

AD900Pro
TRANSPONDER
DUPLICATING SYSTEM
OPERATING MANUAL



UNLOCKING
TECHNOLOGY



**ADVANCED
DIAGNOSTICS**

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	2. COPY	a. Fixed Code Transponders b. Texas 4C c. Texas 4D d. Philips 41,42,44 & 45 Crypto
	3. WRITE	a. T5 b. Silca EH2/JMA TPX1 / Keyline TK40
	4. SPECIAL FUNCTION	a. Pin Code Generation b. 48 Unlock c. Random Code Generator d. Crypto Generator e. Blank ID46 Generator - Without PC & Internet (AD980) - With PC & Internet f. Mercedes CEG Glass ID33 g. Precoding 48 CAN Transponders
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	1. IDENTIFICATION	
	2. COPY	a. Fixed Code Transponders b. Texas 4C c. Texas 4D d. Philips ID46 Crypto 2 e. Philips 41,42,44 & 45 Crypto -TK60/TPX3/4
	3. WRITE	a. T5 b. Silca EH2/JMA TPX1 / Keyline TK40
	4. SPECIAL FUNCTION	a. Pin Code Generation b. 48 Unlock c. Random Code Generator d. Crypto Generator e. Blank ID46 Generator f. Mercedes CEG Glass D33 G.AD900 Pro - Software # ADS-925
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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.

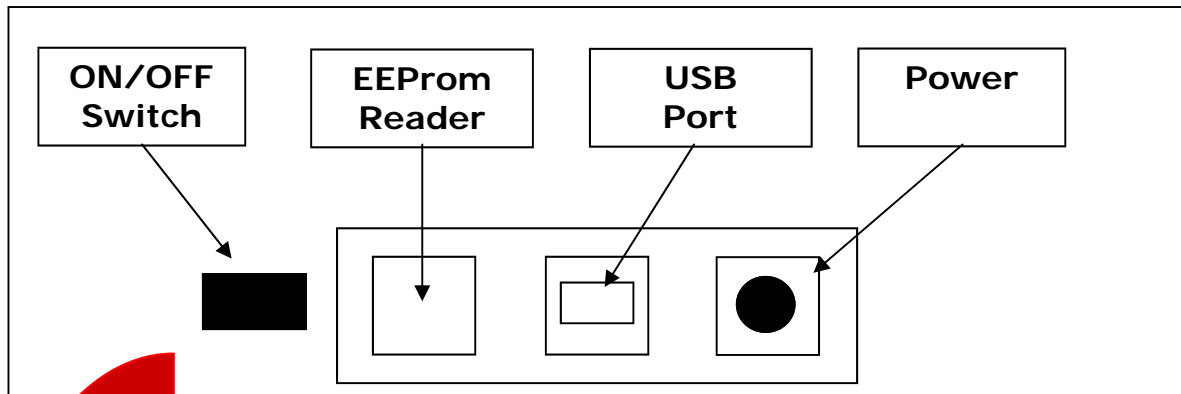
The EEPROM Reading function is an advanced function and also requires an EEPROMreader.

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

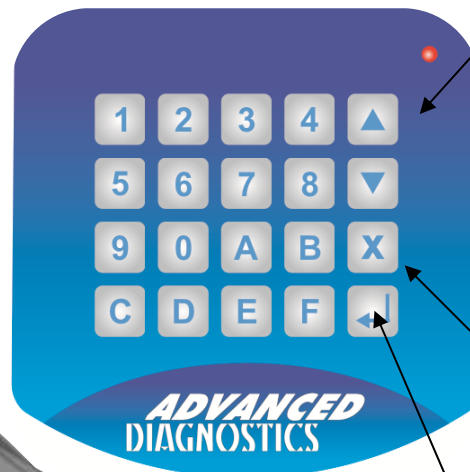
AD900Pro - INTRODUCTION

B

REAR VIEW



UP/DOWN
ARROWS



BACK

ENTER

KEY READING
AREA



AD900Pro - FEATURES



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)	ADS90/ ADS926	JMA TPX1/ China Crypto	-
	Texas Crypto 4D (SILCA EH2)	ADS906/ ADS926	Silca EH2/ China Crypto	-
	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	-	-

Standard - Supplied as part of the basic package

AD900Pro - FEATURES



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	-	-
Chrysler Remote Unlocking	RKE unlocking of K0BDT04A	ADS922	-	-

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
Transponder Logic For Philips Crypto 60 Transponders	ID60 to ID67-68-69-70	ADS926	Blank 60	AKTP7

Standard - Supplied as part of the basic package

AD900Pro - FEATURES



PRE-CODING		Part Of	Transponder	
			Type	AKL Part No
VAG Pre-coding	Prepare ID48 transponders for Audi, Skoda, Seat & VAG	ADS918	VM CAN	AKTP38 – Audi AKTP39 – VW AKTP41 – Seat AKTP42 –Skoda
Fiat Pre-Coding	Prepare transponders for Fiat Pre 06 ID48 Post 06 ID46	ADS923	48 & 46	AKTP2 (48) AKTP5 (46)
BMW Pre-Coding	Prepare ID transponders for BMW	ADS924	46	AKTP5

Standard - Supplied as part of the basic package

AD900Pro - FEATURES



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



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



EEPROM READING	Part Of	Transponder	
		Type	AKL Part No
Chevrolet Evanda-Epica (ID :60)	AD984	60	AKTP7
Ducati Motorbike Digitek (ID :12)	AD985	T5	AKTP14
Renault Espace Valeo (ID :33)	AD986	T5	AKTP14
Ford Focus-KA Delphi (ID :4C)	AD987	4C	AKTP7
Chery (ID :44)	AD988	4C	AKTP24
Aprilla Scooter Dashboard (ID :12)	AD989	T5	AKTP14
Renault Clio-3 (ID :46)	AD990	46	AKTP40
Fiat,Lancia,Alfa Romeo BSI Delphi [TP]	AD991	46	AKTP40
Kia Rio [TP]	AD992	60	AKTP7
Honda Bike 93C66[T]	AD993	46	AKTP40
Honda Bike 93C56[T]	AD994	46	AKTP40
Honda Bike 93C46[T]	AD995	46	AKTP40
Renault Kangoo2 (ID :46)	AD996	46	AKTP40
Chevrolet Captiva-Antara (ID :46)	AD997	46	AKTP40
EEProm DAF Trucks (ID :48)	AD998	48	AKTP2
EEProm Scania Trucks (ID :60)	AD999	60	AKTP7
EEProm ISUZU VDO (ID :46)	AD1000	46	AKTP40
EEProm Ford Mondeo,Focus,KA(ID :4C)	AD1001	4C	AKTP24
EEProm Suzuki Bike (ID :4C)	AD1002	4C	AKTP24
EEProm Suzuki Bike (ID :62)	AD1003	62	
EEProm Mitsubishi L200(ID :46)	AD1004	46	AKTP40
Hyundai H100-Starex	AD1005	60	AKTP7
Chrsyler-Dodge SKIM CAN	AD1006	46	AKTP40
Chrsyler-Dodge-Jeep SKIM (9S12)	AD1007	46	AKTP40
Chrsyler-Dodge-Jeep SKIM (95040)	AD1008	46	AKTP40

SECTION D

AD900Pro GENERAL OPERATION



AD900Pro - GENERAL OPERATION



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

MAIN MENU	
1. > IDENTIFICATION	
2. COPY	
3. WRITE CODE	
4. SPECIAL FUNC.	
5. TEST	
6. SETTING	
NEXT: ←	↓↑

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

- Ensure > is aligned with **IDENTIFICATION**
- Place key into the reading area
- Press ←

Examples of Identification screens

ID
8ec7162340930033 ID: 48 AUDI CAN Locked Can't be copied!
CANCEL: X

OR

ID
FFFFFFFFF3082721D722 2FFFFFFFFF ID: 45 PEUGEOT Can be copied!
CANCEL: X

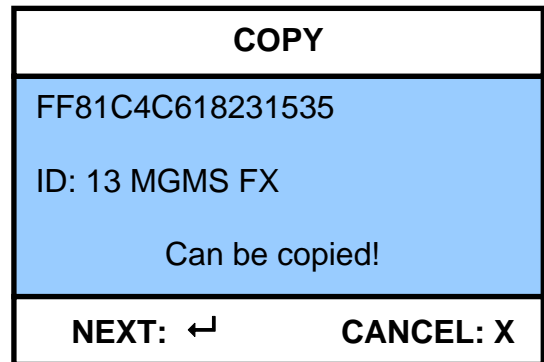
- To read more keys, press **X** to return to main menu

AD900Pro - GENERAL OPERATION



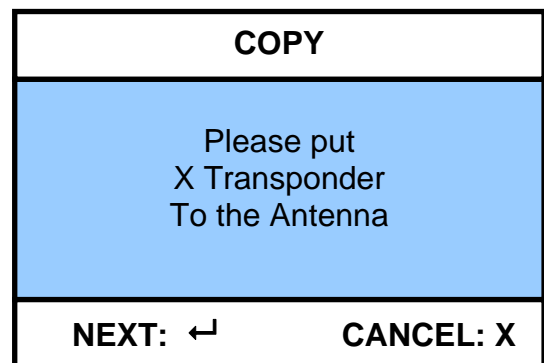
2. COPY

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.

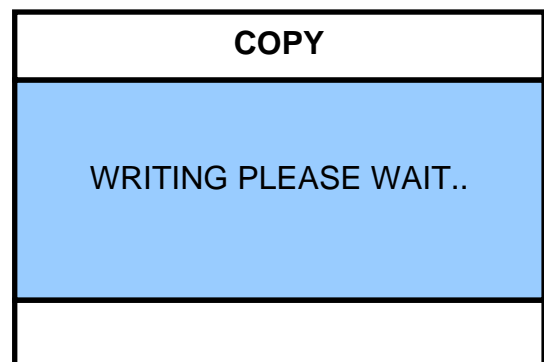


Procedure For Copying 11,12,13,33 & T5 Fixed Code Transponders

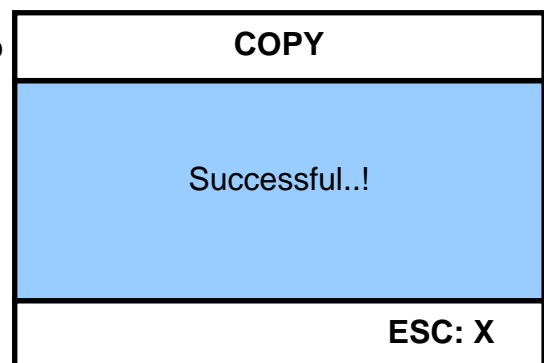
- A. Ensure > is aligned with **COPY**
- B. Place key into the reading area
- C. Press ↵
- D. The transponder is read.
- E. Remove the key
- F. Press ↵
- G. The screen will instruct what type of transponder to use.



- H. Insert blank key.
- I. Press ↵



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



AD900Pro - GENERAL OPERATION



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.

COPY	
1 - Jma TPX1 2 - Silca EH2	
SELECT:	CANCEL: X

COPY	
WRITING PLEASE WAIT..	

COPY	
Successful..!	
ESC: X	

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

AD900Pro - GENERAL OPERATION



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.

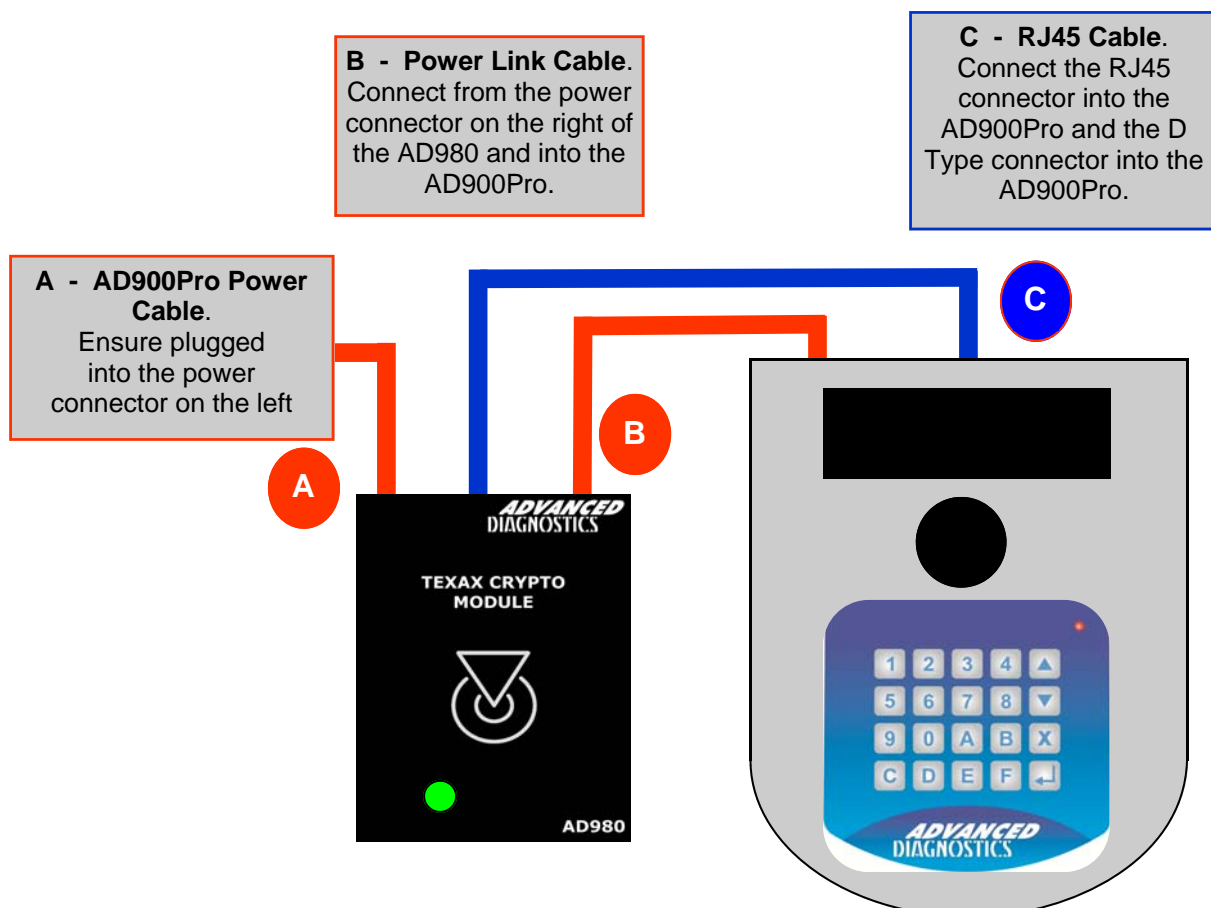
Note: Both methods of copying 4D transponders can be copied into either Silca EH2, JMA TPX2 or Keyline TK40 transponders.

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



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**

MAIN MENU	
1. IDENTIFICATION	
2. > COPY	
3. WRITE CODE	
4. SPECIAL FUNC.	
5. TEST	
6. SETTING	
NEXT: ←	↓↑

- G. The transponder detail will be displayed.
Press **NEXT** ←

COPY	
FF0002D424DA -- L - ID: 60 TEXAS CRYPTO	
EASY COPY	
NEXT: ←	CANCEL: X

- 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.

COPY	
1 - Jma TPX1 2 - Silca EH2	
SELECT:	CANCEL: X

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

COPY
WRITING PLEASE WAIT..



COPY
Successfull..!
ESC: X

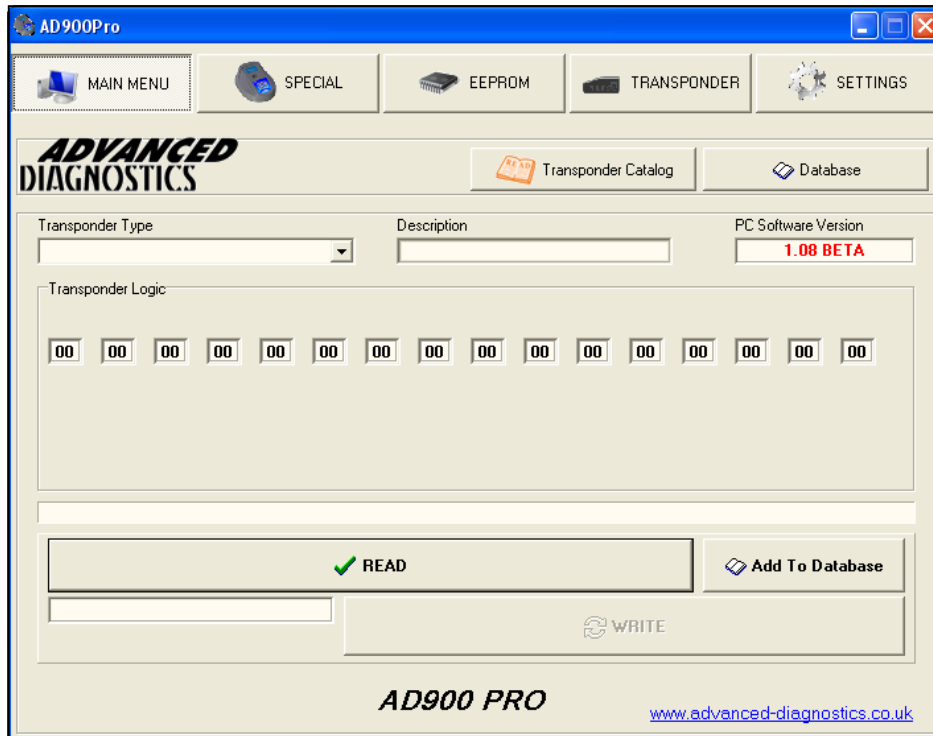
AD900Pro - PC SOFTWARE



2. WITH PC & INTERNET CONNECTION

Procedure for copying Texas 4D Crypto Transponder

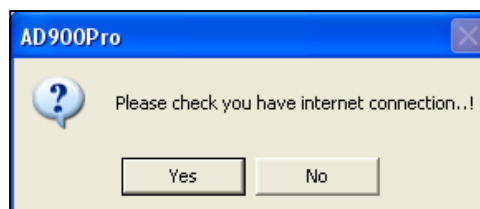
To copy this type of transponder, the PC software must be used as an internet connection is required. 4D transponders can be copied into either Silca EH2, JMA TPX2 or Keyline TK40 transponders.



- 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.

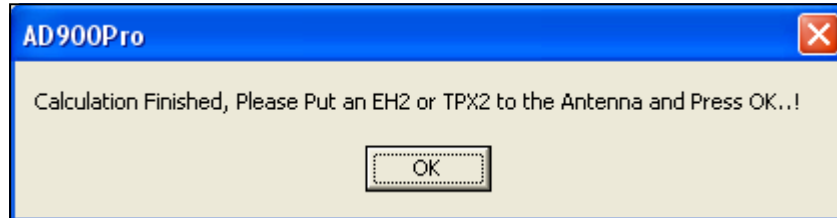


- F. Click **YES** to confirm you have internet connection (can take 15 mins)

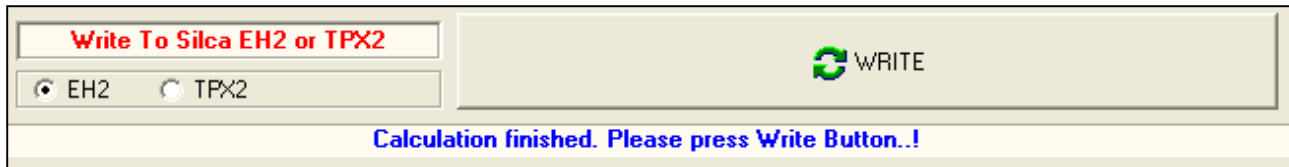


- G. When the web calculation has finished one of the following dialog box will appear, click **OK**.

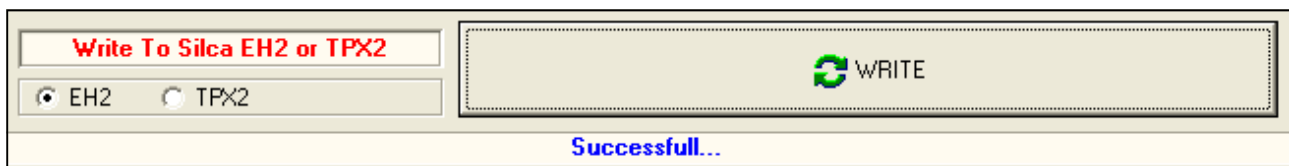
EH2 or TPX2 Selected



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

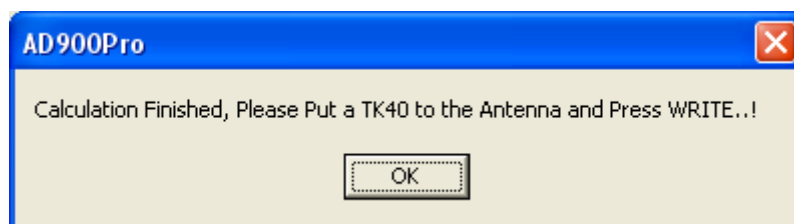


- iii) Select the appropriate transponder type to copy onto.
- iv) Next click **WRITE**.

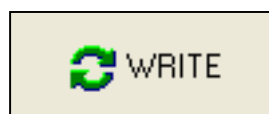


- v) The status bar will indicate if the copying process was successful.

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.

AD900Pro - GENERAL OPERATION



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 ↵

COPY	
Please put 99preCODED Transponder To the Antenna	
NEXT: ↵	CANCEL: X

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

COPY	
WRITING PLEASE WAIT..	

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

COPY	
Successful..!	
ESC: X	

AD900Pro - GENERAL OPERATION



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 ←

Write Code
ID: XX
NEXT: ← ↓↑ CANCEL: X

- 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.

Write Code
000000000000000000
ID: XX
NEXT: ← CANCEL: X



Write Code
1535237D5F000000
ID: XX
NEXT: ← CANCEL: X

- F. Press ←

COPY
Please put T5 Transponder To the Antenna
NEXT: ← CANCEL: X

- G. Press ←

COPY
WRITING PLEASE WAIT..



COPY
Successful..!
ESC: X

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

AD900Pro - GENERAL OPERATION



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 ←

Write Code	
ID: 4C	
NEXT: ←	↓↑ CANCEL: X

- E. Type in logic using the keypad.

Write Code	
00000000000000000000000000000000	
0000000	
ID:4C	TEXAS
NEXT: ←	CANCEL: X



Write Code	
7E5B801F0000000000069B	
57E0000	
ID:4C	TEXAS
NEXT: ←	CANCEL: X

- 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.

COPY	
1 - Jma TPX1	
2 - Silca EH2	
SELECT:	CANCEL: X

COPY	
WRITING PLEASE WAIT..	



COPY	
Successful..!	
ESC: X	

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

AD900Pro - GENERAL OPERATION



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

AD900Pro - GENERAL OPERATION



Renault 33 Pin

Place key into reading area and press ↵

REN. 33 PIN
PIN CODE : XXXX
CANCEL: X

45 PSA Pin

Place key into reading area and press ↵

PSA PIN
PIN CODE : XXXX
CANCEL: X

AD900Pro - GENERAL OPERATION



48 UNLOCK

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

48 UNLOCK
Successful..!
CANCEL: X

AD900Pro - GENERAL OPERATION



RANDOM CODE

Select function required by moving ↓↑

RANDOM CODE
1. > FIX CODE GENER. 2. CRYPTO GENER. 3. HITAG2 GENER. 4. MERCEDES 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

- Ensure > is aligned with **FIX CODE GENER**
- Press ←
- 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.

AD900Pro - GENERAL OPERATION

D

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.

RANDOM CODE
PHILIPS CRYPTO ID: 40
NEXT: ← ↓↑ CANCEL: X

- D. Place AKTP30 transponder into the reading area.
- E. Press ←

RANDOM CODE
Successfull..!
CANCEL: X

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

AD900Pro - GENERAL OPERATION

D

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.

RANDOM CODE
PHILIPS CRYPTO ID: 40
NEXT: ← ↓↑ CANCEL: X

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

RANDOM CODE
Successfull..!
CANCEL: X

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

AD900Pro - GENERAL OPERATION



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 ←

RANDOM CODE
6
NEXT: ← ↓↑ CANCEL: X

RANDOM CODE
Successfull..!
CANCEL: X

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

AD900Pro - GENERAL OPERATION

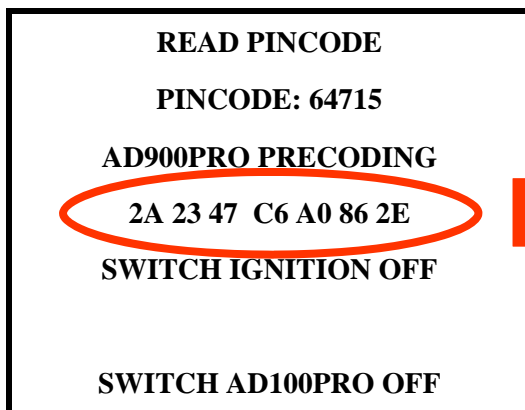


5. PRE-CODING 48 CAN

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.



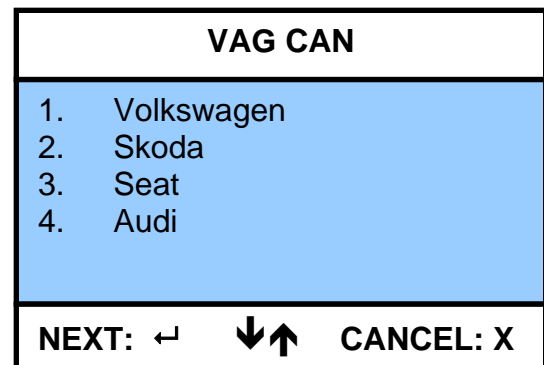
THIS IS THE 7 BYTES OF DATA REQUIRED FOR PRE-CODING THE CAN TRANSPONDERS.

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.



AD900Pro - GENERAL OPERATION



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

VAG CAN	
7 BYTE 00000000000000	
NEXT: ←	CANCEL: X



VAG CAN	
7 BYTE 2A2347C6A0862E	
NEXT: ←	CANCEL: X

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

I. Press ←

VAG CAN	
Writing Please Wait...!	
CANCEL: X	

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

VAG CAN	
Successful	
CANCEL: X	

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

AD900Pro - GENERAL OPERATION

D

- 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 STATUS** menu option from the key programming tool. The following screen will be displayed.

DECODING BLOCK	
CORRECT TRANSPONDER	Yes or No
KEY PROGRAMMED:	Yes or No
TRANSPONDER LOCKED:	Yes or No
PRESS ENTER KEY	

The status of various key information is displayed as either a **YES** or **No**. **CORRECT TRANSPONDER** 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	

AD900Pro - GENERAL OPERATION



- 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**.

VAG CAN	
7 BYTE AD100Pro CODE 0000000000000000	
NEXT: ←	CANCEL: X



VAG CAN	
7 BYTE 2A2347C6A08600	
NEXT: ←	CANCEL: X

- 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.

VAG CAN	
CONTINUE SCANNING? 00 0 OF 256	
NEXT: ←	CANCEL: X

If **ENTER** is pressed **01** will be programmed as the 7th byte etc. The count will increase to 01 of 256

Pressing the **↓↑** will allow you to move to a specific point ie 77 of 256, if required

VAG CAN	
CONTINUE SCANNING? 01 01 OF 256	
NEXT: ←	CANCEL: X

- 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.

AD900Pro - GENERAL OPERATION



- 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.

VAG CAN	
CONTINUE SCANNING? 01 01 OF 256	
NEXT: ←	CANCEL: X

- 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.

AD900Pro - GENERAL OPERATION



6. SETTING

SETTING	
1. > INFO 2. LANGUAGE 3. KEY TONE	
NEXT: ←	CANCEL: X

INFO

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

INFO	
Serial Number: XXXXXXXXXXXXXXXXXX	
Version: 1.0.4	
NEXT: ←	CANCEL: X

LANGUAGE

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

LANGUAGE	
1 - ENGLISH	
NEXT: ←	CANCEL: X

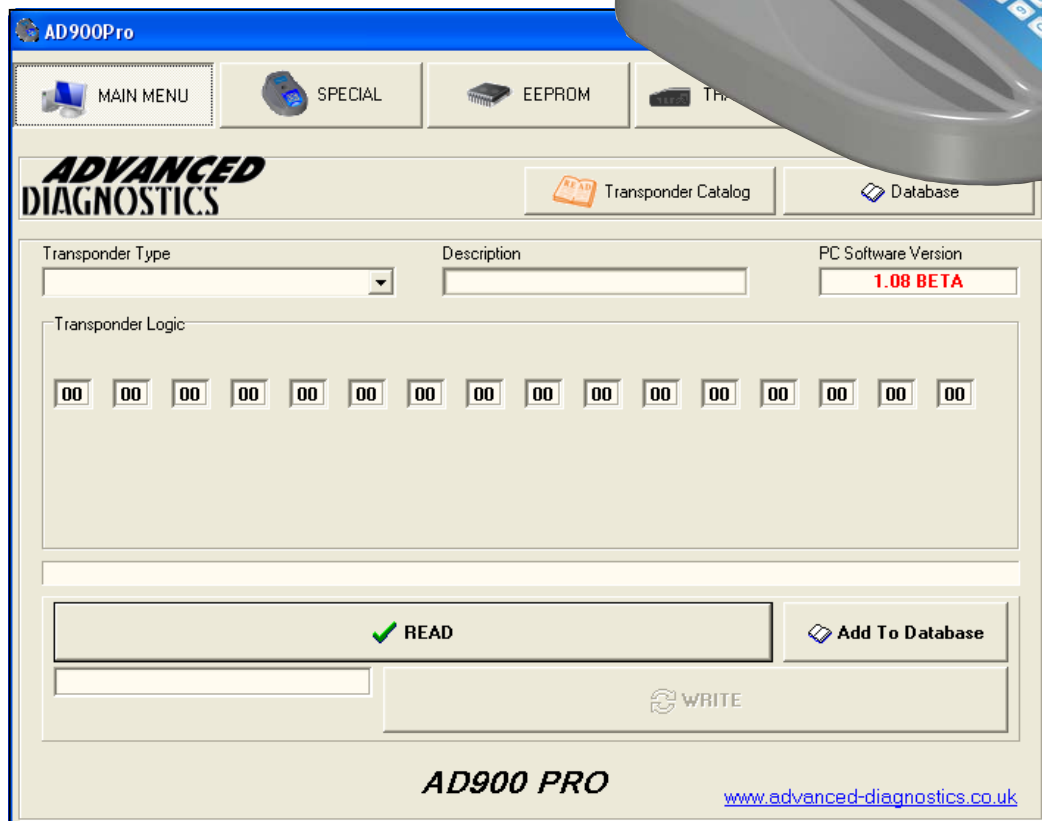
KEY TONE

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

KEY TONE	
1. > ON 2. OFF	
NEXT: ←	↓↑ CANCEL: X

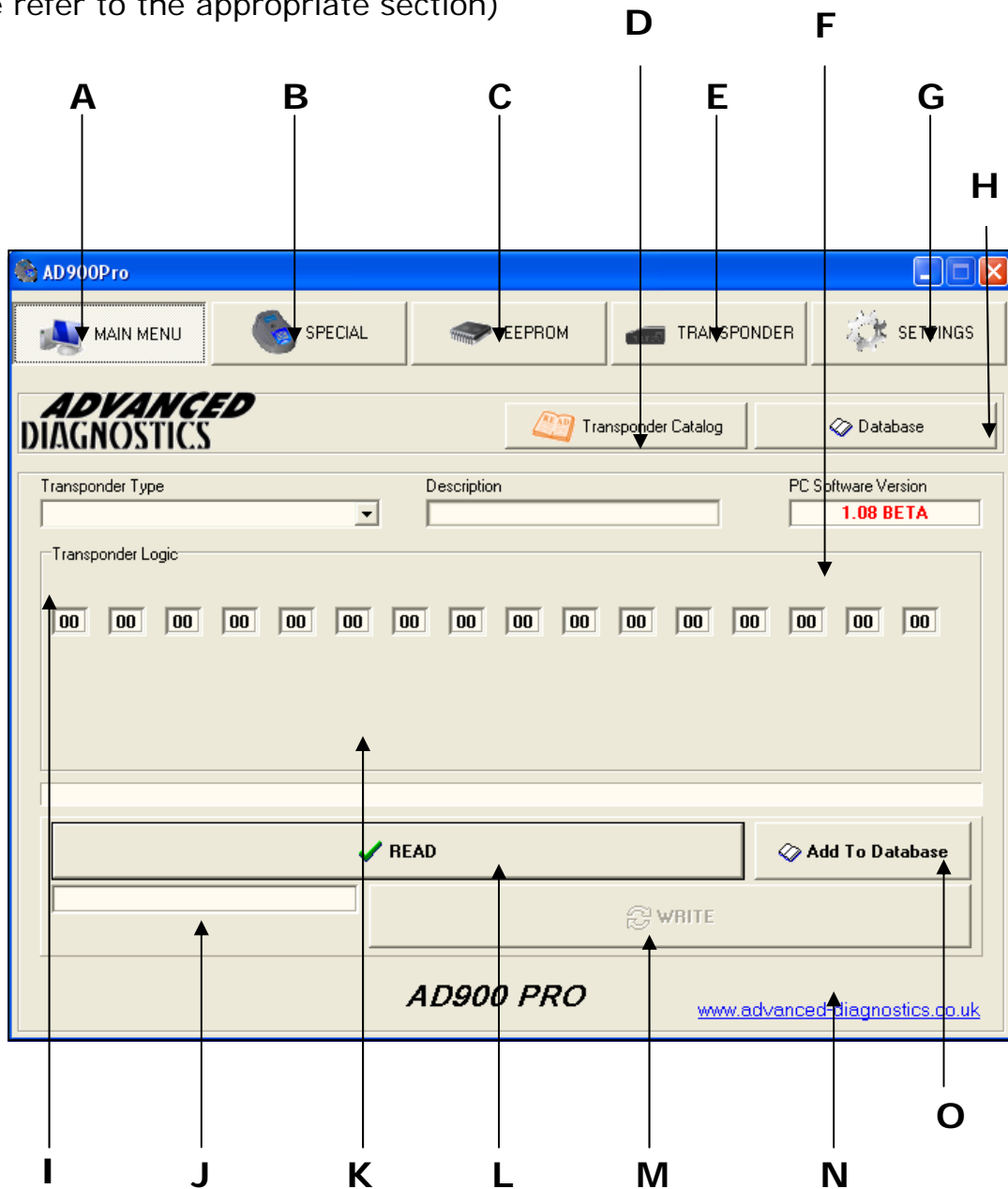
SECTION E

AD900Pro PC SOFTWARE GENERAL OPERATION



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

- Select **MAIN MENU** tab.
- Place key into the reading area.
- Click **READ**



Example of Identification screens

- Transponder type.
- Transponder logic & locked/unlocked data.
- Type of transponder to copy onto.
- Transponder can/can not be copied.

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

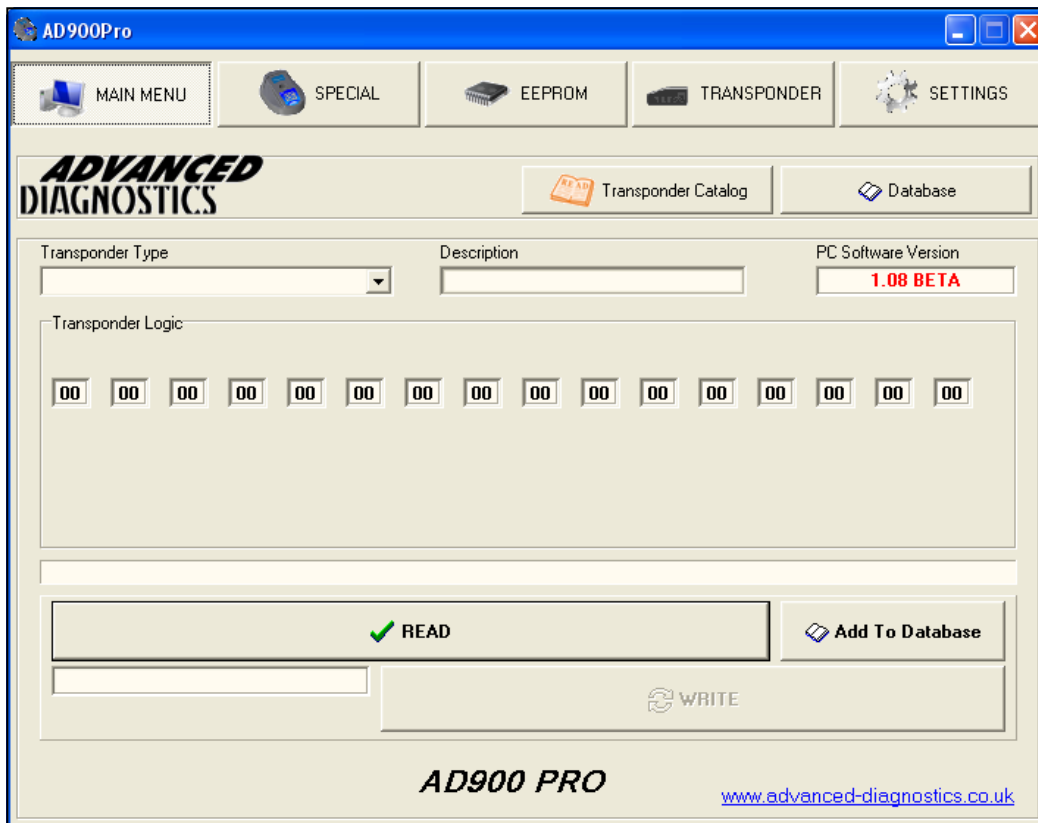
AD900Pro - PC SOFTWARE



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

- Select **MAIN MENU** tab.
- Place key into the reading area.
- Click **READ**
- Transponder detail will be displayed
- Remove key and insert blank (transponder to use is indicated)



Write To Precoded 99

- Click **WRITE**
- The status bar will indicate if copying was successful.



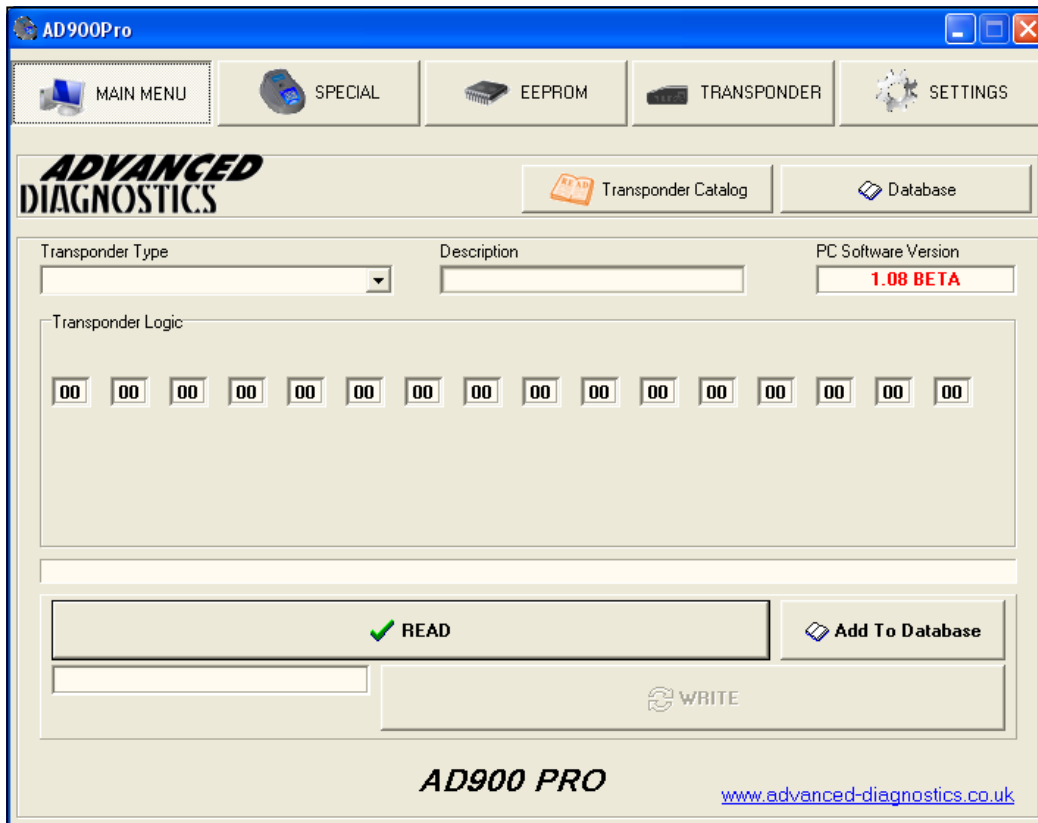
Successfull...

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

AD900Pro - PC SOFTWARE

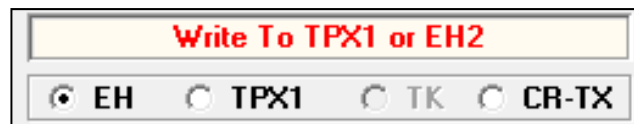


Procedure for copying Texas 4C Fixed Code Transponder

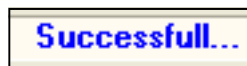


- A. Select **MAIN MENU** tab.
- B. Place key into the reading area.
- C. Click **READ**
- D. Transponder detail will be displayed
- E. Remove the key.
- F. Insert blank key
- G. Click either **EH2** or **TPX1** or **CR-TX** to select type of transponder to be copied onto.

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**.

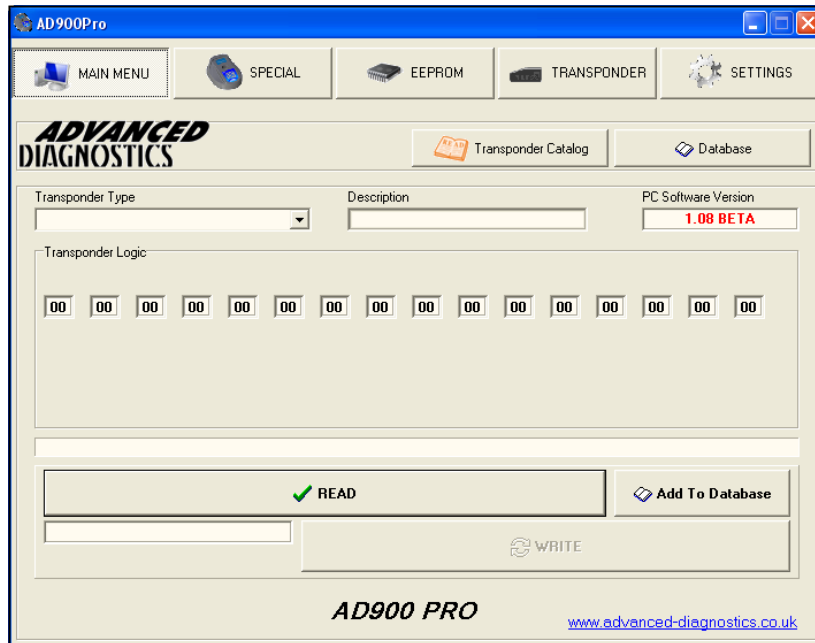
AD900Pro - PC SOFTWARE



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, Chinese CR-TX or Keyline TK40 transponders.

Note: The CR-TX transponder can be used as a Texas Fix (ID:4C) and Texas Crypto 4D but will not work as a Texas crypto 4E(ID:64). So when cloning an ID:64 please use a different transponder.



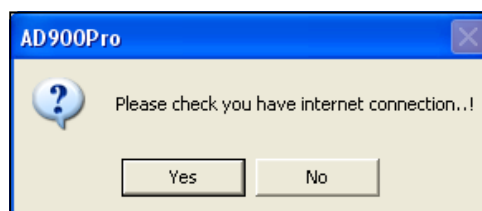
- A. Select **MAIN MENU** tab.
- B. Place key into the reading area.
- C. Click **READ**



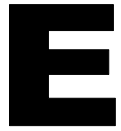
- D. Transponder detail will be displayed
- E. Click the appropriate button for the type of transponder being copied to (use TPX2/EH2 for cloning to CR-TX transponders)



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

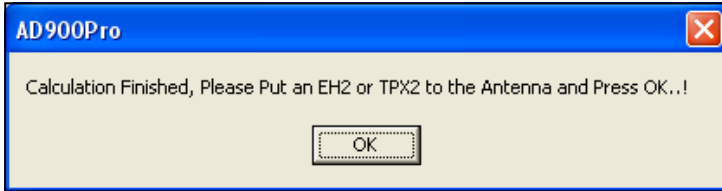


AD900Pro - PC SOFTWARE



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

EH2, TPX2 or CR-TX 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)

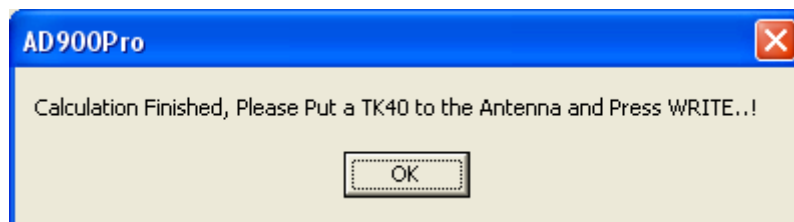
- Remove the key that has just been read.
- Place either an **EH2** or **TPX1** or **CR-TX** transponder into the key reading area.
- Select the appropriate transponder type to copy onto.
- Next click **WRITE**.



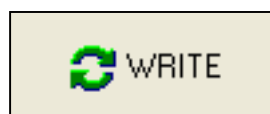
- v) The status bar will indicate if the copying process was successful.



TK40 Selected

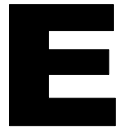


- Remove the key that has just been read.
- Place a **TK40** transponder into the key reading area.
- Next click **WRITE**.



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

AD900Pro - PC SOFTWARE



Copying Philips ID46 Crypto 2 Transponder - TK60 & TPX3/4

Copying this type of transponder, requires the PC software & an internet connection. ID46 transponders can be copied onto Keyline TK60 or JMA TPX3/4 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.

When reading the original key, the transponder can be in 1 of the following 6 types of mode, which is displayed in the description area, as follows:

CRYPTO - CDP
CRYPTO - MANCHESTER
PASSWORD - CDP
PASSWORD - MANCHESTER
UNKNOWN - CDP
UNKNOWN - MANCHESTER

Cloning of transponders, will be dependant on the mode of the original transponder by manufacturer. Please refer to the following table.

MODE	DESCRIPTION	COPY WITH AD900PRO?
CRYPTO - CDP	Blank Mitsubishi Lancer, Honda CRV etc.	No - Blank Transponder
CRYPTO - MANCHESTER	Blank Renault, Chrysler etc.	No - Blank Transponder
PASSWORD - CDP		No - Blank Transponder
PASSWORD - MANCHESTER	Blank Peugeot / Citroen, Hyundai etc.	No - Blank Transponder
UNKNOWN - CDP	Programmed Transponder	Yes
UNKNOWN - MANCHESTER	Programmed Transponder	Yes

AD900Pro Device Software Version 2.1.0 or Lower

If the original transponder is in any CDP mode then this key can't be cloned onto either a TPX3 transponder or TK60 head.

AD900Pro Device Software Version 2.1.1 and Higher (PC Software P43)

If the original transponder is in any CDP mode then this key can be cloned onto a TK60 head. Additionally for certain vehicles it can also be cloned onto a TPX4

CDP Mode.

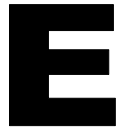
Some transponders use a Bi-Phase encoding Philips Crypto II systems. Mitsubishi, Honda or some Suzuki, use this type of encoding for binary data streams, instead of Manchester mode. Some of these Bi-Phase encoded transponders can be cloned now.

TPX4

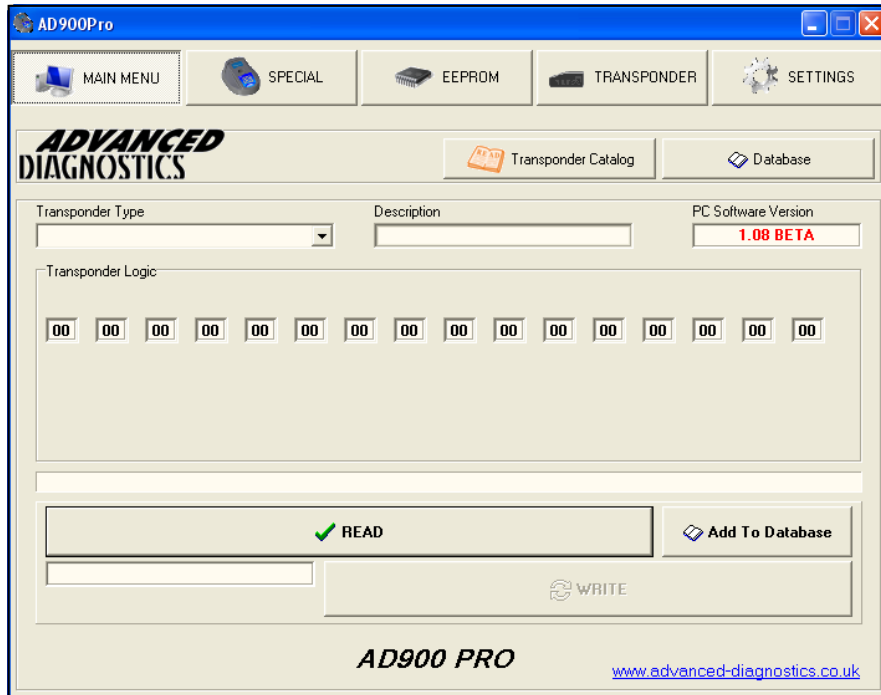
TPX4 has been introduced by JMA to replace TPX3.

TPX4 will be able to be used to clone the same TPX3 vehicle list and also, the ones that were previously not able to be cloned (mainly Opel/Vauxhall).

AD900Pro - PC SOFTWARE



Procedure for copying Philips ID46 Crypto 2 Transponder - TK60



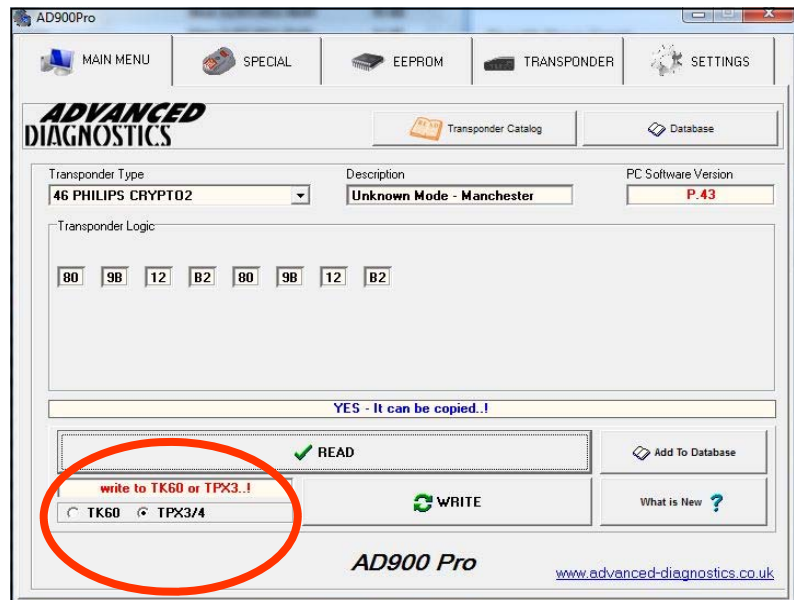
- A. Select **MAIN MENU** tab.
- B. Place key into the reading area.
- C. Click **READ**
- D. Transponder detail will be displayed



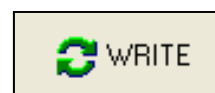
- E. Remove the key that has just been read.

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.

AD900Pro - PC SOFTWARE



- I. Click **READ**



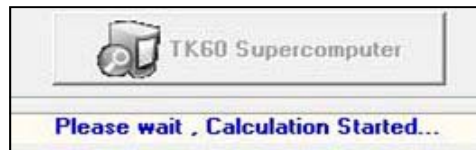
- J. Click the **TK60 Supercomputer** button.



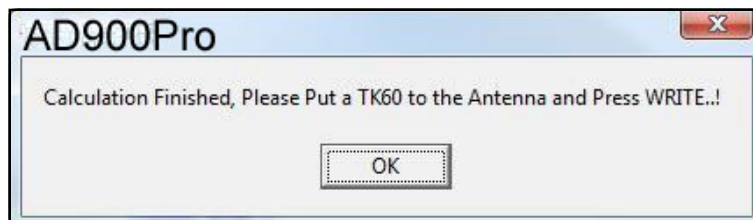
- K.



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



- L.

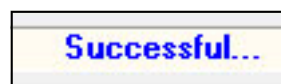


Remove the original key, place the TK60 into the reading area and Click **OK**.

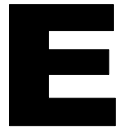
- M. Next click **WRITE**.



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



AD900Pro - PC SOFTWARE



Copying Philips ID46 Crypto 2 Transponder - TK60 & TPX3/4

Copying this type of transponder, requires the PC software & an internet connection. ID46 transponders can be copied onto Keyline TK60 or JMA TPX3/4 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.

When reading the original key, the transponder can be in 1 of the following 6 types of mode, which is displayed in the description area, as follows:

CRYPTO - CDP
CRYPTO - MANCHESTER
PASSWORD - CDP
PASSWORD - MANCHESTER
UNKNOWN - CDP
UNKNOWN - MANCHESTER

Cloning of transponders, will be dependant on the mode of the original transponder by manufacturer. Please refer to the following table.

MODE	DESCRIPTION	COPY WITH AD900PRO?
CRYPTO - CDP	Blank Mitsubishi Lancer, Honda CRV etc.	No - Blank Transponder
CRYPTO - MANCHESTER	Blank Renault, Chrysler etc.	No - Blank Transponder
PASSWORD - CDP		No - Blank Transponder
PASSWORD - MANCHESTER	Blank Peugeot / Citroen, Hyundai etc.	No - Blank Transponder
UNKNOWN - CDP	Programmed Transponder	Yes
UNKNOWN - MANCHESTER	Programmed Transponder	Yes

AD900Pro Device Software Version 2.1.0 or Lower

If the original transponder is in any CDP mode then this key can't be cloned onto either a TPX3 transponder or TK60 head.

AD900Pro Device Software Version 2.1.1 and Higher (PC Software P43)

If the original transponder is in any CDP mode then this key can be cloned onto a TK60 head. Additionally for certain vehicles it can also be cloned onto a TPX4

CDP Mode.

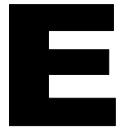
Some transponders use a Bi-Phase encoding Philips Crypto II systems. Mitsubishi, Honda or some Suzuki, use this type of encoding for binary data streams, instead of Manchester mode. Some of these Bi-Phase encoded transponders can be cloned now.

TPX4

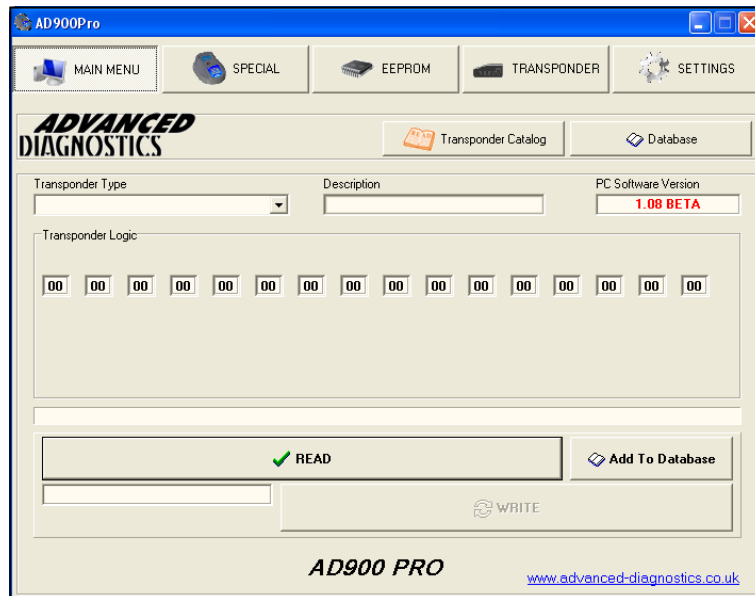
TPX4 has been introduced by JMA to replace TPX3.

TPX4 will be able to be used to clone the same TPX3 vehicle list and also, the ones that were previously not able to be cloned (mainly Opel/Vauxhall).

AD900Pro - PC SOFTWARE



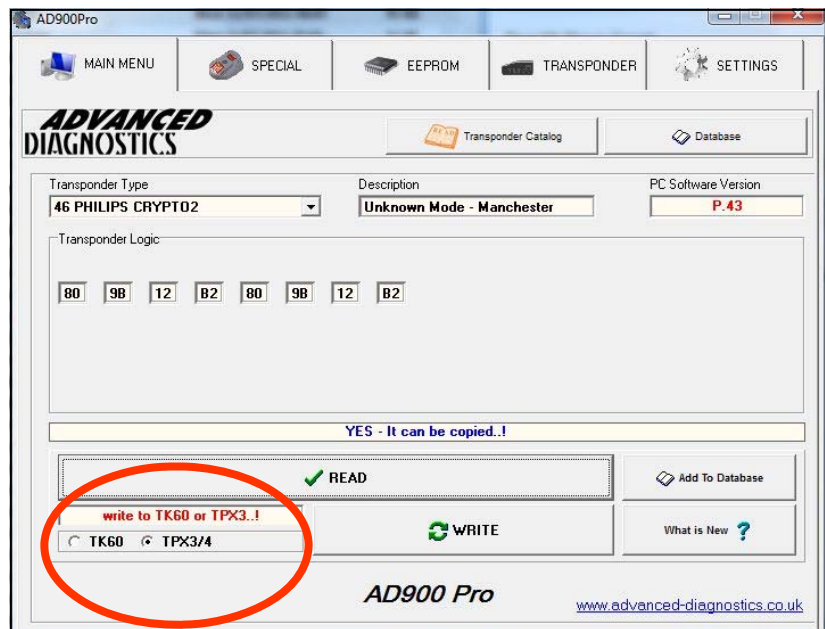
Copying Philips ID46 Crypto 2 Transponder - TPX3/4



- 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.



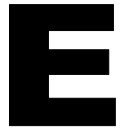
- ii) Place a **TPX3/4** transponder into the key reading area.
- iii) Select **TPX3/4** transponder type.



- F. Click **WRITE**.

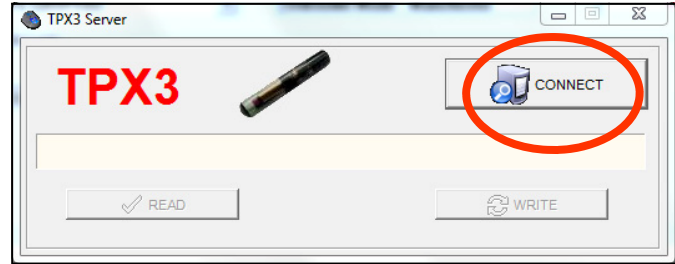


AD900Pro - PC SOFTWARE

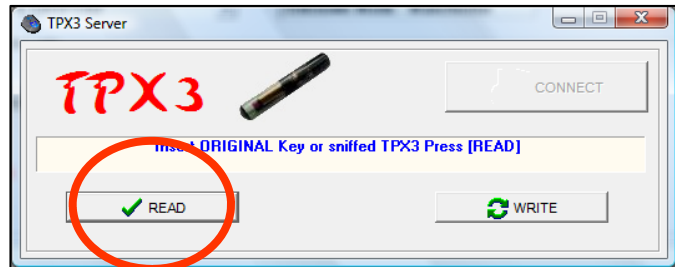


G. Click **CONNECT**

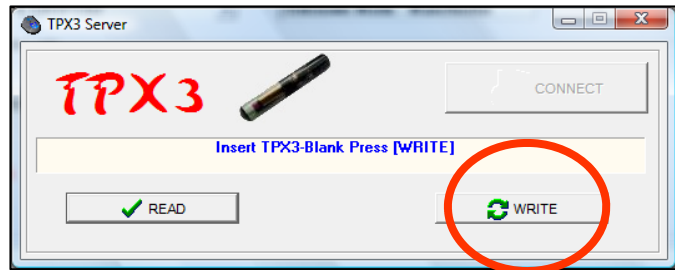
The **READ** & **WRITE** buttons will then become active.



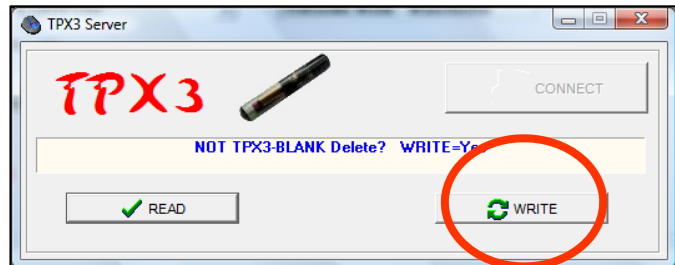
H. Insert original key and click **READ**



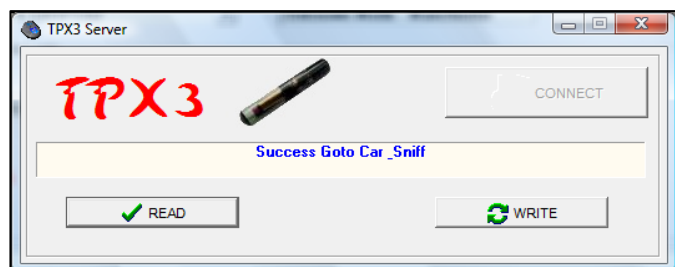
I. Insert a blank TPX3/4 and click **WRITE**



J. If TPX3/4 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 TPX3/4 must be a blank transponder.**
- **Tape the TPX3/4 to the head of the original key.**

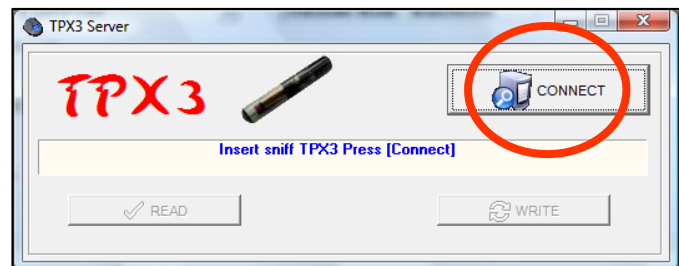
'Sniffing' Procedure

- i) Take the Original key and taped TPX3/4 transponder to the car.
- ii) Insert the original key/TPX3/4 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.

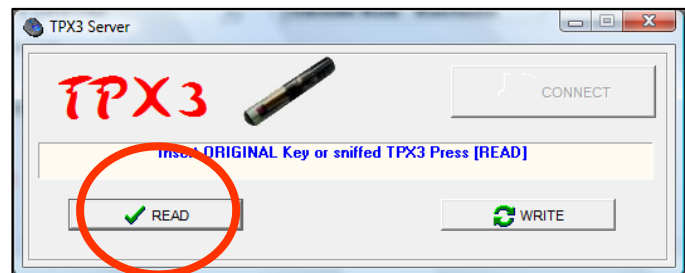
Note

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.

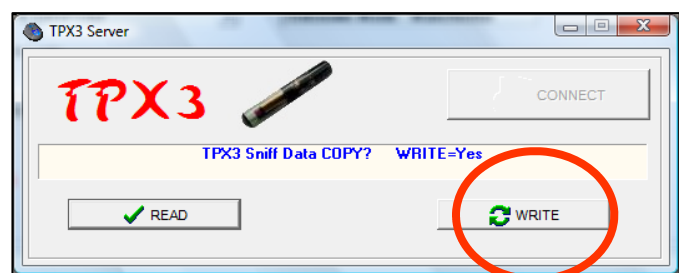
- M. Go back to the AD900Pro PC software and click **CONNECT**



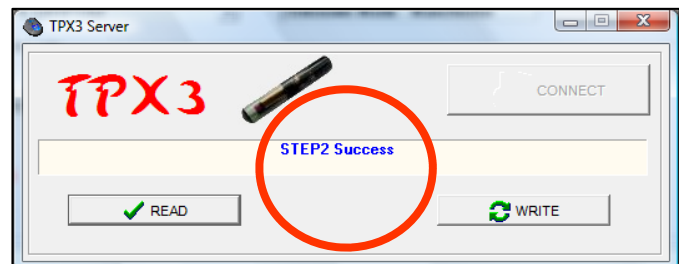
- N. Now take the 'sniffed' TPX3/4 and insert it into the reading area of the AD900Pro and click **READ**



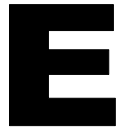
- O. Keep the TPX3/4 in the reading area and click **WRITE**



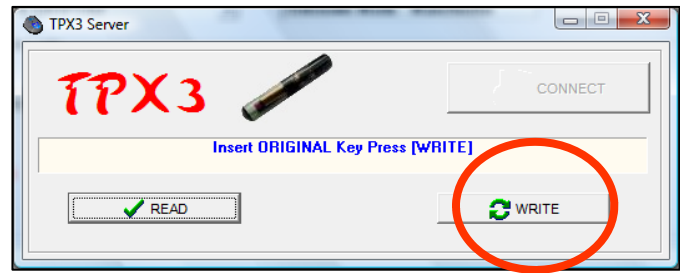
- P. If OK, the status bar will indicate successful.



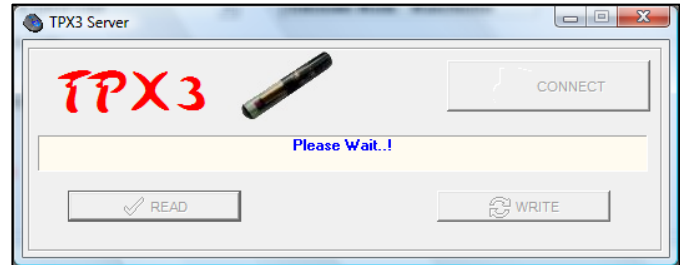
AD900Pro - PC SOFTWARE



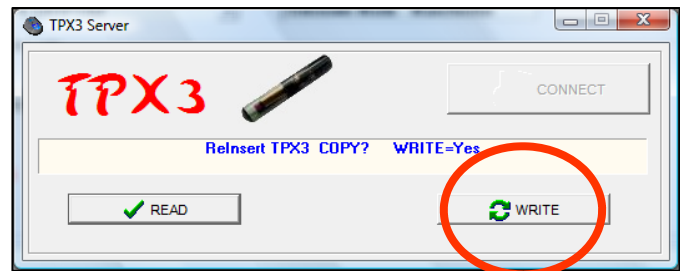
- Q. Now take the 'original key and insert the it into the reading area of the AD900Pro and click **WRITE**



- R. Wait

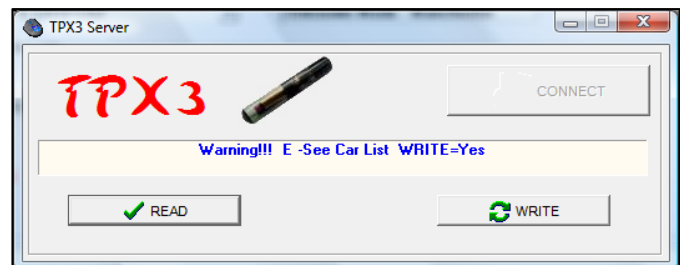


- S. Insert the 'sniffed' TPX3/4 into the reading area of the AD900Pro and click **WRITE**

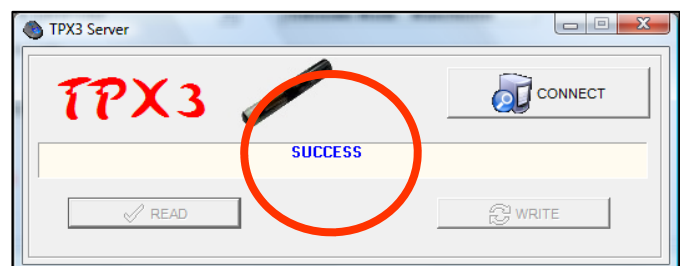


- T. Check this vehicle is compatible with TPX3/4 and click **WRITE**

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

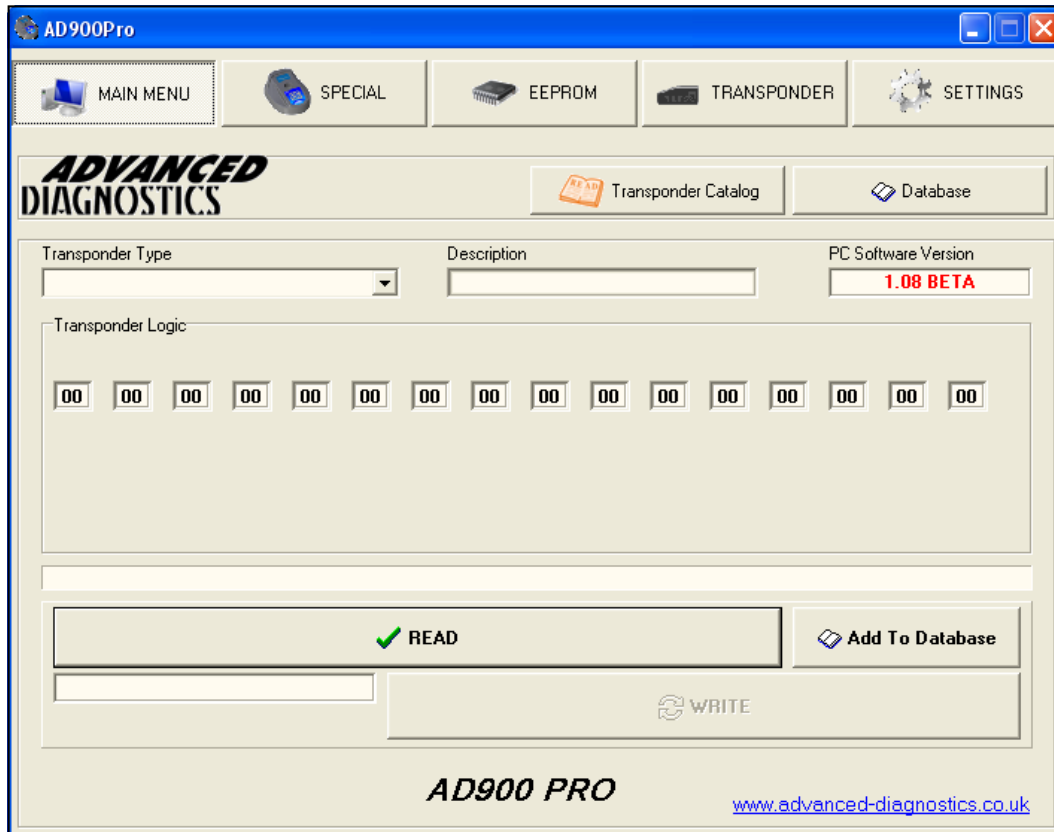
Step1; There isn't enough 'sniffed' data on the TPX3/4.

Step2; There is enough 'sniffed' data on TPX3/4 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)

Write To Pricoded 99

- F. Click **WRITE**

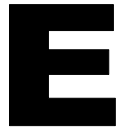
WRITE

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

Successfull...

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

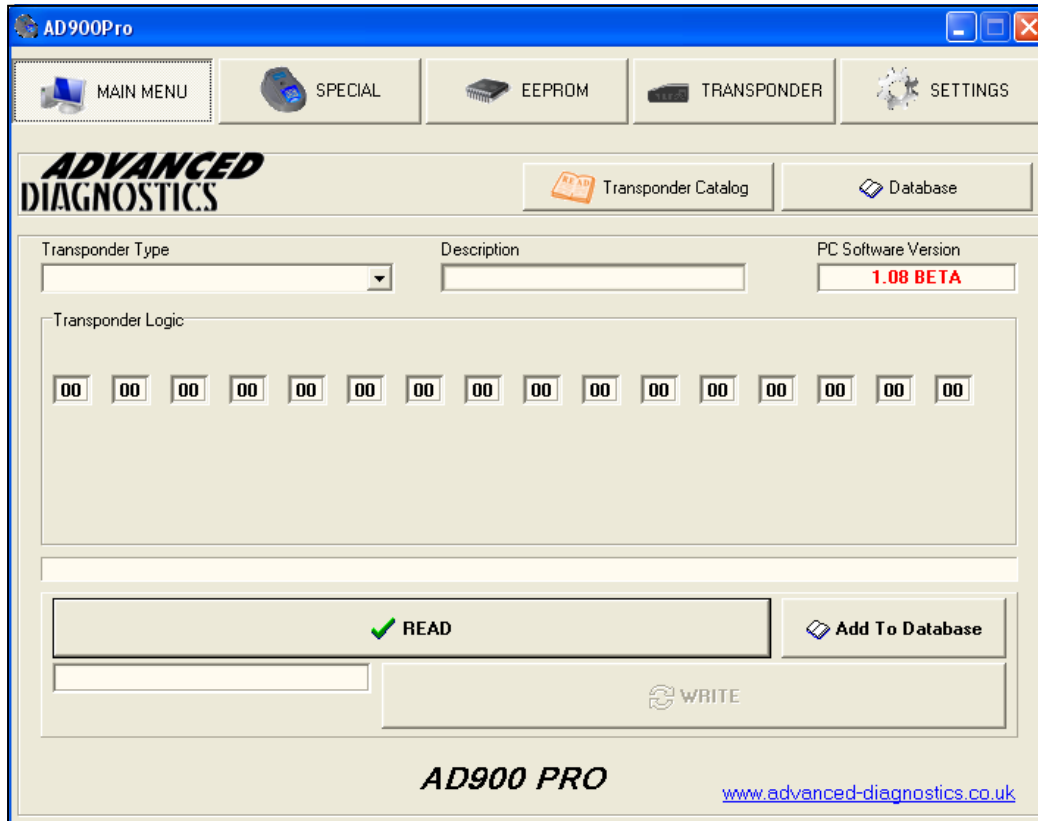
AD900Pro - PC SOFTWARE



WRITE CODE

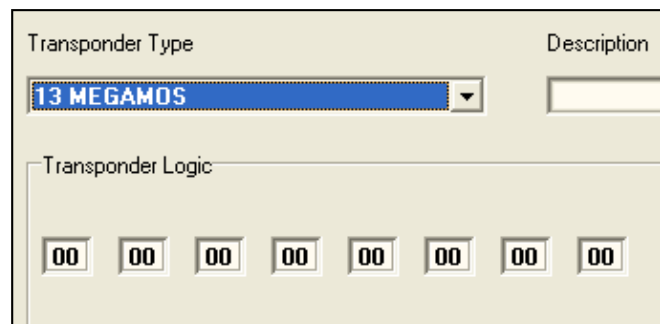
Allows transponder logic to be written onto a blank transponder

Procedure For Writing Logic Onto A T5 Transponder

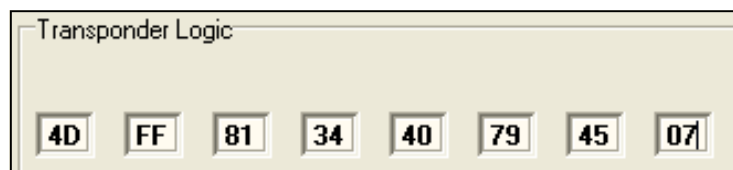


Procedure

- Select **MAIN MENU** tab.
- Select transponder type that you wish to write onto a blank transponder.



- 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.



AD900Pro - PC SOFTWARE

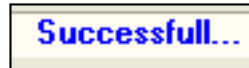
E

D. Place blank key into the reading area.

E. Click **WRITE**.

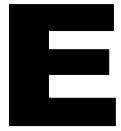


F. The status bar will indicate if copying was successful.

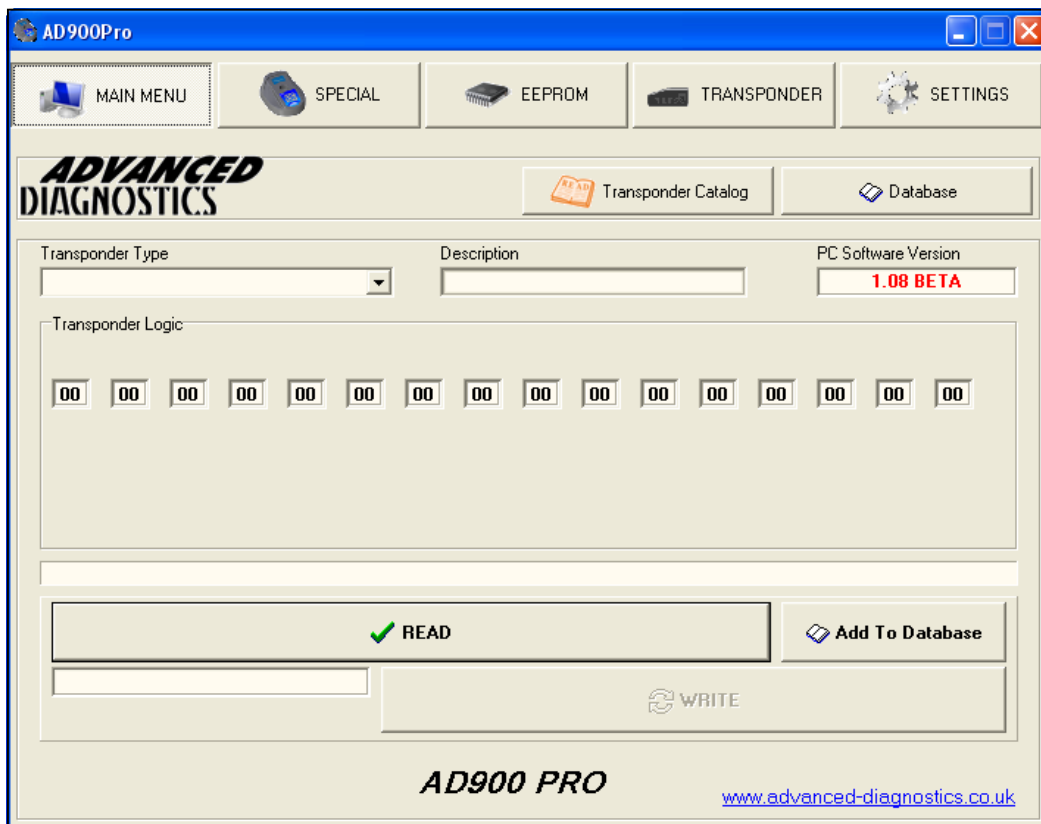


G. To write more logic, repeat steps **A to F**.

AD900Pro - PC SOFTWARE

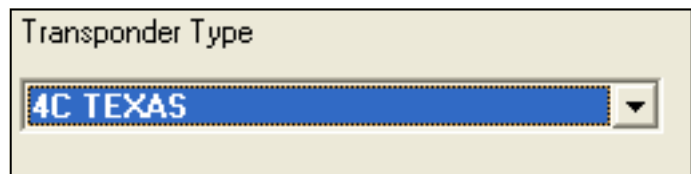


Procedure For Writing Texas 4C Logic Onto A Silca EH2 or JMA TPX1 Transponder

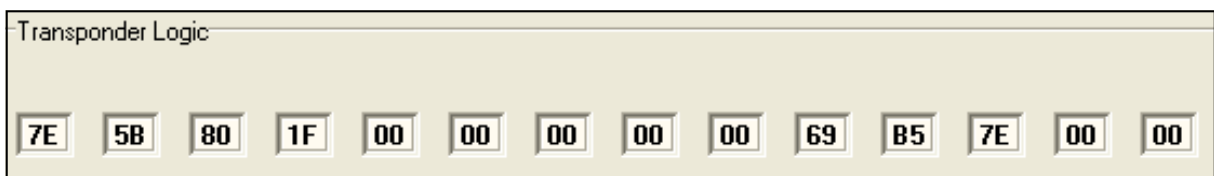


Procedure

- A. Select **MAIN MENU** tab.
- B. Select transponder type (4C) that you wish to write onto a blank transponder.



- C. Enter transponder logic.

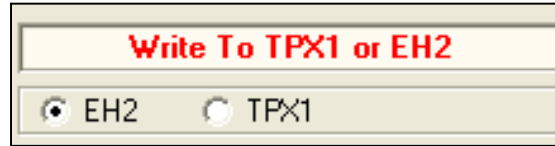


AD900Pro - PC SOFTWARE



- D. Insert blank key
- E. Click either **EH2** or **TPX1** to select type of transponder to be copied onto.

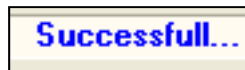
Note: JMA TPX1 is an additional software module and will only be active if purchased.



- F. Click **WRITE**

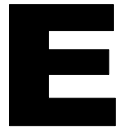


- G. The status bar will indicate if copying was successful.



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

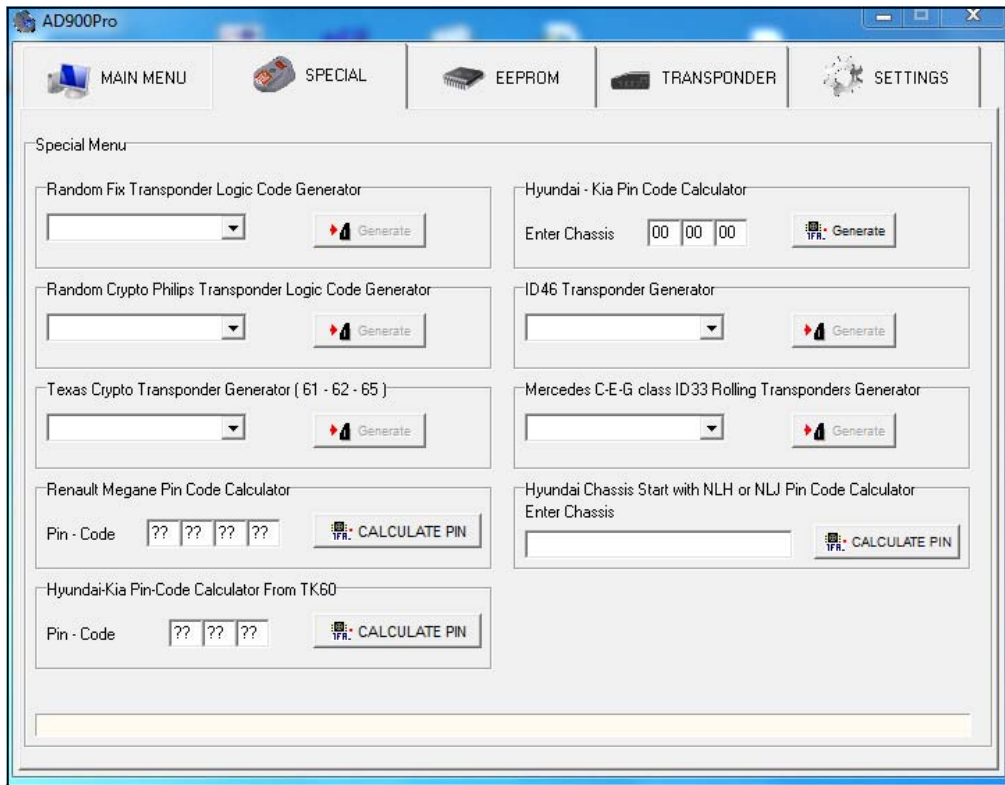
AD900Pro - PC SOFTWARE



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

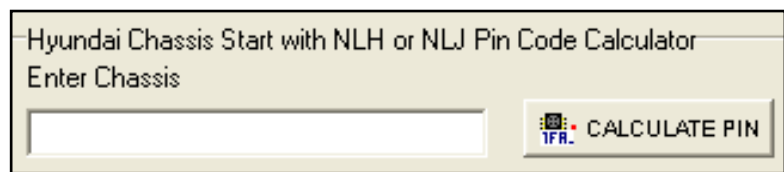
- Select **SPECIAL** tab.
- Select appropriate function.

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**

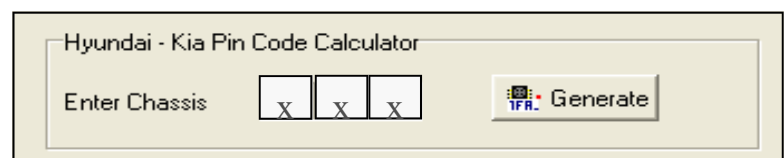
The 6 digit Pin code will be displayed.



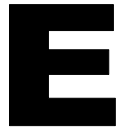
Pre 2007 Hyundai & Kia

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

The 6 digit Pin code will be displayed.



AD900Pro - PC SOFTWARE

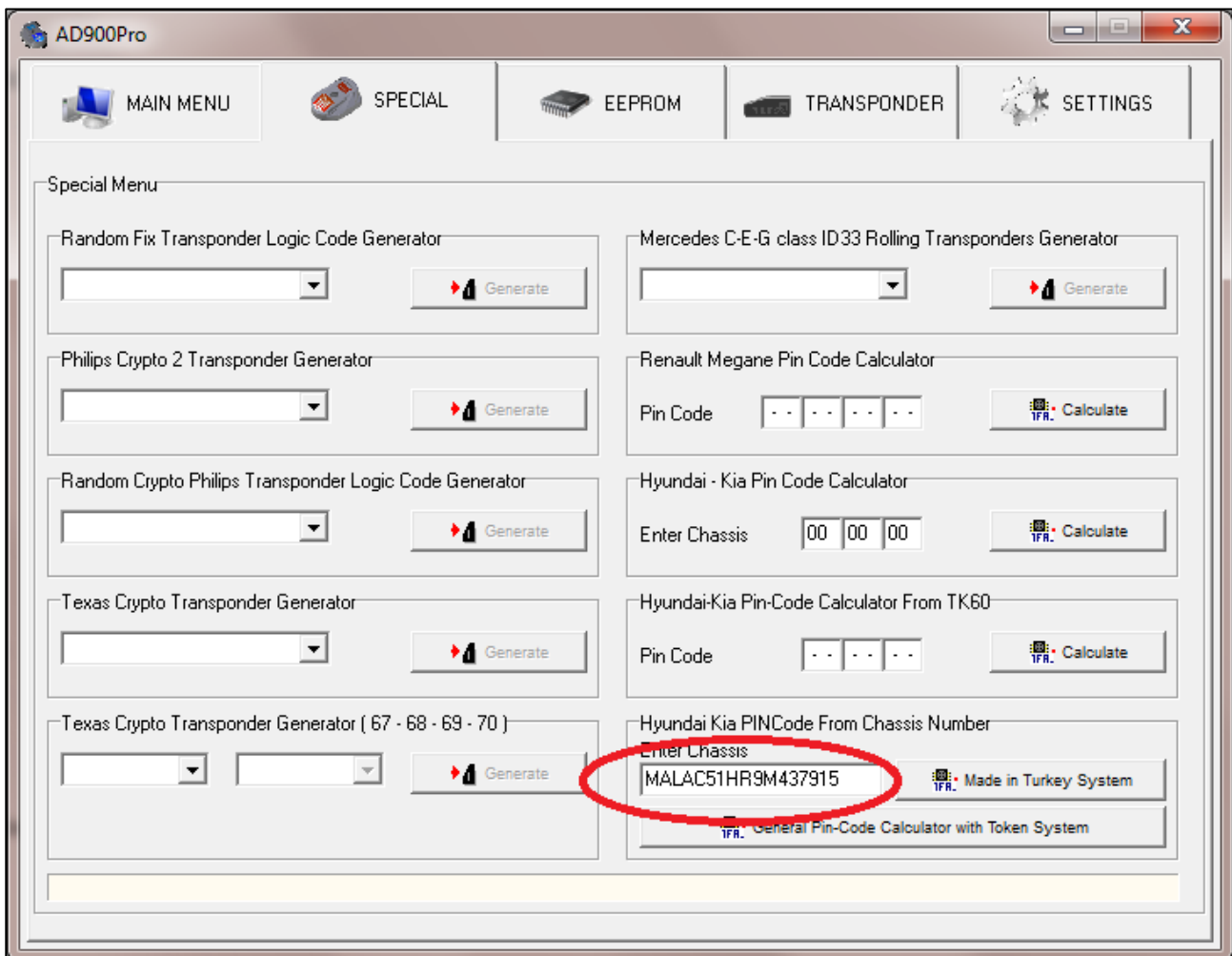


SPECIAL FUNCTION

Post 2007 Hyundai & Kia

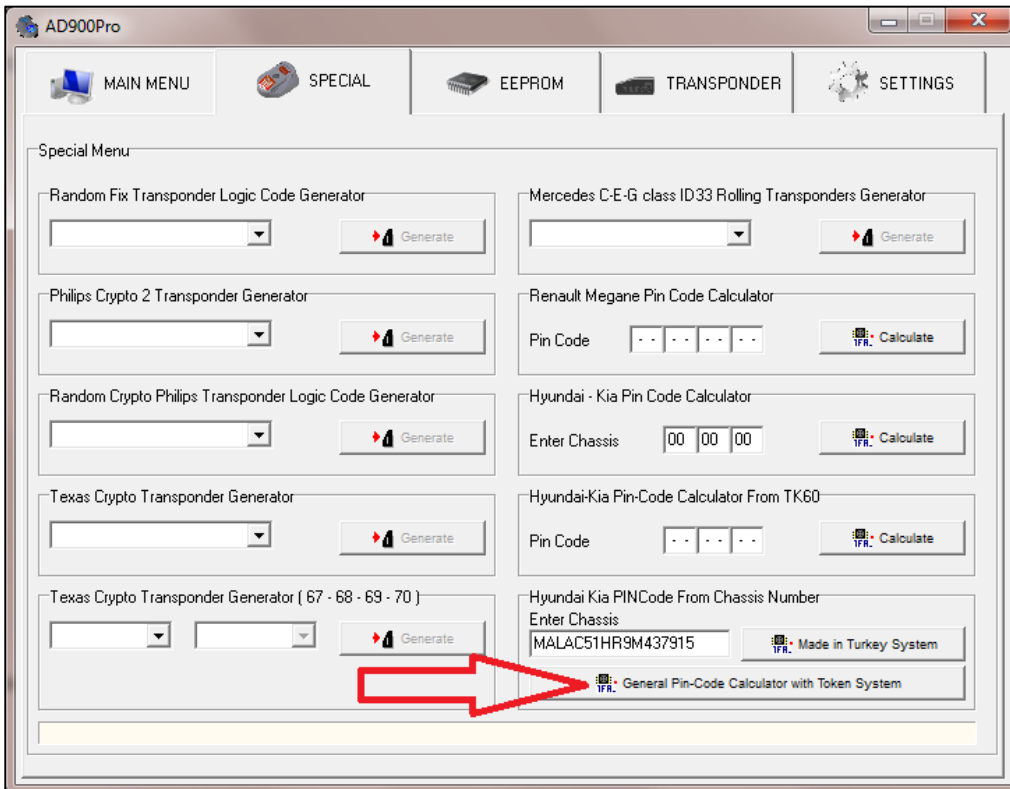
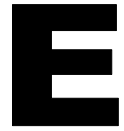
This feature allows all pin codes including those after 2007 to be calculated. This feature is used with tokens that need to be purchased from your distributor.

Once you have purchased your tokens, you enter the 17 digit VIN number and calculate the code (web access is required). Once the pin has been provided a credit will be deducted from your credit balance.

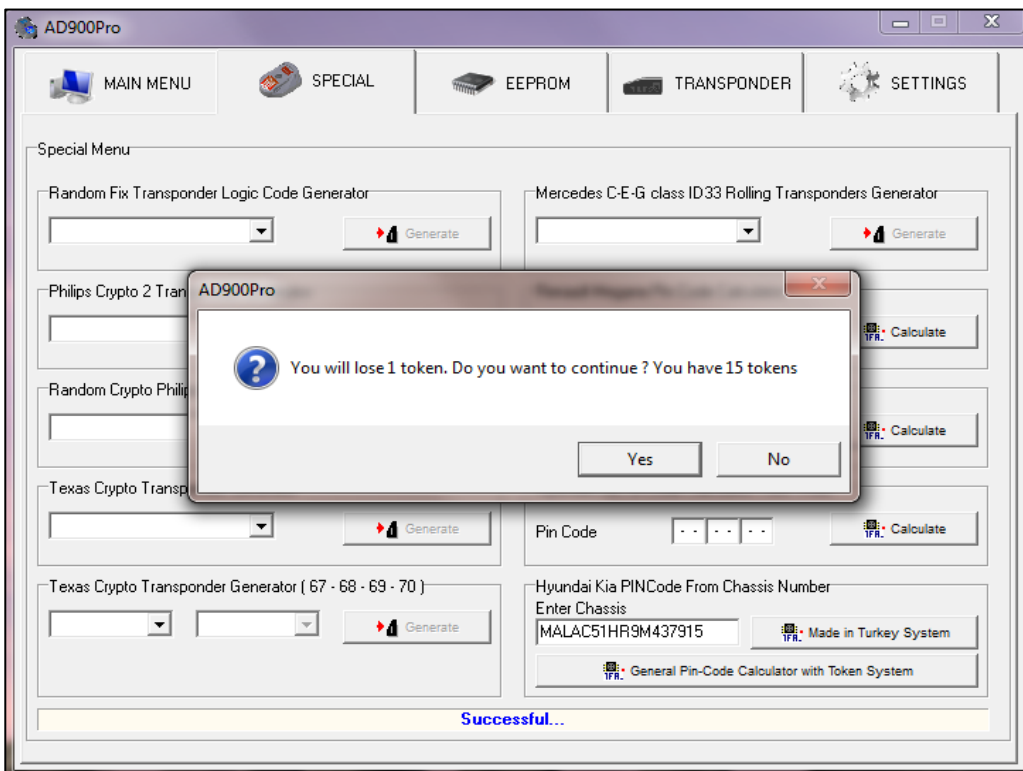


Enter the full 17 digit chassis number here

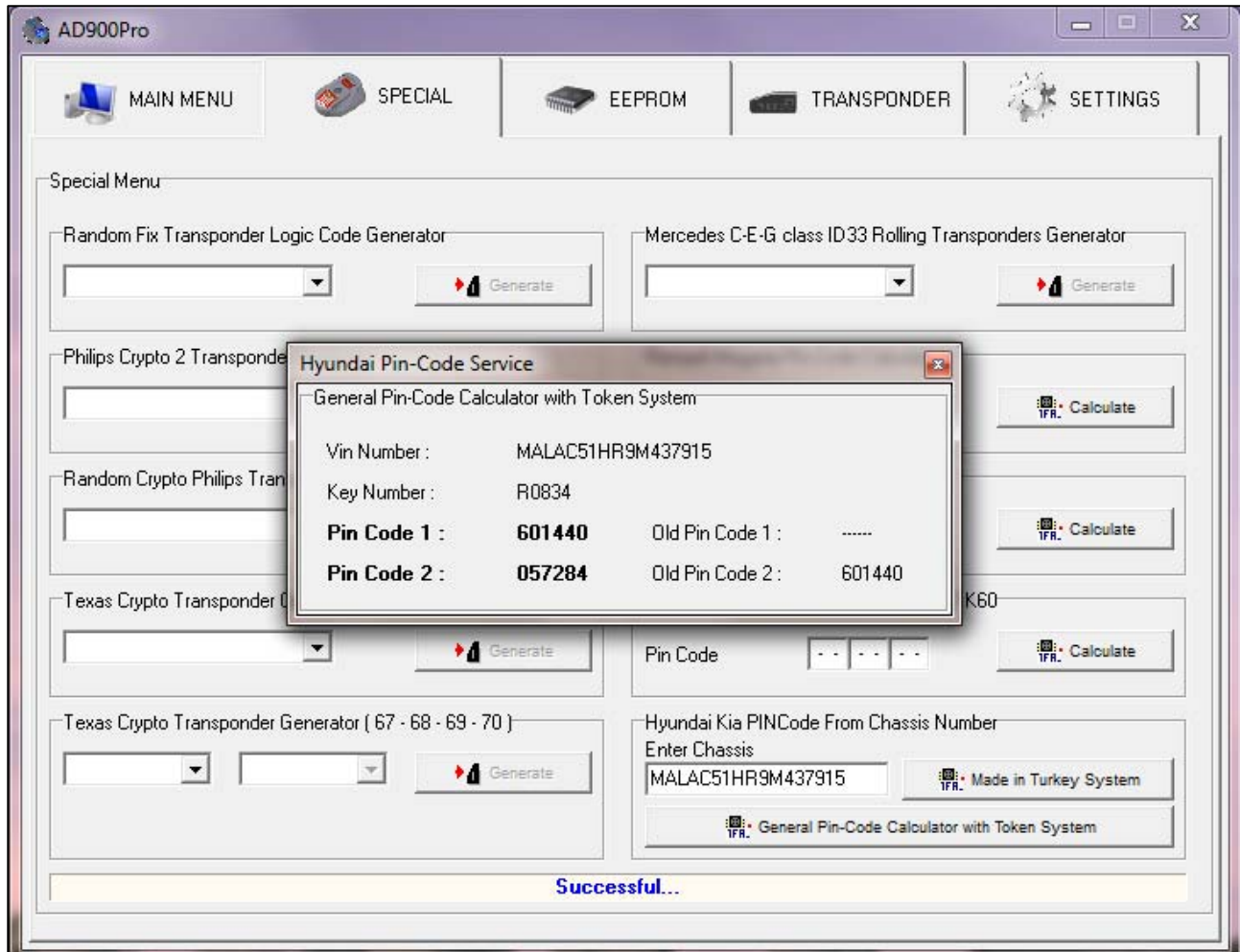
AD900Pro - PC SOFTWARE



Then press the "General pin-code calculator with Token System" button at the bottom

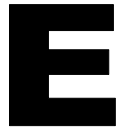


You will then get a token verification screen



The Pin Code(s) and mechanical key number will be displayed

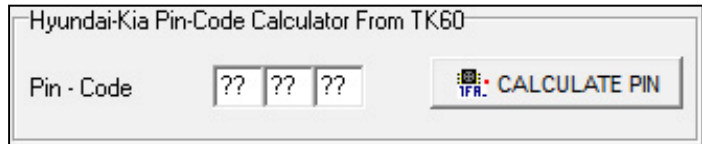
AD900Pro - PC SOFTWARE



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.

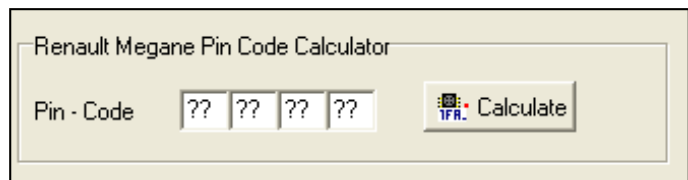


Then place the TK60 into the reading area of the AD900Pro and press **CALCULATE PIN**

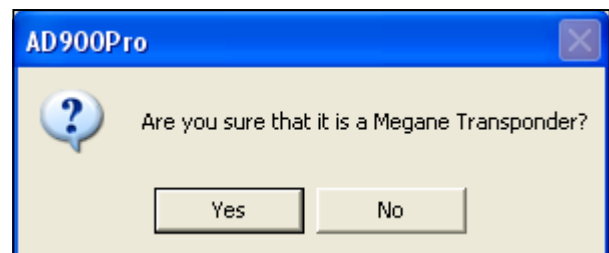
RENAULT PIN CODE CALCULATOR (8 Digit - Texas Crypto ID60 & ID64)

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

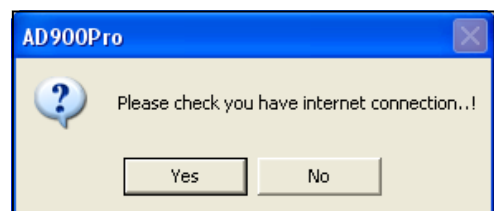
1. put the key into the key reading area and press the **CALCULATE** button



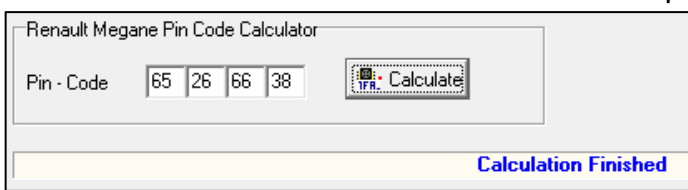
2. Confirm that a correct transponder has been inserted.



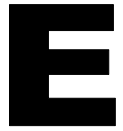
3. Confirm that you have an internet connection



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

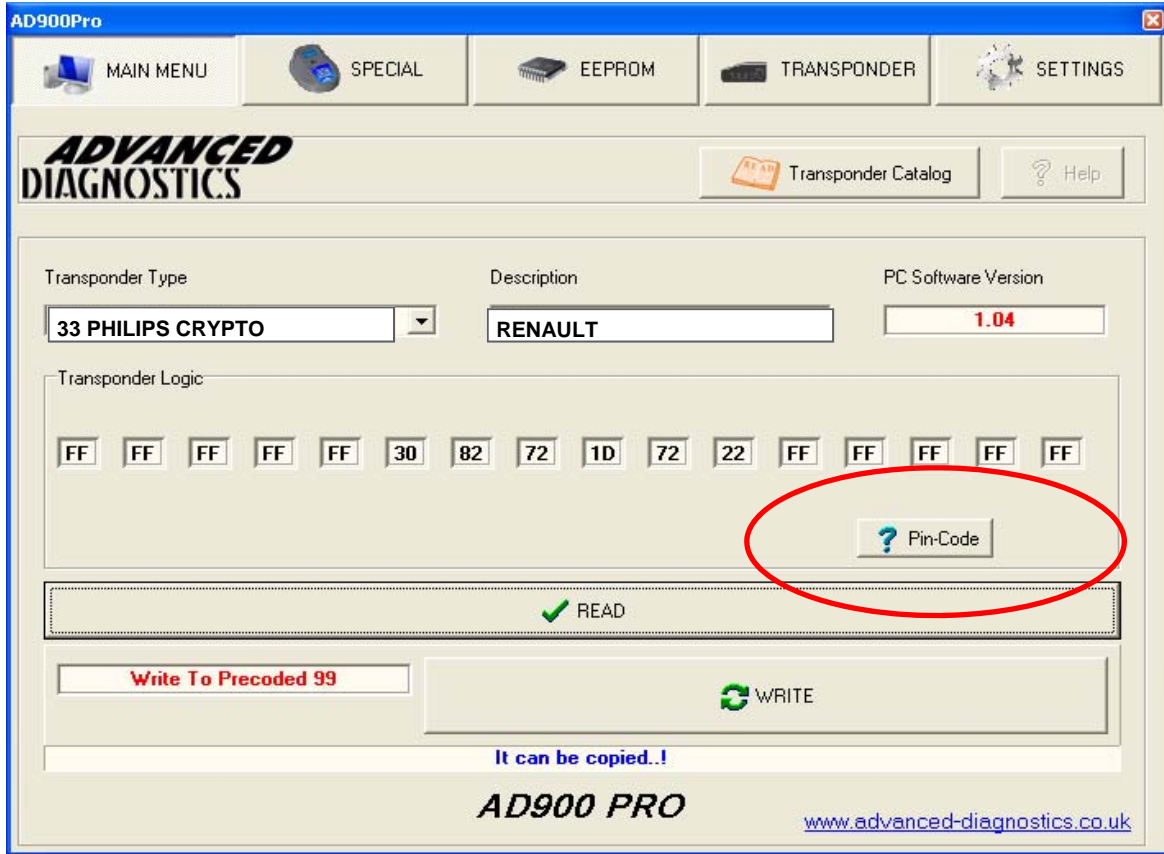


AD900Pro - PC SOFTWARE

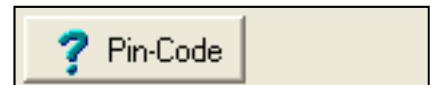


33 RENAULT PIN

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

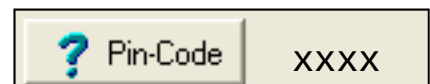


B. A **PIN CODE** button will appear.



C. Click **PIN CODE**

D. The pin code will be displayed.

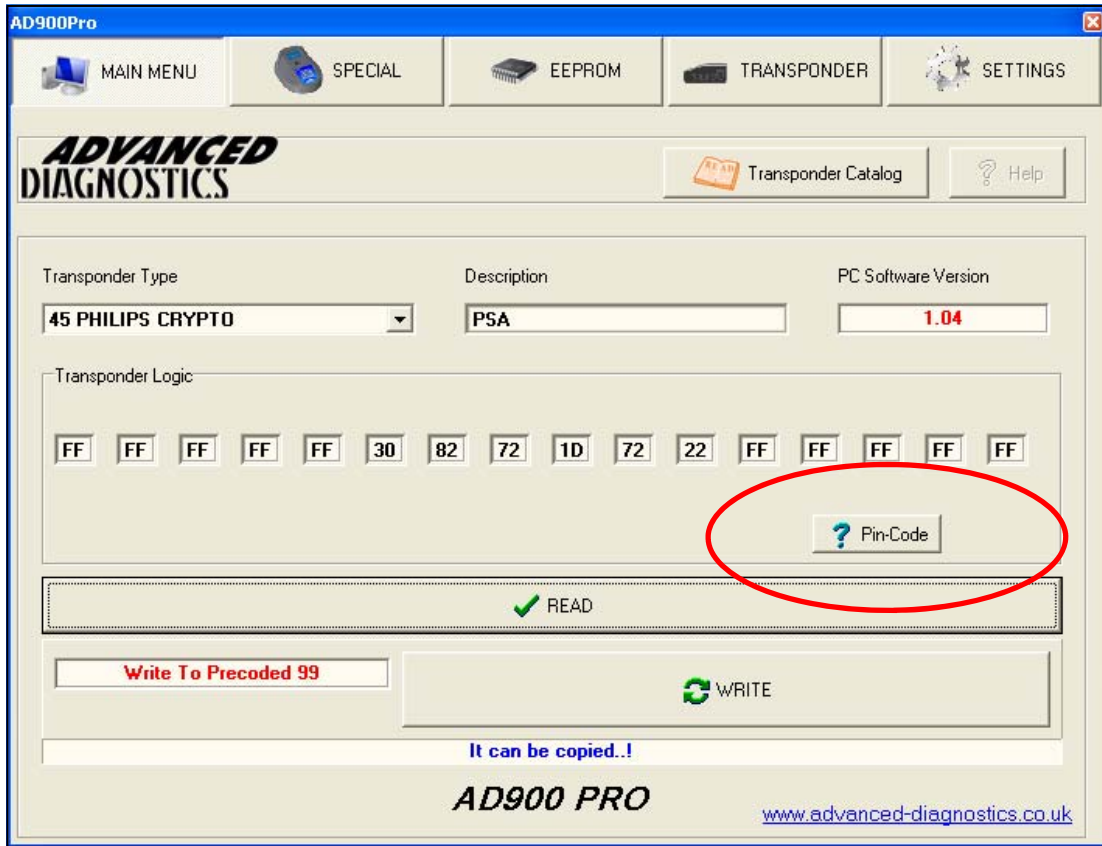


AD900Pro - PC SOFTWARE

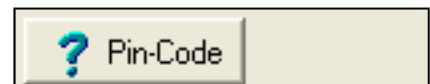


45 PSA PIN

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

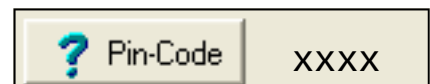


B. A **PIN CODE** button will appear.



C. Click **PIN CODE**

D. The pin code will be displayed.



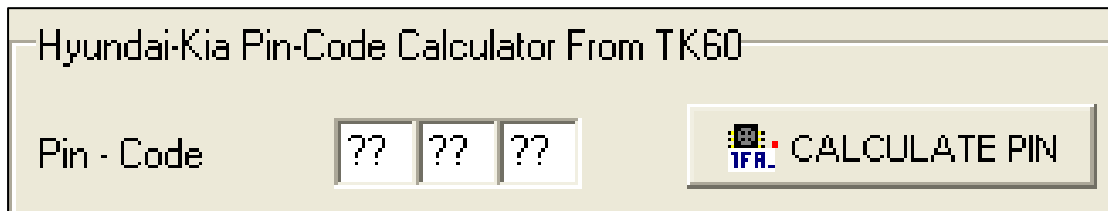
AD900Pro - PC SOFTWARE



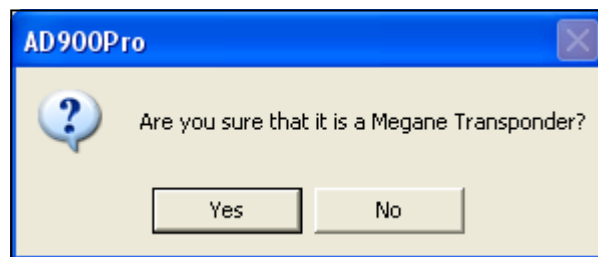
HYUNDAI/KIA PIN CODE CALCULATOR FROM TK60

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.

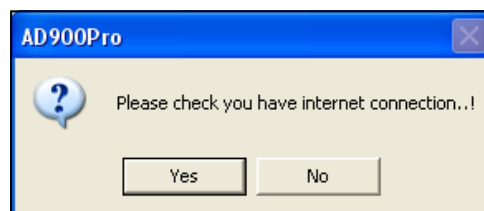
1. put the key into the key reading area and press the **CALCULATE PIN** button



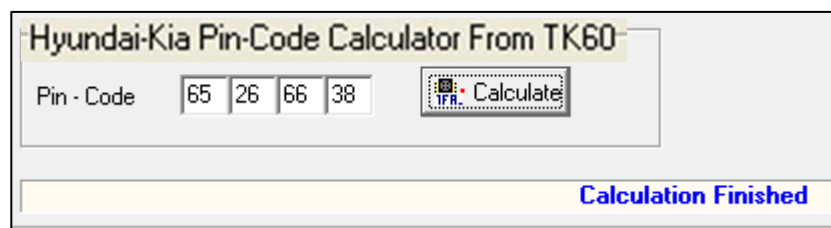
2. Confirm that a correct transponder has been inserted.



3. Confirm that you have an internet connection



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



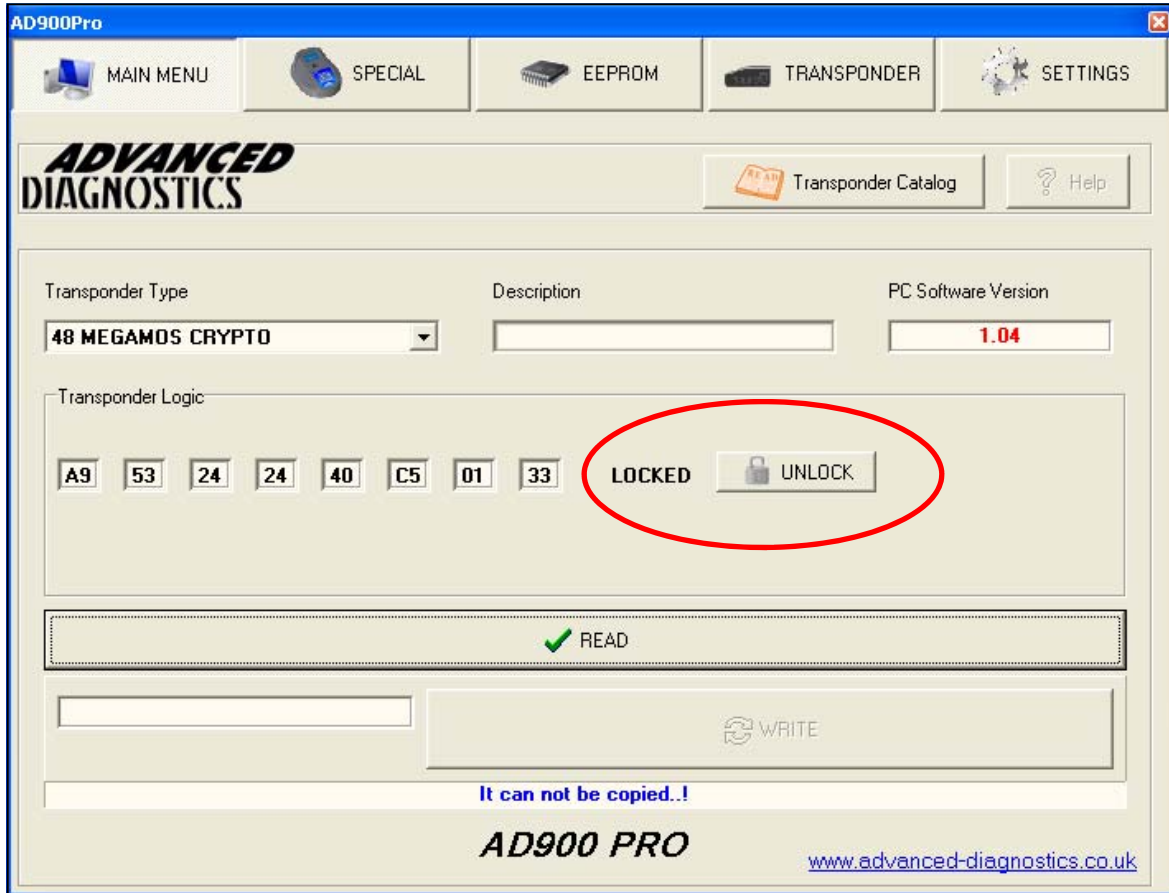
AD900Pro - PC SOFTWARE



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.

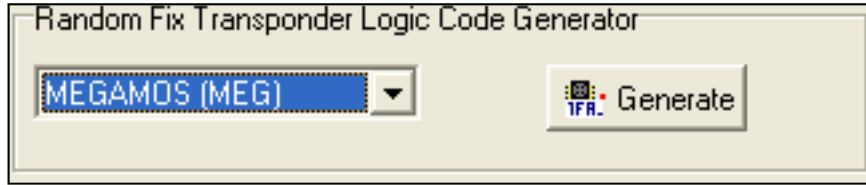
Successfull...

AD900Pro - PC SOFTWARE



RANDOM FIX CODE LOGIC GENERATOR

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

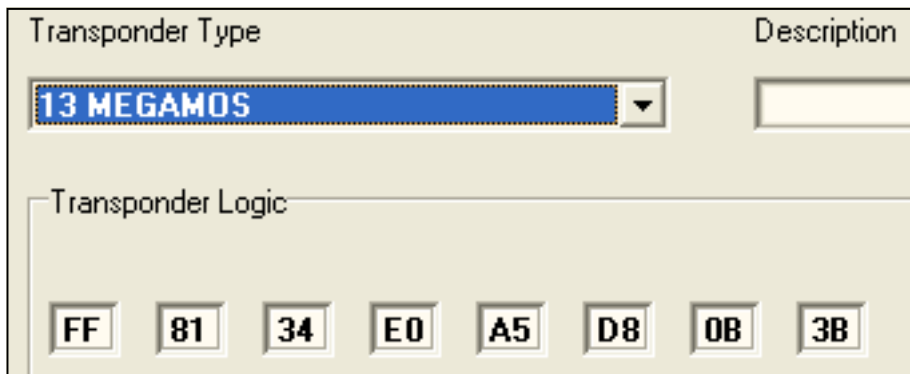


Procedure

- A. Select type of transponder logic that you require code generating for.
- B. Click **GENERATE**



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



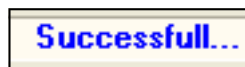
- D. The type of transponder to be programmed will be indicated.



- E. Place blank key into the reading area.
- F. Click **WRITE**



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

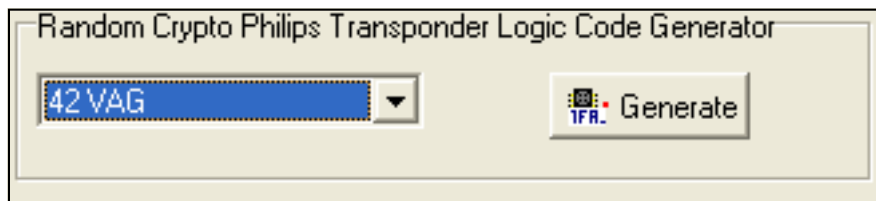


AD900Pro - PC SOFTWARE



RANDOM CRYPTO PHILIPS TRANSPONDER LOGIC CODE GENERATOR

Generates logic for Crypto transponders.

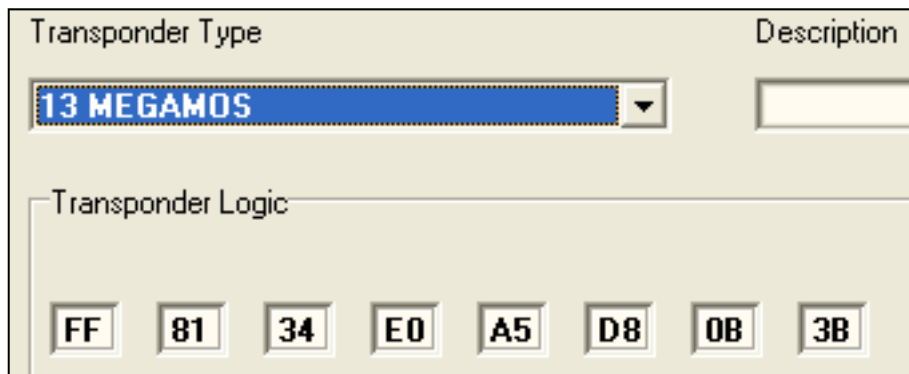


Procedure

- A. Select type of transponder logic that you require code generating for.
- B. Click **GENERATE**



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



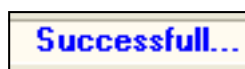
- D. The type of transponder to be programmed will be indicated.



- E. Place blank key into the reading area.
- F. Click **WRITE**

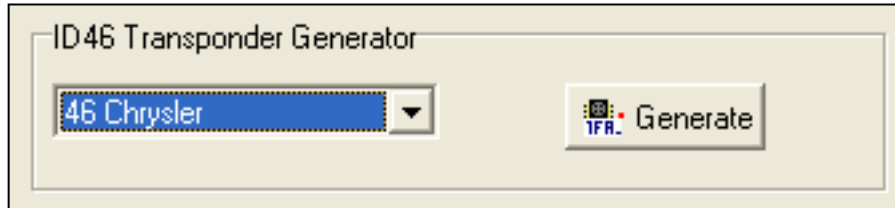


- G. The status bar will indicate if copying was successful.



ID46 TRANSPONDER GENERATOR

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



Procedure

- Select type of transponder logic that you require code generating for.
- Insert a blank ID46 transponder into the reading area.
- Click **GENERATE**



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



- The transponder can now be programmed into a vehicle.

MERCEDES CEG GLASS ID33 ROLLING TRANSPONDER GENERATOR

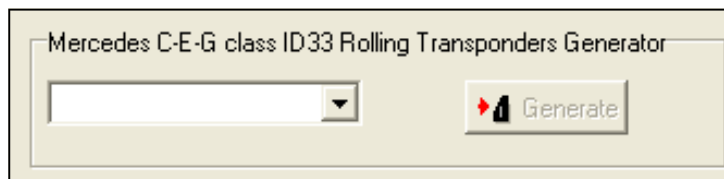
Generates logic for early Mercedes.

Mercedes ID33 transponder is Rolling transponder and it is not possible to copy a Rolling transponder.

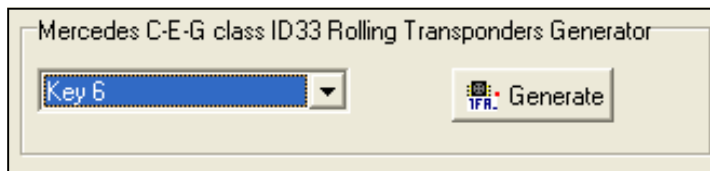
However, this facility allows you to generate ID33 transponder logic for Mercedes and produce a transponder that will start the car directly.

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.

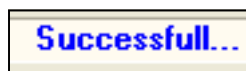


- B. Place a special transponder (AKTP30) into the reading area.

- 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.



AD900 Pro Software # ADS-925

Texas Crypto Generator from ID60-61-63 to ID67-68-69-70

The AD900 Pro must be connected to the PC software for use

Internet connection not required

This software allows the conversion of an unlocked 4D60-61-63 transponder to a 4D67, 4D68, 4D69 or 4D70 40-bit transponder. If pages 1/2/4 are unlocked, you will be able to convert a 4D60-61-63 to a 4D67, 4D68, 4D69 and 4D70.

4D60 transponders include = TP06 (JMA), TP19 (JMA) and T13 (Silca)

4D61 transponders include = TP26 (JMA) and T19 (Silca)

4D63 transponders include = TP20 (JMA), TP33 (JMA) and T17 (Silca)

US and Canadian Toyota 4D transponders use the 4D67 ID. (Keyed models)

US and Canadian Lexus 4D transponders use the 4D68 ID. (Keyed models)

US and Canadian Prius 04-08 4D transponders use the 4D69 ID. (Smart Key)

4D67 = Toyota

4D68 = Lexus

4D69 = Toyota

4D70 = Toyota

Toyota 4D67 ID

Toyota master key passwords are B2, 32 and 52.

Valet key passwords are D2 and 92.

Lexus 4D68 ID

Lexus master key passwords are B0, 30 and 50.

Valet key passwords are D0 and 90.

Wallet key password is 70 and can be used as a master.

Toyota 2004-08 Prius 4D69 ID

Master key passwords are B4, 34 and 54

Valet key passwords are D4 and 94.

Toyota 4D70 ID

Toyota master key passwords are B3, 33 and 53.

Valet key passwords are D3 and 93.

NEW EPROM MODULES AVAILABLE

AD998—EEProm DAF Trucks (ID:48)

Ad999—EEProm Scania Trucks (ID:60)

AD1000—EEProm ISUZU VDO (ID:46)

AD1001—EEProm Ford Mondeo , Focus, KA (ID:4C)

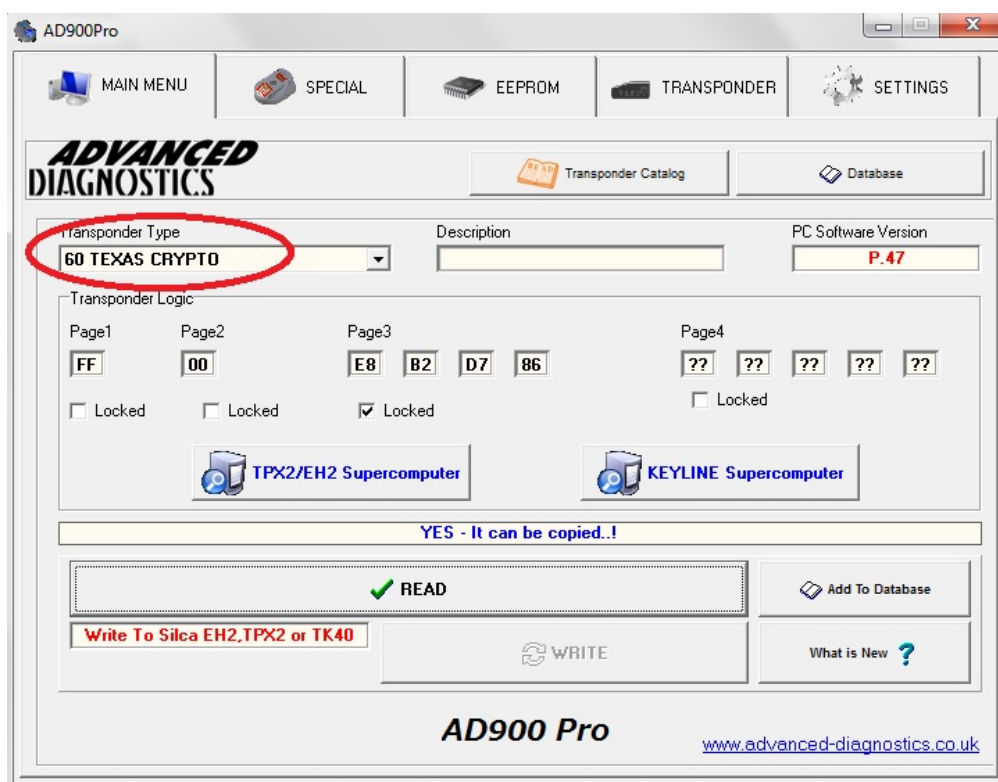
AD1002—EEProm Susuki Bike (ID:4C)

AD1003—EEProm Susuki Bike (ID:62)

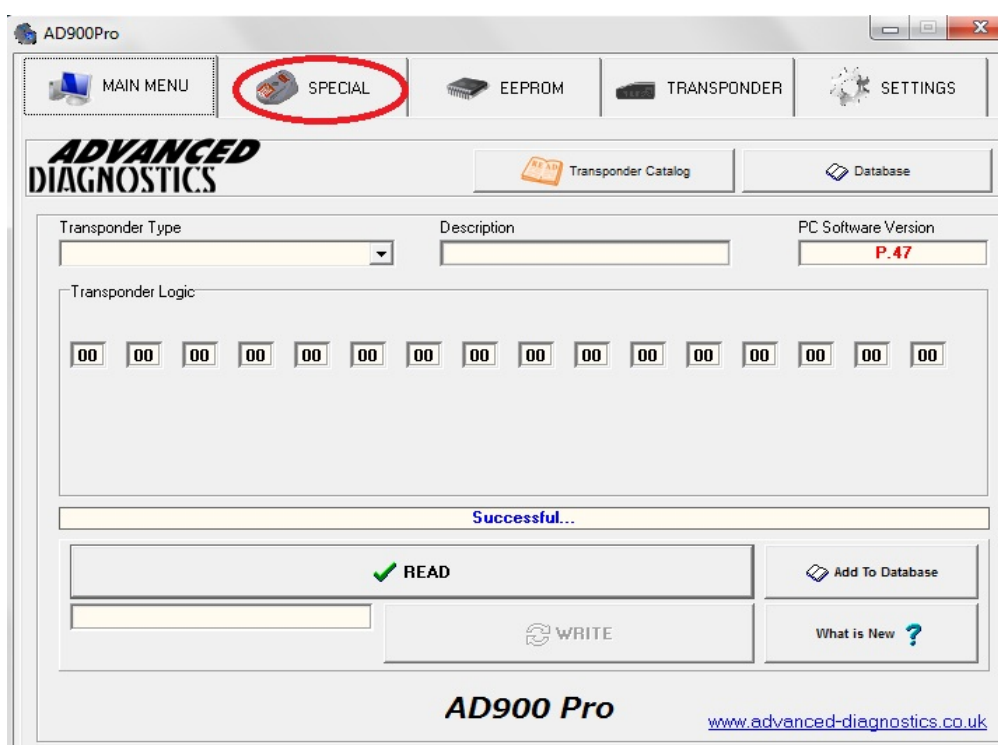
AD1004—EEProm Mitsubishi L200 (ID:46)

Instructions for use:

#1: Insert a 4D 60-61-63 transponder into the AD900 Pro reading area and select “Read”. Using the “Read” feature will verify that the transponder can be converted before starting the conversion process.

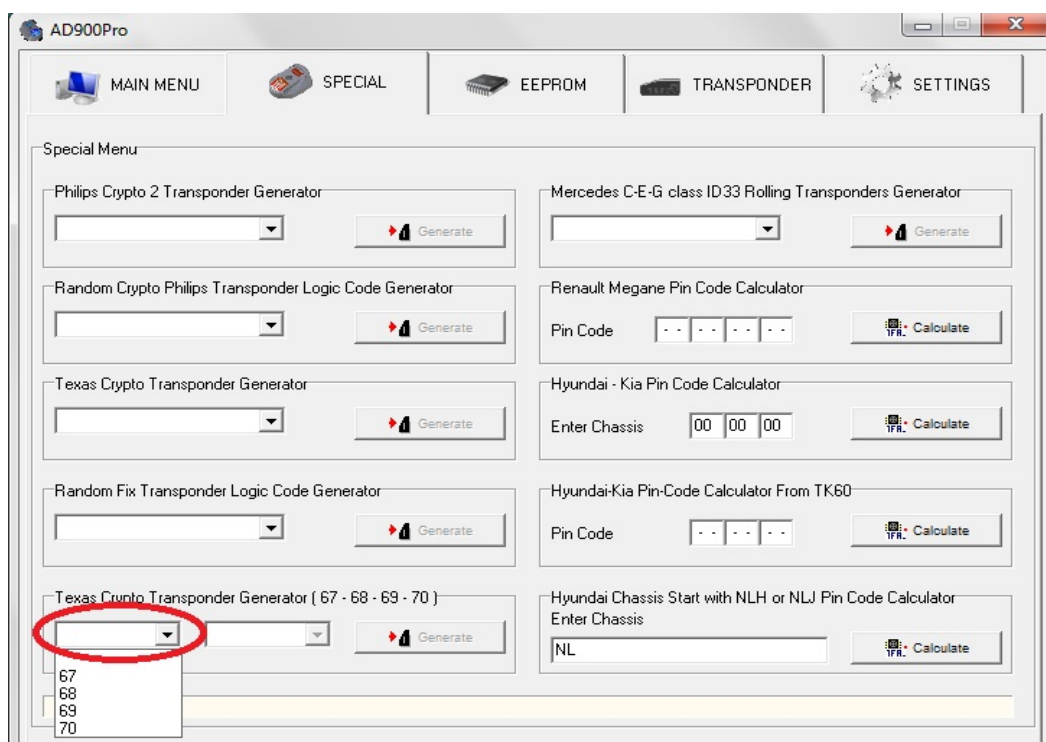


#2: Using the PC software, select the “SPECIAL” button on the top left of the screen.



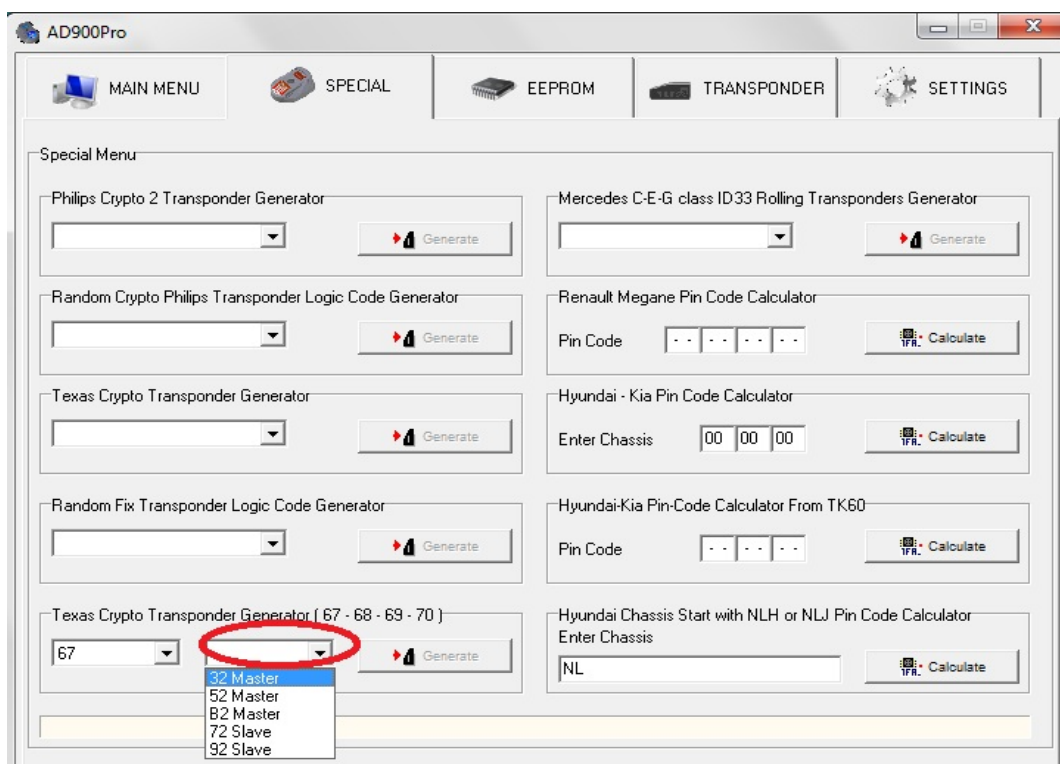
#3: The 4D 67-68-69-70-software window is located at the bottom left of the “SPECIAL” screen,

Select the type of transponder required for your application on the first window. 4D 67-68-69-70 will be shown in a drag down box.

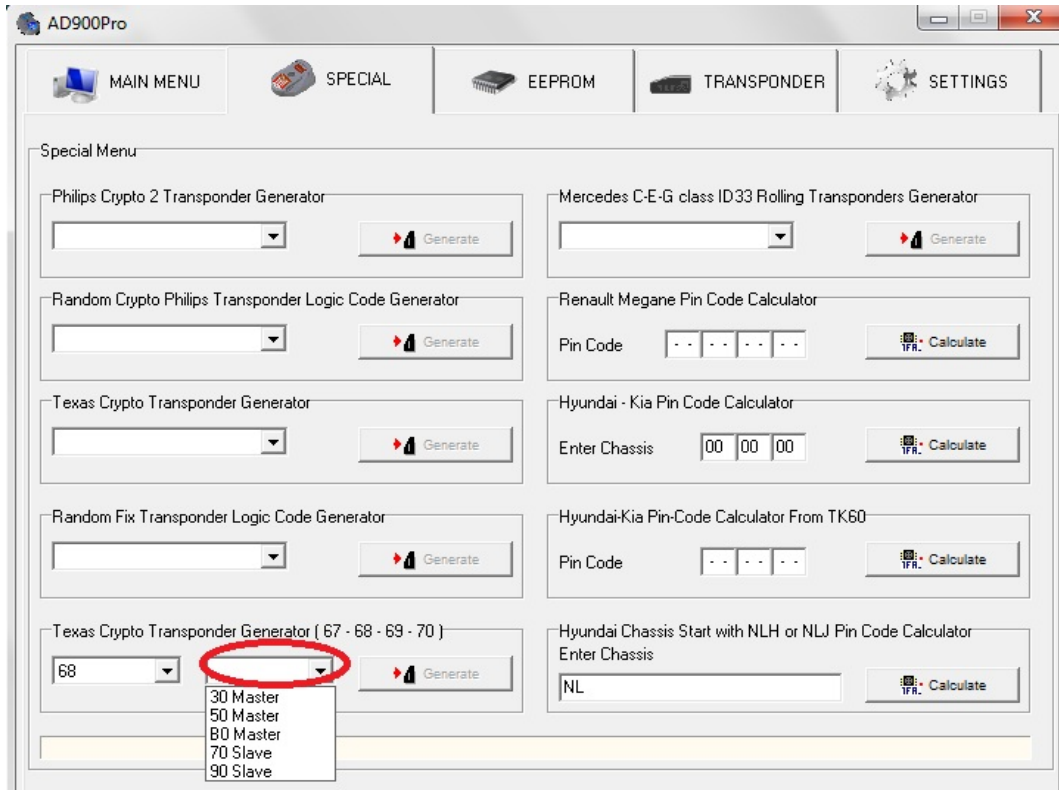


#4: Once the type of transponder is selected (example 4D67), select the master or valet encoding required. Any selection listed, as “master” will work as a master key. Any selection listed, as “slave” will work as a valet key. 4D68-69-70 screens are also shown below.

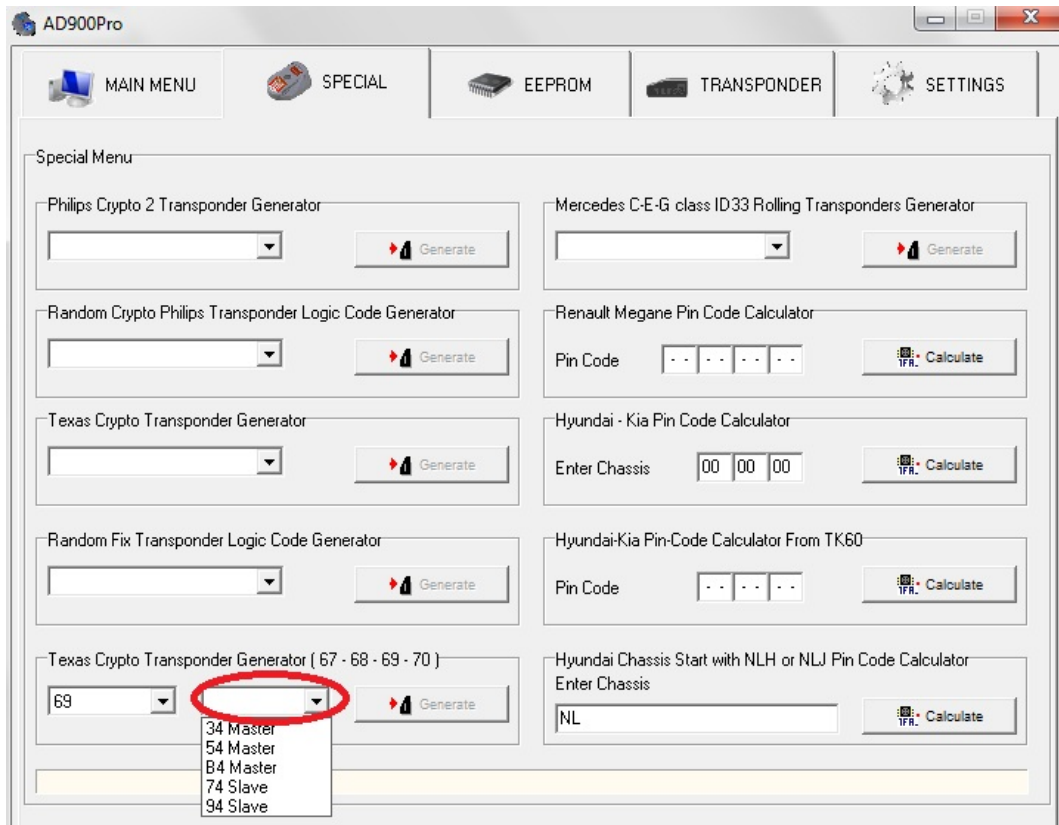
4D67 Screenshot



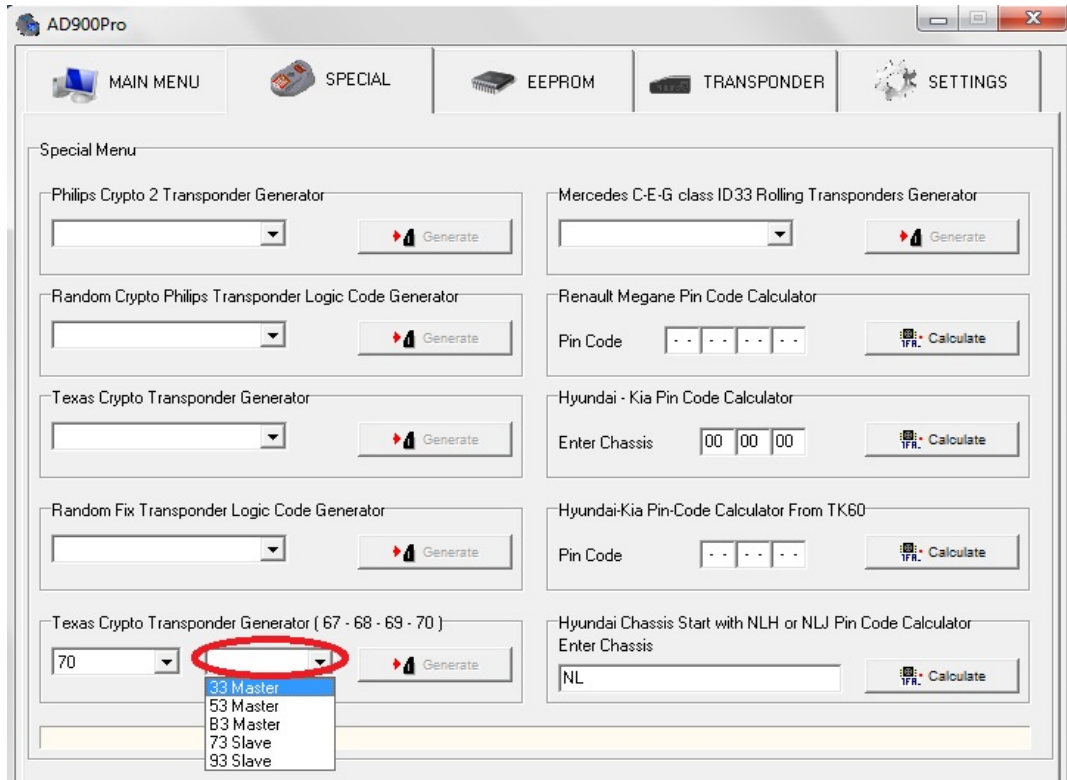
4D68 Screenshot



4D69 Screenshot

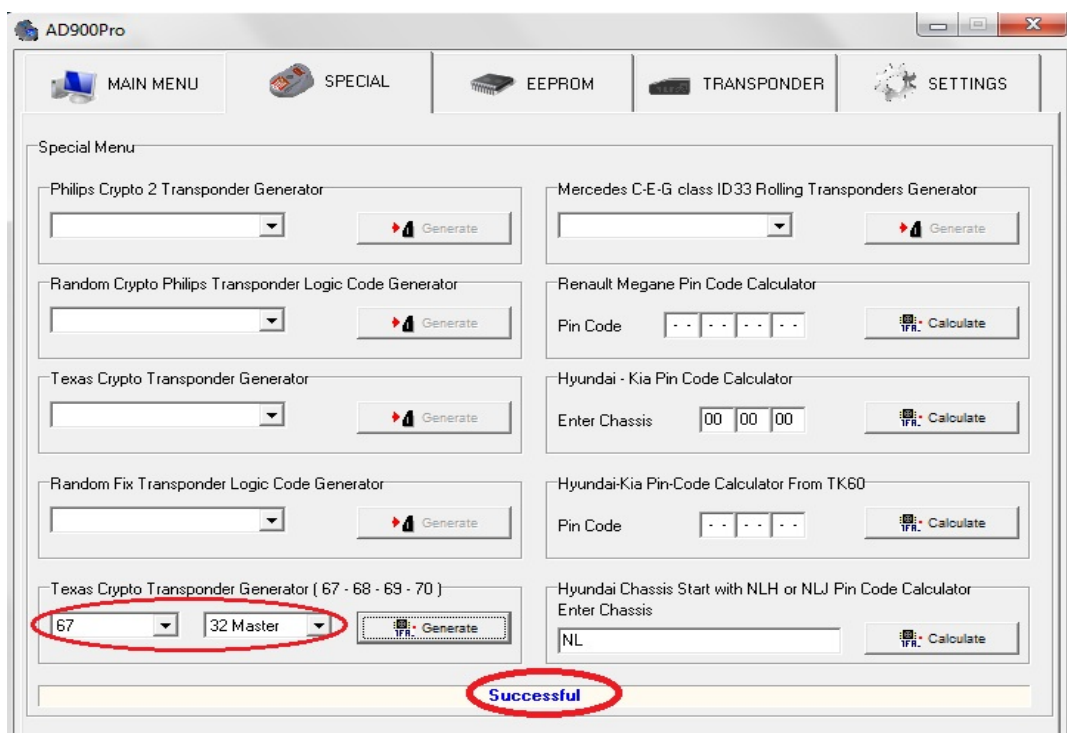


4D70 Screenshot

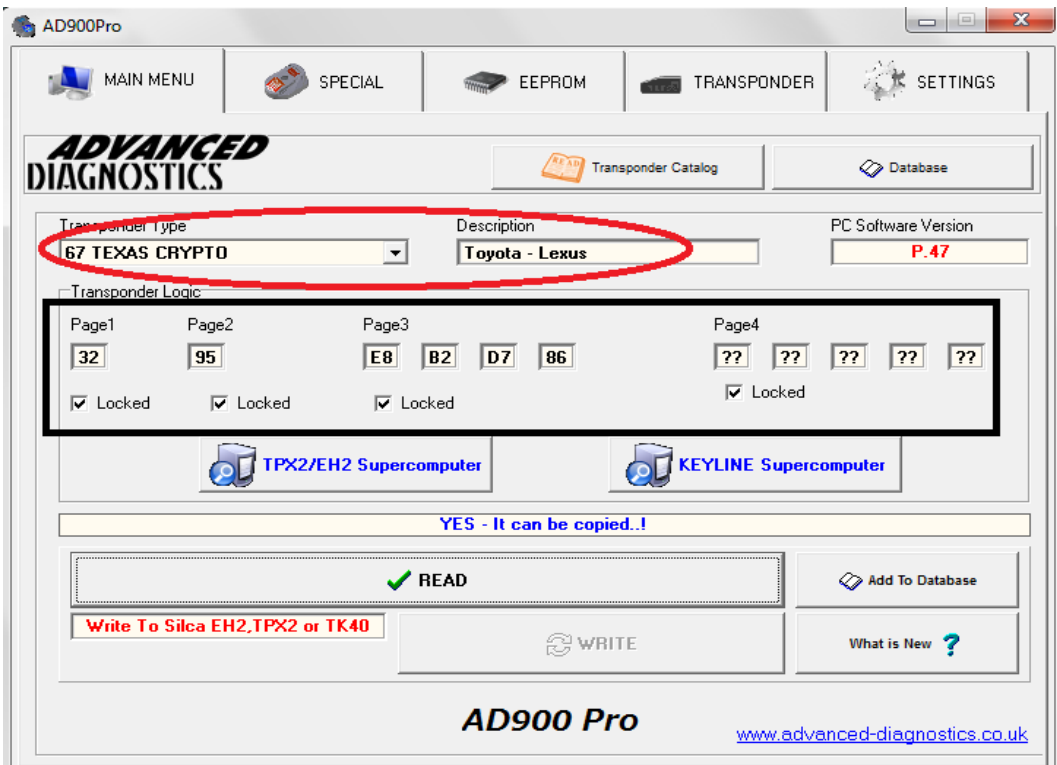


#5: Once the type and master/valet function is selected, insert a 4D60 transponder into the AD900 Pro. Press the “generate” selection on your screen located to the right of the master/slave drag down box.

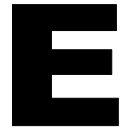
In approximately 10 seconds, the 4D60-61-63 transponder will be converted to the transponder selected. Once the transponder is converted, it cannot be re-configured as the transponder locks pages 1, 2, and 4. Return to the “Main Menu” by pressing the “Main Menu” button on the top left of the screen.



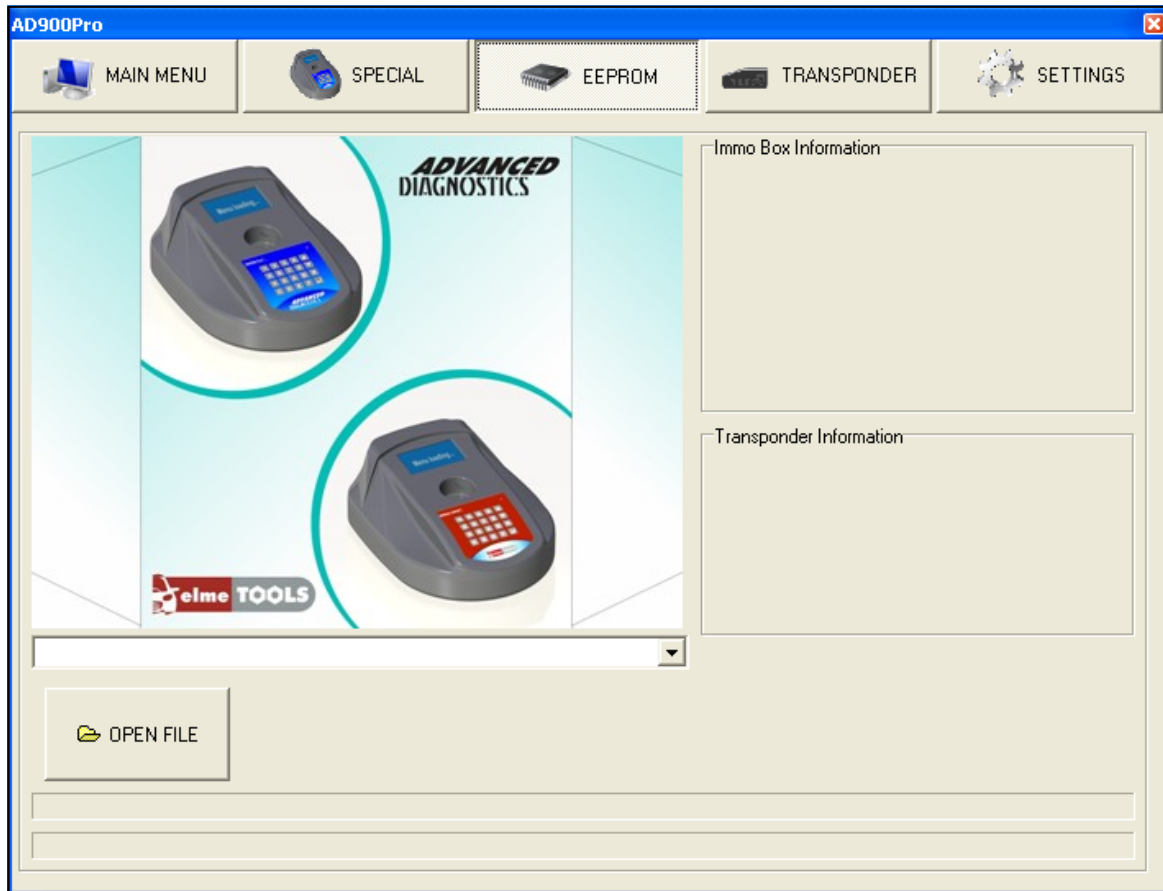
#6: Read the converted transponder by selecting “Read”. The transponder should now be converted to a 4D67 Master Toyota transponder as seen below. The converted transponder is now ready for use.



AD900Pro - PC SOFTWARE

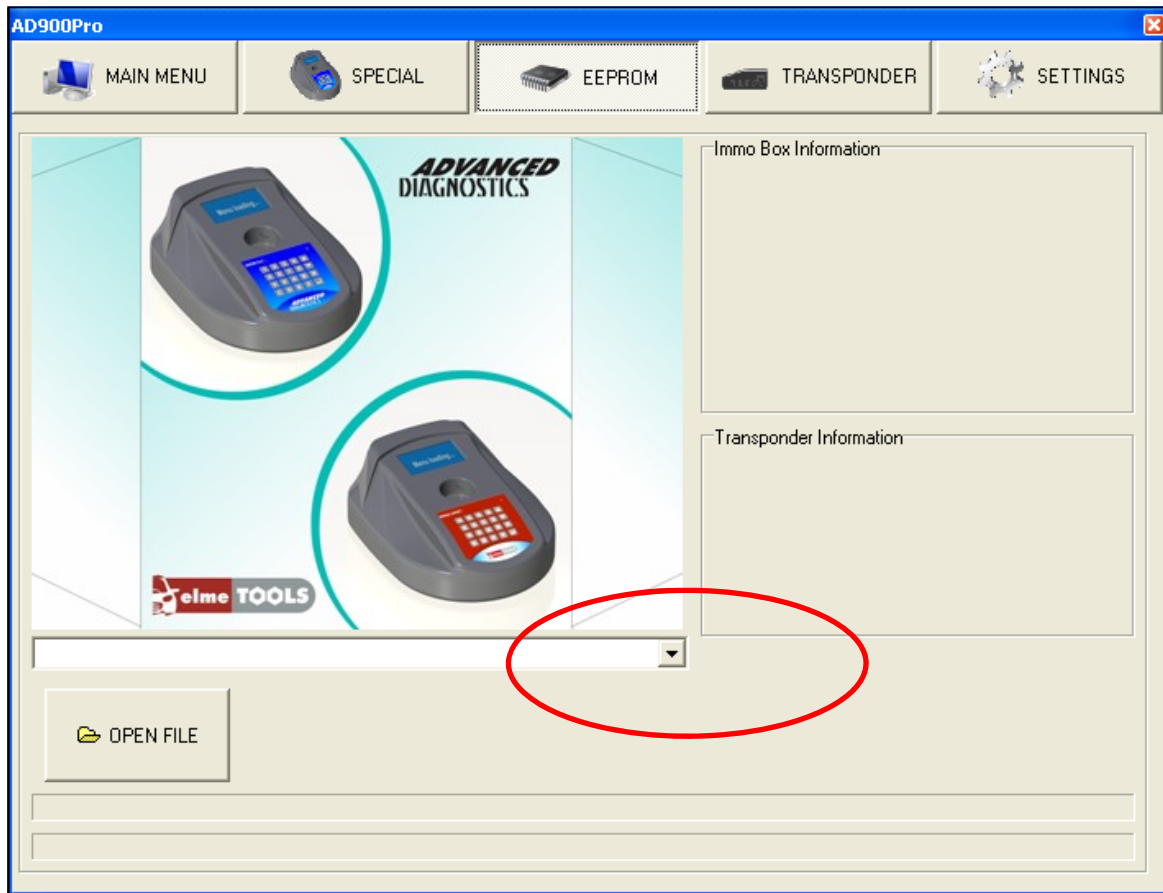


EEPROM



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.

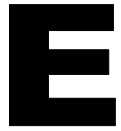
Method 2 - Writing to the transponder only.

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.

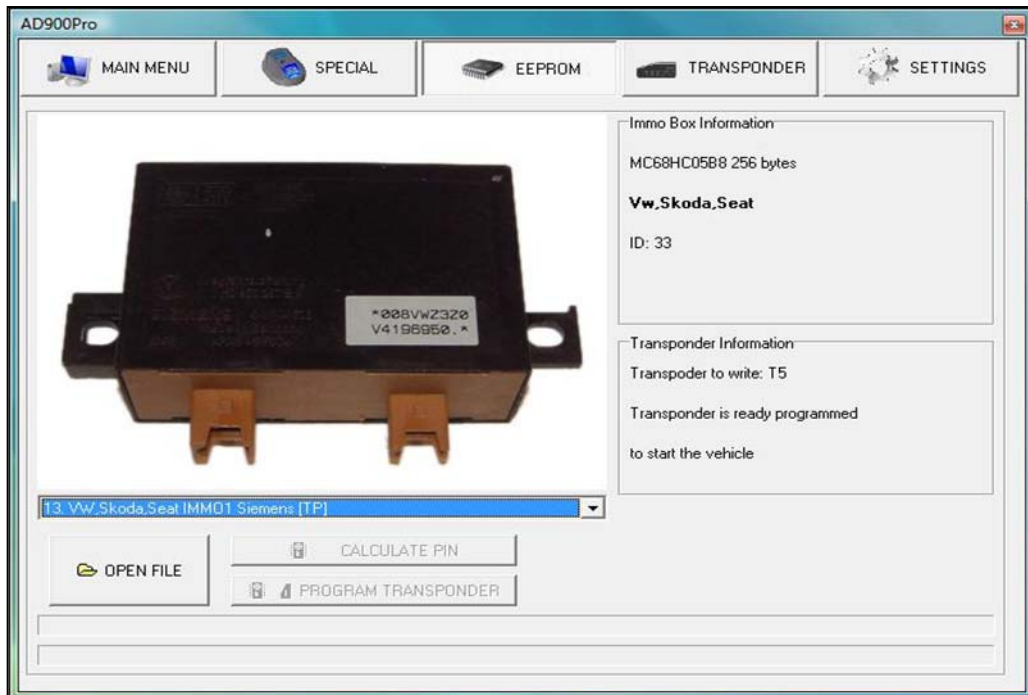
AD900Pro - PC SOFTWARE



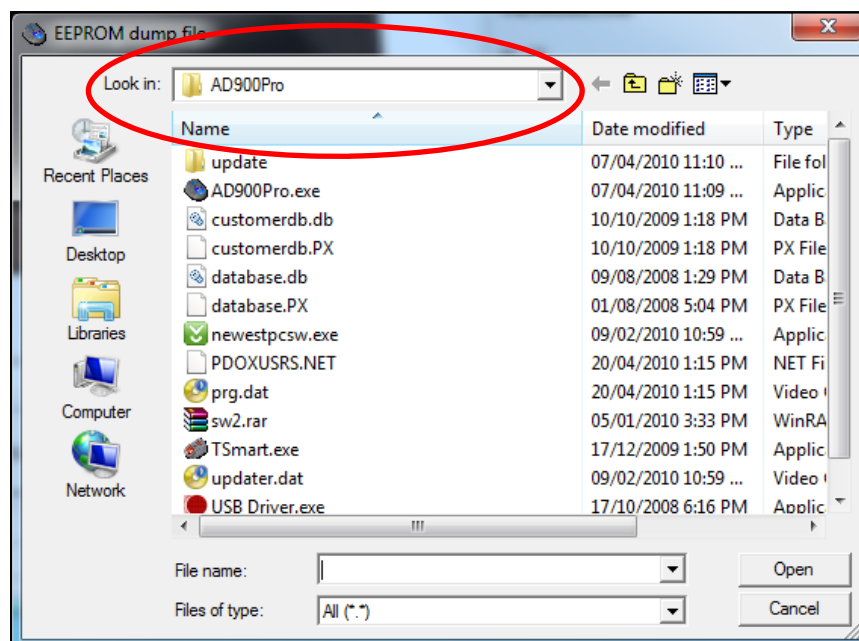
METHOD 1 - Obtains the pin code and writes the key in the menu.

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

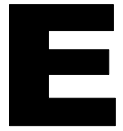
- A. Select the module from the drop down menu.



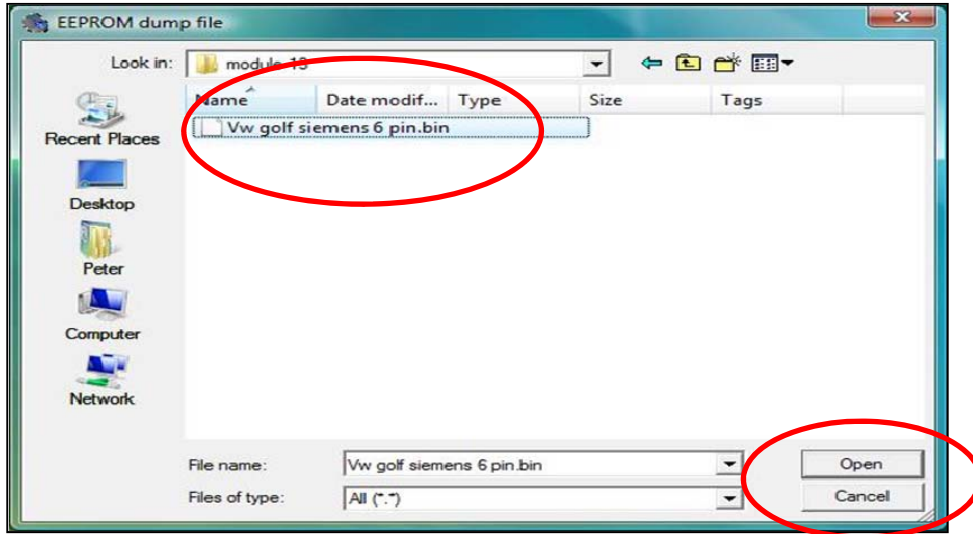
- B. Click the **OPEN FILE** button and point to the location you have saved the EEprom or Processor file (dump) that you have read with your programmer



AD900Pro - PC SOFTWARE



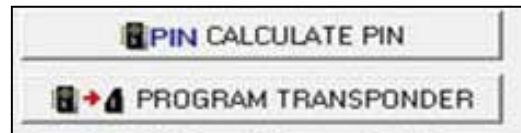
C. Select the file that you need and click **Open**.



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.

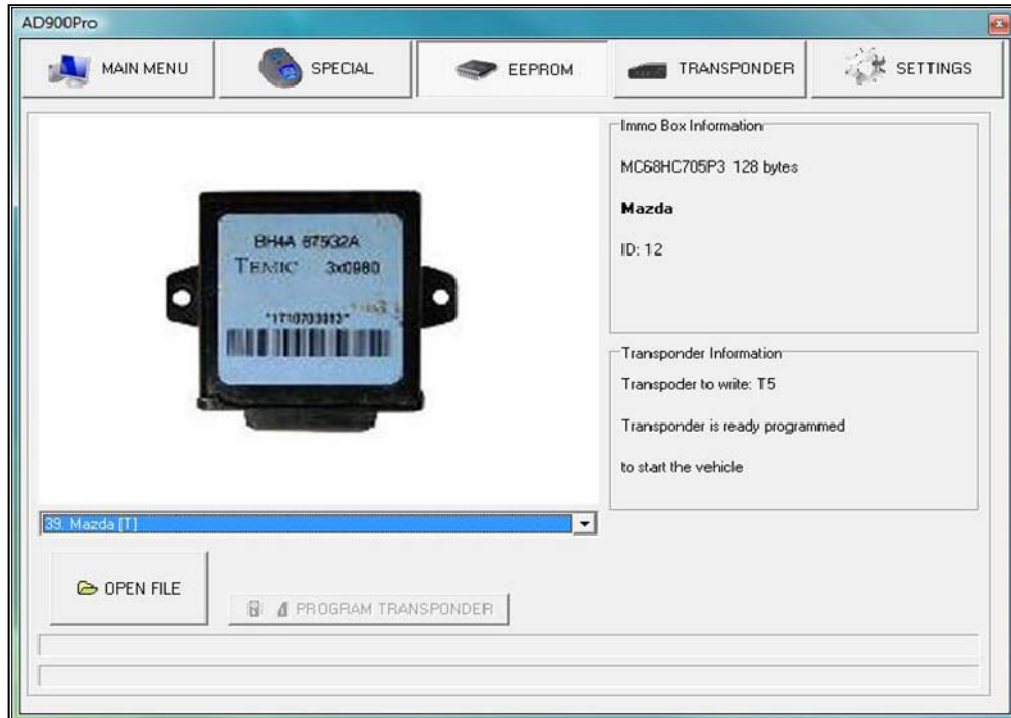
AD900Pro - PC SOFTWARE



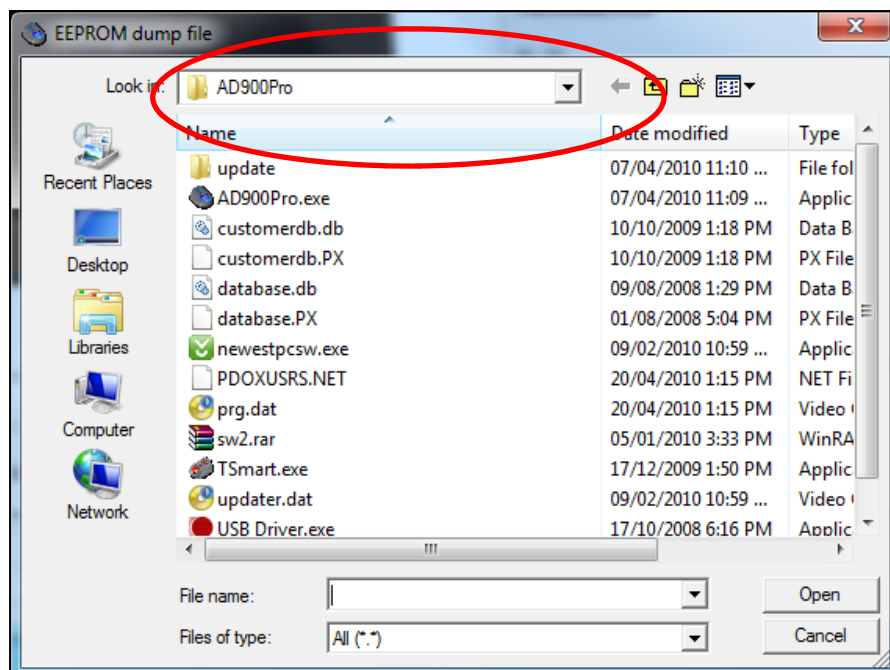
METHOD 2 - Writing to the transponder only.

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

- A. Select the module from the drop down menu.



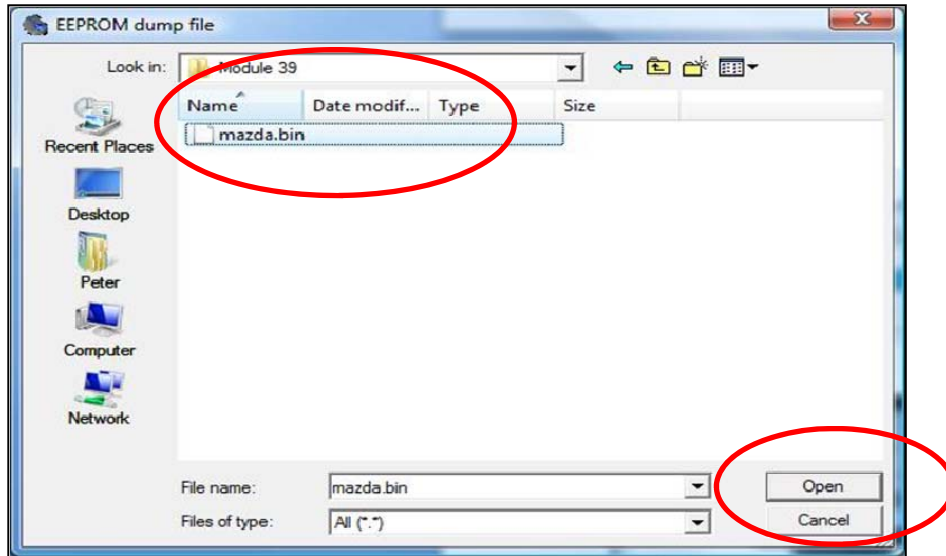
- B. Click the **OPEN FILE** button and point to the location you have saved the EEprom or Processor file (dump) that you have read with your programmer



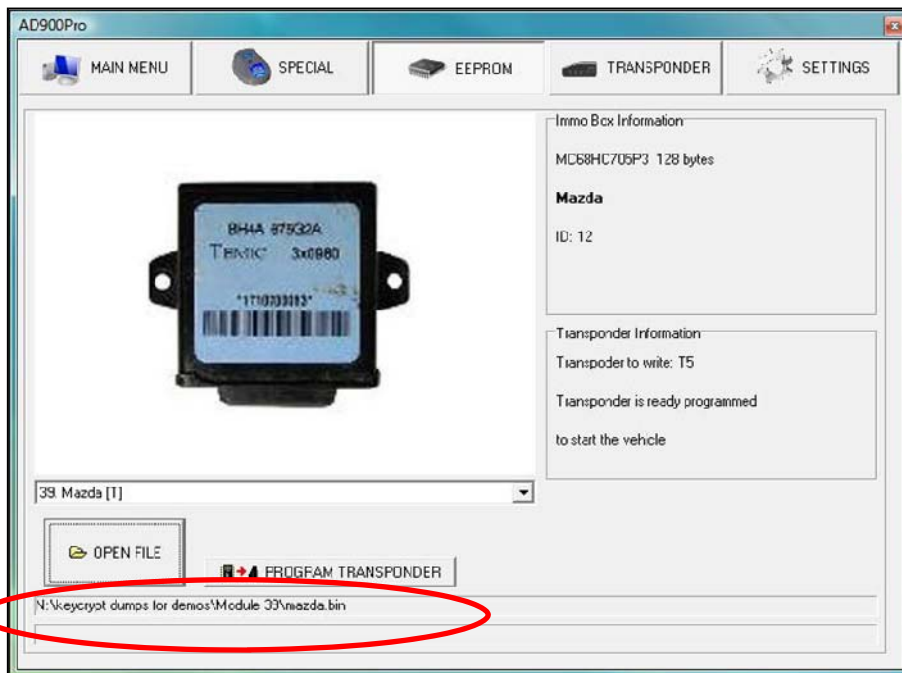
AD900Pro - PC SOFTWARE



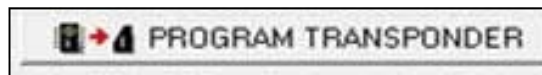
C. Select the file that you need and click **Open**.



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.



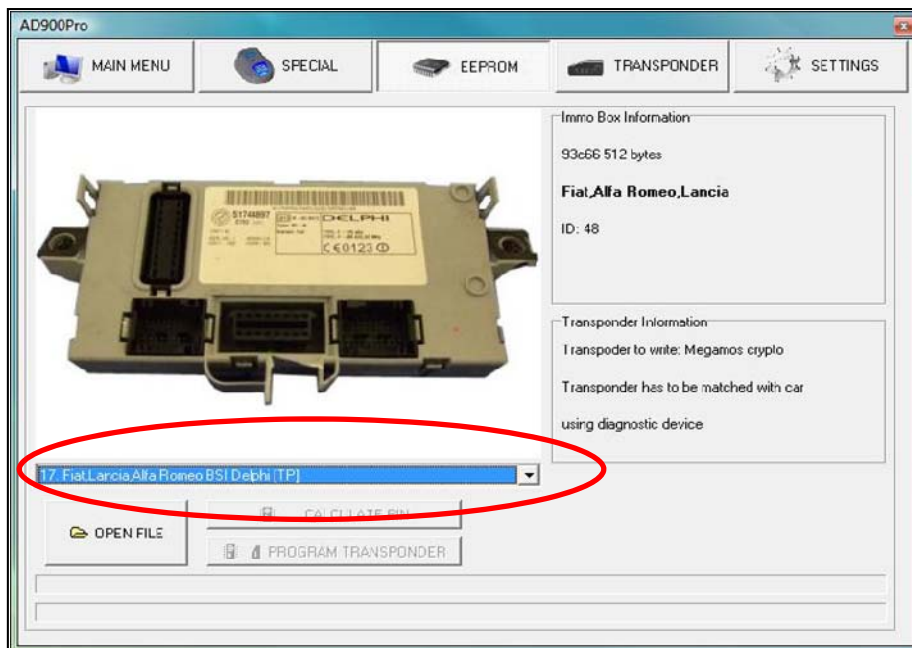
AD900Pro - PC SOFTWARE



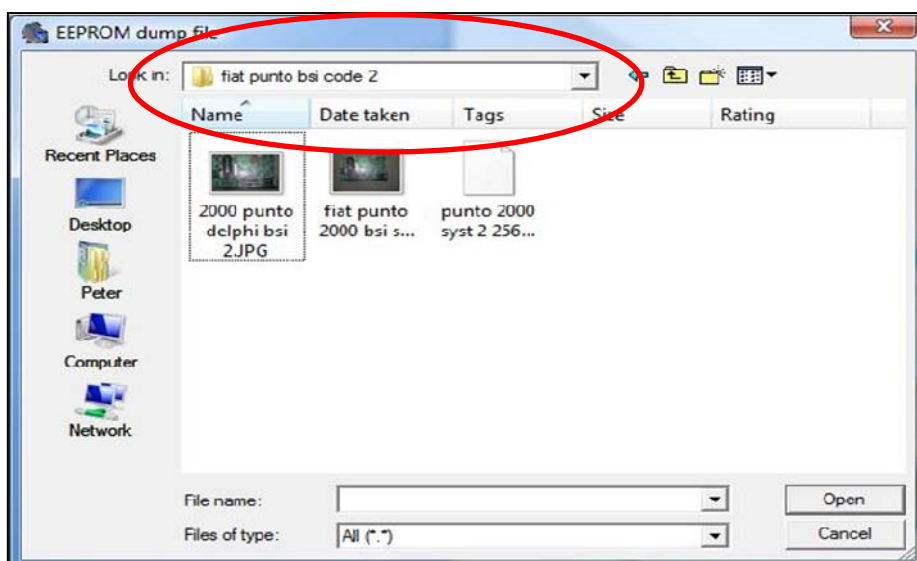
METHOD 3 - Pre-coding transponder and reading the pincode. (used by the Fiat and Alfa derivative cars).

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.



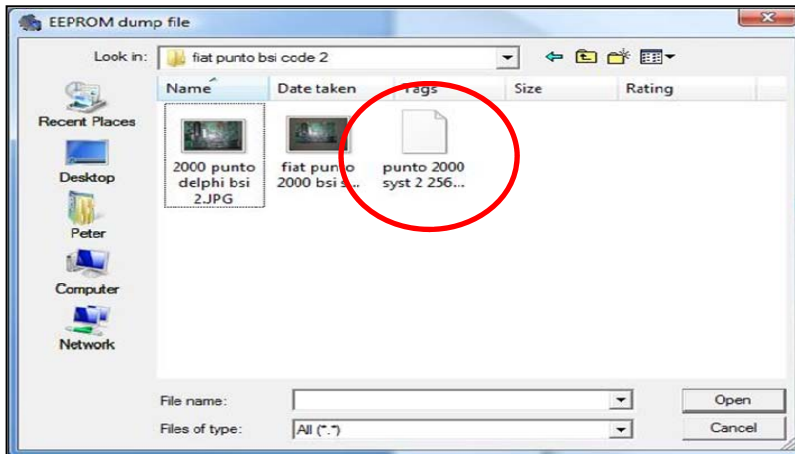
- B. Click the **OPEN FILE** button and point to the location you have saved the EEprom or processor file (dump) that you have read with your programmer



AD900Pro - PC SOFTWARE



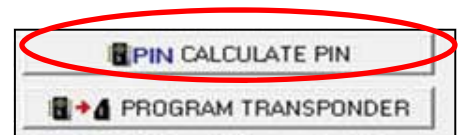
C. Select the file that you need and click **Open**.



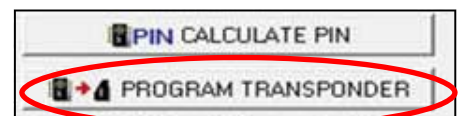
D. The path to the file selected will appear under the **OPEN FILE** button.



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

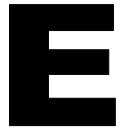


E. Insert a virgin T6 transponder in the AD900Pro and click **Program Transponder**. This will pre-code the transponder.



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

AD900Pro - PC SOFTWARE

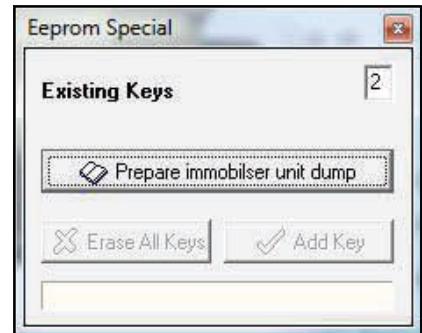


Alternatively the transponder can be prepared so that the car is ready to start with no programming with the diagnostic tool .

A. Click **Prepare immobiliser unit dump**



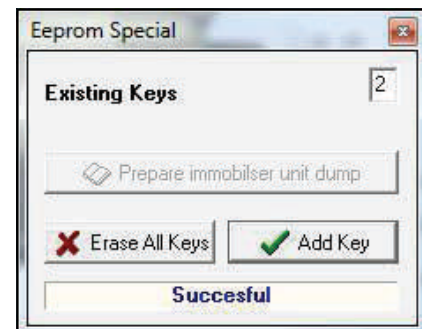
B. The following EEPROM Box will appear, which will advise how many keys are currently programmed (in this case there are 2). Click **Prepare immobiliser unit dump**



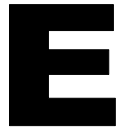
C. This will give you 2 options.

Option 1 - Add Key
Follow step D.

Option 2 - ERASE All Keys
Jump to step E.

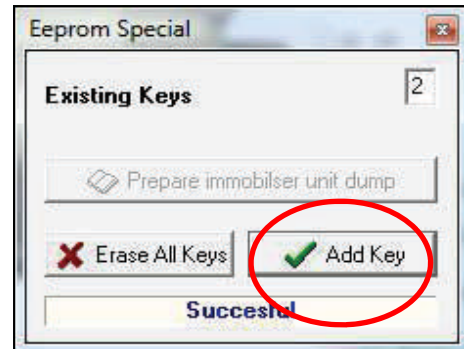


AD900Pro - PC SOFTWARE

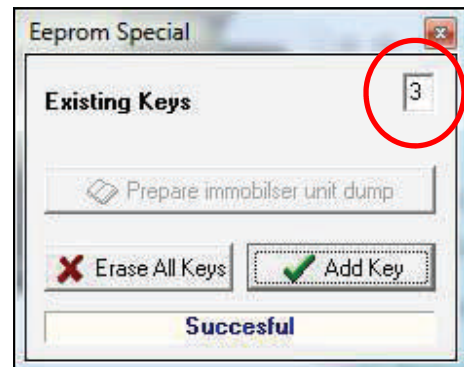


D. Option 1 - ADD KEY

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



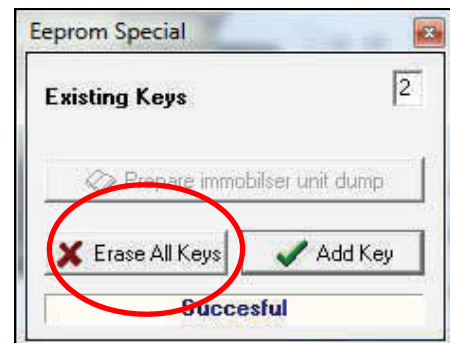
- ii) This will read the locked information from the T6 transponder and write this to the dump, which will be called **New dump.bin**. As you can see it now shows 3 keys.



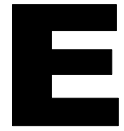
- iii) Now write this dump back to the EEprom with your EEprom reader.
- iv) Fit the immobiliser/Bsi unit back to the vehicle and start it without the use of a diagnostic tool.

E. Option 2 - ERASE ALL KEYS

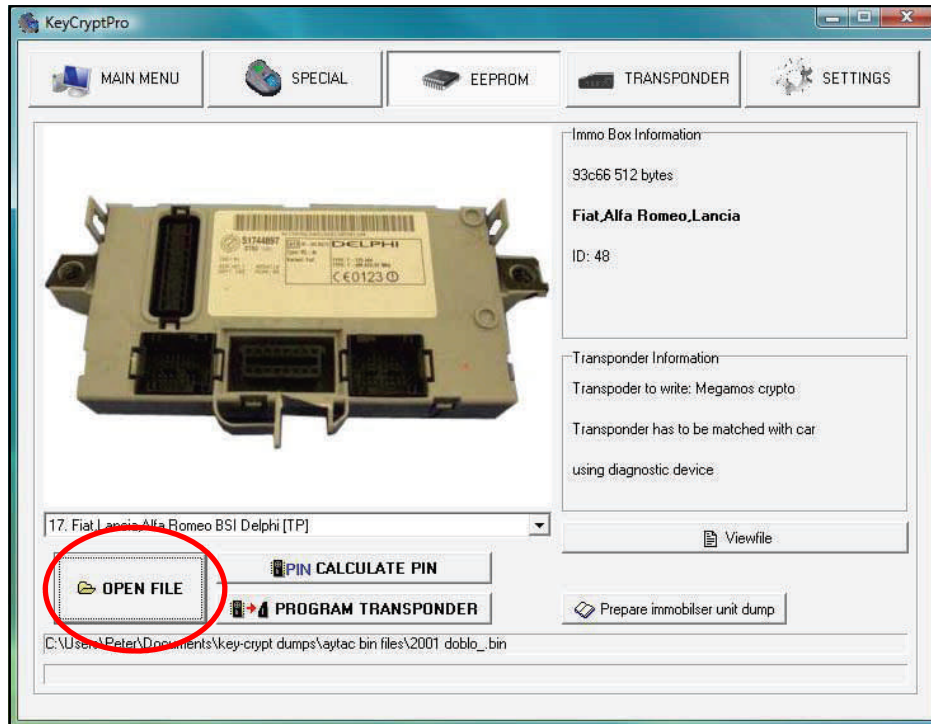
- i) Click the **Erase All Keys** button.



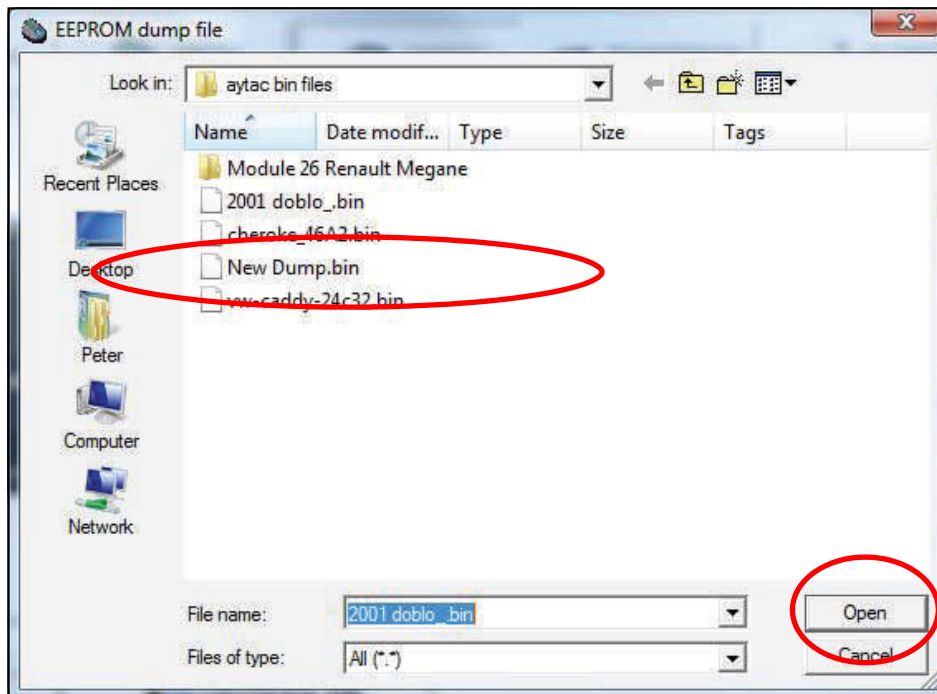
AD900Pro - PC SOFTWARE



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



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



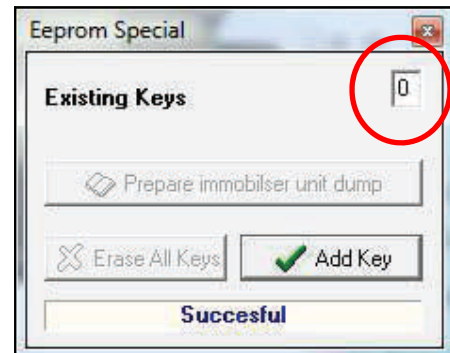
AD900Pro - PC SOFTWARE



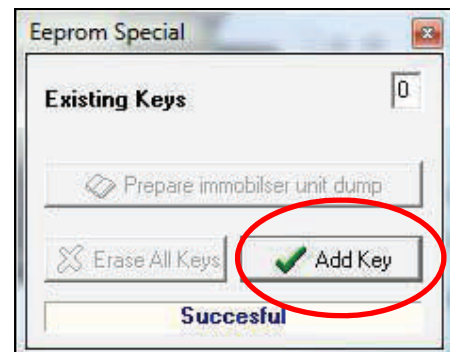
v) Click **Prepare immobiliser unit dump**



vi) 0 keys will be displayed.

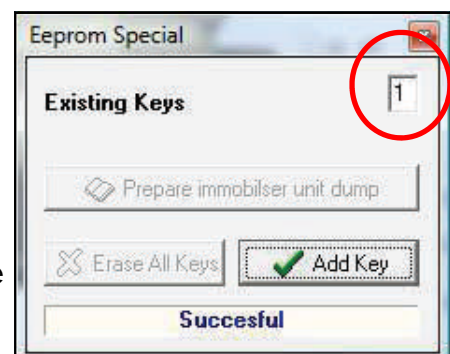


vii) Click **Add Key**.



viii) 1 key will be displayed.

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



AD900Pro - PC SOFTWARE

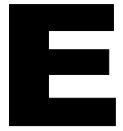


NOTE:

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



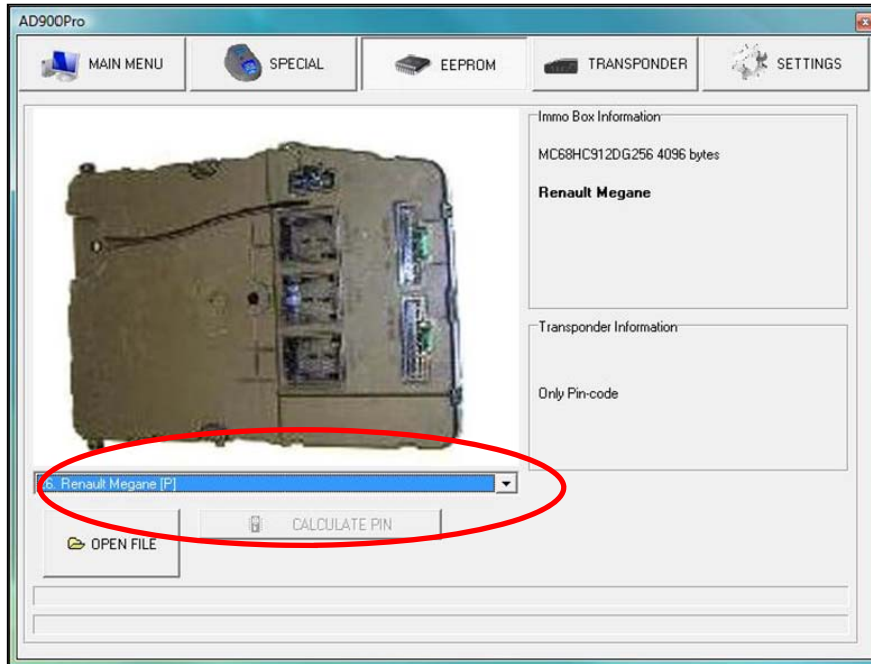
AD900Pro - PC SOFTWARE



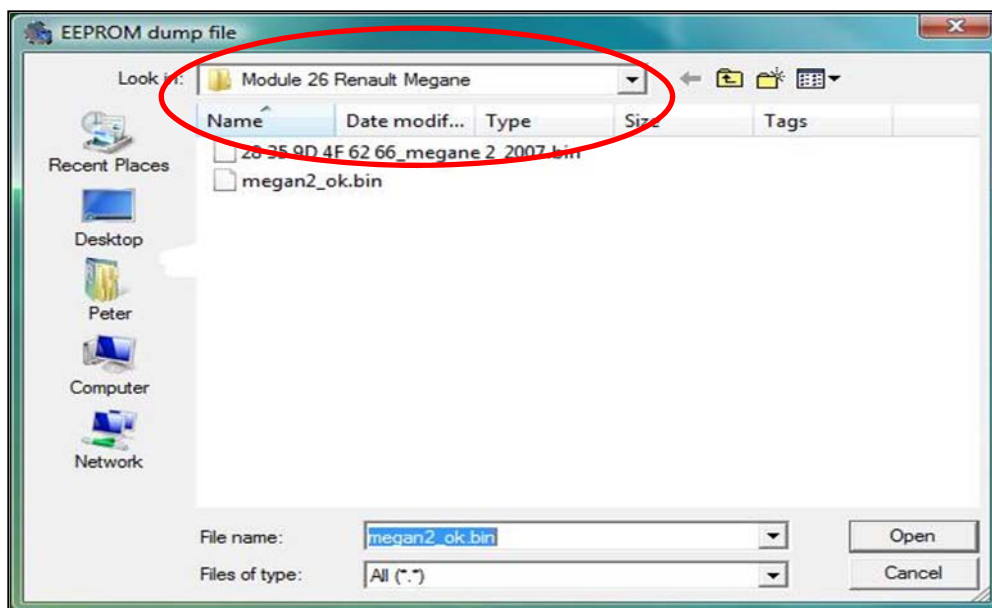
METHOD 4 - Read the pin code only (as used on any vehicles using the Phillips crypto 2 (id46) chips).

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

- A. Select the module from the drop down menu.



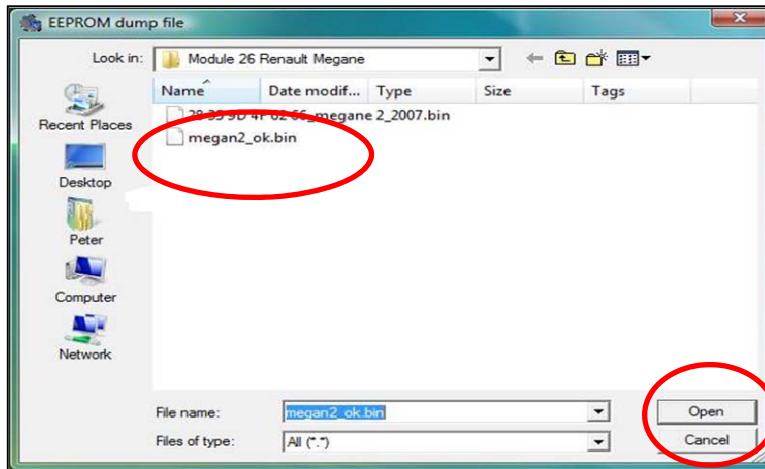
- B. Click the **OPEN FILE** button and point to the location you have saved the EEprom or processor file (dump) that you have read with your programmer



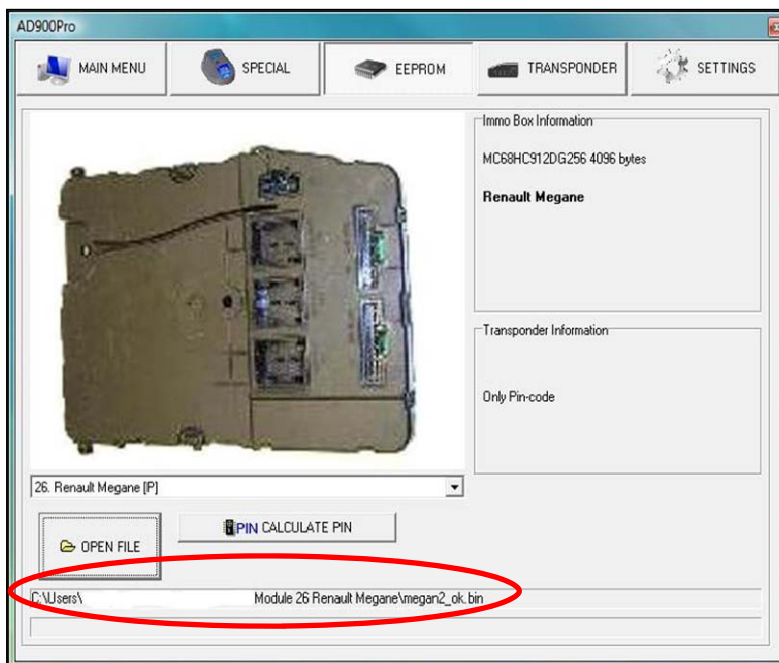
AD900Pro - PC SOFTWARE



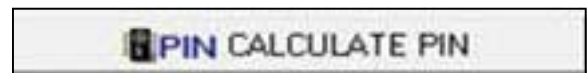
C. Select the file that you need and click **Open**.



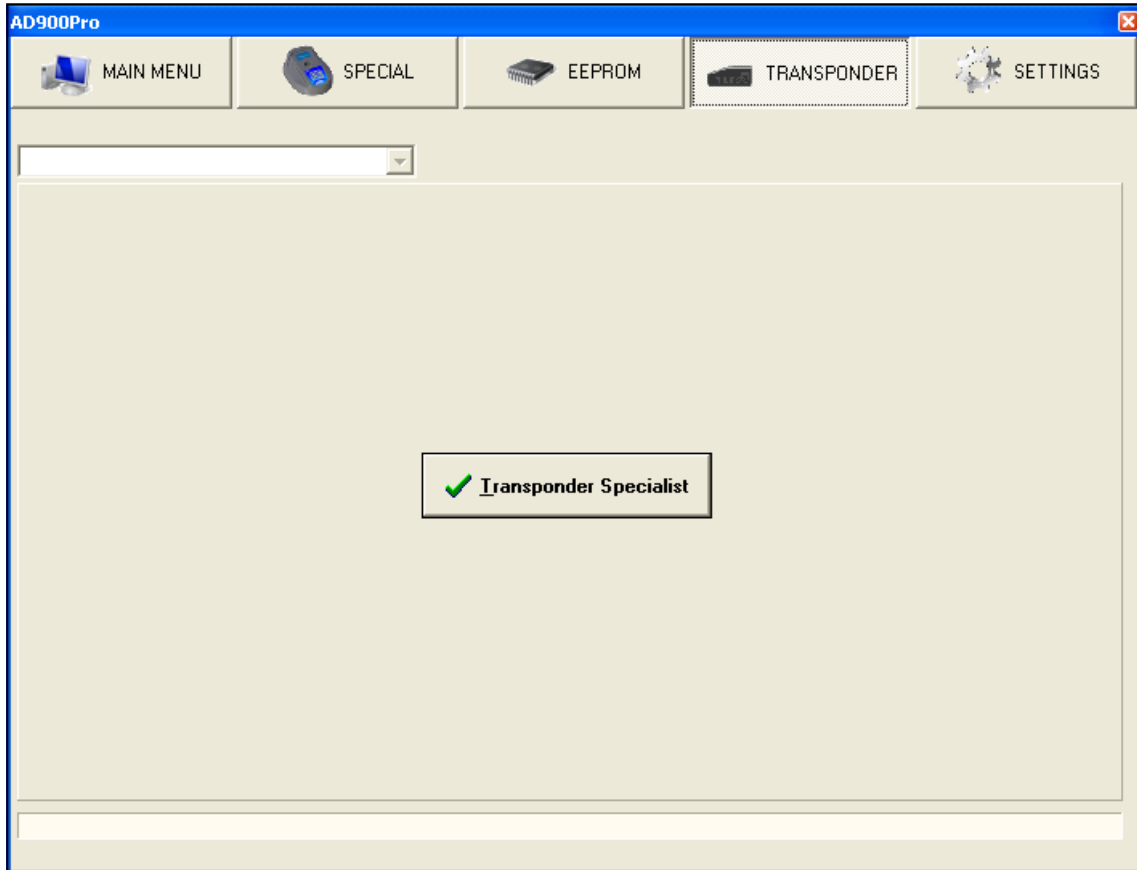
D. The path to the file selected will appear under the **OPEN FILE** button.



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.



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.

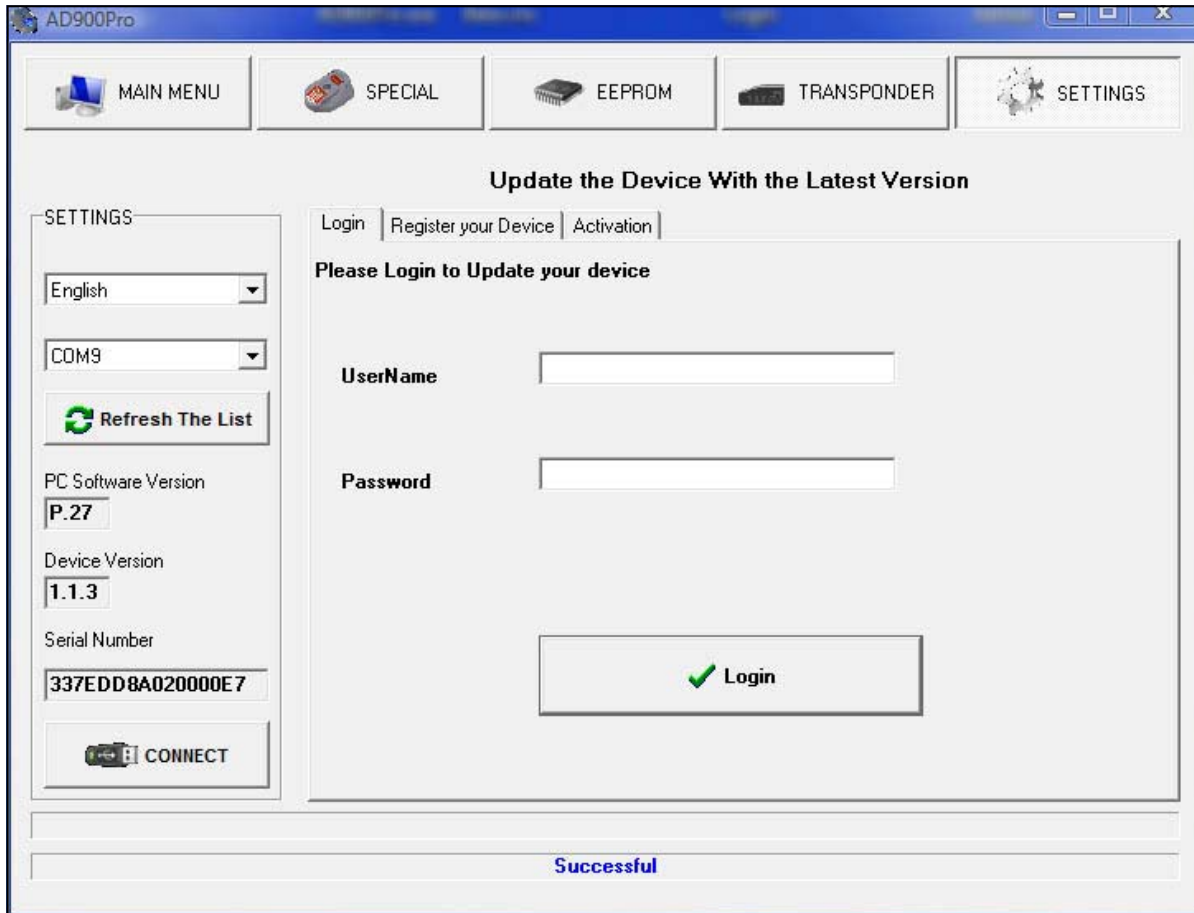
Re-Programming Renault Remote Controls

1. Carefully take Renault key card apart.
2. Remove the PCF7946/47 chip/transponder.
3. Replace with a virgin PCF7946/47 chip/transponder.
4. Put the Renault key card with the virgin chip/transponder into the reading area
5. Select the correct key card from the pull down menu.



6. Clicks **PROGRAM** on this page.
7. Program the new key card into car with the AD100Pro/MVP Pro

SETTING



The **SETTINGS** page allows the following:

Language
Com Port

- Select language
- Select correct com port that the tester is connected to. (Normally this does not need to be changed)

PC Software Version*
Device Version*
Serial Number*
Status*

- Software version currently loaded on the PC.
- Software version currently loaded on the tester.
- Serial number of the tester.
- 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:
Activation:

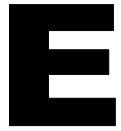
- Only needs to be completed once.
- When you have registered your device you will receive an e-mail back that contains an activation code. This code needs to be entered on this screen to activate the device. Only needs to be completed once.

Forgotten Password

- Used to request a new password.

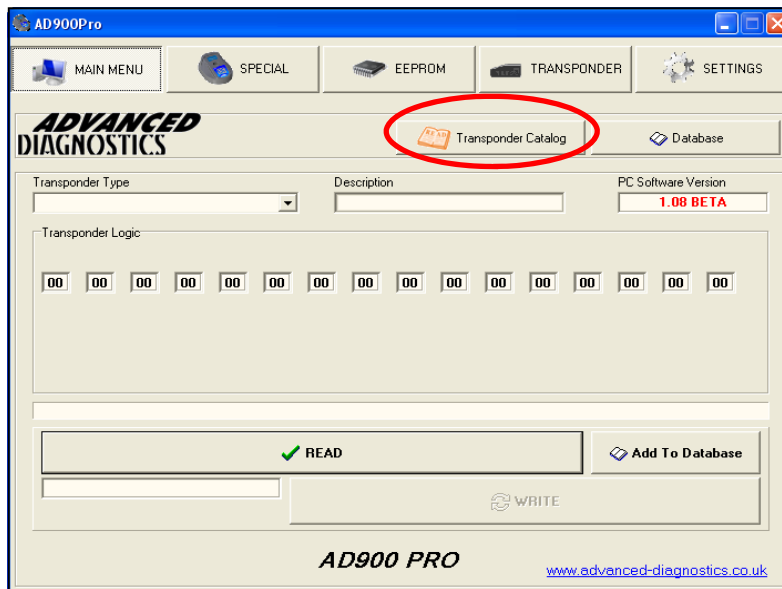
Note: You may need to click **CONNECT** to display the information above (*).

AD900Pro - PC SOFTWARE

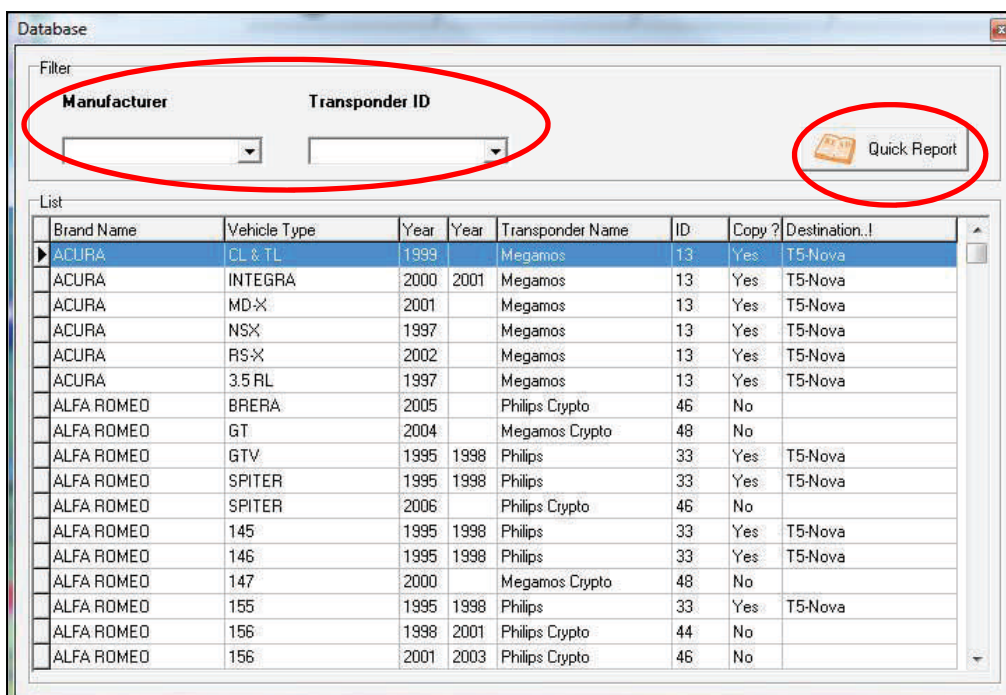


TRANSPONDER CATALOGUE

- 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**



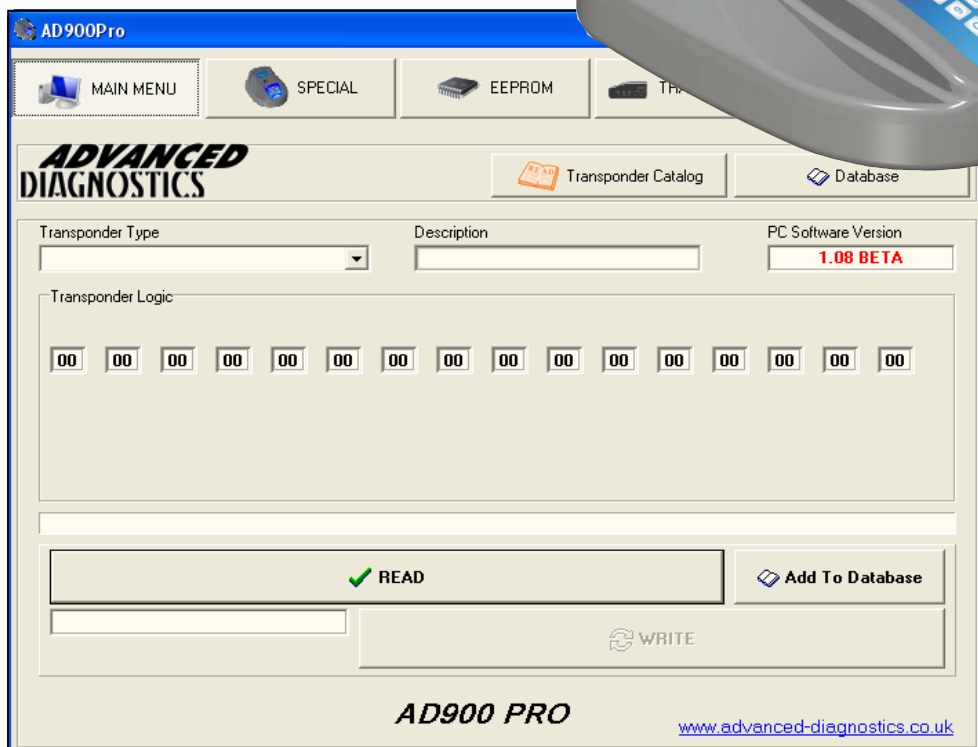
- C. You can either search by Manufacturer, Transponder ID or simply scroll down the list.



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

SECTION F

AD900Pro PC SOFTWARE INSTALLATION & UPDATE PROCEDURE



AD900Pro - SOFTWARE INSTALLATION **F**

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

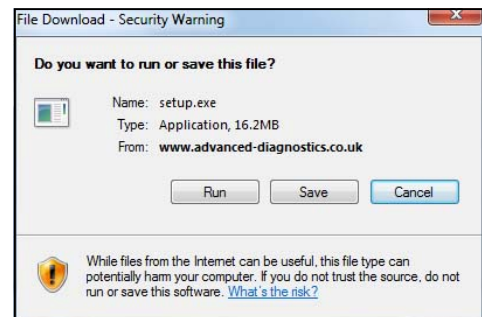
First step is to install the loader program. Do not connect the AD900Pro tester until instructed.

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

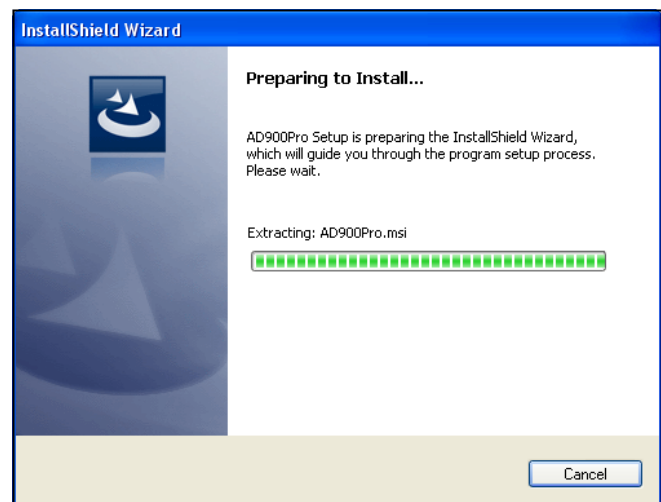
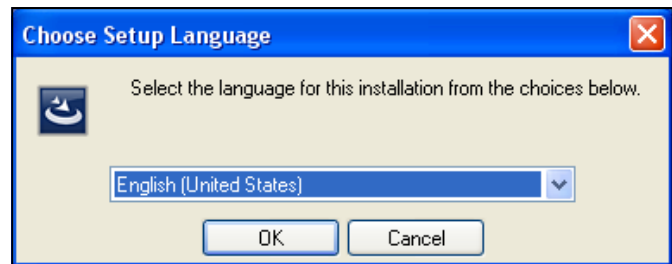
Right click on the setup.exe icon on the desktop.

Select **Run as administrator**.

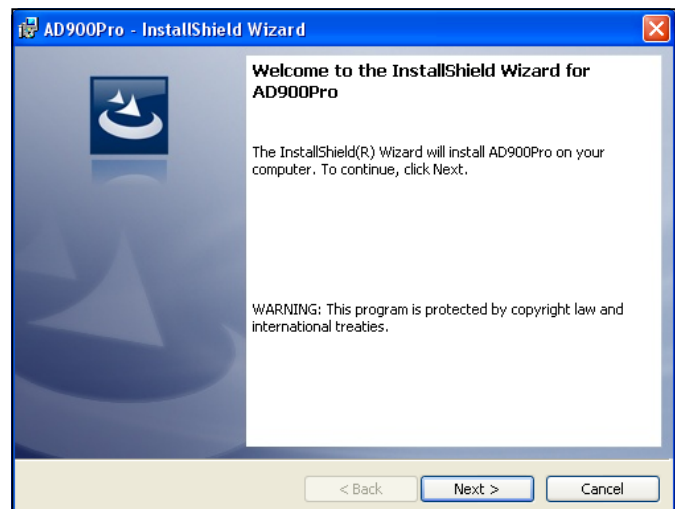
Click **Yes** to the User Account Control dialogue box.



G. Select Language & click **OK**

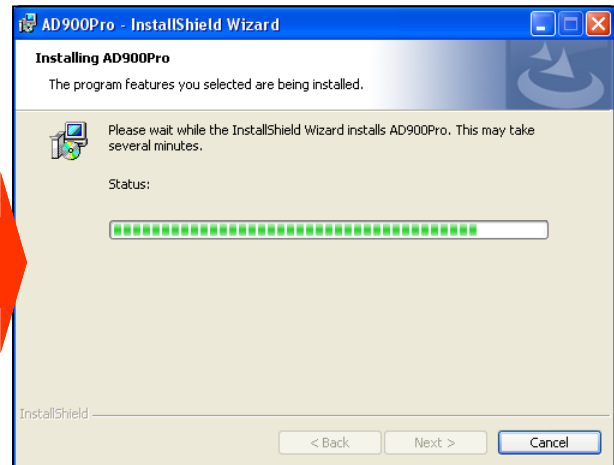
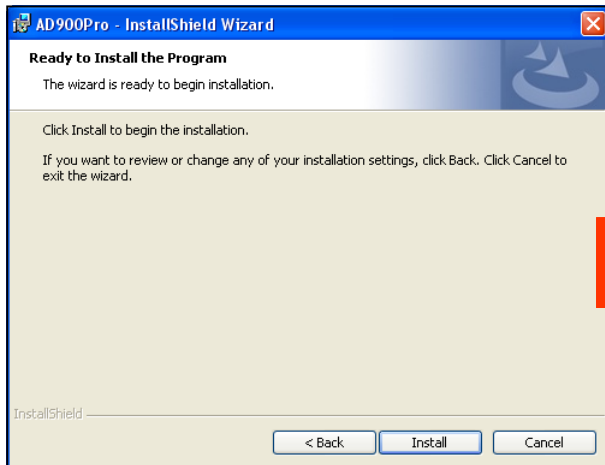


H. Click **NEXT**

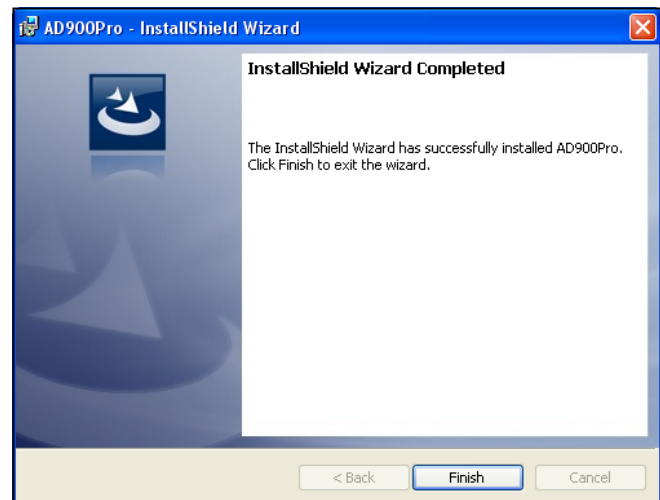


AD900Pro - SOFTWARE INSTALLATION **F**

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



AD900Pro - SOFTWARE INSTALLATION **F**

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



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**

The screenshot shows the AD900Pro software interface. At the top, there are tabs for MAIN MENU, SPECIAL, EEPROM, TRANSPONDER, and SETTINGS. The SETTINGS tab is active. On the left, there are settings for language (English), COM port (COM1), and a Refresh The List button. Below that, it shows PC Software Version 1.23 and fields for Device Version and Serial Number. A CONNECT button is at the bottom left. On the right, there is a section titled 'Update the Device With the Latest Version' with sub-tabs for Login, Register for Device, and Activation. The 'Register for Device' sub-tab is selected and circled in red. Below this, there is a text prompt 'Please Register to be able to update your Device' and three input fields for Username, Password, and E-mail. A Register for Device button is at the bottom right of this section.

- 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)

This screenshot is identical to the one above, showing the 'Register for Device' tab. In this image, the three input fields for Username, Password, and E-mail are circled in red, indicating where the user should enter their registration information.

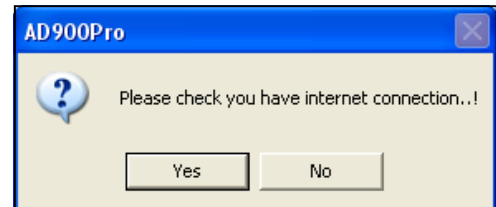
AD900Pro - Registration & Activation



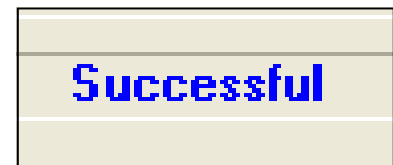
- I. Click **Register For Device**.



- 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.

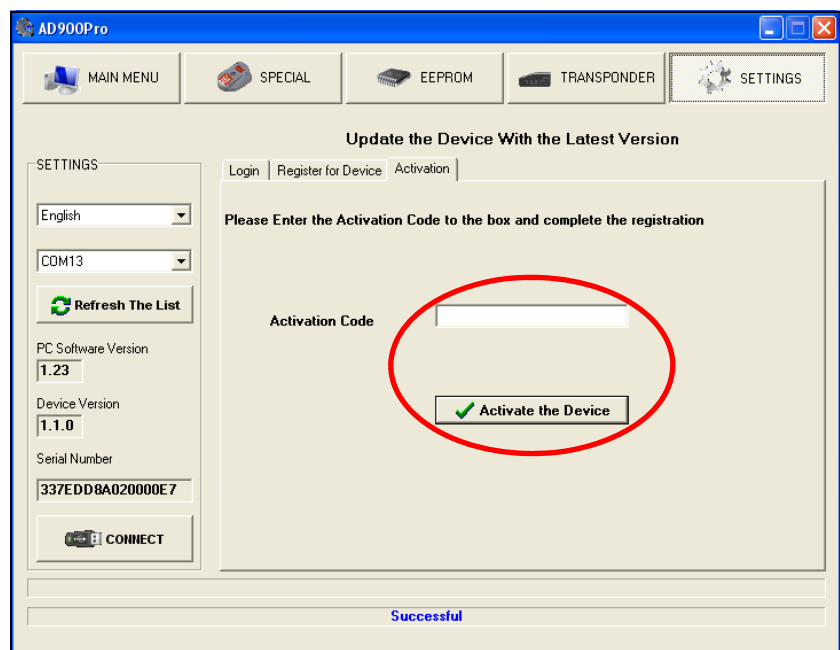


- L. You will receive an e-mail back to the e-mail address you entered that will confirm the following:

Please do not reply to this e-mail

User Name : tester
Password : 1234
Activation Code : 5C90F929

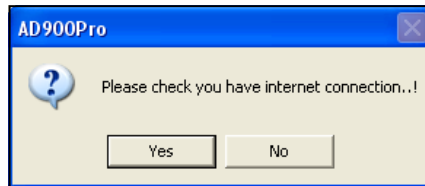
- M. Select the **Activation tab**, enter the activation code and click **Activate the Device**



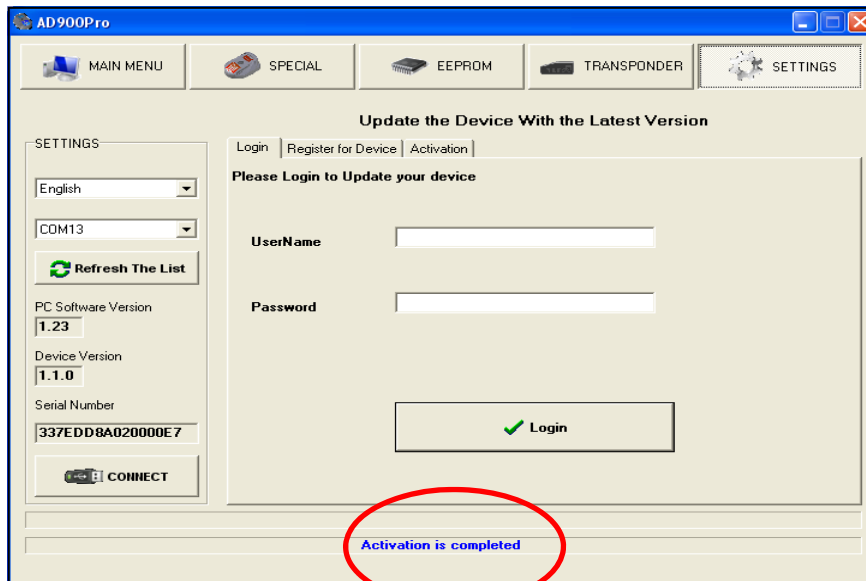
AD900Pro - Registration & Activation



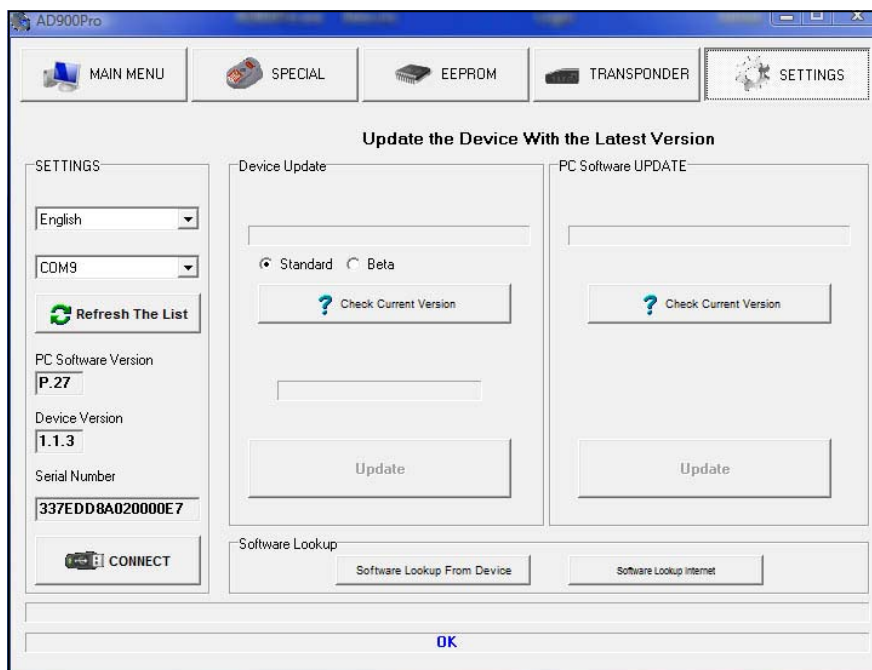
N. Confirm you have an internet connection



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.



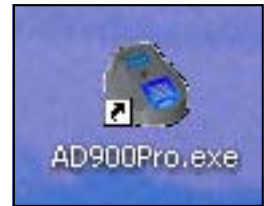
AD900Pro - SOFTWARE UPDATE

F

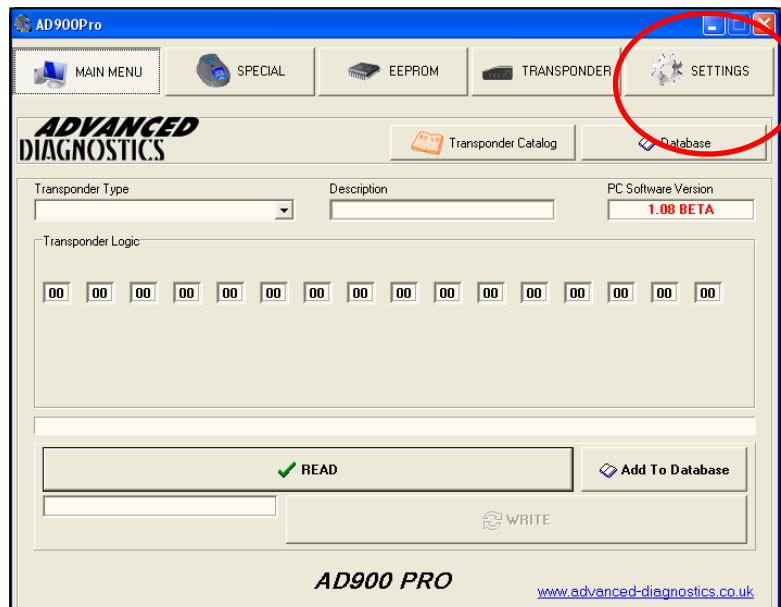
PC Software Update Procedure

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**

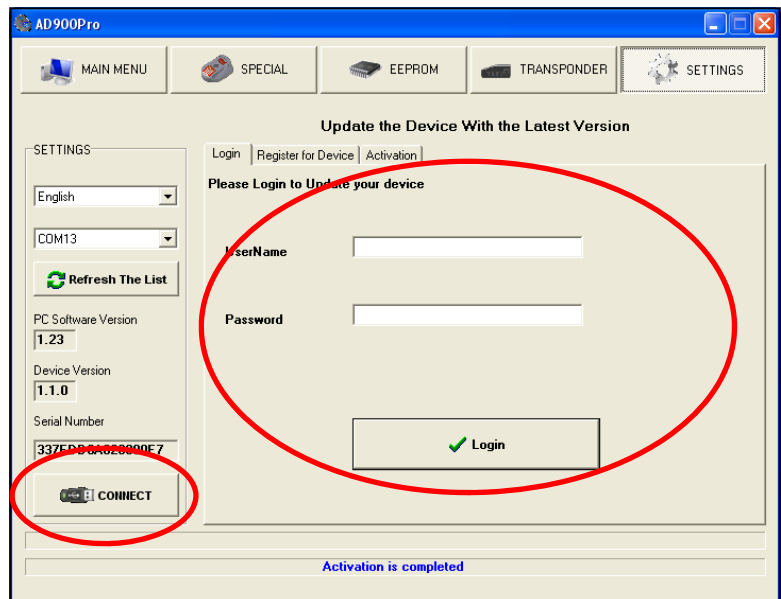


- F. Enter Username & Password and click **Login**

Note:

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

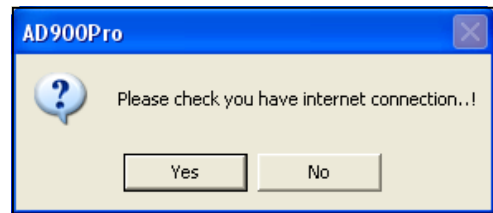
- G. Click **Connect**



AD900Pro - SOFTWARE UPDATE

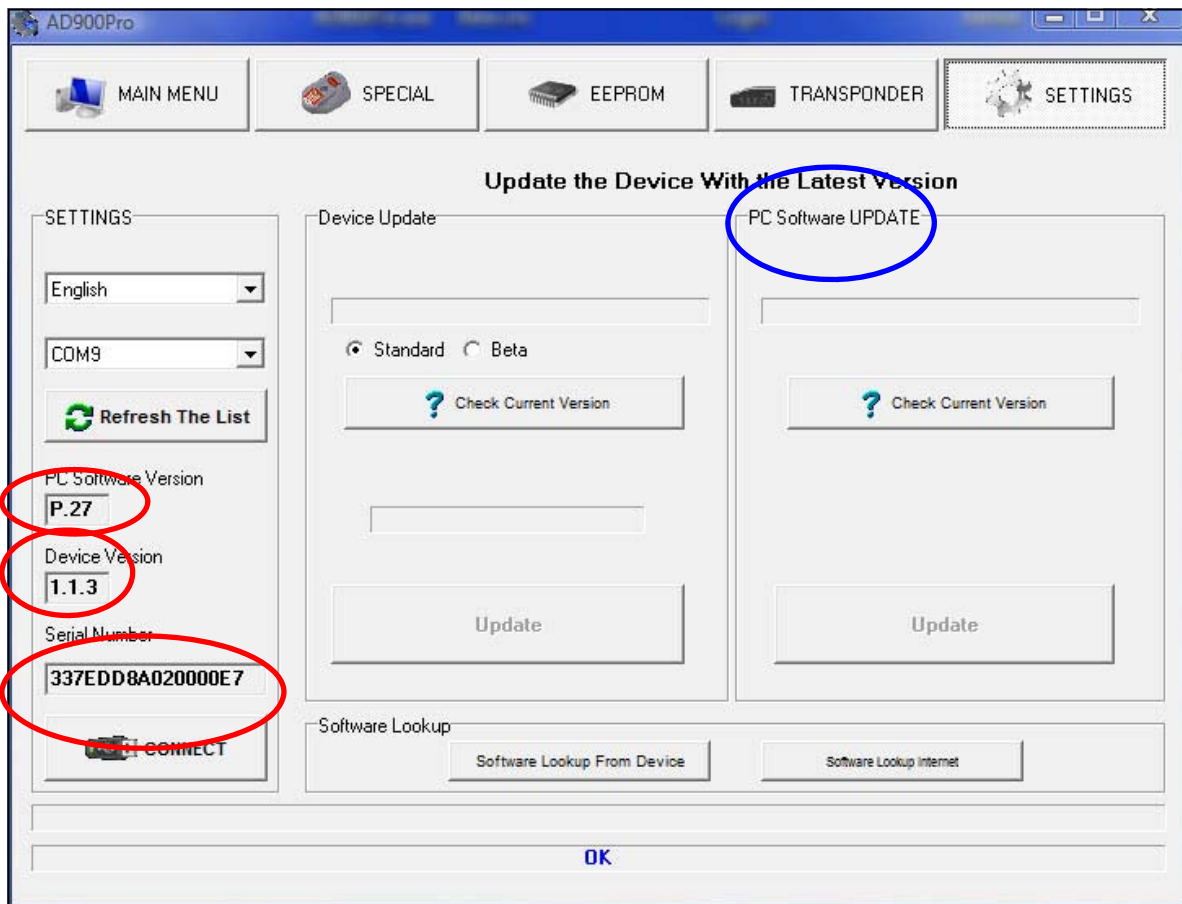


H. Confirm you have an internet connection

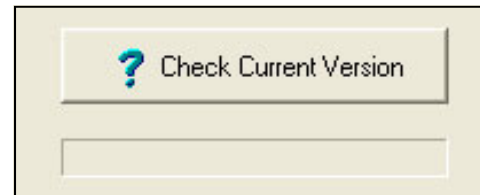


The following screen will then be displayed.

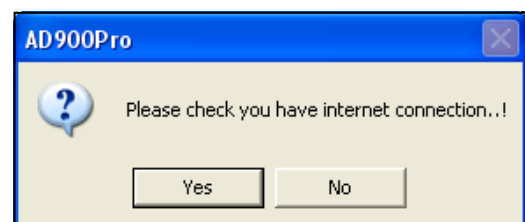
- PC Software Version** - Software version currently loaded on the PC.
- Device Version** - Software version currently loaded on the tester.
- Serial Number** - Serial number of the tester.
- Status** - **OK** will appear at the bottom of the screen.



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



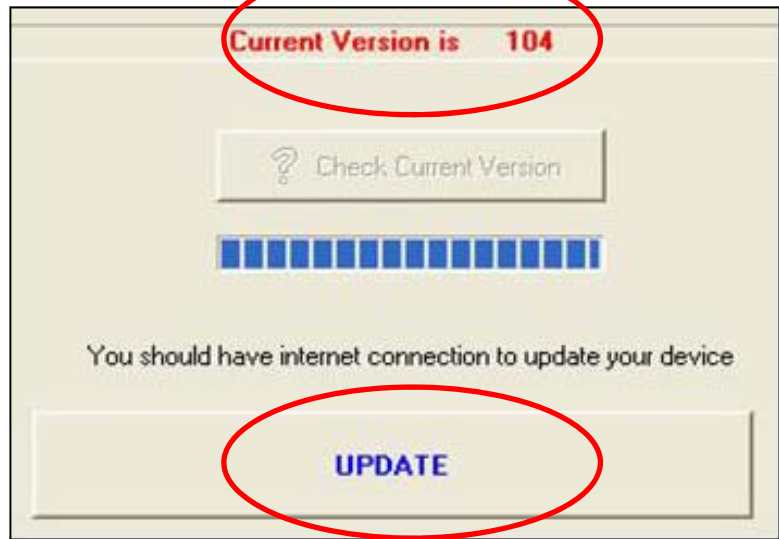
J. Click **YES** to confirm you have internet connection.



AD900Pro - SOFTWARE UPDATE

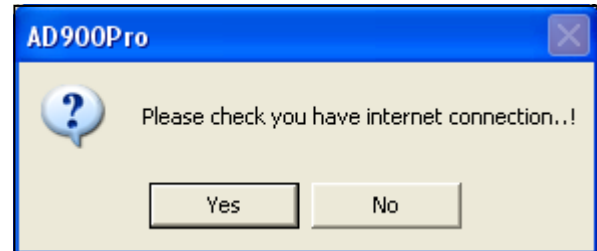
F

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

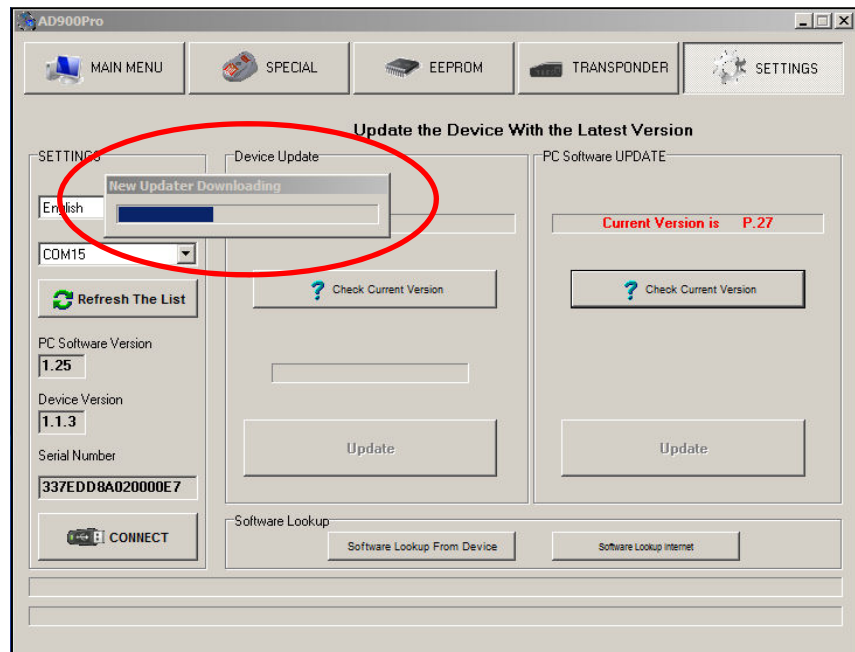


L. Click **UPDATE** to download the latest version of software.

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



N. The updater software will start.

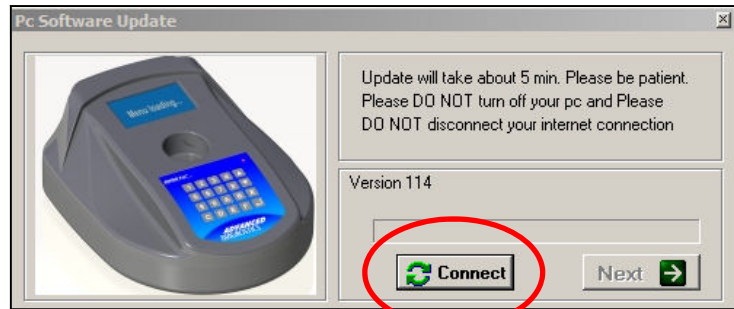


AD900Pro - SOFTWARE UPDATE



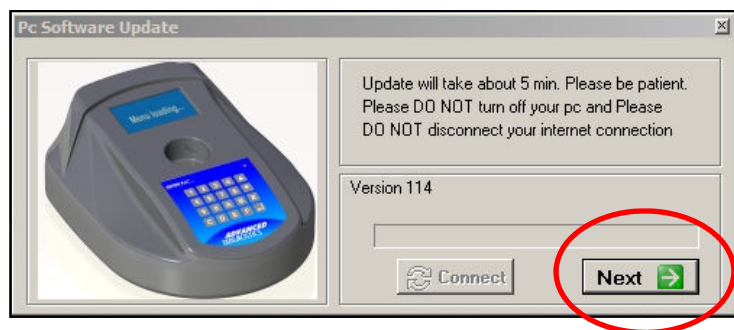
O. The PC Software Update dialogue box will appear.

P. Click **Connect**

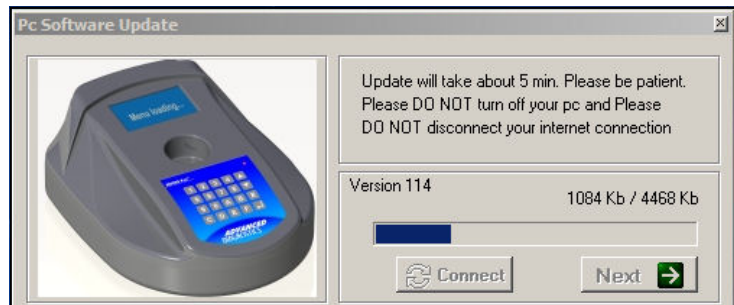


Q. The Next button should be now highlighted.

R. Click **Next**

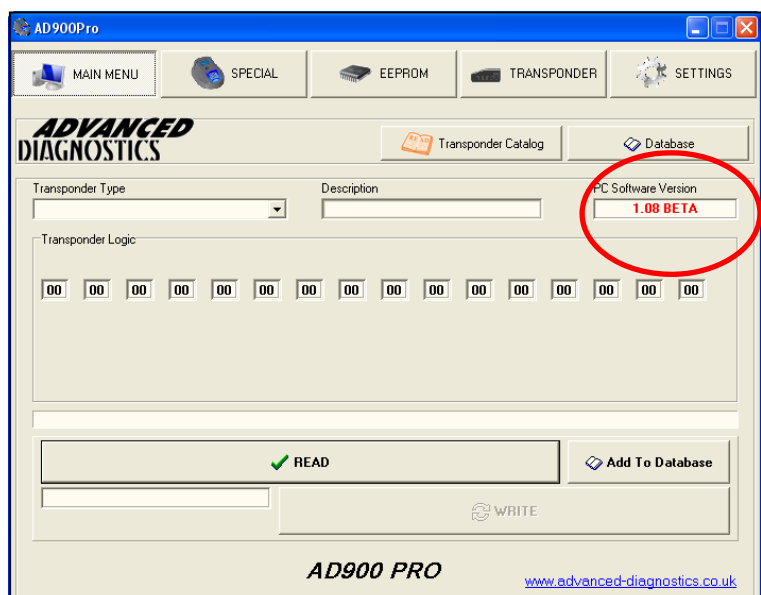


S. The PC software will start to update and will take approx 5 mins.



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

The new PC software version will be displayed.



AD900Pro - SOFTWARE UPDATE

F

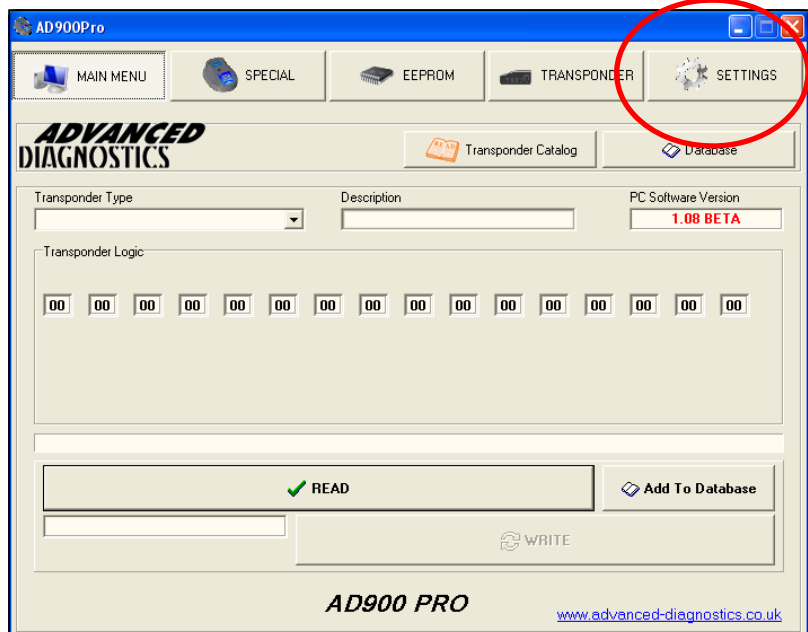
Device Software Update Procedure

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**

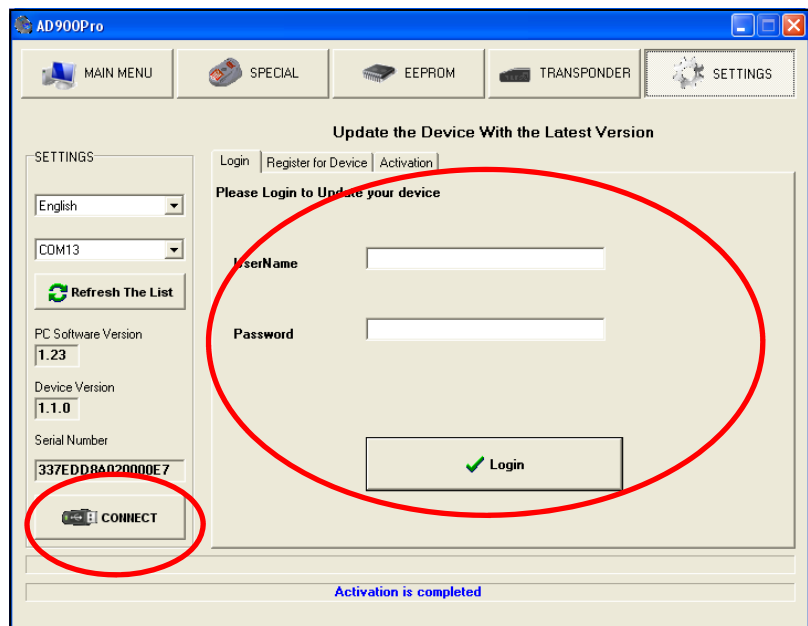


- F. Enter details and Login.

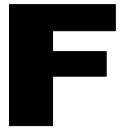
Note:

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

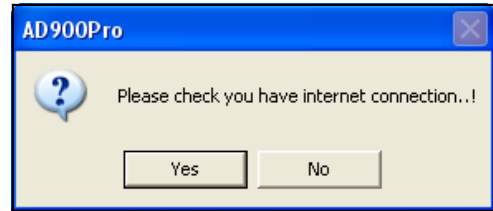
- G. Click **Connect**



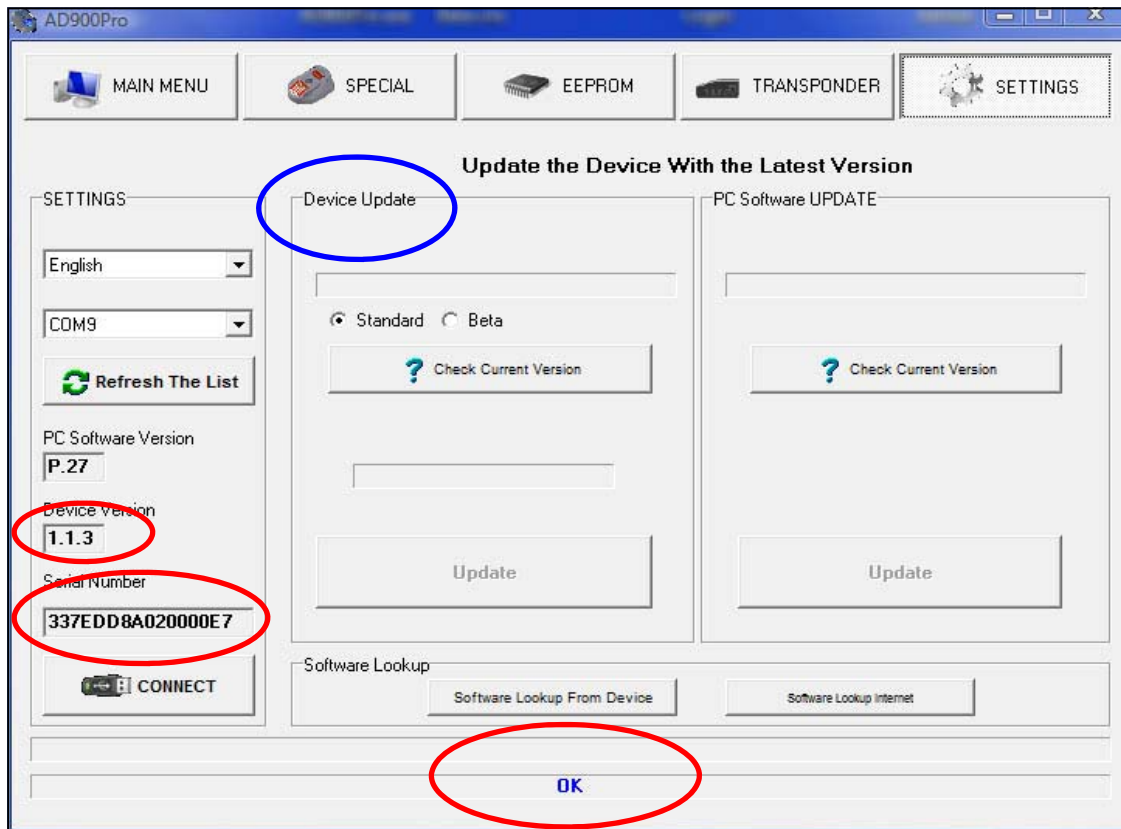
AD900Pro - SOFTWARE UPDATE



H. Confirm you have an internet connection



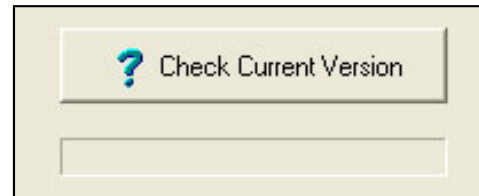
- Device Version** - Software version currently loaded on the tester.
- Serial Number** - Serial number of the tester.
- Status** - **OK** will appear at the bottom of the screen.



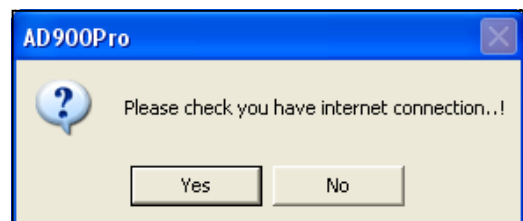
I. Select either Standard or Beta software
Standard - Latest released software.
Beta - New software still under development



J. Click **Check Current Version**.



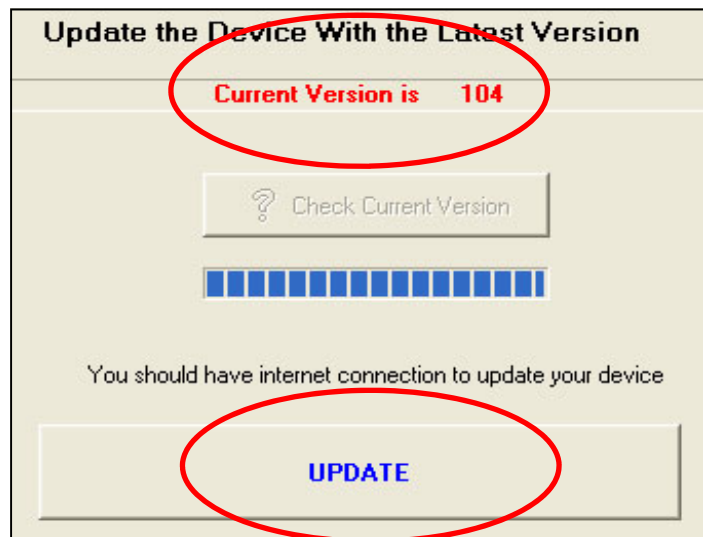
K. Click **YES** to confirm you have internet connection.



AD900Pro - SOFTWARE UPDATE

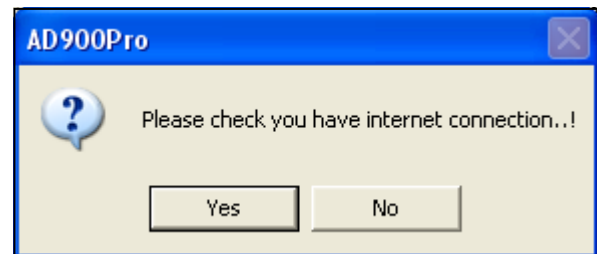


- L. The current software version available on the internet to download will be displayed.

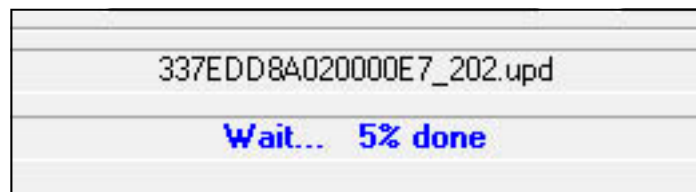


- M. Click **UPDATE** to download the latest version of software.

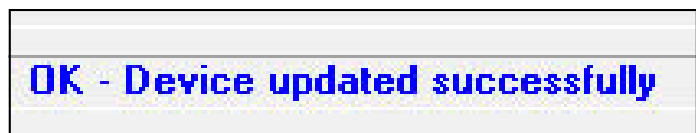
- N. Click **YES** to confirm you have internet connection.



- 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.

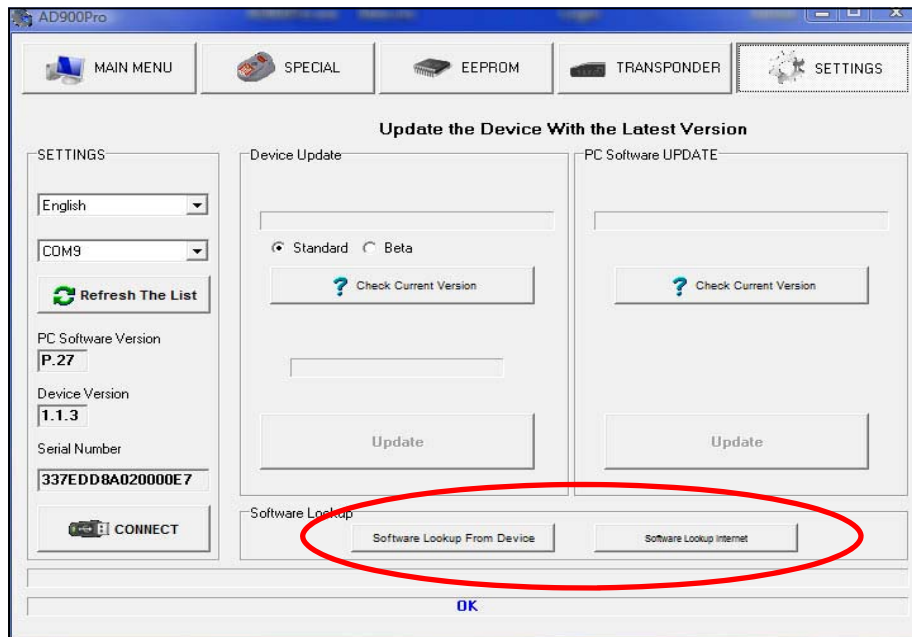


- Q. You can now use your device as normal.

AD900Pro - SOFTWARE UPDATE



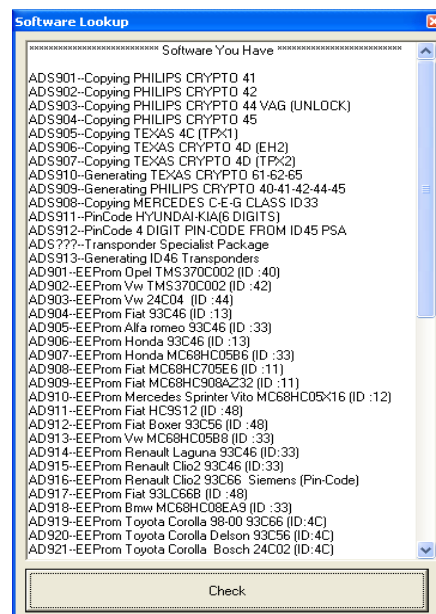
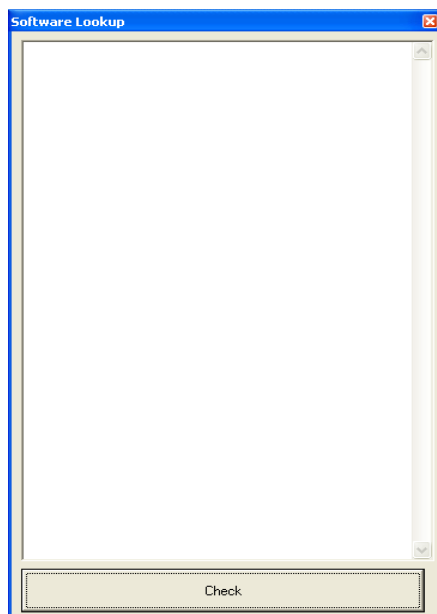
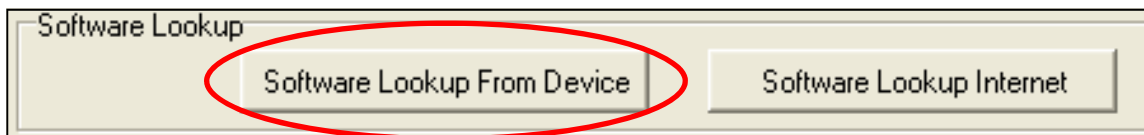
Software Lookup



Software Lookup Device

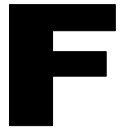
Facility to look at the software modules that you have loaded on your AD900Pro and those that are not.

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

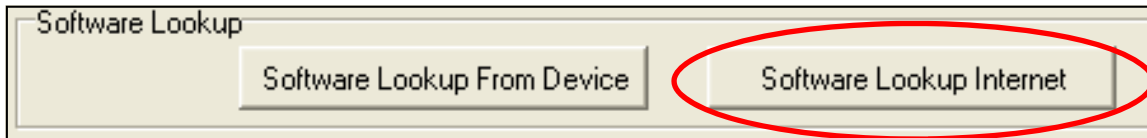


Software Lookup Internet

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.

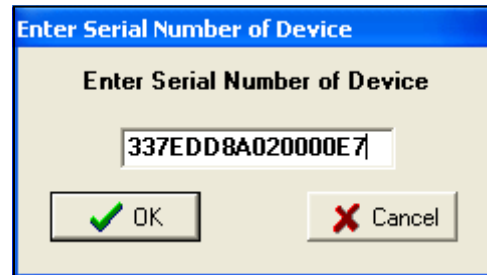
Note: You can only see the software on the tester that you have purchased

1. Click **Software Lookup Internet**

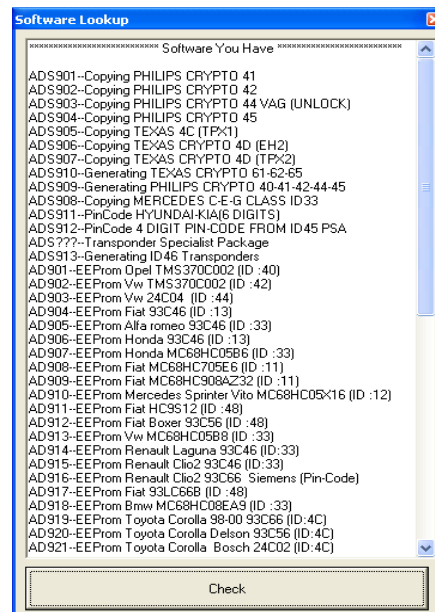


2. Enter the serial number of you're AD900Pro. Note: it will only work for your tester.

3. Click **OK**.



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



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



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