

JMA®

MANUAL DE INSTRUCCIONES

INSTRUCTION MANUAL

ANWEISUNGSHANDBUCH

NOTICE D'UTILISATION

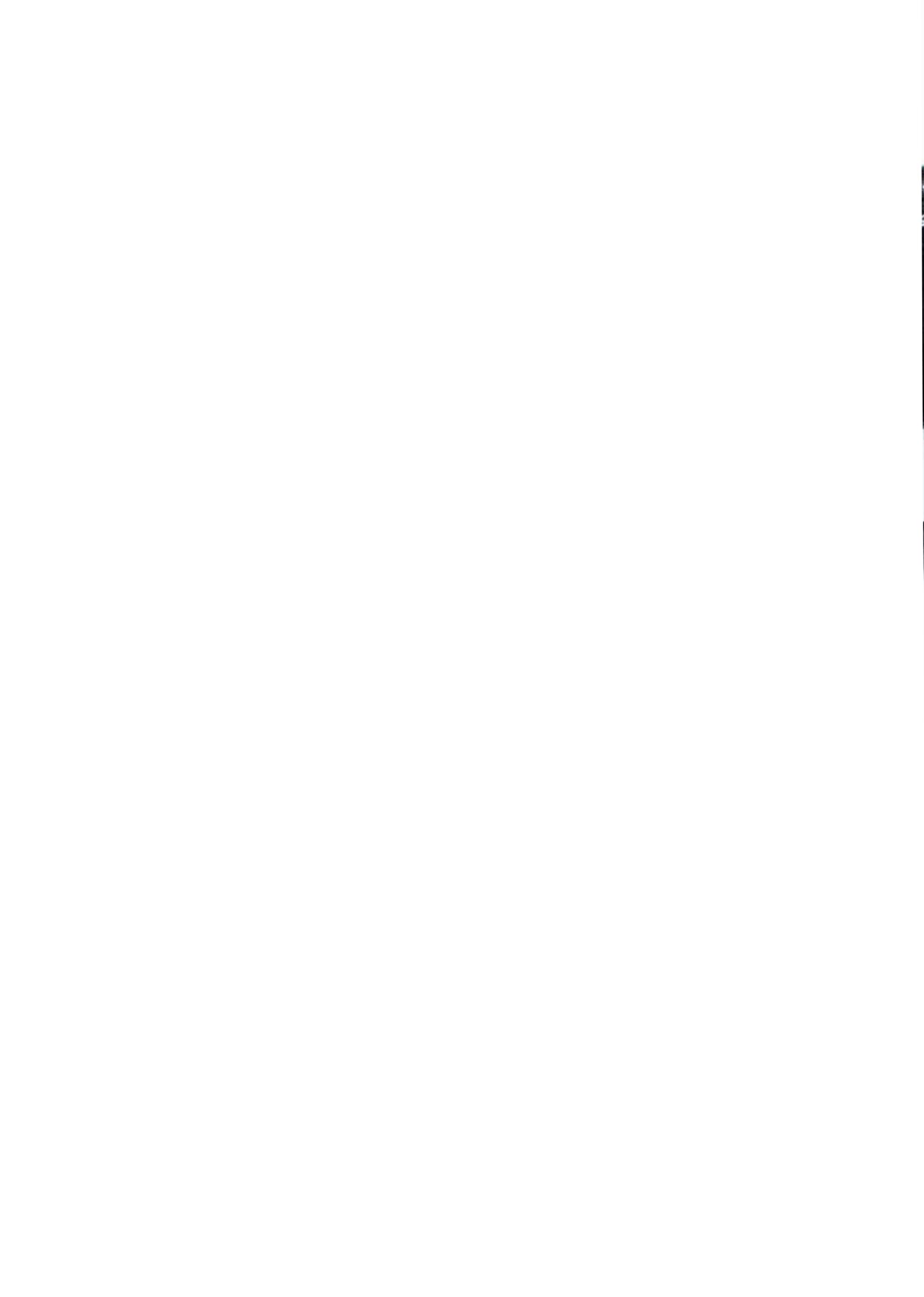
MANUAL DE INSTRUÇÕES

INSTRUKCJA OBSŁUGI

ИНСТРУКЦИЯ ПО
ЭКСПЛУАТАЦИИ

EVO XPERT





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1. INTRODUCTION AND GENERAL OVERVIEW

1.1 OVERVIEW

To conclude our evolution of the TRS family, we are launching the EvoXpert.

We have developed a more compact and technologically advanced machine based on the already famous and successful TRS-EVO platform. Besides cloning transponders, this new machine is also capable of generating remote controls and programming them via OBD-II using any of the scanners that can be found in the market.

By applying our philosophy aimed at ensuring total ease-of-use, the EvoXpert has only 1 ON/OFF button that turns the machine on or off based on how long it is pressed:

- On: 1 short press.
- Off: 1 long press (4 seconds).

EvoXpert requires an Internet connection because the decryption algorithms for the various types of technology that exist in the market (Megamos Crypto/Philips Crypto/Texas Crypto, etc.) run on the calculation servers installed at JMA.

If you encounter any difficulty using or starting up your device, please contact the Technical or Customer Services Department of the Altuna JMA Group.

1.2 TRANSPORT AND PACKAGING

The machine comes secured by a Velcro strip inside a cardboard box with the following characteristics:

- Width = 147.72 mm
- Length = 176.64 mm
- Height = 78 mm
- Weight = 550 g

When unpacking your machine for the first time, carefully inspect it for any possible damage that may have occurred in transit.

If you find anything out of the ordinary, do not use the machine and contact the Technical or Customer Services Department of the Altuna JMA Group.

2. TECHNICAL CHARACTERISTICS

EvoXpert not only offers the same comprehensive range of cloning options for all the leading transponder manufacturers as the TRS-EVO but also includes the option to prepare remote controls for opening the vehicle.

All the features of this device are available immediately because its software has not been fragmented to thus enable additional charges for certain specific features.

Unlike the TRS-EVO, which could calculate some of the technologies present in the market (Philips Crypto HT2 / Texas Crypto DST40) with no connection whatsoever, EvoXpert requires uninterrupted Internet access because users need to log in to verify the EvoXpert database and to check that access is available to the calculation servers located at JMA.

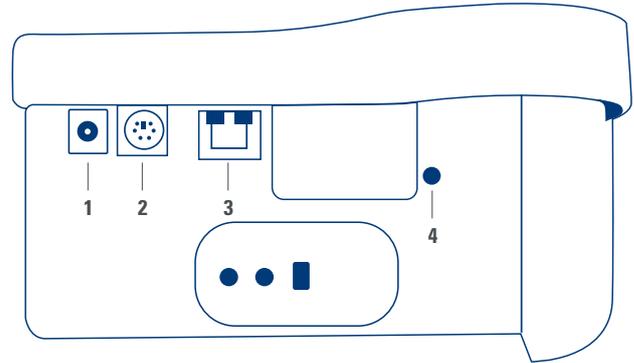
EvoXpert has been fitted with all the necessary connectivity features to make Internet access as easy as possible. This connection can be established via:

- A wired LAN network (Ethernet port RJ-45, indicated by the number 3 in the image below).
- A wireless Wi-Fi network.

In order to improve the operational capabilities of the machine (and not limit

its use to inside your business premises only), EvoXpert has been fitted with a battery similar to those used in mobile telephones (Ion-Lithium / 3.7Vdc-3050mAh). This provides a limited period of time for copying transponders in places where the machine cannot be plugged in to a mains electricity supply. The remaining charge in the battery is always visible on the device via an LED indicator (which turns red when a recharge is necessary) to inform users of a low battery charge level.

For recharging the battery, EvoXpert comes with a 220AC / (5V/2.4A) power adapter. (Power connection jack indicated by the number 1 in the image below).



When leaving the machine in a fixed location, we recommend also leaving it plugged in to a mains power supply.

As stated at the beginning of this section, EvoXpert is also capable of pre-programming vehicle remote controls that must be subsequently programmed inside the vehicle to become operational.

EvoXpert works with three basic types of blank remote controls:

- KRC100 (TP from JMA (IMMO) and remote control, separate). RKE keys.
- KRC200 (TP (IMMO) and remote control, on the same chip). RKE Keys.
- KRC300 (TP (IMMO) and remote control, on the same chip). SMART Keys.

These can be used for all the models currently available and any others that may be brought to market in the future.

The method for pre-programming these keys will depend on the type of JMA remote control being used and the technology installed in the vehicle.

- For the KRC100 remote controls, a special cable is used for connection to the PS2 port (indicated with the number 2 in the image above). This only records the part of the remote control from the vehicle.
- For the KRC200 / KRC300 remote controls, the same antenna is used as the one used for the R/W of the transponders, and the generated RFid field is used to record both the immobiliser part and the remote control part. Once pre-programmed, they just need to be registered. This can be done either via a sequence of actions (On-Board Programming-OBP controls) or via an OBD-II scanner.

The last feature on the device in terms of functionality is the button on the rear of the EvoXpert (indicated with the number 4 in the image above), which does one of two things depending on how long it is pressed:

- 1 short press: Resets any Wi-Fi configuration settings and returns the Wi-Fi configuration to the default settings (AP Mode). Resets the EvoXpert.
- 1 long 5-second press (do not release early): Resets the EvoXpert. Updates are free, with only an Internet connection and prior registration of the EvoXpert machine required.

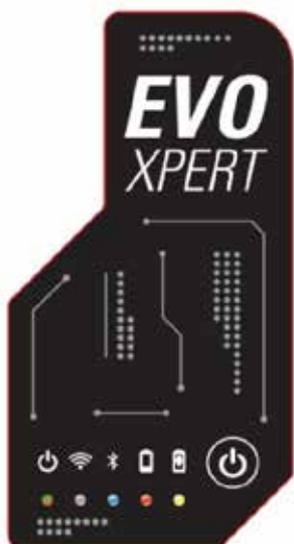
2.1 MACHINE ACCESSORIES

When unpacking your EvoXpert, you should find the following items inside the box:

- Power adapter: Input (90~264 Vac / 50-60 Hz) and Output (5V / 2.4 A).
- Standard LAN cable (Ethernet/cat6) (1 metre), for connection between the Local Ethernet Network with Internet access and the LAN port (RJ-45) on the EvoXpert machine
- Instruction manual
- JMA catalogue
- Cable for programming KRC100 remote controls
- Plastic insert for sniffing HT2 devices (Megamos devices use the copied key)

2.2 MAIN PARTS OF THE MACHINE

Below is a description of the main parts of your EvoXpert machine, starting with the keypad and what the LEDs next to the ON/OFF button represent:



- “Bi-colour” EvoXpert Status LED (Red = Initialising / Green = Ready).
- “White” Wi-Fi LED (ON when connected to a Wi-Fi network / OFF when in AP Mode).
- “Blue” Bluetooth LED (ON when this connection is activated. This will always be off for now because it is not used).
- “Red” battery charge indicator (ON when the battery charge becomes critical, indicating that the EvoXpert should be plugged in to recharge).
- Battery charge indicator LED (ON when the EvoXpert machine is plugged in to the mains).

• 1 (ON/OFF) button (short press = ON / Long press (4 sec.) = OFF).

On the rear of the machine, the following connections are used:

- 1 DC connector: 5.5 x 2.5 x 11mm, C+.
- 1 PS2 connector for programming KRC100 remote controls.
- 1 LAN Ethernet RJ-45 connector.
- 1 dual-purpose button (Reset/Set Wi-Fi to AP Mode).

3. GETTING STARTED

3.1 POSITIONING THE DEVICE

After carefully unpacking the machine, it should be placed on a surface that is not made of metal or any other material that might cause electromagnetic interference during the scan because the antenna is the most sensitive component to such interference and therefore to metallic objects that distort the signal captured from the key, as well as the tuning frequency. For example, a wooden workbench would be a good place to position the machine.

The machine should also be positioned at least 80-100 cm away from any source of electromagnetic interference (computer monitors, televisions, electrical switching devices, motors, walkie-talkies, mobile telephones, laptops, tablets, etc.).

3.2 DEVICE INSTALLATION AND SETUP

Once the machine has been positioned correctly, and based on how it will be used (in-store or outside) and the availability of connections (wired Ethernet LAN/Wi-Fi), the material received with your new machine can be installed:

1. Check that the items contained inside the box you received from the factory are all of those listed in Section 2.1 of this manual on Machine Accessories.
2. Check the EvoXpert battery charge level. Depending on this charge level and the location where you intend to use the machine, you can either plug it in using the Input (90~264 Vac / 50-60 Hz) and Output (5V / 2.4 A) power adapter provided to charge the machine for use outside or leave it permanently connected to the power adapter for use in-store.
3. Based on the location of your EvoXpert and the accessibility between it and your router, which will be providing the Internet access, you can either use the LAN Ethernet cable to connect the two devices or a Wi-Fi signal to link your EvoXpert to your router wirelessly.
4. Finally, link the device you intend to use as a display (any mobile telephone, tablet, laptop, desktop PC, etc.) to your EvoXpert while always maintaining a cautious distance between the transponder scan area and the display device.

3.3 CONNECTIONS: FIRST STEPS

To access the EvoXpert and proceed with the configuration settings, a series of first steps must be followed for either of the two connection methods (Ethernet (LAN cable) / Wi-Fi):

1) Login (username/password) and register our EvoXpert by accessing:

- 1.1) Directly from the link on the login page
(Not registered yet? Click Here)
- 1.2) Directly typing the JMA registration website address into your browser:
(http://www.jma-tp.com/users/registration_2php)

2) Connect the EvoXpert machine to the “KEY CLONING PRO” web app.

To do so, use any web browser to enter the host-name written on the label found on the bottom of your machine (evoxpert-xyyzz). Given that all major web browsers now use the HTTPS Internet communication protocol, if the “Key Cloning Pro” web app fails to load, you will need to enter the host-name using standard Internet protocol (<http://evoxpert-xyyzz>).

For this example, our machine was connected to the Internet via an Ethernet cable. This caused the following icons to be activated on the lower toolbar:



3) For access to the servers, you will need to log in with your Username & Password (which are the same as those entered during the registration process and that, if forgotten, can always be recovered using the e-mail address used during the registration process). This will activate the ‘user logged in’ and the ‘server connected’ icons on the lower toolbar:



After completing the three steps above (and in the EvoXpert example used), you should see the first four icons on the lower toolbar activated. Pressing the Tools icon (on the right, in the upper Menu bar) will open a drop-down menu. If you select the CONNECTIONS option, you will be shown the communication parameters explained in Section 4 in more detail.



4. CONNECTIONS: CONFIGURATION SETTINGS MENU

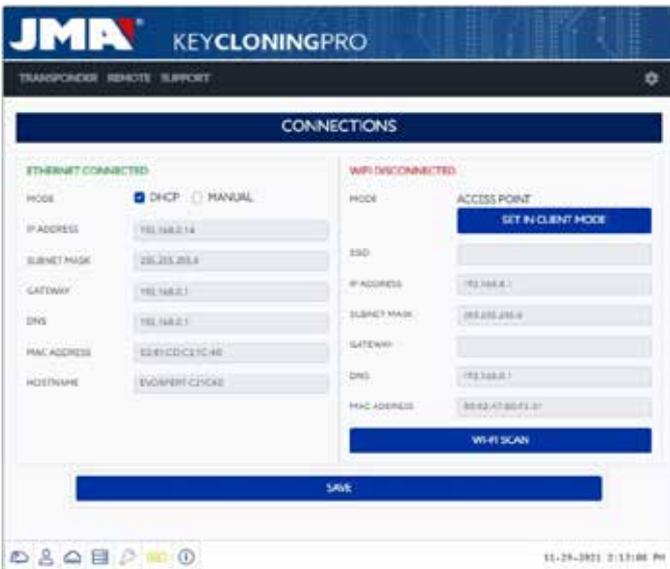
After opening the Connections Menu (by clicking SETTINGS/CONNECTIONS), you will see both the type of connection currently enabled and the various parameters of that connection.

Both connection modes can be enabled regardless of the mode (Ethernet/Wi-Fi) used to connect previously.

To switch modes, you just need to:

- Enable the new parameters on the connections page.
- Wait for EvoXpert to restart automatically so that the new settings for either option are stored.

The image below shows the default connections that are configured by JMA on all EvoXpert machines, for both Ethernet and Wi-Fi connections:



- Ethernet connection (wired LAN network). **Mode = DHCP:**

For a wired connection (via Ethernet), the IP address for the network to which you have connected is obtained automatically.

That is what is meant by DHCP (Dynamic Host Configuration Protocol).

In this case, the assigned router address is the one shown on the left in the image above. However, this will be different for each client.

- Wi-Fi connection (wireless Wi-Fi network). **Mode = AP Mode. (Access Point - AP Mode):**

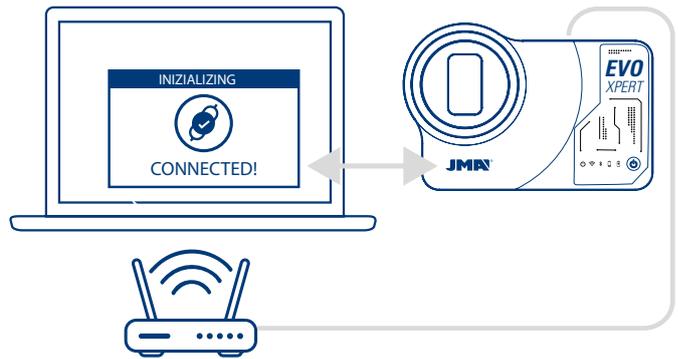
In this case, the EvoXpert machine creates a Wi-Fi network but does not yet provide Internet access.

In this mode, the Wi-Fi network created lets you configure the network name (SSID) and the Wi-Fi network password for the client router with Internet access.

This address and the password are the same for all EvoXpert machines.

The main connection types for EvoXpert are explained below

4.1 ETHERNET CONNECTION (WIRED LAN NETWORK)



Whenever the router can be accessed from wherever you choose to position your EvoXpert machine, we recommend using an Ethernet cable between the two devices as this provides faster communication, is much easier and transfers data more quickly.

If the client's router is configured in DHCP mode (as the vast majority of routers are), the router itself will assign an IP address to your EvoXpert machine for subsequent Internet access.

No additional configuration will be required.

You can access the EvoXpert web app by entering the name shown on the label found on the bottom of your machine into any available web browser. To make this easier (finding the EvoXpert on the network and accessing the web app included with the device), specific apps have been developed for (Android/iOS/Windows) that need to be installed and opened.

For the connection used in our example:

- PC with a Windows OS connected to the router via Wi-Fi.
- EvoXpert connected to the same router via an Ethernet cable.

From the indicated web address (www.jma.es, "downloads" section), download the JMA KEY CLONING PRO setup file and install it on the PC with a Windows OS.

If you are running JMA Key Cloning Pro for the first time, you will need to configure the type of connection being used by the PC (Ethernet / Wi-Fi) in the SETTINGS folder in order to connect to the router.

All the physical cards installed will appear in the Interfaces drop-down list, as well as the virtual connections associated with that PC.



After this initial configuration, the connection will be established automatically on future occasions. (Provided we do not change the PC-Router connection).

To connect to the EvoXpert web app, open the programme and press the SEARCH option to display all the EvoXpert machines that are connected to that network on the panel.



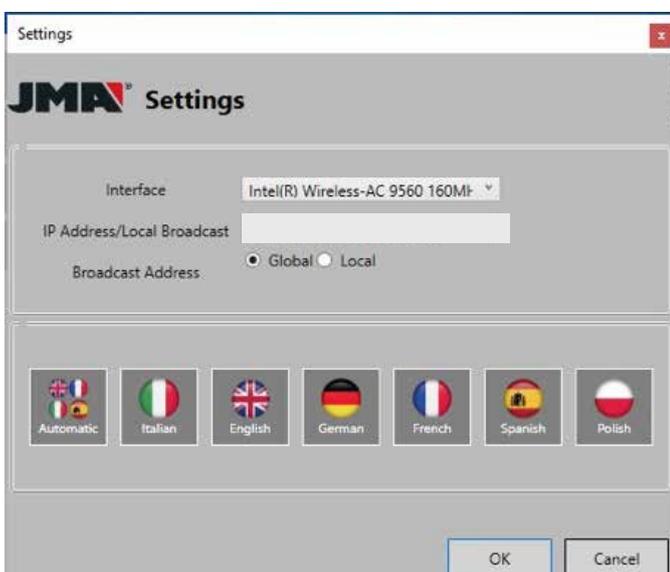
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Finally, double-click on your device, open the app and, after logging in, you will be ready to start copying keys.

If my laptop has been connected to the router via an Ethernet cable, I will need to connect using the Network card in my PC, which in this case is called:



However, given that the connection between my PC and the router is via Wi-Fi, I will need to select the Wi-Fi card in my PC, which has the name indicated below and a set of default addresses:



4.2 WI-FI CONNECTION (WIRELESS WI-FI NETWORK)

If you lack viable Ethernet cable access to the router from the usual EvoXpert location, you can always connect your machine to a router via Wi-Fi.

To do so, the Wi-Fi connection can be configured in one of two different ways:

4.2.1 The simplest configuration in this case is to make a first and only connection via Ethernet cable from where the client router is located following the steps in Section 4.1, and then open the Settings/Connections page:



Once this page is open, you can change the Wi-Fi configuration on your EvoXpert (which comes in AP Mode by default) by pressing Wi-Fi SCAN. This will refresh the WI-FI CONNECTION page.



From this page (after pressing RE_SCAN WI-FI), scan all the Wi-Fi networks within range of the EvoXpert (hidden Wi-Fi networks cannot be configured).



Finally, you will simply need to select the local Wi-Fi network you want to

use, enter the password and press CONNECT.

When switching MODE (AP Mode/Client Mode) or Wi-Fi network, the EvoXpert will automatically restart itself, so you will need to wait for the Status LED to turn green again for the changes (EvoXpert configured in CLIENT MODE with Internet access via the local Wi-Fi network) to become effective.

Note:

Remember to disconnect the Ethernet cable used to enable this initial configuration (Wi-Fi express) before the machine restarts.



Once the EvoXpert is connected via Wi-Fi to the client router, you just need to connect the device you will be using as your display (mobile/tablet/PC/laptop) to the same Wi-Fi network on the client router. This is because both the EvoXpert machine and the display device you want to use (mobile/tablet/laptop) must be connected to the same network. Once they are both connected to the same network, you will be able to use your EvoXpert from any web browser.

4.2.2 Wi-Fi Connection (wireless Wi-Fi network)

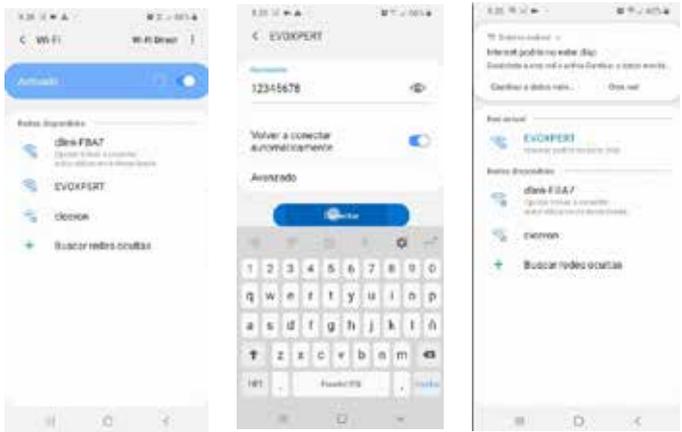


Whenever you lack Ethernet cable access to the router or you only have a Wi-Fi router or a smartphone in tethering/hotspot mode as your only way to access the Internet (when travelling to vehicles away from your usual business premises), you will always need to configure the EvoXpert Wi-Fi connection in AP Mode (Wi-Fi generated by your EvoXpert).

In this example, we will use an Android mobile to make the connection, but any other device with a Wi-Fi connection can be used. This connection process takes place in two stages:

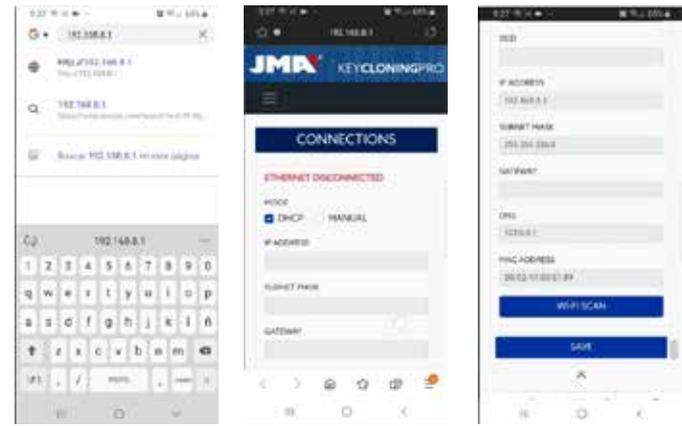
4.2.2.1 In the first stage, and given that your EvoXpert leaves the factory with its Ethernet connection set to DHCP Mode and the Wi-Fi network in AP Mode (Access Point), you will need to find and select the Wi-Fi network generated by your EvoXpert machine on the terminal being used as your display from among all the available Wi-Fi networks. It will be called **EVOXP**. You will need to enter the generic password (the same for all EvoXpert machines): 12345678.

Press Connect to establish a connection between the device being used as MMI and the EvoXpert web app.
At this point, you will not have configured any Internet access on your EvoXpert so you can accept the message stating that the Wi-Fi network to which you have connected has no Internet connection.

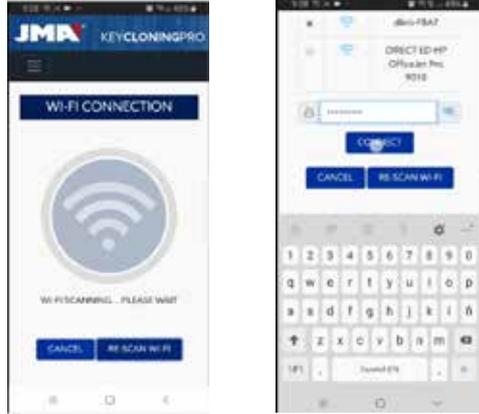


4.2.2.2 The second stage will require you to use any web browser available on the access terminal used for connecting to the EVOXPRT Wi-Fi network and enter the web address that appears on the label found on the bottom of your EvoXpert (192.168.8.1).

The web page will automatically display your communication configuration settings menu.
Browse to your Wi-Fi connections (just below the Ethernet connections) and press SCAN WI-FI to display the next menu.

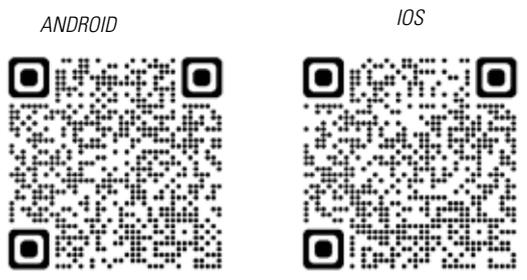


Here, press RE-SCAN WI-FI and select your router from the list of available Wi-Fi networks, for which the SSID is the name of the Wi-Fi network (in this case, dlink-FBA7) and the password is the one used to access the Wi-Fi from the client router.



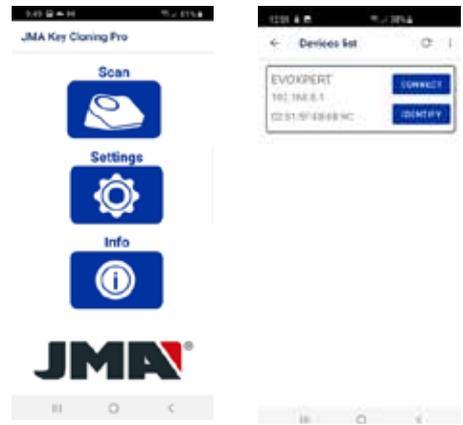
After entering the Wi-Fi network settings, after pressing CONNECT and while waiting for your EvoXpert machine to automatically restart itself, you can connect the display device (the mobile in this case) to the same Wi-Fi network because all the devices (EvoXpert and connection device being used as a display) must be on the same network.

To make this easier (finding the EvoXpert on the network and accessing the web app included with the device), specific apps have been developed for (Android/iOS/Windows) that need to be installed and opened.
The following example shows the same steps as explained in Sections 4.2.2.1 and 4.2.2.2 but executed from the app installed in Android.
You can download and install our JMA KEY CLONING PRO app by scanning the QR Code supplied or by searching in the Google Play Store or the Apple Store.



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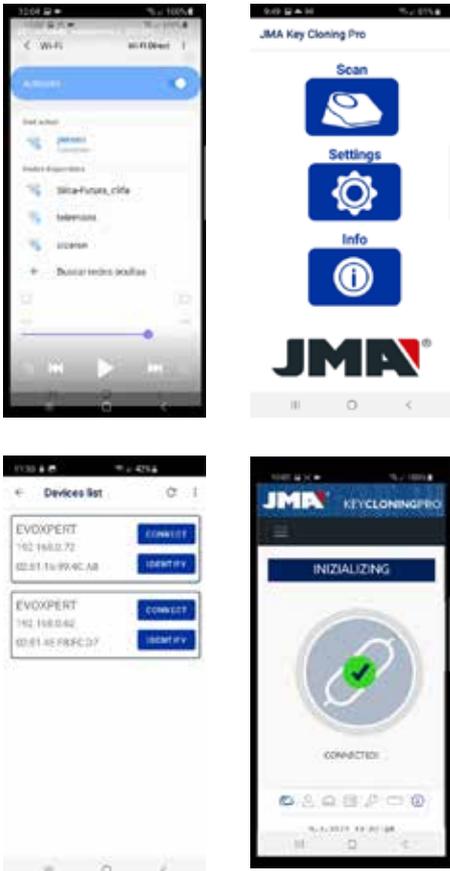
As stated in Section 4.2.2.1, you need to select the Wi-Fi network generated by your EvoXpert machine (called EVOXPRT) on the Android device and then open the JMA KEY CLONING PRO app.



Press the Scan option and your EvoXpert machine will appear on the list of devices at the address (192.168.8.1), which is AP Mode by default.
Click connect and the connections page will open by default, where you will need to select the client Wi-Fi Network so your EvoXpert can gain access to the Internet.

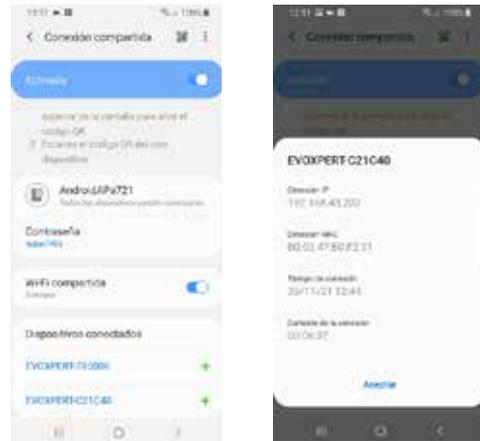


While your EvoXpert machine restarts automatically with the new client Wi-Fi network settings (wait to re-scan devices connected to the JMA Key Cloning Pro app until the status LED completes the Green-Red-Green cycle). Do not forget that the same Wi-Fi network as previously selected on your EvoXpert machine must also be selected on the Android terminal being used as a display device because the two devices must be on the same network to function.
Once the two devices are connected to the same NETWORK, you can now scan the EvoXpert terminals again with the JMA KEY CLONING PRO app and connect to your machine.



After pressing **CONNECT** and waiting for your EvoXpert to restart (the Status LED completes the Green-Red-Green cycle), you will have configured the Wi-Fi connection on your EvoXpert to work with the Hotspot Wi-Fi network on your mobile.

On some mobiles, you can check that this connection has been established correctly by checking that the EvoXpert hostname (in this case, `evoxpert-C21C40`) appears on the list of devices connected to the mobile Hotspot.



After connecting to your EvoXpert machine, you just need to log-in using your account details to perform any copying process, now with full access to the calculation servers located at JMA.



Having verified this step, the IP address that appears when clicking on the hostname for the EvoXpert machine in connected devices (`EVOXPERT-C21C40` in this case, which translates to IP: `192.168.43.202`) can be used with any browser on that mobile to access the web pages of the EvoXpert, with an Internet connection obtained via the 4G/5G service on the customer's mobile.

An easier way (as explained in Section 4.2.2.1) is by clicking on the JMA KEY CLONING PRO app, finding your EvoXpert machine (to which you want to connect) on the Wi-Fi HotSpot network created by your mobile and connecting to it.

NOTE:

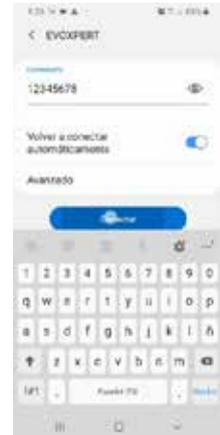
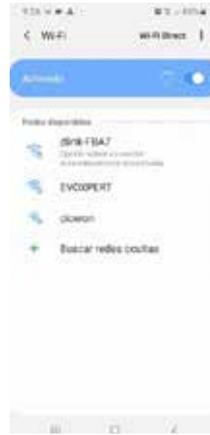
Before opening the JMA Key Cloning Pro app in HotSpot mode (shared connection), we recommend disconnecting Wi-Fi on your mobile because, if you scan with the two networks enabled at the same time, the app will find your EvoXpert machine on the normal Wi-Fi network by default and not on the HotSpot Wi-Fi network.

At this point, both the EvoXpert and the mobile could be switched off while travelling and switched back on again when reaching the test location in the following order:

4.3 MOBILE HOTSPOT WI-FI CONNECTION

Bearing in mind that the portable nature of EvoXpert means the machine can be used on vehicles that are not located at your usual business premises, the following settings will need to be configured in the Wi-Fi connections section so that EvoXpert can be used in these conditions. This configuration process is described below:

4.3.1 The easiest way to set up your connection for this situation is by connecting to your business Wi-Fi network (in the example above, that would be Perseo) and, before heading out to the vehicle to make the copy, searching for your mobile Wi-Fi (in Hotspot Mode) to enter the SSID and password of your mobile hotspot network.



Or access that web page by opening JMA KEY CLONING PRO:

- First the Mobile (setting it to Hotspot mode).
- Then the EvoXpert.

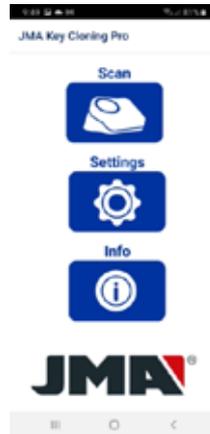
Any browser installed on the mobile can now be used to type in the hostname of the EvoXpert (<http://EVOXPERT-C21C40>) or the IP address assigned to the EvoXpert and an Internet connection will be established via the 3G/4G service on the mobile.

4.3.2 If, for whatever reason, you forget to establish a mobile Hotspot connection while inside the store, you can follow the Wi-Fi configuration steps described in Sections 4.2.2.1 and 4.2.2.2, with a few differences:

- Because your mobile is in Hotspot Mode (producing a Wi-Fi network), this handset cannot be used to connect to the Wi-Fi being produced by EvoXpert. Therefore, and ONLY to establish this initial connection via the already known IP address 192.168.8.1, you will need a tablet, mobile or other device with Wi-Fi to connect to the EvoXpert and navigate to the Connections page to search for the Wi-Fi from the mobile being used as a hotspot.

- Because EvoXpert was already configured to connect to your business Wi-Fi, you will need to hold the Reset button for 1 second and return the machine to its default settings in AP Mode (Access Point) so the "EVOXPERT" Wi-Fi network is activated. **IMPORTANT:** If you do not hold the button down (producing a short press), you will perform a standard reset.

Therefore, you should perform this first part of the connection process with the mobile you are NOT using in HotSpot Mode in order, as explained above, to connect to the EVOXPERT Wi-Fi network generated by your terminal and open the default web page at 192.168.8.1 from any web browser on that mobile:

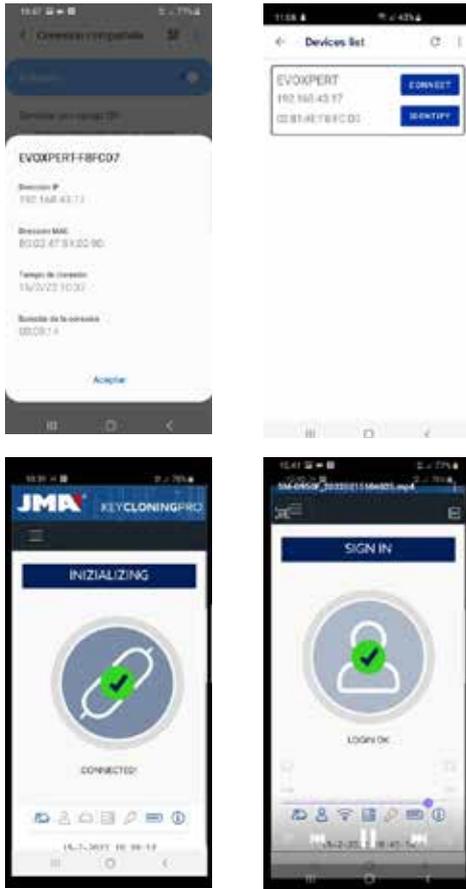


Where the terminal is selected and the website opened in a single step by directly accessing the Connections page, where the HotSpot Wi-Fi network from the mobile is entered.

After waiting for the EvoXpert to restart, you can check that the EvoXpert is actually connected to that HotSpot Wi-Fi network in shared connections (connected devices).



Remember that, if you want to open the JMA KEY CLONING PRO app on the terminal on which you have selected the HotSpot option, you will first need to disable normal Wi-Fi.
The steps for opening JMA KEY CLONING PRO are those described above:

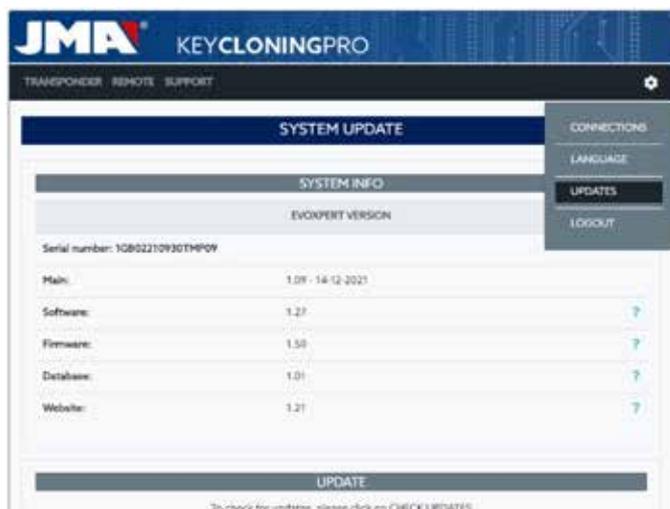


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5. UPDATES: 1-TP PART/ IN SETTINGS & 2-REMOTE PART/ IN REMOTE.

To completely update your EvoXpert machine, as well as update all the components of the SETTINGS/UPDATES menu, you also need to update the components of the REMOTES/UPDATES menu.

These update processes take place separately.
Let's start with a brief description of all the components that make up the heart of the system (under the heading of SYSTEM INFO) and that are displayed when loading the SETTINGS/UPDATES page:

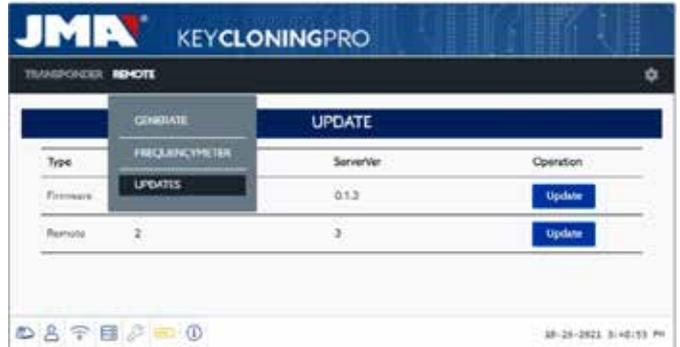


1) SW update:
This process updates the main service running on your EvoXpert. Among other things, this is responsible for managing communications both between the various boards and the data traffic to/from the servers located at JMA.

2) FW update:
This process mainly updates the management of transponders.

3) DB update:
This process updates the various tables in the various databases that make up EvoXpert with new text definitions, new transponders, etc.

4) Website update:
This process updates the pages and content displayed by EvoXpert each time you connect to it.
To conclude this description of all the components, those that are displayed when loading the REMOTES/UPDATES page are described below:



Firmware and Remotes update the following, respectively:

- 1. Firmware:**
This process updates the number of Remotes prepared using the EvoXpert machine.
- 2. Remote:**
This process updates the tables, names and new texts that are included in the Remote databases.



5.1 UPDATES: 1. THE TP PART/IN SETTINGS. AUTOMATIC UPDATES.

When loading the SETTINGS/UPDATES page of your EvoXpert machine and because the AUTOMATICALLY CHECK FOR UPDATE option is enabled by default, the local versions of modules present on your EvoXpert machine are automatically checked against the latest versions released on the JMA server.
The icons appearing to the right of the module versions clearly tell you the status of the version you are currently using:



The latest official version of this module on the server is currently installed on your EvoXpert machine.



This module on your EvoXpert machine is out-of-date and pending update to the latest official version on the server.



To update the module(s) in question, you just need to accept (press YES) on the message that appears after pressing UPDATE SYSTEM.

A page will then load showing you how many modules have been updated and the update progress for each one:



Your EvoXpert machine will automatically restart when the update process is complete and will be fully up-to-date after restarting.

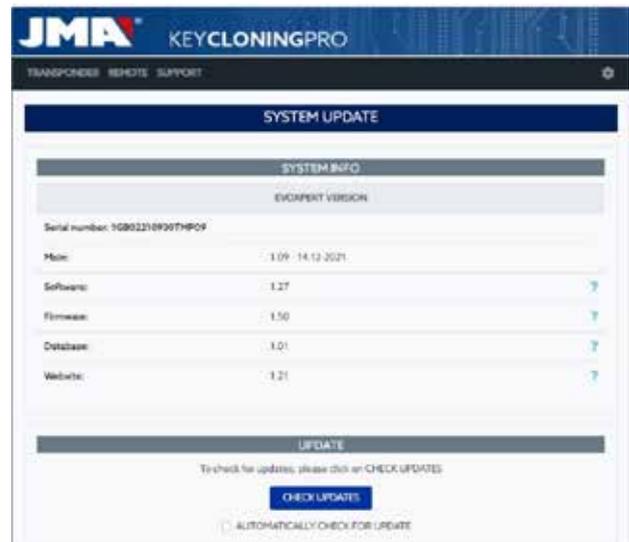


NOTE:

If, for whatever reason, you disable the AUTOMATICALLY CHECK FOR UPDATE option, a different icon may appear to the right of the module versions:



Module on EvoXpert machine not defined and pending UPDATE SYSTEM.



To determine the real status of the modules on your EvoXpert, you will need to first press CHECK UPDATES.

After doing this, the real status of your modules will be displayed. Clicking UPDATE SYSTEM will update any modules that are out-of-date.

5.2 UPDATES: 1. THE TP PART/IN SETTINGS. MANUAL UPDATES.

From the same **SETTINGS/UPDATES** page on your EvoXpert, we have included a section called **MANUAL UPDATE**.

Using this new feature, we can create a unique update so that one specific client can test either a new product or a correction to a specific EvoXpert module without all our other clients being affected.

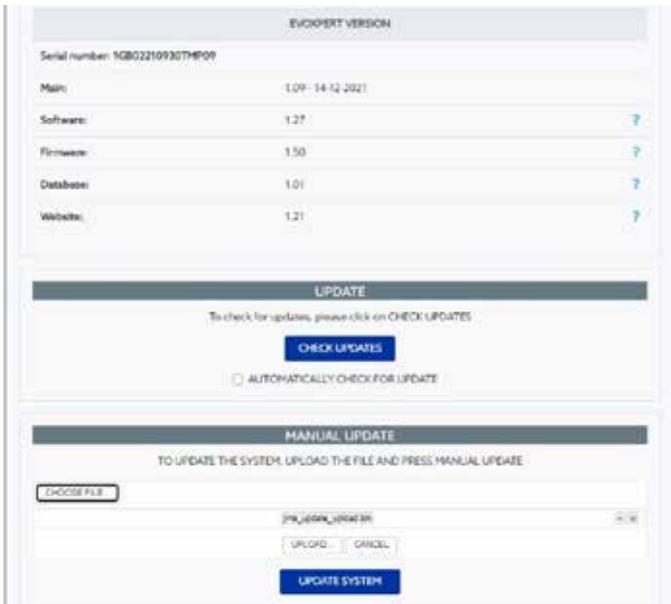
By pressing UPDATE SYSTEM from the MANUAL UPDATE section, you will be asked to start downloading a file.



Press **CHOOSE FILE** and, from the local folder where the manual update was saved, upload it to the website and download it to the EvoXpert after pressing **UPLOAD**.



From here, the update process is the same as described above for the automatic updates and it can be activated by pressing UPDATE SYSTEM.



After checking that everything works properly, the new version can be activated on the server and will be available to everyone via the AUTOMATIC UPDATE process.

5.3 UPDATES: 1. THE TP PART/IN SETTINGS. MAINTENANCE.

Rather than switching your EvoXpert off and on using the power button, this can also be performed via SW by pressing REBOOT SYSTEM.



If you have more than one machine available, the IDENTIFY button will identify the device you are connected to with three flashes of the Bluetooth LED.

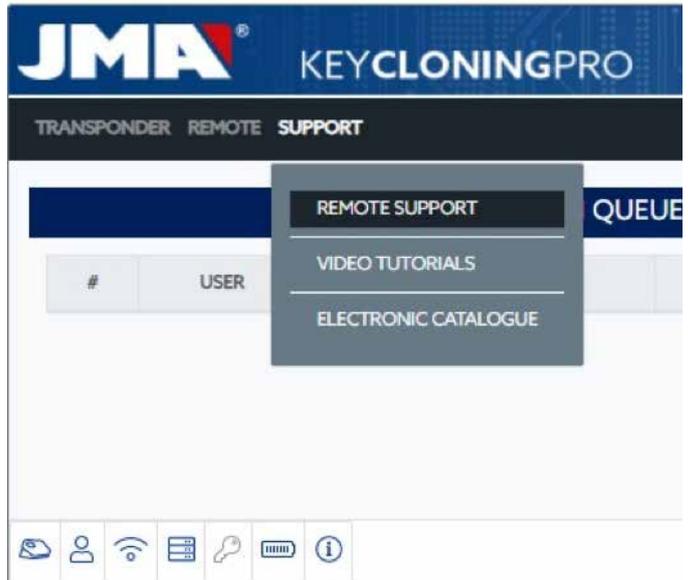
The RESTART button only restarts the board responsible for the transponders.

SUPPORT: HELP MENU AND REMOTE ASSISTANCE

Depending on the OS you are using (Windows, MAC, iOS or Android), pressing this option (for Windows) will download the JMA TeamViewer to allow experts from our technical assistance service to access the client device and solve the problem that led to your query.

Given that this technical assistance service requires the available JMA experts to receive the Username and Password generated by TeamViewer, we recommend getting in touch with the JMA technical assistance service by telephone first (+34 943793000) so that an available expert from the department in question can advise us about the problem that led to your query.

After that, everything can be fixed by activating **Remote Support**.

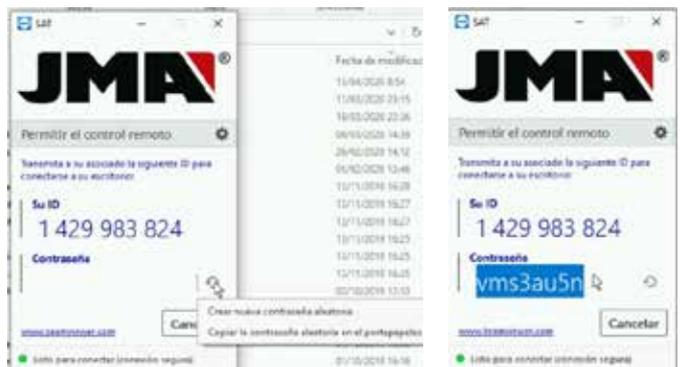


Download the JMA TeamViewer app:



Run the program that was downloaded from the DOWNLOADS directory.

Generate a random password that is only valid for this specific session (create new random password).

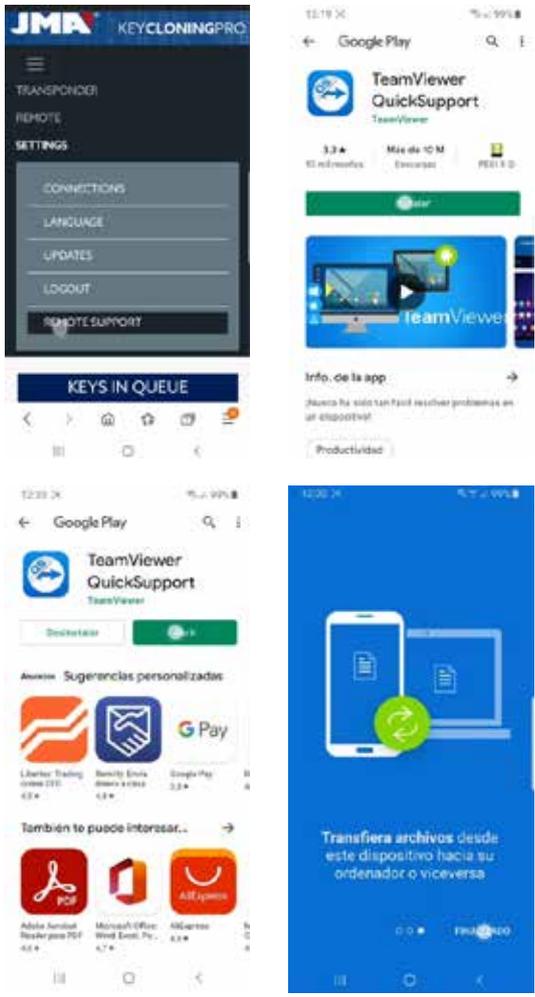


Finally, you will need to provide those two parameters to the experts from the JMA technical assistance service so they can solve the problem with the client.

When using the Android OS (e.g., when using an Android mobile as MMI with EvoXpert), the installation of TeamViewer will be slightly different. In this OS, you do not need to directly download the JMA TeamViewer app but rather the official TeamViewer app from Play Store.

7. TRANSPONDERS - CLONING ID48 KEYS

The copy process begins automatically after inserting any key with a transponder into the device's antenna.



Your EvoXpert machine will identify the key and also tell you whether the copy is made instantly or via access to the calculation servers located at JMA.

In this example, for an original Audi A1 (2013) key, we need to access the Megamos codes server. This will become apparent when the Pop-up Menu below appears.

COPY KEY

NOTE: ALL THE FIELDS MARKED WITH * ARE NECESSARY

CAR MANUFACTURER *

CAR_MODEL *

EMAIL

MOBILE

NOTIFY TO CUSTOMER BY EMAIL

CANCEL **CONTINUE**

You can fill this in completely or partially but you must enter information in the required fields marked with * (Brand / Model).

This menu is displayed whenever the client has purchased & registered their EvoXpert machine correctly.

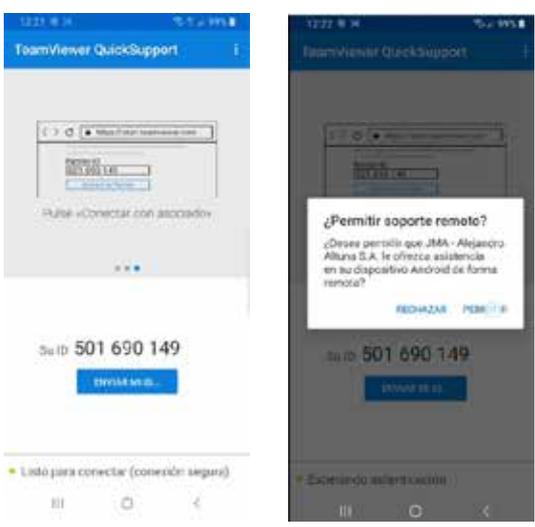
This registration process not only allows access to the Megamos 48 server (current key) but also allows the key technologies listed below to access their respective servers at JMA.

- Texas DST40.
- Texas DST80.
- Philips HT2 (46).
- TOYOTA-AES (pending connection to the EvoXpert machine).
- HONDA-G (pending connection to the EvoXpert machine).

Whenever you are using the guided copy process, you will then be told which type of blank JMA chip you need to insert, in this case a blank TPX8/TPX8+ chip:

The copy process continues by changing the chip settings and setting it to SNIFF Mode so you can then collect certain data from the vehicle ignition

After downloading and installing the TeamViewer QuickSupport app from Play Store, the user ID is the only information you need to provide to the experts from the JMA technical assistance service so they can quickly and easily connect and solve any problems with the client. The user ID is random and only provides temporary access to the handset. This access is interrupted either when JMA closes the session or when the client closes the TeamViewer QuickSupport app. If you need to reconnect, the client will need to open the app again and send the new number generated by the app to the experts at JMA given that the previous number can no longer be used.





Given that you might have different keys with access to different servers at different stages of the process (based on the transponder technology), the individual process control panel on each client machine will be displayed while a transponder is inserted into the antenna. This panel shows the progress of your keys and the precise status of each one in the process:



After the data has been collected from the vehicle (see the JMA YouTube channel for different videos about sniffing that were published previously for the TRS-EVO), EvoXpert allocates the data to the correct key from the list on the client control panel according to the key ID:



After reading the sniffed data, the process will ask you to reinsert the original key to collect different frames-responses. These basically provide the information that will be sent to the calculation server:



If the frames are correct, the process continues to either the **Key in Queue** status depending on how many people are processing keys at the same time (Megamos) or the **Processing Key** status if there was nobody waiting in a queue.

lock.
This data collection process is exclusive to key types with Megamos Crypto and Philips Crypto II technology.
For all other technologies (broadly those described in the type of servers implemented at JMA), you only need to scan the original key and the frames (challenge-response) that you collect from the original key in the device's antenna.



If the operating mode change process continues correctly, the following menu will be displayed telling you to collect data from the vehicle ignition lock.



After the calculation period, which is different for each key in the **Processing Key** status, the process will conclude with the **Key Found** status.



Having reached this stage of the process and the server has the code for your key ready, there are two ways to proceed with the final copy onto the blank JMA transponder indicated in the panel under the Copy to TPX8/TPX8+ column.

1. If you only have one key in the panel, as in this case, insert the indicated JMA TPX chip (in this case, a blank TPX8/TPX8+) and the copy process will begin automatically.



2. If you have several different keys in the panel with different technologies (Megamos, Philips, Texas, etc.), you will need to select the key you want to copy (click on the pencil icon in the first column of each row of keys that have previously reached the "Key Found" status (green), which clearly indicates that the data are ready on the server and that they need to be sent to the JMA TPX chip indicated under the COPY ON column:



Staying with the guided copy process, the copy menu shown below tells us which JMA TPX chip to use based on the type of chip in the original key:



ENGLISH

This will also conclude with the TPX overwrite menu shown in option 1. For both copy options, the final menu asking us whether you want to make another copy is the same.



If you do not wish to make another copy right now, press NO so that the key is deleted from both the Pending Keys process on the server and the task control panel on the client machine.

If you subsequently decide to make another copy of the same key, bear in mind that the chip technology will dictate whether you are asked to collect sniff data from the vehicle again and send that information to the servers to complete the search, which, also depending on the technology in the original key, will complete the process with a shorter search time.

8. TRANSPONDERS - CLONING DST80 KEYS

There are two main groups within the technology used in Texas DST80 keys.

- Those that require no access to the servers for calculation (TOYOTA-G).
- Those that do require access to the servers for calculation (FORD/HYUNDAI-KIA/MAZDA).

The group requiring server access can be further subdivided into two subtypes:

- DST80-FAST: Calculation time <30 seconds (FOCUS/FIESTA/KIA OPTIMA).
- DST80-Timing: Calculation time >30 seconds and requiring the key to be

left in the antenna for the duration of the copy process.
 As with all other keys, the copy process always begins automatically after inserting a key with a transponder into the device's antenna.
 The key icon will change from grey (NO KEY) to blue (KEY IN).

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In this case, we can see the scan from a KIA Optima with key technology based on Texas DST80 and the DST80-FAST, based on the calculation time required on the JMA servers.
 There are other models in the HYUNDAI-KIA / FORD / MAZDA group that also use this DST80-FAST type.

As in the previous example, this process will require our servers at JMA to process this type of key so the access menu will be displayed:

COPY KEY X

NOTE: ALL THE FIELDS MARKED WITH * ARE NECESSARY

CAR MANUFACTURER *

CAR_MODEL *

EMAIL

MOBILE

NOTIFY TO CUSTOMER BY EMAIL

CANCEL **CONTINUE**

This type of technology (DST80) does not require any data sniffing in the customer's vehicle.
 All you will need are the frames obtained from the original key using the antenna on your EvoXpert machine.

After sending the frames to the server and based on the number of current requests, your key will be given the status of Key in Queue until it is your turn.

Naturally, all this information is displayed on your client panel.



After passing through the Processing Key stage, the key status will eventually change to Key Found.



As is the case with the Megamos key we used in the previous example, there are two ways to proceed with the final copy onto the blank JMA transponder indicated under the "Copy On" column: TPX7.
 If you only have one search process under way, you can simply insert the blank JMA transponder indicated and the copy will begin automatically.
 However, if you have more than one key on your control panel, you will need to click on the Write Key icon for the one you want to copy to force a manual copy process onto the chip indicated under the Copy On column: TPX7.



The copy will begin after inserting the JMA chip indicated for the type of technology in question:



Finally, the process will ask whether you wish to make another new copy.



Press NO to decline and complete the process if you do not wish to make another copy.

As in the previous example, if you subsequently wish to make another copy, you will need to collect the frames again using the EvoXpert antenna and send the information to the servers to complete the search process. For the key used in this example, that will take the same amount of time as the previous search.

In short, there is no time saving advantage when calculating the same key a second time without doing so via the Copy Another button.

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