



## Program Transponder Keys - Ford

The application can be used to erase and program transponder keys on vehicles that are equipped with an immobiliser.

When the PATS (Immobiliser) is selected, you will be asked to specify the type of connection to the car as follows.

```
Fiesta/Courier ECU selection menu
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PATS 2 pin
PATS 16 pin connector
PATS 16 pin connector (ISO)
PATS 16 pin connector (PWM)

Select fitted connector to PATS
↑/↓/ENTER/EXIT

F1:Help F2: F3:
```

The number of connectors on this menu will depend on the model selected. If no 16-pin connector is present, use the 2-pin connector in the engine bay. For 16-pin systems, simply select the first 16-pin option. If no connection to the car is established, select the next option until a connection is made.

After entering the authorisation code, the following menu will be displayed.

### Master key systems

Some Ford vehicles use a master key programming system. These vehicles are supplied with a single red key and two or more black keys. The red key is the master key that can be used to program additional keys. The black keys are known as slave keys and are used for driving the vehicle.

- **Count keys**  
The count keys option can be used to report the number of keys known by the Immobiliser. This can be used to check that keys have been erased and programmed successfully.
- **Program new master / slave keys**  
This option will erase all keys currently known by the Immobiliser and allow you to program a new master key and new slave keys.
- **Erase RIM**  
This option will erase keys from the Remote Immobiliser Module used on Diesel vehicles. This will normally be done automatically when program new master / slave keys is selected. Use this option to erase keys from the RIM if the keys have already been erased from the Immobiliser or you do not wish to erase keys from the Immobiliser.



## Two key systems

More recent Ford vehicles (typically after 1997) do not use a master key. Instead, new keys can be added using two previously programmed keys. On these systems, the following menu will be displayed.

- **Count keys**  
The count keys option can be used to report the number of keys known by the Immobiliser. This can be used to check that keys have been erased and programmed successfully.
- **Erase transponder keys**  
This option will erase all currently known keys from the Immobiliser memory. After this option has been used, a minimum of two keys must be programmed before the vehicle will start.
- **Program transponder key**  
This option will program a new key so that it will be recognised by the vehicle.
- **Erase RIM**  
This option will erase keys from the Remote Immobiliser Module used on Diesel vehicles. This will normally be done automatically when Erase transponder keys is selected. Use this option to erase keys from the RIM if the keys have already been erased from the Immobiliser or you do not wish to erase keys from the Immobiliser.

## Security wait time

All Ford immobilisers implement a security wait timer. The tester must be connected to the immobiliser for a set duration before keys can be erased or programmed. The time varies for different models but is typically 8-10 minutes for Petrol vehicles and 25 minutes for Diesel vehicles.

The application will inform you of the length of time to wait and sound an alert when the time has expired. Once security access has been gained it will be maintained as long as the tester is connected to the vehicle and the ignition is not switched off.

When inserting a second new key for programming, you will be prompted by the application to insert the new key within ten seconds of removing the previous key to ensure security access is retained. **It is important to follow this instruction otherwise it may be necessary to wait for the full security time again.**

## Programming Infrared transmitter

- Obtain all keys fitted with remote control.
- Fasten seat belt and close all doors.
- Turn ignition switch from position I to position II at least 4 times within 6 seconds.
- Turn ignition switch to position I. The program mode is activated for 10 seconds.
- Point the first key at the receiver.
- Press and hold the lock button or the unlock button.
- Wait for an acoustic signal (indicates correct programming).
- Repeat the procedure above within the 10 seconds to program the remaining keys.

To exit programming mode, wait 10 seconds or start the engine.



### **Programming Radio frequency transmitter**

- Obtain all keys fitted with the remote control.
- Turn ignition switch from position I to position II at least 4 times within 3 seconds.
- Switch the ignition off and remove the key. The programming mode is activated for 20 seconds.
- Press the lock, unlock or boot button if present.
- Release button.
- Ensure the clock LED flashes (indicates correct programming).
- Wait 2 seconds.
- Repeat the procedure above within the 20 seconds to program the remaining keys.

To exit programming mode, wait 20 seconds or switch the ignition on.