UNLOCKING TECHNOLOGY

ADVANCED DIAGNOSTICS
# CONTENTS

<table>
<thead>
<tr>
<th>APPLICATIONS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADS100 FORD</td>
<td>3</td>
</tr>
<tr>
<td>ADS133 FORD CODED</td>
<td>4</td>
</tr>
<tr>
<td>ADS162 FORD CODED 2007</td>
<td>5</td>
</tr>
</tbody>
</table>

| DIAGNOSTIC SOCKETS LOCATIONS | 6 - 7 |

| GENERAL OPERATION | 8 - 10 |

<table>
<thead>
<tr>
<th>SPECIAL FUNCTIONS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PATS 1 &amp; 2 (PETROL)</td>
<td>11 - 12</td>
</tr>
<tr>
<td>PATS 1 &amp; 2 (DIESEL)</td>
<td>11 - 12</td>
</tr>
<tr>
<td>PATS GALAXY (DIESEL)</td>
<td>13 - 14</td>
</tr>
<tr>
<td>PATS 3 (SCP)</td>
<td>15 - 16</td>
</tr>
<tr>
<td>PATS 3 (SCP CODED)</td>
<td>17 - 19</td>
</tr>
<tr>
<td>PATS 3 (CAN CODED)</td>
<td>19 - 20</td>
</tr>
<tr>
<td>CODED 2007 TRANSIT</td>
<td>21</td>
</tr>
<tr>
<td>CODED 2007 FIESTA</td>
<td>22 - 23</td>
</tr>
<tr>
<td>CODED PROXIMITY</td>
<td>24 - 25</td>
</tr>
<tr>
<td>CODED NON-PROXIMITY</td>
<td>26 - 28</td>
</tr>
<tr>
<td>FALCON BEM</td>
<td>29 - 30</td>
</tr>
<tr>
<td>FALCON PCM</td>
<td>31</td>
</tr>
<tr>
<td>BA FALCON / SX TERRITORY</td>
<td>32</td>
</tr>
<tr>
<td>BF FALCON / SY TERRITORY</td>
<td>33</td>
</tr>
</tbody>
</table>

| VIN CHECKER | 34 - 35 |

| TIPS AND HINTS | 36 |

| REMOTE CONTROL PROGRAMMING | 37 - 41 |

<table>
<thead>
<tr>
<th>APPLICATIONS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CODED 2007 TRANSIT</td>
<td>34 - 35</td>
</tr>
<tr>
<td>CODED 2007 FIESTA</td>
<td>37 - 41</td>
</tr>
</tbody>
</table>

| TIPS AND HINTS | 37 - 41 |

| REMOTE CONTROL PROGRAMMING | 42 - 45 |
# FORD - ADS100

<table>
<thead>
<tr>
<th>APPLICATIONS</th>
<th>AD100</th>
<th>PRO</th>
<th>1234</th>
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<th>ADC110-B</th>
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ADC151 A ADC110-B
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DIAGNOSTIC SOCKET LOCATIONS

FIESTA

MONDEO 2002

FOCUS

PUMA

FUSION/FIESTA

SCORPIO

GALAXY

TRANSIT 2002

GALAXY2

TRANSIT UPTO 2002
DIAGNOSTIC SOCKET LOCATIONS

- COUGAR
- TRANSIT 2007 on
- COURIER
- S MAX 2007 on
- COURIER
- TRANSIT CONNECT
- ESCORT/FIESTA 2 PIN
The FORD PATS systems were introduced on Ford vehicles on 94.5 M.Y. vehicles, and was available from March 1994.

There have been many variations on the original system fitted. This system has a separate PATS Amplifier, however on subsequent systems the PATS module was incorporated into the Engine Management ECU.

**SYSTEM OPERATION**

The PATS system is a PASSIVE Anti-theft system which requires no special procedures for the driver to arm or disarm the system. The system is operated by a transponder fitted within the ignition key’s body, which communicates with the PATS module ignition transceiver mounted around the lock barrel.

The easy method of identifying a PATS vehicle is if the key has a small imprint showing where the transponder is fitted. The code for the transponder is stored in memory within the PATS amplifier or the Engine Management ECU.

The PATS system reads the code when the ignition key is turned from position 0 to position 1. If the correct code is received then the engine will start.

When vehicles are fitted with Diesel Smart Modules or EPIC, the PATS code is stored in these systems as well, and requires clearing when new keys are programmed.

**KEY OPERATION - UP TO 98 ¼ MY**

Three keys are allocated to each vehicle, the first key which is inserted is known as the master and is usually identified by it’s RED colour. The other keys that are used are known as slave keys and are usually BLACK with a RED insert. Up to 16 keys can be programmed into the PATS system.

**KEY OPERATION - 98¼ MY ONWARDS**

The newer systems are only supplied with 2 keys. Both keys are required to program further slave keys. Up to a maximum of 8 keys can be programmed to this PATS system.

**PATS LED INDICATOR**

The LED indicator is used for the PATS system and also other Anti-theft systems fitted to the Ford vehicle range. When the ignition is switched ON, the PATS LED will illuminate for 3 seconds while it performs a self-test, after which it extinguishes. When the PATS system is armed and immobilised the vehicle, the PATS LED will flash quickly.

If there is a fault on the PATS system, and the engine can start, the PATS LED will illuminate for 60 seconds continuously, and then flash the PATS fault code 10 times. If the engine is unable to start and disabled by the PATS system, then the PATS LED will FLASH for 60 seconds and then flash the PATS fault code 10 times. PATS LED is mounted either in the front headlining or next to the heater controls/clock.

**PATS SYSTEM - PROBE ONLY**

The PATS system fitted to the Probe is unlike the other systems. The main difference is the system cannot be diagnosed with the FDS2000 or the AD PROGRAMMING SYSTEM. Additional keys and re-programming of new keys are performed in a different procedure as well.
INTRODUCTION - CODED ACCESS

The Ford coded access system was introduced in the year 2002, and the first vehicle that had this system was the FORD KA.

The system replaces the TIMED ACCESS, which was first used in 1994.

The new system replaces the TIMED ACCESS countdown timer with a security algorithm which will display an outcode when you try to program keys. This outcode needs converting and an incode is required.

Advanced Diagnostics have developed a system which uses this incode and outcode system, however the way the system works means that it is not 100% accurate and some vehicles cannot be programmed until the codes have been checked.

The system uses an internet system as described on the following pages, and requires web access when you are at the vehicle, Advanced Diagnostics forum access and a valid AD100, MVP, TCODE, Codeseeker or DM100 serial number and passcode to use the system.

NEW FIESTA

The new fiesta can be a difficult vehicle to program, as there are 2 systems TYPE 1 and TYPE 2.

The problem is that it is difficult to know which is the correct one, and therefore because you can communicate with both, it means if you do not identify the correct system, then you have to try both types with the coded procedures.

Here is a guide to identify the systems...

**TYPE 1**

Type 1 are generally up to 2004 model year.

**TYPE 2**

When you try to ADD or CLEAR the system, the MAIN RELAY will click and the FUEL PUMP will run for a brief second, this indicates it is a TYPE 2 system.

Also TYPE 2 systems tend to have CHROME BEZEL/EDGING on the instrument cluster.

Type 2 are generally from MARCH 2005 onwards

**FORD CODED 2007**

Ford have updated their coded system from 2007 for Transit, Mondeo, S Max and later Fiesta.

The system operates on the same principle as the earlier coded vehicles ie it requires an Incode and Outcode via our website.

The differences are:

1. The remote part of the key is programmed when the keys are programmed.
2. Once the keys have been erased, the new keys need to be programmed individually using the **ADD KEY** function.

   **IMPORTANT**: These keys are not cycled in at the end, please follow the on screen instructions.
## FORD SYSTEMS

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>TIMED ACCESS</th>
<th>CODED ACCESS</th>
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<th>IGNITION ON BEFORE CONNECTING TESTER (*)</th>
<th>CLEAR TIME (Minutes)</th>
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(*) TURN IGNITION ON AND LET IMMOBILISER LED STOP FLASHING. THEN CONNECT TESTER.
# SPECIAL FUNCTIONS

## PATS 1 & 2 (Petrol)

### KEY PROGRAMMING

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<tr>
<td>+ HONDA / ACURA</td>
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<tr>
<td>+ HYUNDAI</td>
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<tr>
<td>+ INFINITI</td>
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</table>

### VEHICLE SELECTION

| + AUS             |
| + EURO           |
| + USA            |
| + S. AMERICA     |

---

**THE FOLLOWING PROCEDURE SHOWS 'BY VEHICLE' SELECTION. IF 'BY SYSTEM' IS CHOSEN THEN THE SYSTEM TYPE WHERE KNOWN IS SHOWN IN THE APPLICATION PAGES**

### VEHICLE SELECTION

| + BY VEHICLE       |
| + BY SYSTEM        |

### DIAGNOSTIC MENU

<table>
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<th>CLEAR / ERASE PATS</th>
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### ECU IDENTIFICATION

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### CLEAR / ERASE PATS

- KEYS PROGRAMMED: 2
- CLEAR TIME: 8.00

### CLEAR PATS 1 SYSTEM

- ALL KEYS CLEARED
- KEYS PROGRAMMED: 0

---

### CLEAR PATS 1 KEY

- SWITCH IGN. ACCESSORY
- IGNITION STATUS: ON

---

### CLEAR PATS 1 KEY

- TIME REQUIRED: 8.00
- ********
- BACK TO ABORT

### CLEAR PATS 1 KEY

- KEYS PROGRAMMED: 0

---

### CLEAR PATS 1 KEY

- TIME REQUIRED: 8.00
- ********
- BACK TO ABORT
The key in the ignition is now programmed as the master key.
A minimum of 3 keys are required to finish the programming sequence.

To program in the additional keys, insert each key and cycle the key in the ignition from OFF to ON and then back to OFF. Then remove. Repeat for second key.

After 2 minutes try starting with both keys.
KEY PROGRAMMING

VEHICLE SELECTION
+ FORD
+ GM (USA)
+ GM / OPEL
+ HONDA / ACURA
+ HYUNDAI
+ INFINITI

THE FOLLOWING PROCEDURE SHOWS ‘BY VEHICLE’ SELECTION. IF ‘BY SYSTEM’ IS CHOSEN THEN THE SYSTEM TYPE WHERE KNOWN IS SHOWN IN THE APPLICATION PAGES

DIAGNOSTIC MENU
CLEAR / ERASE PATS
KEYS PROGRAMMED

CLEAR / ERASE PATS
CLEAR TIME:  8.00

THE TESTER WILL NOW CLEAR THE SYSTEM WHICH WILL TAKE APPROX 8 MINUTES, FOLLOWED BY APPROX 15 MINS TO CLEAR THE DSM MODULE.

CLEAR PATS 2 DSM
TIME REQUIRED    15:00
******
BACK TO ABORT

CLEAR PATS 2 KEY
TIME REQUIRED  8:00
******
BACK TO ABORT

ECU IDENTIFICATION
PATS 2 DIESEL

PRESS ENTER KEY

PRESS ENTER KEY

SPECIAL FUNCTIONS

PRESS ENTER KEY

PRESS ENTER KEY

DIAGNOSTIC MENU
CLEAR / ERASE PATS
KEYS PROGRAMMED

SPECIAL FUNCTIONS

PRESS ENTER KEY

FAST CODES

PRESS ENTER KEY

ECU IDENTIFICATION
PATS 2 DIESEL

PRESS ENTER KEY

PRESS ENTER KEY

SWITCH IGNITION ON

PRESS ENTER KEY

SWITCH IGNITION OFF

PRESS ENTER KEY

KEYS PROGRAMMED

PRESS ENTER KEY

KEYS PROGRAMMED  2

PRESS ENTER KEY

VEHICLE SELECTION
+ AUS
+ EURO
+ USA
+ S. AMERICA

VEHICLE SELECTION
+ BY VEHICLE
+ BY SYSTEM

VEHICLE SELECTION
+ C MAX
COUGAR
ESCAPE
+ ESCORT/ORION
+ EXPOLRER
+ FAIRLANE

VEHICLE SELECTION
+ PETROL
+ DIESEL

93 > 97
97 > 01
The key in the ignition is now programmed as the master key. A minimum of 3 keys are required to finish the programming sequence.

To program in the additional keys, insert each key and cycle the key in the ignition from OFF to ON and then back to OFF. Then remove. Repeat for second key.

After 2 minutes try starting with both keys.
PATS GALAXY (Diesel)

Key Programming

Some Ford Galaxys require you to turn ignition on and let immobiliser LED stop flashing, then connect tester. A minimum of 2 keys is required.

Vehicle Selection
- Ford
- GM (USA)
- GM / Opel
- Honda / Acura
- Hyundai
- Infiniti

Vehicle Selection
- Ford
- GM (USA)
- GM / Opel
- Honda / Acura
- Hyundai
- Infiniti

Vehicle Selection
- By Vehicle
- By System

Vehicle Selection
- Key Programming
- PatS Galaxy
- Petrol
- Diesel

Vehicle Selection
- By Vehicle
- By System

Vehicle Selection
- Focus
- Galaxy
- Fusion
- Granada / Scorpio
- Ka
- Ltd

Clear Key - Galaxy
Min Keys Required: 2

Press Enter Key

The following procedure shows 'By Vehicle' selection. If 'By System' is chosen then the system type where known is shown in the Application Pages.

Switch Ignition On

Press Enter Key

Ecu Identification
7 MQ65325TAB V41 V
V BC 2 3
K

Press Enter Key

Diagnostic Menu
Ecu Identification
Fault Codes
> Special Functions

Press Enter Key

Diagnostic Menu
Program Keys

Press Enter Key

Clear Key - Galaxy
Keys Programmed: 0
Total Keys Req'd:

1 2 3 4 5 6 7 8 9 0

Clear Key - Galaxy
Keys Required: 2

Press Enter Key

Some Ford Galaxys require you to turn ignition on and let immobiliser LED stop flashing, then connect tester. A minimum of 2 keys is required.
Please program additional keys.

Press enter key.

The key in the ignition is now programmed.

A minimum of 2 keys are required to finish the programming sequence.

To program in the additional keys, insert each key and cycle the key in the ignition from OFF to ON and then back to OFF. Then remove. Repeat for second key.

After 2 minutes try starting with all keys.
**KEY PROGRAMMING**

**TURN IGNITION ON AND LET IMMOMILISER LED STOP FLASHING. THEN CONNECT TESTER. A MINIMUM OF 2 KEYS IS REQUIRED.**

**VEHICLE SELECTION**

<table>
<thead>
<tr>
<th>+ FORD</th>
<th>+ GM (USA)</th>
<th>+ GM / OPEL</th>
<th>+ HONDA / ACURA</th>
<th>+ HYUNDAI</th>
<th>+ INFINITI</th>
</tr>
</thead>
</table>

| + AUS | + EURO | + USA | + S. AMERICA |

**VEHICLE SELECTION**

| + MONDEO | + PUMA | + RANGER | + S-MAX | + TRANSIT CONNECT | + TRANSIT |

**VEHICLE SELECTION**

| + PETROL | + DIESEL |

**VEHICLE SELECTION**

| + MANUAL | + AUTOMATIC |

**DIAGNOSTIC MENU**

<table>
<thead>
<tr>
<th>CLEAR / ERASE PATS</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEYS PROGRAMMED</td>
</tr>
<tr>
<td>ADD KEY</td>
</tr>
</tbody>
</table>

**DIAGNOSTIC MENU**

| MIN KEYS REQUIRED: 2 |
| TIMED ACCESS |
| CLEAR TIME: 10:00 |
| KEYS PROGRAMMED: 2 |

**DIAGNOSTIC MENU**

| CLEAR PATS 3 KEY |
| GAINING ACCESS |
| TIME REQUIRED: 10:00 |
| ***** |
| ACCESS STATUS IN PROGRESS |
| BACK TO ABORT |

**ECU IDENTIFICATION**

| PATS 3 SCP |

**DIAGNOSTIC MENU**

| ECU IDENTIFICATION |
| FAULT CODES |
| ACTUATORS |
| > SPECIAL FUNCTIONS |

**DIAGNOSTIC MENU**

| CLEAR / ERASE PATS |
| KEYS PROGRAMMED |
| ADD KEY |

**DIAGNOSTIC MENU**

| PROGRAM KEYS |
| DISCONNECT TESTER FROM VEHICLE |
| CYCLE KEYS TO PROGRAM |

The tester will now start to clear the PATS system from memory.

**NOTE**: If ACCESS STATUS IN PROGRESS is not displayed this indicates the incorrect system has been selected.

**DIAGNOSTIC MENU**

| PROGRAM KEYS |
| DISCONNECT TESTER FROM VEHICLE |
| CYCLE KEYS TO PROGRAM |

**DIAGNOSTIC MENU**

| PROGRAM KEYS |
| DISCONNECT TESTER FROM VEHICLE |
| CYCLE KEYS TO PROGRAM |

**DIAGNOSTIC MENU**

| PROGRAM KEYS |
| DISCONNECT TESTER FROM VEHICLE |
| CYCLE KEYS TO PROGRAM |

After clearing, cycle the key in the ignition from ON to OFF and then back to ON. Then remove. Repeat for second key.

After 2 minutes try starting with both keys.
Check the anti-theft warning light for each key. It should turn on for 2 seconds and then go off with each key.

Rapid flashing means either the key is faulty or un-programmed.

NOTES:
1. If an error is made, leave the ign on for 20 sec & insert both keys and turn ign ON. Then try starting again.
2. If the diagnostic session is called before other systems are allowed to settle, the counter will show 0.00 and access denied or coded access.

Using the ADD KEY function is the same as CLEAR / ERASE except it only programs the key in the ignition.

NOTES:
1. This function is not available on every vehicle eg Fleet vehicles
SPECIAL FUNCTIONS

PATS 3 SCP (CODED)

KEY PROGRAMMING

TURN IGNITION ON AND LET IMMOBILISER LED STOP FLASHING THEN CONNECT TESTER. A MINIMUM OF 2 KEYS IS REQUIRED.

VEHICLE SELECTION
- FORD
- GM (USA)
- GM / OPEL
- HONDA / ACURA
- HYUNDAI
- INFINITI

ECU IDENTIFICATION
PATS 3 SCP

MIN KEYS REQUIRED: 2
CODED ACCESS

ACCESS GRANTED

DIAGNOSTIC MENU
CLEAR / ERASE PATS
KEYS PROGRAMMED
ADD KEY

MIN KEYS REQUIRED: 2
CODED ACCESS
KEYS PROGRAMMED: 2

ACCESS GRANTED

PROGRAM KEYS
DISCONNECT TESTER FROM VEHICLE
CYCLE KEYS TO PROGRAM

KEY PROGRAMMED 2

CYCLE A MIN OF 2 KEYS.
SPECIAL FUNCTIONS

PATS 3 SCP (CODED)

ADD KEY

DIAGNOSTIC MENU
ECU IDENTIFICATION
FAULT CODES
ACTUATORS
> SPECIAL FUNCTIONS

PRESS ENTER KEY

DIAGNOSTIC MENU
CLEAR / ERASE PATS
KEYS PROGRAMMED
ADD KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

KEYS PROGRAMMED: 2

PRESS ENTER KEY

ACCESS GRANTED

ADD KEY
READING KEY
KEYS PROGRAMMED: 2
BACK TO EXIT
ENTER TO PROGRAM
NEXT KEY

THE KEY IN THE IGNITION GETS ADDED.
IF MORE KEYS ARE REQUIRED THEN REPEAT PROCEDURE.
KEY PROGRAMMING

VEHICLE SELECTION
- FORD
- GM (USA)
- GM / OPEL
- HONDA / ACURA
- HYUNDAI
- INFINITI

ECU IDENTIFICATION
05 FOCUS PATS 3 CAN (P.C.M)

PRESS ENTER KEY

DIAGNOSTIC MENU
ECU IDENTIFICATION
FAULT CODES
ACTUATORS
> SPECIAL FUNCTIONS

ACCESS GRANTED

PROGRAM KEYS
DISCONNECT TESTER FROM VEHICLE
CYCLE KEYS TO PROGRAM

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
KEYS PROGRAMMED
ADD KEY

05 >

YEAR
05 > 04

KEYS PROGRAMMED 2

PRESS ENTER KEY

PROGRAM KEYS
DISCONNECT TESTER FROM VEHICLE
CYCLE KEYS TO PROGRAM

KEY PROGRAMMING

DIAGNOSTIC MENU
ECU IDENTIFICATION
FAULT CODES
ACTUATORS
> SPECIAL FUNCTIONS

ACCESS GRANTED

PROGRAM KEYS
DISCONNECT TESTER FROM VEHICLE
CYCLE KEYS TO PROGRAM

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
KEYS PROGRAMMED
ADD KEY

05 > 04

YEAR
05 >

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
ECU IDENTIFICATION
FAULT CODES
ACTUATORS
> SPECIAL FUNCTIONS

ACCESS GRANTED

PROGRAM KEYS
DISCONNECT TESTER FROM VEHICLE
CYCLE KEYS TO PROGRAM

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
ECU IDENTIFICATION
FAULT CODES
ACTUATORS
> SPECIAL FUNCTIONS

ACCESS GRANTED

PROGRAM KEYS
DISCONNECT TESTER FROM VEHICLE
CYCLE KEYS TO PROGRAM

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY

KEY PROGRAMMING

DIAGNOSTIC MENU
CLEAR / ERASE PATS
ADD KEY

KEYS PROGRAMMED

KEYS PROGRAMMED 2

PRESS ENTER KEY

MIN KEYS REQUIRED: 2
CODED ACCESS

SWITCH IGNITION ON

PRESS ENTER KEY
**KEY PROGRAMMING**

- Remote is programmed at the same time as the key.
- Min 2 keys must be programmed.

**Vehicle Selection**

- Ford
- GM (USA)
- GM / Opel
- Honda / Acura
- Hyundai
- Infiniti

**ECU Identification**

- Pat's 3 Can (P.C.M)

**Diagnosis Menu**

- Clear / Erase Pat's
- ECU Identification
- Special Functions

**Diagnostic Menu**

- Clear / Erase Pat's
- Add Key
- Keys Programmed

**Add Key**

- Keys programmed: 1
- Back to exit
- Enter to program
- Next key

**Vehicle Selection**

- AUS
- EU
- USA
- S. America

- Mondeo
- Puma
- Ranger
- S-MAX
- Transit Connect
- Transit

- Petrol
- Diesel
- Dura-Torque
- Epic

**Vehicle Selection**

- 94 / 95
- 95 / 96
- 97 / 98
- 98 > 06
- 07 >

- 2007 Coded Transit
2007 CODED TRANSIT

KEY PROGRAMMING

ADD KEY

REMOVE KEY FROM IGN
INSERT NEXT KEY
SWITCH IGNITION ON
PRESS ENTER KEY

ADD KEY

KEYS PROGRAMMED: 2
BACK TO EXIT
ENTER TO PROGRAM
NEXT KEY

REMOVE KEY FROM IGNITION AND INSERT NEXT KEY TO BE PROGRAMMED. OR ENTER TO FINISH

ADD KEY

PROCEDURE COMPLETE
PRESS ENTER KEY
FINISHED
# Special Functions

## 2007 Coded Fiesta

### Key Programming

Remote is programmed at the same time as the key. Min 2 keys must be programmed.

#### Vehicle Selection

- **Ford**
- **GM (USA)**
- **GM / OPEL**
- **Honda / Acura**
- **Hyundai**
- **Infiniti**

#### ECU Identification

- **PATS 3 CAN (P.C.M)**

#### Diagnostic Menu

- **Clear Keys**
- **Program Keys**

### Keys Programmed

- **Keys Programmed 2**
- **Key Status: Prog**

#### Vehicle Selection

- **AUS**
- **EURO**
- **USA**
- **S. America**

#### Important

Once the correct code has been accepted do not disconnect tester. Press enter and select program keys function to program key(s).

### Version: 2.4 JULY 2010

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KEY PROGRAMMING

IMMOBILISER WARNING LIGHT WILL FLASH TO INDICATE AN UNPROGRAMMED KEY IS IN THE IGNITION.

DIAGNOSTIC MENU
CLEAR KEYS
PROGRAM KEYS
KEYS PROGRAMMED

IMPORTANT
IF YOU WANT TO PROGRAM MORE KEYS DO NOT DISCONNECT TESTER. PRESS ENTER AND SELECT PROGRAM KEYS FUNCTION TO PROGRAM ADDITIONAL KEY(S) REPEAT FOR ALL KEYS

FINISHED

CYCLE THE IGNITION WITH THE KEY.

KEYS PROGRAMMED
KEYS PROGRAMMED

KEYS PROGRAMMED
KEYS PROGRAMMED

ADDITIONAL KEYS
ADDITIONAL KEYS
ADDITIONAL KEYS

IGNITION ON
PRESS ENTER KEY
INSERT KEY TO PROGRAM
IGNITION ON
PRESS ENTER KEY
SUCCESS
CYCLE IGNITION TO PROGRAM
PRESS ENTER KEY
**SPECIAL FUNCTIONS**

**CODED PROXIMITY**

**KEY PROGRAMMING**

Remote is programmed at the same time as the proximity fob. Min 2 keys must be programmed.

**VEHICLE SELECTION**

- + FORD
- + GM (USA)
- + GM / OPEL
- + HONDA / ACURA
- + HYUNDAI
- + INFINITI

**VehicLe SELECTION**

- + AUS
- + EURO
- + USA
- + S. AMERICA

**ADDINg KEYS**

Ensure key is in cabin when switching ignition on.

**LOST KEYS**

Press the ignition button once only. This will allow the tester to communicate. No visible indication shows the ignition is on.

**KEYS PROGAMMED**

Keys programed: 2
Prog keys in cabin: 0

Press enter key

**D IAGNOSTIC MENU**

Clear / Program Keys
Additional Keys
Keys programmed

Press enter key

**CLEAR KEYS**

Warning
All keys will be cleared
Continue

Continuous

Press enter key

**KEYS PROGRAMMED**

Keys programed: 2
Prog keys in cabin: 0

Press enter key

**ECU IDENTIFICATION**

PATS PROX CAN

Press enter key

**DIAGNOSTIC MENU**

Clear / Program Keys
Additional Keys
Keys programmed

Press enter key

**CLEAR KEYS**

Ignition off

Press enter key

**ADDINg KEYS**

Ensure key is in cabin when switching ignition off.

**LOST KEYS**

Press the ignition button once only. No visible indication shows the ignition is off.

**KEYS PROGRAMMED**

Keys programed: 2
Prog keys in cabin: 0

Press enter key

**DIAGNOSTIC MENU**

Clear / Program Keys
Additional Keys
Keys programmed

Press enter key

**CLEAR KEYS**

Ignition off

Press enter key
OLED PROXIMITY

KEY PROGRAMMING

ACCESS GRANTED

CLEAR KEYS

ACCESS GRANTED

CLEAR KEYS

SUCCESS

PRESS ENTER KEY

PROGRAM KEYS

2 KEYS REQUIRED

PRESS ENTER KEY

PROGRAM PROX FOB

WHEN PROMPTED PRESS
UNLOCK FOR 15 SEC
ON PROX FOB 1

PRESS ENTER KEY

PROGRAM PROX FOB

PRESS UNLOCK
FOR 15 SEC
ON PROX FOB 2

PRESS ENTER KEY

PROGRAM PROX FOB

PROX FOB 1
SUCCESS

PRESS ENTER KEY

PROGRAM PROX FOB

THE PROX FOB MUST BE INSIDE
THE VEHICLE CABIN WHILST BEING
PRESSED.

PROGRAM PROX FOB

PRESS UNLOCK
FOR 15 SEC

PRESS ENTER KEY

PROGRAM PROX FOB

PROX FOB 2
SUCCESS

PRESS ENTER KEY

PROGRAM PROX FOB

PLACE PROX FOB IN
EMERGENCY KEY SLOT

PRESS ENTER KEY

PROGRAM PROX FOB

PLACE PROX FOB 2 IN
EMERGENCY KEY SLOT

PRESS ENTER KEY

PROGRAM TRANSPONDER

TRANSPOUNDER 1
SUCCESS

PRESS ENTER KEY

PROGRAM TRANSPONDER

REMOVE BLANKING INSERT FROM
KEY SLOT ON THE STEERING
COLUMN.

PRESS ENTER KEY

PROGRAM TRANSPONDER

TRANSPOUNDER 2
SUCCESS

PRESS ENTER KEY

PROGRAM TRANSPONDER

REMOVE PROX FOB FROM
EMERGENCY KEY SLOT

PRESS ENTER KEY

PROGRAM TRANSPONDER

PLACE PROX FOB 2 IN
EMERGENCY KEY SLOT

PRESS ENTER KEY

PROGRAM TRANSPONDER

PRESS ENTER KEY

PROGRAM TRANSPONDER

PRESS ENTER KEY
KEY PROGRAMMING

PROGRAM TRANSPONDER

REMOVE PROX FOB FROM EMERGENCY KEY SLOT

PRESS ENTER KEY

PROGRAM KEYS

2 KEYS PROGRAMMED
DO YOU WANT TO PROG ADDITIONAL KEYS

× ✔

IF ANOTHER KEY Requires PROGRAMMING THE PROCESS WILL BE REPEATED.

FINISHED
**KEY PROGRAMMING**

REMOTE IS PROGRAMMED AT THE SAME TIME AS THE PROXIMITY FOB. MIN 2 KEYS MUST BE PROGRAMMED

**VEHICLE SELECTION**
- **FORD**
- **GM (USA)**
- **GM / OPEL**
- **HONDA / ACURA**
- **HYUNDAI**
- **INFINITI**

**VEHICLE SELECTION**
- **AUS**
- **EURO**
- **USA**
- **S. AMERICA**

**VEHICLE SELECTION**
- **MONDEO**
- **PUMA**
- **RANGER**
- **S-MAX**
- **TRANSIT CONNECT**
- **TRANSIT**

**VEHICLE SELECTION**
- **PETROL**
- **DIESEL**

**KEYS PROGRAMMED**

**DIAGNOSTIC MENU**
- **CLEAR / ERASE PATS**
  - KEYS PROGRAMMED
  - ADD KEY

**VEHICLE SELECTION**
- **NON PROXIMITY**
- **PROXIMITY**

**SWITCH IGNITION ON**

**PRESS ENTER KEY**

**ECU IDENTIFICATION**

**PATS NON-PROX CAN**

**PRESS ENTER KEY**

**IMPORTANT**
ONCE THE CORRECT CODE HAS BEEN ACCEPTED DO NOT DISCONNECT TESTER. PRESS ENTER AND SELECT ADD KEY FUNCTION TO NOW PROGRAM A KEY

**DIAGNOSTIC MENU**
- **CLEAR / ERASE PATS**
- **ADD KEY**

**ADD KEY**
- KEYS PROGRAMMED: 1
  - BACK TO EXIT
  - ENTER TO PROGRAM NEXT KEY

**ADD KEY**
- KEYS PROGRAMMED: 2
  - REMOVE KEY FROM IGNITION AND INSERT NEXT KEY TO BE PROGRAMMED.

**ADD KEY**
- KEYS PROGRAMMED: 2
  - BACK TO EXIT
  - ENTER TO PROGRAM NEXT KEY
SPECIAL FUNCTIONS

2007 CODED - NON PROX

KEY PROGRAMMING

ADD KEY

REMOVE KEY FROM IGN
INSERT NEXT KEY
SWITCH IGNITION ON
PRESS ENTER KEY

ADD KEY

KEYS PROGRAMMED: 2
BACK TO EXIT
ENTER TO PROGRAM
NEXT KEY

REMOVE KEY FROM IGNITION AND INSERT NEXT KEY TO BE PROGRAMMED OR ENTER TO FINISH

ADD KEY

PROCEDURE COMPLETE
PRESS ENTER KEY
FINISHED
Once all keys have been programmed press ENTER.

VEHICLE SELECTION

+ FORD
+ GM (USA)
+ GM / OPEL
+ HONDA / ACURA
+ HYUNDAI
+ INFINITI

DIAGNOSTIC MENU

ECU IDENTIFICATION
FAULT CODES
> SPECIAL FUNCTIONS

CLEAR / ERASE PATS
KEYS Programmed

PRESS ENTER KEY

FINISHED

VEHICLE SELECTION

+ AUS
+ EURO
+ USA
+ S. AMERICA

VEHICLE SELECTION

+ AU FALCON
+ BA FALCON
+ BF FALCON

SWITCH IGNITION OFF

PRESS ENTER KEY

CLEAR / ERASE PATS
WAITING TO CLEAR

BACK TO ABORT

CLEAR / ERASE PATS
CODE CLEARED

BACK TO ABORT

PROGRAM KEYS

SWITCH IGN. ON WITHIN 5 SEC
REMOVE KEYS FROM IGN.
INSERT NEXT KEY
REPEAT FOR ALL KEYS

PRESS ENTER KEY

KEYS PROGRAMMED

PRESS ENTER KEY

SWITCH IGNITION OFF

PRESS ENTER KEY

ONCE ALL KEYS HAVE BEEN PROGRAMMED PRESS ENTER.

PROGRAM KEYS

SWITCH IGN. ON WITHIN 5 SEC
REMOVE KEYS FROM IGN.
INSERT NEXT KEY
REPEAT FOR ALL KEYS

PRESS ENTER KEY

FINISHED

ECU IDENTIFICATION

FALCON BEM PATS

PRESS ENTER KEY
The key in the ignition is now programmed.

A minimum of 2 keys are required to finish the programming sequence.

To program in the additional keys, insert each key and cycle the key in the ignition from OFF to ON and then back to OFF. Then remove. Repeat for second key.

After 2 minutes try starting with both keys.

**FINISHED**

- **SPECIAL FUNCTIONS**
  - **KEY PROGRAMMING**
  - **ECU IDENTIFICATION**
  - **FAULT CODES**
  - > **SPECIAL FUNCTIONS**
  - **PRESS ENTER KEY**

- **PROGRAM KEYS**
  - **TIMED ACCESS**
  - **CLEAR TIME 10:00**
  - **PRESS ENTER KEY**

- **CLEAR / ERASE PATS**
  - **GAINING ACCESS**
  - **TIME REQUIRED 10:00**
  - ******
  - **BACK TO ABORT**

- **CLEAR / ERASE PATS**
  - **ACCESS GRANTED**
  - BACK TO ABORT

- **FINISHED**
  - **PROGRAM KEYS**
  - **PROCEDURE COMPLETE**
  - **SWITCH IGNITION OFF**
**SPECIAL FUNCTIONS**

**BA FALCON / SX TERRITORY**

### KEY PROGRAMMING

**TURN IGNITION ON AND LEAVE FOR 30 SECONDS BEFORE CONNECTING THE TESTER.**

A MINIMUM OF 2 KEYS IS REQUIRED.

### VEHICLE SELECTION

- **+ FORD**
- **+ GM (USA)**
- **+ GM / OPEL**
- **+ HONDA / ACURA**
- **+ HYUNDAI**
- **+ INFINITI**

### DIAGNOSTIC MENU

**ECU IDENTIFICATION**

> SPECIAL FUNCTIONS

**PRESS ENTER KEY**

**WHEN PROMPTED WITHIN 10 SEC TURN IGN ON WITH 1ST KEY THEN WITHIN 5 SECONDS INSERT 2ND KEY AND TURN IGNITION ON**

**PRESS BACK WHEN FINISHED**

**TIMED ACCESS**

GAINING ACCESS

TIME REQUIRED 10:00

******

ACCESS STATUS

IN PROGRESS

BACK TO ABORT

**ACCESS GRANTED**

When 10 min. has passed screen will return to diagnostics menu.

Switch ign off.

Door locks will lock

Using same key switch ignition ON, then OFF.

Start vehicle.

**WARNING NOTE**

On the following screen when the ENTER key is pressed the door locks will cycle which is the prompt to cycle the keys through the ignition.

**SWITCH IGNITION OFF**

**PRESS ENTER KEY**

**ECU IDENTIFICATION**

FALCON PATS 3 CAN

**PRESS ENTER KEY**

**SWITCH IGNITION ON**

**PRESS ENTER KEY**
SPECIAL FUNCTIONS

BF FALCON / SY TERRITORY

KEY PROGRAMMING

TURN IGNITION ON AND LEAVE FOR 30 SECONDS BEFORE CONNECTING THE TESTER.
A MINIMUM OF 2 KEYS IS REQUIRED.

VEHICLE SELECTION
+ FORD
  + GM (USA)
  + GM / OPEL
  + HONDA / ACURA
  + HYUNDAI
  + INFINITI

VEHICLE SELECTION
+ AUS
+ EURO
+ USA
+ S. AMERICA

VEHICLE SELECTION
+ AU FALCON
+ BA FALCON
+ BF FALCON

DIAGNOSTIC MENU
ECU IDENTIFICATION
> SPECIAL FUNCTIONS
PRESS ENTER KEY

DIAGNOSTIC MENU
CLEAR/ ERASE PATS
PARAMETER RESET
PRESS ENTER KEY

CLEAR / ERASE PATS
MIN 2 KEYS REQUIRED
CONTINUE
YES = ENTER  NO = BACK

CLEAR / ERASE PATS
ACCESS GRANTED
PRESS ENTER KEY

CLEAR / ERASE PATS
SWITCH IGN OFF
DO NOT REMOVE KEY
ENSURE ALL DOORS ARE CLOSED
PRESS ENTER KEY

ECU IDENTIFICATION
BF FALCON PATS 3 CAN
PRESS ENTER KEY

SWITCH IGNITION ON
PRESS ENTER KEY

TURN IGNITION ON AND LEAVE FOR 30 SECONDS BEFORE CONNECTING THE TESTER.
A MINIMUM OF 2 KEYS IS REQUIRED.
KEY PROGRAMMING

When ENTER pressed door locks will lock

When prompted within 10 sec turn IGN on with 1st key then within 5 seconds insert 2nd key and turn ignition on

Press enter key

Press back when finished

Switch ignition off

Press enter key

Press enter key

Switch ignition on

Press enter key

Disconnect tester and perform parameter reset

Press enter key

TO COMPLETE THE PROGRAMMING PROCEDURE PLEASE DISCONNECT THE TESTER AND RE-START THEN SELECT PARAMETER RESET

Diagnostic menu

Clear/erase Pats

Parameter reset

Press enter key

Access granted

Locks should cycle if parameter reset successful

Press enter key

Switch ignition off

Press enter key

Switch ignition on

Press enter key

connected tester to complete the parameter procedure please disconnect the tester and re-start. then select parameter reset
The Ford VIN checker is used to determine the production date of the vehicle.

**VEHICLE SELECTION**
- Ford
- GM (USA)
- GM / OPEL
- HONDA / ACURA
- HYUNDAI
- INFINITI

**VEHICLE SELECTION**
- AUS
- EURO
- USA
- S. AMERICA

**VEHICLE SELECTION**
- S-MAX
- TRANSIT CONNECT
- TRANSIT
- WINDSTAR
- FORD BY SYSTEM
- FORD VIN CHECK

**FORD CALCULATOR**
Enter last 7 digits of VIN number:

1 2 3 4 5
6 7 8 9 0

**FORD CALCULATOR**
WM60543

**PRODUCTION DATE**
JUL 98

**PRESS ENTER KEY**

**FORD CALCULATOR**
Check another VIN

**YES = ENTER**
**NO = BACK**
GENERAL

If communication is made with the vehicle, and then no communication is experienced later or the communication is random, check battery voltage and ensure it is at least 12.2 volts., particularly important on SCP, and all Transits.

A new function has been introduced on the WDS which enables the dealer to disable the additional key function. This is mainly used on fleet vehicles and hire companies to stop unauthorized key’s being added. If a system will not accept additional keys, it may be because this has been enabled.

Fleet mode (unable to add a key) is disabled by clearing the PATS and DSM (diesel only) and reprogramming all keys.

When programming SCP systems, turn IGN ON before connecting TESTER or ADC110B to Diagnostic socket, then wait for dashboard lights to settle, connect TESTER - otherwise a timed access system may display “access denied”.

Intermittent start with fault code 12- replace faulty aerial pick up.

If an incorrect key is used to try and start the engine, the correct key must be inserted and left in the IGN position for at least 20 seconds, then switched OFF then back ON before the vehicle starts.

Fault Code 0 is an ECU trouble code, if this is set and cannot be cleared, then there is a problem with the ECU. Normally the only way to fix this is to return the ECU for testing or replace it.

Fault Code 1000 is an ECU trouble code. This code can be set automatically if the vehicle has not been driven. The code refers to the OBD drive cycle. In some instances it is not possible to program new keys if this code is set. Please follow the following instructions if the code cannot be cleared or the keys cannot be programmed.

The OBD drive cycle code P1000 is the monitor code which monitors a number of the OBD parameters. This code can be cleared by driving the vehicle or running the engine for around 5 minutes at a steady RPM and acceleration cycles. The smoother the driving condition the quicker the code will be cleared.

If no keys are available, then the ECU can be disconnected for 30-45 minutes, which will also reset the system.

SELF DIAGNOSIS

The PATS system has it’s own self diagnosis test procedure which flashes codes. The PATS LED will flash quickly for 1 minute, and then start flashing the fault code as follows:-

Example Flash code for Fault Code 31

Code 11 Transceiver not connected
Code 12 Transceiver
Code 13 No key data received
Code 14 Part of the transponder code received
Code 15 Wrong transponder key
Code 21 Less than the minimum keys required programmed
Code 22 Failed diesel pump control unit identification
Code 23 The response code between pump control unit & powertrain
Code 31 DSM Communication
Code 32 DSM Communication
Code 34 DSM Communication

LED = Always ON or OFF - Check the fuse 15 (5 amp)

NOTE: If there are no fault codes, DO NOT clear fault codes as this can cause fault 1000 to be enabled.

Ford Escort, no communication with TESTER, switched Ignition OFF and ON very quickly, and communication gained. Conclusion was bad connection on Ignition switch.

DO NOT insert a blue chip transponder key into a red key system.
**KEY PROGRAMMING < 98 ¼ MY**

**NOTE**
- a. Clear ALL Fault codes before programming.
- b. The Immobiliser receiver does not need reprogramming when replaced.
- c. Up to 16 keys can be programmed into the PATS system.

A new master key can only be programmed using the FDS2000 or the AD PROGRAMMING systems. Further slaves can be added without any specialist equipment as follows:

1. Insert master key, and turn to Position 2. PATS LED should illuminate.
2. Switch ignition from position 2 to position 0, and remove key. PATS LED will illuminate for 2 seconds. PATS system is now in programming mode for 10 seconds.
3. Insert the new slave key, and turn from Position 0 to Position 2. PATS LED will flash once if successful.
4. Repeat for all new slave keys.

**KEY PROGRAMMING > 98 ¼ MY >**

**NOTE**
- a. Clear ALL Fault codes before programming.
- b. Up to 8 keys can be programmed into the PATS system.
- c. If programming is unsuccessful, the PATS LED will flash when the key is inserted.
- d. Newer systems are only supplied with 2 keys. Both keys are required to program further slave keys.
- e. Master keys can only be programmed using the 2 PATS keys (A and B) with the FDS2000 or the AD PROGRAMMING SYSTEM system.
- f. In some cases the vehicle doors must be closed to perform the re-programming sequence.

Further slaves can be added without any specialist equipment as follows:

1. Insert key A, and turn to Position 2.
2. Turn back to Position 0, and remove key A.
3. Insert key B, and turn to Position 2.
4. Turn back to Position 0, and remove key B.
5. Insert the new slave key and turn to Position 2.
6. Remove new key. Key is now programmed.
7. Procedure can be repeated after 20 seconds, for up to 8 slave keys.

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**GALAXY**

**MANUAL PROGRAMMING PROCEDURES DO NOT WORK ON ANY FORD GALAXY VEHICLES.**

**PROBE**

**PROGRAMMING NEW/ADDITIONAL KEYS (2 or more keys available)**

1. Using one of the existing keys (This becomes KEY 1), insert into ignition switch.
   **NOTE:** When requested to turn the key ON or OFF, the time should not be less than 1 Second or more than 2 Seconds between operations. Unless stated otherwise.
2. Turn the Key to IGNITION ON and then OFF five times, stopping at the OFF position.
   **NOTE:** PATS LED Should remain ON with the key in the OFF position.
3. Turn the IGNITION ON using KEY 1., within 15 seconds of step 2.
4. Turn the IGNITION OFF and remove KEY 1.
5. Insert KEY 2 within 60 seconds of PATS LED illuminating.
6. Turn ign ON and start engine with KEY 2. PATS LED will extinguish after 1-2 sec and engine remain running if key is accepted.
7. Turn IGNITION OFF and remove KEY 2.
8. Insert KEY 3 within 15 seconds of removing KEY 2.
9. Turn IGNITION ON and start engine with KEY 3. PATS LED will extinguish after 1-2 seconds and engine remain running if key is accepted.
10. Turn IGNITION OFF and remove KEY 3. Repeat as necessary for additional keys.

**PROGRAMMING NEW/ADDITIONAL KEYS (No keys available)**

Programming new key(s) when no keys are available can only be completed by a FORD dealer.
CLEARING/PROGRAMMING PATS 1 & 2 SYSTEM (PETROL)

1. If WAITING TO CLEAR is not displayed this indicates the incorrect system has been selected.
2. If successful the tester will display all keys cleared and how many keys are programmed.

CLEARING PATS SYSTEM (FALCON)

1. Minimum 2 keys required.
2. Ensure all vehicle doors remain closed at all times.

ADD KEY FUNCTION - CERTAIN VEHICLES

1. On some vehicles a function is available to add a key without deleting the old keys. This takes the normal 10 minutes security access time.
2. If the procedure is not followed then a further security access time of 10 minutes will be required.
3. Some vehicles, especially fleets and hire companies have this feature disabled, and the normal clear down procedure will be required.

MANUAL KEY PROGRAMMING (TEXAS 4D CARBON)

1. The MANUAL KEY REGISTRATION is NOT enabled on any vehicles that use the TEXAS 4D Carbon Transponders.

FORD GALAXY TRANSPONDERS

1. The Ford GALAXY uses the following types of transponders:
   - iD 33 Transponder
   - iD 42 Transponder
   - iD 44 Transponder
   - iD 63 Transponder
**RANGER KEY PROGRAMMING PROCEDURES**

**General Procedures**

1. **NOTE:** When an error occurs during the reprogram procedures, except when both the immobilizer unit and PCM are replaced, repeat the procedure from Step 1. If you still cannot reprogram, confirm how many keys can start the engine. Then, perform the key replacement or additional reprogram procedure according to the valid key number.

2. **NOTE:** To make a copy of the key or replace the immobilizer system component parts (the key(s), steering lock, immobilizer unit, and/or PCM), the customer should bring all keys to the dealer. This is because the previously programmed key IDs are erased when reprogramming the key IDs into the immobilizer unit and PCM.

3. **NOTE:** If the customer has only one valid key when replacing the immobilizer system component parts, the dealer should contact a distributor to obtain the code word.

4. **NOTE:** To replace the immobilizer unit or PCM, there should be at least one valid key. Otherwise, both the immobilizer unit and PCM should be replaced.

5. **NOTE:** The immobilizer unit and PCM cannot be changed from one car to another. If an immobilizer unit or PCM is replaced with one from another car, the engine will not start. Reprogramming of the IDs and code word of an immobilizer unit that has already been programmed is not possible.

6. **NOTE:** The immobilizer unit and PCM should not be newly replaced as a trial during troubleshooting. If this is done, the ID and code word will be programmed into the new unit and it cannot be used for other cars even if you find that the old unit was normal.

7. **NOTE:** The immobilizer system cannot be deactivated.

8. **NOTE:** Confirm that all keys registered can start the engine after the reprogram procedure. When confirming, wait for more than 5 seconds before inserting the next key.

9. **NOTE:** When the customer does not need to register more than two keys, the following procedures can be stopped after registering two keys.

10. **NOTE:** If the key cannot be registered in spite of the fact that the immobilizer system operates normally, there may be a malfunction with the key reminder switch or wiring harness.

11. **NOTE:** If no specific time interval is given, each step should be performed within 30 seconds of the previous step.

12. **NOTE:** If programming keys, the driver door must be open.

**Key Replacement or Addition when the customer has two or more valid keys**

1. **NOTE:** Key Replacement or Addition When the customer has two or more valid keys
2. Cut new transponder-equipped key(s).
3. Insert key 1 into the steering lock and hold for 1 second or more.
4. Remove and insert key 1 five times at no more than 1-second intervals.
5. After the final key insertion, verify that the security light flashes.
6. Remove the key from the steering lock and verify that the security light goes off.
7. Insert key 2 into the steering lock and turn the key to the ON position.
8. Verify that the security light illuminates for 1—2 seconds.
9. After verifying that the security light goes off, turn the key to the LOCK position and remove from the steering lock.
10. Insert key 3 into the steering lock and turn the key to the ON position.
11. Verify that the security light illuminates for 1—2 seconds.
12. After verifying that the security light goes off, turn the key to the LOCK position.
13. If there are 4—8 keys (valid and/or new keys), repeat Step 5 with each key.
14. Wait for 30 seconds.
15. After reprogramming, clear DTCs stored in the PCM.
RANGER KEY PROGRAMMING PROCEDURES

Key Replacement or Addition when the customer has only one or no valid key (code word is required)

1. NOTE: If no specific time interval is given, each step should be performed within 30 seconds of the previous step.
2. Remove and insert key 1 five times at no more than 1-second intervals.
3. After the final key insertion, verify that the security light flashes. (300 ms ON—300 ms OFF)
4. Wait for 5 minutes until the security light flashes at 1.2-second intervals.
5. Input the code word. For additional information, refer to Code Word Input Procedure in this procedure.
6. After verifying that the security light has switched from flashing to straight illumination, turn the key to the ON position.
7. After verifying that the security light goes off, turn the key to the LOCK position and remove from the steering lock.
8. Insert key 2 into the steering lock and turn the key to the ON position.
9. Verify that the security light illuminates for 1—2 seconds.
10. After verifying that the security light goes off, turn the key to the LOCK position and remove from the steering lock.
11. Insert key 3 into the steering lock and turn the key to the ON position.
12. Verify that the security light illuminates for 1—2 seconds.
13. After verifying that the security light goes off, turn the key to the LOCK position.
14. If there are 4—8 keys (valid and/or new keys), repeat Step 5 with each key.
15. Wait for 30 seconds.
16. After reprogramming, clear DTCs stored in the PCM.
**Remote Programming**

**Fiesta 96> & Escort 98> (Radio 3 Button)**

Procedure
1. Insert Key and turn to II, then Turn Key from II to I and back to II four times within 3 seconds.
2. The PATS LED should light. Turn Key to Position 0.
3. Press the Unlock button and keep it pressed until the PATS LED flashes 4 times.
4. Add additional fobs the same way. Turn to II and back to 0 to end.

**Focus (Radio 3 Button)**

Procedure
1. Switch Ignition On/Off (II/0) 4 times within 6 seconds until a sound is made.
2. Press any button on Remote until a sound is made.
3. To program additional Remotes, repeat after 2 seconds after the sound.
4. Turn Ignition On/Off to exit.
5. A maximum of 4 remotes can be programmed.

**Mondeo 96> Scorpio > 98 (Radio 2 Button)**

Procedure
1. Turn Ignition to II, then turn ignition from II to I and back 4 times within 3 seconds.
2. The PATS LED on dash should light.
3. Turn Ign to 0. Then press Unlock button and keep pressed until PATS LED flashes 4 times (new fob first, then old).
4. Turn Ignition to II, then back to 0 to end.

**Transit (2000.5MY)**

Procedure
1. Close all the doors.
2. Turn Ignition key from position 0 to II eight times within 10 seconds.
3. Make sure the vehicle locks and unlocks the doors.
4. Press the remote transmitter button within 20 seconds, and make sure the vehicle locks and unlocks all the doors.
5. Up to 20 seconds is allowed to programme the next remote transmitter.
6. To programme additional remote transmitters, repeat steps 4 and 5.
7. Turn the ignition key to position 0 to exit the programming mode.

Note: Maximum 4 remote transmitters may be programmed.
Note: Ensure the vehicle battery is fully charged and the anti-theft alarm system is not armed or triggered.

Note: If programming ends with no new remote transmitters, the originals are retained.

Note: The anti-theft alarm and double locking module will exit programming mode automatically if four new remote transmitters have been programmed or if no new remote transmitters programmed within the 20 second programming mode.

**Fiesta 96, Puma (Infrared 2 Button)**

Procedure
1. Turn Ignition switch to Position I and back to 0 as soon as the PATS LED in the clock lights (The system is now ready for programming, to a maximum time limit of 30 seconds).
2. Remove Key from Ignition, hold the FOB towards the Interior Light, and press and hold the Single Arrow Wait until the light on the Key flashes, then press the Double Arrow 3 times., release the Single Button
3. Both LEDs (Key & Clock) should flash to acknowledge programming is successful
4. To exit learn Mode, turn Ignition to II and then 0
5. A Maximum of 4 Remotes are possible
REMOTE PROGRAMMING

Mondeo 93> Mondeo 96> (Infrared 2 Button)

Procedure
1. Unlock Vehicle, and turn ignition to position 1.
2. Wait until the PATS LED illuminates (approx 10 seconds)
3. Switch Ignition to 0 – within 5 seconds – LED will remain on
4. Point the Remote at one of the front Receivers
5. Press a button and keep pressed – within 20 seconds of step 3
6. When the LED on the Key lights press the other button 3-5 times
7. Release both buttons while still aiming at the receiver
8. If successful, both LED’s will flash 5 times
9. Repeat 5—9 for additional transmitters (within 30 seconds)
10. When completed, Turn Ignition to II then 0 to store the Keys

Mondeo 98½> Scorpio 95> (Radio 3 Button)

Procedure
1. Turn Ignition 4 times from 0 to I, ending at position I. A tone should sound.
2. Press the Remote Unlock button – another tone should sound.
3. Additional Remotes can be added by repeating Step 2, within ten seconds of each remote.
4. To exit turn Ignition to 0 – another audible sound should be made.

Scorpio 95> (Radio 3 Button)

1. Turn Ignition 4 times from 0 to I, ending at position I. An audible tone should be heard.
2. Press the Remote Unlock button – there should be another audible tone
3. If more than one Remote then Step 2 should be repeated for each remote in turn, within ten seconds of each other.
4. To End turn Ignition to 0 – there should be another audible tone.

Galaxy (Radio 2 button)

1. Make sure all doors and windows are closed.
2. Turn the key in the drivers door lock, 3 times to the unlock position for at least half a second and within a total of 5 seconds.
3. The system should now enter programming mode, this is shown by the LED illuminating continuously for the next 15 secs during which the key should be programmed as follows.
4. Press one of the buttons on the key and whilst holding it pressed, simultaneously press the other button 3 times.
5. Release both buttons.
6. The key should now flash 5 times and the LED in the door should also flash, six times.
REMOTE PROGRAMMING

Additional Information

A maximum of four keyless entry remote transmitters can be programmed to the central security module (CSM). Programming must be done at the same time for all the transmitters.

Note: To enter programming mode, make sure that the vehicle battery is fully charged and the anti-theft system is not armed or triggered (if equipped).

1. Close all doors and fasten the safety belts to make sure conflicting chimes do not sound during programming.
2. Turn the ignition switch from position I to position II at least four times in six seconds.
3. Turn the ignition switch to position I.
4. The CSM is now in the learning mode.
5. Press and hold one of the buttons on the remote transmitter until a chime sounds. This indicates a new transmitter code has successfully received.
6. After each successful programming is completed, another 10 second learning mode is automatically entered, up to a maximum of four times.
7. To program additional transmitters, repeat from step 5.
8. The system will leave the learning mode after the ignition switch is turned to position III, or if no new transmitter is programmed during the 10 seconds, or if four remote transmitters have been programmed.
9. After successful programming, only the new programmed transmitters will be accepted.
10. Test all the programmed transmitters, by activating and deactivating the locking/unlocking functions.

Focus Built from 12.2000 Onwards

Note: The ignition must be turned off before attempting to reprogram the key fob.

1. The unlocking mode can be changed by pressing the locking and unlocking buttons on the remote transmitter simultaneously for a minimum of four seconds.
2. The change is indicated by the turn signal lamps flashing twice.
3. The mode can be carried out as often as required by repeating step 11.

Mondeo 2001 onwards

Note: The ignition must be turned off before attempting to reprogram the key fob.

1. The unlocking mode can be changed by pressing the locking and unlocking buttons on the remote transmitter simultaneously for a minimum of four seconds.
2. The change is indicated by the turn signal lamps flashing twice.
3. The mode can be carried out as often as required by repeating step 14.

Programming transmitters.

1. Insert the ignition key and turn it from position II to position 0 and back four times within three seconds.
2. Remove the ignition key. The module remains in learning mode for 20 seconds and the anti-theft warning system light stays on continuously.
3. Press any button on the remote transmitter being programmed. When the signal from the remote transmitter is accepted by the module, the LED will flash.
4. Wait until the module programming is complete, or switch the ignition to ON.

Notes:
- A maximum of four keyless entry remote transmitters can be programmed to the central security module.
- Programming must be done at the same time for all the transmitters.
- To enter programming mode, make sure that the vehicle battery is fully charged and the anti-theft system is not armed or triggered (if equipped).
- Close all doors and fasten the safety belts to make sure conflicting chimes do not sound during programming.

5. Turn the ignition switch from the OFF position to the ON position four times within three seconds to enter the learning mode. Turn the ignition switch from the OFF position. The central security module will remain in the learning mode for 20 seconds indicated by the LED in the instrument panel being illuminated continuously.
6. Press any button on the remote transmitter being programmed. When the signal from the remote transmitter is accepted by the central security module, the LED will flash.
7. To program additional transmitters, repeat from step 6, with a two second delay after the LED flashes.
8. To exit the learning mode, turn the ignition switch to the ON position. If no transmitter signal is received by the central security module for 20 seconds, the system will automatically exit the learning mode.
9. Test all the programmed transmitters, by activating and deactivating the locking functions.
REMOTE PROGRAMMING

Transit 2007 >

The remote part of the key is programmed when the keys are programmed.

An example key is pictured below, the remote part of the key is BLUE in colour to distinguish it is the new system.