

AD900Pro
TRANSPONDER
DUPLICATING SYSTEM
OPERATING MANUAL



UNLOCKING
TECHNOLOGY



**ADVANCED
DIAGNOSTICS**

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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. Keep the unit in a clean environment.
3. Observe normal health and safety precautions when using this equipment.
4. Incorrect connections may damage sensitive electronic devices fitted to the product and the immobiliser.
5. Observe normal anti static handling procedures when using this device or handling electronic components.

AD900Pro - INTRODUCTION



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

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

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

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

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

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

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

Features:

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

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

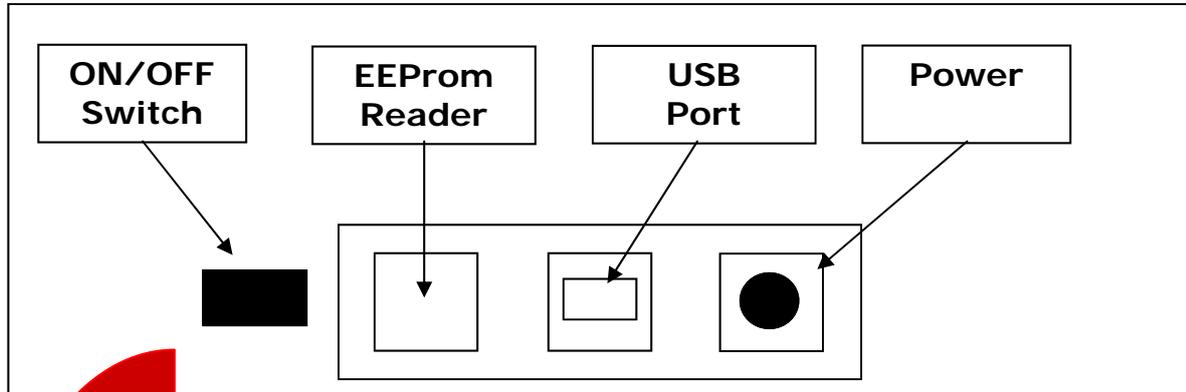
The EEPROM Reading function is an advanced function and also requires an EEPROM-reader.

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

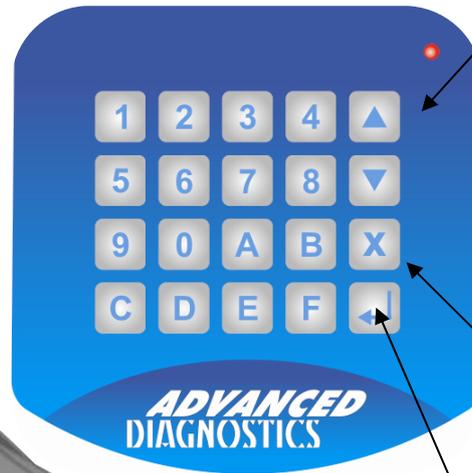
AD900Pro - INTRODUCTION

B

REAR VIEW



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)	ADS905	JMA TPX1	-
	Texas Crypto 4D (SILCA EH2)	ADS906	Silca EH2	-
	Texas Crypto 4D (JMA TPX2)	ADS907	JMA TPX2	-
	Mercedes C-E-G Class ID33	ADS908	Special	AKTP30
	Texas 4D (Keyline TK40)	ADS916	Keyline TK40	-

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

Standard - Supplied as part of the basic package

AD900Pro - FEATURES



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 transponders.	Standard	-	-

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

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

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	-	-

TRANSPONDER SPECIALIST	Part Of	Transponder	
		Type	AKL Part No
Transponder Specialist Ability to modify transponder information. This is a specialist function.	ADS914	-	-

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

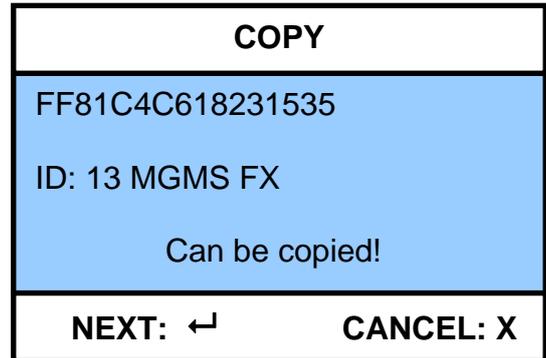
- To read more keys, press **X** to return to main menu

AD900Pro - GENERAL OPERATION



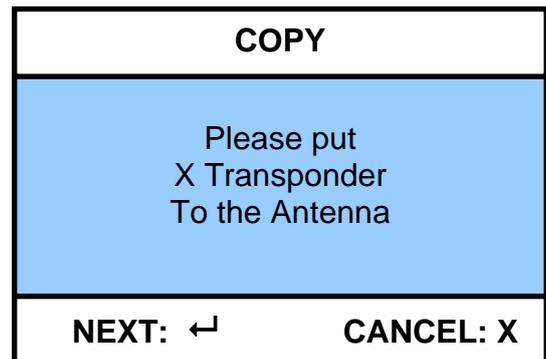
2. COPY

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.

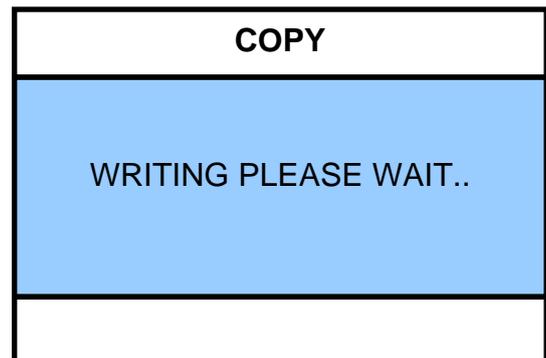


Procedure For Copying 11,12,13,33 & T5 Fixed Code Transponders

- 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	

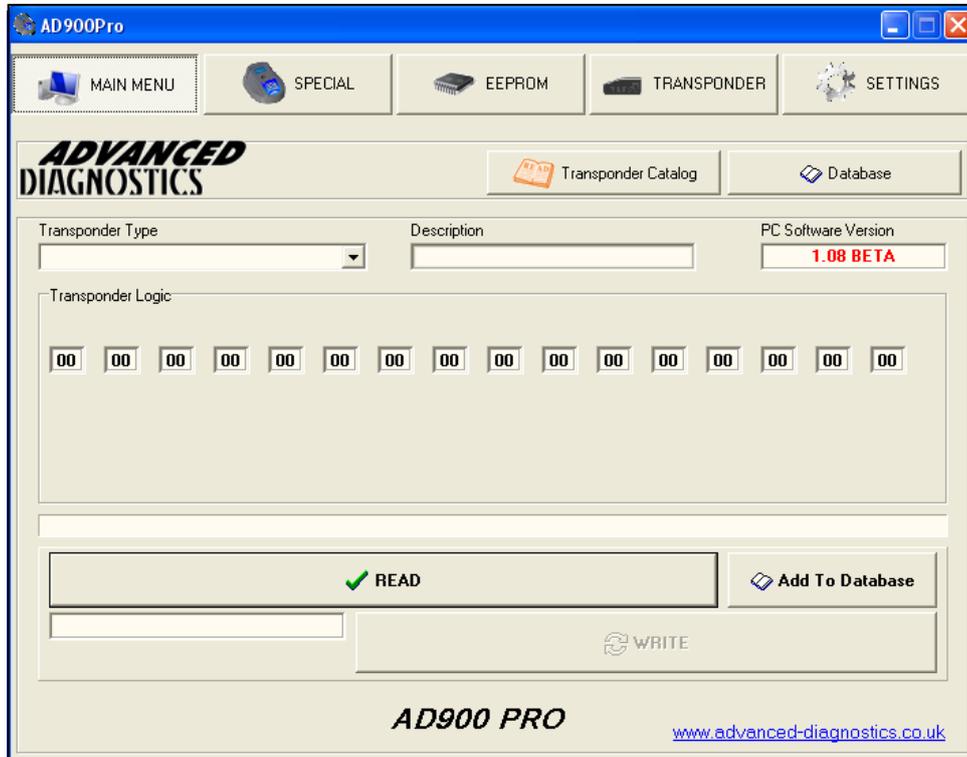
- I. To copy more keys, press **X** to return to main menu

AD900Pro - 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 or Keyline TK40 transponders.

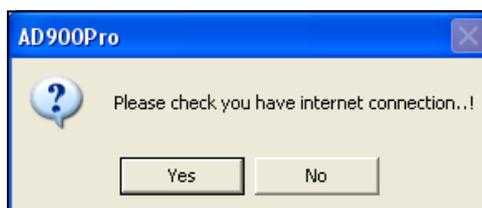


- A. Select **MAIN MENU** tab.
- B. Place key into the reading area.
- C. Click **READ**

- 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**.

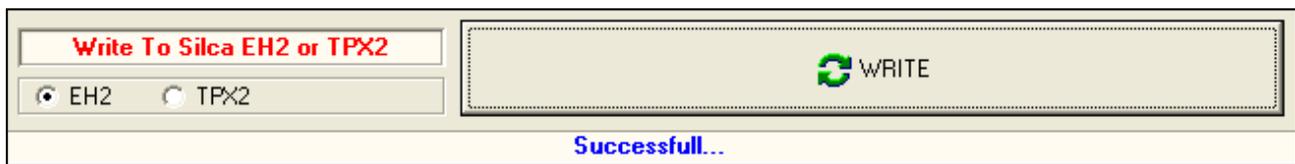
EH2 or TPX2 Selected



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

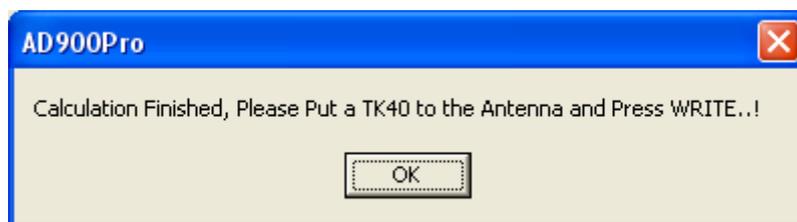


- iii) Select the appropriate transponder type to copy onto.
- iv) Next click **WRITE**.



- 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

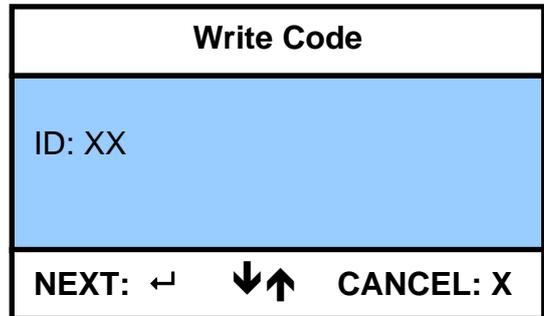


3. WRITE CODE

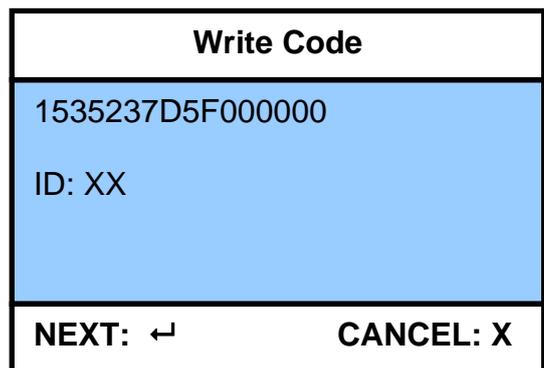
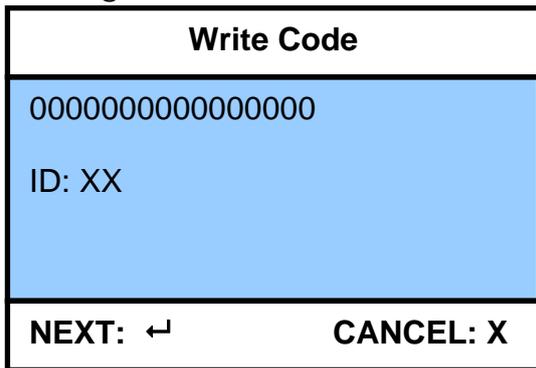
Allows transponder logic to be written onto a blank transponder

Procedure For Writing Logic Onto A T5 Transponder

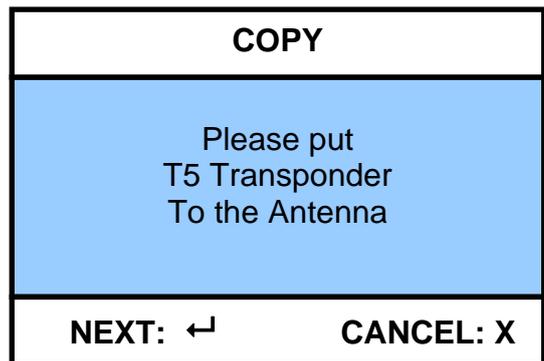
- A. Ensure > is aligned with **WRITE CODE**
- B. Press ←
- C. Using the ↓↑ select the type of transponder that wish to write onto a blank transponder.
- D. Press ←



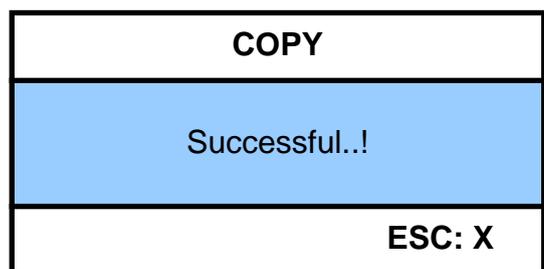
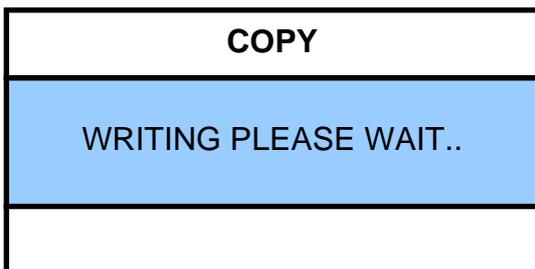
- E. Type in logic using the keypad.
Note: The logic that is on the transponder is either 8,16 or 32 digits. The number of digits shown on the display corresponds to the amount of digits that need to be entered.



- F. Press ←



- G. Press ←



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

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

PIN CODE

Select Pin Code required by moving  

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

PIN CODE
1 > HYUNDAI CODE 2 KIA PIN 3 33 RENAULT PIN 4 45 PSA PIN
NEXT:  CANCEL: X

Hyundai

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.
NEXT: ← ↓↑ CANCEL: X

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

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

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

D

MERCEDES CEG GLASS ID33 ROLLING TRANSPONDER

Generates logic for early Mercedes

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.

RANDOM CODE
6
NEXT: ← ↓↑ CANCEL: X

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

RANDOM CODE
Successfull..!
CANCEL: X

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

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: XXXXXXXXXXXXXXXXXXXX	
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

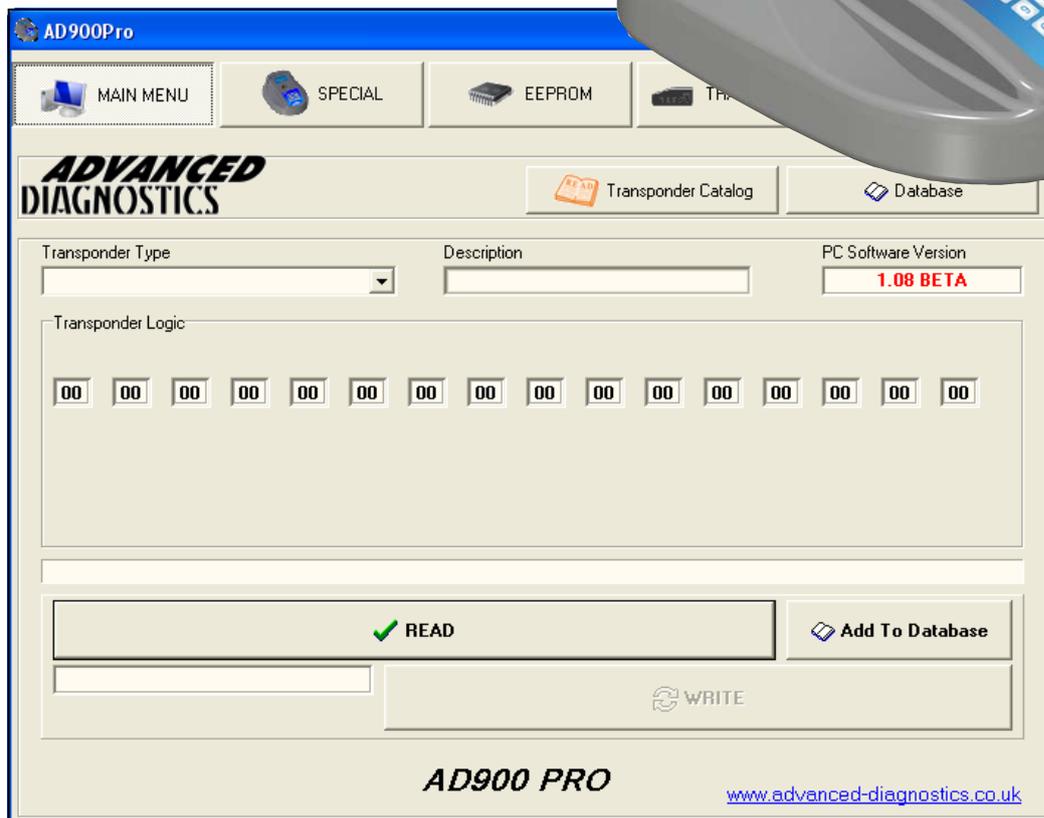
KEY TONE

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

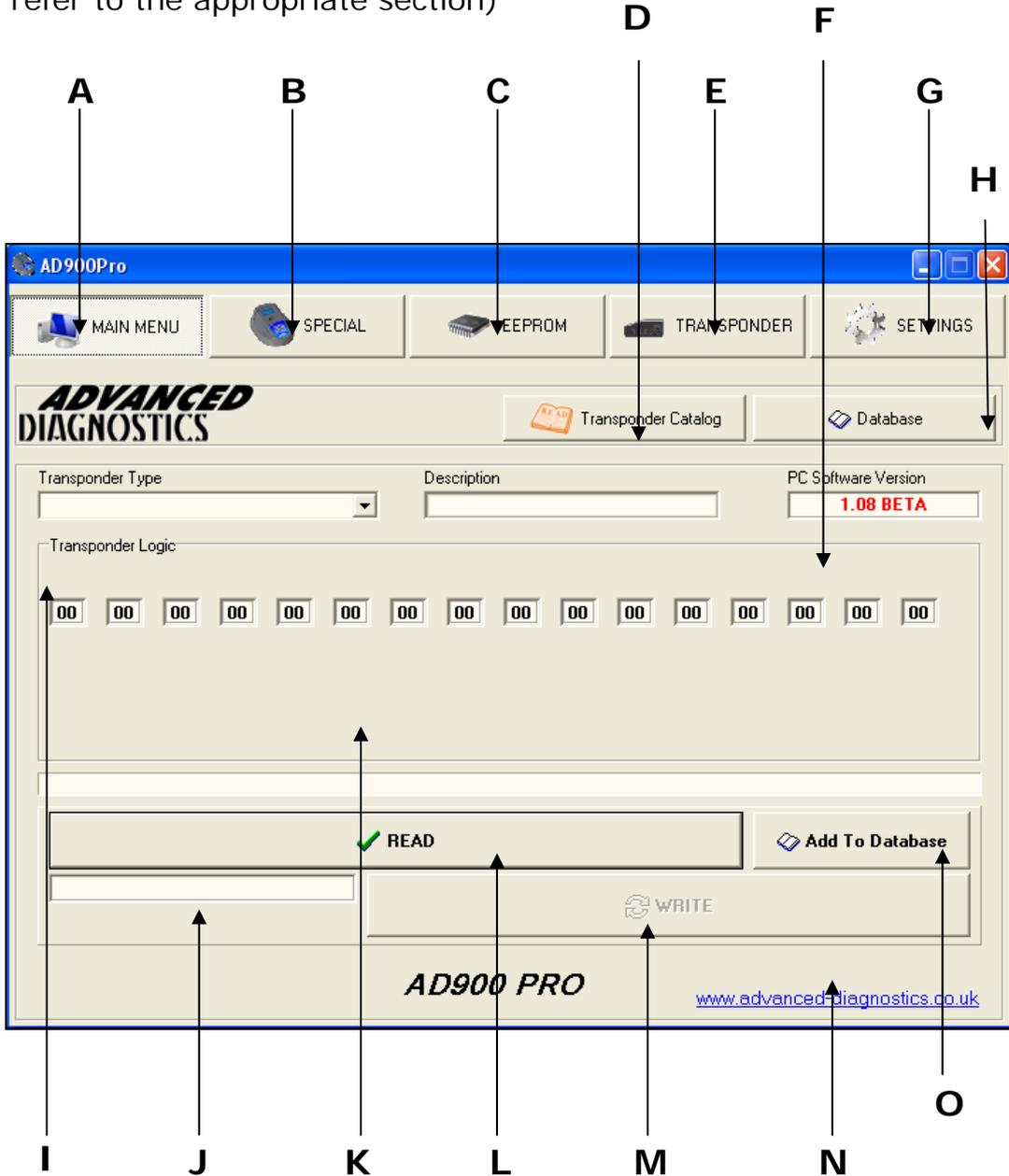


AD900Pro - PC SOFTWARE



SOFTWARE FEATURES

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



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

AD900Pro - PC SOFTWARE



MAIN MENU

Displays information relating to transponders including:

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

IDENTIFICATION

Procedure

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



Example of Identification screens

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

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

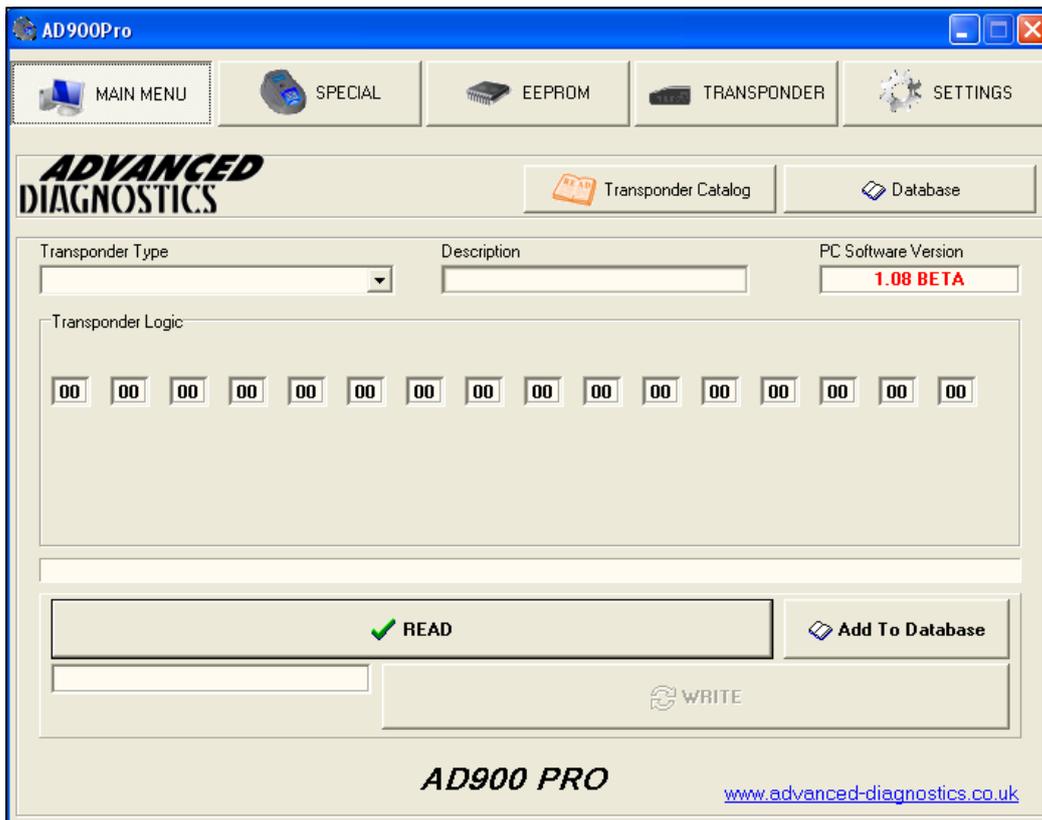
AD900Pro - PC SOFTWARE



COPY

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

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



Procedure

- 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.



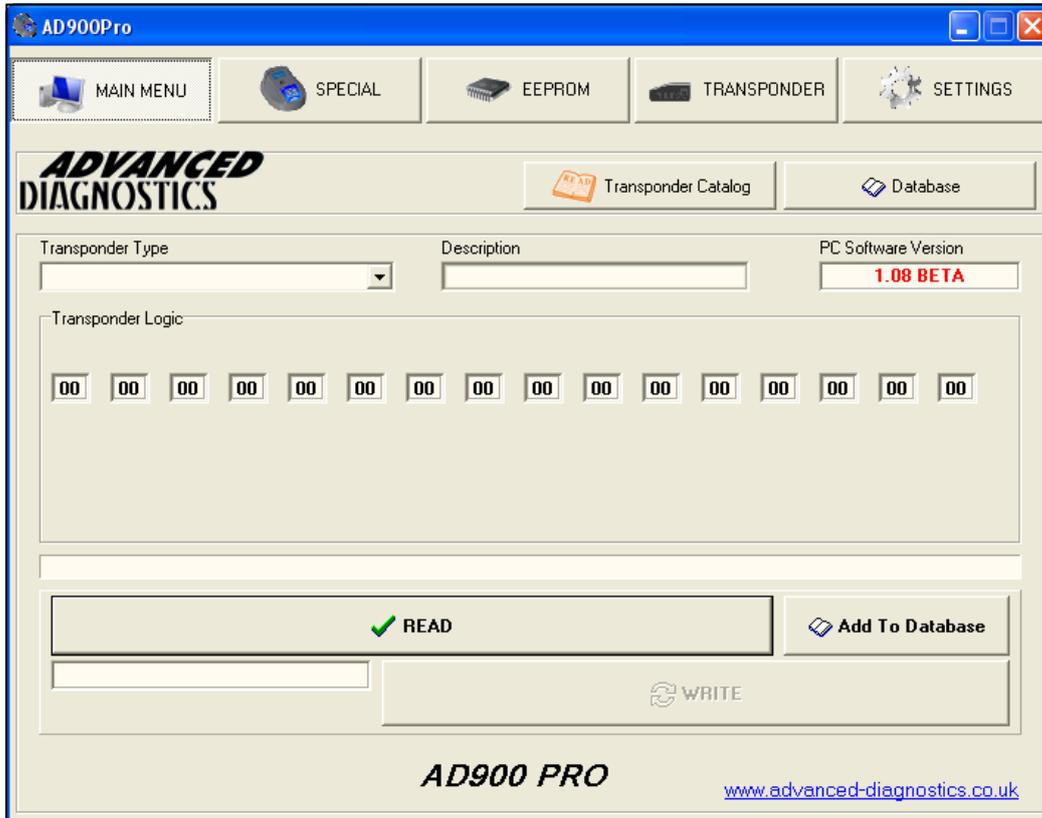
Successfull...

- 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** 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.



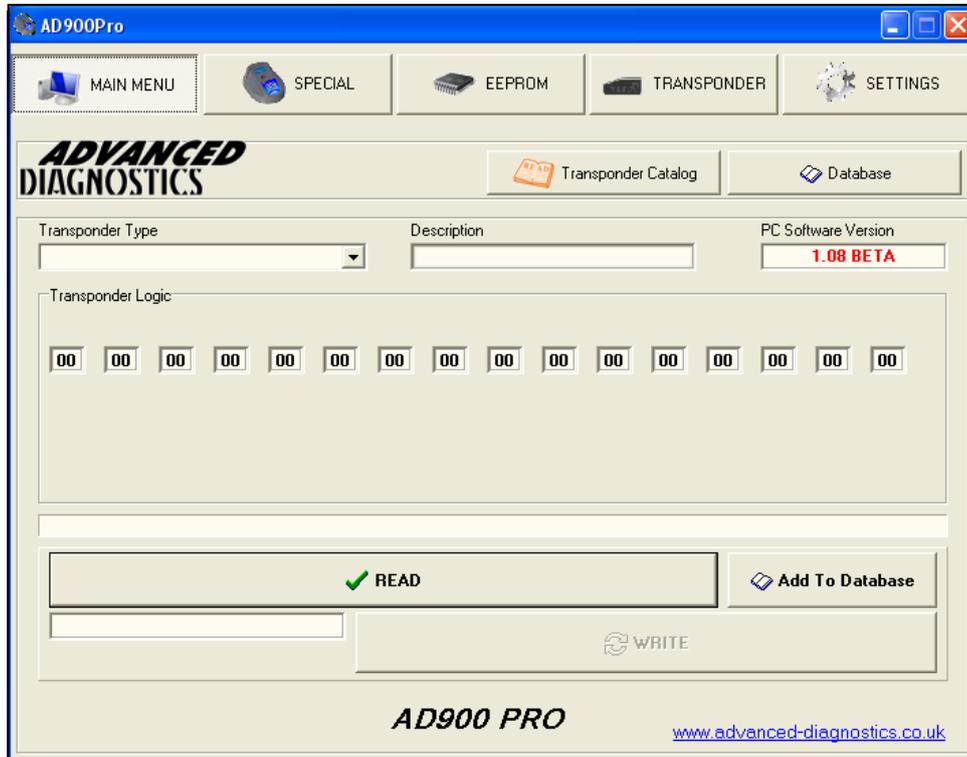
- J. To copy more keys, repeat steps **A to G**.

AD900Pro - PC SOFTWARE



Procedure for copying Texas 4D Crypto Transponder

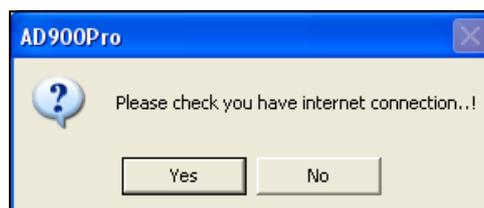
To copy this type of transponder, the PC software must be used as an internet connection is required. 4D transponders can be copied into either Silca EH2, JMA TPX2 or Keyline TK40 transponders.



- 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)

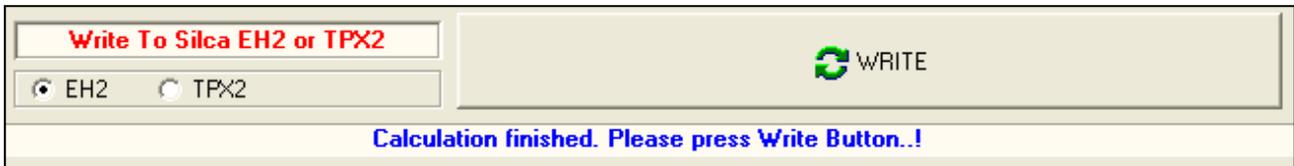


- G. When the web calculation has finished one of the following dialog box will appear, click **OK**.

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.

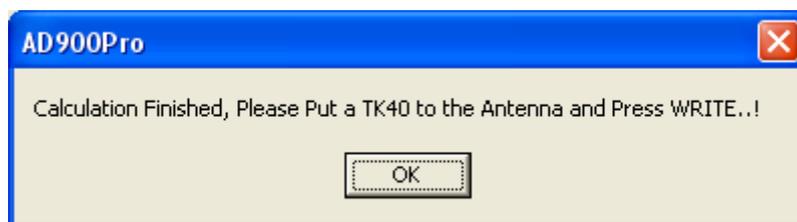


- iii) Select the appropriate transponder type to copy onto.
- iv) Next click **WRITE**.



- 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**.

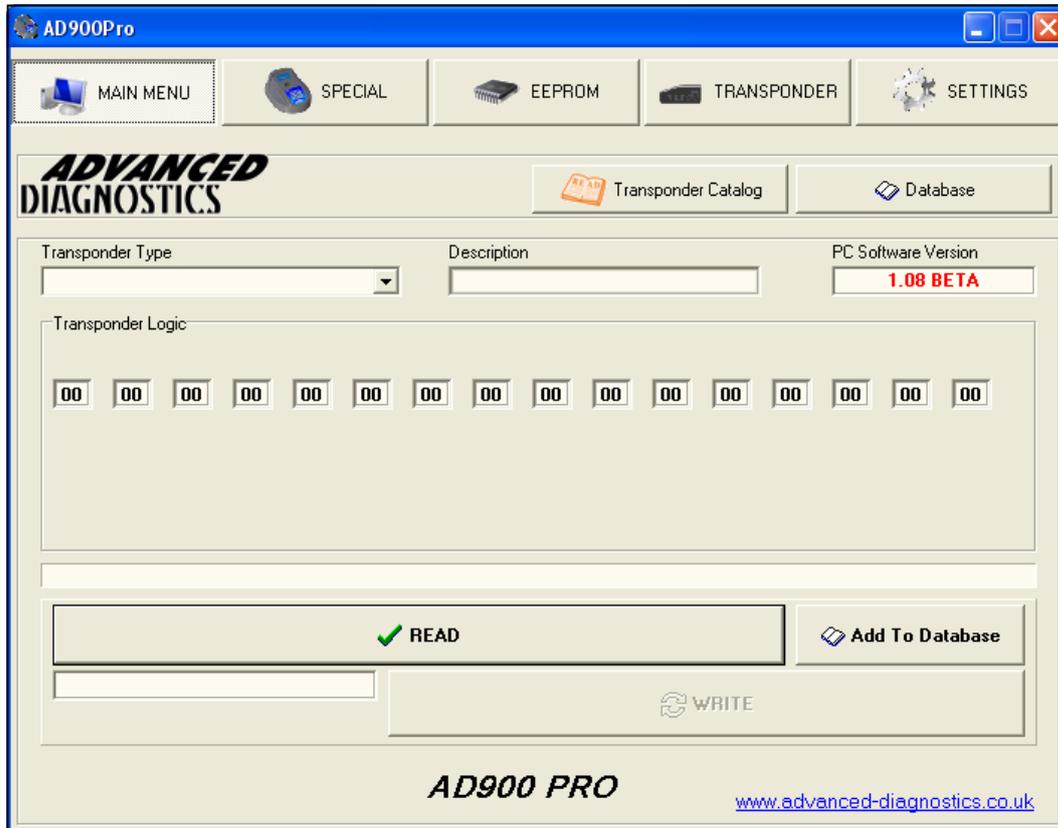


- v) The status bar will indicate if the copying process was successful.

AD900Pro - 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 Precoded 99

- F. Click **WRITE**



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

Successfull...

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

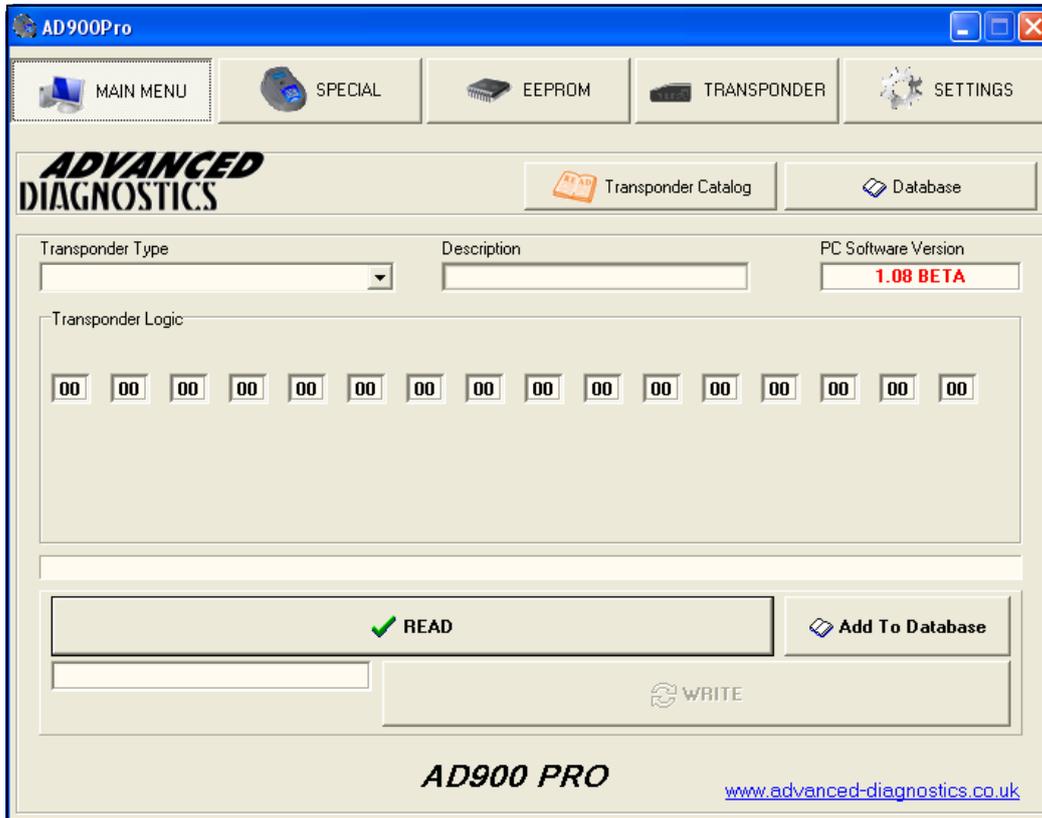
AD900Pro - PC SOFTWARE



WRITE CODE

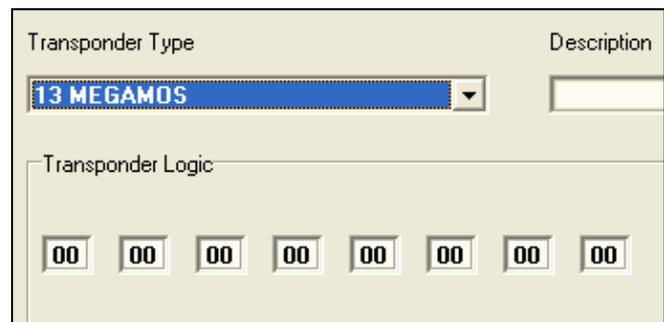
Allows transponder logic to be written onto a blank transponder

Procedure For Writing Logic Onto A T5 Transponder



Procedure

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



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



AD900Pro - PC SOFTWARE

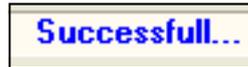
E

D. Place blank key into the reading area.

E. Click **WRITE**.



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

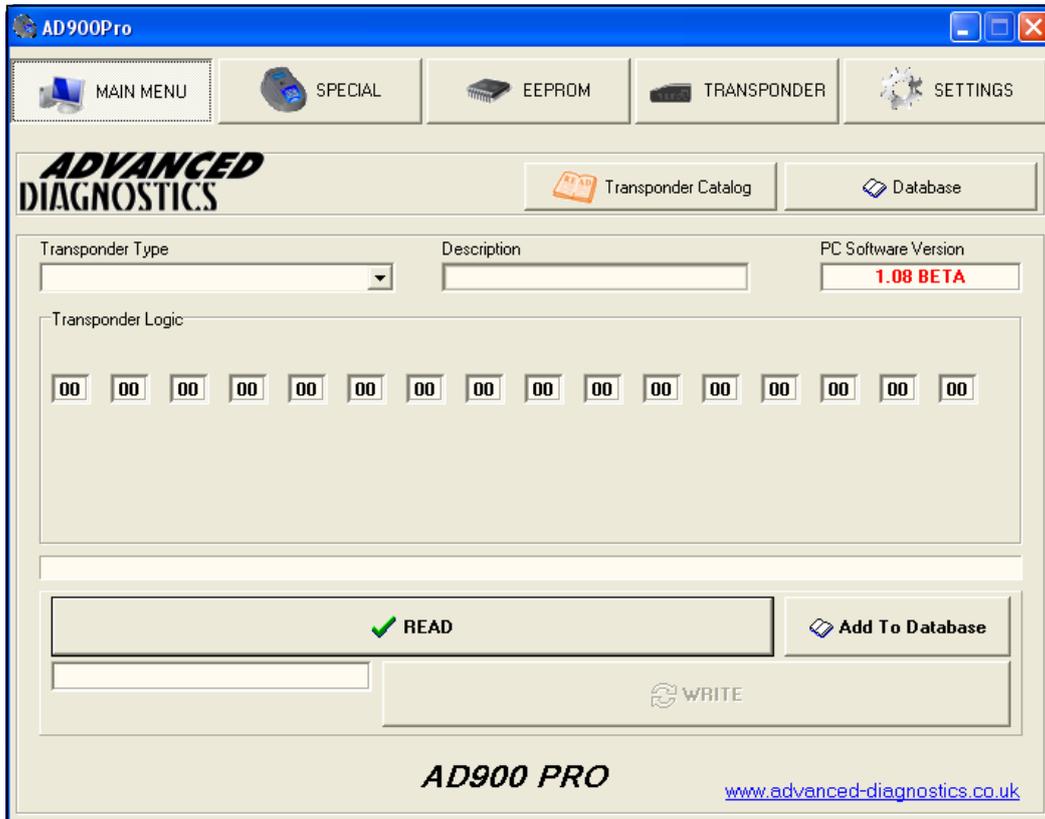


G. To write more logic, repeat steps **A to F**.

AD900Pro - PC SOFTWARE



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

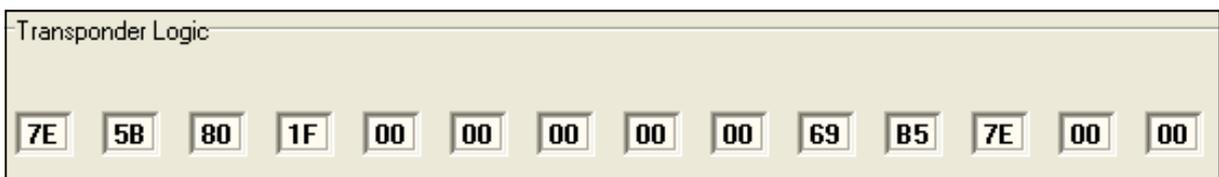


Procedure

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



- 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**.

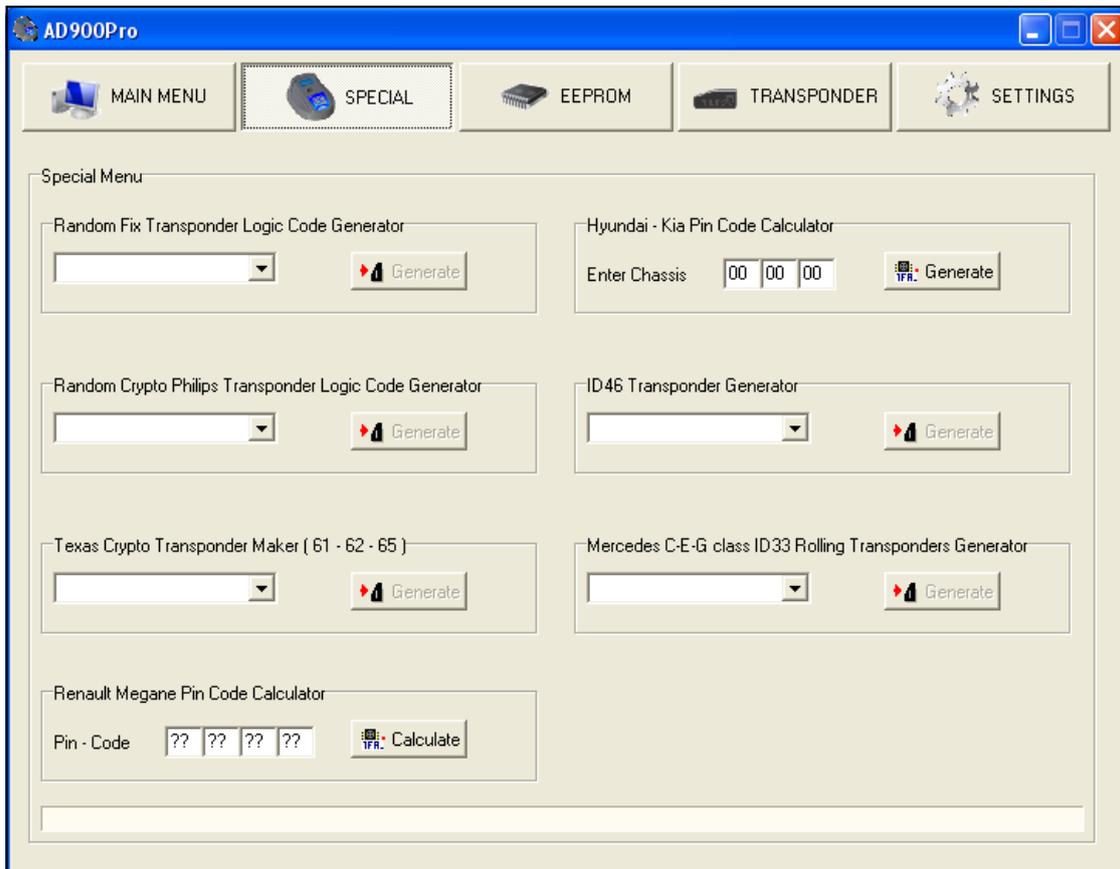
AD900Pro - PC SOFTWARE



SPECIAL FUNCTION

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

- Pin code calculating
- Unlock 48
- Generate random code

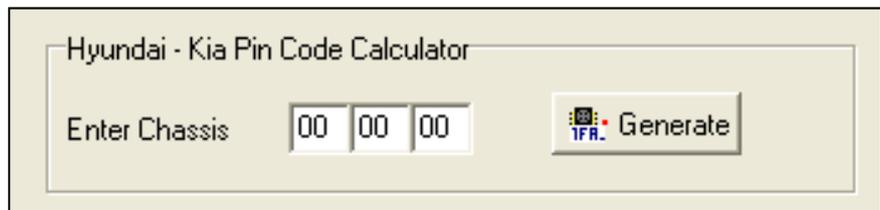


Procedure

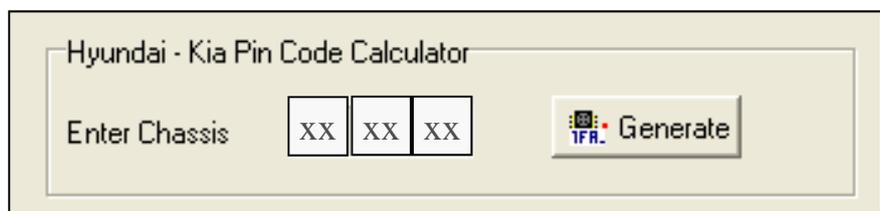
- Select **SPECIAL** tab.
- Select appropriate function.

HYUNDAI & KIA PIN CODE CALCULATOR

Enter last 6 digits of the chassis number and click **GENERATE**



The 6 digit Pin code will be displayed.



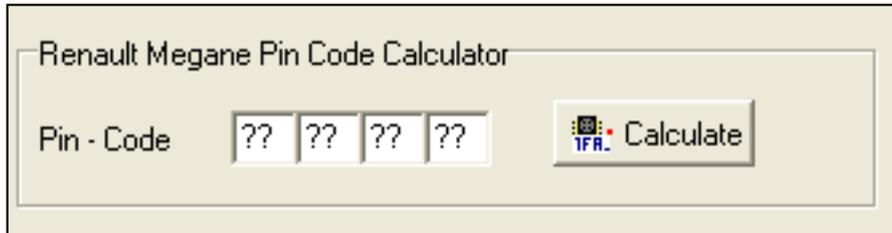
AD900Pro - PC SOFTWARE



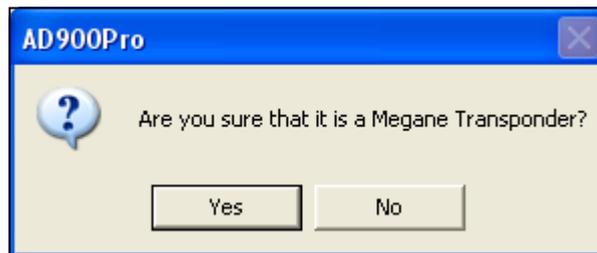
RENAULT PIN CODE CALCULATOR (8 Digit - Texas Crypto ID60 & ID64)

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

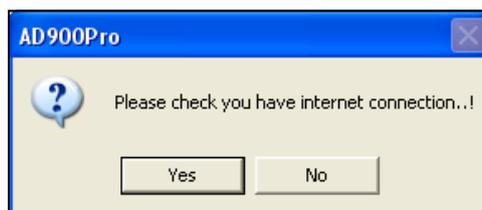
1. put the key into the key reading area and press the **CALCULATE** button



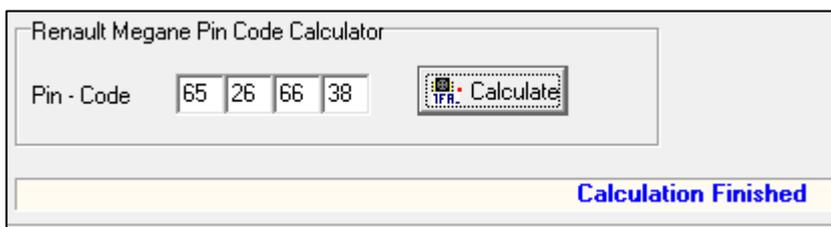
2. Confirm that a correct transponder has been inserted.



3. Confirm that you have an internet connection



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

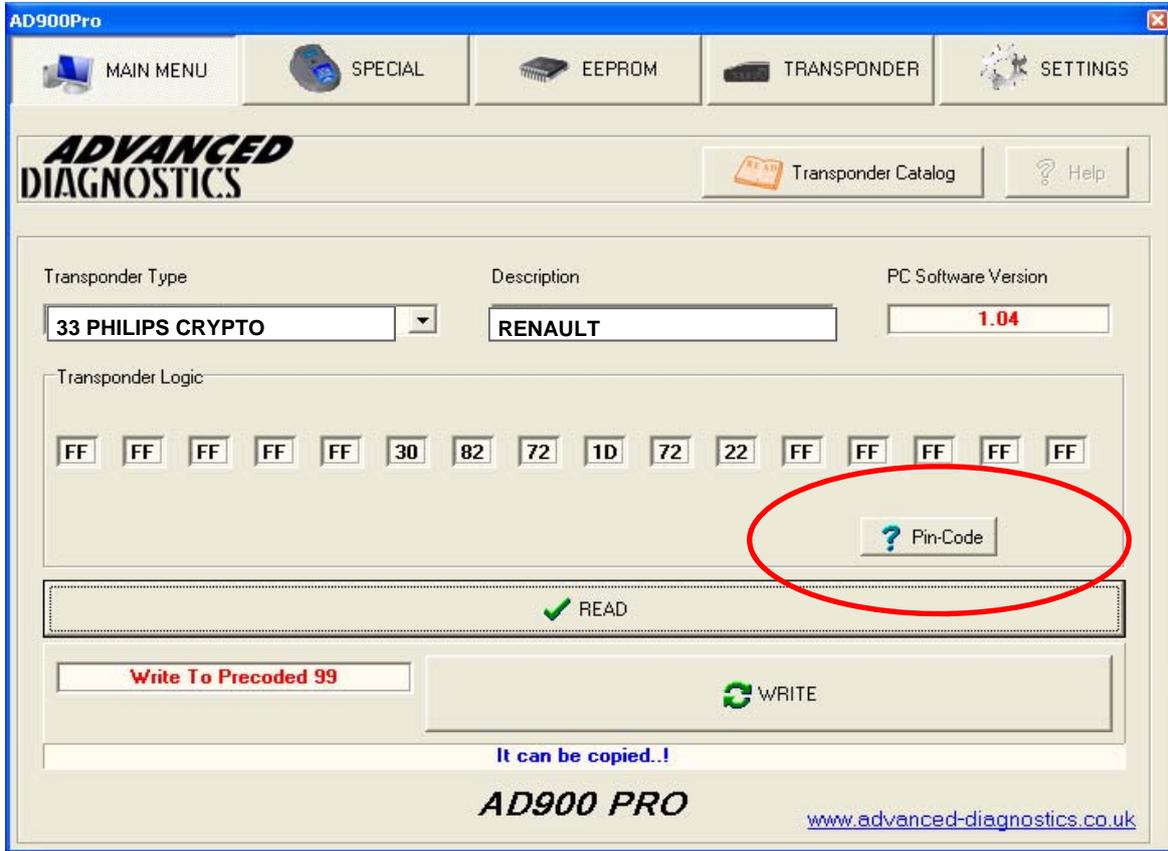


AD900Pro - PC SOFTWARE



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.

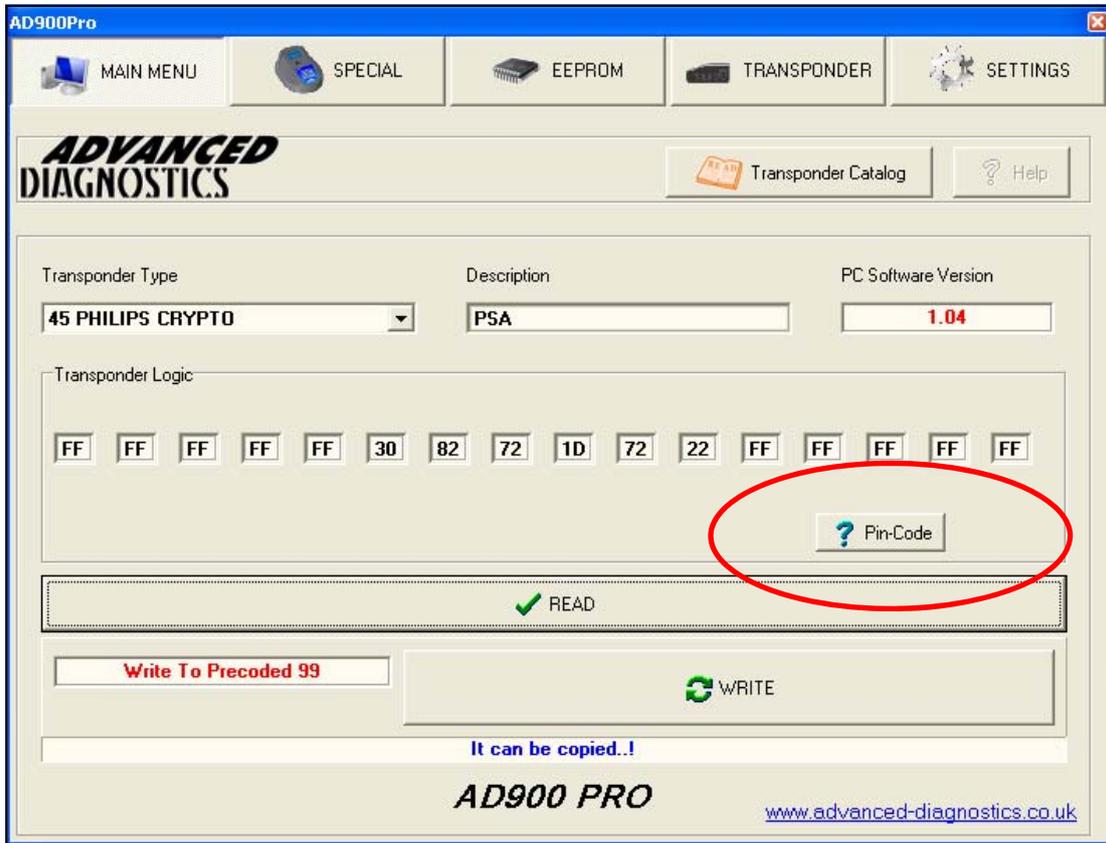


AD900Pro - PC SOFTWARE

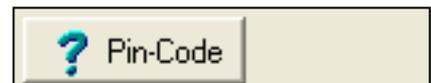


45 PSA PIN

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.



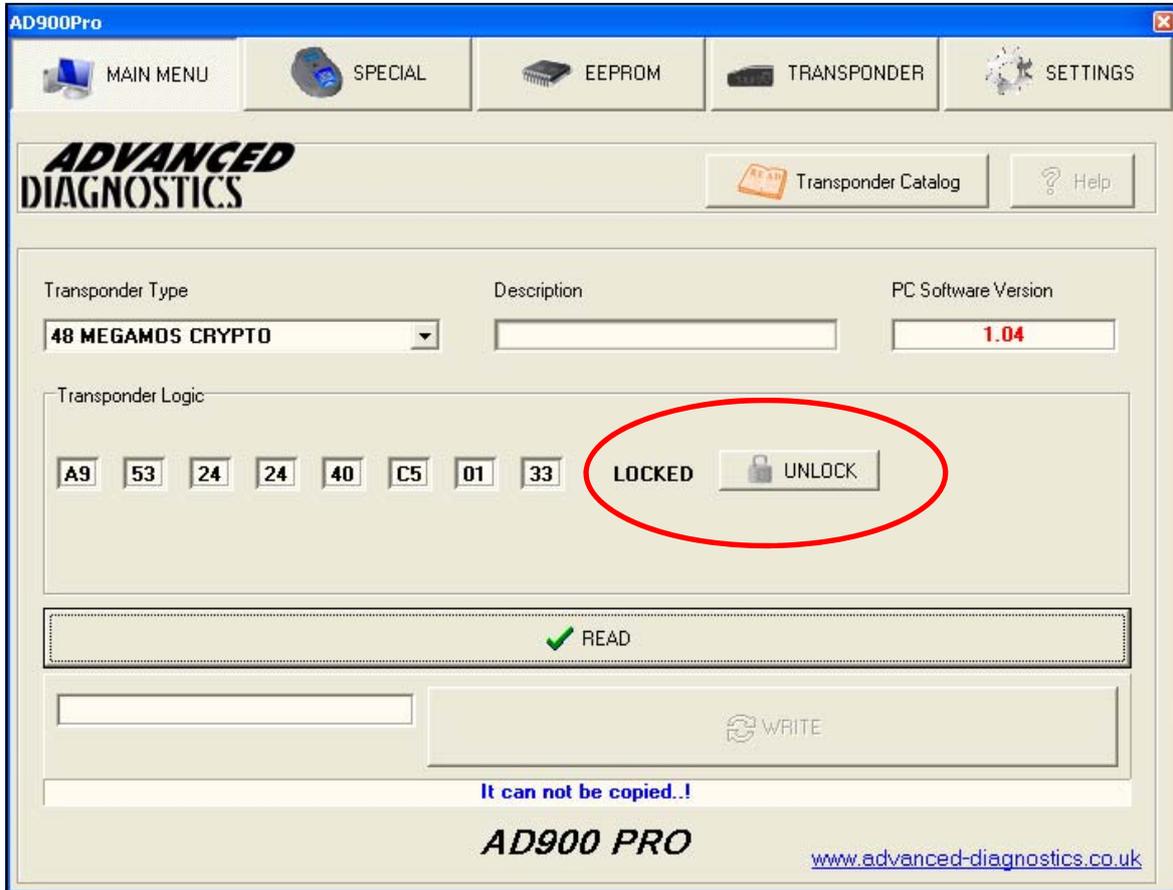
AD900Pro - PC SOFTWARE



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.

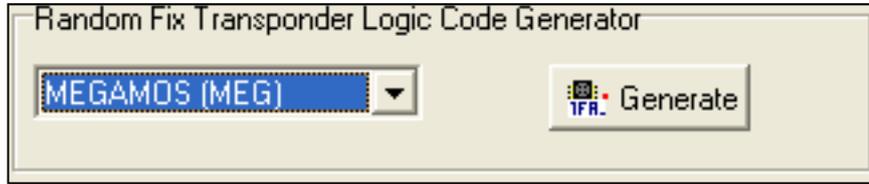
Successfull...

AD900Pro - PC SOFTWARE



RANDOM FIX CODE LOGIC GENERATOR

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

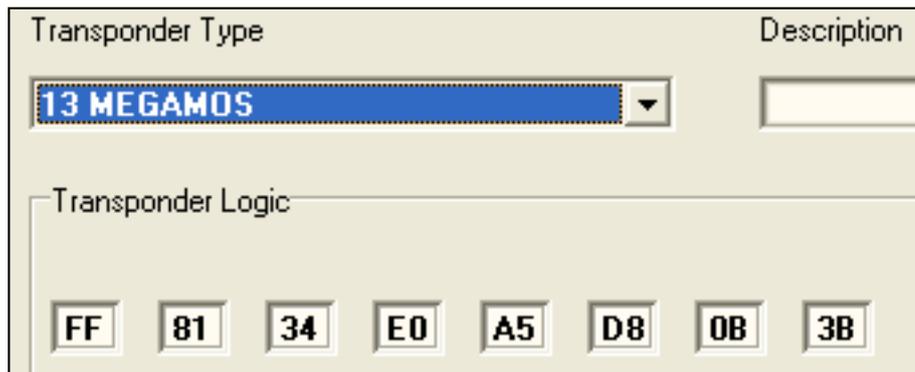


Procedure

- 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



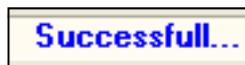
- D. The type of transponder to be programmed will be indicated.



- 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.

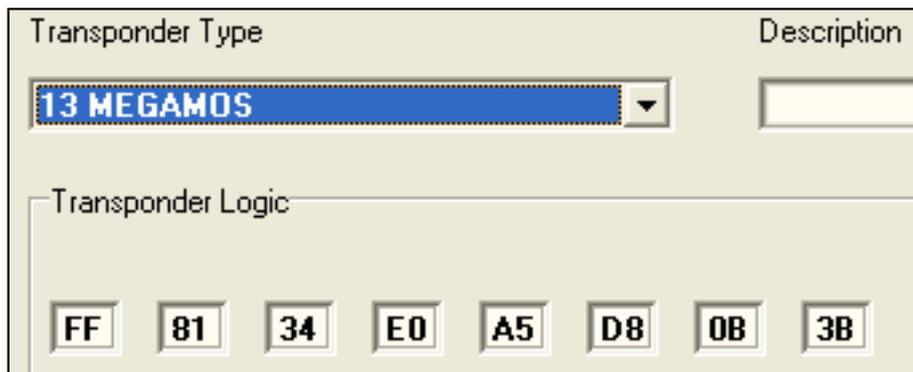


Procedure

- 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.



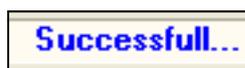
- D. The type of transponder to be programmed will be indicated.



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



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

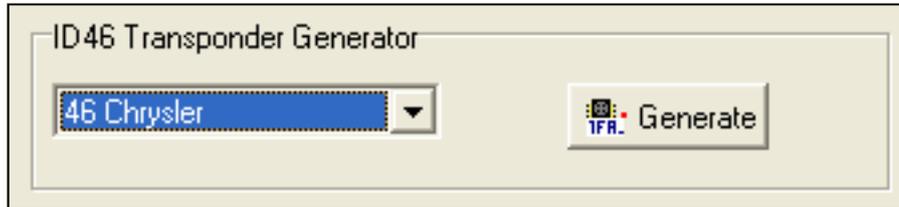


AD900Pro - PC SOFTWARE



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.



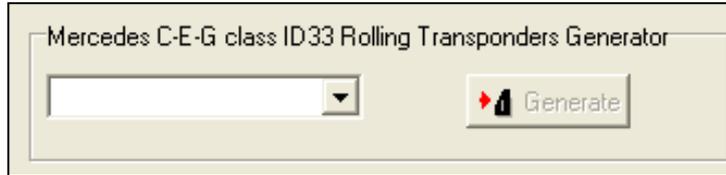
- The transponder can now be programmed into a vehicle.

AD900Pro - PC SOFTWARE



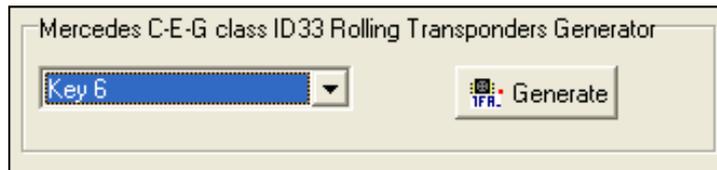
MERCEDES CEG GLASS ID33 ROLLING TRANSPONDER GENERATOR

Generates logic for early Mercedes



Procedure

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



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

- C. Click **GENERATE**



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

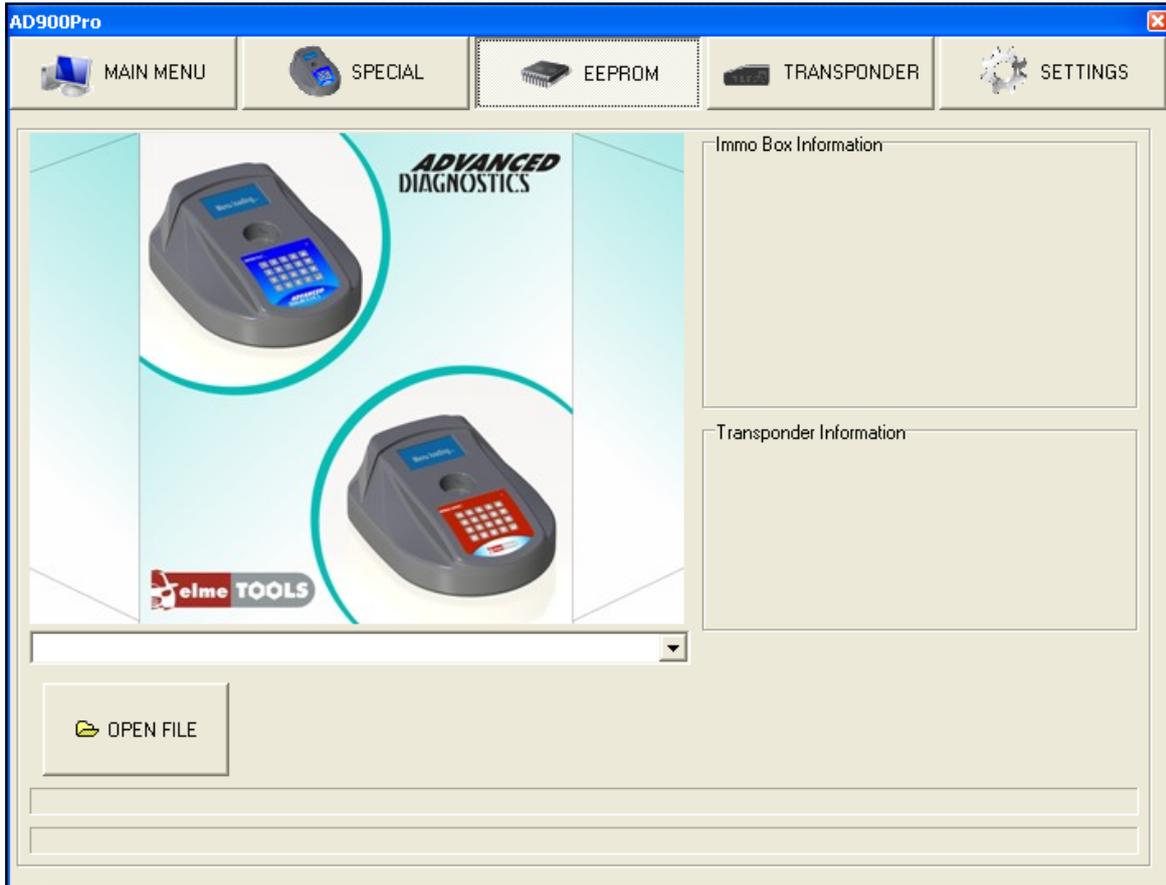


- E. The transponder can now be programmed into a vehicle.
Note: remember the slot number that was programmed.

AD900Pro - PC SOFTWARE



EEPROM



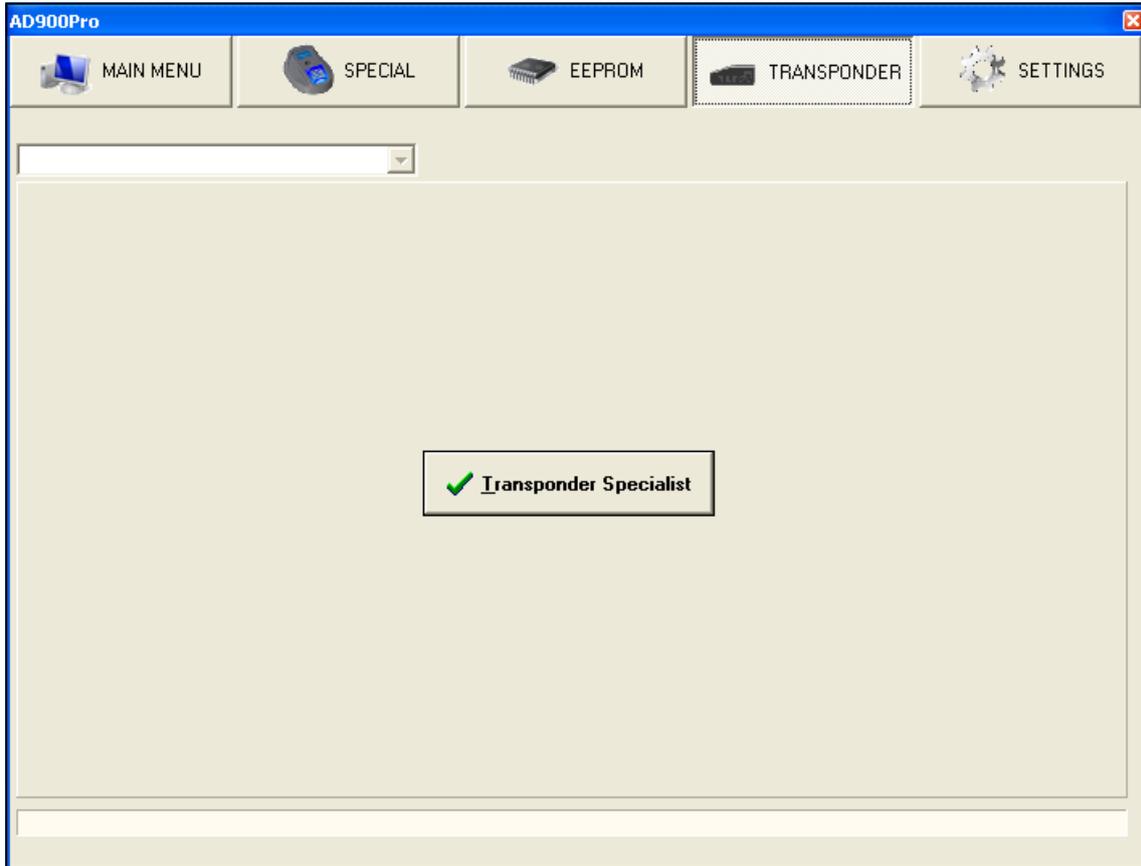
This function is used in conjunction with an EEPROM reader (not sold by Advanced Diagnostics). Depending on the system the transponder information and/or the pin code can be read.

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

AD900Pro - PC SOFTWARE



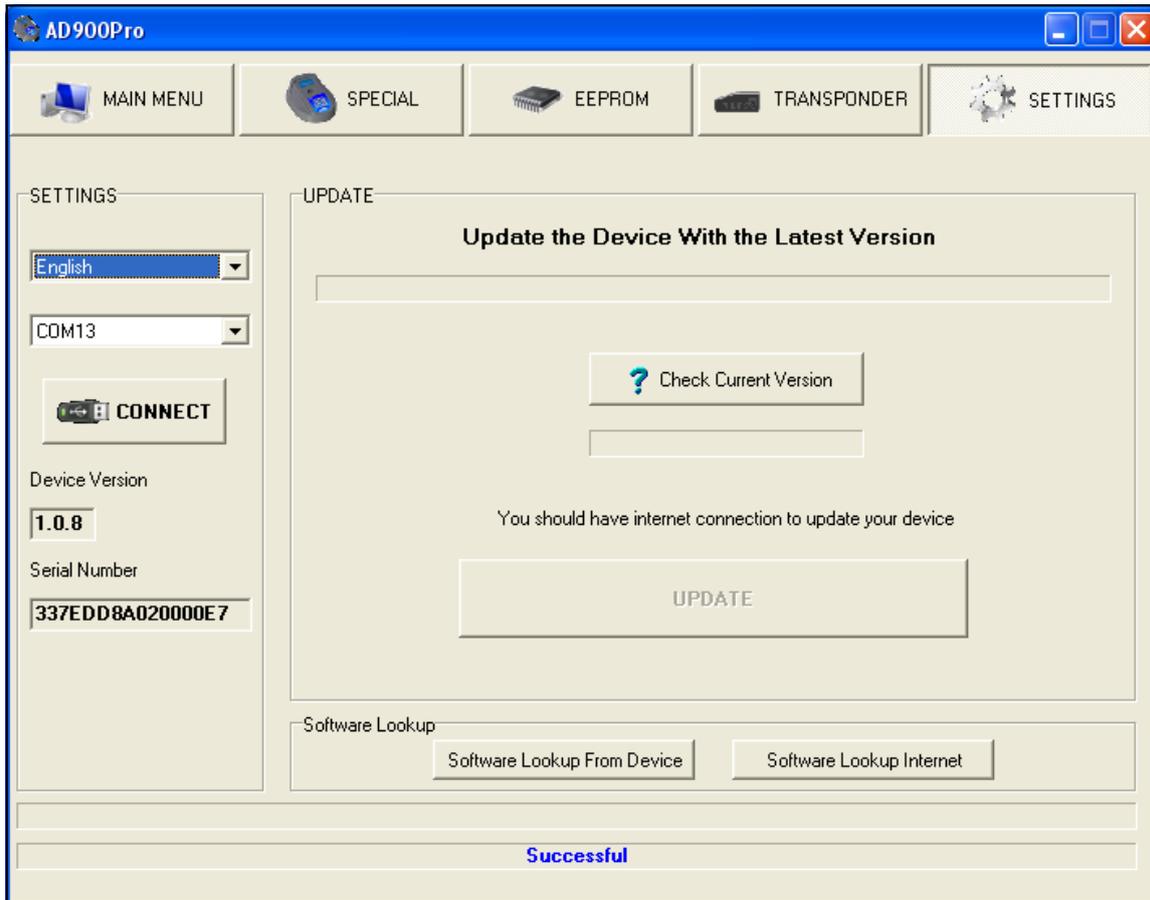
TRANSPONDER



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

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

SETTING



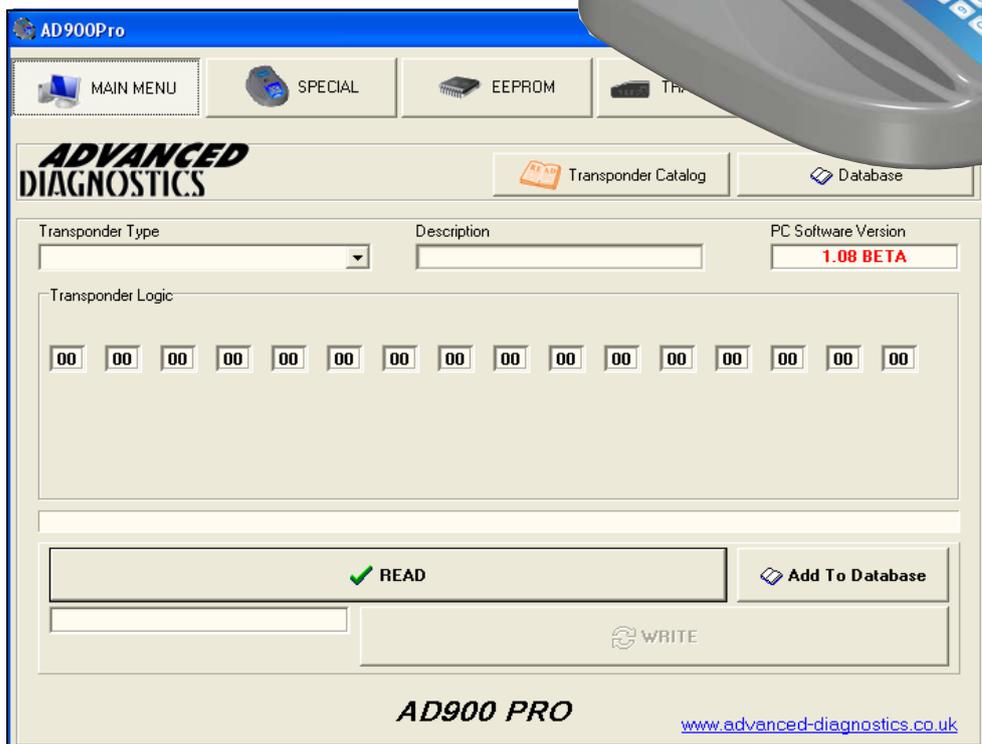
The **SETTINGS** page allows the following:

- | | |
|-------------------------------|---|
| Language | - Select language |
| Com Port | - Select correct com port that the tester is connected to. (Normally this does not need to be changed) |
| 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 if the tester is connected correctly. |
| Check Current Version: | - Checks the latest version of software that is available for download for the particular unit connected. |
| Update | - Facility to update tester software |
| Software Lookup Int | - Facility to look at the software modules that you have available for download and those not. |
| Software Lookup Device | - Facility to look at the software modules that you have loaded and those that are not. |

Note: Click **CONNECT** to display the information above (*).

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

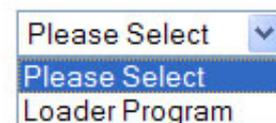
First step is to install the loader program. Do not connect the AD900Pro tester until instructed.

Procedure

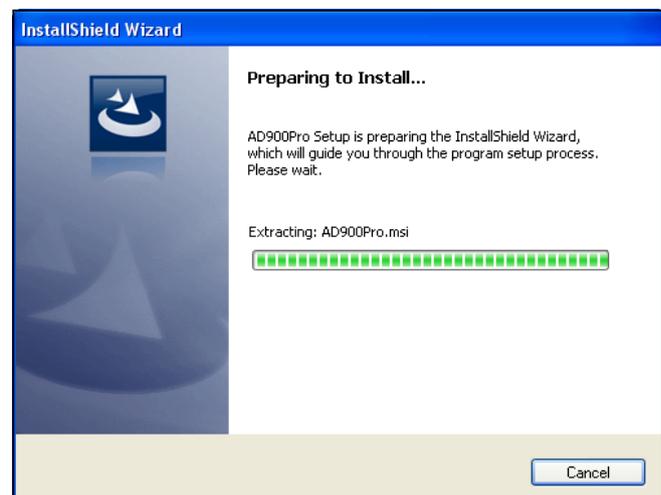
- A. Visit www.advanced-diagnostics.co.uk website
- B. Select **Downloads** from the main menu.
- C. Then select **LOADER PROGRAM** from the pull down menu under the AD900Pro icon.



AD900 Pro

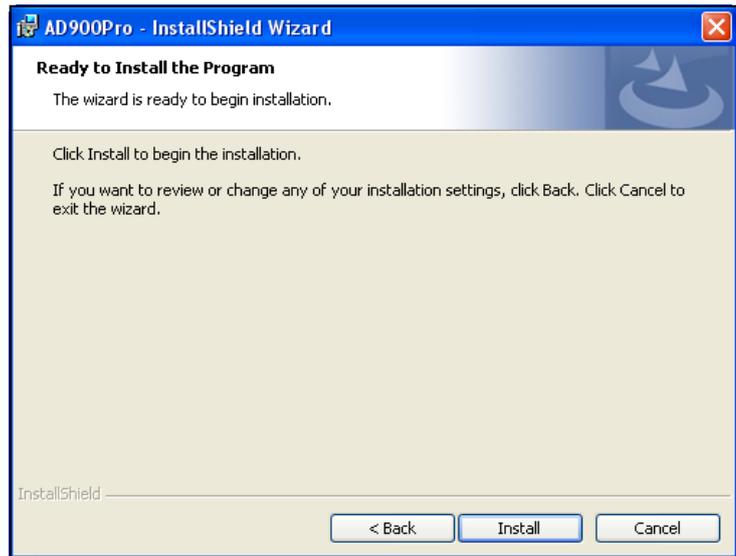


- D. Select the language and click **OK**.

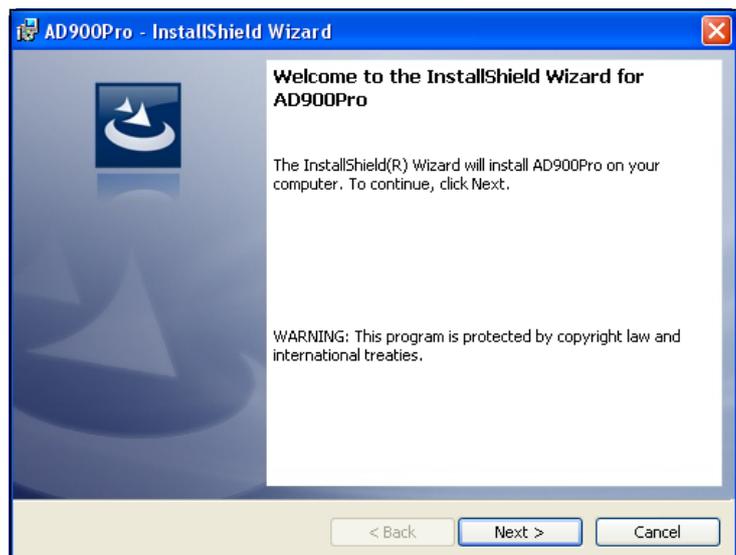


AD900Pro - SOFTWARE INSTALLATION **F**

e. Click **INSTALL**



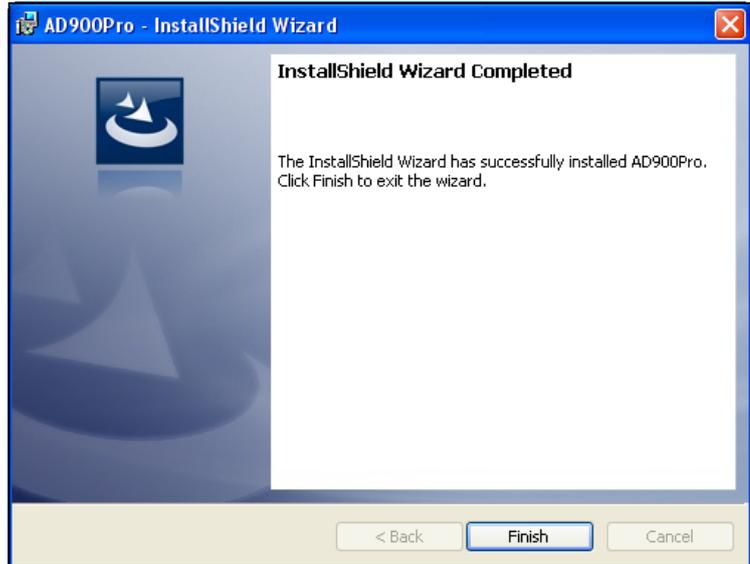
f. Click **NEXT**



AD900Pro - SOFTWARE INSTALLATION



g. Click **FINISH**



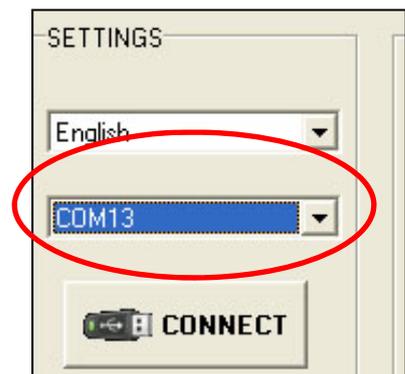
h. The AD900Pro icon will be displayed on your desktop.



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 AD100Pro icon on the desktop.
- 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.
- F. The next time you connect to the same USB port it will detect the AD900Pro automatically.



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 - SOFTWARE UPDATE

F

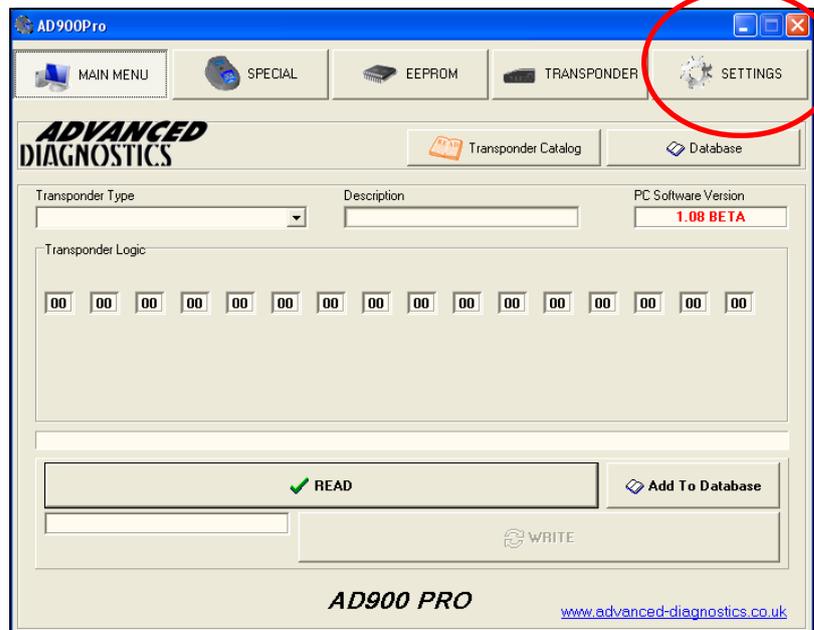
PC Software Update Procedure

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. Click **CONNECT**

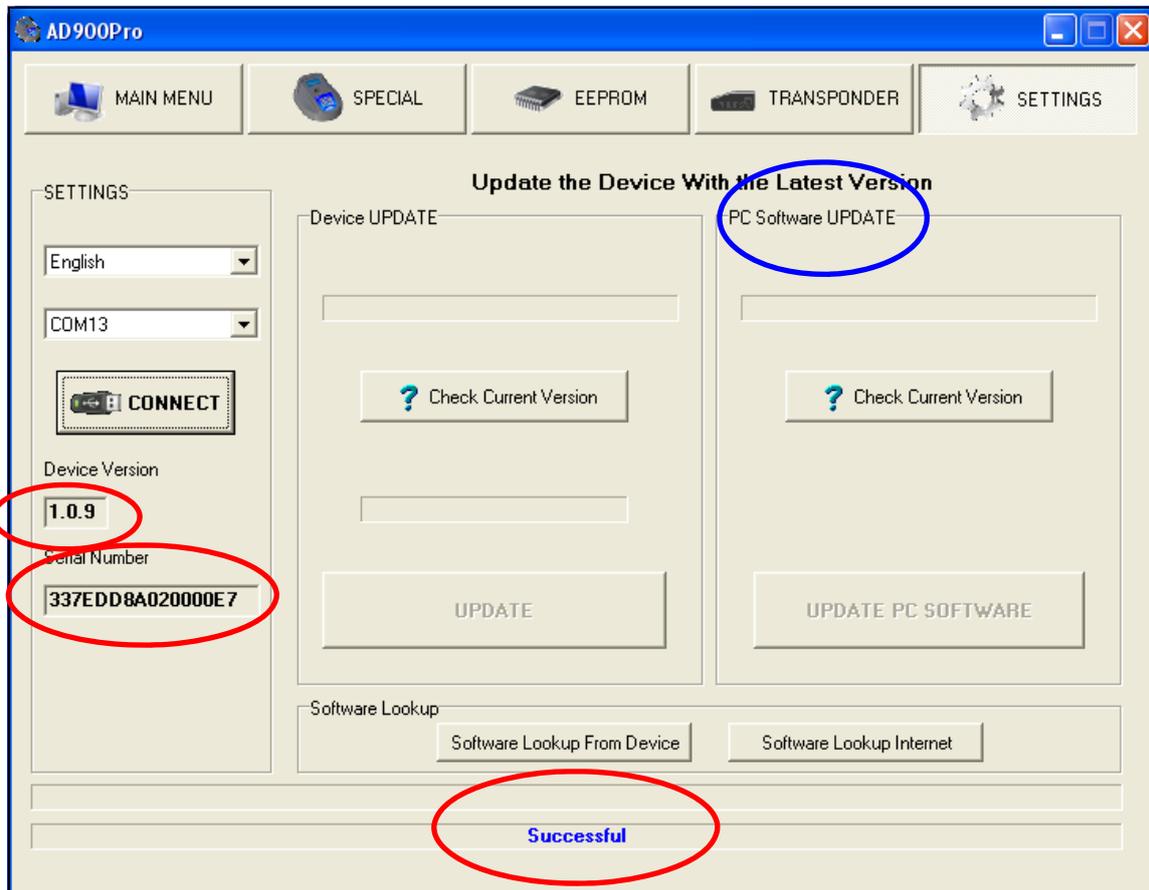


AD900Pro - SOFTWARE UPDATE

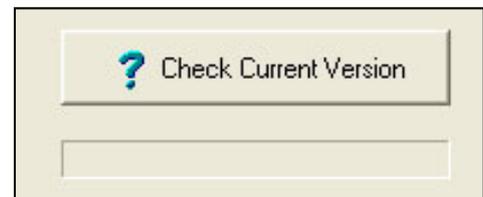


If your tester is correctly connected to the PC the following information will be displayed.

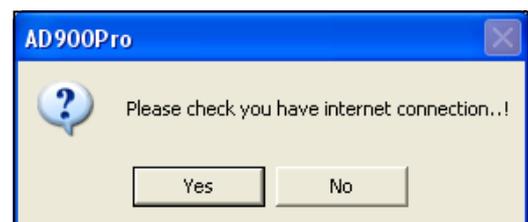
- Device Version** - Software version currently loaded on the tester.
- Serial Number** - Serial number of the tester.
- Status** - Successful will appear at the bottom of the screen.



G. Click **Check Current Version**.



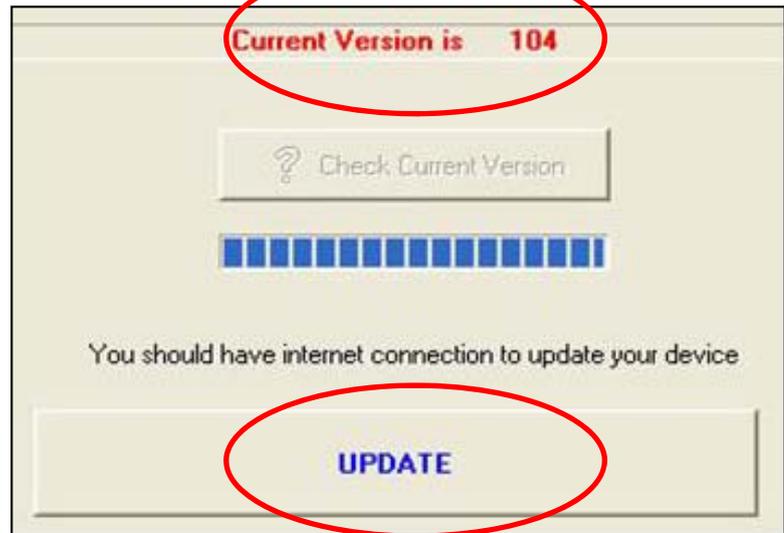
H. Click **YES** to confirm you have internet connection.



AD900Pro - SOFTWARE UPDATE

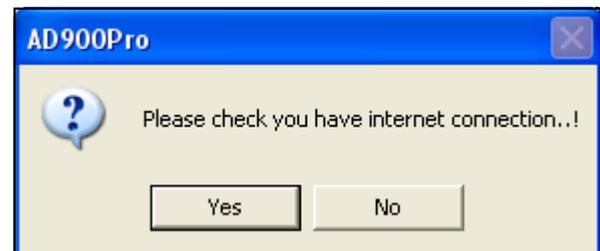
F

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



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

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



- L. After a short while the latest software will be installed on the PC.

AD900Pro - SOFTWARE UPDATE

F

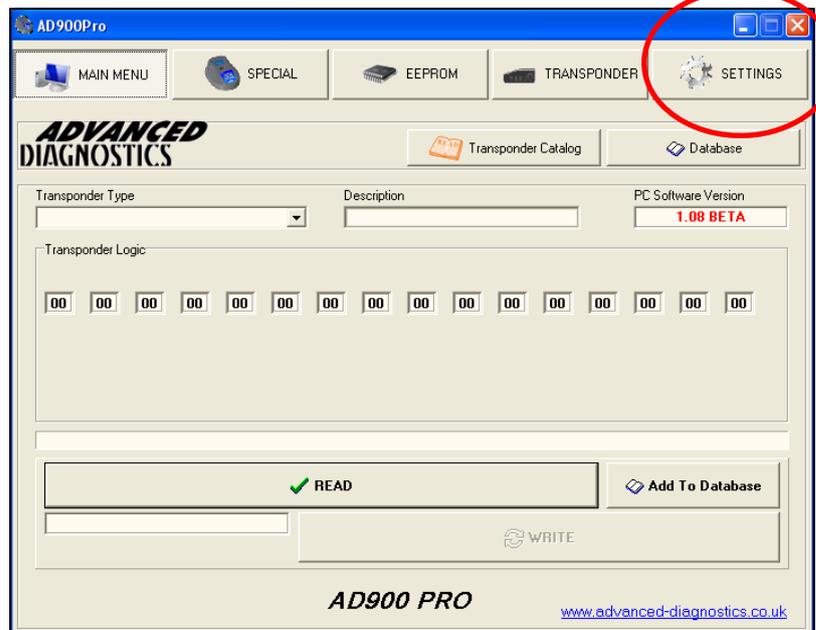
Device Software Update Procedure

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. Click **CONNECT**

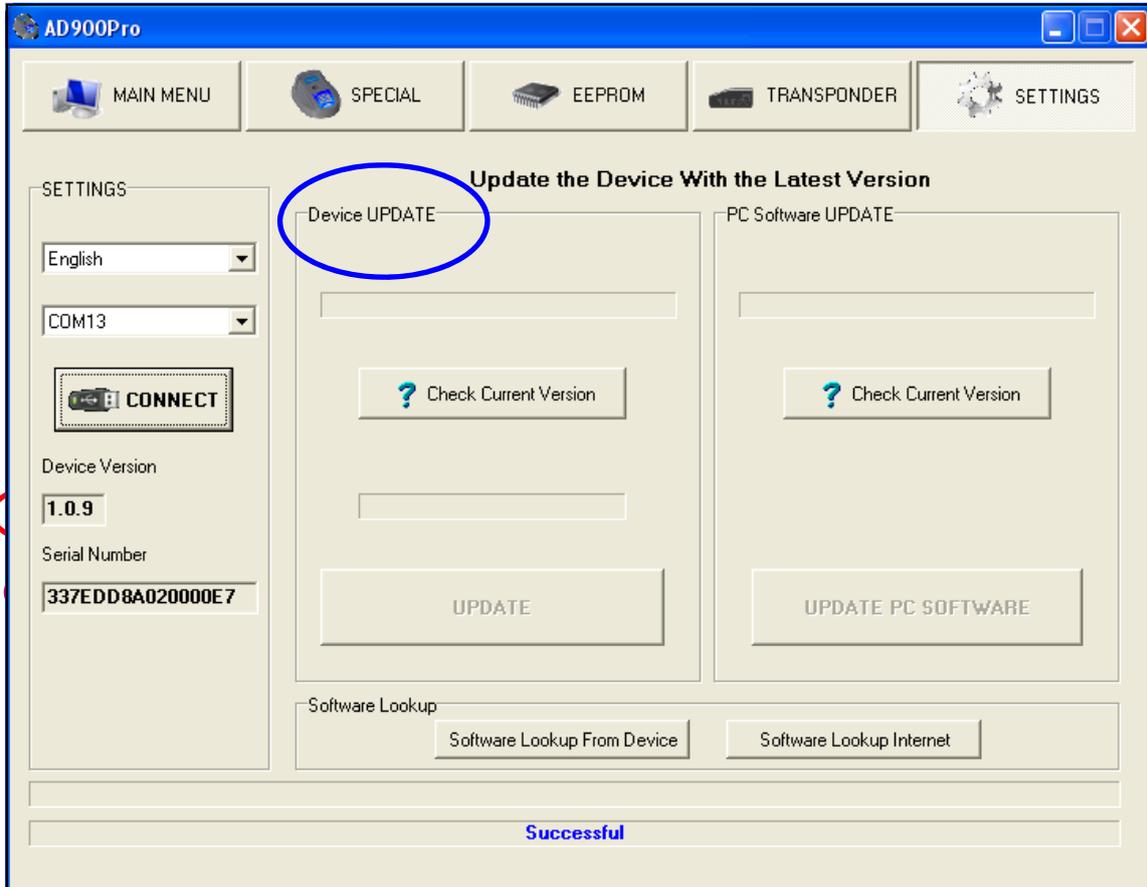


AD900Pro - SOFTWARE UPDATE

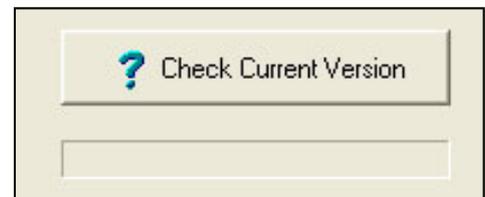


If your tester is correctly connected to the PC the following information will be displayed.

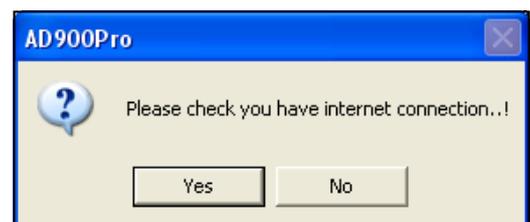
- Device Version** - Software version currently loaded on the tester.
- Serial Number** - Serial number of the tester.
- Status** - Successful will appear at the bottom of the screen.



G. Click **Check Current Version**.



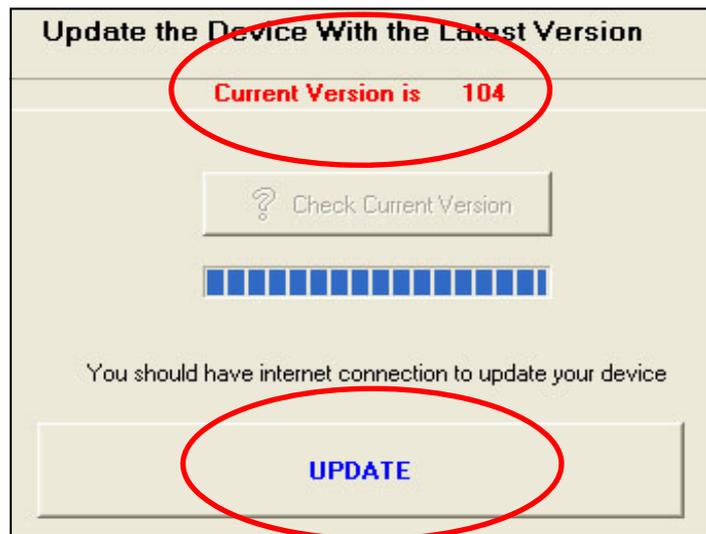
H. Click **YES** to confirm you have internet connection.



AD900Pro - SOFTWARE UPDATE

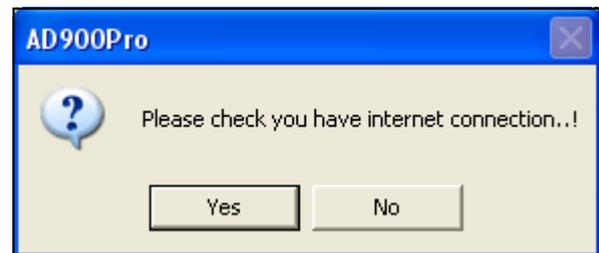
F

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



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

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



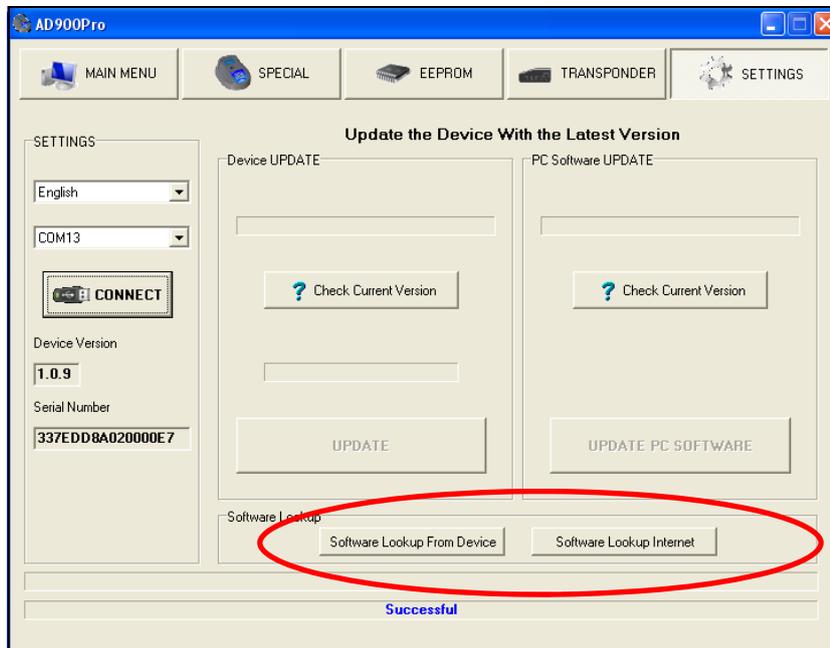
- L. After a short while the latest software will be installed on the AD900Pro.

Note: After the your tester has been updated, it maybe necessary to change the language back to the required setting.

AD900Pro - SOFTWARE UPDATE



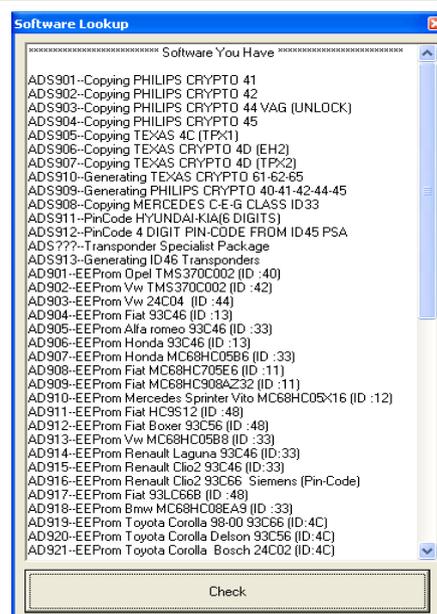
Software Lookup



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

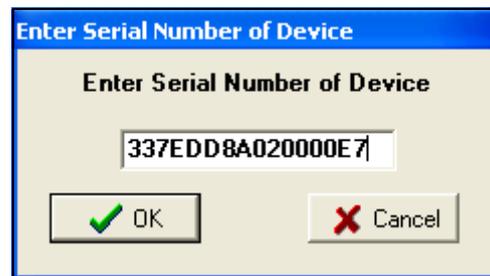
Facility to look at the software modules that you have available for download and those not. Used to check if additional software purchased is ready for download.

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

1. Click **Software Lookup Internet**

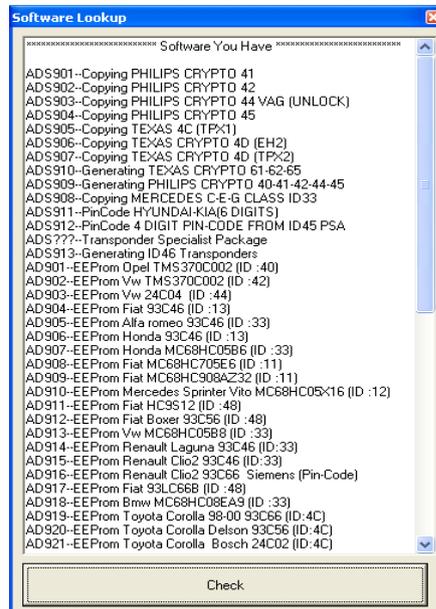
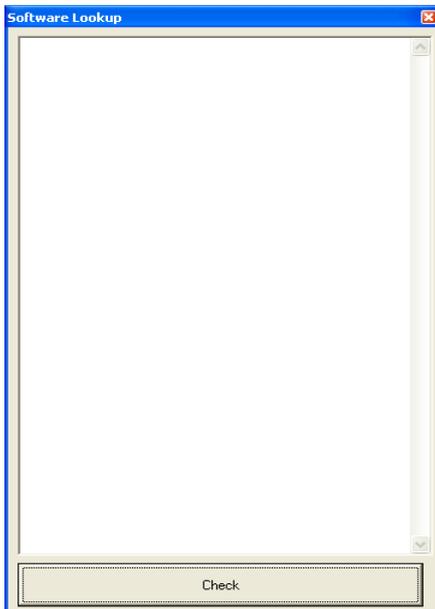


2. Enter the serial number of you're AD900Pro. Note: it will only work for your tester.



3. Click **OK**.

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



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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