AD900Pro TRANSPONDER DUPLICATING SYSTEM OPERATING MANUAL

UNLOCKING TECHNOLOGY

ADVANCED DIAGNOSTICS

Version: 5.3

Mar 2011

CONTENTS

ADVANCED DIAGNOSTICS

AD900Pro - PRECAUTIONS

A

1. The hand held diagnostic tool is an electronic piece of equipment, and should not be exposed to excessive sunlight, high temperatures or immersed in liquids.

2. Do not operate the equipment by magnetic sources as this will interfere with the antenna.

3. Keep the unit in a clean environment.

4. Observe normal health and safety precautions when using this equipment.

5. Incorrect connections may damage sensitive electronic devices fitted to the product and the immobiliser.

6. Observe normal anti static handling procedures when using this device or handling electronic components.

7. Keep the antenna area of the unit clean and free of debris or foreign objects.

AD900Pro - INTRODUCTION

B

The professional duplicating machine, AD900Pro, has been designed and built to keep pace with the constant evolution of transponder car keys.

The AD900Pro key duplicator features the most innovative electronic components in the field of radio frequencies thus allowing easy detection, reading and cloning (duplication) of fixed code transponders and identification of cryptographic transponder codes.

The AD900Pro can either be used as a stand alone tool or with PC software which increases its ease of use.

Major features include the ability for copying of Crypto 42, Texas 4C and 4D transponders.

The AD900Pro has been developed to cater for future developments with the ever expanding technology of transponders within Automotive vehicle systems.

The AD900Pro offers complete flexibility. Once the main unit is purchased the functionality can be expanded by adding additional software.

The machine of the future for transponder developments, is the AD900Pro....for professional locksmiths.

Features:

- Copy Fixed Code Transponders
- Copy Crypto Transponders
- Copy Philips 41,42,44 & 45 Crypto
- Copy Texas 4D Crypto Transponder onto Silca EH2/ JMA TPX2/ Keyline TK40
- Copy Texas 4C Fixed Code Transponder onto Silca EH2 or JMA TPX1
- Copy Mercedes CEG GLASS ID33 Rolling Transponders
- Display Transponder Information
- Calculate Pin-Codes From Transponders
- Calculate Pin-Codes From Chassis Numbers
- Unlock Most 48 Transponders (75%)
- Generate Crypto Transponders from blank T5 transponders.
- Crypto ID46 Transponders for Renault – Chrysler and Jeep
- Generate Transponder Logic For Fixed Transponders
- Calculate EEPROM Logic From Transponders
- Modify transponder logic/detail.

These features are described in the section C. Features that are standard on the basic package and those that are purchased as additional modules are identified.

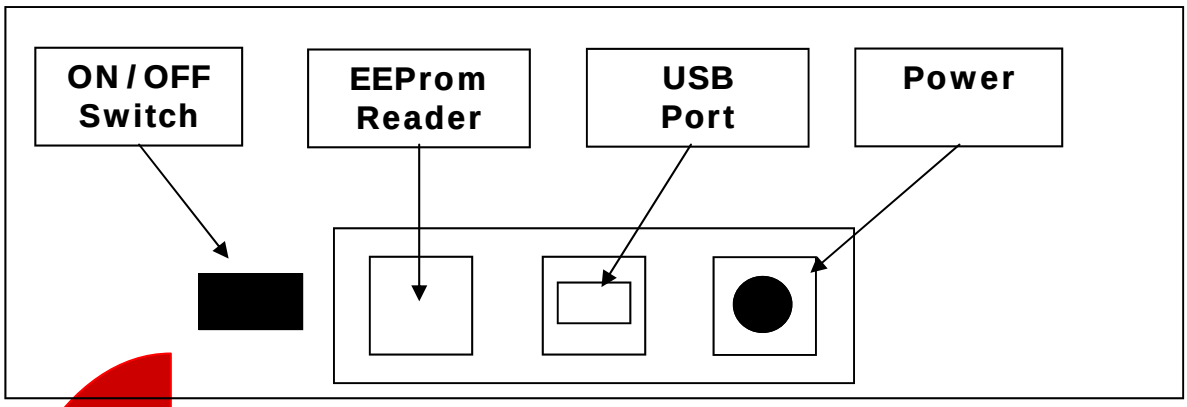
The EEPROM Reading function is an advanced function and also requires an EEPROM-reader.

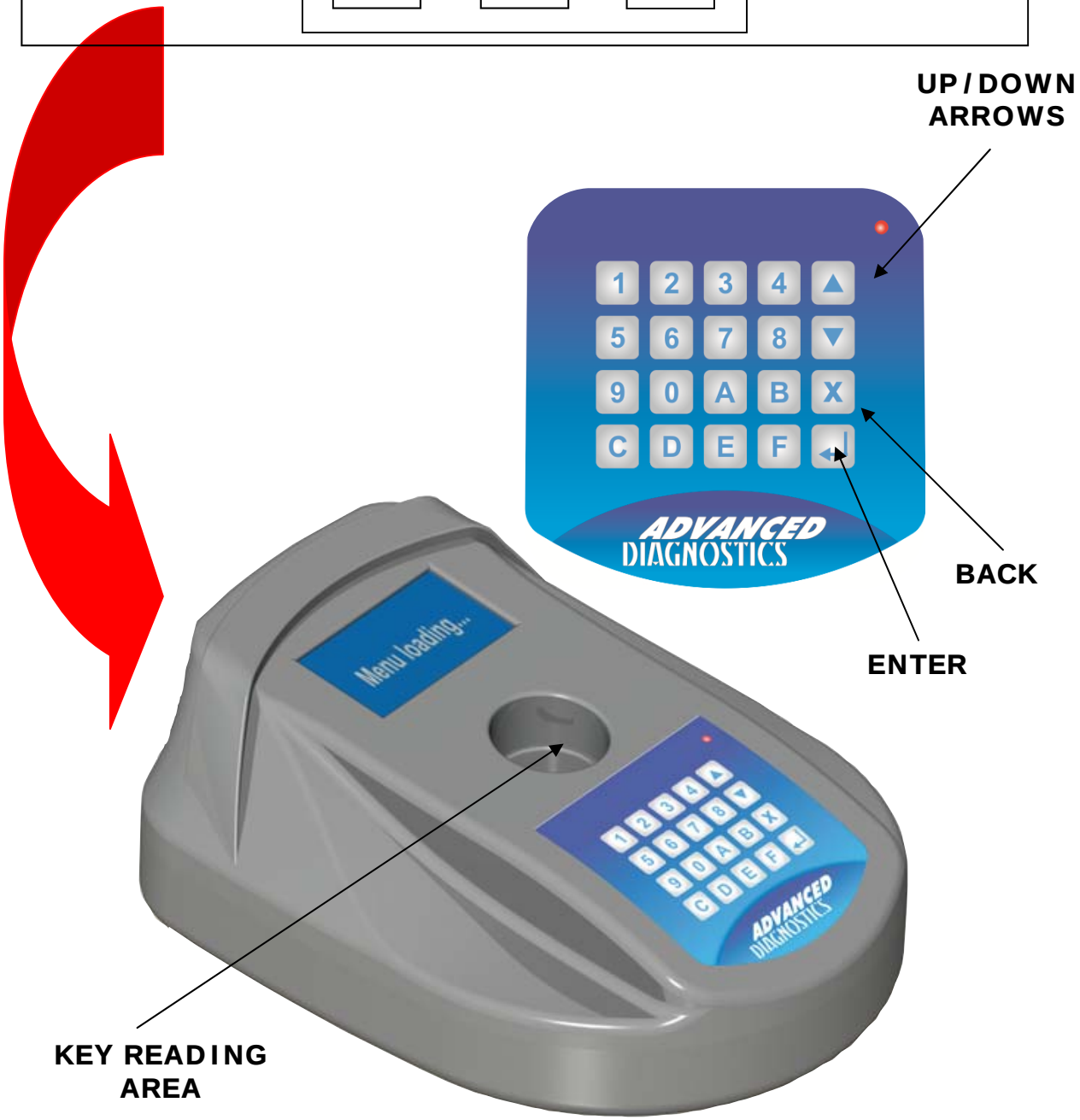
The Transponder Specialist function should only be used by experts and is not technically supported by Advanced Diagnostics.

AD900Pro - INTRODUCTION

B

REAR VIEW





AD900Pro - FEATURES

C

COPYING		Part Of	Transponder	
			Type	AKL Part No
Fixed Code Transponders	Temic 11	**Standard**	**T5**	**AKTP14**
	Temic 12	**Standard**	**T5**	**AKTP14**
	Megamos 13	**Standard**	**T5**	**AKTP14**
	Philips 33	**Standard**	**T5**	**AKTP14**
	Philips 40 White (some)	**Standard**	**T5**	**AKTP14**
	Texas 4C (SILCA EH1 & EH2)	**Standard**	**Silca EH2**	**-**
Crypto Transponders	Some Philips Crypto 40 and 41	**ADS901**	**Special**	**AKTP30**
	Philips Crypto 42	**ADS902**	**Special**	**AKTP30**
	Philips Crypto 44 VAG	**ADS903**	**Special**	**AKTP30**
	Philips Crypto 45	**ADS904**	**Special**	**AKTP30**
	Texas 4C (JMA TPX1)	**ADS905**	**JMA TPX1**	**-**
	Texas Crypto 4D (SILCA EH2)	**ADS906**	**Silca EH2**	**-**
	Texas Crypto 4D (JMA TPX2)	**ADS907**	**JMA TPX2**	**-**
	Texas 4D (Keyline TK40)	**ADS916**	**Keyline TK40**	**-**
	Philips Crypto 46	**ADS917**	**Keyline TK60**	**-**
	ID48 Pre Coded	**ADS918**	**BLANK CAN**	**-**
	Philips Crypto 46	**ADS920**	**JMA TPX3**	**-**

INFORMATION		Part Of	Transponder	
			Type	AKL Part No
Display Transponder Detail	Transponder Types	**Standard**	-	-
	Transponder Codes	**Standard**	-	-
	Locked or not	**Standard**	-	-
	Car brand	**Standard**	-	-
	EEprom codes	**Standard**	-	-
	Pin-Codes	**Standard**	-	-

Standard - Supplied as part of the basic package

AD900Pro - FEATURES

C

UNLOCKING		Part Of	Transponder	
			Type	AKL Part No
Most 48 Transponders	Most transponders are locked during programming so that the transponders cannot be used again. AD900Pro can unlock most megamos crypto transp.	**Standard**	-	-

GENERATING		Part Of	Transponder	
			Type	AKL Part No
Crypto Transponders From Blank Crypto Transponders For Renault/Chrysler Jeep	You can generate 46 Renault, Chrysler and Jeep transponders from blank 46 transponders.	**Standard**	**Blank 46**	**AKTP5**
Transponder Logic For Fixed Transponders		**Standard**	**T5**	**AKTP14**
Crypto Transponders From Blank Crypto Transponders for MB	Mercedes C-E-G Class ID33	**ADS908**	**Special**	**AKTP30**
Transponder Logic For Philips Crypto Transp	Philips Crypto 40,41,42,44 (VAG), 44 mitsu & 45	**ADS909**	**Blank PCF7935**	**AKTP31**
Transponder Logic For Texas Crypto Transp.	Texas Crypto 61,62 & 65	**ADS910**	**Texas Crypto 60**	**AKTP7**
Transponder Logic For Philips Crypto 46 Transponders	Mitsubishi Lancer/Colt, VW Touareg / Phaeton, Porsche Cayenne, Peugeot 307, Audi A8, Citroen C3 / Picasso, BMW E60-64/E65/E87	**ADS913**	**Blank 46**	**AKTP5**

PIN CODE CALCULATING		Part Of	Transponder	
			Type	AKL Part No
From Transponders	Renault Philips 33 (4 Digit)	**Standard**	-	-
	Peugeot Philips crypto 45 (4 digit)	**ADS912**	-	-
	Renault 8 digit (Texas Crypto ID60, ID64)	**ADS915**	60, 64	-
From Chassis Numbers	Hyundai and Kia (last 6 digits of chassis number)	**ADS911**	-	-
	Hyundai and Kia (last 6 digits of chassis number). Turkey vehicles. NLH/NLI chassis	**ADS919**	-	-

Standard - Supplied as part of the basic package

AD900Pro - FEATURES

C

EEPROM READING	Part Of	Transponder	
		Type	AKL Part No
Opel TMS370C002 (ID :40)	AD901	40	Blank
VW TMS370C002 (ID :42)	AD902	42	Blank
VW 24C04 (ID :44)	AD903	44	Blank
Fiat 93C46 (ID :13)	AD904	T5	AKTP14
Alfa romeo 93C46 (ID :33)	AD905	T5	AKTP14
Honda 93C46 (ID :13)	AD906	T5	AKTP14
Honda MC68HC05B6 (ID :33)	AD907	T5	AKTP14
Fiat MC68HC705E6 (ID :11)	AD908	T5	AKTP14
Fiat MC68HC908AZ32 (ID :11)	AD909	T5	AKTP14
Mercedes Sprinter Vito MC68HC05X16 (ID :12)	AD910	T5	AKTP14
Fiat HC9S12 (ID :48)	AD911	48	Blank
Fiat Boxer 93C56 (ID :48)	AD912	48	Blank
VW MC68HC05B8 (ID :33)	AD913	T5	AKTP14
Renault Laguna 93C46 (ID:33)	AD914	T5	AKTP14
Renault Clio2 93C46 (ID:33)	AD915	T5	AKTP14
Renault Clio2 93C66 Siemens (Pin-Code)	AD916	-	-
Fiat 93LC66B (ID :48)	AD917	48	Blank
Bmw MC68HC08EA9 (ID :33)	AD918	T5	AKTP14
Toyota Corolla 98-00 93C66 (ID:4C)	AD919	4C	AKTP24
Toyota Corolla Delson 93C56 (ID:4C)	AD920	4C	AKTP24
Toyota Corolla Bosch 24C02 (ID:4C)	AD921	4C	AKTP24
Toyota Corolla Yaris 93C56 (ID:4C)	AD922	4C	AKTP24
Toyota Corona 24C04 (ID:4C)	AD923	4C	AKTP24
Laguna 2 HC9S12 (Pin-Code)	AD924	-	-
Iveco 93C56 (Pin-Code)	AD925	-	-
Megane 2 HC9S12 (Pin-Code)	AD926	-	-
Alfa Romeo 93C56 (ID :44)	AD927	44	Blank
Mitsubishi 93C56 (ID :44)	AD928	44	AKTP23
Volvo 93C56 / 66 (ID :44)	AD929	44	Blank
PSA 93C46 (ID :33)	AD930	AKTP14	AKTP14
Mitsubishi 24C01 (ID :4C)	AD931	4C	Blank
Daihatsu 93C66 (ID :4C)	AD932	4C	Blank
Audi 93C46 (ID :13)	AD933	T5	AKTP14
Nissan- Subaru MC68HC05B6 (ID :33)	AD934	T5	AKTP14
Mercedes Sprinter Vito MC68HC908AZ32 (ID:12)	AD935	T5	AKTP14
Opel MC68HC05B6 (ID :33)	AD936	T5	AKTP14
Mitsubishi 93C46 (ID :33)	AD937	T5	AKTP14
Fiat Scudo 95080 (ID :33)	AD938	T5	AKTP14
Mazda MC68HC705P3 (ID:12)	AD939	T5	AKTP14
Peugeot 206 MC68HC05B16 (Pin-Code)	AD940	-	-
Renault Megane 1 MC68HC05B16 (ID :33)	AD941	T5	AKTP14
Mercedes Actros-Atego 93c56/86 (ID :13)	AD942	T5	AKTP14

AD900Pro - FEATURES

C

EEPROM READING	Part Of	Transponder	
		Type	AKL Part No
Toyota Yaris 25080 (ID:4C)	AD943	4C	AKTP24
Toyota Rav4 95080 (ID:4C)	AD944	4C	AKTP24
Suzuki Swift 24C01 (ID:4C)	AD945	4C	AKTP24
Peugeot MC68HC705E6 (ID:33)	AD946	T5	AKTP14
Hyundai Galopper 93C66 (ID:4C)	AD947	4C	AKTP24
Toyota Avensis MC68HC705E6 (ID:4C)	AD948	4C	AKTP24
Peugeot Bike MC68HC05B8 (ID:11)	AD949	T5	AKTP14
Renault Megane 8 Digit Siemens (P)	AD950	-	-
Ducati Bike 24C16(ID :11)	AD951	T5	AKTP14
Peugeot Piaggio Bike MC68HC705E6(ID :11)	AD952	T5	AKTP14
Opel Isuzu Megamos 93C46(ID :13)	AD953	T5	AKTP14
Fiat Lancia Marelli MC68HC908AZ32(ID :48)	AD954	48	Blank
Suzuki Swift 93C66(ID :4C)	AD955	4C	AKTP24
Ford Transit TMS370C002(ID :4C)	AD956	4C	AKTP24
Volvo Bosch 93C46(ID :33)	AD957	T5	AKTP14
Chrysler 24C02(ID :64)	AD958	4D	AKTP21
Toyota Avensis MC68HC705E6(ID :4C)	AD959	4C	AKTP24
Mazda Denso 93C56(Pin-Code)	AD960	-	-
Nissan NATS5 TMS370C036(ID :60)	AD961	4D	AKTP7
Fiat,Lancia BSI Delphi 95160/320(ID :48)	AD962	48	Blank
BMW EWS4 MC9S12DG64(ID :33)	AD963	T5	AKTP14
Renault Sagem 93C66(ID :46)	AD964	PHILIPS CRYPTO 2	AKTP16
Fiat: Grande Punto, New 500 93C86(ID :46)	AD965	-	-
Ford Transit , Mondeo TMS370C002(ID :4C)	AD966	4C	AKTP24
Daewoo 93C46(ID :13)	AD967	T5	AKTP14
Mazda Lucas 93C46(ID :33)	AD968	T5	AKTP14
Fiat: Panda MC9S12DG128(ID :46)	AD969	-	-
BMW: CAS2 MC9S12DG256(ID :46)	AD970	-	-
Ford 93C56(ID :63)	AD971	T17	AKTP15
Ford 95040(ID :60)	AD972	T7	AKTP10
Ford 93C86(ID :63)	AD973	T17	AKTP15
Ford 95040/80/160(ID :60)	AD974	T17	AKTP15
Nissan: TMS(ID :41)	AD975	T11	AKTP8
MAN: 25C128/256(ID :13)	AD976	T5	AKTP14
Renault Sagem: 93C66(ID :46)	AD977	-	-
Yamaha: S29190(ID :60)	AD978	4D	AKTP7
Isuzu 93C46(ID :48)	AD979	48	Blank
Fiat 93C86(ID :46)	AD980	48	Blank
Ford MC9S12H256(ID :63)	AD981	T17	AKTP15
Renault Truck 93C46 – ID13	AD982	T5	AKTP14
Toyota Celica 24C04 – ID33	AD983	T5	AKTP14

AD900Pro - FEATURES

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EEPROM READING	Part Of	Transponder	
		Type	AKL Part No
Chevrolet Evanda-Epica (ID :60)	AD984	T17	AKTP15
Ducati Motorbike Digitek (ID :12)	AD985	T5	AKTP14
Renault Espace Valeo (ID :33)	AD986	T5	AKTP14
Ford Focus-KA Delphi (ID :4C)	AD987	4D	AKTP7
Chery (ID :44)	AD988	4C	AKTP24
Aprilla Scooter Dashboard (ID :12)	AD989	T5	AKTP14
Renault Clio-3 (ID :46)	AD990	48	Blank

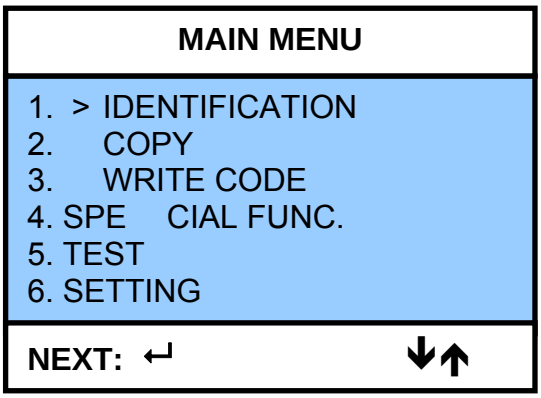
SECTION D

AD900Pro
GENERAL OPERATION

AD900Pro - GENERAL OPERATION D

The following pages are a guide to using the AD900Pro as a stand alone unit. The same functions are also available using the PC software (please refer to the appropriate section).

MAIN MENU



1. IDENTIFICATION

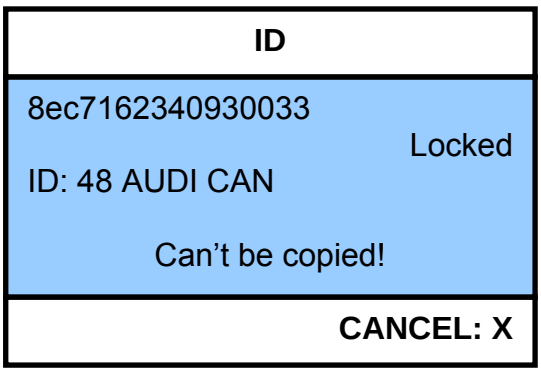
Displays information relating to transponders including:

- Transponder logic
- Transponder type
- Some car brands
- If it is a crypto transponder
- If the transponder is locked/unlocked
- If the transponder can be copied or not

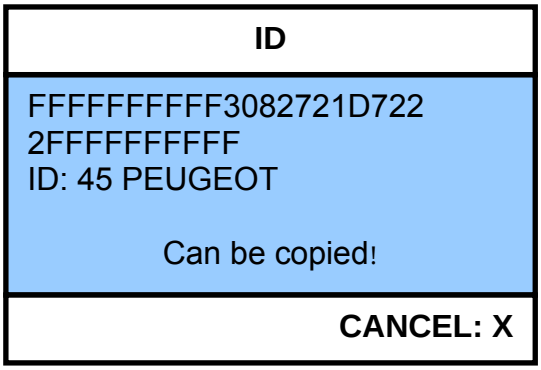
Procedure

A. Ensure **>** is aligned with **IDENTIFICATION**
B. Place key into the reading area
C. Press ↵

Examples of Identification screens



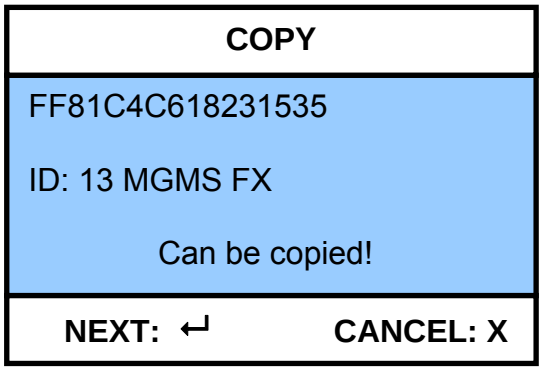
OR



D. To read more keys, press **X** to return to main menu

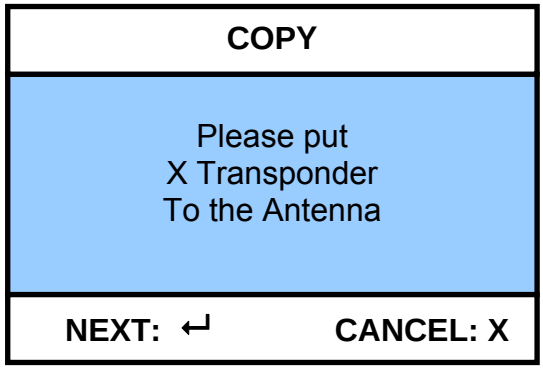
2. COPY

Copy allows many types of transponders to be copied to duplicate keys.
For a list of transponders that can be copied, refer to the **FEATURES** section of this manual.

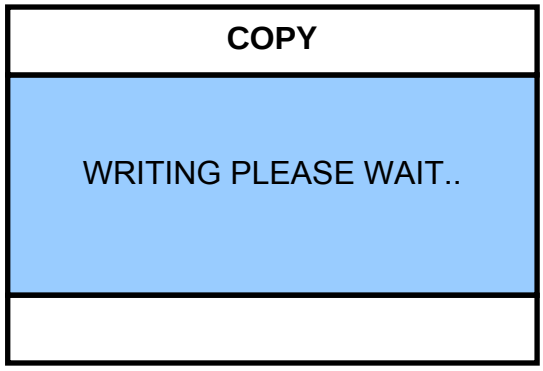


Procedure For Copying 11,12,13,33 & T5 Fixed Code Transponders

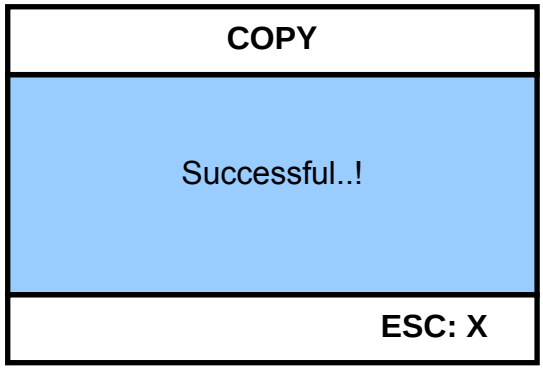
A. Ensure **>** is aligned with **COPY**
B. Place key into the reading area
C. Press ↵
D. The transponder is read.
E. Remove the key
F. Press ↵
G. The screen will instruct what type of transponder to use.



H. Insert blank key.
I. Press ↵

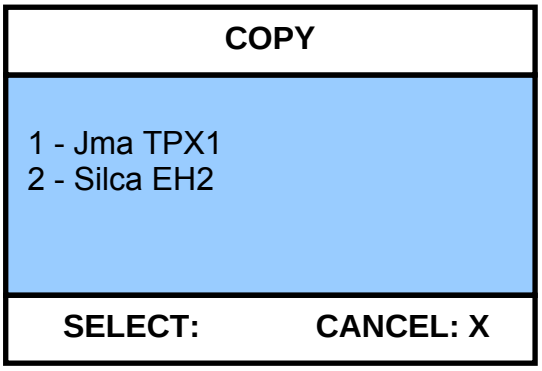


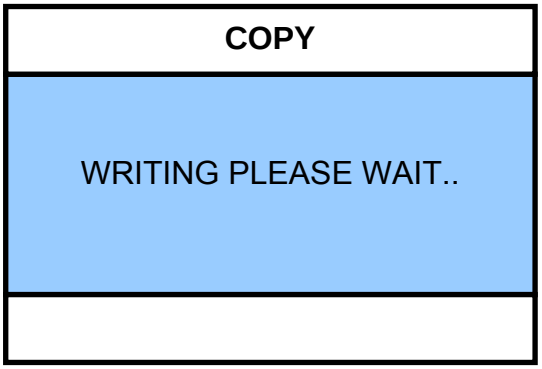
J. To copy more keys, press **X** to return to main menu

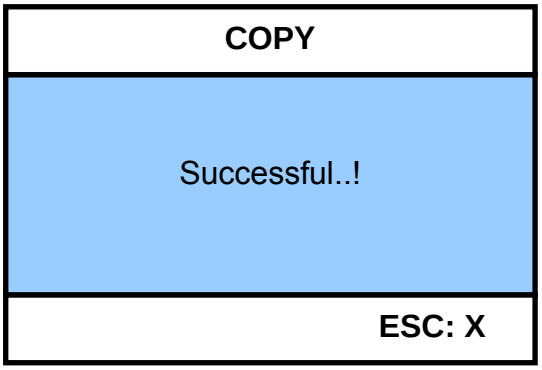


Procedure for copying Texas 4C Fixed Code Transponder

A. Ensure **>** is aligned with **COPY**
B. Place key into the reading area
C. Press ↵
D. The transponder is read.
E. Remove the key
F. Press ↵
G. Insert blank key.
H. Press 1 or 2 to select type of transponder to be copied onto.
Note: JMA TPX1 is an additional software module and will only be active if purchased.







I. To copy more keys, press **X** to return to main menu

Copying Texas 4D Crypto Transponder

This type of transponder can be copied in 2 ways

1. **Without PC & Internet connection**
   To use the AD900Pro without a PC, you also require the AD980 Texas Crypto module.
   Please refer to the instructions detailed below.

2. **With PC and Internet connection**
   This uses the AD900Pro in conjunction with a PC and internet connection.
   Please refer to the instructions on page 15 & 16.

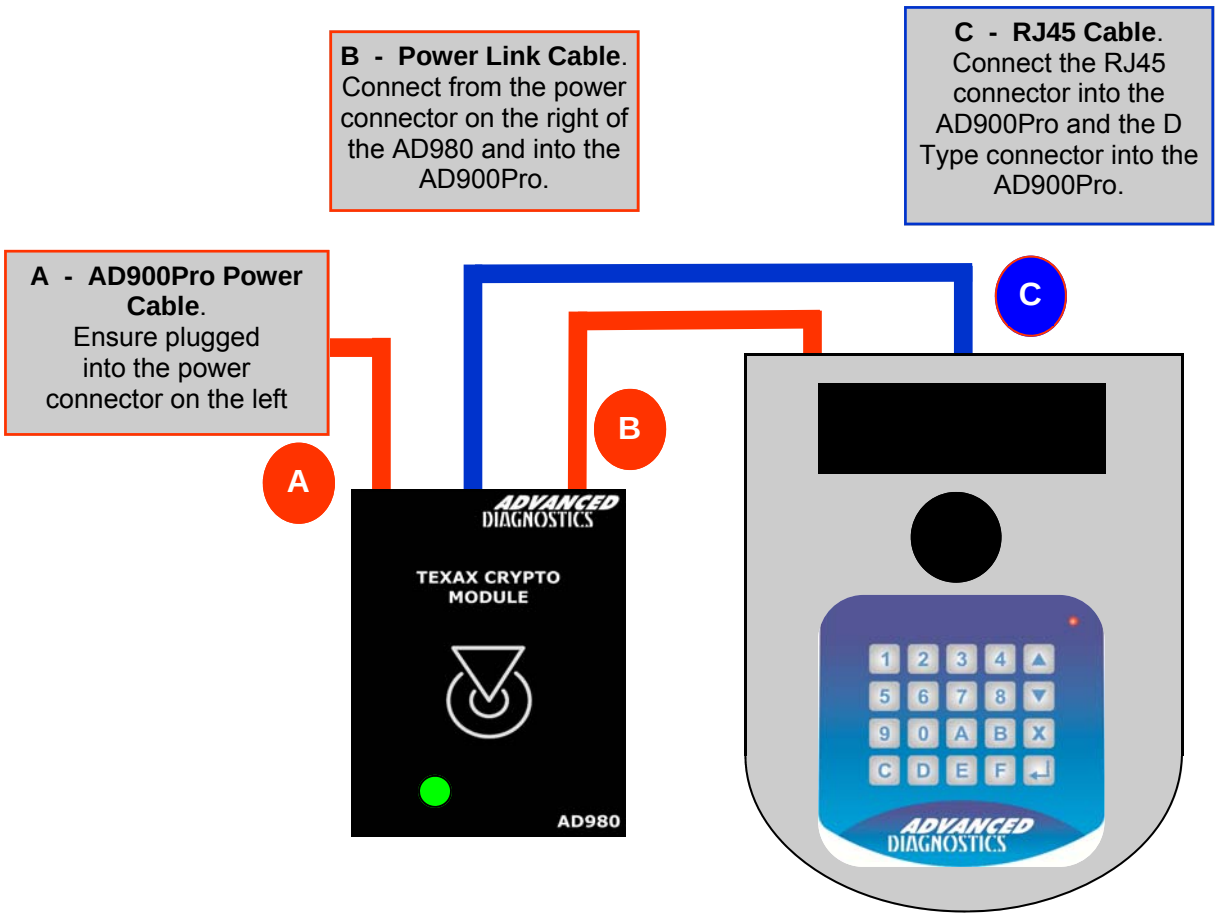
   Note: Both methods of copying 4D transponders can be copied into either Silca EH2, JMA TPX2 or Keyline TK40 transponders.

1. WITHOUT PC & INTERNET CONNECTION

The AD980 is supplied with the following:

- x1 AD980 Module
- x1 RJ45 to 9 Pin D Type lead
- x1 Power link cable

Please connect the equipment as follows:

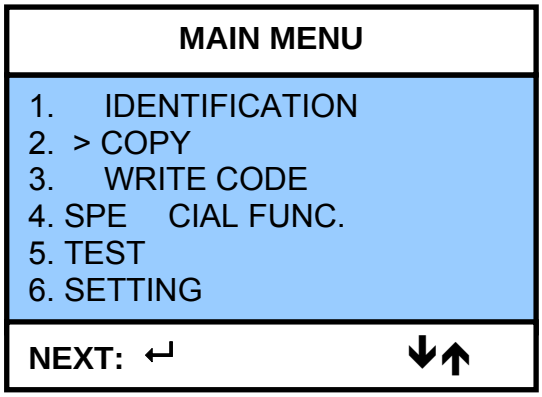


AD900Pro - GENERAL OPERATION

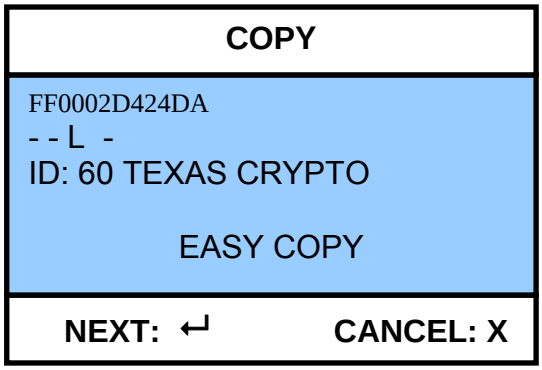
D

Procedure for copying Texas 4D Crypto Transponder

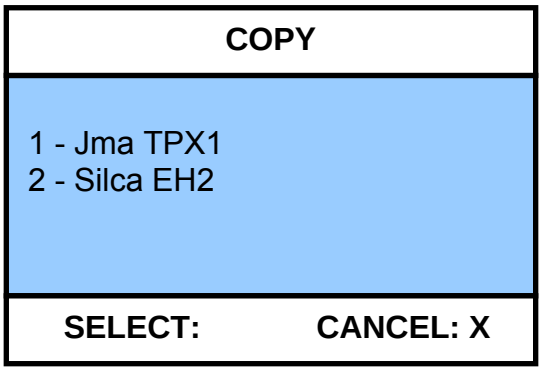
A. Connect the equipment as previously shown
B. The AD980 LED should illuminate green when power connected.
C. Turn AD900Pro on and wait until main menu displayed.
D. Insert the key to be copied & check it's a 4D VIA the Identification function.
E. Press **CANCEL X**. to return to the main menu
F. Select **Copy**



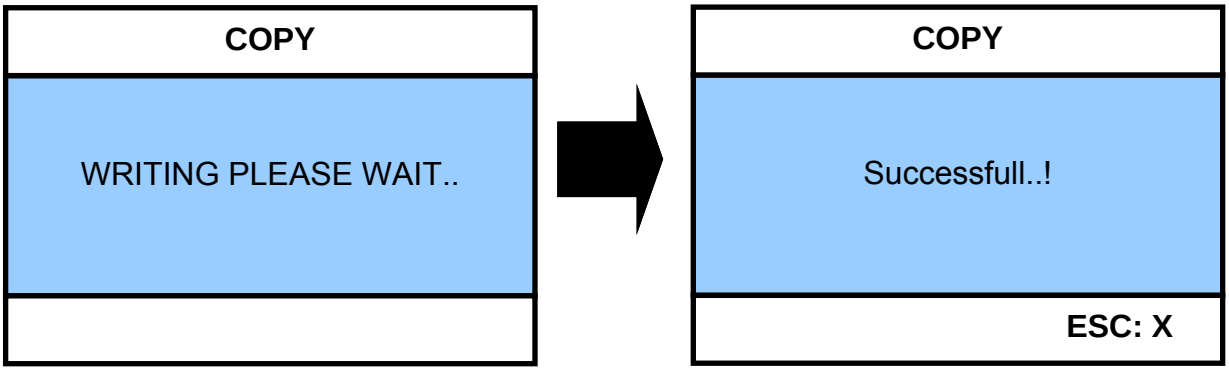
G. The transponder detail will be displayed. Press **NEXT** ↵



H. Press 1 or 2 to select type of transponder to be copied onto.
Note: JMA TPX1 is an additional software module and will only be active if purchased.



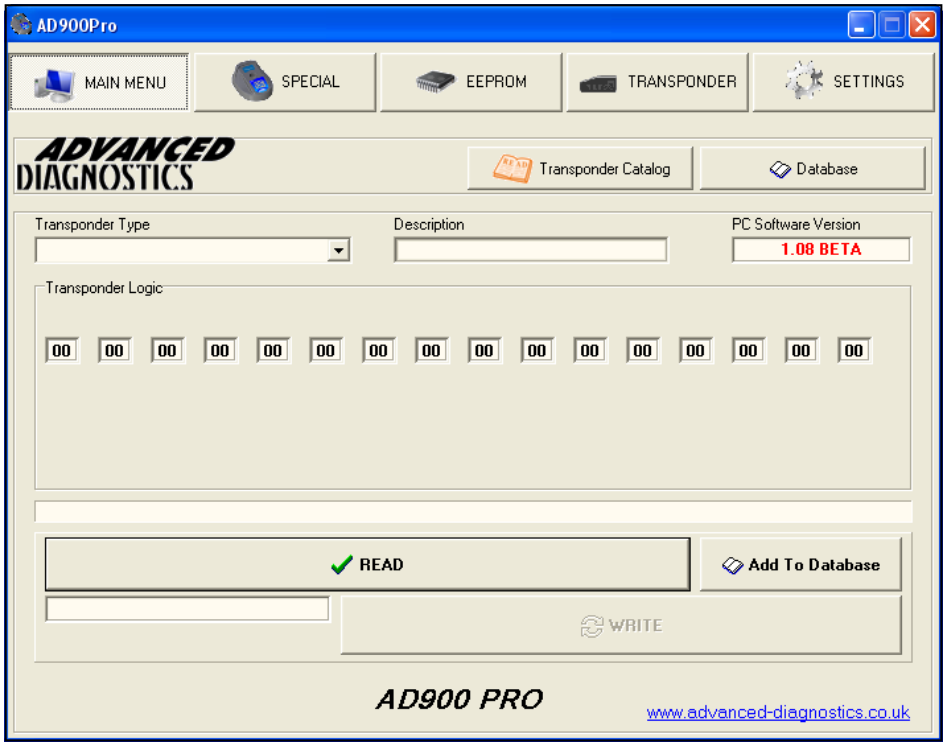
I. Once finished, to copy more keys, press **X** to return to main menu



2. WITH PC & INTERNET CONNECTION

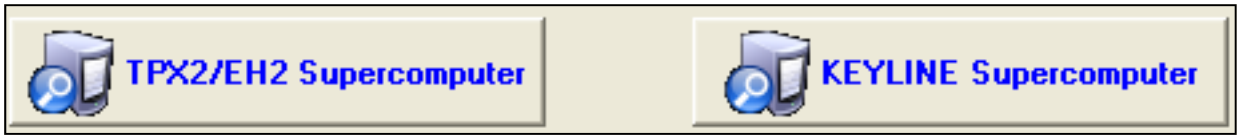
Procedure for copying Texas 4D Crypto Transponder

To copy this type of transponder, the PC software must be used as an internet connection is required. 4D transponders can be copied into either Silca EH2, JMA TPX2 or Keyline TK40 transponders.

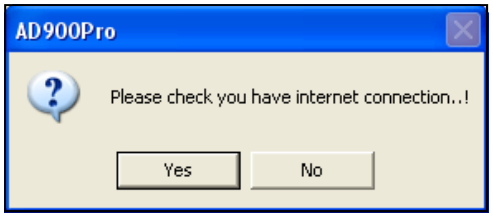


A. Select **MAIN MENU** tab.
B. Place key into the reading area.
C. Click **READ**

D. Transponder detail will be displayed
E. Click the appropriate button for the type of transponder being copied to.

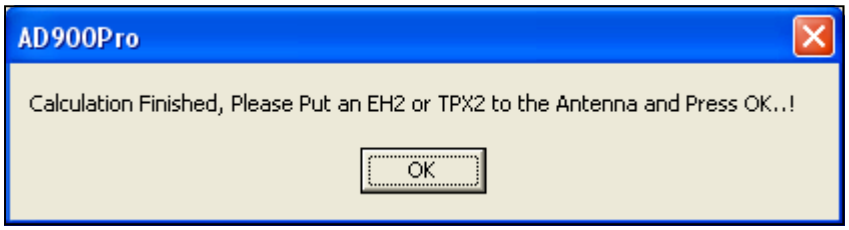


F. Click **YES** to confirm you have internet connection (can take 15 mins)

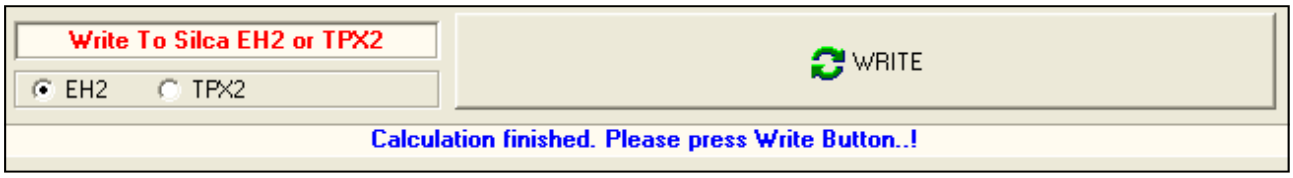


G. When the web calculation has finished one of the following dialog box will appear, click **OK**.

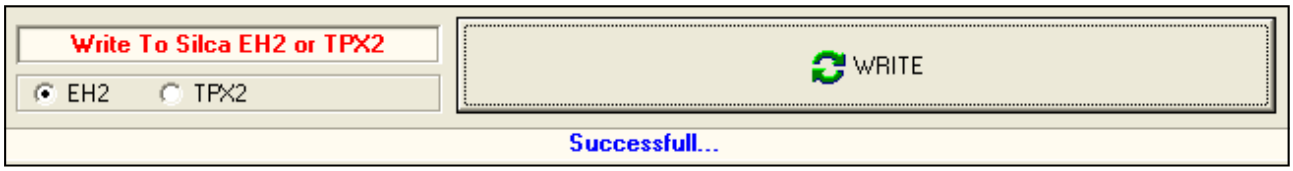
EH2 or TPX2 Selected



i) Remove the key that has just been read.
ii) Place either an **EH2** or **TPX1** transponder into the key reading area.



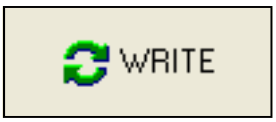
iii) Select the appropriate transponder type to copy onto.
iv) Next click **WRITE**.



v) The status bar will indicate if the copying process was successful.

TK40 Selected

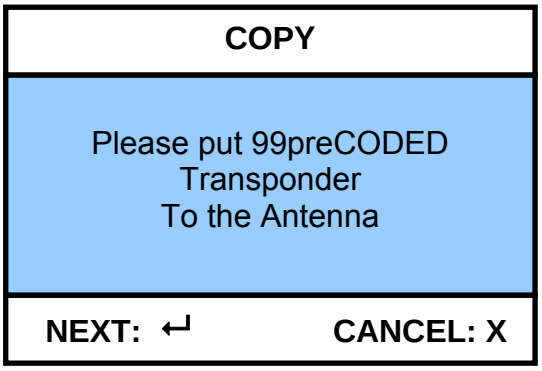
i) Remove the key that has just been read.
ii) Place a **TK40** transponder into the key reading area.
iii) Next click **WRITE**.



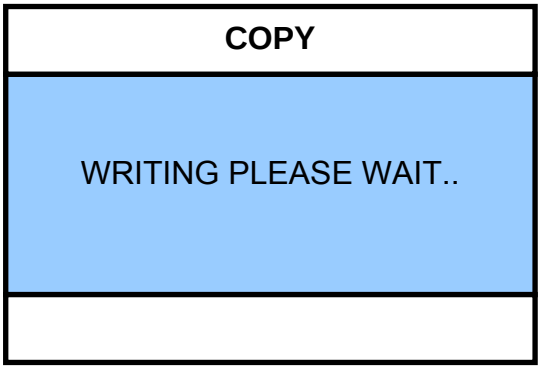
v) The status bar will indicate if the copying process was successful.

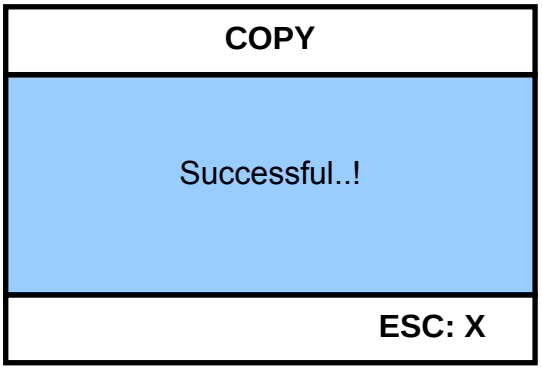
Procedure for copying Philips 41,42,44 & 45 Crypto Transponder

A. Ensure **>** is aligned with **COPY**
B. Place key into the reading area
C. Press ↵
D. The transponder is read.
E. Remove the key
F. Press ↵



G. Insert blank key with special transponder (AKTP30).
H. Press ↵





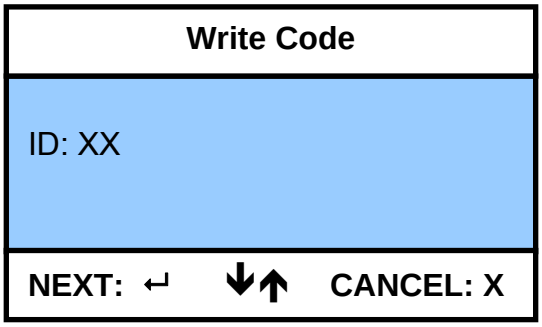
I. To copy more keys, press **X** to return to main menu

3. WRITE CODE

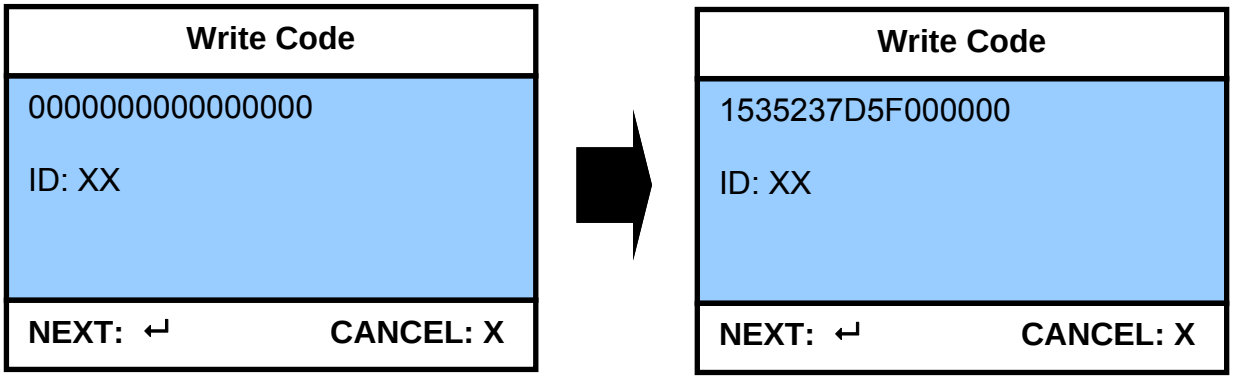
Allows transponder logic to be written onto a blank transponder

Procedure For Writing Logic Onto A T5 Transponder

A. Ensure **>** is aligned with **WRITE CODE**
B. Press ↵
C. Using the 🡻🡹 select the type of transponder that wish to write onto a blank transponder.
D. Press ↵

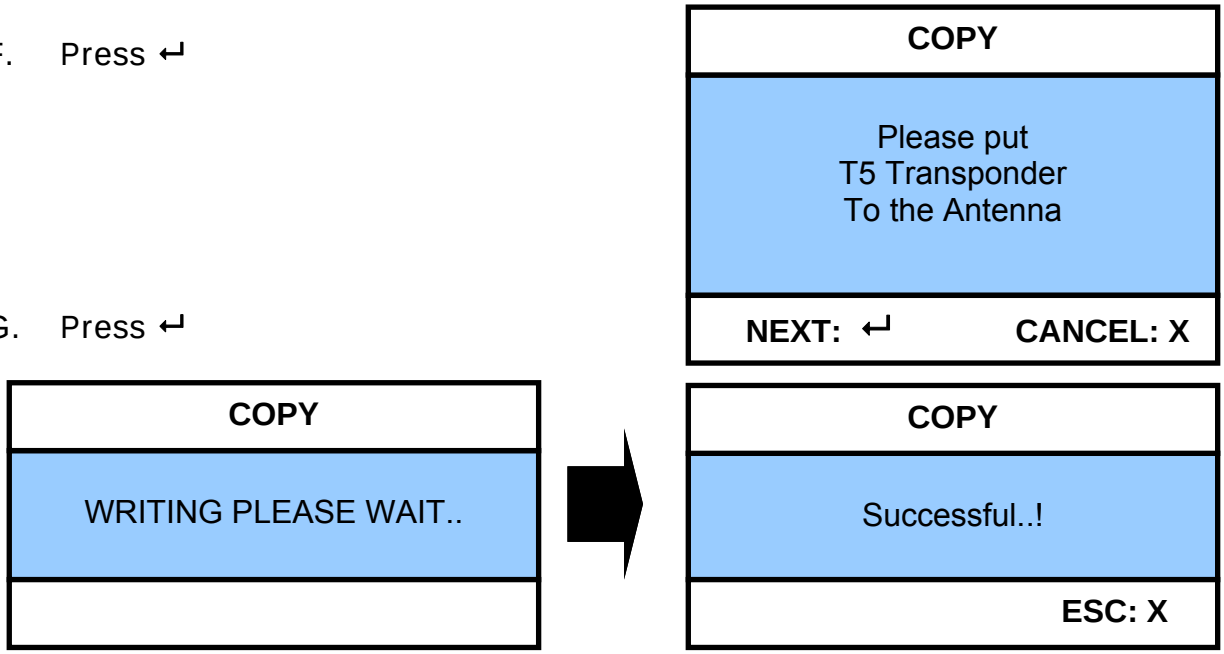


E. Type in logic using the keypad.
Note: The logic that is on the transponder is either 8,16 or 32 digits. The number of digits shown on the display corresponds to the amount of digits that need to be entered.



F. Press ↵

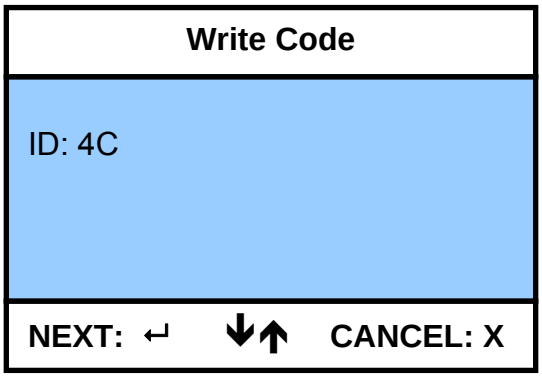
G. Press ↵



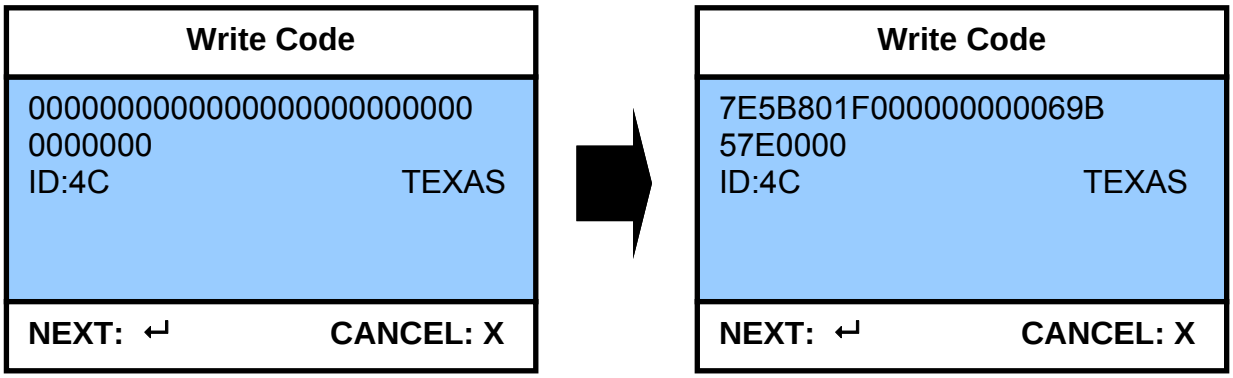
H. To write more logic, press **X** to return to main menu.

Procedure For Writing Texas 4C Logic Onto A Silca EH2 or JMA TPX1 Transponder

A. Ensure **>** is aligned with **WRITE CODE**
B. Press ↵
C. Using the 🡻🡹 select ID 4C type of transponder logic.
D. Press ↵

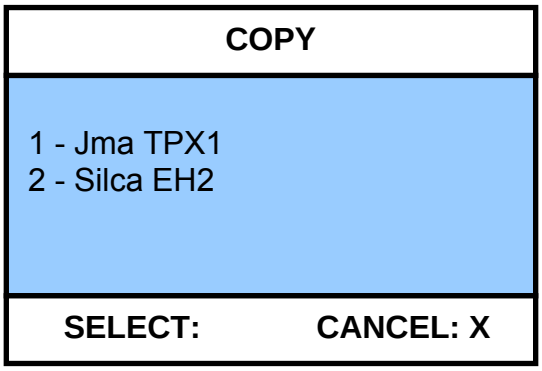


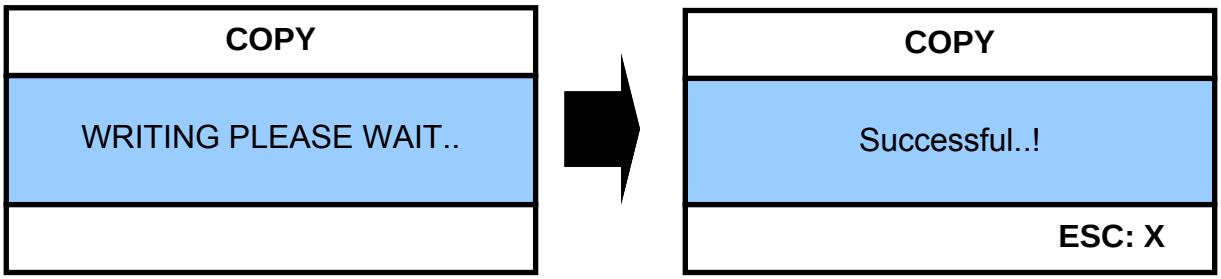
E. Type in logic using the keypad.



F. Press ↵

G. Press 1 or 2 to select type of transponder to be copied onto.
Note: JMA TPX1 is an additional software module and will only be active if purchased.





H. To write more logic, press **X** to return to main menu

4. SPECIAL FUNCTION

Provides the ability to access information For many transponders (Refer to FEATURES Section):

- Pin Code Calculating
- Unlock 48
- Generate random code

SPECIAL
1. > PIN CODE 2. 48 UNLOCK 3. RANDOM CODE
NEXT: ↵ ↓↑ CANCEL: X

PIN CODE

Select Pin Code required by moving ↓↑

PIN CODE
1 > HYUNDAI CODE 2 KIA PIN 3 33 RENAULT PIN 4 45 PSA PIN 5 HYUNDAI (TURKEY)
NEXT: ↵ CANCEL: X

Hyundai & Hyundai manufactured in Turkey

Enter last 6 digits of the chassis number using the keypad and press ↵

HYUN. PIN
Last 6 Digit of Chassis Number 000000
NEXT: ↵ CANCEL: X

HYUN. PIN
PIN CODE : XXXXXX
CANCEL: X

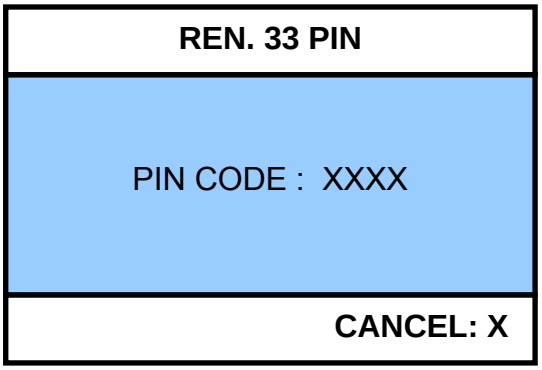
Kia

Enter last 6 digits of the chassis number using the keypad and press ↵

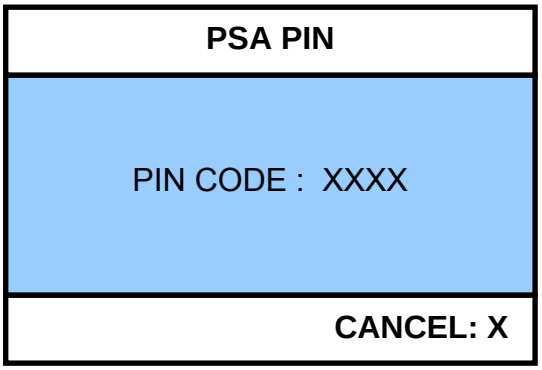
KIA PIN
Last 6 Digit of Chassis Number 000000
NEXT: ↵ CANCEL: X

KIA PIN
PIN CODE : XXXXXX
CANCEL: X

Renault 33 Pin
Place key into reading area and press ↵

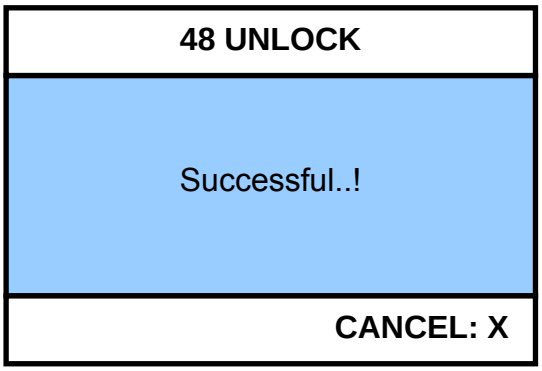


45 PSA Pin
Place key into reading area and press ↵



48 UNLOCK

Allows approx 75% of ID48 (T6) VAG transponders to be unlocked and re-used.



RANDOM CODE

Select function required by moving ↓↑

RANDOM CODE
1. > FIX CODE GENER. 2. CRYPTO GENER. 3. HITAG2 GENER. 4. MERCE DES GENER. 5. PRECODING 48 CAN
NEXT: ↵ ↓↑ CANCEL: X

1. FIX CODE GENERATOR

Generates logic for transponders that can be programmed onto a T5 or Philips ID33 transponder.

Procedure

A. Ensure **>** is aligned with **FIX CODE GENER**

B. Press ↵

C. Using the ↓↑ select type of transponder logic.

RANDOM CODE
MEGAMOS - MEG ID: 13
NEXT: ↵ ↓↑ CANCEL: X

D. Place either T5 or 33 transponder into the reading area.

E. Press ↵

RANDOM CODE
Successfull..!
CANCEL: X

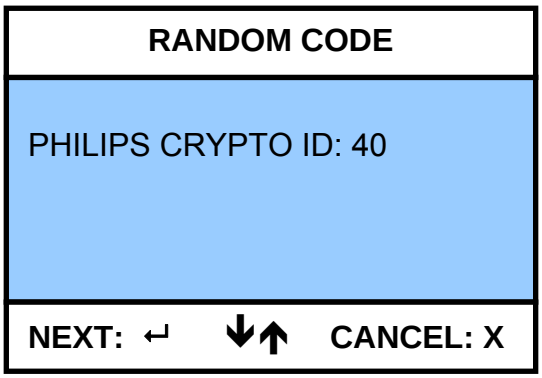
F. The transponder can now be programmed into a vehicle.

2. CRYPTO GENERATOR

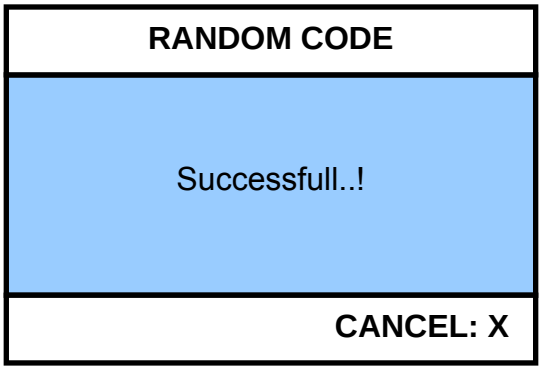
Generates logic for Crypto transponders.

Procedure

A. Ensure **>** is aligned with **CRYPTO GENER**
B. Press ↵
C. Using the 🡻🡹 select type of transponder logic.



D. Place AKTP30 transponder into the reading area.
E. Press ↵



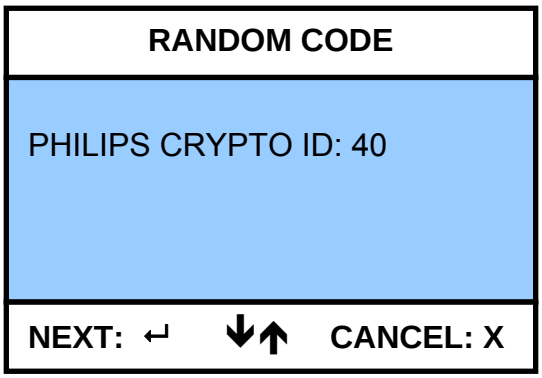
F. The transponder can now be programmed into a vehicle.

3. Blank ID46 HITAG2 GENERATOR

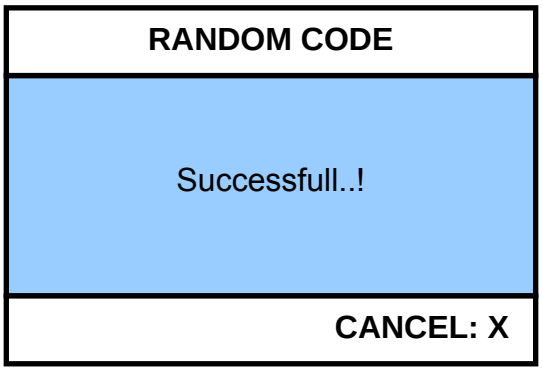
Generates logic for blank 46 transponders so they can be programmed used for Chrysler, Jeep, Renault & Mitsubishi.

Procedure

A. Ensure **>** is aligned with **HITAG2 GENER**
B. Press ↵
C. Using the 🡻🡹 select type of transponder logic.



D. Place blank ID46 transponder into the reading area.
E. Press ↵



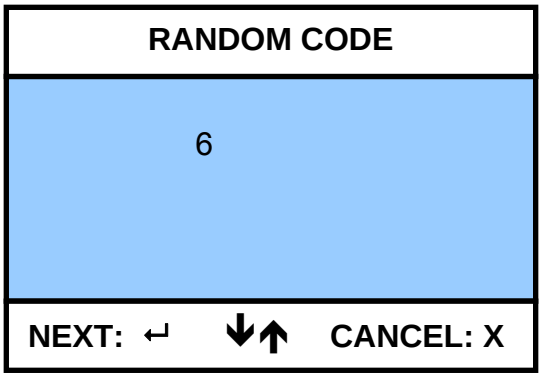
F. The transponder can now be programmed into a vehicle.

4. MERCEDES CEG GLASS ID33 ROLLING TRANSPONDER

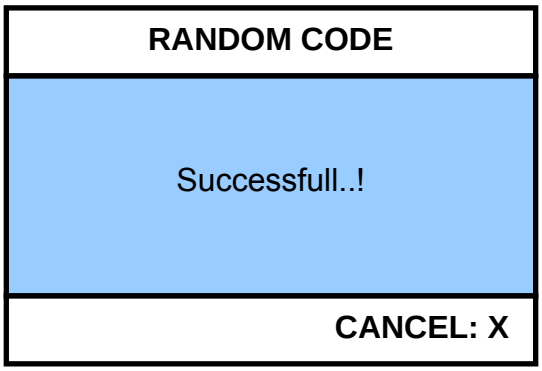
Generates logic for early Mercedes.
Mercedes ID33 transponder is Rolling transponder and it is not possible to copy a Rolling transponder.
However, this facility allows you to generate ID33 transponder logic for Mercedes and produce a transponder that will start the car directly.
It means you can generate a transponder for Mercedes even if the customer has lost the keys.

Procedure

A. Ensure **>** is aligned with **MERCEDES GENER**
B. Press ↵
C. Using the 🡻🡹 select either slot 6,7 or 8 to program a key into.



D. Place special transponder (AKTP30) into the reading area.
E. Press ↵



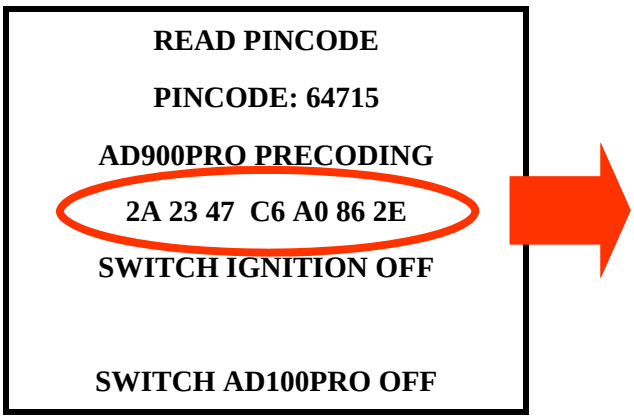
F. The transponder can now be programmed into a vehicle.
Note: remember the slot number that was programmed.

5. PRE-CODING 48 CAN

Allows blank 48 CAN transponders to be pre-coded to a specific vehicle.
There are 4 types of blank transponders ie Audi, VW, Seat & Skoda.
If pre-coding a transponder for a VW then a blank VW CAN transponder must be used and likewise for the other makes.

Procedure

A. Using your PRO key programming device, select the **READ PINCODE** function within the appropriate manufacturer selection.
B. Follow the procedure through until the following screen is displayed.



THIS IS THE 7 BYTES OF DATA REQUIRED FOR PRE-CODING THE CAN TRANSPONDERS.

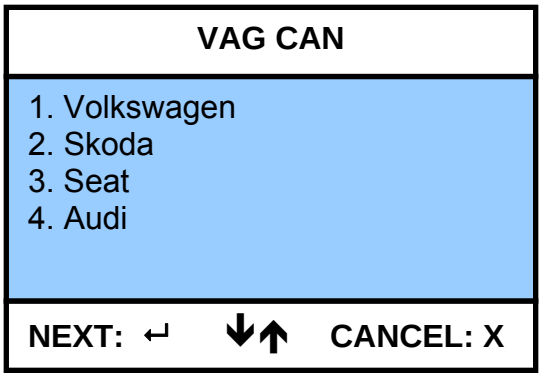
IF ALL 7 BYTES ARE DISPLAYED CONTINUE WITH STEP C TO STEP K.

IMPORTANT: IF XX IS SHOWN AS THE 7TH BYTE (AS SHOWN BELOW), THEN GO TO STEP L .

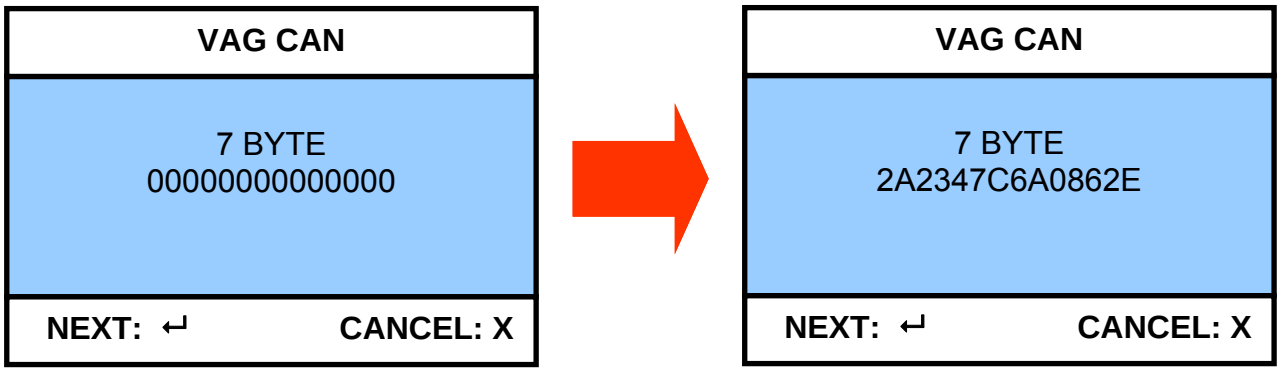
2A 23 47 C6 A0 86 **XX**

C. Record the 7 bytes of data as it will be required to be entered on the AD900Pro.

D. Switch the AD900Pro on.
E. Select **SPECIAL FUNCTIONS**, then **RANDOM CODE**, then **PRECODING 48 CAN** & Press ↵
F. Using the ↓↑ select vehicle make.

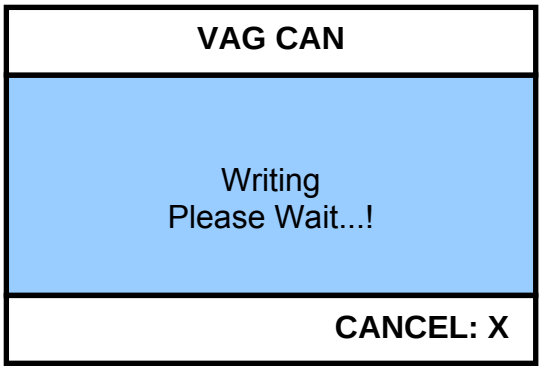


G. Enter the 7 bytes of data using the AD900Pro keypad.

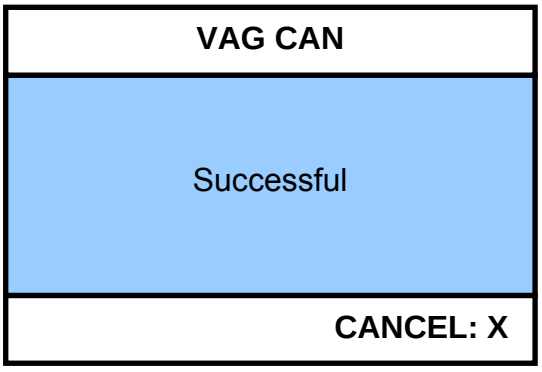


H. Place the blank 48 CAN transponder (correct manufacturer) into the AD900Pro reading area

I. Press ↵



J. The AD900Pro will display Successful when the transponder has been pre- coded.



K. The transponder can now be programmed into the vehicle as normal using the Pro key programming device.

L. IF XX APPEARS AS THE 7TH BYTE OF DATA, GO TO STEP M.

Note: For this procedure you will need to have the AD900Pro in/next to the vehicle for convenience. You can use the vehicle lighter socket to power the AD900Pro with an appropriate cable.

M. Record the 6 bytes of data as it will be required to be entered on the AD900Pro.

N. Select KEY INFORMATION menu option from the key programming tool. The following screen will be displayed.

KEY INFORMATION	
AUTHENTICATION:	*Yes or No*
LOCKBITS SET:	*Yes or No*
KEY AUTHORISED:	*Yes or No*
IMMOBILISER STATUS (VARIES)	
PRESS ENTER KEY	

The status of various key information is displayed as either a **YES** or **No** **AUTHENTICATION** is what you are interested in for this procedure.

At this stage:

i) Leave the Key programming tool connected to the vehicle and displaying this screen.

ii) The ignition can be switched off and the key removed as the tester will remain powered.

O. Switch the AD900Pro on.

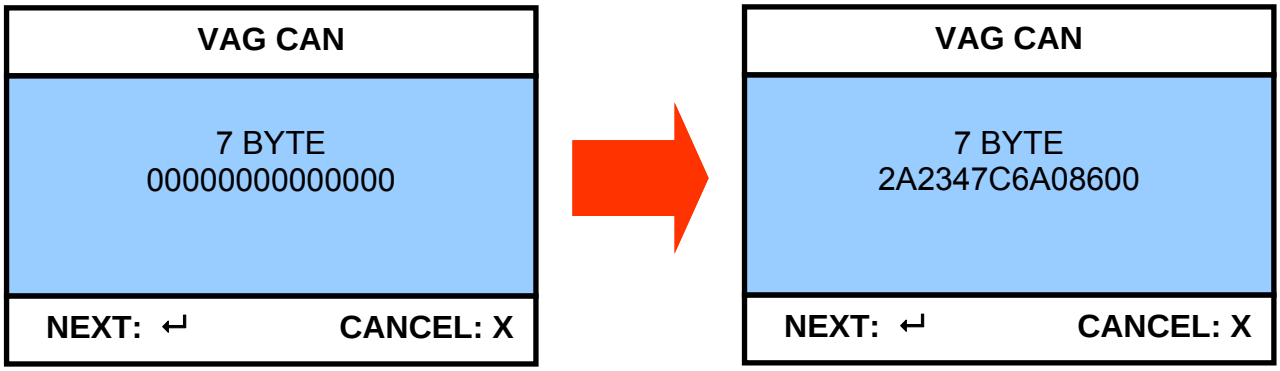
P. Select **SPECIAL FUNCTIONS**, then **RANDOM CODE**, then **PRECODING 48 CAN** & Press ↵

Q. Using the 🡻🡹 select vehicle make.

VAG CAN
1. Volkswagen 2. Skoda 3. Seat 4. Audi
NEXT: ↵ 🡻🡹 CANCEL: X

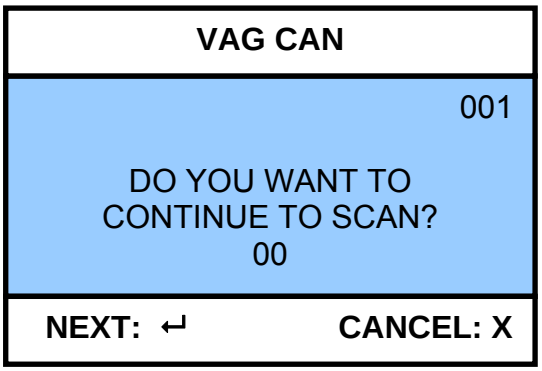
R. Place the blank 48 CAN transponder (correct manufacturer) into the AD900Pro reading area

S. Enter the 7 bytes of data using the AD900Pro keypad. Where the last byte is **XX** enter this as **00**.



T. The tester will automatically write this code to the transponder and then ask if you want to continue to scan. At this stage **DO NOT** press ENTER.

This screen indicates that **00** has been programmed as the 7th byte. If **ENTER** is pressed **01** will be programmed as the 7th byte etc.



U. Remove the transponder from the AD900Pro and place into a key (important: ensure it is put into a key).

V. Put the key into the ignition, but **DO NOT** turn the ignition on.

W. Check the **AUTHENTICATION** status on the key programming tool.

Status is **YES** - The key can then be programmed into the car as normal using the key programming tool.
Status is **NO** - Go to next step.

X. Place the key back into the AD900Pro reading area and press **ENTER**.

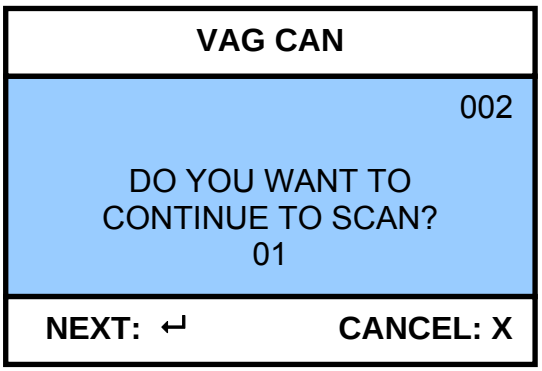
IMPORTANT: Only press **ENTER** once.

The tester will automatically write the next code to the transponder and then ask if you want to continue to scan.

At this stage **DO NOT** press ENTER.

This screen indicates that **01** has been programmed as the 7th byte. If **ENTER** is pressed **02** will be programmed as the 7th byte etc.

Note: The **01** will continue in increments of 1 from **00** to **FF** (total of 256 attempts) each time **ENTER** is pressed.



The number in the top right hand corner of the screen indicates the number of the programming attempt made ie 1 to 256.

Z. Remove the key from the AD900Pro and put the key into the ignition, but **DO NOT** turn the ignition on.
Check the **AUTHENTICATION** status on the key programming tool.

Status is **YES** - The key can then be programmed into the car as normal using the key programming tool.

Status is **NO** - Repeat steps X to Z.

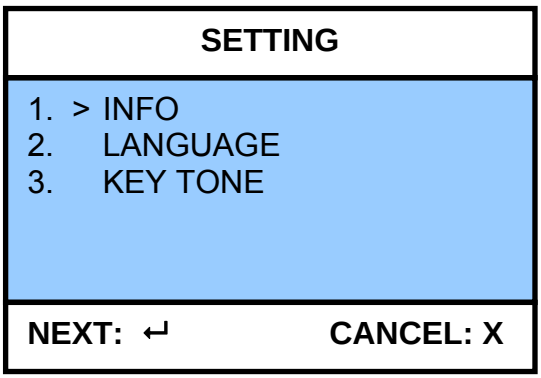
This will need to be repeated until the AUTHENTICATION is **YES**. The max number of attempts is up to 256 times, but one will be correct. The procedure takes a maximum of 20 minutes if all 256 attempts are required.

Once the **AUTHENTICATION STATUS** is **YES**, the key can be programmed into the car as normal using the key programming tool.

5. TEST

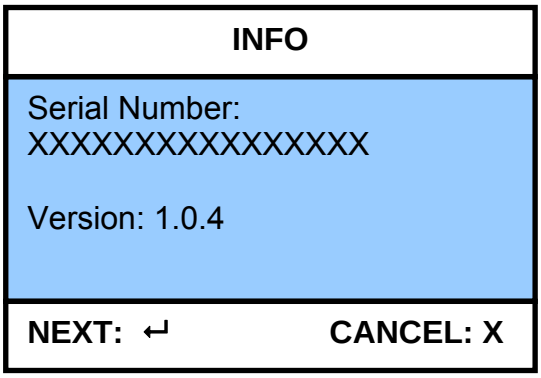
This function is not currently active.

6. SETTING



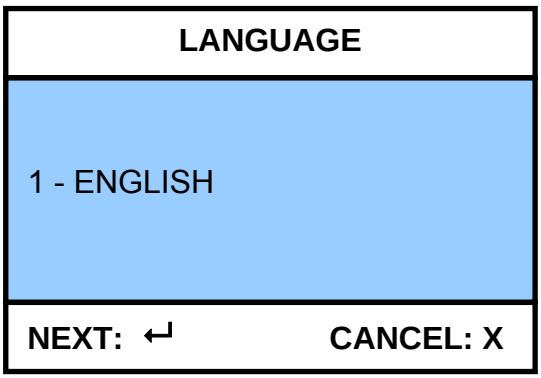
INFO

Shows the AD900Pro serial number & software version loaded on the unit



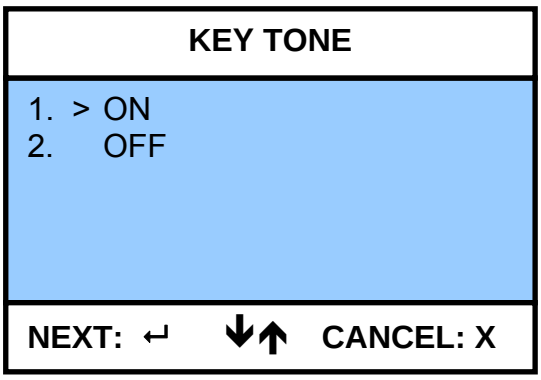
LANGUAGE

Shows the current language that is set. Press the ↓↑ to select a different language and press ↵ to confirm.



KEY TONE

Allows the key pad tone to be switched ON/ OFF.



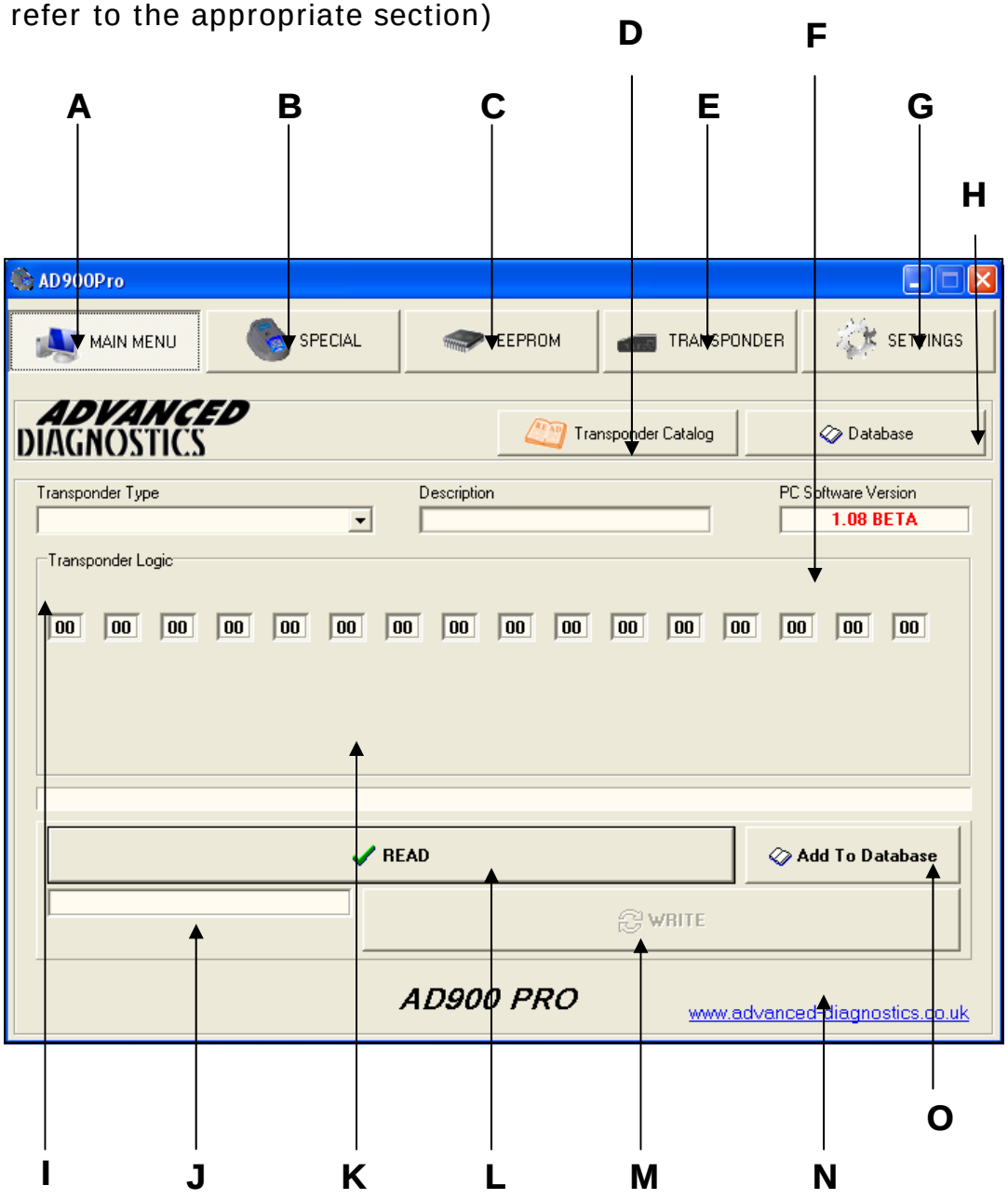
SECTION E

AD900Pro
PC SOFTWARE
GENERAL OPERATION

AD900Pro - PC SOFTWARE

SOFTWARE FEATURES

The following pages are a guide to using the AD900Pro in conjunction with the PC software program.
The same functions are also available using the AD900Pro as a stand alone unit (please refer to the appropriate section)



A.	Main Menu (Screen shown above)	I.	Transponder Type
B.	Special	J.	Special Instructions
C.	EEPROM	K.	Transponder Logic
D.	Transponder Catalogue	L.	READ button
E.	Transponder	M.	WRITE button
F.	PC Software Version	N.	Status bar
G.	Settings	O.	Add info to database
H.	Database		

AD900Pro - PC SOFTWARE

MAIN MENU

Displays information relating to transponders including:

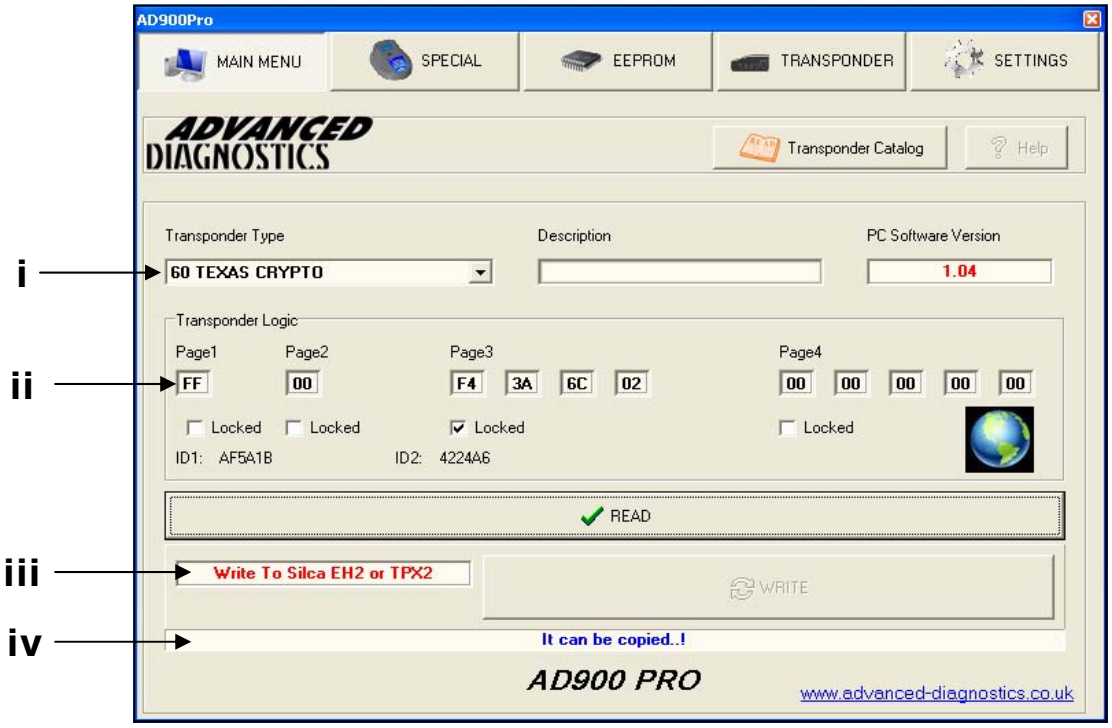
- Transponder logic
- Transponder type
- Some car brands
- If it is a crypto transponder
- If the transponder is locked/unlocked
- If the transponder can be copied or not

IDENTIFICATION

Procedure

A. Select **MAIN MENU** tab.
B. Place key into the reading area.
C. Click **READ**

Example of Identification screens



i. Transponder type.
ii. Transponder logic & locked/unlocked data.
iii Type of transponder to copy onto.
iv. Transponder can/can not be copied.

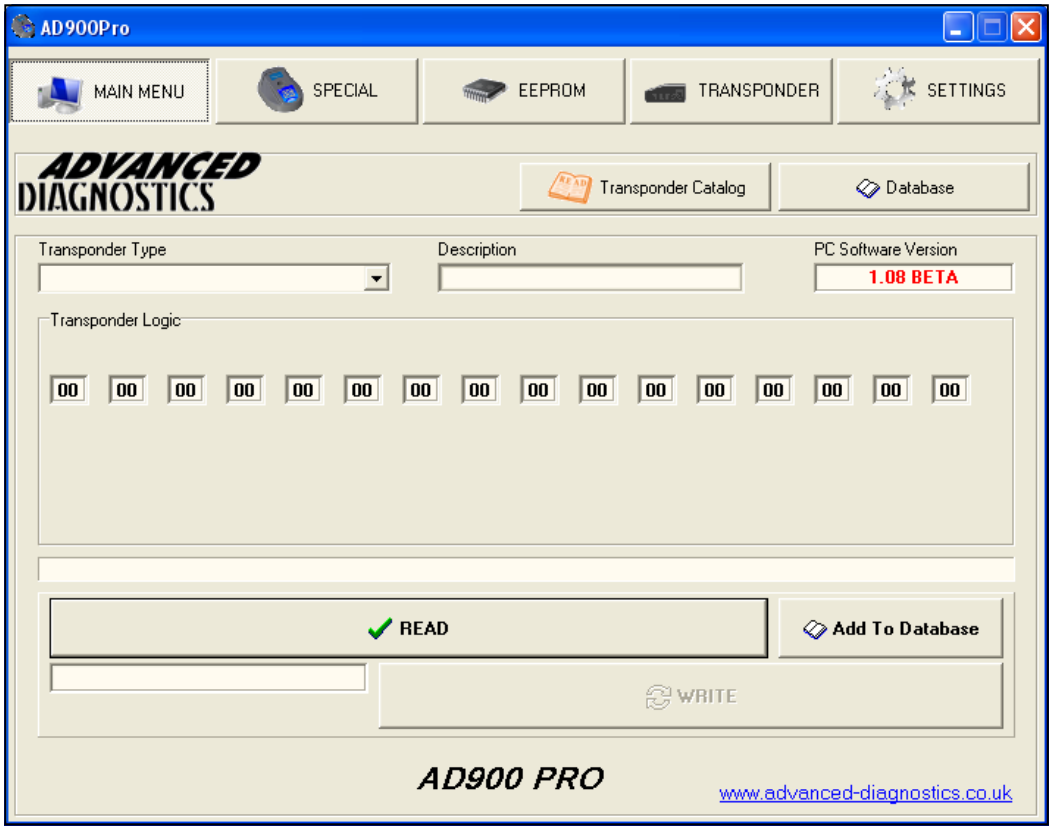
D. To read more keys, press **X** to return to main menu

AD900Pro - PC SOFTWARE

COPY

Copy allows many types of transponders to be copied to duplicate keys.
For a list of transponders that can be copied, refer to the **FEATURES** section of this manual.

Procedure For Copying 11,12,13,33 & T5 Fixed Code Transponders



Procedure

A. Select **MAIN MENU** tab.
B. Place key into the reading area.
C. Click **READ**

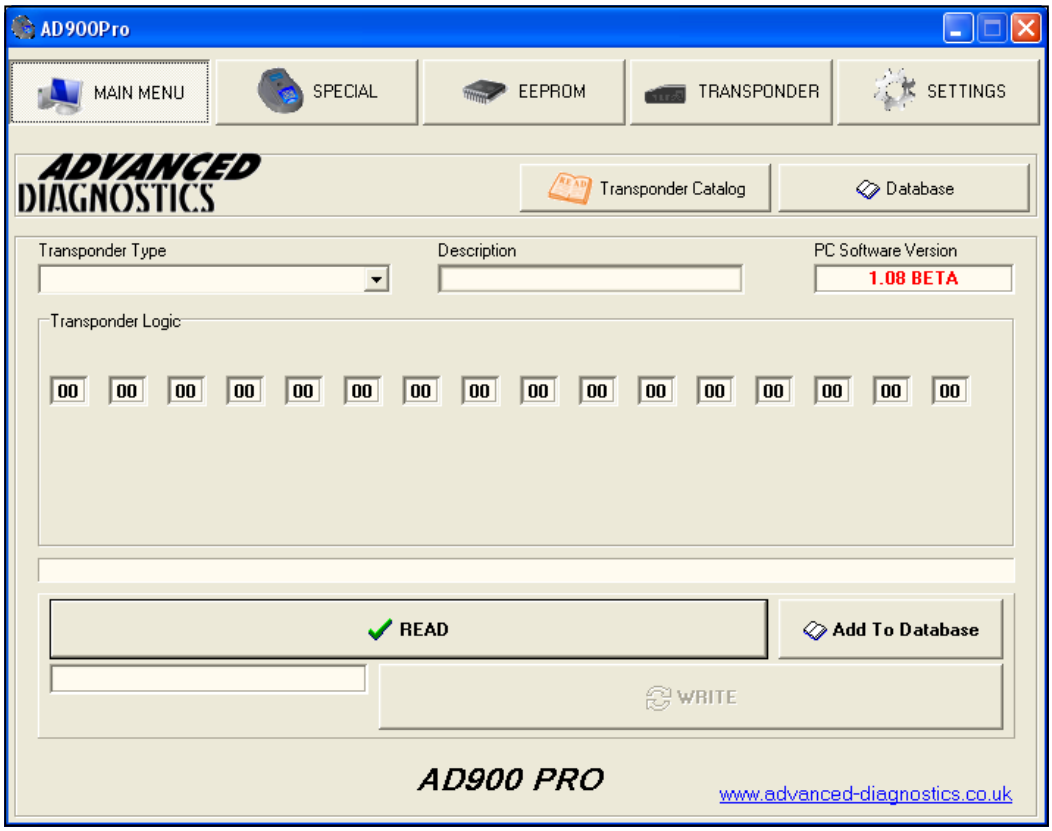
D. Transponder detail will be displayed
E. Remove key and insert blank (transponder to use is indicated)

F. Click **WRITE**

G. The status bar will indicate if copying was successful.

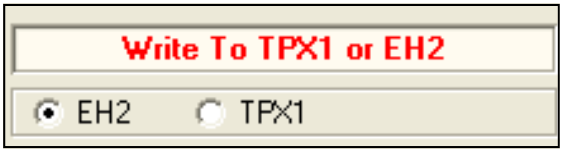
H. To copy more keys, repeat steps A to G.

Procedure for copying Texas 4C Fixed Code Transponder



A. Select **MAIN MENU** tab.
B. Place key into the reading area.
C. Click **READ**

D. Transponder detail will be displayed
E. Remove the key.
F. Insert blank key
G. Click either **EH2** or **TPX1** to select type of transponder to be copied onto.
Note: JMA TPX1 is an additional software module and will only be active if purchased.



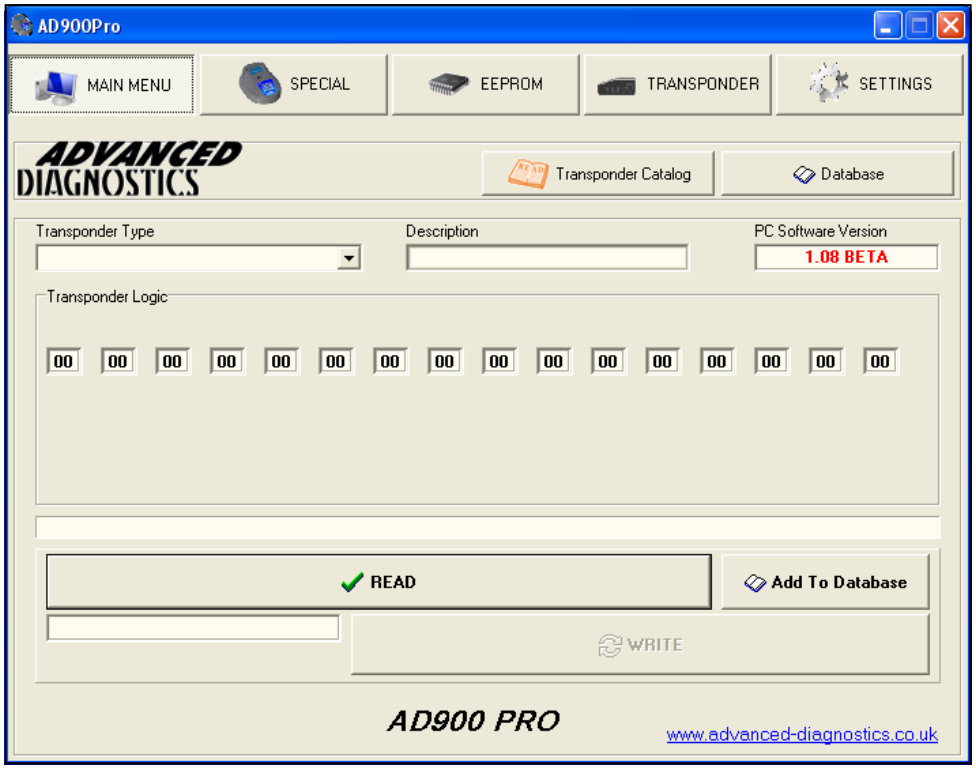
H. Click **WRITE**

I. The status bar will indicate if copying was successful.

J. To copy more keys, repeat steps **A to G.**

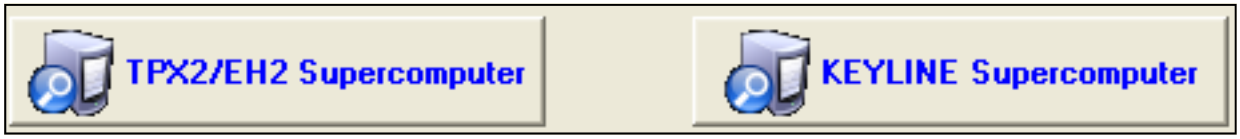
Procedure for copying Texas 4D Crypto Transponder

To copy this type of transponder, the PC software must be used as an internet connection is required. 4D transponders can be copied into either Silca EH2, JMA TPX2 or Keyline TK40 transponders.

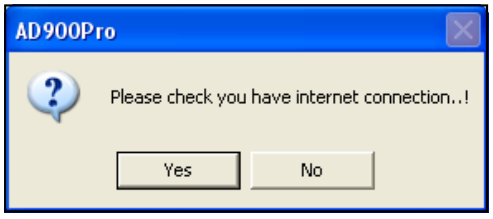


A. Select **MAIN MENU** tab.
B. Place key into the reading area.
C. Click **READ**

D. Transponder detail will be displayed
E. Click the appropriate button for the type of transponder being copied to.

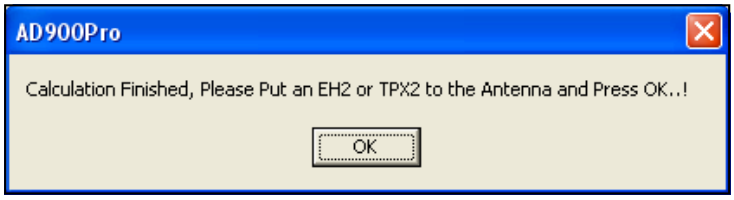


F. Click **YES** to confirm you have internet connection (can take 15 mins)



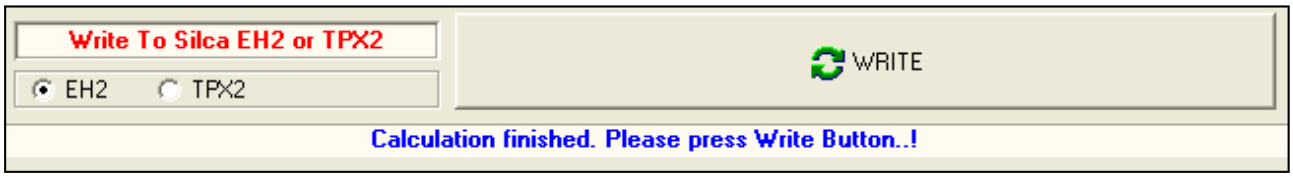
G. When the web calculation has finished one of the following dialog box will appear, click **OK**.

EH2 or TPX2 Selected

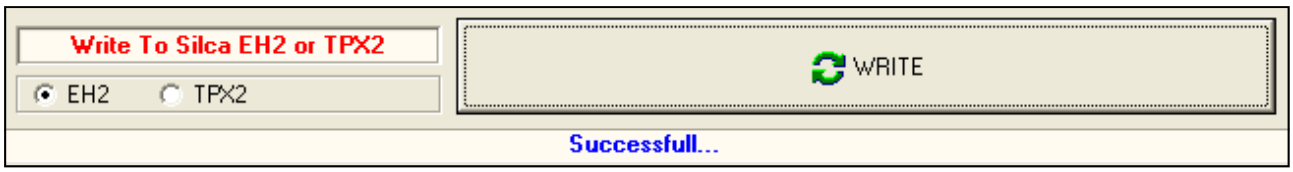


Note: If the calculation fails. You will be instructed to try again in approx 3 hours, by which time the code should be fixed (during a normal working week)

i) Remove the key that has just been read.
ii) Place either an **EH2** or **TPX1** transponder into the key reading area.
iii) Select the appropriate transponder type to copy onto.
iv) Next click **WRITE**.

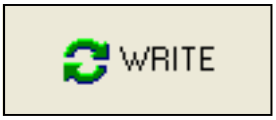


v) The status bar will indicate if the copying process was successful.



TK40 Selected

i) Remove the key that has just been read.
ii) Place a **TK40** transponder into the key reading area.
iii) Next click **WRITE**.



v) The status bar will indicate if the copying process was successful.

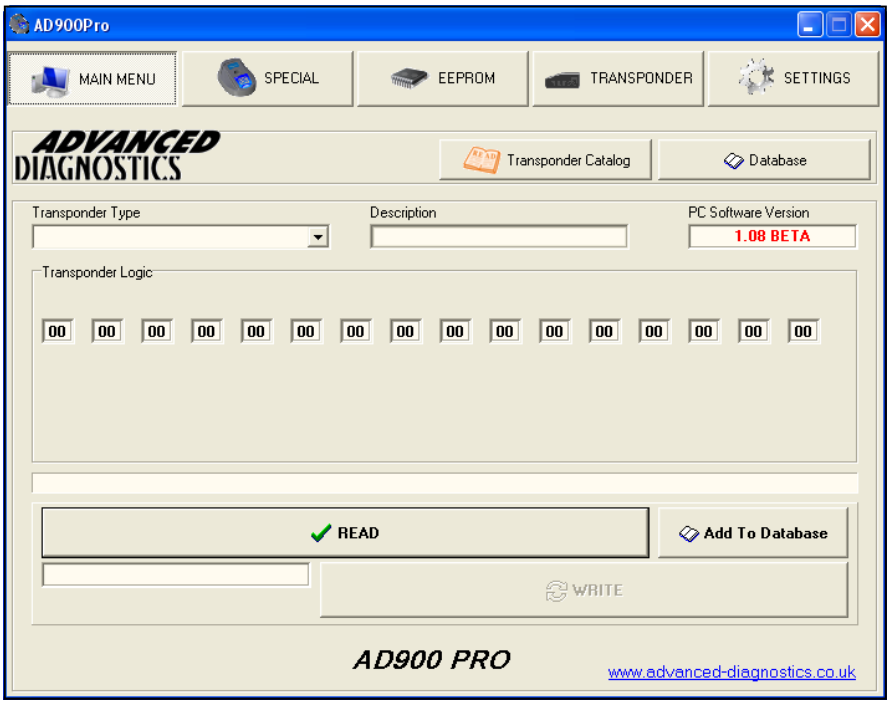
AD900Pro - PC SOFTWARE

D

Procedure for copying Philips ID46 Crypto 2 Transponder - TK60

To copy this type of transponder, the PC software must be used as an internet connection is required. ID46 transponders can be copied onto Keyline TK60 or JMA TPX3 transponders.

Note: The TK60 heads can be re-used 256 times. Unfortunately we can not read how many times a TK60 head has been used.
If, when reading the original key it shows the description as CDP mode then this key can't be cloned onto a TPX3 transponder. It must be cloned onto a TK60 head.



A. Select **MAIN MENU** tab.
B. Place key into the reading area.
C. Click **READ**
D. Transponder detail will be displayed
E. Remove the key that has just been read.
   ii) Place a **TK60** transponder into the key reading area.
   iii) Select TK60 transponder type
   iv) Next click **WRITE**.

F. The status bar will indicate if the copying process was successful

G. **IMPORTANT** - follow very carefully.

There are a few of procedures that can be tried for the next step as different ones will work for different manufacturers. Procedure 1 appears to be the most reliable. If the first procedure doesn't work, then try the second and then the third.

After 'sniffing' and the transponder is placed back in the AD900Pro, check the description

Step1; There isn't enough 'sniffed' data on the TK60.

Step2; There is enough 'sniffed' data on TK60 to enable the calculation

'Sniffing' Procedure 1

- **The TK60 must not have been programmed > 256 times**
- **When inserting the TK60 into the ignition, assemble the TK60 and horse shoe.**

1. Cut the key blade to the vehicle.
2. Take the TK60 and cut key to the car.
3. Insert the TK60 assembly and turn the ignition **ON** for 5 seconds.
4. Turn the ignition **OFF** and wait for 20 seconds.
5. Turn the ignition **ON** for 5 seconds.
6. Turn the ignition **OFF** and wait for 20 seconds.
7. Turn the ignition **ON** for 5 seconds.
8. Turn the ignition **OFF** and wait for 20 seconds.

'Sniffing' Procedure 2

- **The TK60 must not have been programmed > 256 times**
- **When inserting the TK60 into the ignition, insert the blade / horse shoe with the TK60 head held next to the horse shoe, as close to the actual ignition barrel / antenna as possible.**

1. Cut the TK60 key blade to the vehicle.
2. Take the TK60 head and cut key to the car.
3. Insert the original key & turn the ignition **ON** for 5 seconds.
4. Turn the ignition **OFF.**
5. Remove the original key from the ignition and wait for 20 seconds.
6. Insert the TK60 blade with the TK60 head held next to the horse shoe and turn the ignition **ON** for 5 seconds.
7. Turn the ignition **OFF.**
8. Remove the TK60 from the ignition & wait for 20 seconds.
9. Insert the original key & turn the ignition **ON** for 5 seconds.
10. Turn the ignition **OFF.**
11. Remove the original key from the ignition and wait for 20 seconds.

12. Insert the TK60 blade with the TK60 head held next to the horse shoe and turn the ignition **ON** for 5 seconds.
13. Turn the ignition **OFF.**
14. Remove the TK60 from the ignition & wait for 20 seconds.

15. Insert the original key & turn the ignition **ON** for 5 seconds.
16. Turn the ignition **OFF.**
17. Remove the original key from the ignition and wait for 20 seconds.

18. Insert the TK60 blade with the TK60 head held next to the horse shoe and turn the ignition **ON** for 5 seconds.
19. Turn the ignition **OFF.**
20. Remove the TK60 from the ignition.

'Sniffing' Procedure 3

- **The TK60 must not have been programmed > 256 times**
- **When inserting the TK60 into the ignition, insert the blade/ horse shoe with the TK60 head held next to the horse shoe, as close to the actual ignition barrel/antenna as possible.**

1. Cut the key blade to the vehicle.
2. Take the TK60 and cut key to the car.

3. Insert the TK60 blade with the TK60 head held next to the horse shoe and turn the ignition **ON** for 5 seconds.
4. Turn the ignition **OFF** and wait for 20 seconds.

5. Turn the ignition **ON** for 5 seconds.
6. Turn the ignition **OFF** and wait for 20 seconds.

7. Turn the ignition **ON** for 5 seconds.
8. Turn the ignition **OFF** and wait for 20 seconds

9. Turn the ignition **ON** for 5 seconds.
10. Turn the ignition **OFF** and wait for 20 seconds.

11. Turn the ignition **ON** for 5 seconds.
12. Turn the ignition **OFF** and wait for 20 seconds

Note

If this procedure is not followed the vehicle ECU will be locked. To unlock the ECU, the vehicle battery must be disconnected for at least 20 minutes.

H. Now take the TK60 and insert the it into the reading area of the AD900Pro.

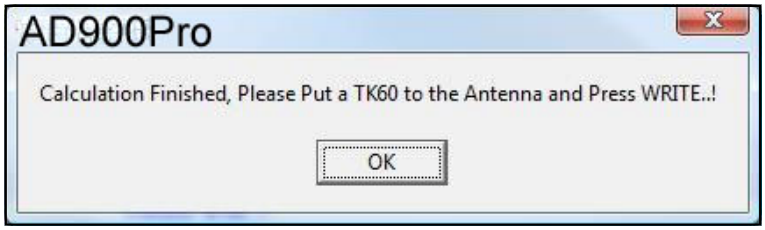
I. Click **READ**

J. Click the **TK60 Supercomputer** button.

K.

Insert the original key that you are copying back into the reading area and click **OK.**

L.



Remove the original key, place the TK60 into the reading area and Click **OK.**

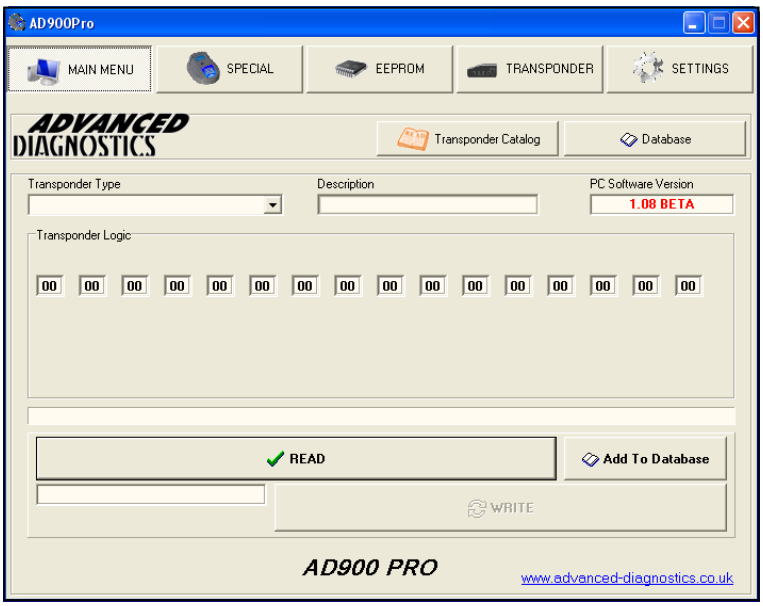
M. Next click **WRITE**.

N. The status bar will indicate if the copying process was successful.

Procedure for copying Philips ID46 Crypto 2 Transponder - TPX3

To copy this type of transponder, the PC software must be used as an internet connection is required. ID46 transponders can be copied onto Keyline TK60 or JMA TPX3 transponders.

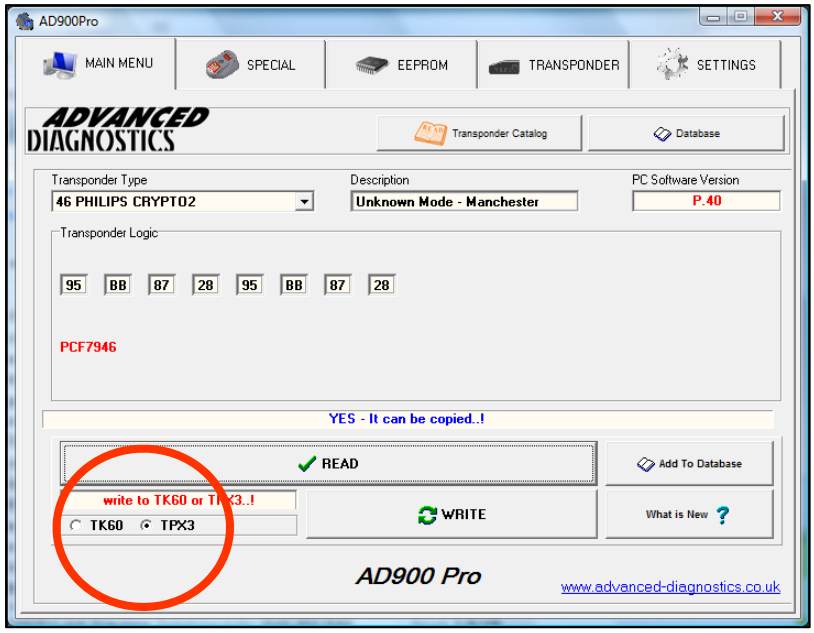
Note: The TPX3 transponder can be used as many times as required.
If, when reading the original key it shows the description as CDP mode then this key can't be cloned onto a TPX3 transponder. It must be cloned onto a TK60 head.



A. Select **MAIN MENU** tab.
B. Place key into the reading area.
C. Click **READ**
D. Transponder detail will be displayed
E. Remove the key that has just been read.

ii) Place a **TPX3** transponder into the key reading area.

iii) Select **TPX3** transponder type.



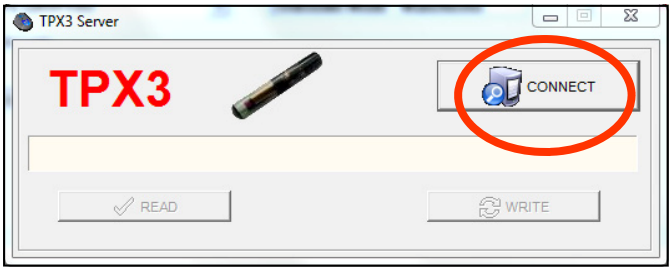
F. Click **WRITE**.

AD900Pro - PC SOFTWARE

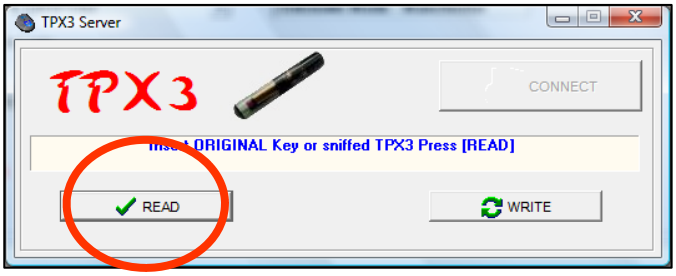
D

G. Click **CONNECT**

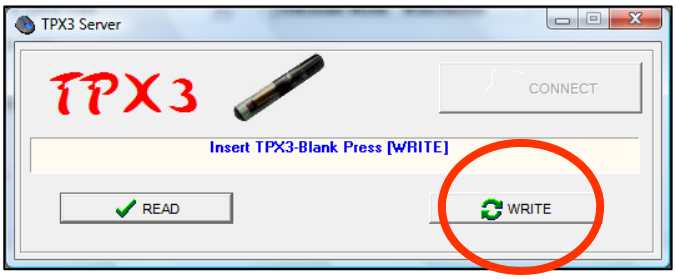
The **READ** & **WRITE** buttons will then become active.



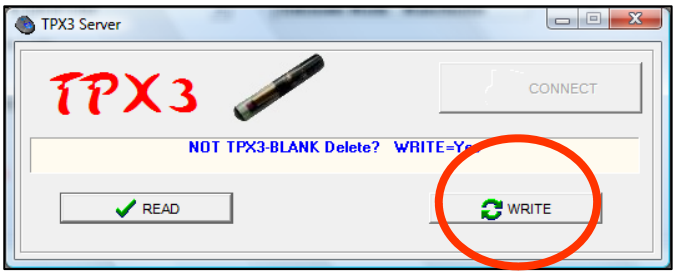
H. Insert original key and click **READ**



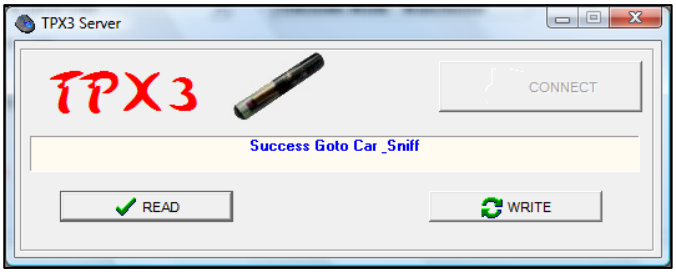
I. Insert a blank TPX3 and click **WRITE**



J. If TPX3 is not blank, you will be asked if you want to write. Click **WRITE**



K. If successful, you now go to the vehicle to obtain (Sniff) the required data.



L. **IMPORTANT** - follow these steps very carefully.

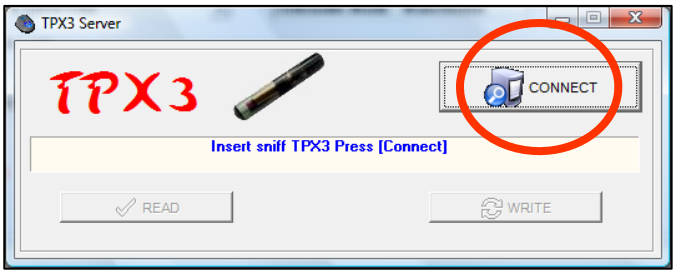
- **The TPX3 must be a blank transponder.**
- **Tape the TPX3 to the head of the original key.**

‘Sniffing’ Procedure

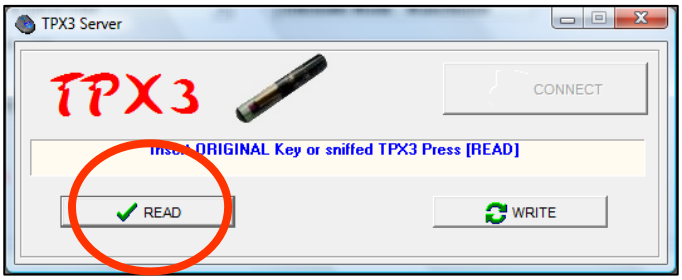
i) Take the Original key and taped TPX3 transponder to the car.
ii) Insert the original key/TPX3 assembly & turn the ignition **ON** for 5 seconds.
iii) Turn the ignition **OFF** and remove the key from the ignition.
iv) Wait 5 seconds.
v) Repeat steps 2 - 4, four times.

Note
If this procedure is not followed the vehicle ECU will be locked. To unlock the ECU, the vehicle battery must be disconnected for at least 20 minutes.

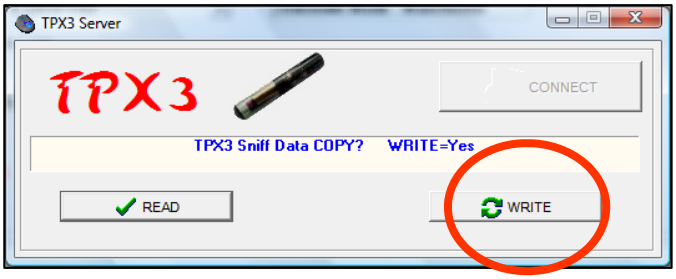
M. Go back to the AD900Pro PC software and click **CONNECT**



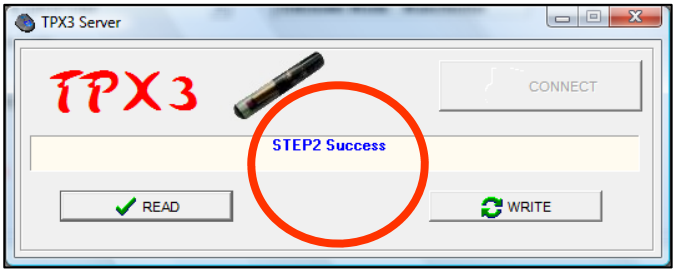
N. Now take the ‘sniffed’ TPX3 and insert the it into the reading area of the AD900Pro and click **READ**



O. Keep the TPX3 in the reading area and click **WRITE**



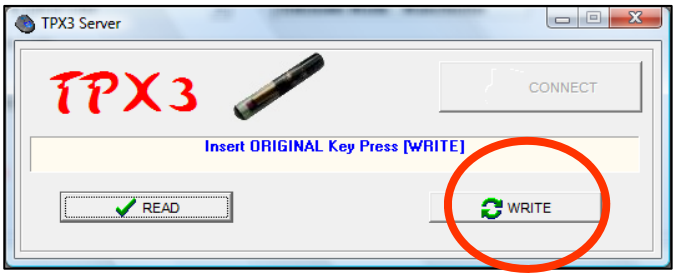
P. If OK, the status bar will indicate successful.



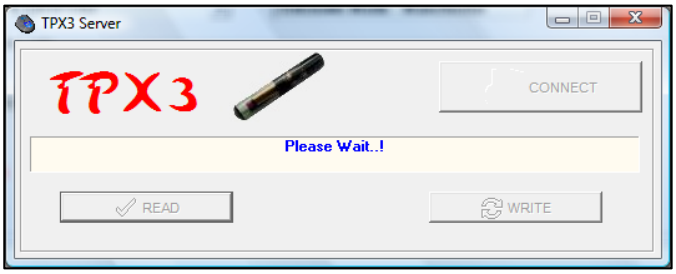
AD900Pro - PC SOFTWARE

D

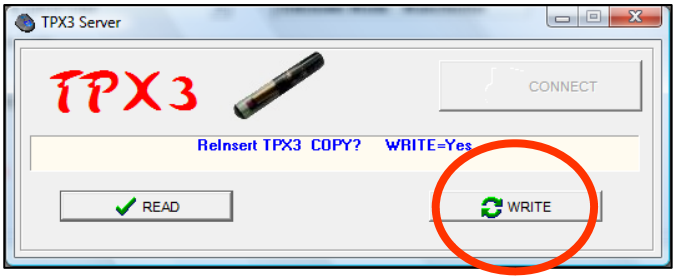
Q. Now take the 'original key and insert the it into the reading area of the AD900Pro and click **WRITE**



R. Wait

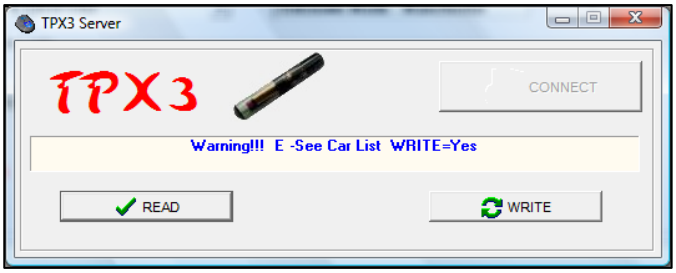


S. Insert the 'sniffed' TPX3 into the reading area of the AD900Pro and click **WRITE**

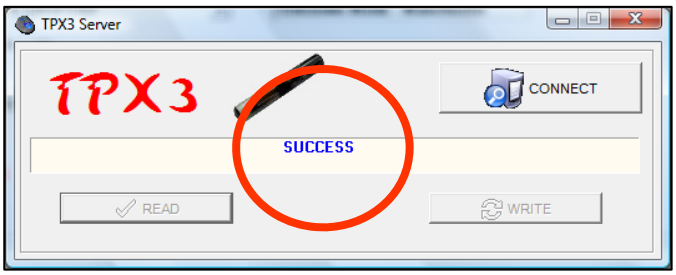


T. Check this vehicle is compatible with TPX3 and click **WRITE**

Note: some vehicles TPX3 will not work with. This is a problem with the JMA TPX3 not the AD900Pro



U. When finished SUCCESS will be indicated.



NOTE

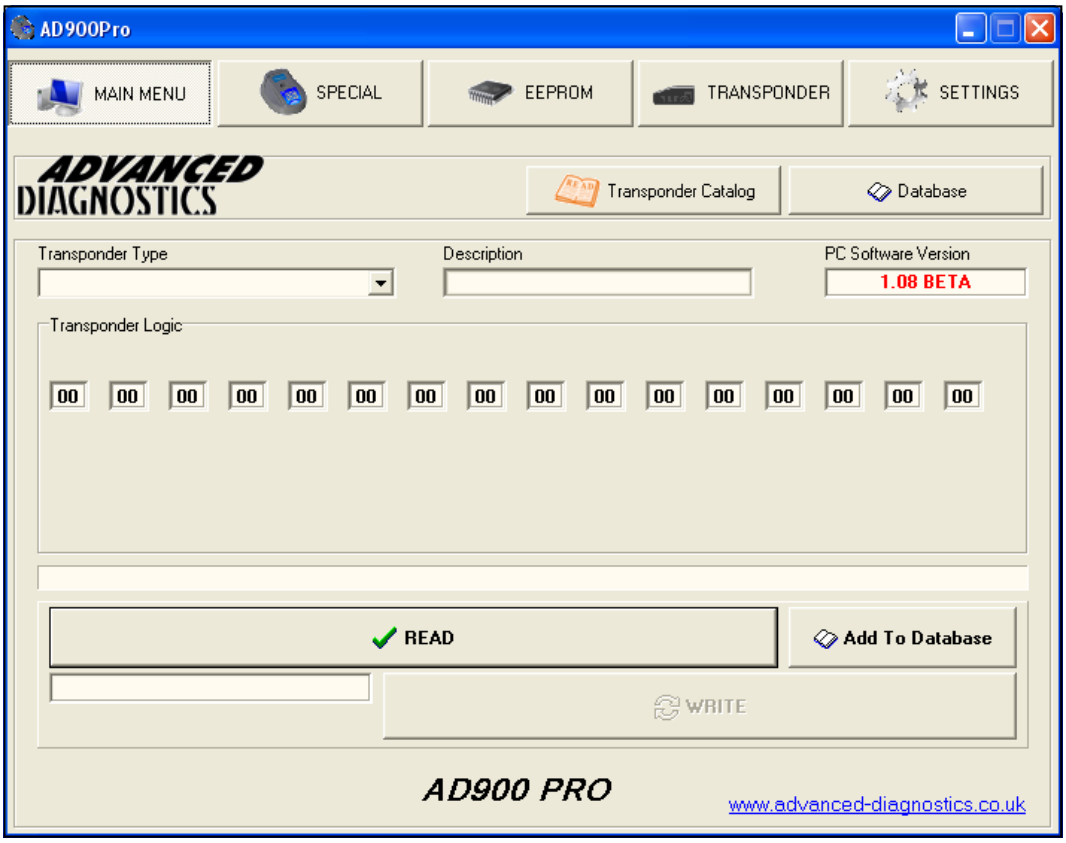
After 'sniffing' and the transponder is placed back in the AD900Pro, check the description

Step1; There isn't enough 'sniffed' data on the TK60.

Step2; There is enough 'sniffed' data on TK60 to enable the calculation

AD900Pro - PC SOFTWARE

Procedure for copying Philips 41,42,44 & 45 Crypto Transponder



Procedure

A. Select **MAIN MENU** tab.

B. Place key into the reading area.

C. Click **READ**

D. Transponder detail will be displayed

E. Remove key and insert blank (transponder to use is indicated)

F. Click **WRITE**

G. The status bar will indicate if copying was successful.

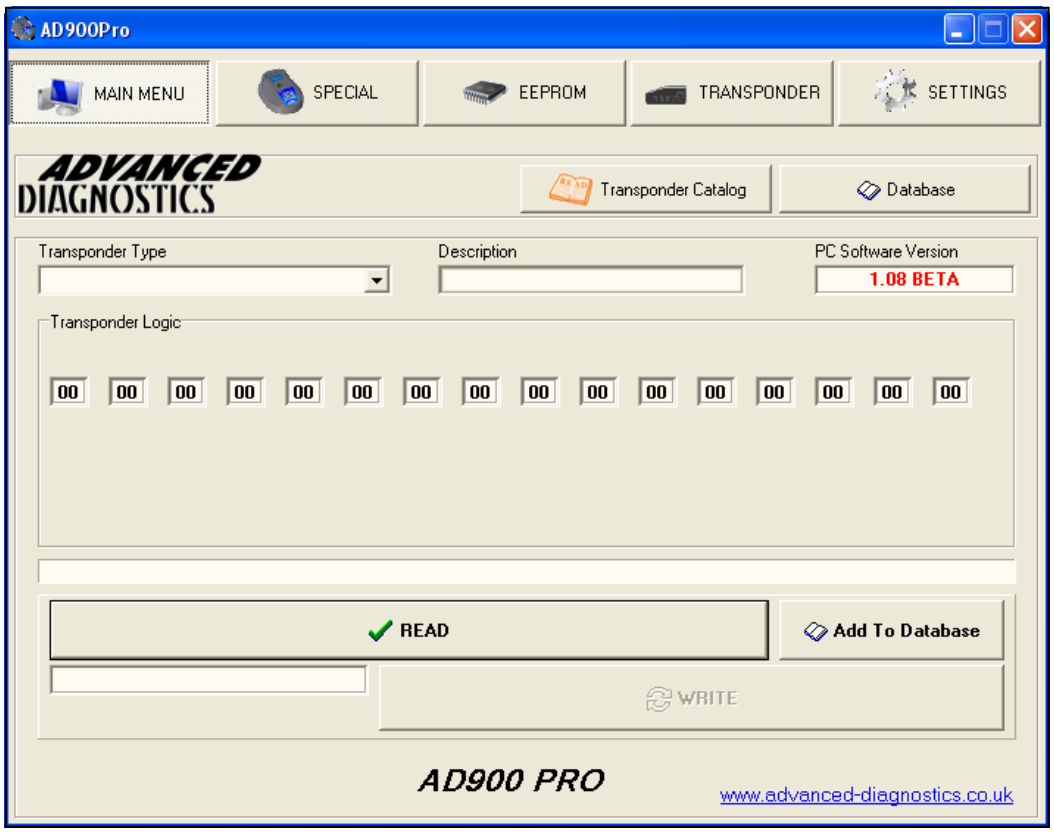
H. To copy more keys, repeat steps **A to G**.

AD900Pro - PC SOFTWARE

WRITE CODE

Allows transponder logic to be written onto a blank transponder

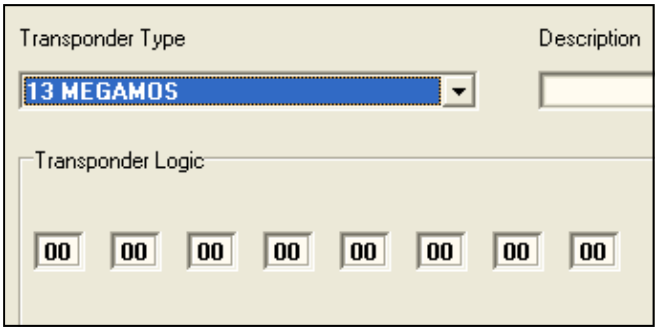
Procedure For Writing Logic Onto A T5 Transponder



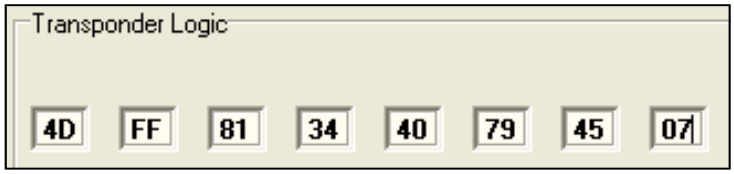
Procedure

A. Select **MAIN MENU** tab.

B. Select transponder type that you wish to write onto a blank transponder.



C. Enter transponder logic.
Note: The logic that is on the transponder is either 8,16 or 32 digits. The number of digits shown on the display corresponds to the amount of digits that need to be entered.



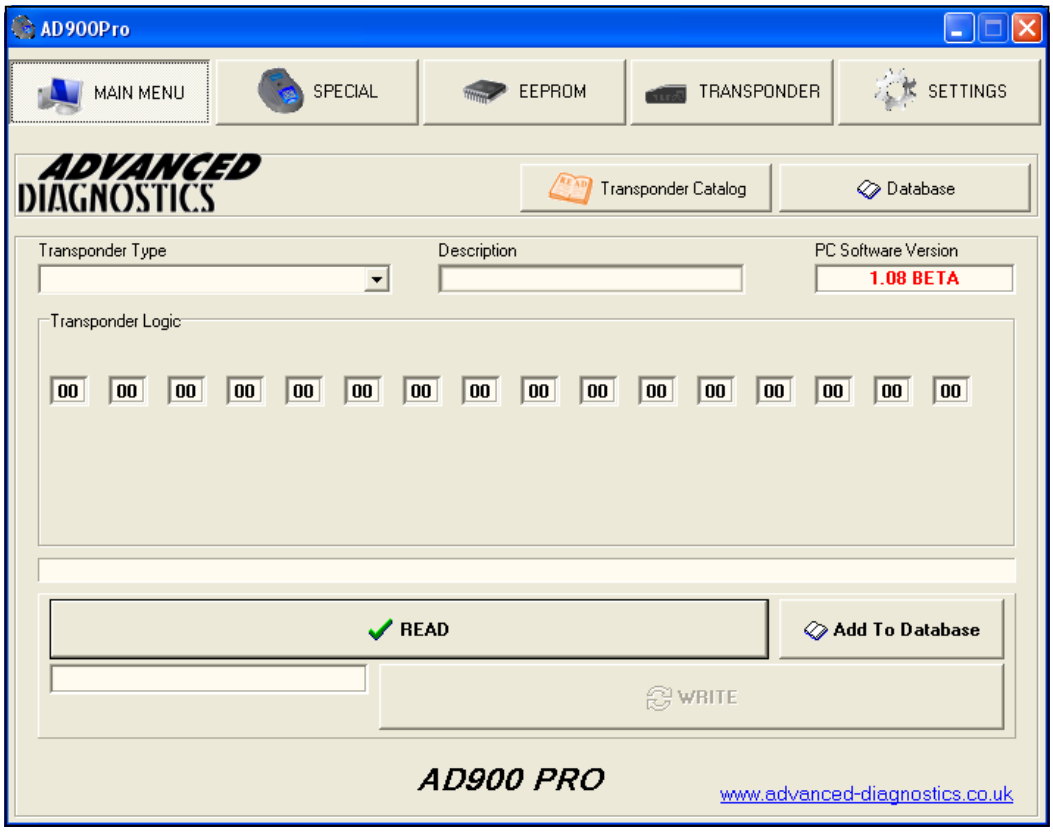
D. Place blank key into the reading area.

E. Click **WRITE.**

F. The status bar will indicate if copying was successful.

G. To write more logic, repeat steps **A to F.**

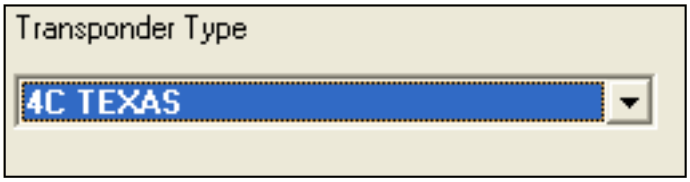
Procedure For Writing Texas 4C Logic Onto A Silca EH2 or JMA TPX1 Transponder



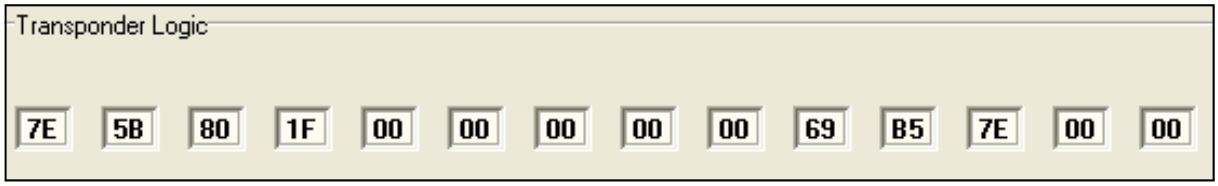
Procedure

A. Select **MAIN MENU** tab.

B. Select transponder type (4C) that you wish to write onto a blank transponder.

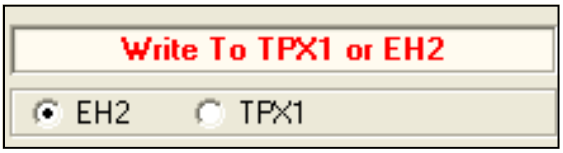


C. Enter transponder logic.



D. Insert blank key

E. Click either **EH2** or **TPX1** to select type of transponder to be copied onto.
Note: JMA TPX1 is an additional software module and will only be active if purchased.



F. Click **WRITE**

G. The status bar will indicate if copying was successful.

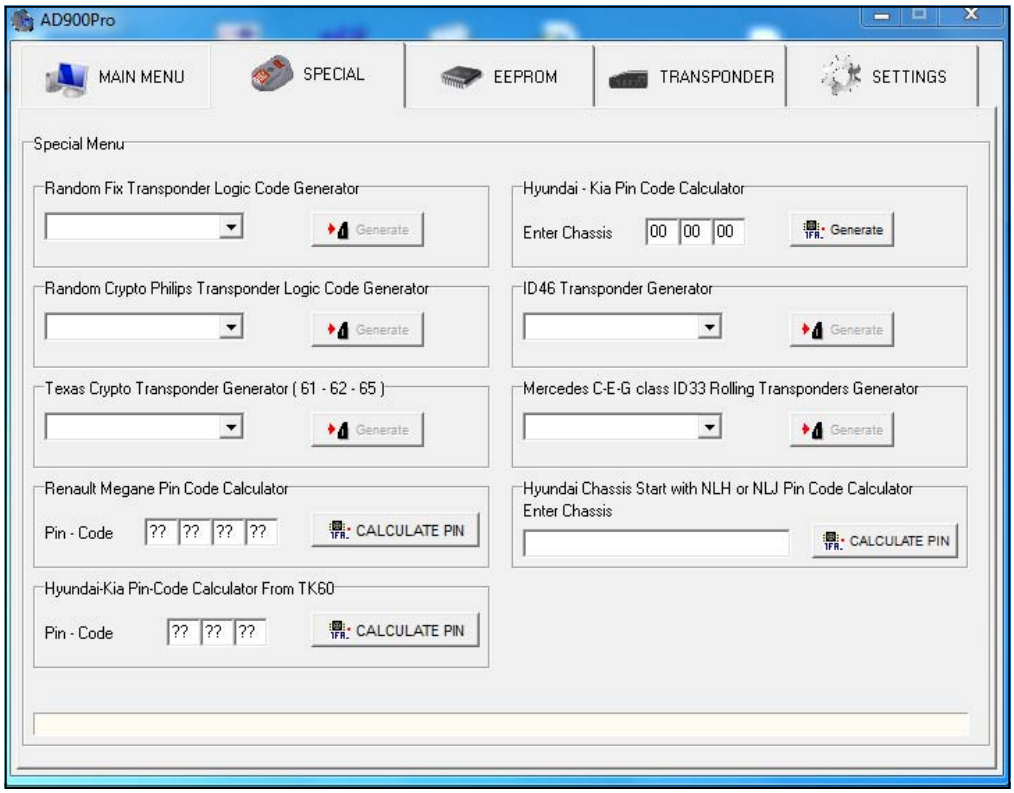
H. To copy more keys, repeat steps **A to G.**

AD900Pro - PC SOFTWARE

SPECIAL FUNCTION

Provides the ability to access information for many transponders (Refer to the **FEATURES** Section):

- Pin code calculating
- Unlock 48
- Generate random code



Procedure

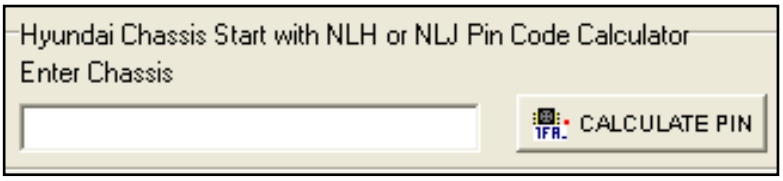
A. Select **SPECIAL** tab.
B. Select appropriate function.

HYUNDAI & KIA PIN CODE CALCULATOR

Hyundai manufactured in Turkey NLH or NLJ chassis

Enter last 6 digits of the chassis number and click **CALCULATE PIN**

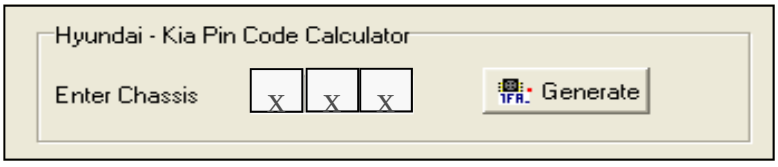
The 6 digit Pin code will be displayed.



Pre 2007 Hyundai & Kia

Enter last 6 digits of the chassis number and click **CALCULATE PIN**

The 6 digit Pin code will be displayed.

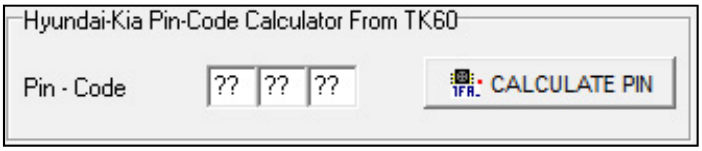


AD900Pro - PC SOFTWARE

Hyundai & Kia that use ID46 Transponder

For this function you will require both the following software on your tester.
ADS917--Copying ID46 (TK60)
ADS919--Hyundai Made in Turkey Pin-Code

Firstly, the transponder must be cloned using the normal ID46 procedure onto a TK60 head.

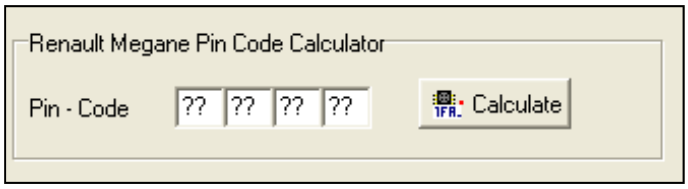


Then place the TK60 into the reading area of the AD900Pro and press **CALCULATE PIN**

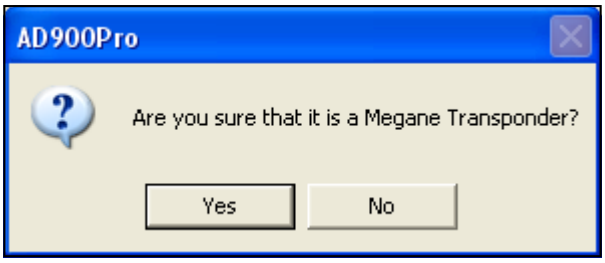
RENAULT PIN CODE CALCULATOR (8 Digit - Texas Crypto ID60 & ID64)

Megane-Scenic 1999 (ID64)
Megane-Scenic 2000 – 2003 (ID 60)

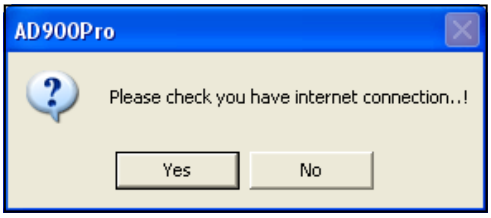
1. Put the key into the key reading area and press the **CALCULATE** button



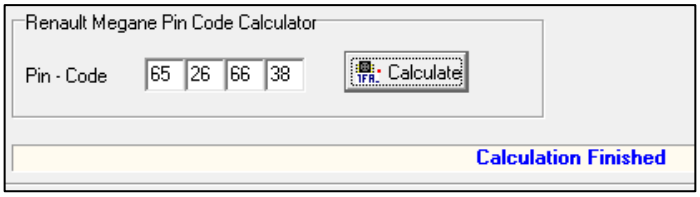
2. Confirm that a correct transponder has been inserted.



3. Confirm that you have an internet connection

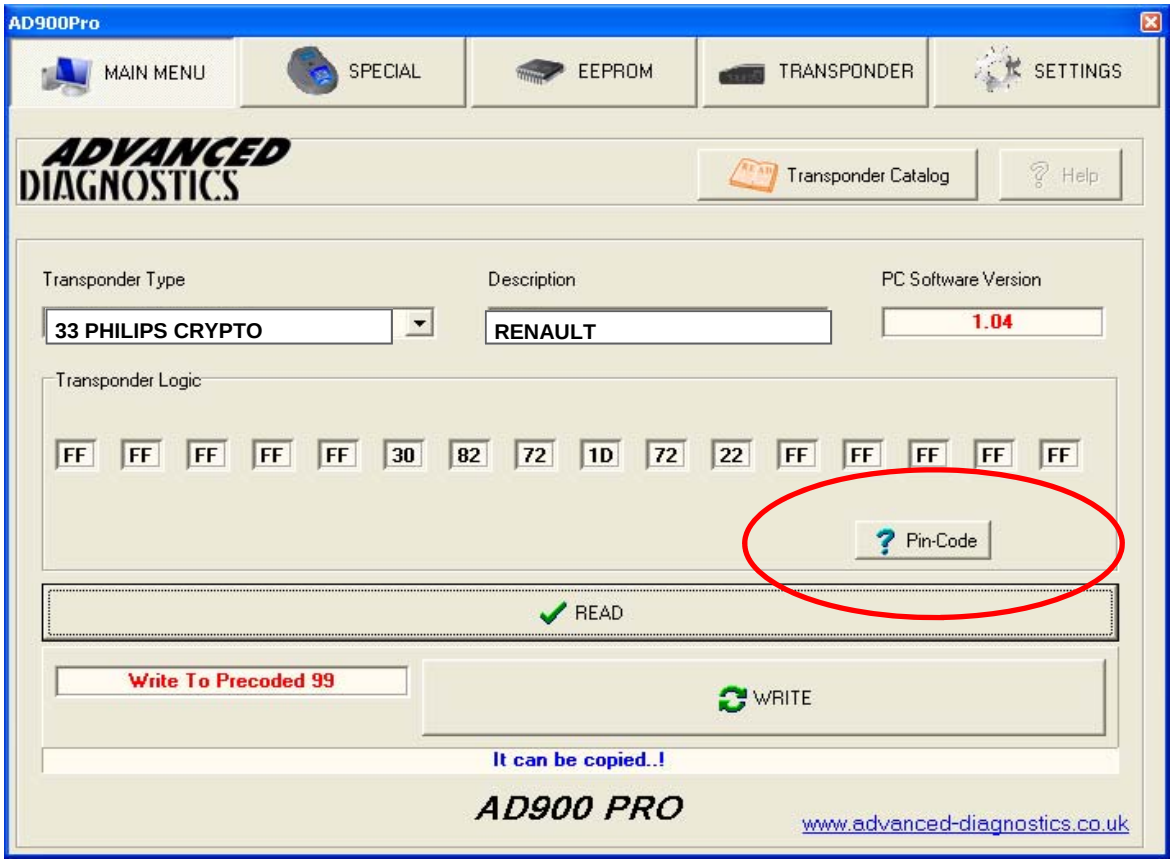


4. It takes about 30 sec. to calculate the pin-code



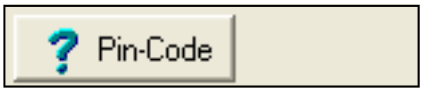
33 RENAULT PIN

A. Place key into reading area and click **READ**.

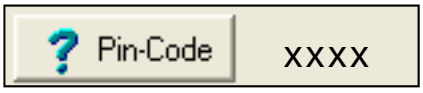


B. A **PIN CODE** button will appear.

C. Click **PIN CODE**

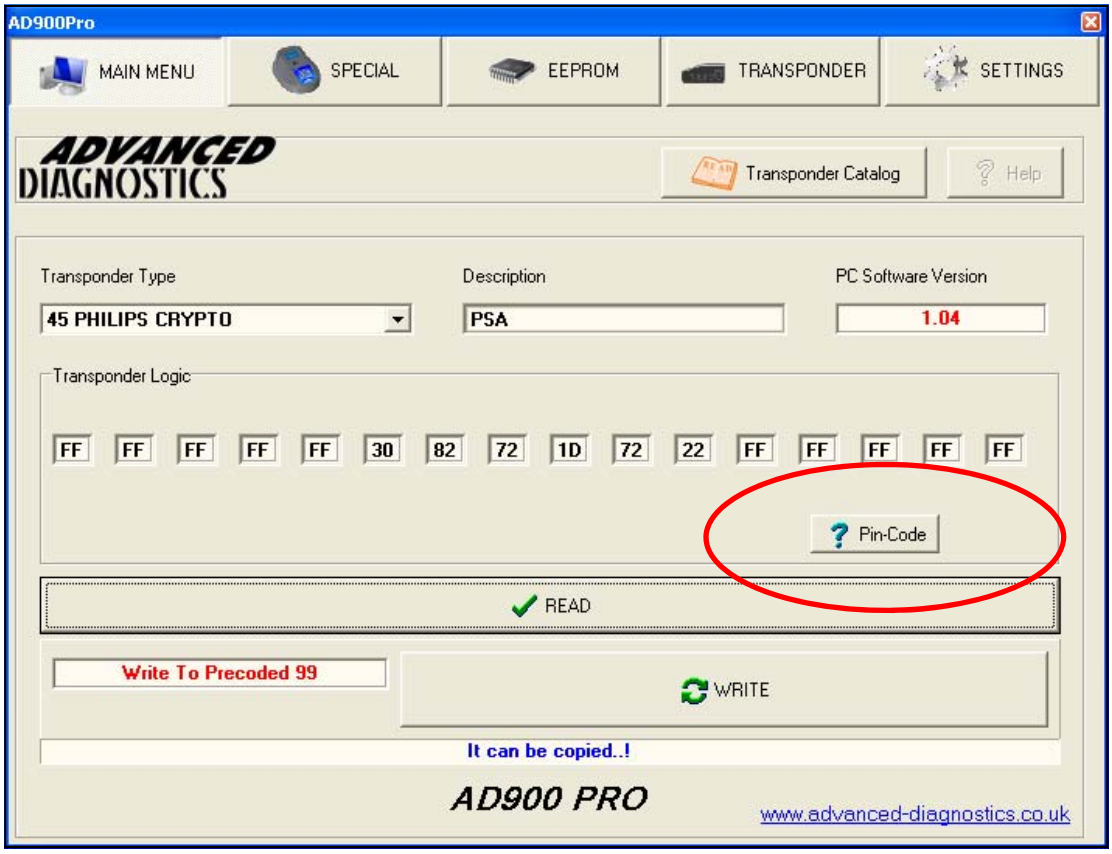


D. The pin code will be displayed.

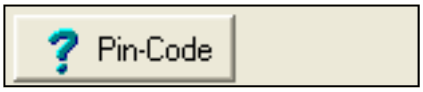


45 PSA PIN

A. Place key into reading area and click **READ**.



B. A **PIN CODE** button will appear.



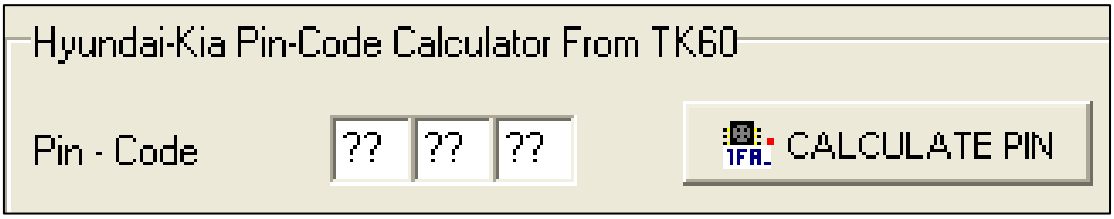
C. Click **PIN CODE**

D. The pin code will be displayed.

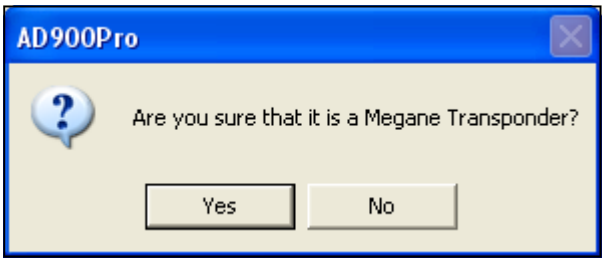
HYUNDAI / KIA PIN CODE CALCULATOR FROM TK60

Once a TK60 has been cloned, the pin code can be read from the TK60 head. This will then allow a transponder (less expensive than a TK60) to be programmed into the vehicle using a Pro key programmer.

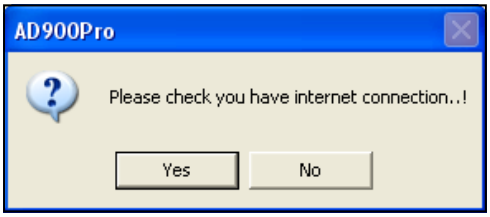
1. Put the key into the key reading area and press the **CALCULATE PIN** button



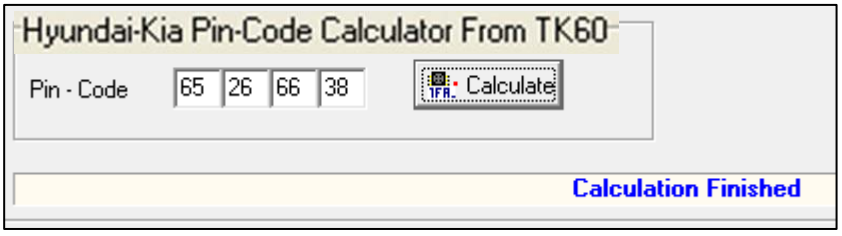
2. Confirm that a correct transponder has been inserted.



3. Confirm that you have an internet connection



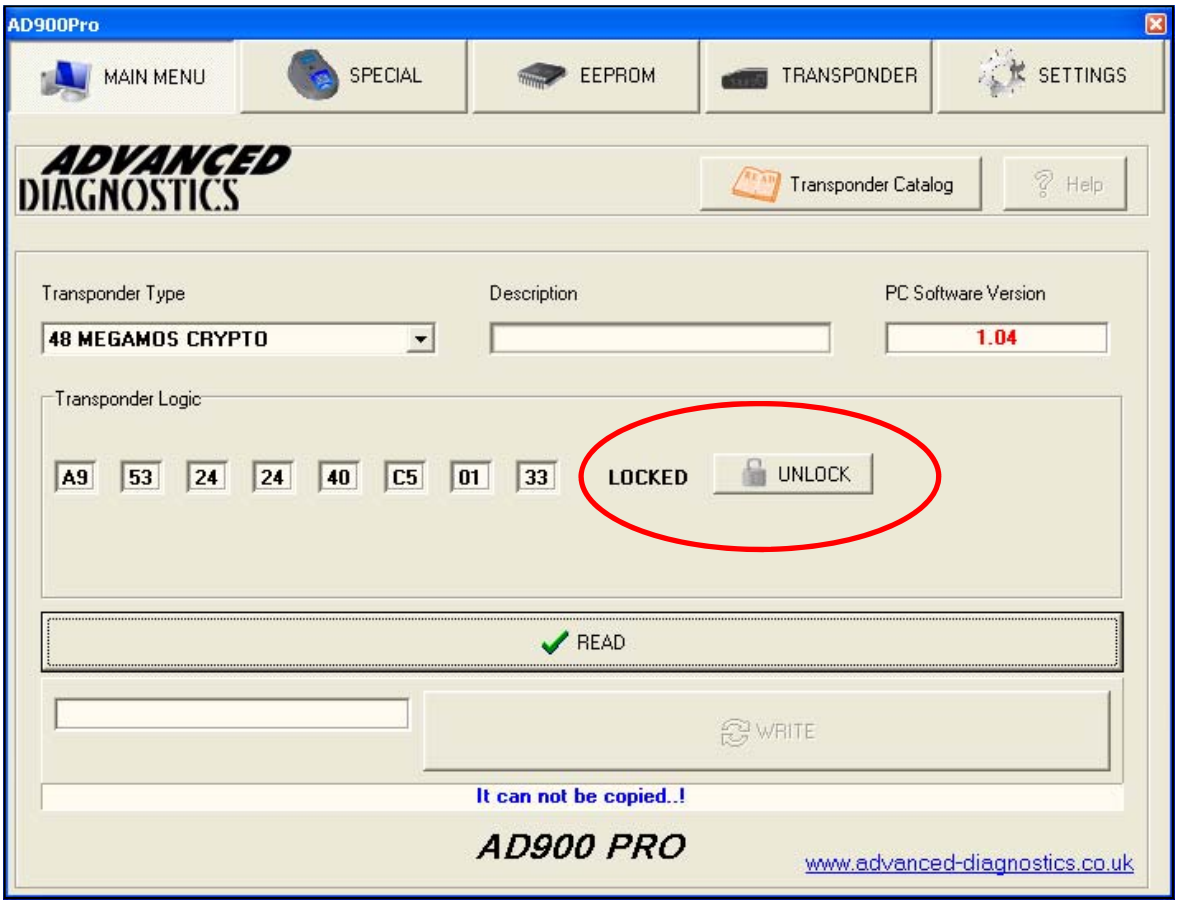
4. It takes about 30 sec. to calculate the pin-code



48 UNLOCK

Allows approx 75% of ID48 (T6) VAG transponders to be unlocked and re-used.

A. Place key into reading area and click **READ**.



B. If the transponder is Locked it will be indicated and an **UNLOCK** button will appear.

C. Click **UNLOCK**

D. The status bar will confirm if the transponder was unlocked.

RANDOM FIX CODE LOGIC GENERATOR

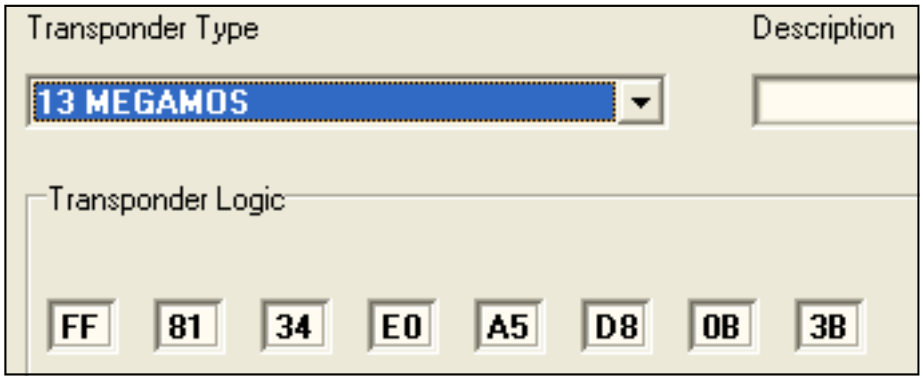
Generates logic for transponders that can be programmed onto a T5 or Philips ID33 transponder.

Procedure

A. Select type of transponder logic that you requite code generating for.

B. Click **GENERATE**

C. The transponder logic will be displayed in the **MAIN MENU** page



D. The type of transponder to be programmed will be indicated.

E. Place blank key into the reading area.

F. Click **WRITE**

G. The status bar will indicate if copying was successful.

RANDOM CRYPTO PHILIPS TRANSPONDER LOGIC CODE GENERATOR

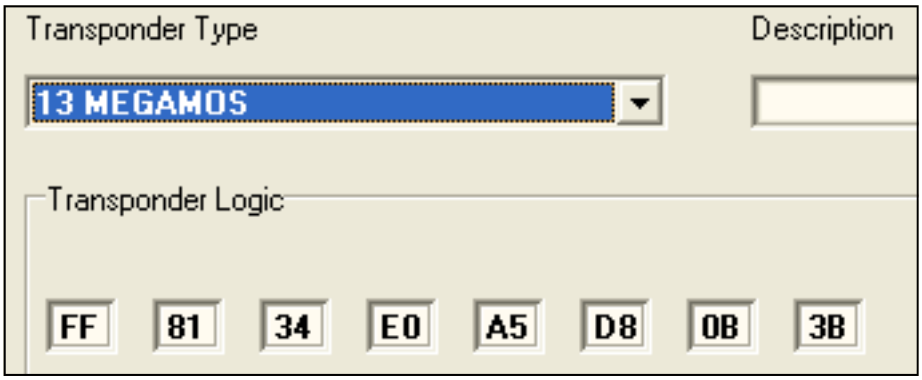
Generates logic for Crypto transponders.

Procedure

A. Select type of transponder logic that you requite code generating for.

B. Click **GENERATE**

C. The transponder logic will be displayed on the **MAIN MENU** page.



D. The type of transponder to be programmed will be indicated.

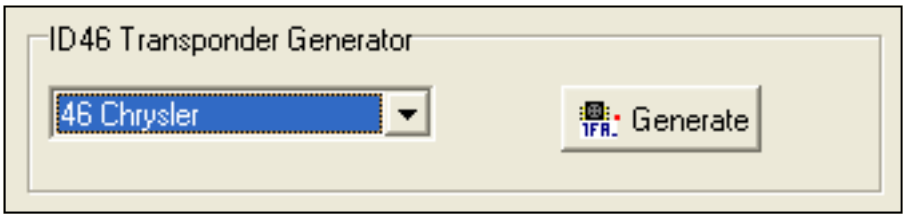
E. Place blank key into the reading area.

F. Click **WRITE**

G. The status bar will indicate if copying was successful.

ID46 TRANSPONDER GENERATOR

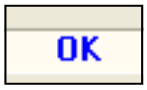
Generates logic for blank 46 transponders so they can be programmed used for Chrysler, Jeep, Renault & Mitsubishi.



Procedure

A. Select type of transponder logic that you requite code generating for.
B. Insert a blank ID46 transponder into the reading area.
C. Click **GENERATE**

D. The status bar will indicate if the transponder has been programmed with the logic.

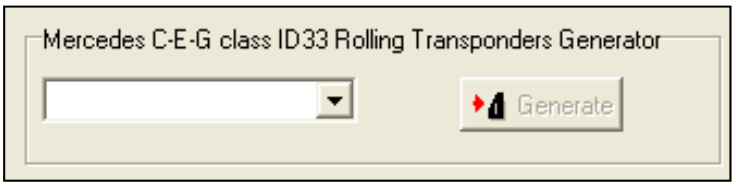


E. The transponder can now be programmed into a vehicle.

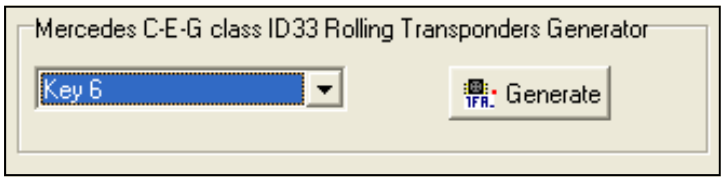
MERCEDES CEG GLASS ID33 ROLLING TRANSPONDER GENERATOR

Generates logic for early Mercedes.
Mercedes ID33 transponder is Rolling transponder and it is not possible to copy a Rolling transponder.
However, this facility allows you to generate ID33 transponder logic for Mercedes and produce a transponder that will start the car directly.
It means you can generate a transponder for Mercedes even if the customer has lost the keys.

Procedure



A. Select either slot 6,7 or 8 to program a key into.



B. Place a special transponder (AKTP30) into the reading area.

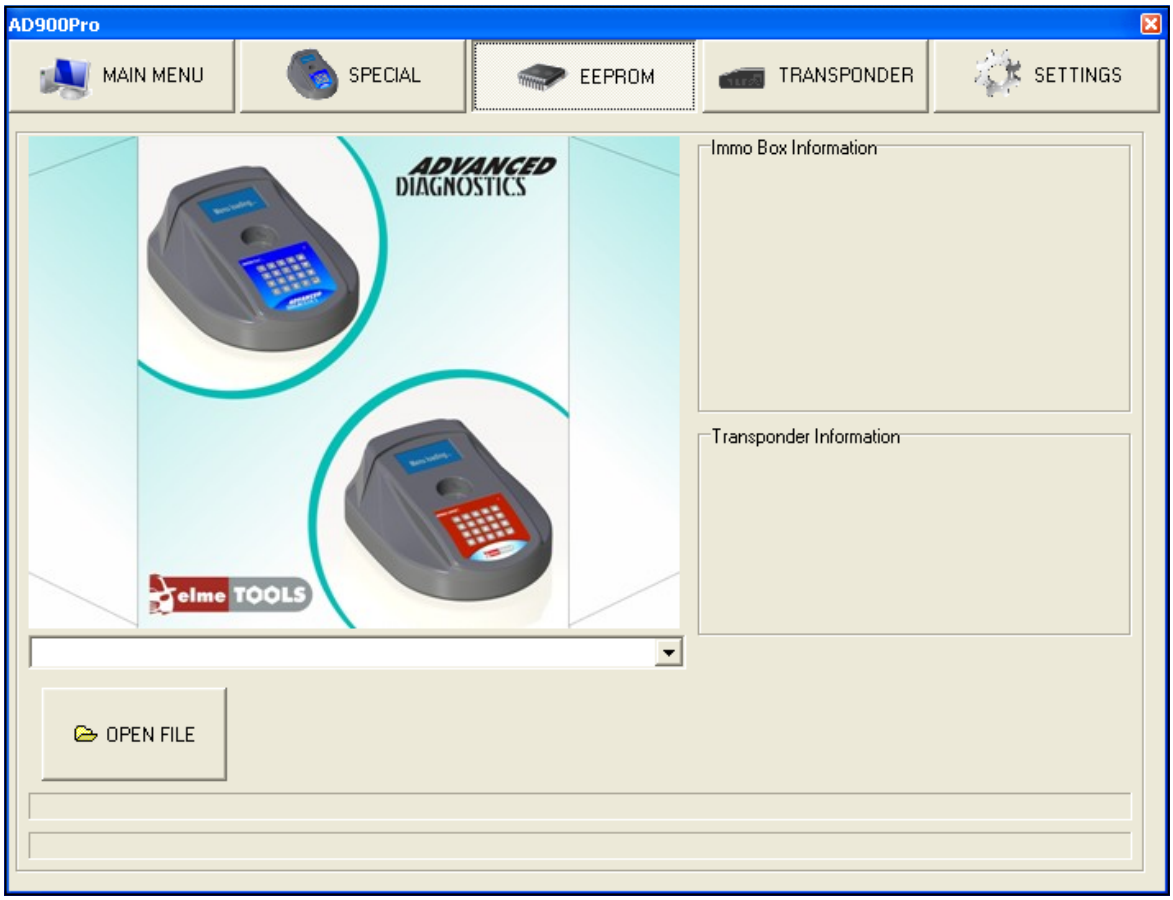
C. Click **GENERATE**

D. The status bar will indicate if copying was successful.

E. The transponder can now be programmed into a vehicle.
Note: remember the slot number that was programmed.

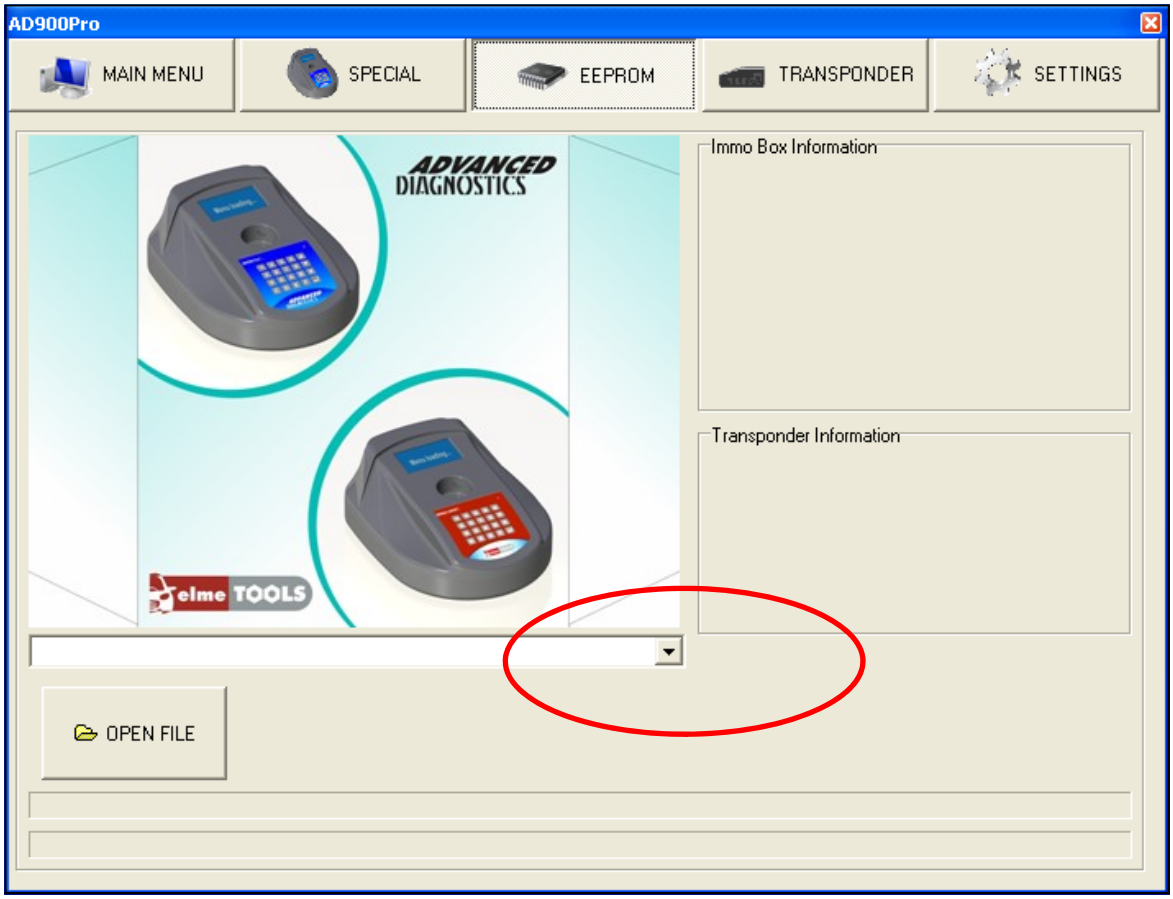
AD900Pro - PC SOFTWARE

EEPROM



This function is used in conjunction with an EEPROM reader (not sold by Advanced Diagnostics). Depending on the system the transponder information and/or the pin code can be read.

The file that is read by the EEPROM reader is programmed into the special transponder by using the AD900Pro and PC software program.



Procedure

A. Select **EEProm** tab.
B. Select the EEprom module that you want to work with from the pull down tab.

There are 4 different methods of doing these EEproms, which for explanation purposes we will refer to as Type A, B, C, and D.

Method 1 - Obtains the pin code and writes the key in the menu.

Method 2 - Writing to the transponder only.

Method 3 - Pre-coding transponder and reading the pincode. (used by the Fiat and Alfa derivative cars).

Method 4 - Read the pin code only (as used on any vehicles using the Phillips crypto 2 (id46) chips).

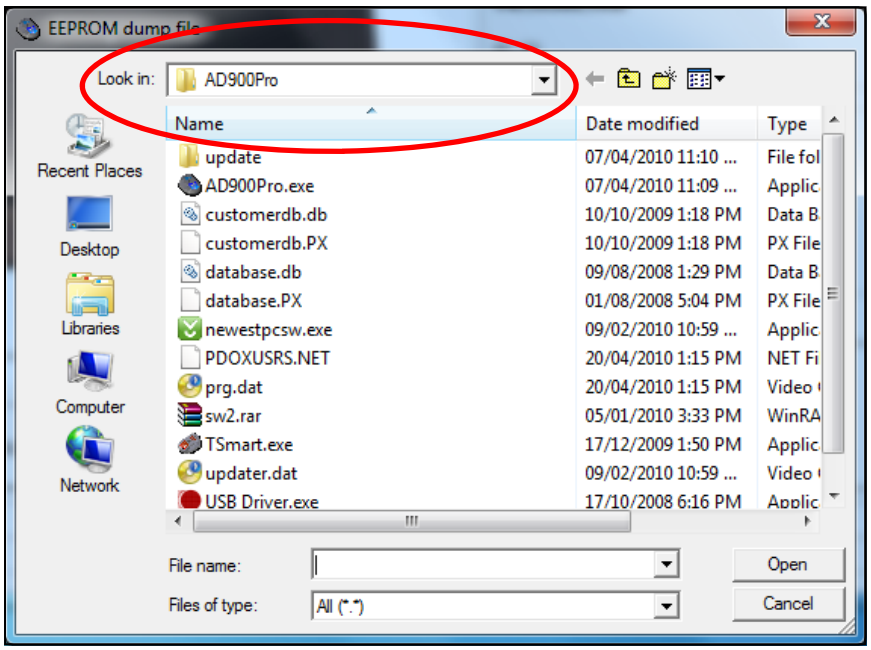
The following pages all assume that you have read the file from the EEprom module using your EEprom reader and saved it to a known location on your PC. This manual does not cover the reading of the EEprom file with an EEprom reader.

METHOD 1 - Obtains the pin code and writes the key in the menu.

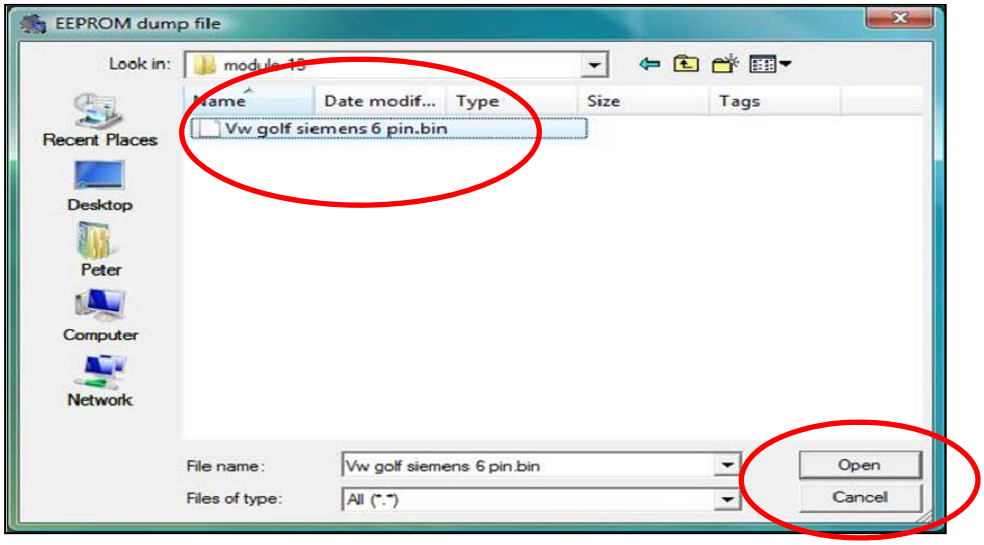
Example module selected - (AD913) VW Golf with a Siemens 6 pin box.

A. Select the module from the drop down menu.

B. Click the **OPEN FILE** button and point to the location you have saved the EEprom or Processor file (dump) that you have read with your programmer

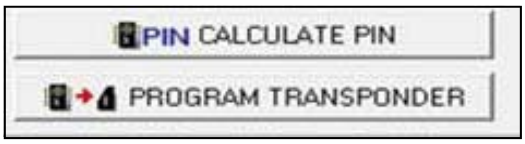


C. Select the file that you need and click **Open**.



E. The path to the file selected will appear under the **OPEN FILE** button.

F. You now have 2 options.



Option 1 - Calculate Pin

Clicking this option will provide you with the pin code, that can then be used to program the key into the vehicle using a key programming tool eg AD100Pro.

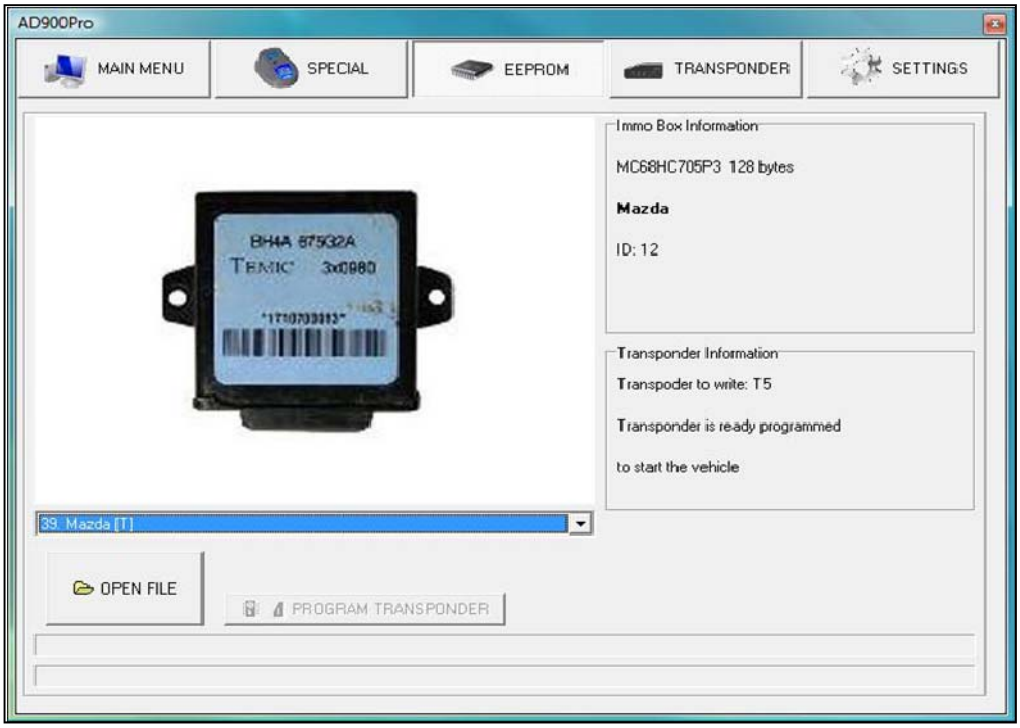
Option 2 Program Transponder

Insert a T5 transponder in the AD900Pro and click this option to program a transponder. You can now take this transponder, fit it into a key and start the car.

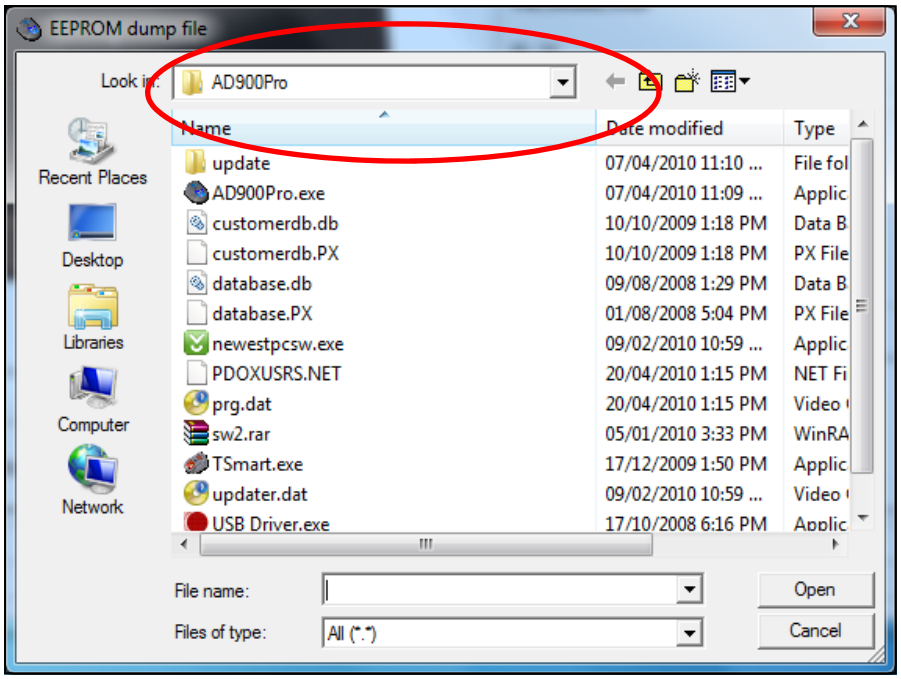
METHOD 2 - Writing to the transponder only.

Example module selected - (AD39) Mazda with a Temic box, ID33

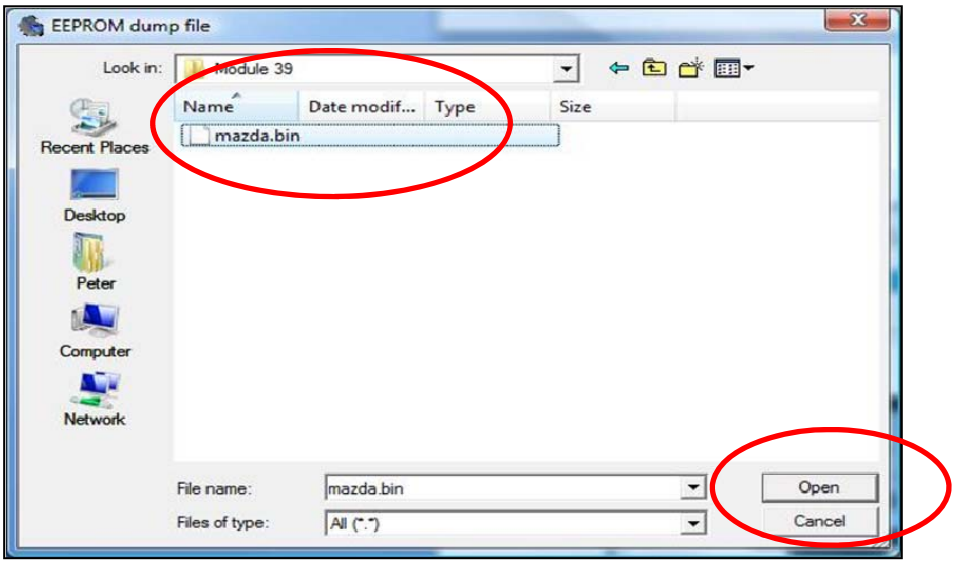
A. Select the module from the drop down menu.



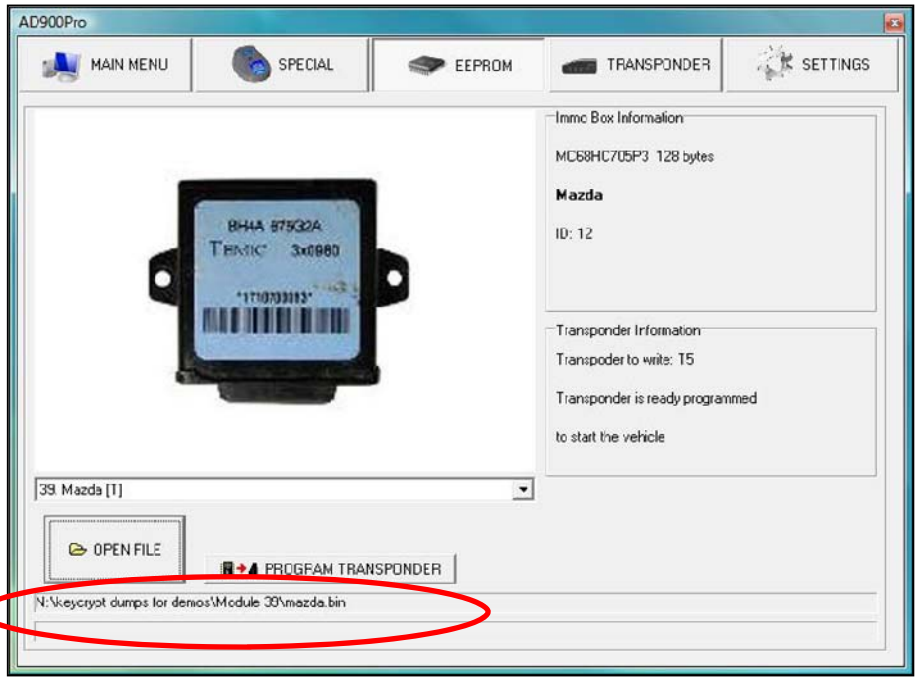
B. Click the **OPEN FILE** button and point to the location you have saved the EEprom or Processor file (dump) that you have read with your programmer



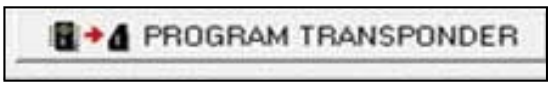
C. Select the file that you need and click **Open**.



D. The path to the file selected will appear under the **OPEN FILE** button.



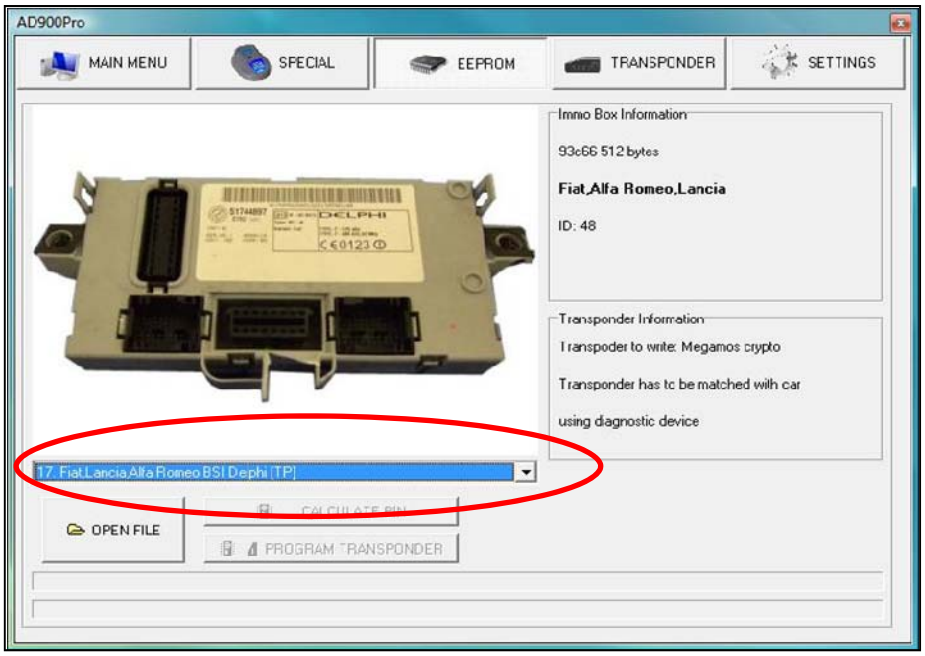
E. Insert a T5 transponder in the AD900Pro and click this option to program a transponder. You can now take this transponder, fit it into a key and start the car.



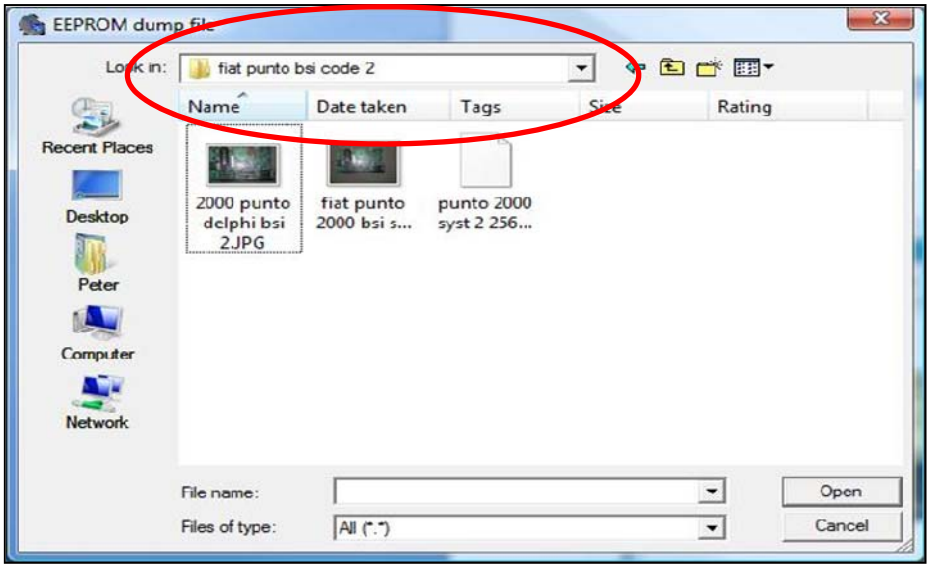
METHOD 3 - Pre-coding transponder and reading the pincode. (used by the Fiat and Alfa derivative cars).

Example module selected - (AD17) Fiat,Lancia,Alfa Romeo BSI Delphi (TP)
This allows a T6 to be pre-coded to a virgin T6 transponder . It also reads the 5 digit pin number, to program this key to the car with your key programming tool eg AD100Pro

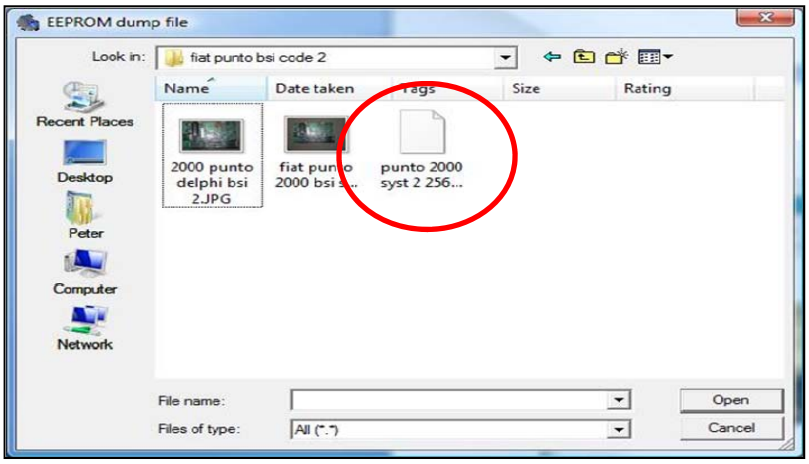
A. Select the module from the drop down menu.



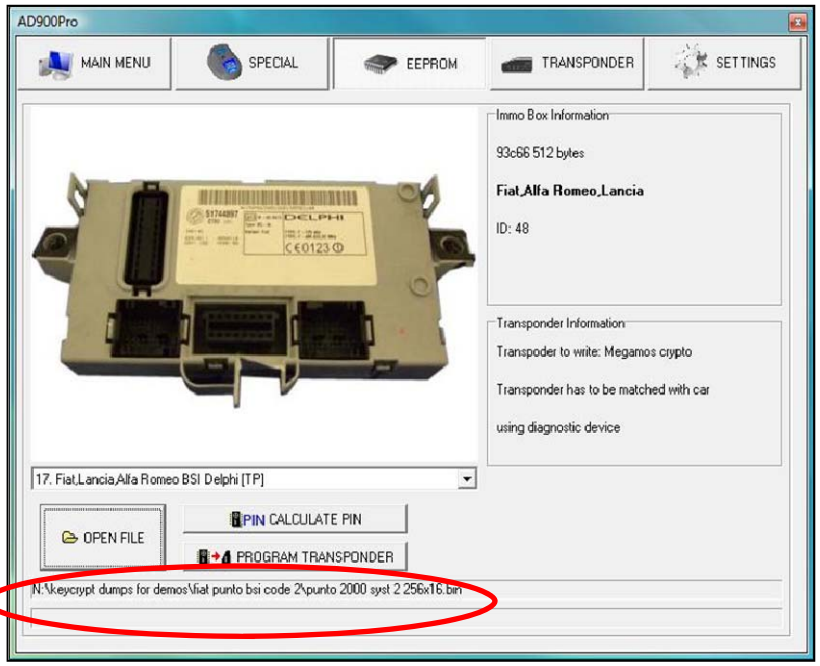
B. Click the **OPEN FILE** button and point to the location you have saved the EEprom or processor file (dump) that you have read with your programmer



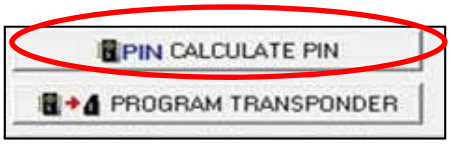
C. Select the file that you need and click **Open**.



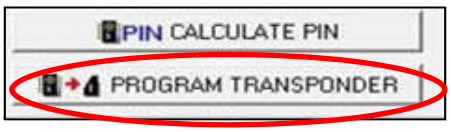
D. The path to the file selected will appear under the **OPEN FILE** button.



E. Click **Calculate Pin,** which will provide you with the pin code.



E. Insert a virgin T6 transponder in the AD900Pro and click **Program Transponder**. This will pre-code the transponder.

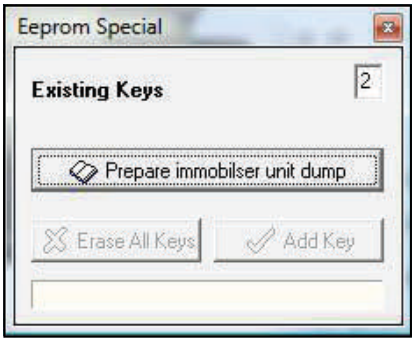


F. The key can now be programmed into the vehicle using a key programming tool eg AD100Pro, and the pin code provided.

Alternatively the transponder can be prepared so that the car is ready to start with no programming with the diagnostic tool .

A. Click **Prepare immobiliser unit dump**

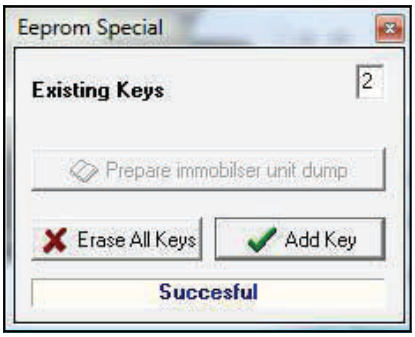
B. The following EEPROM Box will appear, which will advise how many keys are currently programmed (in this case there are 2).
Click **Prepare immobiliser unit dump**



C. This will give you 2 options.

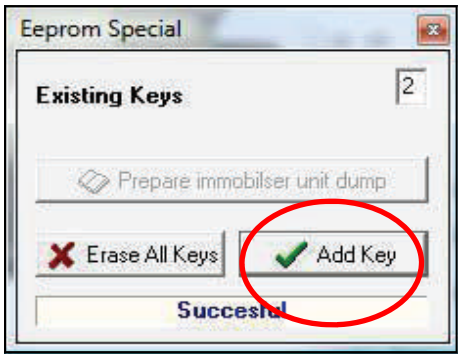
<u>Option 1 - Add Key</u>
Follow step D.

<u>Option 2 - ERASE All Keys</u>
Jump to step E.

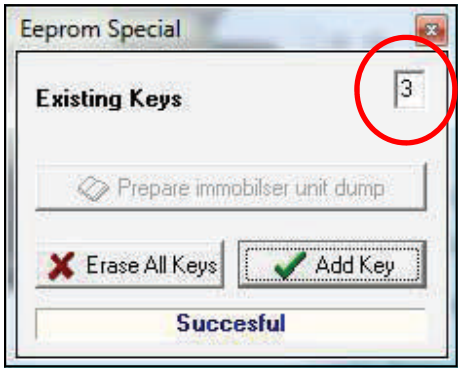


D. Option 1 - ADD KEY

i) Insert a T6 transponder to the reader on the device and press the **Add Key** button.



ii) This will read the locked information from the T6 transponder and write this to the dump, which will be called **New dump.bin**. As you can see it now shows 3 keys.

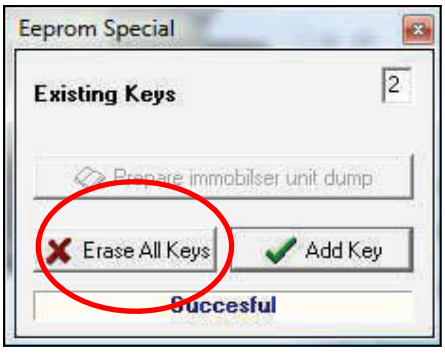


iii) Now write this dump back to the EEprom with your EEprom reader.

iv) Fit the immobiliser/Bsi unit back to the vehicle and start it without the use of a diagnostic tool.

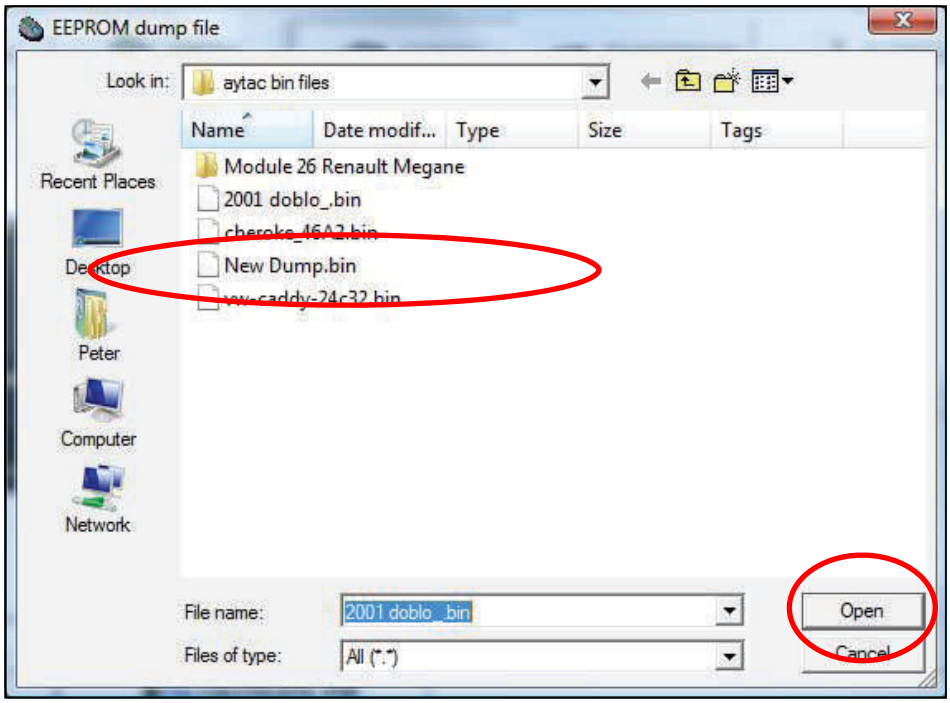
E. Option 2 - ERASE ALL KEYS

i) Click the **Erase All Keys** button.



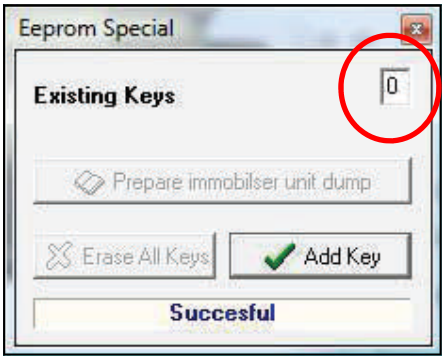
iii) Select the main page and click **Open File**

iv) Select the new file called **New Dump.bin** and click **OPEN**

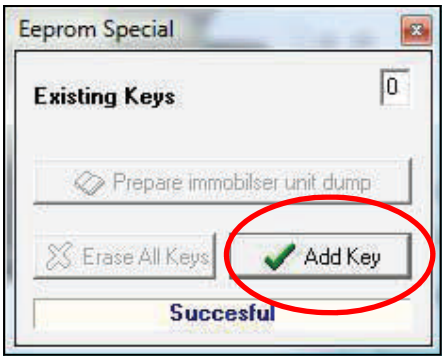


v) Click **Prepare immobiliser unit dump**

vi) 0 keys will be displayed.

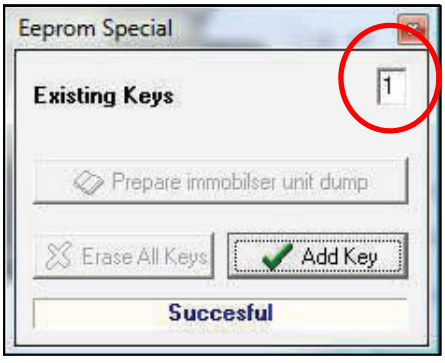


vii) Click **Add Key**.



viii) 1 key will be displayed.

viiii) Once completed. Write this file back to the vehicle immobilser/ Bsi unit with your EEProm reader.
The programming is now complete without the use of a diagnostic tool



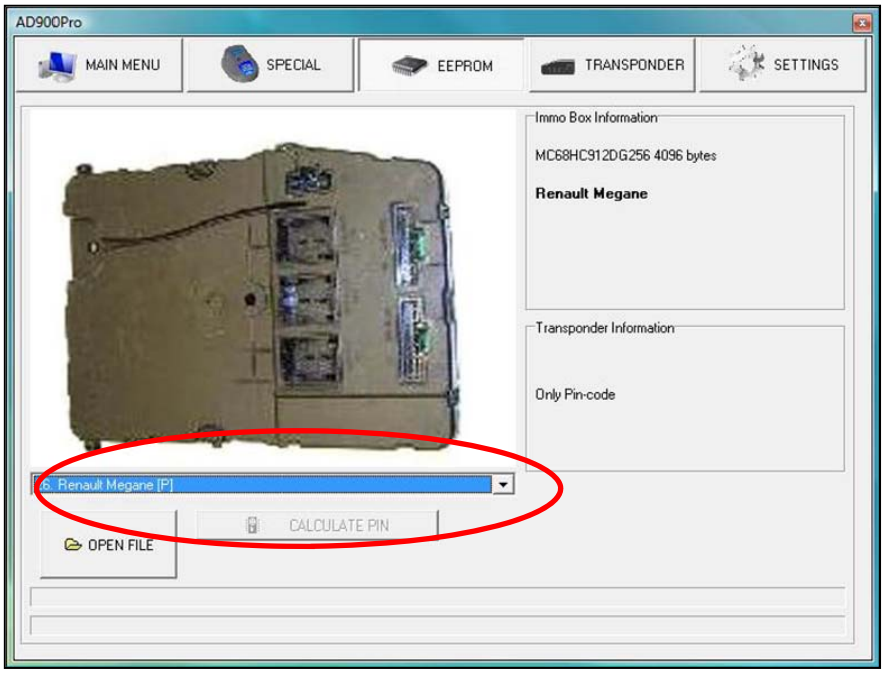
AD900Pro - PC SOFTWARE

NOTE:
If you are doing one of these white boxes as fitted to the Fiat Ducato range , then follow these same instructions.

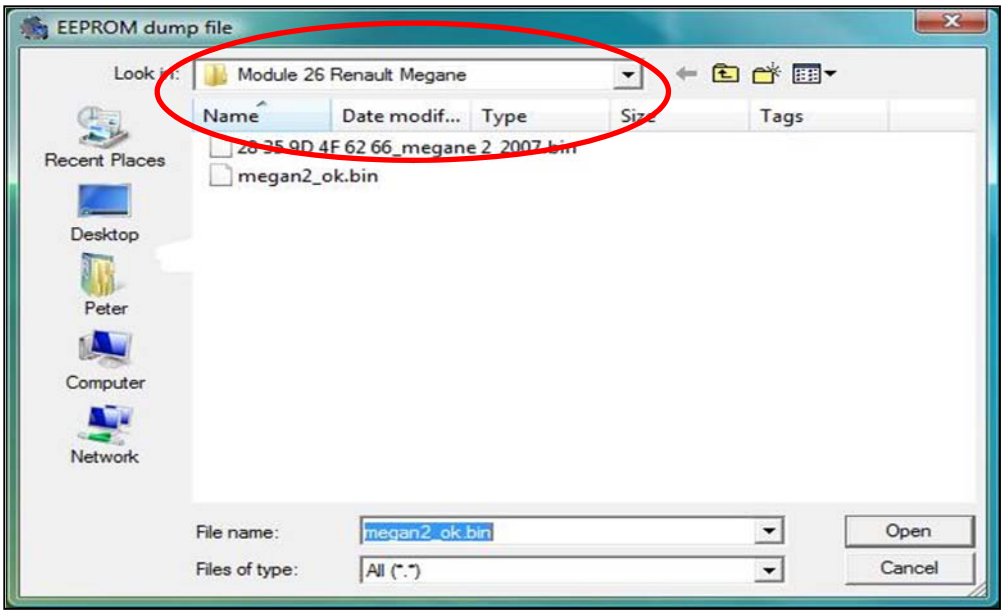
METHOD 4 - Read the pin code only (as used on any vehicles using the Phillips crypto 2 (id46) chips).

Example module selected - (AD26) Renault Megane (ID26)

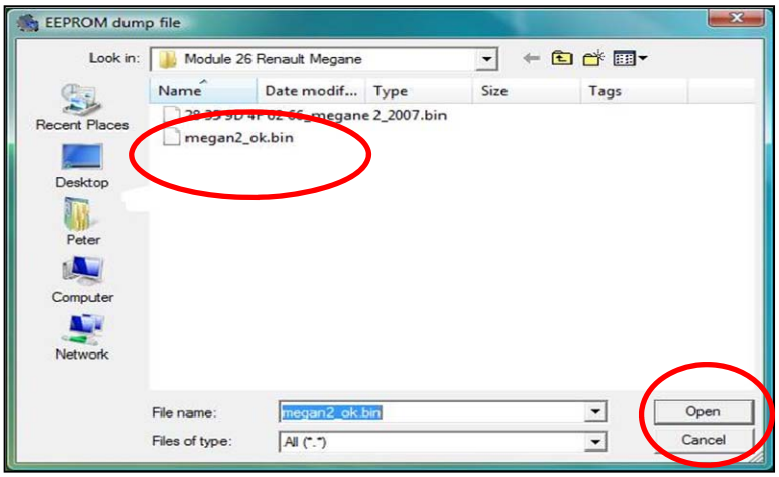
A. Select the module from the drop down menu.



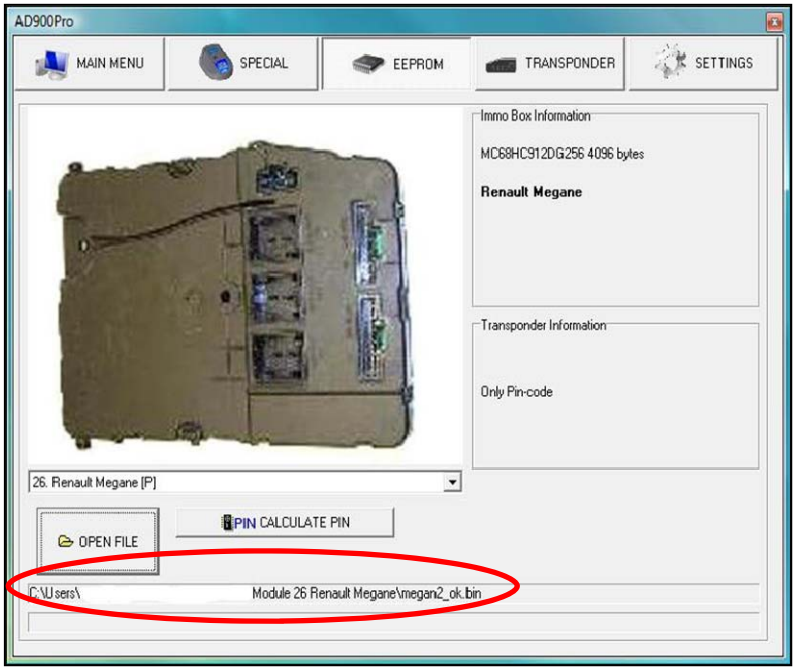
B. Click the **OPEN FILE** button and point to the location you have saved the EEprom or processor file (dump) that you have read with your programmer



C. Select the file that you need and click **Open**.



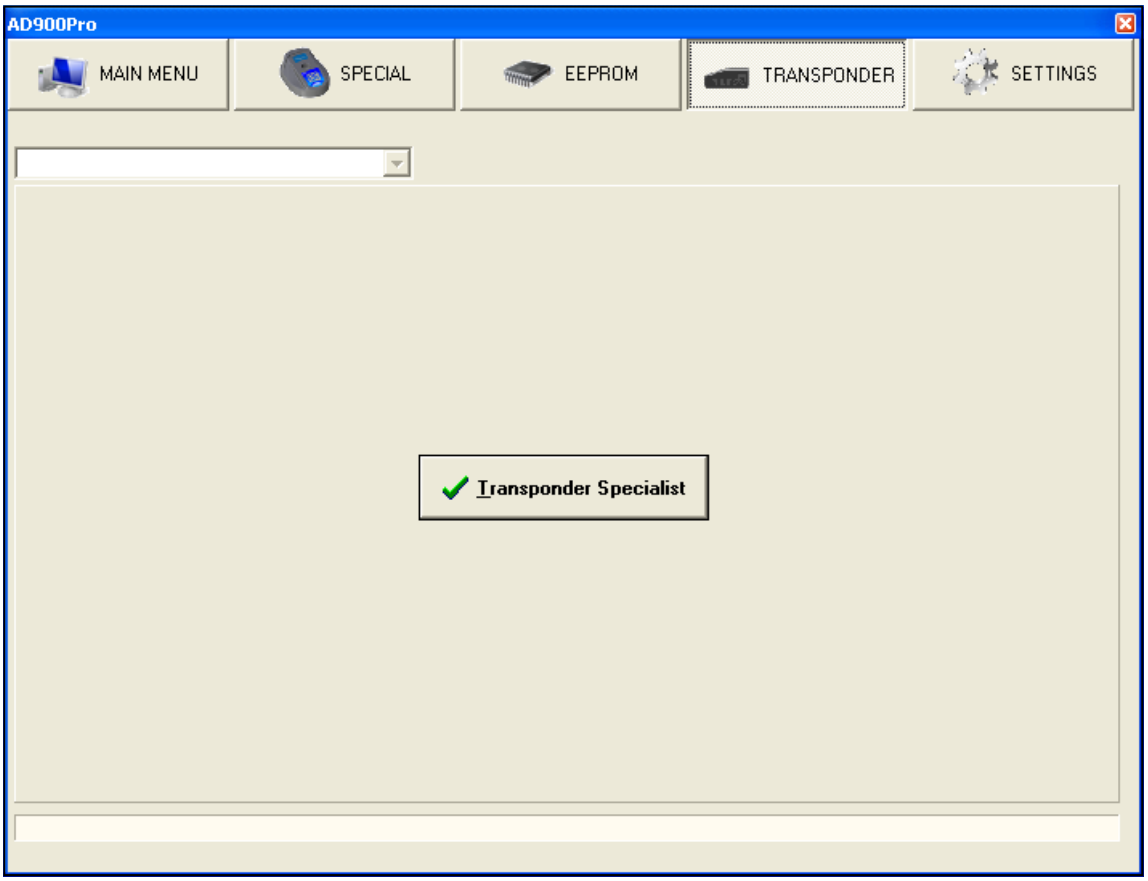
D. The path to the file selected will appear under the **OPEN FILE** button.



E. Click **Calculate Pin Code.** This will provide you with the pin code, that can then be used to program the key into the vehicle using a key programming tool eg AD100Pro.

AD900Pro - PC SOFTWARE

TRANSPONDER



This facility is designed to allow the transponder to be fully configured and should only be used by an individual that is fully knowledgeable in this area.

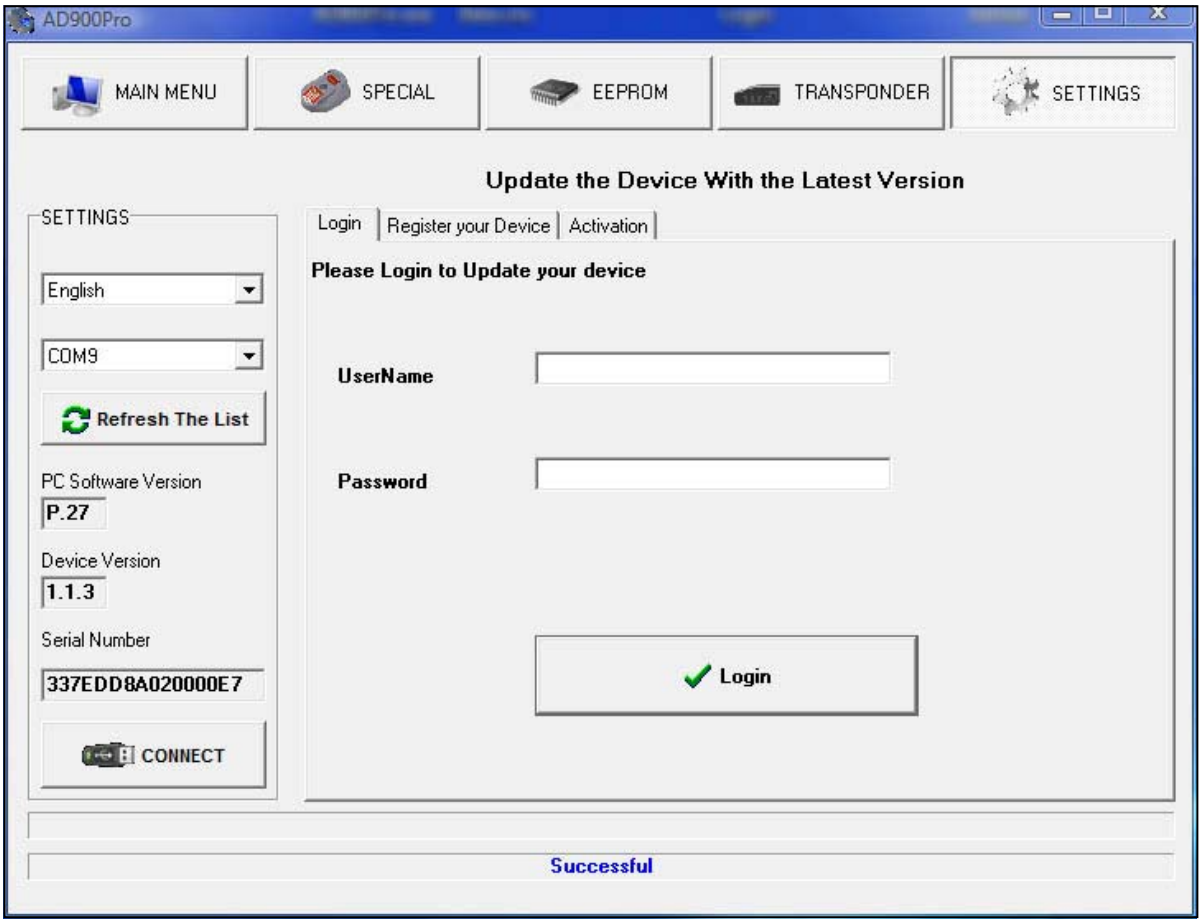
There is also a facility to reset certain remote controls for some Renault and Opel/GM vehicles.

Eg Renault 1 button - When programming a Renault remote control to a car, you cannot use this remote control for another car, because it will be locked to the first car.
If you change the IC of this remote control (PCF7946AT etc.) you can reset the remote control. But you should preprogram the IC using the transponder specialist function.

Advanced Diagnostics are unable to provide any technical support in this area given its specialist nature.

AD900Pro - PC SOFTWARE

SETTING



The **SETTINGS** page allows the following:

Language - Select language
Com Port - Select correct com port that the tester is connected to. (Normally this does not need to be changed)
PC Software Version* - Software version currently loaded on the PC.
Device Version* - Software version currently loaded on the tester.
Serial Number* - Serial number of the tester.
Status* - Successful will appear at the bottom of the screen if the tester is connected correctly.
Login: - Enter Username & Password to be able to update your device and tester software.
Register Your Device: - Only needs to be completed once.
Activation: - When you have registered your device you will receive an e-mail back that contains an activation code. This code needs to be entered on this screen to activate the device. Only needs to be completed once.
Forgotten Password - Used to request a new password.

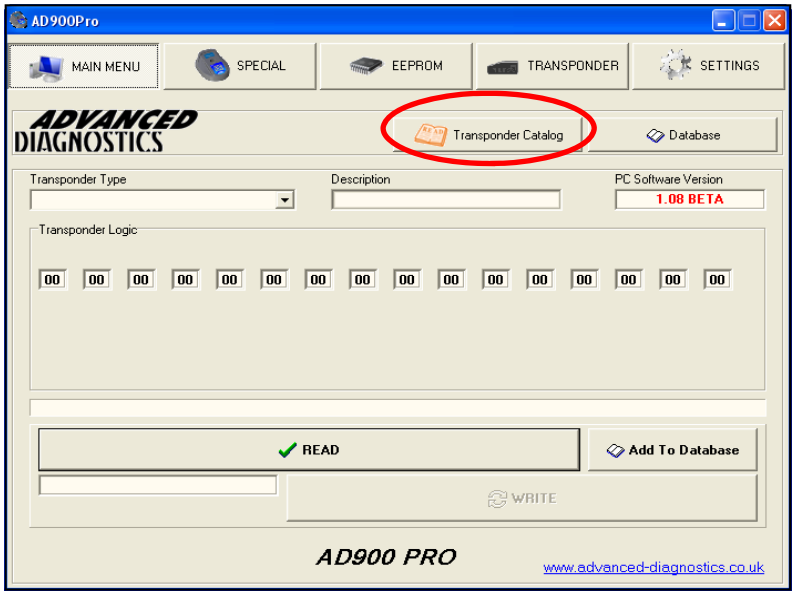
Note: You may need to click **CONNECT** to display the information above (*****).

AD900Pro - PC SOFTWARE

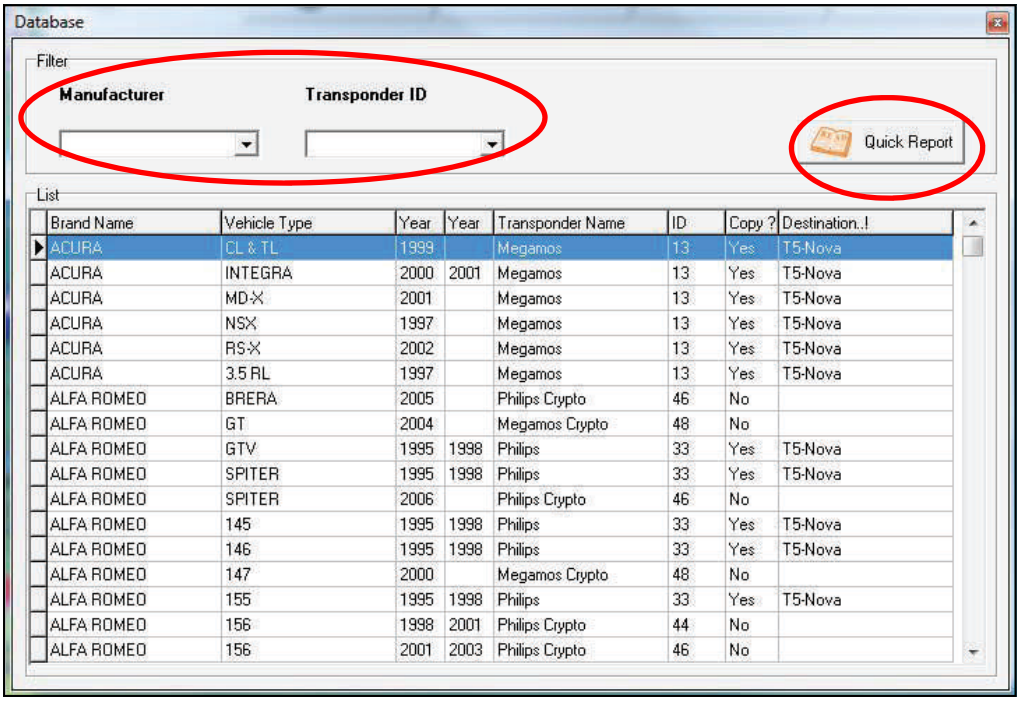
TRANSPONDER CATALOGUE

A. This facility provides a database of manufacturers, vehicles, transponders fitted, transponder type, if it can be copied and what it can be copied onto.

B. Select **Transponder Catalogue**



C. You can either search by Manufacturer, Transponder ID or simply scroll down the list.



Brand Name	Vehicle Type	Year	Year	Transponder Name	ID	Copy ?	Destination..!
ACURA	CL & TL	1999		Megamos	13	Yes	T5-Nova
ACURA	INTEGRA	2000	2001	Megamos	13	Yes	T5-Nova
ACURA	MD-X	2001		Megamos	13	Yes	T5-Nova
ACURA	NSX	1997		Megamos	13	Yes	T5-Nova
ACURA	RS-X	2002		Megamos	13	Yes	T5-Nova
ACURA	3.5 RL	1997		Megamos	13	Yes	T5-Nova
ALFA ROMEO	BRERA	2005		Philips Crypto	46	No	
ALFA ROMEO	GT	2004		Megamos Crypto	48	No	
ALFA ROMEO	GTV	1995	1998	Philips	33	Yes	T5-Nova
ALFA ROMEO	SPITER	1995	1998	Philips	33	Yes	T5-Nova
ALFA ROMEO	SPITER	2006		Philips Crypto	46	No	
ALFA ROMEO	145	1995	1998	Philips	33	Yes	T5-Nova
ALFA ROMEO	146	1995	1998	Philips	33	Yes	T5-Nova
ALFA ROMEO	147	2000		Megamos Crypto	48	No	
ALFA ROMEO	155	1995	1998	Philips	33	Yes	T5-Nova
ALFA ROMEO	156	1998	2001	Philips Crypto	44	No	
ALFA ROMEO	156	2001	2003	Philips Crypto	46	No	

D. **Quick Report** allows you to export or print the file.

SECTION F

AD900Pro
PC SOFTWARE
INSTALLATION
&
UPDATE PROCEDURE

AD900Pro - SOFTWARE INSTALLATION

The AD900Pro is supplied with the latest software available at the time. However it is recommended that you update the software regularly.

If you have purchased any additional software modules, you will also need to update your tester to activate this software.

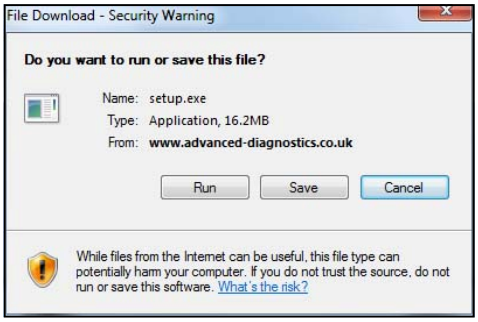
Loader Program Installation

First step is to install the loader program. Do not connect the AD900Pro tester until instructed.

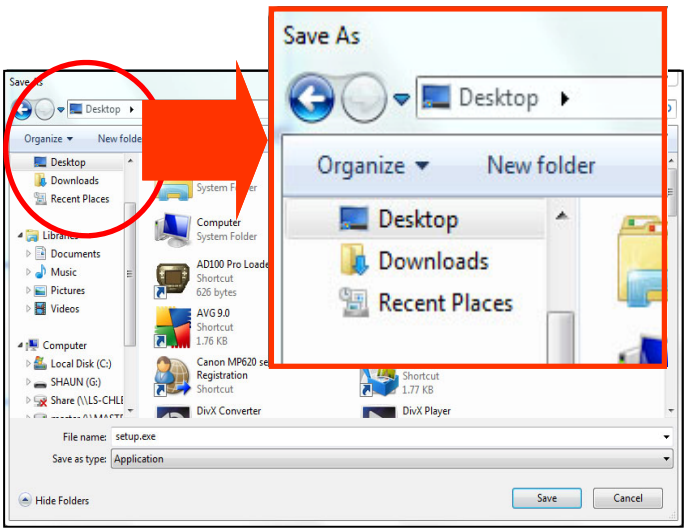
Procedure

A. Visit **www.advanced-diagnostics.co.uk** website
B. Select **Downloads** from the main menu.
C. Then select **LOADER PROGRAM** from the pull down menu under the AD900Pro icon.

D. Click **Save**



E. Select to save the file to the **Desktop**.
Then click **Save**.

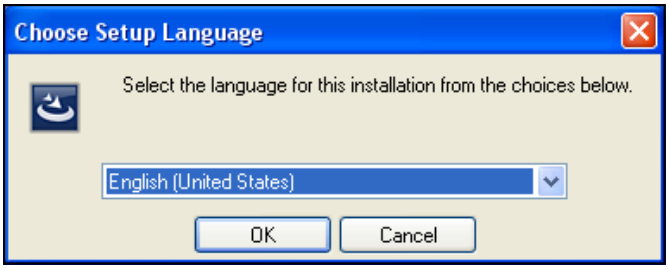


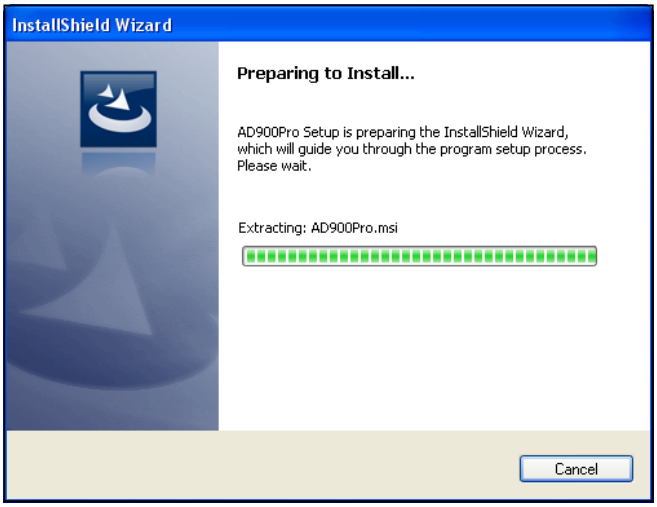
AD900Pro - SOFTWARE INSTALLATION F

F. Double click on the **setup.exe**

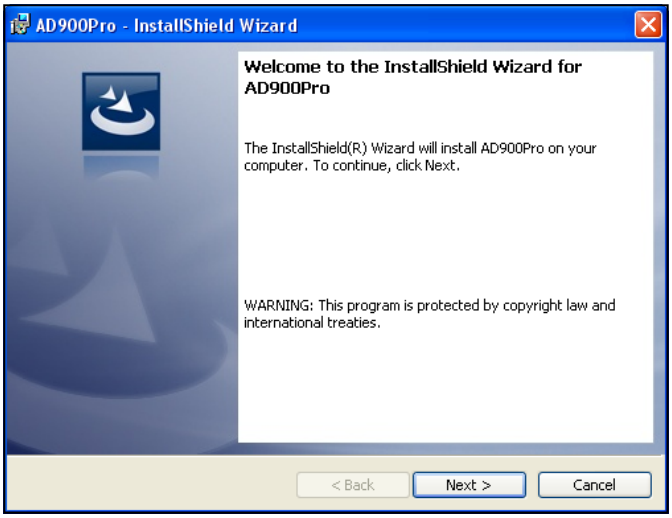
Vista & Windows 7 Users
Right click on the setup.exe icon on the desktop.
Select **Run as administrator** .
Click **Yes** to the User Account Control dialogue box.

G. Select Language & click **OK**



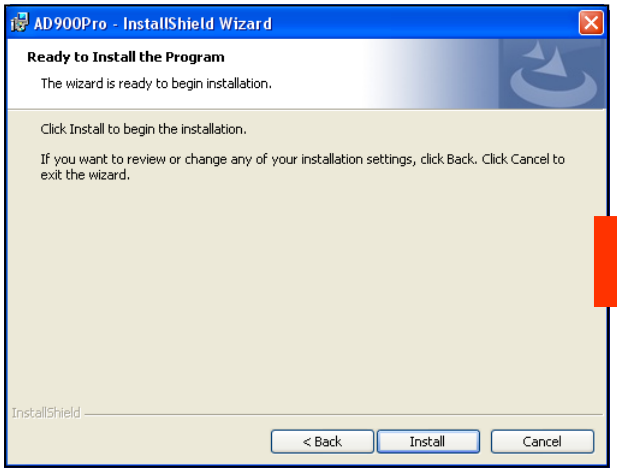


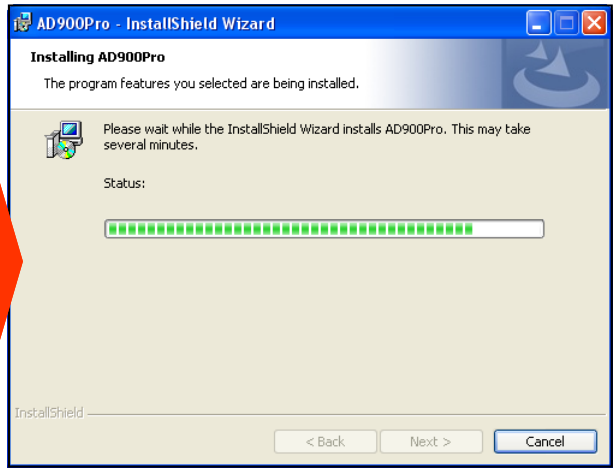
H. Click **NEXT**



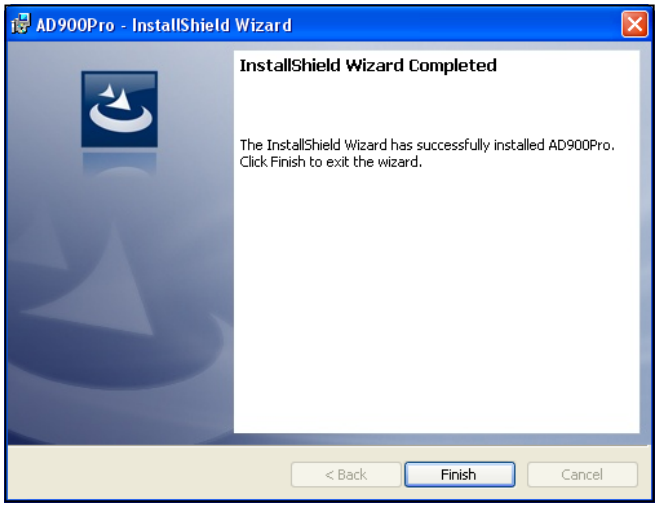
AD900Pro - SOFTWARE INSTALLATION

I. Click **INSTALL**





J. Click **FINISH**



K. The **AD900Pro** & **Launch USB Driver.exe** icons will be displayed on your desktop.

L. Double click the **Launch USB Driver .exe** icon. This will then install automatically

Connecting AD900PRO To The PC

A. Connect power to the tester but do not switch the tester on.
B. Connect the USB cable from the tester to the PC USB port.
C. Switch the tester on.
Note: The first time you connect to the PC, Windows will detect new hardware and automatically install. Wait until Windows confirms a successful installation.
D. Open the PC program by double clicking on the AD900Pro icon on the desktop.
E. Select the **SETTINGS** tab
E. The first time you connect to the PC and open the PC program you may need to select the correct com port from the pull down list in the **SETTINGS** tab. Normally this is not necessary.
Note: You may need to click the **REFRESH LIST** button.
F. The next time you connect to the same USB port it will detect the AD900Pro automatically. However sometimes it is still necessary to select manually.

NOTE:

When using AD900Pro in conjunction with the PC Software Program, ensure that the AD900Pro is switched on first, before opening the PC software. This ensures that the PC detects the com port correctly.

AD900Pro - Registration & Activation

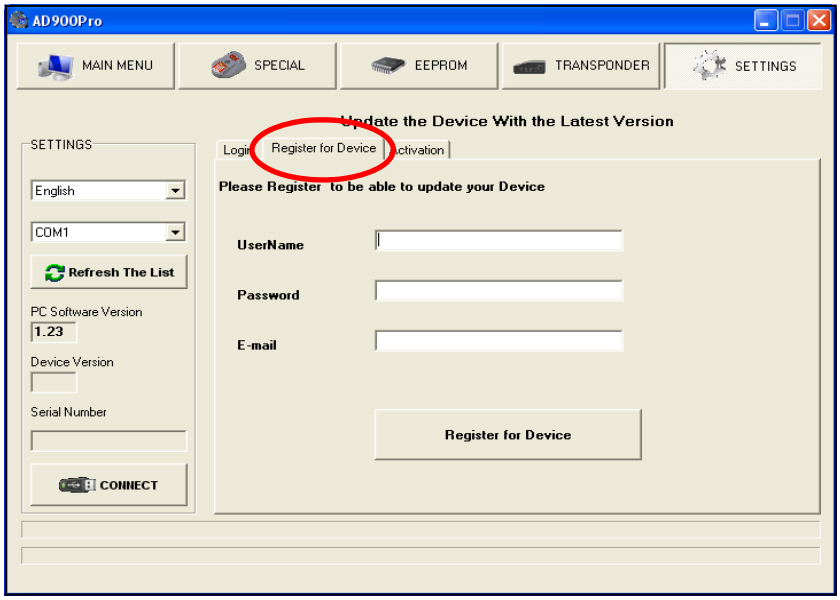
F

Registration & Activation

This process is only required once for your device.

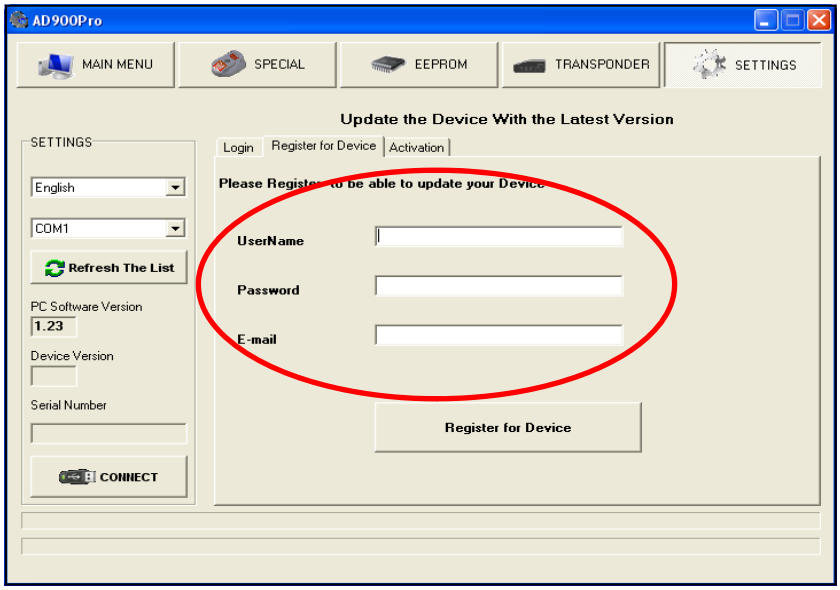
A. Connect power to the tester but do not switch the tester on.
B. Connect the USB cable from the tester to the PC USB port.
C. Switch the tester on and wait for the main menu to be displayed.
D. Open the PC program by double clicking on the AD900Pro icon on the desktop.
E. Select **SETTINGS**.
F. Check the correct Com port is selected by clicking **CONNECT**.

G. Select the tab **Register For Device**



H. Enter a **USERNAME, PASSWORD & valid E-MAIL ADDRESS.**

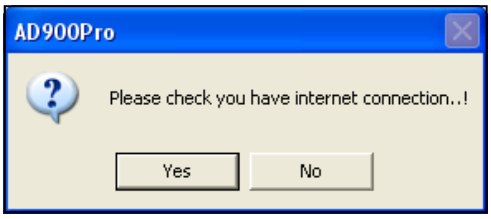
IMPORTANT
Keep this information safe as you will require it for updating your tester and PC software)



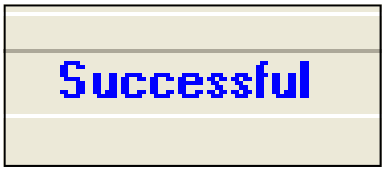
AD900Pro - Registration & Activation

I. Click **Register For Device**.

J. Confirm you have an internet connection.



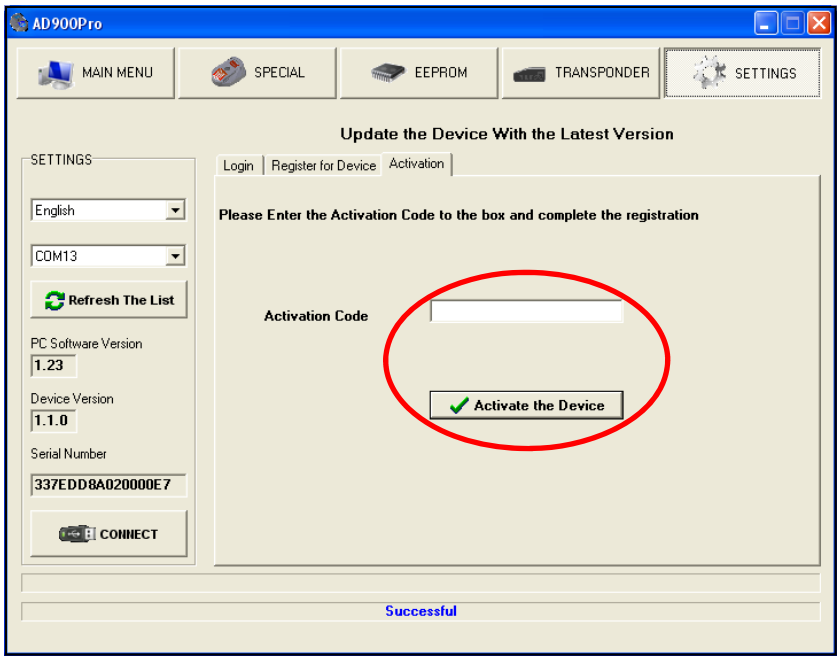
K. The status bar at the bottom of the Settings screen should indicate that the process has been successful.



L. You will receive an e-mail back to the e-mail address you entered that will confirm the following:

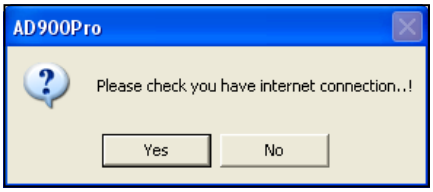
Please do not reply to this e-mail
User Name : tester
Password : 1234
Activation Code : 5C90F929

M. Select the **Activation tab**, enter the activation code and click **Activate the Device**

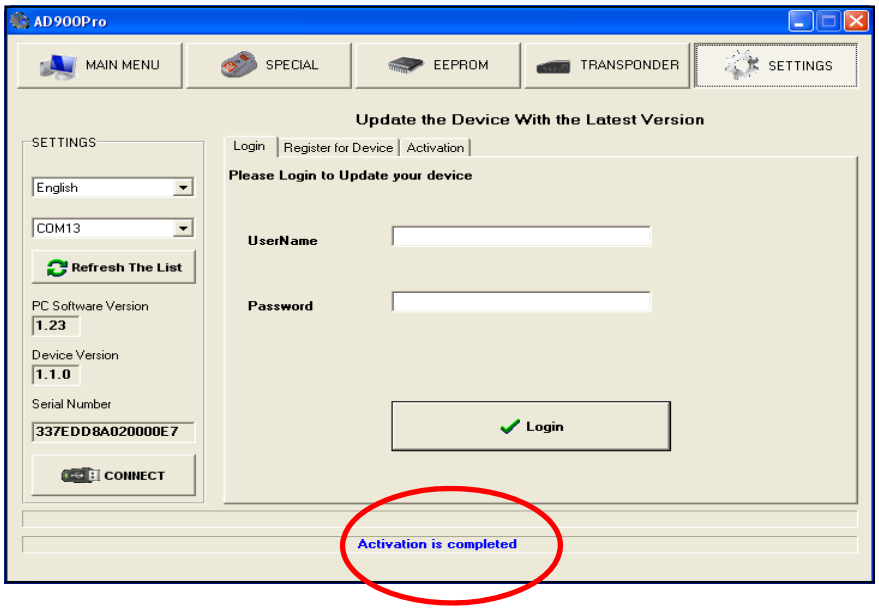


AD900Pro - Registration & Activation

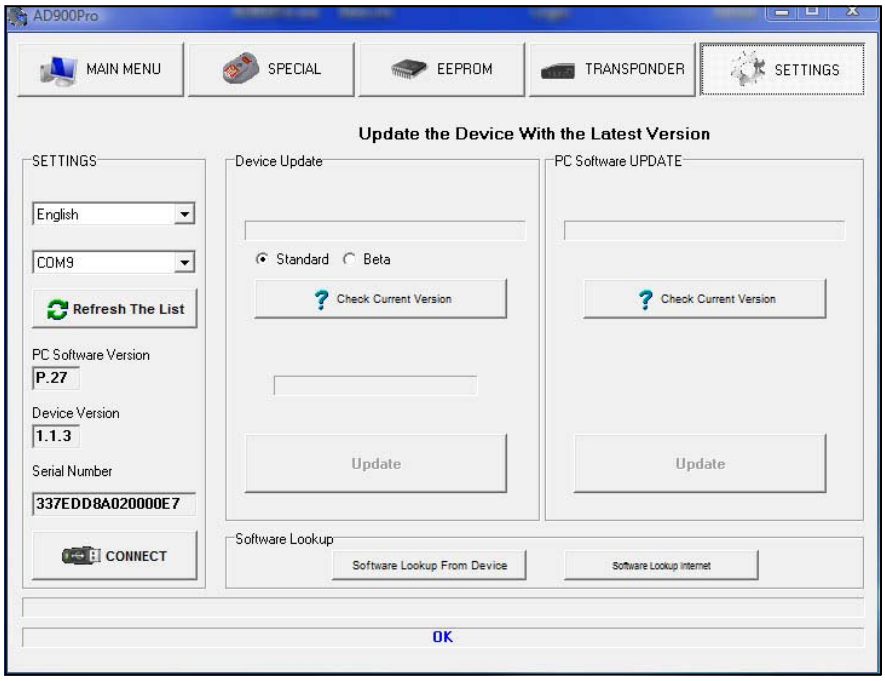
N. Confirm you have an internet connection



O. You will then be presented with the following screen that confirms activation was successful.



If you wish to update either your device or the PC software you will need to go to the login tab and logon using your details . You will then be presented with the following screen.



AD900Pro - SOFTWARE UPDATE

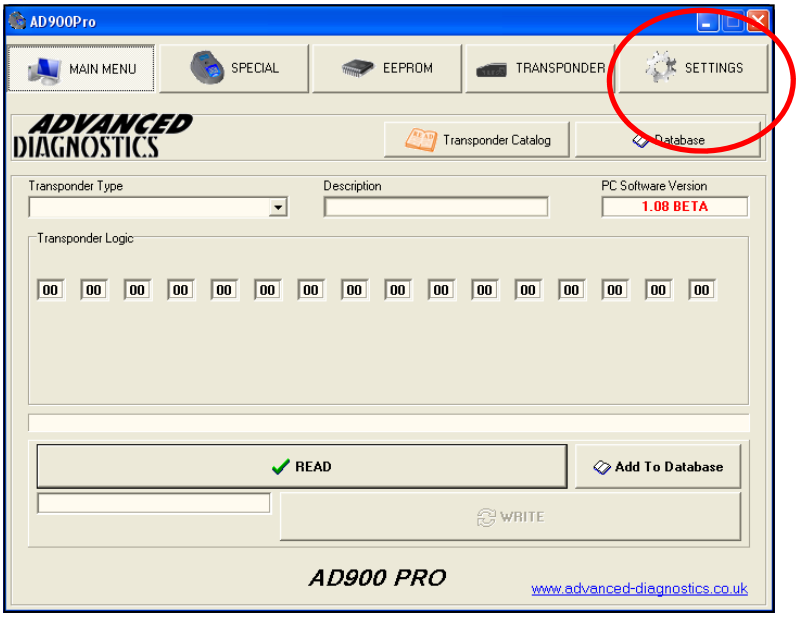
F

PC Software Update Procedure

If this is the first time you are connecting your tester to the PC please refer to section F and follow the **Connecting AD900Pro To The PC & Registration / Activation** instructions first. If you have already activated your tester then please proceed with the following instructions.

A. Connect power to the tester but do not switch the tester on.
B. Connect the USB cable from the tester to the PC USB port.
C. Switch the tester on.
D. Double click the AD900Pro icon on your desktop to open the software program.

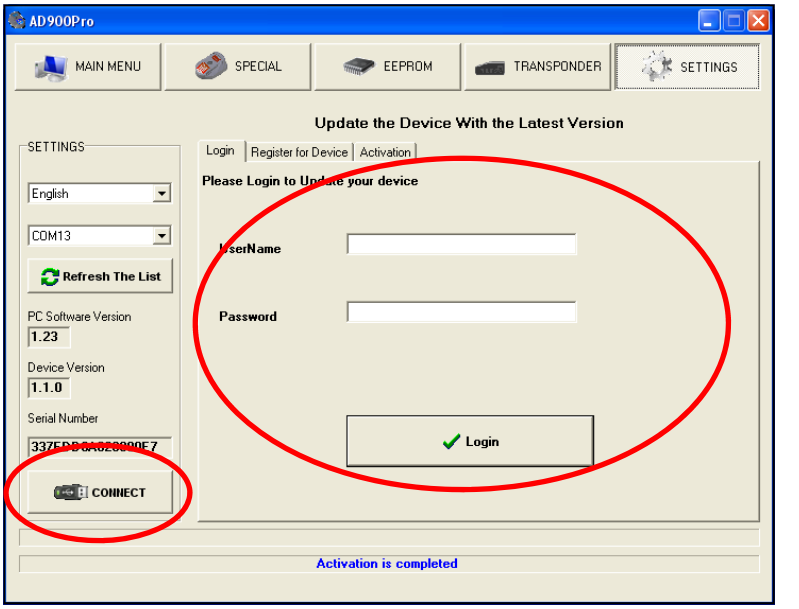
E. The PC program will open. click **Settings**



F. Enter Username & Password and click **Login**

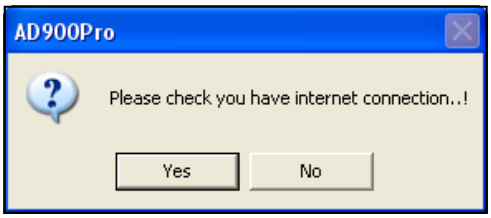
Note:
Ensure that the correct com port is selected. The serial number will be displayed if it is correct.

G. Click **Connect**



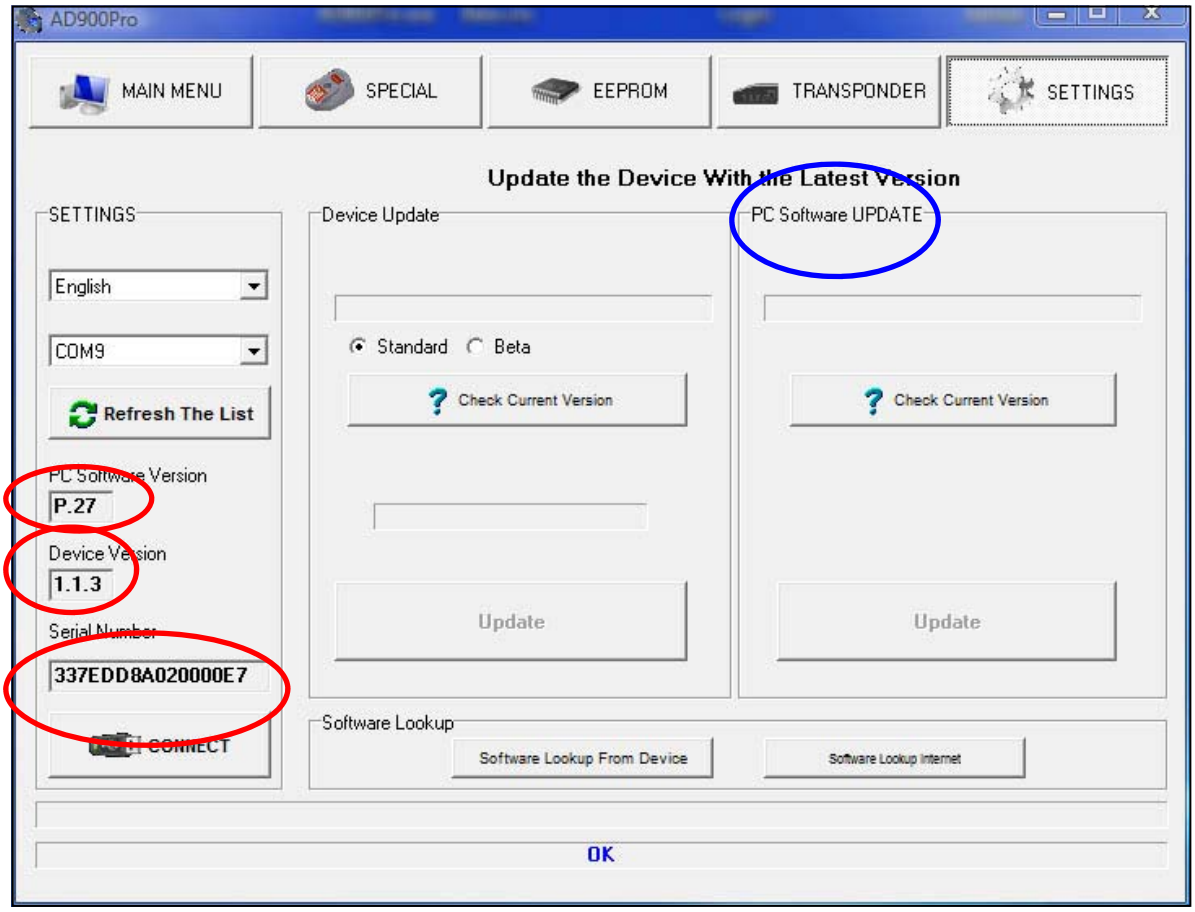
AD900Pro - SOFTWARE UPDATE

H. Confirm you have an internet connection

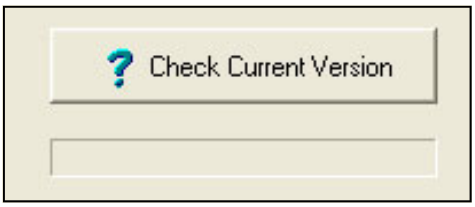


The following screen will then be displayed.

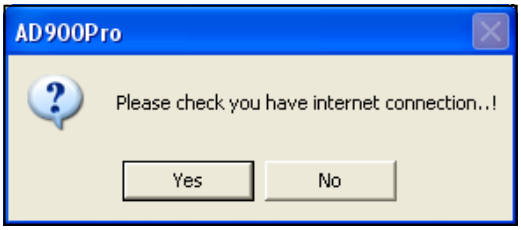
PC Software Version - Software version currently loaded on the PC.
Device Version - Software version currently loaded on the tester.
Serial Number - Serial number of the tester.
Status - **OK** will appear at the bottom of the screen.



I. Click **Check Current Version** for PC Software UPDATE

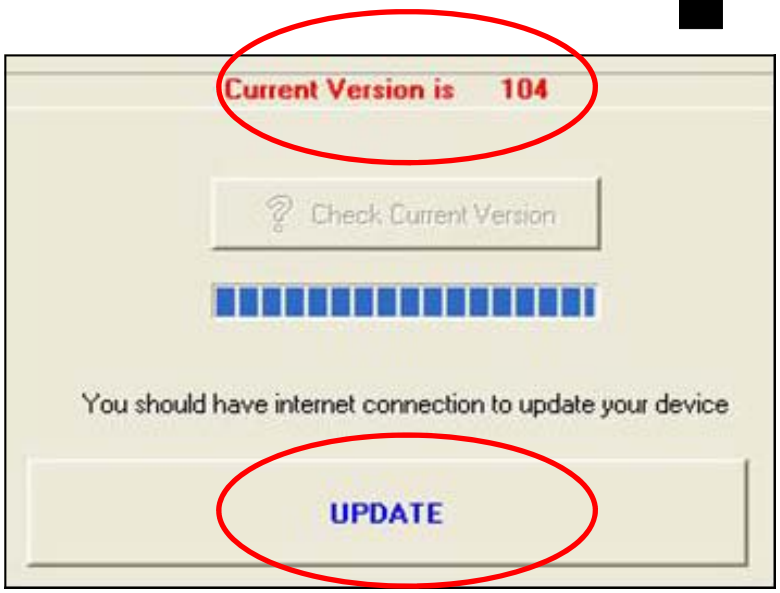


J. Click **YES** to confirm you have internet connection.



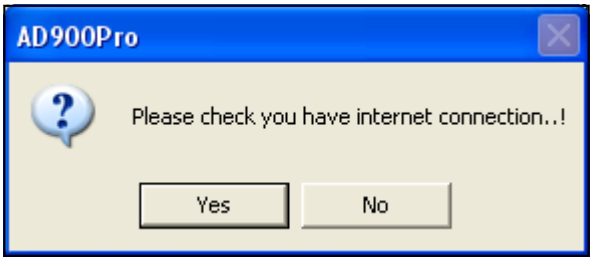
AD900Pro - SOFTWARE UPDATE

K. The current software version available on the internet to download will be displayed.

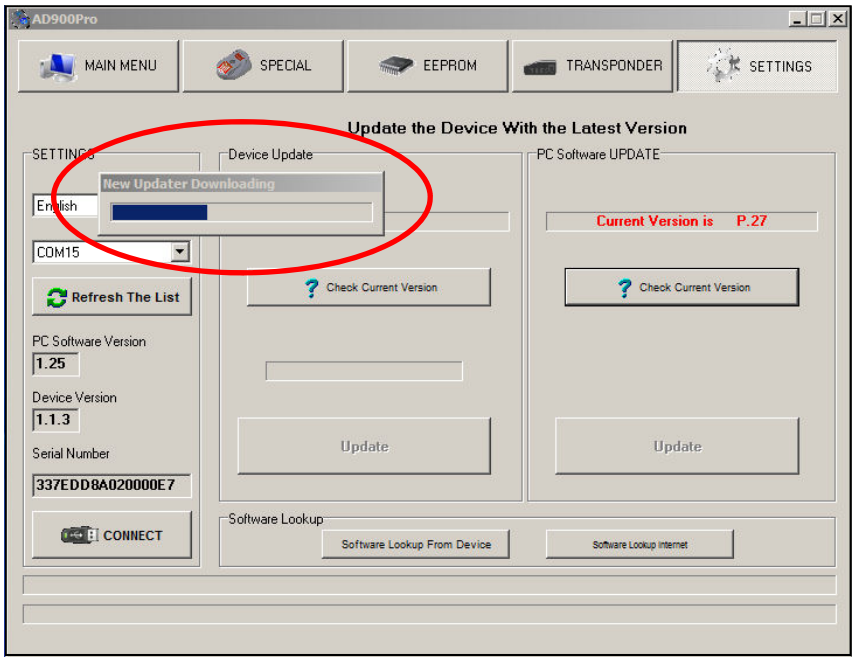


L. Click **UPDATE** to download the latest version of software.

M. Click **YES** to confirm you have internet connection.



N. The updater software will start.

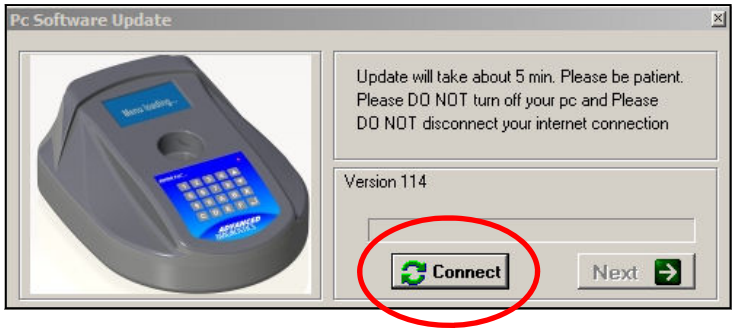


AD900Pro - SOFTWARE UPDATE

F

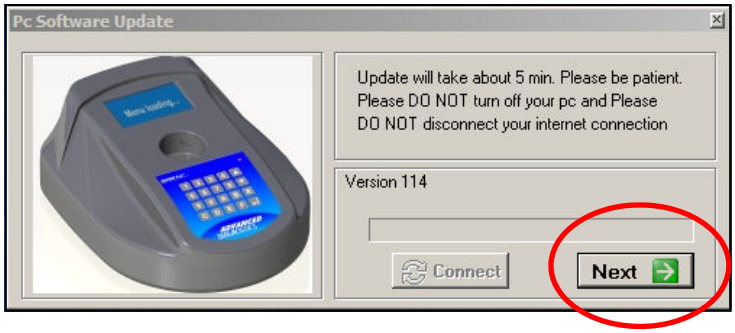
O. The PC Software Update dialogue box will appear.

P. Click **Connect**

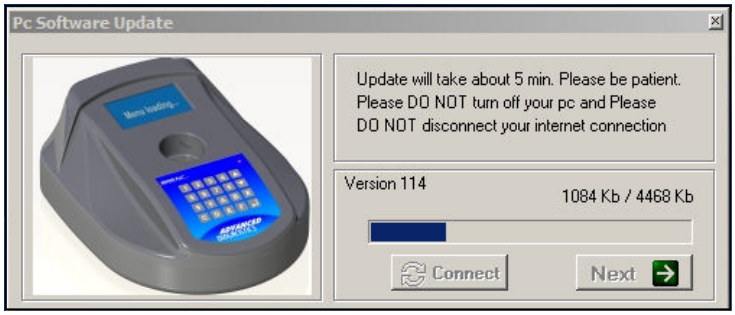


Q. The Next button should be now highlighted.

R. Click **Next**

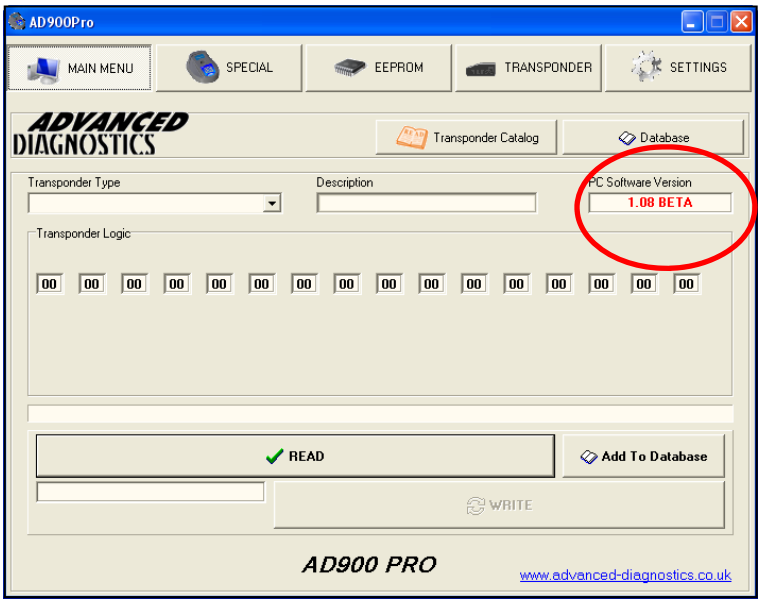


S. The PC software will start to update and will take approx 5 mins.



T. When completed the AD900Pro PC software will re-launch.

The new PC software version will be displayed.



AD900Pro - SOFTWARE UPDATE

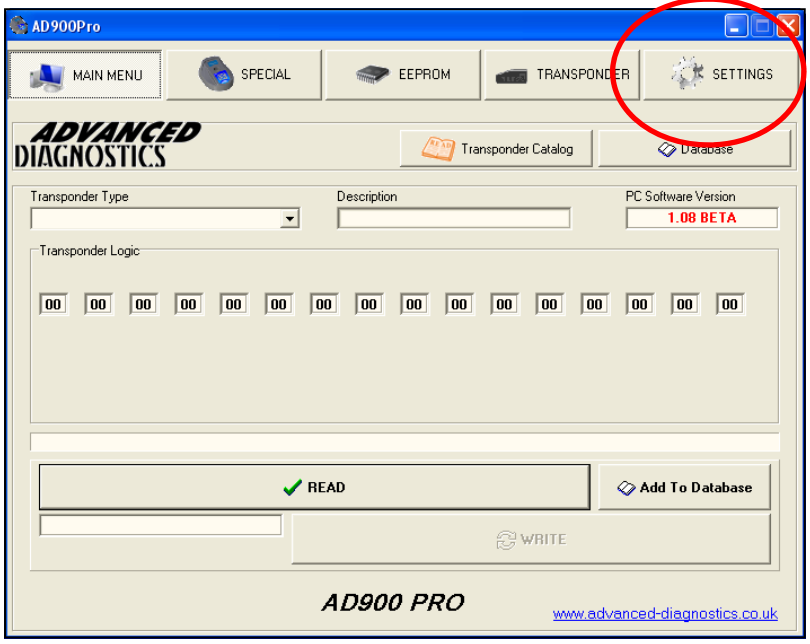
F

Device Software Update Procedure

If this is the first time you are connecting your tester to the PC please refer to the section **Connecting AD100Pro To The PC** first.

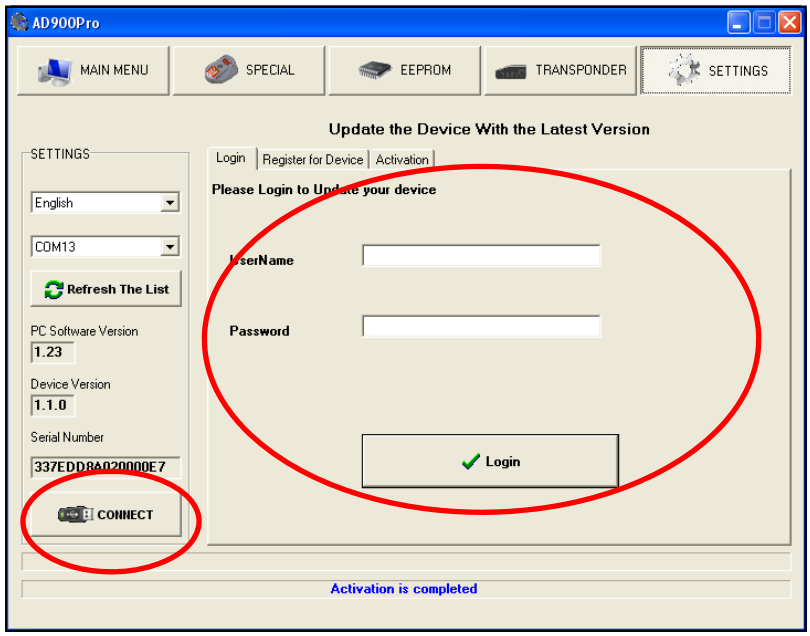
A. Connect power to the tester but do not switch the tester on.
B. Connect the USB cable from the tester to the PC USB port.
C. Switch the tester on.
D. Double click the AD900Pro icon on your desktop to open the software program.

E. The PC program will open. Click **Settings**



F. Enter details and Login.

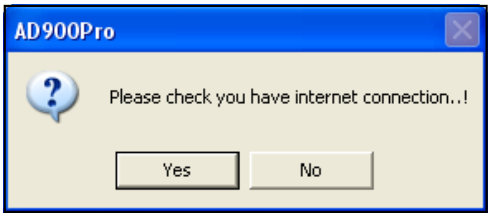
Note:
Ensure that the correct com port is selected. The serial number will be displayed if it is correct.



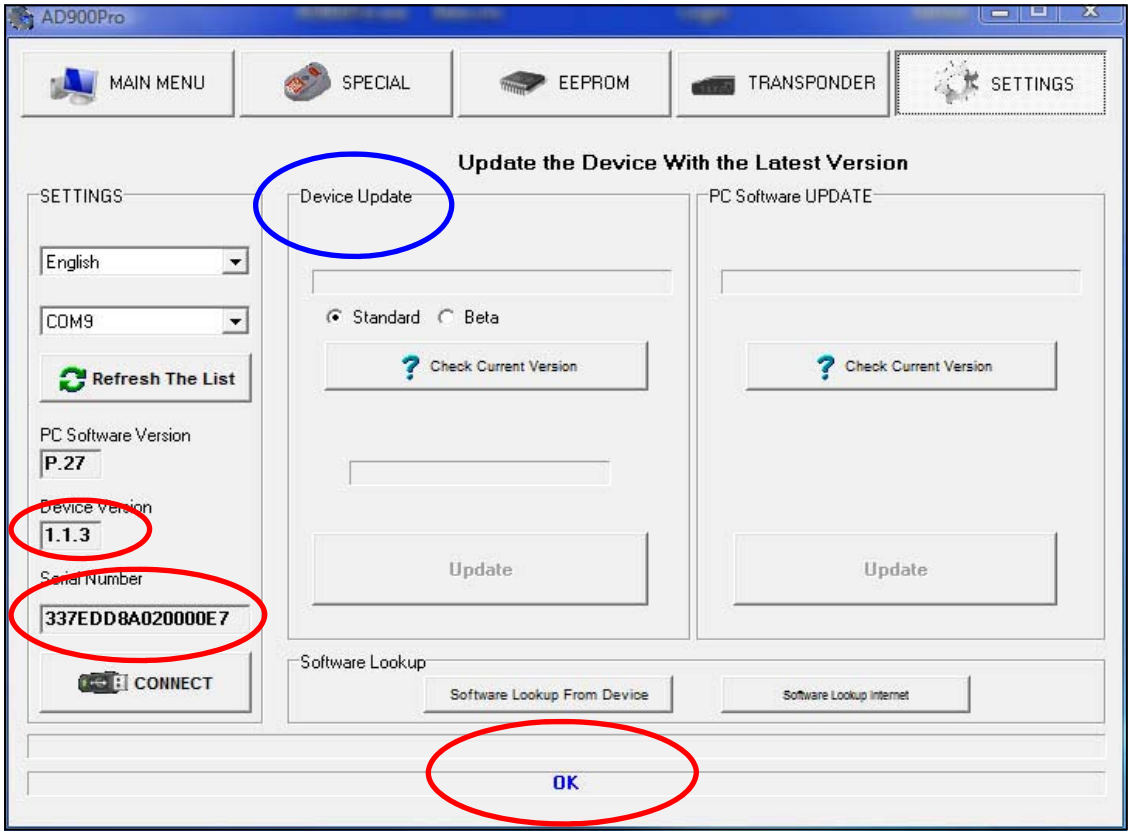
G. Click **Connect**

AD900Pro - SOFTWARE UPDATE

H. Confirm you have an internet connection

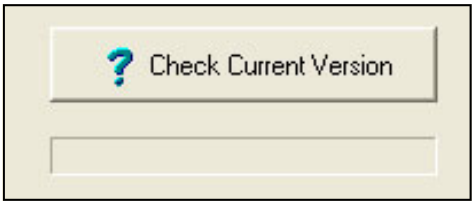


Device Version - Software version currently loaded on the tester.
Serial Number - Serial number of the tester.
Status - **OK** will appear at the bottom of the screen.

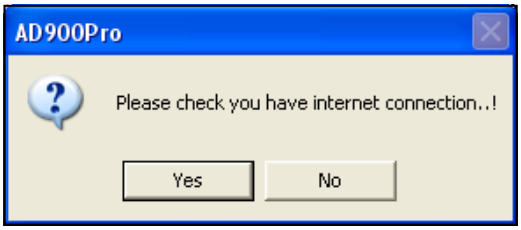


I. Select either Standard or Beta software
Standard - Latest released software.
Beta - New software still under development

J. Click **Check Current Version.**

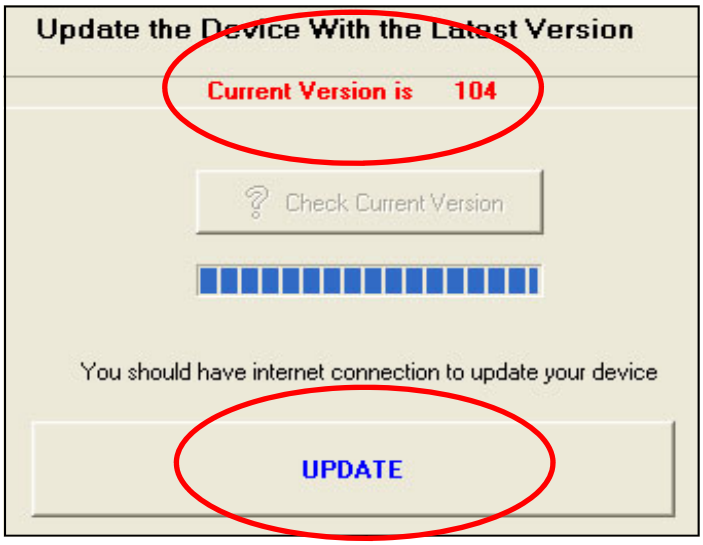


K. Click **YES** to confirm you have internet connection.



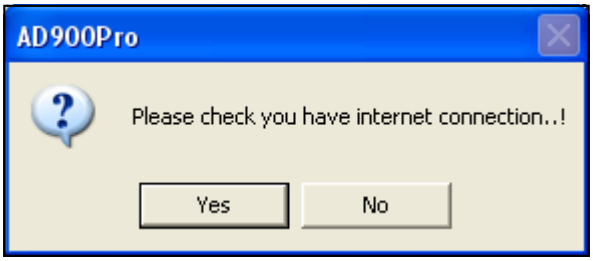
AD900Pro - SOFTWARE UPDATE

L. The current software version available on the internet to download will be displayed.

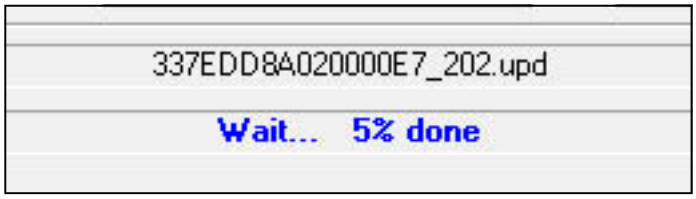


M. Click **UPDATE** to download the latest version of software.

N. Click **YES** to confirm you have internet connection.



O. The status bar will indicate the software update progress.
Note: Sometimes the device will get to 100% and then start again. This is normal and should be left until completed.



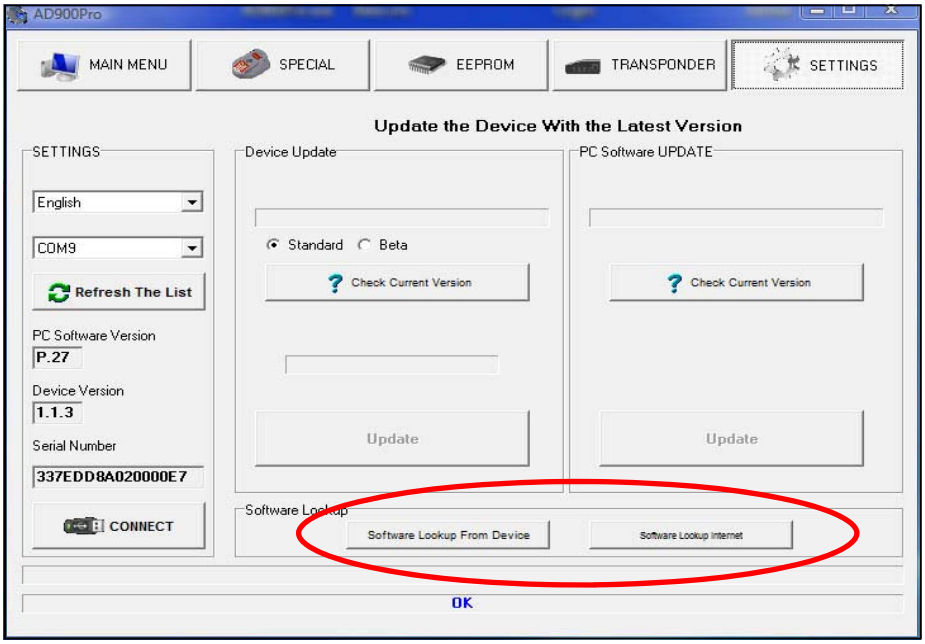
P. The status bar will indicate when software update is complete.

Q. You can now use your device as normal.

AD900Pro - SOFTWARE UPDATE

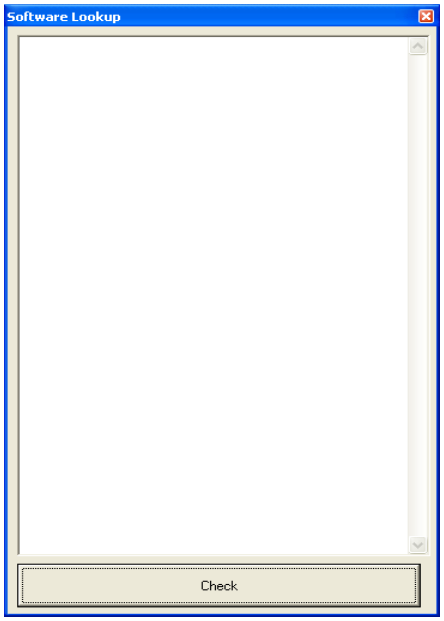
F

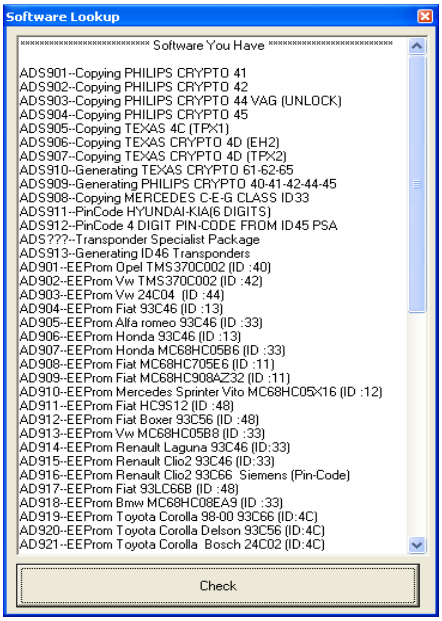
Software Lookup



Software Lookup Device
Facility to look at the software modules that you have loaded on your AD900Pro and those that are not.

1. Click **Software Lookup From Device**





2. Click **Check.** A list of **Software You Have** and **Software You Don't Have** will be displayed

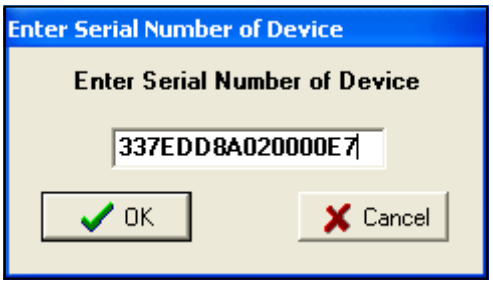
AD900Pro - SOFTWARE UPDATE

Software Lookup Internet
Facility to look at the software modules that you have available for download and those not. Used to check if additional software purchased is ready for download.
Note: You can only see the software on the tester that you have purchased

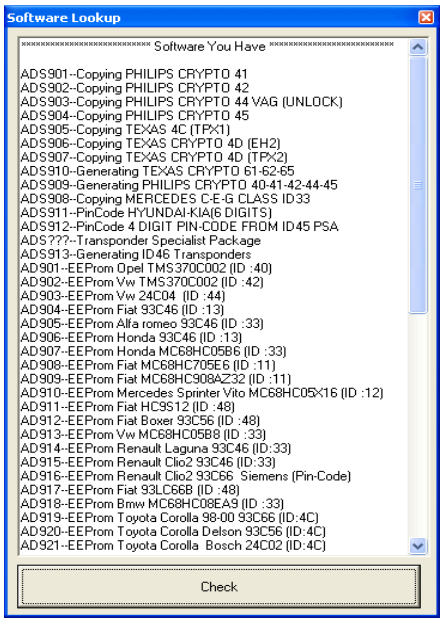
1. Click **Software Lookup Internet**

2. Enter the serial number of you're AD900Pro. Note: it will only work for your tester.

3. Click **OK**.



4. Click **Check.** A list of **Software You Have** and **Software You Don't Have** Will be displayed.



AD900Pro - TROUBLESHOOTING

G

Re-Setting The AD900Pro

If the AD900Pro needs re-setting, use the following procedure.

1. Press the **ENTER** button and the number **3** button at the same time.
2. Whilst both buttons are being pressed, switch the unit on.
3. The unit should power up and the screen should be blank.
4. Release the buttons.
5. Update the AD900Pro as normal.

AD900Pro Blue Screen

If the power is lost during an update procedure and the AD900Pro ends up blank ie just a blue screen, then perform the following steps:

1. Connect the AD900Pro to the PC via the USB
2. Switch the AD900Pro on.
3. Open the PC software.
4. DO NOT click CONNECT.
5. Select the correct COMM port.
6. Click Check current version (device)
7. Click Update.
8. Wait until tester updated.
9. Should be ok now.

Forgotten Password

If you have forgotten the password to login, then you can request a new Password as follows:

1. Select the **FORGOTTEN PASSWORD** tab from the SETTINGs page.
2. Fill in your e-mail address.
3. Click **SUBMIT**
4. A new password will be e-mailed back to you.

AD900Pro - SPECIFICATION

SPECIFICATION	
SIZE (mm)	200 (w) x 250 (d) x 90 (h)
WEIGHT	928g
VEHICLES COVERED	ALL MAKES
DISPLAY	LCD
POWER	9 to 12 V dc
CURRENT	0.5 Amps
FIELD FREQUENCY	125kHz
PC INTERFACE	USB
PC SOFTWARE	YES
OPERATING TEMPERATURE	-5°C to 40 °C

Advanced Diagnostics Ltd
Diagnostics House
Eastboro Fields
Hemdale
Nuneaton
CV11 6GL

T: +44(0)2476 347000
F: +44(0)2476 347100
W: www.advanced-diagnostics.co.uk

ADVANCED DIAGNOSTICS

AD900 Pro USA/Canada Supplement

12/06/11

Table of Contents

ADS-910

12/06/11

Texas crypto 61-62-65* transponder maker
*(4D 65 not used in North America)

The ADS-910 PC and standalone software will allow a Texas 4D “60” type transponder to be converted to a 61, 62 or 65 transponder.

A 4D 60 transponder that will be converted must have pages 1,2 and 4 unlocked. You can verify if pages 1, 2 or 4 are locked using the “MAIN MENU” readout and selecting the “READ” button. The Mitsubishi 4D 60 and Nissan 4D 60 chips are ideal for this purpose but other types of 4D 60 transponders may work if this rule is followed.

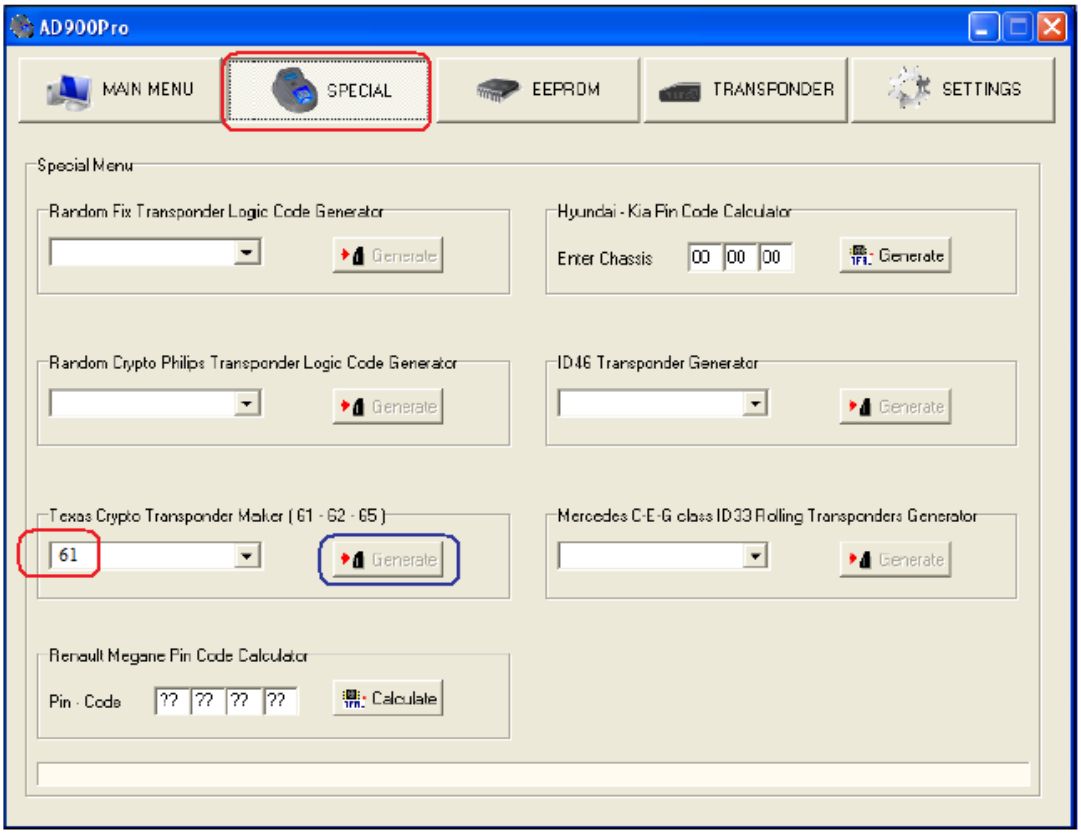
The 4D “61” transponder is used for Mitsubishi “N” or “DOT” keys only. The 4D “61” transponder works in place of the all Mitsubishi ”No DOT” or “R” stamped 4D 60 transponders. Example part #’s of 4D 61 keys would be the STRATTEC 692564 and 5907793. A converted 4D 60 to a 4D 61 transponder can be changed again as the pages do not lock. This application is extremely useful as it allows the conversion of the old “R’ keys to be used as “N” keys eliminating any old “R” key stock.

The 4D 62 transponder is used for Subaru applications only. North American Subaru models are compatible with the Nissan 4D 60 transponder as they will substitute for the 4D 62. Example part # of a Subaru 4D 62 key would be a JMA TP28SUB2P. Once a 4D 60 transponder is converted to a 4D 62, it CANNOT be changed as page 1 will lock.

ADS-910 PC Mode shown

SPECIAL FUNCTION

#1 Select "Special" from the main menu.
#2 Texas Crypto Transponder Maker (61-62-65)
#3 Select a 61 or 62 reading from the tool bar
#4 Insert a 4D 60 transponder and press "Generate"
#5 The chip is now encoded as a Mitsubishi 4D 61 or Subaru 4D 62

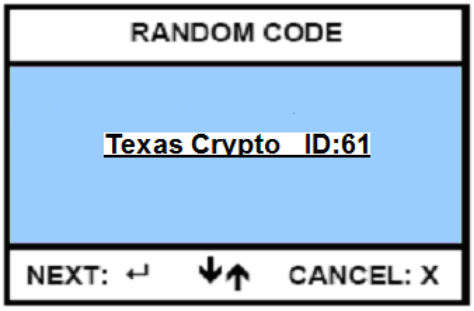


ADS-910 Standalone Mode

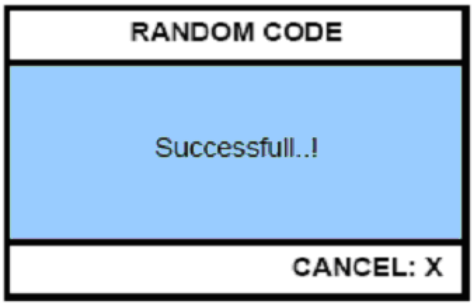
Texas Crypto 61-62-65 Generator

Procedure

A. Ensure > is aligned with **Crypto Gener.**
B. Press ↵
C. Using the ↓↑ select type of transponder logic.



D. Place **a Tex 4D 60** transponder into the reading area.
E. Press ↵



F. The transponder can now be programmed into a vehicle.

For use with the AD900Pro “Transponder Specialist” software

Part # ADS-914

Converting a new Philips PCF7936 to “Chrysler “S”/”POD”, Mitsubishi CAN “A” and GM Circle + applications.

General rules to follow:

Before any alteration, a virgin Philips PCF7936 transponder will work for all Nissan/Infiniti, Honda/Acura, Kia/Hyundai (keyed ignition) and Suzuki (Canada) Philips 46 applications. It is a multi use transponder that is set in the Password Mode when new and will change to the “Unknown mode when used”.

It is ideal to start with a new Philips PCF7936 then convert it to Crypto mode when required as a new Philips PCF7936 covers 3 popular manufacturer transponders before alteration. If you need to change the transponder to Chrysler, GM or Mitsubishi it is easy to do as you are changing it to Crypto Mode. Once you convert a Philips PCF7936 to the Crypto Mode you cannot change it back to Password Mode. You can convert a Crypto Mode transponder to another type of Crypto Mode transponder if required.

If you plan to change a new Philips PCF7936 transponder to a Chrysler, GM or Mitsubishi you must have 1 new un-programmed key to work from per manufacturer or have the data logged in a bin. file for later use.

Follow the instructions below EXACTLY as they are written or you may lock a transponder rendering it useless!!

Password Philips PCF7936 transponder to Chrysler 46 Crypto transponder – Method #1

#1 Enter the HI-Tag Philips 46 screen and read a NEW un-programmed Chrysler “S” key under the “Crypto” mode.

#2 Remove the key and place a new Philips PCF7936 transponder in the AD900.

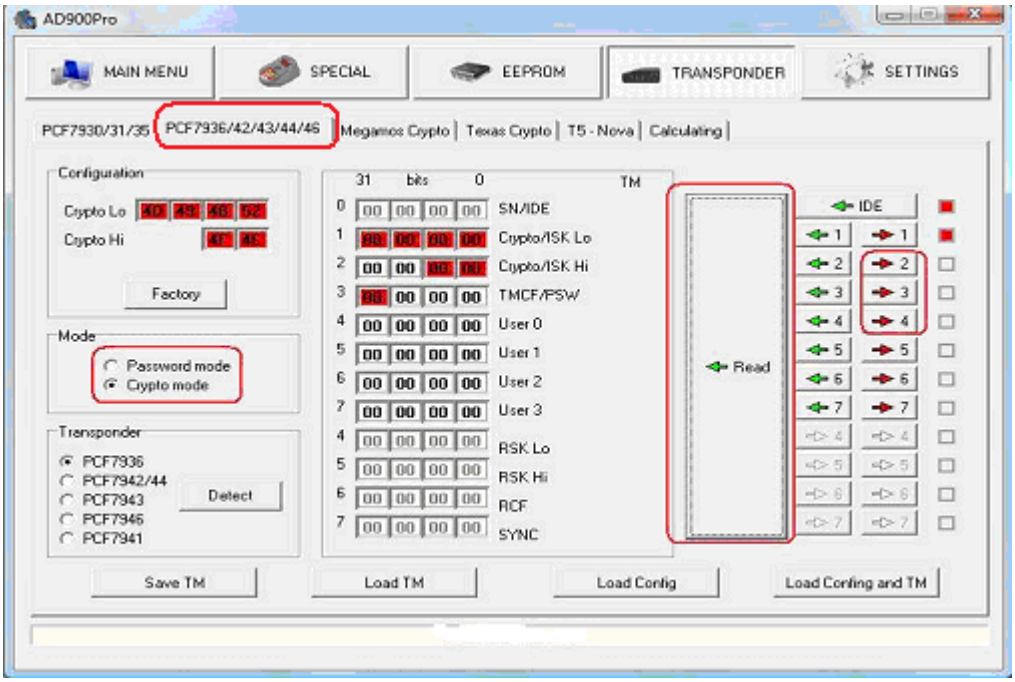
#3 Change the Crypto mode to the Password mode.

#4 Select line 4 by pressing the red arrow using the password mode.

#5 Select line 2 by pressing the red arrow using the password mode.

#6 Select line 3 by pressing the red arrow using the password mode.

#7 Go to the main menu screen and read the key; it is now in Crypto mode and will work for Chrysler 46 applications.



Password Philips PCF7936 to Chrysler 46 Crypto transponder – Method #2

#1 Go to the “TRANSPONDER Generator” Selection under the “Special” heading.

#2 Select Chrysler 46

#3 Insert a new Philips PCF7936 transponder into the AD900

#4 Press the enter button and it will convert the chip to a Chrysler 46

Password Philips PCF7936 to GM Circle + Crypto transponder

#1 Enter the HI-Tag Philips 46 screen and read a NEW un-programmed GM Circle + key under the “Crypto” mode.

#2 Remove the key and place a new Philips PCF7936 transponder in the AD900.

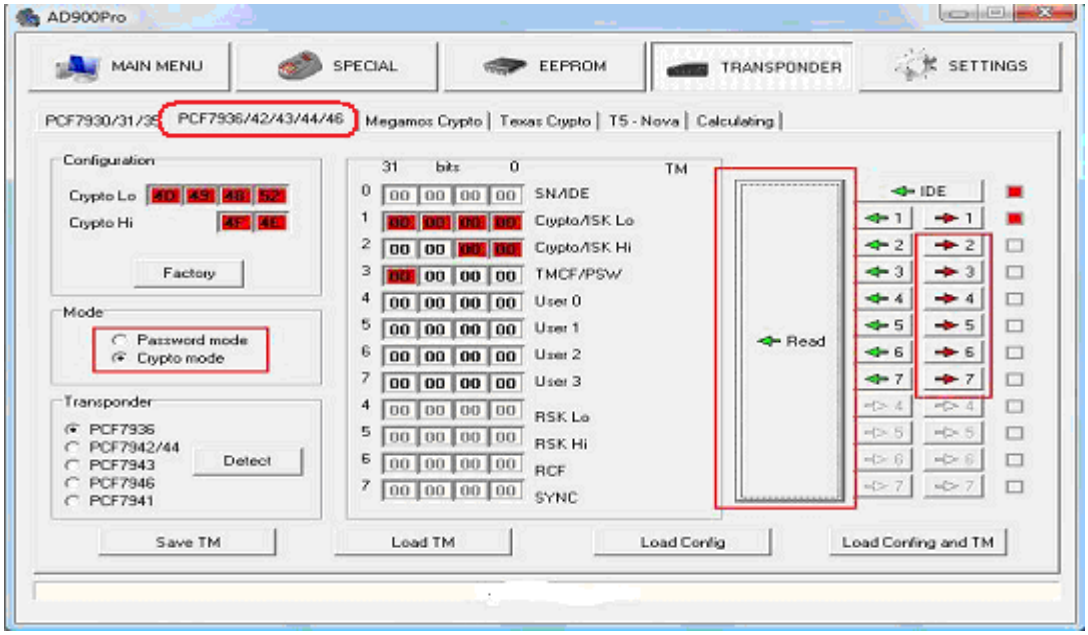
#3 Change the Crypto mode to the Password mode.

#4 Select line 4 by pressing the red arrow using the password mode.

#5 Select line 2 by pressing the red arrow using the password mode.

#6 Select line 3 by pressing the red arrow using the password mode.

#7 Go to the main menu screen and read the key, it is now in Crypto mode and will work for GM Circle + applications.



Password Philips PCF7936 to Mitsubishi “A” Crypto transponder

#1 Enter the HI-Tag Philips 46 screen and read a NEW un-programmed Mitsubishi Remote head key under the “Crypto” mode.

#2 Remove the key and place a new Philips PCF7936 transponder in the AD900.

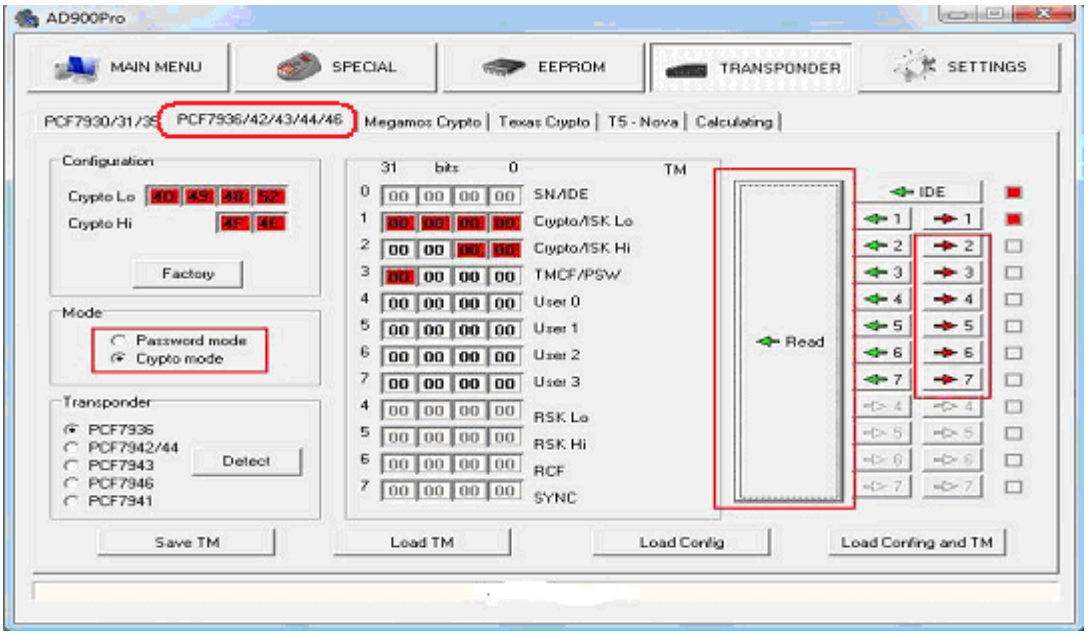
#3 Change the Crypto mode to the Password mode.

#4 Select line 4 by pressing the red arrow using the password mode.

#5 Select line 2 by pressing the red arrow using the password mode.

#6 Select line 3 by pressing the red arrow using the password mode.

#7 Go to the main menu screen and read the key; it is now in Crypto mode and will work for Mitsubishi CAN applications.



Crypto Chrysler 46 transponder to Crypto GM circle + 46 transponder

#1 Enter the HI-Tag Philips 46 screen and read a NEW un-programmed GM circle + key/chip under the “Crypto” mode.

#2 Remove the key and place a new Chrysler 46 key/chip in the AD900.

#3 Stay in Crypto mode

#4 Copy pages 1 to 7 one at a time by pressing the red arrow next to each page.

#5 The key is now converted and will work for GM circle + 46 chip/keys.

Crypto GM circle + 46 transponder to Chrysler 46 transponder

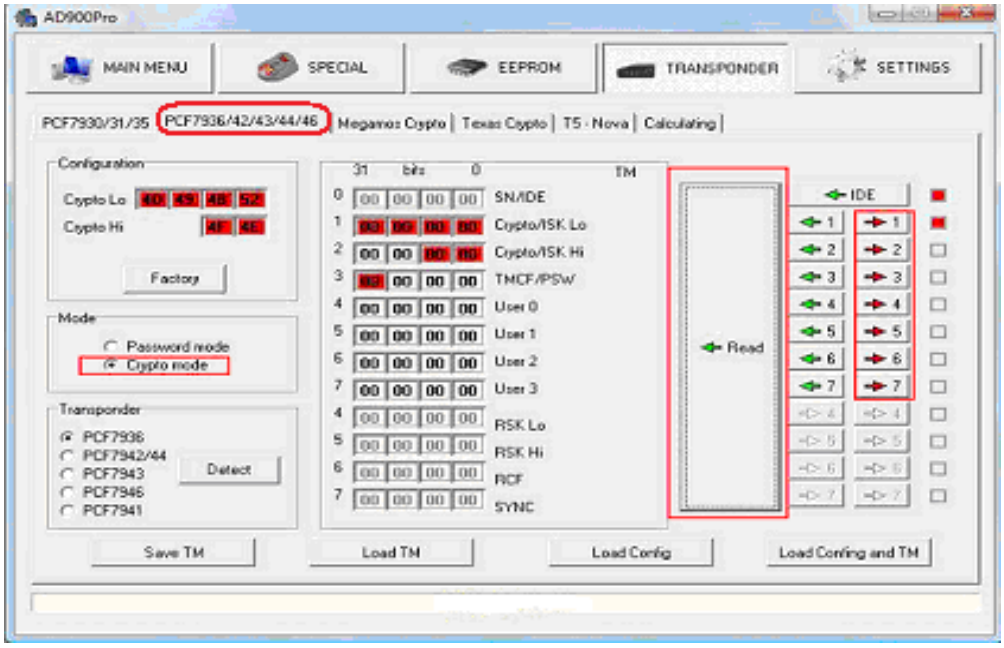
#1 Enter the HI-Tag Philips 46 screen and read a NEW un-programmed Chrysler 46 key under the “Crypto” mode.

#2 Remove the key and place a new GM circle + key key/chip in the AD900.

#3 Stay in Crypto mode

#4 Copy pages 1 to 7 one at a time by pressing the red arrow next to each page.

#5 The key is now converted and will work for Chrysler 46 keys.



Crypto Mitsubishi “A” Philips 46 transponder to Crypto Chrysler 46 transponder

#1 Enter the HI-Tag Philips 46 screen and read a NEW un-programmed Chrysler “S” key under the “Crypto” mode.

#2 Remove the key and place a new Mitsubishi “A” chip in the AD900.

#3 Stay in Crypto mode

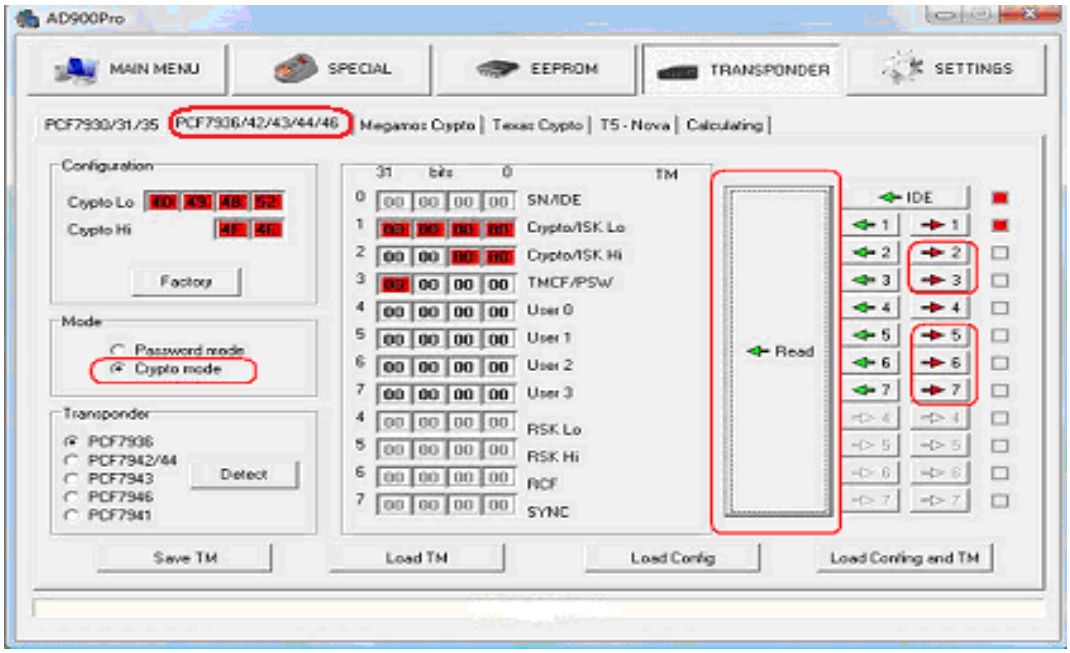
#4 Select line 2 by pressing the red arrow in Crypto mode.

#5 Select line 3 by pressing the red arrow in Crypto mode.

#6 Select line 5 by pressing the red arrow in Crypto mode.
.
#7 Select line 6 by pressing the red arrow in Crypto mode.

#8 Select line 7 by pressing the red arrow in Crypto mode.

#9 The key is ready for use on Chrysler 46 applications.



Crypto Mitsubishi “A” Philips 46 transponder to Crypto GM circle + transponder

#1 Enter the HI-Tag Philips 46 screen and read a NEW un-programmed GM circle + key under the “Crypto” mode.

#2 Remove the key and place a new Mitsubishi “A” chip in the AD900.

#3 Stay in Crypto mode

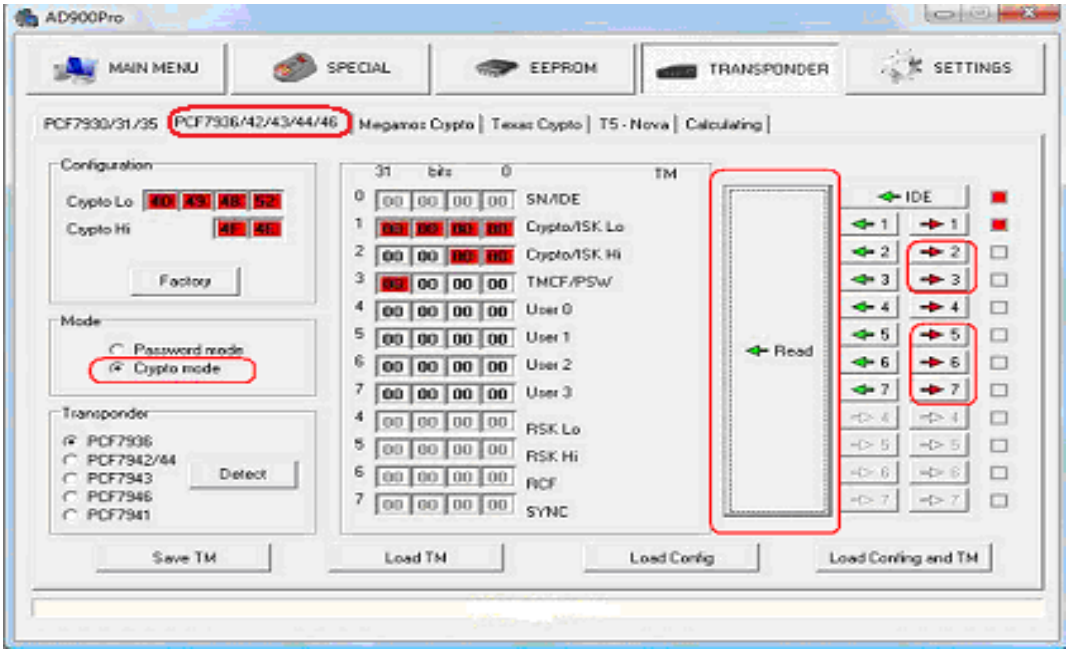
#4 Select line 2 by pressing the red arrow in Crypto mode.

#5 Select line 3 by pressing the red arrow in Crypto mode.

#6 Select line 5 by pressing the red arrow in Crypto mode.
.
#7 Select line 6 by pressing the red arrow in Crypto mode.

#8 Select line 7 by pressing the red arrow in Crypto mode.

#9 The key is ready for use on GM circle + applications.



Converting GM PK3+ Megamos 48 transponders to VW/Isuzu/Jaguar Megamos 48 transponders or vice-versa

GM PK3+ and VW Megamos 48 transponders are configured differently so you cannot' interchange them.

If you are starting with a VW transponder you must make sure it is new or unlocked. If the VW transponder is a Magic I type and is used, it cannot be reset. If the VW transponder is a Magic II type you can reset it with the AD900.

If you are starting with a PK3+ transponder it can be used if the transponder was used or is new. PK3+ transponders do not lock when used on GM applications so all the PK3+ transponders can be converted. All PK3+ transponders are the Magic II type.

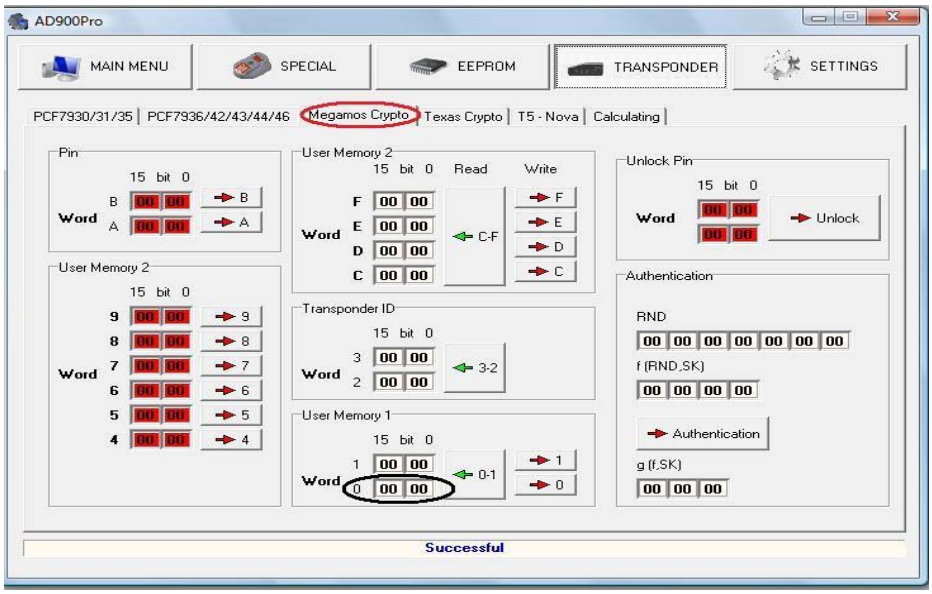
Under the "User Memory 1" selection you will need to alter both boxes under "Page 0"

A PK3+ transponder will display 04 11 on "Page 0".

A VW transponder will display 87 65 on "Page 0".

All you must do is change the above information in the boxes on "Page 0" and write to the transponder by pressing the red "0" arrow.

You can change page 0 as much as possible as the Megamos 48 transponder can be re-edited infinitely.



Important Cloning Notes Regarding Unlocking ILCO/SILCA 4C and 4D Functions

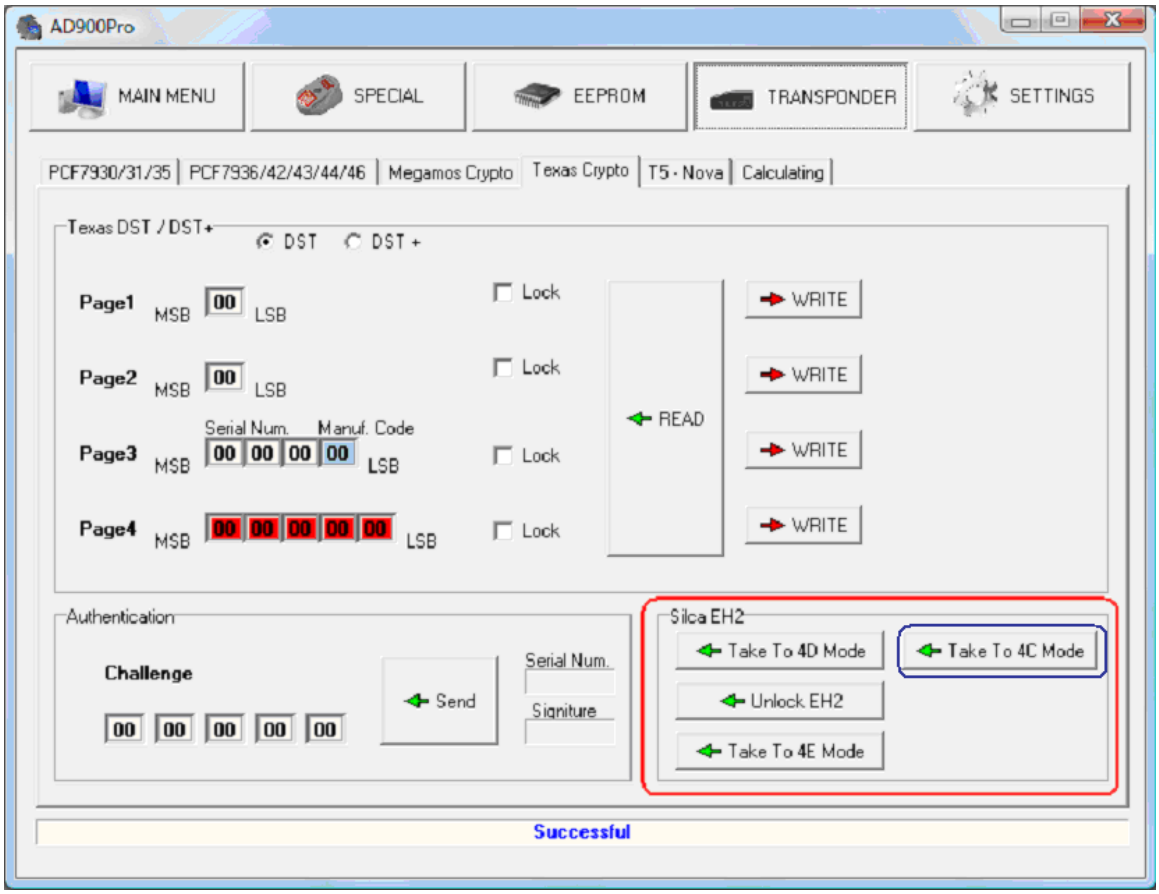
The EH3 key can clone 4C and 4D transponder keys. This design uses a modular system where the same type of head is used and then is attached to a key post with the correct blade required. Keys are roughly the size of a standard H72 type of key.

The ILCO EH3 key can clone 4C and 4D values using the same key. When the keys are new they are set in the blank “4C mode”. In the “4C mode” you can clone to a 4C value as many times as you like.

If you require cloning the key to a 4D value you can clone to as many different types of 4D values as you would like. Normally once you clone an EH3 key to a 4D value you cannot clone the key back to a 4C value, as you will get a writing error. From this point the key can only be used to clone to a 4D value.

Using the AD900 ADS-914 software you can change the key back to the factory “4C Mode”. You must select “Texas Crypto” from the “TRANSPONDER” menu. Once set back to “4C Mode” the key is configured as when it was new. You are now able to clone a 4C value to it once again.

Note: EH2 keys are compatible with EH3, but have been discontinued.



North American Cloning Reference Chart

12/06/11

Many types of keys are compatible with each type of vehicle. The original transponder type from the key that is being cloned from is listed under each model. Listed below is the software part # required to clone each type of key.

ADS905—Copying TEXAS 4C (JMA TPX1*) – Can be cloned using the AD900 in standalone mode.

ADS906—Copying TEXAS CRYPTO 4C (Bianchi TK24**/TK25*/JET SCH1**) – Can be cloned using the AD900 in standalone mode.

ADS906—Copying TEXAS CRYPTO 4D (ILCO EH2***/EH3***) – Can be cloned using an Internet connection with PC software or standalone using the AD980 module

ADS907—Copying TEXAS CRYPTO 4D (JMA TPX2*) – Can be cloned using an Internet connection with PC software or standalone using the AD980 module

ADS916—Copying TEXAS CRYPTO 4D (BIANCHI TK40**/JET SCH3**) – Internet connection and PC software required for cloning.

ADS917—Copying ID46 Hitag2 Internet-Module (BIANCHI TK60*) – Internet connection and PC software required to clone TK60 keys

ADS920—Copying ID46 Hitag2 Internet-Module (JMA TPX3*/TPX4*) – Internet connection and PC software required to clone TPX3/TPX4 keys

* Battery less cloneable key
** 1st generation battery powered and 2nd generation battery less cloneable key.
2nd generation keys will be produced from November 16th 2011 on up.
*** Battery powered cloneable key

Listed below are standard keys that can be cloned to a T5 chip with the base software and do not require a software purchase. Keys can be cloned with the PC software or standalone.

Temic 11, 12, 14
Megamos 13
20 – T5
Philips 33 (Mazda 626)
Philips 40 (Cadillac Catera)
Philips 41* (Nissan/Infiniti*)

*The Philips 41 chip was used on the 99 Nissan Maxima and Infiniti I30. You cannot clone directly to a T5 chip. You must read the data from the 41 chip, type the data in manually under Nissan Philips 33 and then clone to a T5.

T2/T5 cloning notes

All T2/T5 cloneable transponder keys are infinitely re-useable.

Keys do not contain a battery.

*Ilco/Silca ESH2/EK and EH3/EK3 4C/4D cloning notes

Ilco/Silca ESH2/EH3 keys can clone 4C and 4D transponders using one key.

Keys are re-useable infinitely. Keys contain a serviceable battery

*Includes Hillman packaged versions

JMA TPX1/TPX2 4C and 4D cloning notes

TPX1 keys can be cloned an infinite amount of times, as they do not lock.

TPX2 keys are only cloneable once and then the transponder will lock.

Keys do not contain a battery.

*1st generation Bianchi 4C and 4D cloning notes

All Bianchi/Jet/Strattec 4C and 4D keys can be cloned an infinite amount of times as they do not lock.

Keys contain a sealed PCB using a non-serviceable battery.

*Includes HYKO packaged versions
*Includes Jet branded versions
*Includes Strattec branded versions

*2nd generation Bianchi 4C and 4D cloning notes

Bianchi 4C (TK24) and 4D (TK40) keys can be cloned up to 10 times. Keys contain a sealed battery less PCB.
The Bianchi 4C (TK25) key can only be cloned 1 time and contains a glass transponder instead of a PCB.

*Includes HYKO packaged versions
*Includes Jet SCH1 and SCH3 branded versions

*Bianchi TK60 Philips 46 cloning notes

Bianchi TK60 Philips 46 keys can be cloned an infinite amount of times, as they do not lock.

Keys do not contain a battery.

*Includes HYKO packaged versions

JMA TPX3/TPX4 Philips 46 cloning notes

JMA TPX3/TPX4 cloneable keys can be cloned an infinite amount of times, as they do not lock.

Keys do not contain a battery.

Vehicle Application List

Domestic Vehicles

Buick

Allure 2005-09
(CANADA)
BIANCHI = BPT04PT5
ILCO = PT04PT5
JET = B107NPHT
JMA = TP05GM37P
STRATTEC = 692138
TRANSPONDER = Megamos 13

Allure 2010
(CANADA)
BIANCHI = VX5UTK60
JMA = TPX3OP11P1
JMA = TPX4OP11P1
TRANSPONDER = Philips 46

Enclave 2007-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

LaCrosse 2005-09
BIANCHI = BPT04PT5
ILCO = PT04PT5
JET = B107NPHT
JMA = TP05GM37P
STRATTEC = 692138
TRANSPONDER = Megamos 13

LaCrosse 2010-12
BIANCHI = VX5UTK60
JMA = TPX3OP11P1
JMA = TPX4OP11P1
TRANSPONDER = Philips 46

LeSabre 2000-05
BIANCHI = BB99PT5
ILCO = B99PT5
JET = B99NPHT
JMA = TP05GM28P
STRATTEC = 692065
TRANSPONDER = Megamos 13

Lucerne 2006-11
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Park Avenue 1997-05
BIANCHI = BB97PT5
ILCO = B97PT5
JET = B97NPHT
JMA = TP05GM27P
STRATTEC = 692064
TRANSPONDER = Megamos 13

Regal 2011-12
BIANCHI = VX5UTK60
JMA = TPX3OP11P1
JMA = TPX4OP11P1
TRANSPONDER = Philips 46

Rendezvous 2002-07
BIANCHI = BB99PT5
ILCO = B99PT5
JET = B99NPHT
JMA = TP05GM28P
STRATTEC = 692065
TRANSPONDER = Megamos 13

Terraza Early 2005
BIANCHI = BPT04PT5
ILCO = PT04PT5
JET = B107NPHT
JMA = TP05GM37P
STRATTEC = 692138
TRANSPONDER = Megamos 13

Terraza 2005-07
BIANCHI = BB97PT5
ILCO = B97PT5
JET = B97NPHT
JMA = TP05GM27P
STRATTEC = 692064
TRANSPONDER = Megamos 13

Verano 2011-12
BIANCHI = VX5UTK60
JMA = TPX3OP11P1
JMA = TPX4OP11P1
TRANSPONDER = Philips 46

Cadillac

Catera 1997-01
ILCO = HU46T2
BIANCHI = BHU46
JET = T10H54NPHT
JMA = TP05OPSP
TRANSPONDER = Philips 40

CTS 2008-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Deville 2000-05
BIANCHI = BB99PT5
ILCO = B99PT5
JET = B99NPHT
JMA = TP05GM28P
STRATTEC = 692065
TRANSPONDER = Megamos 13

DTS 2006-11
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Escalade ESV/EXT 2007-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Seville 1998-04
BIANCHI = BB99PT5
ILCO = B99PT5
JET = B99NPHT
JMA = TP05GM28P
STRATTEC = 692065
TRANSPONDER = Megamos 13

SRX 2009
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

STS 2008-10
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Chevrolet

Avalanche 2007-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Camaro 2010-12
BIANCHI = VX5UTK60
JMA = TPX3OP11P1
JMA = TPX4OP11P1
TRANSPONDER = Philips 46

2011-12
Caprice PPV
BIANCHI = BHC1UTK60
JMA = TPX3OPWHP
JMA = TPX4OPWHP
TRANSPONDER = Philips 46

2012 Captiva Sport (Fleet only)
BIANCHI = DAE47UTK60
JMA = TPX3GMDAE4P1
JMA = TPX4GMDAE4P1
TRANSPONDER = Philips 46

Cobalt 2006-10
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Cruze 2011-12
BIANCHI = VX5UTK60
JMA = TPX3OP11P1
JMA = TPX4OP11P1
TRANSPONDER = Philips 46

Equinox 2007-09
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Equinox 2010-12
BIANCHI = VX5UTK60
JMA = TPX3OP11P1
JMA = TPX4OP11P1
TRANSPONDER = Philips 46

Express 2008-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

HHR 2006-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Impala 2006-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Malibu 2004-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Monte Carlo 2006-07
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Orlando 2012 (Canada)
BIANCHI = VX5UTK60
JMA = TPX3OP11P1
JMA = TPX4OP11P1
TRANSPONDER = Philips 46

Silverado 2007-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Sonic 2012
BIANCHI = VX5UTK60
JMA = TPX3OP11P1
JMA = TPX4OP11P1
TRANSPONDER = Philips 46

Suburban 2007-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Tahoe 2007-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Traverse 2009-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Uplander - Early 2005
BIANCHI = BPT04PT5
ILCO = PT04PT5
JET = B107NPHT
JMA = TP05GM37P
STRATTEC = 692138
TRANSPONDER = Megamos 13

Uplander 2005-09
BIANCHI = BB97PT5
ILCO = B97PT5
JET = B97NPHT
JMA = TP05GM27P
STRATTEC = 692064
TRANSPONDER = Megamos 13

Venture 1999-05
BIANCHI = BB97PT5
ILCO = B97PT5
JET = B97NPHT
JMA = TP05GM27P
STRATTEC = 692064
TRANSPONDER = Megamos 13

Chrysler

200 2011-12
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

300/300c 2005-07
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

300 2008-10
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

300M 1999-04
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Aspen 2007-09
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Cirrus 1999-00
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Concorde 1998-04
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Intrepid 1998-04 (CANADA)
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

LHS 1999-01
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Pacifica 2004-08
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

P.T. Cruiser 2001-05
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

P.T. Cruiser 2006-10
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

P.T. Cruiser Convert. 2006-08
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Sebring 2dr 2001-06
BIANCHI = MT11UTK40
ILCO = MIT9EK3
JET = MIT13-N-PHT
JMA = TPX2MIT18P
TRANSPONDER = Tex Inst 4D 61

Sebring Convertible/4dr 1998-06
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Sebring 4dr/Convert. 2007-10
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Stratus 4dr 1999-00 (CANADA)
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Town & Country 2001-03
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Town & Country 2004-07
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Town & Country 2008-12
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

Voyager 2001-03
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Voyager (CANADA) 2004-05
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Dodge

Avenger 2008-12
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Caliber 2007-12
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Caravan 2001-03
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Caravan 2004-07
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Caravan 2008-12
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

Challenger 2008-12
SE, R/T, SRT8
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

Charger 2005-07
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Charger 2008-10
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

Dakota 2001-04
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Dakota 2005-06
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Dakota 2007-12
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Durango 2001-03
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

**Durango* 2004
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Durango 2005-09
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Durango 2011-12
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

Intrepid 1998-04
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Journey 2009-10
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

Magnum 2005-07
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Magnum 2008-09
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

Neon 2000-05
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Nitro 2007-12
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Ram P/U 2002-05
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Ram P/U 2006-08
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Ram 1500 2009-12
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

Ram 2500/3500 2009-10
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

2011-12
Ram 2500/3500/4500/5500
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46
SM**-RP**-B884-Q**-R4^-J+-
AD9P-R4P-ZB

Sprinter 2003-06
BIANCHI = YS15TK1
JMA = TP05MEHMP2
TRANSPONDER = Temic 12

Stratus 2dr 2001-06
BIANCHI = MT11UTK40
ILCO = MIT9EK3
JET = MIT13-N-PHT
JMA = TPX2MIT18P
TRANSPONDER = Tex Inst 4D 61

Stratus 4dr 1999-06
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Ford

Contour 1997-00 (6cyl)
BIANCHI = FD20UTK24
BIANCHI = FD20UTK25
ILCO = H73EK3
JET = H73NPHT
JMA = TPX1FO16P
TRANSPONDER = Tex Inst 4C

Crown Victoria 1998-02
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Crown Victoria 2003-11
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

E-Series Van 2008-12
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Edge 2007-10
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Escape 2001-04
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO15DP
TRANSPONDER = Tex Inst 4D 60

Escape 2005-10
(Includes hybrid models)
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Excursion 2000-05
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NP
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Expedition 1997-02
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Expedition 2003-12
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Explorer Spt Trac 2001
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
(Applies to production
dates prior to 07/24/00)
TRANSPONDER = Tex Inst 4C

Explorer Spt Trac Mid 2001-05
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
(Applies to production
dates after 07/24/00)
TRANSPONDER = Tex Inst 4D 63

Explorer Spt Trac 2010
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Explorer 1998-mid 2001
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Explorer Mid 2001-2010
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

F-150 1999-03
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
LCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

F-150 Heritage Edition 2004
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

F-250 1999-00
(Under 8500 lbs GVW)
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSONDER = Tex Inst 4C

F-150 2004-10
(Includes Harley/Lightning/
Raptor models)
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

F-250 2009-10
(Includes Harley)
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

F-350/450 2008-10
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Fiesta 2011
BIANCHI = FD40UTK40
JMA = TPX2FO24P
TRANSPONDER = Tex Inst 4D 63

Five Hundred 2005-07
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Flex 2009-10
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Focus 2000-05
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO15DP
TRANSPONDER = Tex Inst 4D 60

Focus 2006-11
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Freestar 2004-07
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Freestyle 2005-08
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Fusion 2006-12
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Ford GT 2005-06
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Mustang 1996-97
(Mid year changes in 96)
BIANCHI = FD20UTK24/25
ILCO = H73EK3
JET = H73NPHT
JMA = TPX1FO16P
TRANSPONDER = Tex Inst 4C

Mustang 1996-04
(Mid year changes in 96)
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Mustang 2005-12
(Includes Shelby
GT/GT-H/GT500/GT500KR)
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Ranger 1999-00
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Ranger 2001-11
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Taurus 1996-99
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Taurus 2000-09
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Taurus SEL 2010-12
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Taurus X 2008-09
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Thunderbird 2002
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO15DP
TRANSPONDER = Tex Inst 4C

Thunderbird 2003-05
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Transit Connect 2010-12
BIANCHI = FD21UTK40
ILCO = FO21EH2
JET = H90-N-PHT
JMA = TPX2FO6P
TRANSPONDER = Tex Inst 4D 63

Windstar 1999-00
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Windstar 2001-03
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Freightliner

Sprinter 2003-06
BIANCHI = YS15TK1
JMA = TP05MEHMP2
TRANSPONDER = Temic 12

GMC

Acadia 2007-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

G 33903 2008-12 (Truck)
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Savana 2008-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Sierra 2007-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Terrain 2010-12
BIANCHI = VX5UTK60
JMA = TPX3OP11P1
JMA = TPX4OP11P1
TRANSPONDER = Philips 46

Yukon 2007-12
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Hummer

H2 2008-09
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Jeep

Cherokee 1998-01
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Commander 2006-07
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Commander 2008-10
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

Compass 2007-12
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Grand Cherokee 1998-04
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Grand Cherokee 2005-07
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Grand Cherokee 2008-12
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

Liberty 2002-04
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Liberty 2005-12
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Patriot 2007-12
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Wrangler 1998-06
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Wrangler 2007-12
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Lincoln

Aviator 2003-06
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Blackwood 2002-03
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Continental 1998-02
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

LS 2000-02
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO15DP
TRANSPONDER = Tex Inst 4D 60

LS 2003-06
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Mark LT 2006-09
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

MKS 2009
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

MKX 2007-10
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

MKZ 2007-12
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Navigator 1998-02
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Navigator 2003-12
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Towncar 1998-02
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Towncar 2003-11
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Zephyr 2006
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Mercury

Cougar 1999-02
BIANCHI = FD20UTK24
BIANCHI = FD20UTK25
ILCO = H73EK3
JET = H73NPHT
JMA = TPX1FO16P
TRANSPONDER = Tex Inst 4C

Grand Marquis 1998-02
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Grand Marquis 2003-11
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Mariner 2005-10
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Marauder 2003-04
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Milan 2006-10
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Montego 2005-07
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Monterey 2004-07
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Mountaineer 1998-mid 2001
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Mountaineer Mid 2001-10
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Mystique 1997-00 (6cyl)
BIANCHI = FD20UTK24/25
ILCO = H73EK3
JET = H73NPHT
JMA = TPX1FO16P
TRANSPONDER = Tex Inst 4C

Sable 1996-99
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Sable 2000-09
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Oldsmobile

Aurora 2001-03
BIANCHI = BB99PT5
ILCO = B99PT5
JET = B99NPHT
JMA = TP05GM28P
STRATTEC = 692065
TRANSPONDER = Megamos 13

Silhouette 1999-04
BIANCHI = BB97PT5
ILCO = B97PT5
JET = B97NPHT
JMA = TP05GM27P
STRATTEC = 692064
TRANSPONDER = Megamos 13

Panoz

AV Roadster 1997-00
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Esperante 2001-06
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Esperante 2007-10
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Plymouth

Breeze 1999-03
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Neon 2000-01
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Voyager 2001-03
BIANCHI = Y160UTK40
ILCO = Y160EK3
JET = Y160-N-PHT
JMA = TPX2CHR15P
TRANSPONDER = Tex Inst 4D 64

Pontiac

Aztek 2001-05
BIANCHI = BB99PT5
ILCO = B99PT5
JET = B99NPHT
JMA = TP05GM28P
STRATTEC = 692065
TRANSPONDER = Megamos 13

Bonneville 2000-05
BIANCHI = BB99PT5
ILCO = B99PT5
JET = B99NPHT
JMA = TP05GM28P
STRATTEC = 692065
TRANSPONDER = Megamos 13

G5 2007-10
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

G6 2005-10
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

2008-09
G8
BIANCHI = BHC1UTK60
JMA = TPX3OPWHP
JMA = TPX4OPWHP
TRANSPONDER = Philips 46

Grand Prix 1999-03
BIANCHI = BB103PT5
ILCO = B103PT5
JET = B103NPHT
JMA = TP05GM43P
STRATTEC = 692064
TRANSPONDER = Megamos 13

Grand Prix 2004-08
BIANCHI = BPT04PT5
ILCO = PT04PT5
JET = B107NPHT
JMA = TP05GM37P
STRATTEC = 692138
TRANSPONDER = Megamos 13

Montana 1999-05
BIANCHI = BB97PT5
ILCO = B97PT5
JET = B97NPHT
JMA = TP05GM27P
STRATTEC = 692064
TRANSPONDER = Megamos 13

SV6 Montana Early 2005
BIANCHI = BPT04PT5
ILCO = PT04PT5
JET = B107NPHT
JMA = TP05GM37P
STRATTEC = 692138
TRANSPONDER = Megamos 13

SV6 Montana 2005-09
BIANCHI = BB97PT5
ILCO = B97PT5
JET = B97NPHT
JMA = TP05GM27P
STRATTEC = 692064
TRANSPONDER = Megamos 13

Pursuit (CANADA) 2006-09
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Solstice 2006-10
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Torrent 2007-09
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

2009-10 Vibe
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Qvale

Mangusta 2000-01
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

Saturn

Astra 2008-09
BIANCHI = VX5UTK60
JMA = TPX3OP11P1
JMA = TPX4OP11P1
TRANSPONDER = Philips 46

Aura 2007-10
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Outlook 2007-10
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Outlook 2010
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Relay Early 2005
BIANCHI = BPT04PT5
ILCO = PT04PT5
JET = B107NPHT
JMA = TP05GM37P
STRATTEC = 692138
TRANSPONDER = Megamos 13

Relay 2005-07
BIANCHI = BB97PT5
ILCO = B97PT5
JET = B97NPHT
JMA = TP05GM27P
STRATTEC = 692064
TRANSPONDER = Megamos 13

Sky 2006-10
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

2008-10 Vue
BIANCHI = DAE47UTK60
JMA = TPX3GMDAE4P1
JMA = TPX4GMDAE4P1
TRANSPONDER = Philips 46

Sterling

Bullet 2008-09
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

Vehicle List

Foreign Vehicles

Acura

1998-03 CL 2.2/2.3/3.0
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

CSX (CANADA) 2006-08
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

EL 2001-02
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

EL 2003-05
BIANCHI = BH001T5
ILCO = HO01T5
JET = HD110NPHT
JMA = TP05HOND31P
STRATTEC = 692082
TRANSPONDER = Megamos 13

Integra 2000-01
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

MDX 2001-06
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

MDX 2007-09
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

NSX 1997-05
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

RDX 2007-09
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

RL 3.5 1996-04
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

RL 3.5 2005-09
BIANCHI = HD90UTK60
JMA = TPX3HOND21P
JMA = TPX4HOND21P
You can pop the ears off
the ignition and use this key
TRANSPONDER = Philips 46

RSX 2002-06
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

TL 2.5/3.2 1999-03
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

TL 2.5/3.2 2004-06
BIANCHI = HD90UTK60
JMA = TPX3HOND21P
JMA = TPX4HOND21P
TRANSPONDER = Philips 46

TL 2007-12
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

TSX 2004-08
BIANCHI = HD90UTK60
JMA = TPX3HOND21P
JMA = TPX4HOND21P
TRANSPONDER = Philips 46

TSX 2009-10
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

Fiat

500 2012
BIANCHI = FT22UTK60
JMA = TPX3FI16P
JMA = TPX4FI16P
TRANSPONDER = Philips 46

Honda

Accord 1998-02
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

Accord 2003-12
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

Accord Crosstour 2010-12
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

Civic 2001-02
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

Civic Hybrid 2003
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

Civic 2003-05
BIANCHI = BH001T5
ILCO = HO01T5
JET = HD110NPHT
JMA = TP05HOND31P
STRATTEC = 692082
TRANSPONDER = Megamos 13

Civic (Inc. Hybrid) 2006-12
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

CRV 2002-06
BIANCHI = BH001T5
ILCO = HO01T5
JET = HD110NPHT
JMA = TP05HOND31P
STRATTEC = 692082
TRANSPONDER = Megamos 13

CRV 2007-11
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

CRZ 2011-12
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

Element 2003-06
BIANCHI = BH001T5
ILCO = HO01T5
JET = HD110NPHT
JMA = TP05HOND31P
STRATTEC = 692082
TRANSPONDER = Megamos 13

Element 2006-11
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

Fit 2008-11
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

Insight 2000-06
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

Insight 2010-11
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

Odyssey 1998-02
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

Odyssey 2003-04
BIANCHI = BH001T5
ILCO = HO01T5
JET = HD110NPHT
JMA = TP05HOND31P
STRATTEC = 692082
TRANSPONDER = Megamos 13

Odyssey 2005-12
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

Pilot 2003-05
BIANCHI = BH001T5
ILCO = HO01T5
JET = HD110NPHT
JMA = TP05HOND31P
STRATTEC = 692082
TRANSPONDER = Megamos 13

Pilot 2005-12
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

Prelude 1997-02
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

Ridgeline 2005-11
BIANCHI = HD1UTK60
JMA = TPX3HOND31P
JMA = TPX4HOND31P
TRANSPONDER = Philips 46

S2000 2000-05
BIANCHI = BHD106PT5
HATA = HD106PT5
ILCO = HD106PT5
JET = HD106NPHT
JMA = TP05HOND21P
STRATTEC = 692057
TRANSPONDER = Megamos 13

Hyundai

Azera 2006-11
BIANCHI = TR48UTK60
JMA = TPX3TOYO36P
JMA = TPX4TOYO36P
TRANSPONDER = Philips 46

Elantra Touring 2009-11 (CANADA)
BIANCHI = TR48UTK60
JMA = TPX3TOYO36P
JMA = TPX4TOYO36P
TRANSPONDER = Philips 46

Entourage 2006-08
ILCO = HYN14REH
JMA = TPX3HY11DP1
JMA = TPX4HY11DP1

Sonata 2008-10 (CANADA)
ILCO = HYN14REH
JMA = TPX3HY11DP1
JMA = TPX4HY11DP1
TRANSPONDER = Philips 46

Tucson 2012 (CANADA)
BIANCHI = TR48UTK60
JMA = TPX3TOYO36P
JMA = TPX4TOYO36P
TRANSPONDER = Philips 46

Veracruz 2007-08 (CANADA)
ILCO = HYN14REH
JMA = TPX3HY11DP1
JMA = TPX4HY11DP1
TRANSPONDER = Philips 46

Infiniti

FX35 2003-08
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

FX45 2003-08
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

G20 2000-02
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

G35 2dr 2003-07
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

I30 1999
BIANCHI = BNSN11
ILCO = NSN11
JET = DA31NPHT
JMA = TP13DAT6P2
TRANSPONDER = Philips 41

I30 2000-04
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

I35 2000-04
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

Q45 1997-01
BIANCHI = NS34UTK24
BIANCHI = NS34UTK25
JET = INFQN45PHT
TRANSPONDER = Tex Inst 4C

QX4 1999-04
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

QX56 2004-07
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Jaguar

S Type 2000-06
BIANCHI = JA2UTK40
ILCO = FO21EH2
JET = S30FDNPHT
JMA = TPX2FO6P
TRANSPONDER = Tex Inst 4D 60

XJ 1997-99
ILCO = TBE1T5
JMA = TP05JAU1P
TRANSPONDER = Megamos 13

XJ8 Vanden Plas 2004-08
BIANCHI = JA2UTK40
ILCO = FO21EH2
JET = S30FDNPHT
JMA = TPX2FO6P
TRANSPONDER = Tex Inst 4D 60

XJR 2004-09
BIANCHI = JA2UTK40
ILCO = FO21EH2
JET = S30FDNPHT
JMA = TPX2FO6P
TRANSPONDER = Tex Inst 4D 60

XK 1997-99
ILCO = TBE1T5
JMA = TP05JAU1P
TRANSPONDER = Megamos 13

X Type 2002-06
BIANCHI = JA2UTK40
ILCO = FO21EH2
JET = S30FDNPHT
JMA = TPX2FO6P
TRANSPONDER = Tex Inst 4D 60

Kia

Amanti 2004-06
BIANCHI = TR49UTK40
ILCO = TY40EK3
JET = KK7-N-PHT
JMA = TPX2TOYO18P
TRANSPONDER = Tex Inst 4D 60

Amanti 2007-09
BIANCHI = TR49UTK60
JMA = TPX3TOYO18P
JMA = TPX4TOYO18P
TRANSPONDER = Philips 46

Borrego 2009
BIANCHI = TR48UTK60
JMA = TPX3TOYO36P
JMA = TPX4TOYO36P
TRANSPONDER = Philips 46

Borrego 2010-11 (CANADA)
BIANCHI = TR48UTK60
JMA = TPX3TOYO36P
JMA = TPX4TOYO36P
TRANSPONDER = Philips 46

Optima 2010
BIANCHI = TR48UTK60
JMA = TPX3TOYO36P
JMA = TPX4TOYO36P
TRANSPONDER = Philips 46
Rio 2010
BIANCHI = TR48UTK60
JMA = TPX3TOYO36P
JMA = TPX4TOYO36P
TRANSPONDER = Philips 46

2012 (Canada)
Rio*
BIANCHI = TR48UTK40
BIANCHI = TR48UTK100(++)
HYKO = ITOY152
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO18P
JMA = TPX2KI7P
JMA = TPX2KI9P
TRANSPONDER = Tex Inst 4D 60 (Crypto 3)
*Must clone from a non-remote key only

Sedona 2006-08 (Canada)
ILCO = HYN14REH
JMA = TPX3HY11DP1
JMA = TPX4HY11DP1
TRANSPONDER = Philips 46

Soul 2010 (CANADA)
ILCO = HYN14REH
JMA = TPX3HY11DP1
JMA = TPX4HY11DP1
TRANSPONDER = Philips 46

Spectra/Spectra 5 2004-06 (CANADA)
BIANCHI = BHY021UTK40
TRANSPONDER = 4D 60

Lexus

ES300 1998-01
BIANCHI = TR49UTK24
BIANCHI = TR49UTK25
ILCO = TOY40EK3
JET = TR49NPHT
JMA = TPX1TOYO18P
TRANSPONDER = Tex Inst 4C

ES300 2002-03
BIANCHI = TR48UTK24
BIANCHI = TR48UTK25
ILCO = TOY48EK3
JET = TR48NPHT
JMA = JMA = TPX1TOYO36P
TRANSPONDER = Tex Inst 4C

ES330 2004-06
BIANCHI = TR48UTK40
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO30P
TRANSPONDER = Tex Inst 4D 68

GS430 2001-05
BIANCHI = TR48UTK24
BIANCHI = TR48UTK25
ILCO = TOY48EK3
JET = TR48NPHT
TRANSPONDER = Tex Inst 4C

GS300 1998-05
BIANCHI = TR48UTK24
BIANCHI = TR48UTK25
ILCO = TOY48EK3
JET = TR48NPHT
JMA = JMA = TPX1TOYO36P
TRANSPONDER = Tex Inst 4C

GS400 1998-01
BIANCHI = TR48UTK24
BIANCHI = TR48UTK25
ILCO = TOY48EK3
JET = TR48NPHT
JMA = JMA = TPX1TOYO36P
TRANSPONDER = Tex Inst 4C

GX470 2003-09
BIANCHI = TR48UTK40
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO30P
TRANSPONDER = Tex Inst 4D 68

IS300 2005
BIANCHI = TR48UTK24
BIANCHI = TR48UTK25
ILCO = TOY48EK3
JET = TR48NPHT
JMA = JMA = TPX1TOYO36P
TRANSPONDER = Tex Inst 4C

LS430 2001-06
BIANCHI = TR48UTK40
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO30P
TRANSPONDER = Tex Inst 4D 68

LS400 1997
BIANCHI = TR49UTK24
BIANCHI = TR49UTK25
ILCO = TOY40EK3
JET = TR49NPHT
JMA = TPX1TOYO18P
TRANSPONDER = Tex Inst 4C

LS400 1998-00
BIANCHI = TR48UTK24
BIANCHI = TR48UTK25
ILCO = TOY48EK3
JET = TR48NPHT
JMA = JMA = TPX1TOYO36P
TRANSPONDER = Tex Inst 4C

LX470 1998-00
BIANCHI = TR49UTK24
BIANCHI = TR49UTK25
ILCO = TOY40EK3
JET = TR49NPHT
JMA = TPX1TOYO18P
TRANSPONDER = Tex Inst 4C

LX470 2001-02
BIANCHI = TR48UTK24
BIANCHI = TR48UTK25
ILCO = TOY48EK3
JET = TR48NPHT
JMA = JMA = TPX1TOYO36P
TRANSPONDER = Tex Inst 4C

LX470 2003-07
BIANCHI = TR48UTK40
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO30P
TRANSPONDER = Tex Inst 4D 68

RX300 1999-03
BIANCHI = TR48UTK24
BIANCHI = TR48UTK25
ILCO = TOY48EK3
JET = TR48NPHT
JMA = JMA = TPX1TOYO36P
TRANSPONDER = Tex Inst 4C

RX300 2004-06
BIANCHI = TR48UTK40
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO30P
TRANSPONDER = Tex Inst 4D 68

RX330 2004-06
BIANCHI = TR48UTK40
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO30P
TRANSPONDER = Tex Inst 4D 68

RX350 2007-09
BIANCHI = TR48UTK40
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO30P
TRANSPONDER = Tex Inst 4D 68

RX400(H) 2006-09
BIANCHI = TR48UTK40
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO30P
TRANSPONDER = Tex Inst 4D 68

SC300 1998-00
BIANCHI = TR49UTK24
BIANCHI = TR49UTK25
ILCO = TOY40EK3
JET = TR49NPHT
JMA = TPX1TOYO18P
TRANSPONDER = Tex Inst 4C

SC300 2002-06
BIANCHI = TR48UTK40
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO30P
TRANSPONDER = Tex Inst 4D 68

SC400 1998-00
BIANCHI = TR49UTK24
BIANCHI = TR49UTK25
ILCO = TOY40EK3
JET = TR49NPHT
JMA = TPX1TOYO18P
TRANSPONDER = Tex Inst 4C

SC400 2002-06
BIANCHI = TR48UTK40
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO30P
TRANSPONDER = Tex Inst 4D 68

SC430 1998-01
BIANCHI = TR49UTK24
BIANCHI = TR49UTK25
ILCO = TOY40EK3
JET = TR49NPHT
JMA = TPX1TOYO18P
TRANSPONDER = Tex Inst 4C

SC430 2002-09
BIANCHI = TR48UTK40
ILCO = TOY48EK3
JET = TR60-N-PHT
JMA = TPX2TOYO30P
TRANSPONDER = Tex Inst 4D 68

Mazda

626 1998-99
BIANCHI = BMAZ24RT5
ILCO = MAZ24RT5
JET = MAZ24NPHT
JMA = TP05MAZ11DP
STRATTEC = 692080
TRANSPONDER = Philips 33

B-series P/U 1999-00
BIANCHI = FD21UTK24
BIANCHI = FD21UTK25
ILCO = H72EK3
JET = H72NPHT
JMA = TPX1FO15DP
STRATTEC = 692574
TRANSPONDER = Tex Inst 4C

B-series P/U 2001-10
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

CX-7 2007-11
BIANCHI = MZ24UTK40
ILCO = MAZ24EK3
JET = MZ34-N-PHT
JMA = TPX2MAZ11DP2
TRANSPONDER = Tex Inst 4D 63

CX-9 2007-11
BIANCHI = MZ24UTK40
ILCO = MAZ24EK3
JET = MZ34-N-PHT
JMA = TPX2MAZ11DP2
TRANSPONDER = Tex Inst 4D 63

Mazda 2 2011
BIANCHI = MZ24UTK40
ILCO = MAZ24EK3
JET = MZ34-N-PHT
JMA = TPX2MAZ11DP2
TRANSPONDER = Tex Inst 4D 63

Mazda 3 2004-12
BIANCHI = MZ24UTK40
ILCO = MAZ24EK3
JET = MZ34-N-PHT
JMA = TPX2MAZ11DP2
TRANSPONDER = Tex Inst 4D 63

Mazda 5 2004-10
BIANCHI = MZ24UTK40
ILCO = MAZ24EK3
JET = MZ34-N-PHT
JMA = TPX2MAZ11DP2
TRANSPONDER = Tex Inst 4D 63

Mazda 6 2003
BIANCHI = MZ24UTK40
ILCO = MAZ24EK3
JET = MZ34-N-PHT
JMA = TPX2MAZ11DP2
(Produced from 9-23-03)
TRANSPONDER = Tex Inst 4D 63

Mazda 6/ Speed 6 2004-11
BIANCHI = MZ24UTK40
ILCO = MAZ24EK3
JET = MZ34-N-PHT
JMA = TPX2MAZ11DP2
TRANSPONDER = Tex Inst 4D 63

Miata (MX-5) 2005-11
BIANCHI = MZ24UTK40
ILCO = MAZ24EK3
JET = MZ34-N-PHT
JMA = TPX2MAZ11DP2
TRANSPONDER = Tex Inst 4D 63

RX8 2004-11
BIANCHI = MZ24UTK40
ILCO = MAZ24EK3
JET = MZ34-N-PHT
JMA = TPX2MAZ11DP2
TRANSPONDER = Tex Inst 4D 63

Tribute 2001-03
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO15DP
TRANSPONDER = Tex Inst 4D 60

Tribute 2004 (a)
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO15DP
TRANSPONDER = Tex Inst 4D 60

Tribute 2004 (b)
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Tribute 2005-11
BIANCHI = FD21UTK40
ILCO = H84EK3
JET = H90-N-PHT
JMA = TPX2FO30DP
TRANSPONDER = Tex Inst 4D 63

Mercedes

Sprinter 2003-06
BIANCHI = YS15TK1
JMA = TP05MEHMP2
TRANSPONDER = Temic 12

Mitsubishi

Diamante 2000-04
BIANCHI = MT1UTK40
ILCO = MIT8EK3
JET = MIT12-N-PHT
JMA = TPX2MIT12P
TRANSPONDER = Tex Inst 4D 60

Eclipse 2000-05
BIANCHI = MT11UTK40
ILCO = MIT9EK3
JET = MIT13-N-PHT
JMA = TPX2MIT18P
TRANSPONDER = Tex Inst 4D 60

Eclipse 2006-07
(04/01/05 to 04/01/2007 date)
BIANCHI = MT11UTK60
JMA = TPX3MIT18P
JMA = TPX4MIT18P
TRANSPONDER = Philips 46

Eclipse 2007-11
(04/01/2007 date on up)
BIANCHI = MT8SUTK60
JMA = TPX3MIT8DP1
JMA = TPX4MIT8DP1
TRANSPONDER = Philips 46

Endeavor 2004-06
BIANCHI = MT11UTK40
ILCO = MIT9EK3
JET = MIT13-N-PHT
JMA = TPX2MIT18P
TRANSPONDER = Tex Inst 4D 61

Endeavor 2007-11
BIANCHI = MT8SUTK60
JMA = TPX3MIT8DP1
JMA = TPX4MIT8DP1
TRANSPONDER = Philips 46

Galant 2000-03
BIANCHI = MT11UTK40
ILCO = MIT9EK3
JET = MIT13-N-PHT
JMA = TPX2MIT18P
TRANSPONDER = Tex Inst 4D 60

Galant 2004-05
BIANCHI = MT11UTK60
JMA = TPX3MIT18P
JMA = TPX4MIT18P
TRANSPONDER = Philips 46

Galant 2006-07
(06/01/06 to 06/01/07 date)
BIANCHI = MT11UTK60
JMA = TPX3MIT18P
JMA = TPX4MIT18P
TRANSPONDER = Philips 46

Galant 2007-11
(06/01/07 on up date)
BIANCHI = MT8SUTK60
JMA = TPX3MIT8DP1
JMA = TPX4MIT8DP1
TRANSPONDER = Philips 46

Lancer EVO 2003-06
BIANCHI = MT8SUTK40
ILCO = MIT14EK3
JMA = TPX2MIT8DP1
TRANSPONDER = Tex Inst 4D 61

Lancer 2008-11
BIANCHI = MT8SUTK60
JMA = TPX3MIT8DP1
JMA = TPX4MIT8DP1
TRANSPONDER = Philips 46

Montero 2000-06
BIANCHI = MT1UTK40
ILCO = MIT8EK3
JET = MIT12-N-PHT
JMA = TPX2MIT12P
TRANSPONDER = Tex Inst 4D 60

Montero Sport 2000-06
BIANCHI = MT1UTK40
ILCO = MIT8EK3
JET = MIT12-N-PHT
JMA = TPX2MIT12P
TRANSPONDER = Tex Inst 4D 60

Outlander 2004-11
BIANCHI = MT8SUTK60
JMA = TPX3MIT8DP1
JMA = TPX4MIT8DP1
TRANSPONDER = Philips 46

Outlander Sport 2011
BIANCHI = MT8SUTK60
JMA = TPX3MIT8DP1
JMA = TPX4MIT8DP1
TRANSPONDER = Philips 46

Raider 2006-09
BIANCHI = Y160UTK60
JMA = TPX3CHR15P
JMA = TPX4CHR15P
TRANSPONDER = Philips 46

RVR 2011
BIANCHI = MT8SUTK60
JMA = TPX3MIT8DP1
JMA = TPX4MIT8DP1
TRANSPONDER = Philips 46

Nissan

350Z 2003-09
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Altima 2000-04
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

Altima 2005-06 and 2012
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Armada 2004-12
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Cube 2009-11
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Frontier 2002-04
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

Frontier 2005-12
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Juke 2011-12
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Maxima 1999
BIANCHI = BNSN11T2
ILCO = NSN11T2
JET = DA31NPHT
JMA = TP13DAT6P2
TRANSPONDER = Philips 41

Maxima 2000-03
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

Maxima Early 2004
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

Maxima 2004-06
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Murano 2003-08
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

NV Van “SV” 2012
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Pathfinder 1999-04
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

Pathfinder 2005-12
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Quest 2004-10
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

2008-12 Rogue
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Sentra 00-06
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

Sentra 2007-12
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Titan 2004-12
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

Versa 2007-12
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

X-Terra 2002-04
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

X-Terra 2005-12
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

X-Trail (CANADA) 2005-06
BIANCHI = NS34UTK40
ILCO = NI02EK3
JET = DA34-N-PHT
JMA = TPX2DAT15P2
TRANSPONDER = Tex Inst 4D 60

Porsche

Boxster 1997-98
BIANCHI = BHU66T5
ILCO = HU66T5
JET = HU66VWNPHT
JMA = TP05HUHAAP1
TRANSPONDER = Megamos 13

Saab

97-X 2006-08
BIANCHI = BPT04PT5
ILCO = PT04PT5
JET = B107NPHT
JMA = TP05GM37P
STRATTEC = 692138
TRANSPONDER = Megamos 13

Scion

TC 2005-10
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Subaru

B9 Tribeca 2006-09
BIANCHI = SUB2UTK40
ILCO = SUB4EK3
JET = SR8-N-PHT
JMA = TPX2SUB3P2
TRANSPONDER = Tex Inst 4D 62

B9 Tribeca 2010
BIANCHI = SUB1UTK40
ILCO = SUB1EK3
JET = SR9-N-PHT
JMA = TPX2SUB2P
TRANSPONDER = Tex Inst 4D 62

Forester 2.5 XT 2005-08
BIANCHI = SUB2UTK40
ILCO = SUB4EK3
JET = SR8-N-PHT
JMA = TPX2SUB3P2
TRANSPONDER = Tex Inst 4D 62

Forester 2009-10
BIANCHI = SUB1UTK40
ILCO = SUB1EK3
JET = SR9-N-PHT
JMA = TPX2SUB2P

Impreza Sti 2005-07
BIANCHI = SUB2UTK40
ILCO = SUB4EK3
JET = SR8-N-PHT
JMA = TPX2SUB3P2
TRANSPONDER = Tex Inst 4D 62

Impreza 2008-11
BIANCHI = SUB1UTK40
ILCO = SUB1EK3
JET = SR9-N-PHT
JMA = TPX2SUB2P
TRANSPONDER = Tex Inst 4D 62

Legacy 2.5 GT 2005-09
BIANCHI = SUB2UTK40
ILCO = SUB4EK3
JET = SR8-N-PHT
JMA = TPX2SUB3P2
TRANSPONDER = Tex Inst 4D 62

Legacy 2010-11
BIANCHI = SUB1UTK40
ILCO = SUB1EK3
JET = SR9-N-PHT
JMA = TPX2SUB2P
TRANSPONDER = Tex Inst 4D 62

Outback 2005-09
2.5 XT and 3.0R
BIANCHI = SUB2UTK40
ILCO = SUB4EK3
JET = SR8-N-PHT
JMA = TPX2SUB3P2
TRANSPONDER = Tex Inst 4D 62

Outback 2010-11
BIANCHI = SUB1UTK40
ILCO = SUB1EK3
JET = SR9-N-PHT
JMA = TPX2SUB2P
TRANSPONDER = Tex Inst 4D 62

Suzuki

Equator 2009-11
(See 09 Nissan Frontier)
BIANCHI = NS34UTK60
JMA = TPX3DAT15P2
JMA = TPX4DAT15P2
TRANSPONDER = Philips 46

XL7 2007-09
BIANCHI = B106UTK60
JMA = TPX3GM37P
JMA = TPX4GM37P
TRANSPONDER = Philips 46

Toyota

4-Runner 1999-02
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

4-Runner 2003-10
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Avalon 1998-04
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

Avalon 2005-09
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Camry 1998-02
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

Camry 2003-05
(No dimple on key shaft)
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

Camry 2003-05
(Dimple on key shaft)
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Camry 2006-11
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Corolla 2005-10
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

FJ Cruiser 2008-09
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Highlander 4 cyl 2001-03
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

Highlander 6 cyl 2001-03
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

Highlander 2004-09
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Land Cruiser 1998-02
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

Land Cruiser 2003-08
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Matrix 2005-10
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

MR2 2000-05
BIANCHI = TR41UTK24
BIANCHI = TR41UTK25
JET = TOY57NPHT
JMA = TPX1TOYO20DP
TRANSPONDER = Tex Inst 4C

Prius 2001-03
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

RAV4 2000-03
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

RAV4 2004-11
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Sequoia 2001-02
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

Sequoia 2003-10
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Sienna 1998-03
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

Sienna 2004-10
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Solara 1999-03
BIANCHI = TR47UTK24
BIANCHI = TR47UTK25
ILCO = TOY43EK3
JET = TR47NPHT
JMA = TPX1TOYO15P
STRATTEC = 692911
TRANSPONDER = Tex Inst 4C

Solara 2004-08
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Tacoma 2005-09
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

2007-10 Tundra
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

2009 Venza
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

Yaris 2007-10
BIANCHI = TR47UTK40
ILCO = TOY43EK3
JET = TR51-N-PHT
JMA = TPX2TOYO15P
TRANSPONDER = Tex Inst 4D 67

VOLKSWAGEN

2004-06
Touareg
BIANCHI = V66UTK60
ILCO = HU66EH
JMA = TPX3HUHAAP1
JMA = TPX4HUHAAP1
TRANSPONDER = Philips 46

2008-12
Routan
POD KEY
BIANCHI = Y170UTK60
JMA = TPX3CHR15P1
JMA = TPX4CHR15P1
TRANSPONDER = Philips 46

Vehicle List

Motorcycles

Aprilia Motorcycle

Scarabeo 500 2003-06
JMA = TP05DCT1P
SILCA = ZD23RT5

Atlantic 500 2003-06
JMA = TP05DCT1P
SILCA = ZD23RT5

Can-Am Motorcycle

Spyder 2008-10
JMA = TP05ZA11P

Derbi Motorcycle

Boulevard 2003+
SILCA = GT15RDT5

Ducati Motorcycle

900 S4 2001+
JMA = TP05DCT1P
SILCA = KW17T5

ST4S 2002+
JMA = TP05DCT1P
SILCA = KW17T5

1000R 2002-06
JMA = TP05DCT1P
SILCA = KW17T5

1000S 2001-06
JMA = TP05DCT1P
SILCA = KW17T5

620 2001-06
JMA = TP05DCT1P
SILCA = KW17T5

749R 2003-07
JMA = TP05DCT1P
SILCA = KW17T5

749S 2003-07
JMA = TP05DCT1P
SILCA = KW17T5

999R 2003-07
JMA = TP05DCT1P
SILCA = KW17T5

999S 2003-07
JMA = TP05DCT1P
SILCA = KW17T5

1100S 2007-09
JMA = TP05DCT1P
SILCA = KW17T5

Piaggio Motorcycle

FLY150 2005+
SILCA = GT15RDT5

BV200 2005+
SILCA = GT15RDT5

BV250 2005+
SILCA = GT15RDT5

BV500 2005+
SILCA = GT15RDT5

X9 500 2005+
SILCA = GT15RDT5

X9 500 Evolution 2005+
SILCA = GT15RDT5

Vespa Motorcycle

ET4 1996+
SILCA = GT15RDT5

LX150 1996+
SILCA = GT15RDT5

LXV150 1996+
SILCA = GT15RDT5

G00 1996+
SILCA = GT15RDT5

GTS200 1996+
SILCA = GT15RDT5

Granturismo 200 1996+
SILCA = GT15RDT5

GTS 250 1996+
SILCA = GT15RDT5

GTV250 1996+
SILCA = GT15RDT5

GT60 250 1996+
SILCA = GT15RDT5

VIN TO YEAR CONVERSION CHART

10th Digit from Left is the VIN date

B	1981	V	1997
C	1982	W	1998
D	1983	X	1999
E	1984	Y	2000
F	1985	1	2001
G	1986	2	2002
H	1987	3	2003
J	1988	4	2004
K	1989	5	2005
L	1990	6	2006
M	1991	7	2007
N	1992	8	2008
P	1993	9	2009
R	1994	A	2010
S	1995	B	2011
T	1996	C	2012