Digit Pincode Bypass—ADS198SD

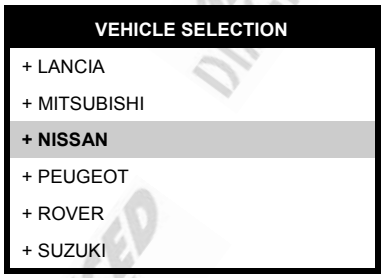
20 Digit Pincode Bypass

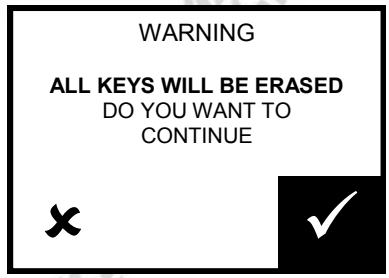
The 20 digit bypass is designed to remove the requirement to enter a 20 digit security code

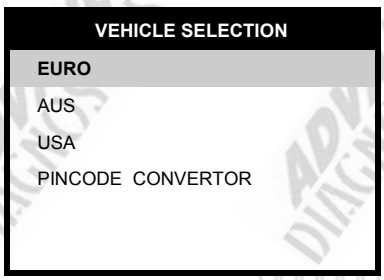
Smart Dongle & ADS198SD software for Smart Dongle is required to use bypass

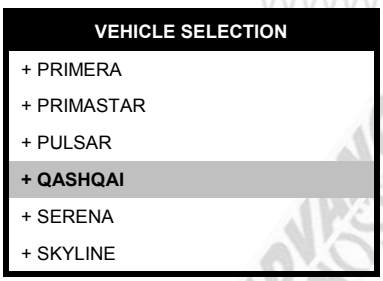


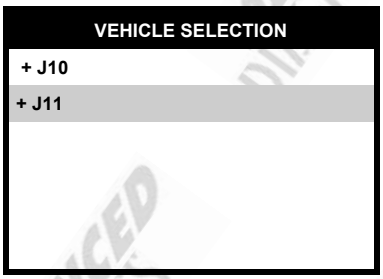


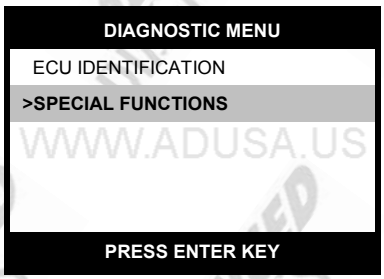












THE STOP / START BUTTON WILL ILLUMINATE WHEN IN PROGRAMMING MODE

NISSAN / INFINITI 20 Digit Pincode Bypass—ADS198SD

20 Digit Pincode Bypass—CONTIN

PROGRAM PROX

PRESS START / STOP BUTTON ONCE

TO SWITCH IGNITION OFF

PRESS ENTER KEY

PROGRAM PROX

PLEASE WAIT

****

PROGRAM KEYS

DO YOU WANT TO PROGRAM MORE KEYS

✗ ✓

CLICK ON THE TICK TO TO PROGRAM ANOTHER KEY

OR CLICK ON THE X AND PROCEED TO NEXT STEP

PROGRAM PROX

PRESS START / STOP BUTTON

KEEP THE FIRST PROX KEY LOGO

TOUCHING THE START / STOP BUTTON UNTIL THE CLUSTER MAKES A BEEPING SOUND

PRESS ENTER KEY

FIRST PROGRAMMED KEY IS USED TO CLOSE THE PROGRAMMING SESSION

RAPID BLEEPS CONFIRM COMPLETION

PROGRAM PROX

PRESS START / STOP BUTTON ONCE

TO SWITCH IGNITION OFF

PRESS ENTER KEY

PROGRAM PROX

PRESS START / STOP BUTTON

TO CHECK ENGINE STARTS

PRESS ENTER KEY

PROCEDURE COMPLETE

PRESS ENTER KEY

GENERAL

1. 5 keys can be programmed on NATS 5, all other system allow 4 keys.
2. NATS 5 requires a PIN code, if the large letter on the antenna label is an A, then the PIN code is 5523, however if the letter is a B, the PIN code is random and will need to be sought from the dealer.
3. On early systems the programming procedure on the AD100 requires that you observe the engine warning light for confirmation of key programming complete. When programming a key, wait for the engine warning light to stop flashing- this indicates a successfully programmed key, insert the next key to be programmed at that point.
4. There are different colour transponders for various signal frequencies.
5. Fault code for "Lock out mode" (when an incorrect key has been used) can be removed with a coded key by turning the ignition on for one minute or, when no coded keys are available, by coding keys.
6. Nissan Petrol NATS2, Fault code 225 read and fuse for headlights and engine management system faulty. Replaced and keys programmed successfully.
7. On petrol Nissan vehicles, if a problem exists within the Engine Management system, then key programming will be blocked. The clear time will continue, with PLEASE WAIT until the fault is cleared.
8. Some vehicles, check the vehicle fuse, as some can be missing and will prevent key programming.
9. If ERROR is received when programming keys, check the transponder that is being used for correct type.
10. Nissan Navara NATS 2/5—use ADC133 & ADC135.
11. Nissan Terrano. If communication problems are experienced try using ADC129.
12. NISSAN K12 Key will not rotate until Brake Pedal Pressed (Only on Automatic vehicles)
13. The security LED is normally mounted in the dashboard area and indicates the status of the system. When a problem is detected, the LED will indicate the fault as listed in the following table when the IGN is ON or in accessory position.
14. If the immobiliser has been locked (incorrect PIN entry), disconnect battery and re-connect, then turn ignition on/ off three times.

CAN SYSTEMS

1. When Programming the Intelligent System the key blade must be used to turn the ignition on & off as instructed by tester. The key will not be programmed otherwise.
2. When programming the Non-Intelligent key the remote will be programmed at the same time.
3. When entering the security code ensure Ignition is switched off & ignition key is REMOVED.
4. If a key is inserted in the ignition and the security symbol flashes quickly this indicates an un-programmed key.

NISSAN MICRA K12 (2003 on) SMART KEY

If the programming procedure has failed and the vehicle will crank but not start then please follow the procedure below…

1. Complete Key programming, disconnect tester and verify that the key light turns GREEN when the brake pedal is pressed and the ignition is turned to the first position.

2. If the key light turns GREEN, the key is programmed, get out of the car and leave it for 2 minutes. Check the vehicle starts after 2 minutes.

3. DO NOT attempt to start the vehicle immediately after key programming

FAULT CODES

P1610 NATS lock mode (unregistered key has been used)
P1611 NATS malfunction - id between BCM and ECM is not good.
P1612 NATS Malfunction - communication not possible between NATS control unit and ECM
P1614 NATS control unit cannot receive the key ID
P1615 NATS control unit receives key signal but the result of verification between the key and the NATS is not good.
AD 100 has these listed as P10, P11, P12, P14, P15 respectively.

PRECAUTIONS

IMPORTANT : PLEASE ENSURE ALL PRECAUTIONS ARE OBSERVED AS INDICATED AT THE FRONT OF THE OPERATING MANUAL.

IN PARTICULAR : For vehicles fitted with STOP/START technology, the battery leads must not be shorted together when the battery is disconnected as this can lead to damage to the car and potential personal injury.

PATHFINDER

IMPORTANT: Before entering programming mode, have in possession all of the transmitters you will be using on the vehicle. Once you program the transmitter, all previous codes will be erased from the memory. The other transmitters will not be functional until you program the transmitters again.

1. Close and lock all doors with the driver's side power lock/unlock switch.
2. Insert key into ignition and remove it from the ignition key cylinder at least six times within 10 seconds. Your Hazard Lamps will flash if you have performed this step successfully. NOTE: Withdraw key completely from ignition cylinder each time. If this procedure is performed too fast, system will not enter programming mode.
3. Insert key into the ignition cylinder and turn to the ACC position.
4. Within 5 seconds, push ANY button on the remote transmitter. Your Hazard Lamps should flash. NOTE: Do not press the button more than one time in the above step. If the button is pressed more than one time, the programming procedure will not be successful.
5. If there are any remaining transmitters (including the old ones), unlock then lock all doors using the driver's side power lock/unlock switch and within 5 seconds, push ANY button on the next remote. Your Hazard Lamps should flash. Repeat this step for each transmitter (including any existing transmitters).
6. Turn the key to the OFF position, remove keys from the ignition, unlock doors using the driver's side power lock/unlock switch and open the driver side door.

TIIDA

1. Close all doors.
2. Lock doors with drivers side power door lock switch.
3. Insert the Key and take out the Key 6 times.
4. Doors will UNLOCK.
5. Turn Key to accessory position.
6. Lock doors with drivers side door lock switch.
7. Press button on remote control.
8. Remove Key and check operation.

ALMERA
PRIMERA
MICRA
VANETTE CARGO
XTRAIL
ALMERA TINO
MAXIMA
SERENA
TERANO II

Ensure all the doors have been unlocked, either by using a good transponder key or remote control plip key.

Procedure

1. Turn the ignition switch from Position 0 to ON 6 times within 10 seconds.
2. Then turn ignition switch to OFF position. Leave key in ignition switch.
3. After 2 seconds, the system will enter programming mode and will flash the warning lights twice.
4. Press and HOLD the unlock button on the Plip.
5. While pressing the unlock button, press the lock button 3 times.
6. Release the unlock button.
7. The warning lights will flash once to indicate successful programming.
8. Repeat procedure 4 to 7 for up to 4 plip key's.
9. When completed turn ignition ON, and the warning lights will flash 2 times.
10. Remove key, and check all plip key's for operation.

Note:
The programming mode will stop when either the ignition is switch ON, 4 plip keys have been programmed or no input signal either from the switch or plip keys has been received for 120 seconds.

NISSAN K12—ECU Control Unit Coding

Replacing the engine control unit on Micra K12:

Code ignition keys using AD100, MVP, Tcode or Codeseeker then:

1. Turn ignition switch "ON" and wait at least 1 second.
2. Turn ignition switch "OFF" and wait at least 10 seconds.
3. Start engine and warm it up to normal operating temperature.
4. Ensure:
   Battery voltage: More than 12.9V (At idle)
   Engine coolant temperature: 70 - 99°C (158 - 210°F)
   PNP switch: ON (Neutral selected)
   Electric loads switch: OFF
5. Turn ignition switch "OFF" and wait at least 9 seconds.
6. Start the engine and let it idle for at least 28 seconds.
7. Disconnect throttle position sensor harness connector (brown), then reconnect it within 5 seconds.
8. Wait 20 seconds.
9. Make sure that idle speed is within specifications.
10. Rev up the engine two or three times. Make sure that idle speed and ignition timing are within specifications.

ITEM SPECIFICATION

Idle speed M/T: 700±50 rpm
A/T: 800±50 rpm (in "P" or "N" position)
Ignition timing M/T: 8±5° BTDC
A/T: 10±5° BTDC (in "P" or "N" position)

QUEST 1996-02

IMPORTANT: Before entering programming mode, have in possession all of the transmitters you will be using on the vehicle. Once you program the transmitter, all previous codes will be erased from the memory. The other transmitters will not be functional until you program the transmitters again.

Procedure
1. Close and lock all doors.
2. Insert and remove key from ignition 6 times within 10 seconds.
3. The parking lamps or interior lights will flash 2 times to confirm programming mode.
4. All existing remotes will be erased.
5. Insert key into ignition and turn to the accessory position ACC.
6. Press the LOCK button on the first remote transmitter to be programmed.
7. The parking lamps or interior lights will flash 2 times to confirm remote is programmed.
8. To program next remote, unlock the vehicle using the LOCK/UNLOCK switch on the drivers door.
9. Press the LOCK button on the next remote transmitter to be programmed.
10. The parking lamps or interior lights will flash 2 times to confirm remote is programmed.
11. Repeat steps 8 and 9 for all remote controls.
12. Open drivers door to exit programming mode.

ALTIMA 2000-01

IMPORTANT: Before entering programming mode, have in possession all of the transmitters you will be using on the vehicle. Once you program the transmitter, all previous codes will be erased from the memory. The other transmitters will not be functional until you program the transmitters again.

Procedure
1. Close and lock all doors.
2. Insert and remove key from ignition 6 times within 10 seconds.
3. The indicators will flash 2 times to confirm programming mode.
4. All existing remotes will be erased.
5. Insert key into ignition and turn to the accessory position ACC.
6. Press the any button on the first remote transmitter to be programmed for at least 1 second or 2 times within 5 seconds.
7. Indicators will flash 2 times to confirm remote is programmed.
8. To program next remote, unlock the vehicle using the LOCK/UNLOCK switch on the drivers door.
9. Press the any button on the next remote transmitter to be programmed for at least 1 second or 2 times within 5 seconds, indicators will flash twice to confirm programming.
10. Repeat steps 8 and 9 for all remote controls.
11. Open drivers door to exit programming mode.

ARMADA	**2004-06**	**MAXIMA**	**2000-06**
TITAN	**2004-06**	**MURANO**	**2003-06**
FRONTIER	**2001-06**	**PATHFINDER**	**1999-04**
XTERRA	**2001-06**	**QUEST**	**2004-06**
SENTRA	**2000-06**	**NAVARA**	**2001-06**

Procedure

1. Close and lock all doors.
2. Insert and remove key from ignition 6 times within 10 seconds.
3. The indicators will flash 2 times to confirm programming mode.
4. All existing remotes will be erased.
5. Insert key into ignition and turn to the accessory position ACC.
6. Press the any button on the first remote transmitter to be programmed .
7. Indicators will flash 2 times to confirm remote is programmed.
8. To program next remote, unlock the vehicle using the LOCK/UNLOCK switch on the drivers door.
9. Press the any button on the remote transmitter to be programmed.
10. Repeat steps 8 and 9 for all remote controls.
11. Open drivers door to exit programming mode.

200SX	**1995-98**	**ALTIMA**	**1998-99**
240SX	**1995-98**	**FRONTIER**	**1998-00**
SENTRA	**1995-99**	**PATHFINDER**	**1996-98**
350Z	**2003-06**	**XTERRA**	**2000**
NAVARA	**1998-00**		

IMPORTANT: Before entering programming mode, have in possession all of the transmitters you will be using on the vehicle. Once you program the transmitter, all previous codes will be erased from the memory. The other transmitters will not be functional until you program the transmitters again.

Procedure

1. Close and lock all doors.
2. Insert and remove key from ignition 6 times within 10 seconds.
3. The indicators will flash to confirm programming mode.
4. All existing remotes will be erased.
5. Insert key into ignition and turn to the accessory position ACC.
6. Press the LOCK button on the first remote transmitter to be programmed.
7. Indicators will flash to confirm remote is programmed.
8. To program next remote, unlock the vehicle using the LOCK/UNLOCK switch on the drivers door.
9. Press the LOCK on the next remote control, and indicators will flash twice to confirm programming.
10. Repeat steps 8 and 9 for all remote controls.
11. Open drivers door to exit programming mode.

300ZX	**1994-96**	**ALTIMA**	**2002-06**
MAXIMA	**1995-99**		

Procedure

1. Close and lock all doors.
2. Open the trunk/tailgate.
3. Insert and remove key from ignition 6 times within 10 seconds.
4. The indicators will flash 2 times to confirm programming mode.
5. All existing remotes will be erased.
6. Unlock the vehicle using the drivers door LOCK/UNLOCK button.
7. Press the LOCK button on the first remote transmitter to be programmed.
8. To program next remote, unlock the vehicle using the LOCK/UNLOCK switch on the drivers door.
9. Press the LOCK on the next remote control, and indicators will flash twice to confirm programming.
10. Repeat steps 8 and 9 for all remote controls.
11. Open drivers door to exit programming mode.

AD35

Remote Control Tester

AD35 is an innovative remote control tester developed to assist with the diagnosis of all types of (IR) Infra Red & (RF) Radio Frequency remote controls for all makes & models.