

## Reprogramming the anti-theft alarm system electronic control module remote fob memories

### Remote Setup

The 'Remote Setup' sequence of operations is used to programme the anti-theft alarm system to new or replacement remote fobs.

<b>Warning:</b>
1. The anti-theft alarm system control module has four memories assigned for remote fob recognition.

<b>Warning:</b>
When a replacement fob is provided, the anti-theft alarm system control module must be programmed to recognise the new fob. Otherwise the system will not recognise the new fob when it is used to operate the alarm.

<b>Warning:</b>
At the same time the anti-theft alarm system control module must be programmed not to recognise the fob which is being replaced. Otherwise the fob, which may have been lost or stolen for example, could still be used to access the motor car.

<b>Warning:</b>
The system does not incorporate any method of identifying and accessing an individual memory assigned to recognition of a particular fob.

<b>Warning:</b>
When the anti-theft alarm system control module is programmed to recognise a new fob, it over-writes one of the existing four memories with the identity of the new fob. This could be the memory of a fob which is still valid.

<b>Warning:</b>
When a new or replacement fob is supplied, it is most important, therefore, that the identities of both valid fobs are programmed into the anti-theft alarm system control module memories in the same operation.

<b>Warning:</b>
2. Three different frequencies [303 MHz, 315 MHz, 433.92 MHz] are used for communications between the remote fob and the anti-theft alarm system electronic control module (see page 53). When replacing a remote fob it is important to ensure that a fob with the correct frequency is used.

To programme the anti-theft alarm system to recognise a replacement fob, carry out the following sequence of operations:

- 1.) Insert the ignition key into the ignition lock and turn it to the 'RUN' position so that the anti-theft alarm and immobilising systems are deactivated.
- 2.) Connect Mastercheck, and the printer if required, to the vehicle diagnostic socket in the lower fascia stowage compartment. It is not necessary to connect the analogue interface unit.
- 3.) Insert the anti-theft alarm system card.
- 4.) Press the 'F2' key. The screen will show the anti-theft alarm system 'launch' screen which confirms the identity of the inserted Mastercheck card and its part number.

ROLLS-ROYCE VEHICLE SECURITY 1
RH13958

The screen will then automatically change to the 'Main Menu' screen. A diamond (#) sign appears beside instruction 1. This is a prompt to the technician to initiate communications between Mastercheck and the anti-theft alarm system control module.

	<b>MAIN MENU</b>
1.	# START COMMS
2.	CLEAR RESULTS
3.	ALARM SETUP

- 5.) Press the 'Diamond' (#) key. The screen will change and indicate that Mastercheck is proceeding to establish a communication link with the motor car's anti-theft system electronic control module.

STARTING COMMUNICATIONS WITH CONTROL MODULE
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As soon as communication has been established the motor car's anti-theft alarm siren will chirp once and the screen display will automatically change to show the last 5 digits of the motor car's VIN number together with the versions of the anti-theft alarm system hardware and software being used.

<b>VIN</b>	<b>59018</b>
HW Ver	1
SW Ver	6
*-MAIN MENU	

- 6.) Press the 'Star' (\*) key. The screen display returns to the main menu.

<b>MAIN MENU</b>
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(OID = <137916\_1\_1\_1> UID = <7572> Dataset = <TSD 6000 06-2008 [English]>)

1.	# START COMMS
2.	CLEAR RESULTS
3.	ALARM SETUP

- 7.) Press the 'F2' key to scroll through the main menu displays until the diamond is adjacent to the '2. Clear Results' sequence.

**Note:**  
If you overshoot, the required screen, pressing the 'F1' key will scroll the screen displays in the opposite direction.

	<b>MAIN MENU</b>
2.	# CLEAR RESULTS
3.	ALARM SETUP
4.	READ INPUTS

- 8.) Press the 'Diamond' (#) key. The display will change to show that the Mastercheck unit is clearing the stored results from its memory and is setting all the screen result messages to the failed mode.

CLEARING STORED RESULTS SET TO FAILED

As soon as the Mastercheck unit has cleared the stored results from its memory, the screen will automatically change to provide an instruction for the operator to continue.

CLEARING STORED RESULTS SET TO FAILED  
\* RETURN

- 9.) Press the 'Star' (\*) key. The display will return to the main menu, ready for selection of an operational sequence.

	<b>MAIN MENU</b>
2.	# CLEAR RESULTS
3.	ALARM SETUP
4.	READ INPUTS

- 10. Press the 'F2' key to advance the main menu display until the diamond is adjacent to instruction '7. Remote Setup'.

**Note:**  
If you overshoot, the required screen, pressing the 'F1' key will scroll the screen displays in the opposite direction.

	<b>MAIN MENU</b>
7.	# REMOTE SETUP
8.	KEY SETUP
9.	MICROWAVE

- 11. Press the 'Diamond'(#) key. The screen will display the Remote set up menu.

REMOTE SETUP \*-RETURN  
HASH-HELP  
#-CONTINUE

- 12. Press the 'Diamond' (#) key to continue. The screen will display the instruction to be ready to programme the remote fob.

Get Ready With Remote \*-MAIN MENU  
#-WHEN READ

- 13. Press the 'Diamond' (#) key. The screen changes. Press and hold the remote button as instructed by the screen. The anti-theft alarm system electronic control module commences programming the fob's identity into one of the memories. While this is happening the word 'Programming' will flash in the bottom line of the display.

Press and Hold Remote Button | Press and Hold Remote Button Programming

- 14. The screen changes to confirm that the fob's identity has been successfully programmed into the memory, immediately the programming operation has been completed. At the same time the siren will chirp twice.

Alarm Module Programmed to remote  
#-CONTINUE

- 15. Press 'Diamond' (#) key to return to the instruction to be ready to programme the remote fob and repeat steps 13, 14 and 15 again for the same fob and then repeat steps 13, 14 and 15 twice for the other fob to ensure all four memories are programmed to valid fobs.

**Warning:**  
If the owner is not able to supply all the fobs for programming, then in the interests of security, programme the available fob four times to ensure that all fob memories are over-written, thereby preventing the possibility of unauthorised access to the motor car. Invite the owner to supply both fobs for reprogramming at the earliest opportunity. Any fobs that the owner has not supplied for reprogramming, will no longer be recognised by the system until it has been reprogrammed to recognise them again.

- 16. If a fob's identity is not successfully programmed into a memory, the screen will advise the failure. In this instance press the diamond key to return to the Remote set up menu and repeat the programming procedure.

Alarm Module Failed to Program

(OID = <137916\_1\_1\_1> UID = <7572> Dataset = <TSD 6000 06-2008 [English]>)

#-CONTINUE

- 17. Press 'Diamond' (#) key to return to the instruction to be ready to programme the remote fob.

Get Ready With Remote \*-MAIN MENU

#-WHEN READ

- 18. When all the remote fob memories have been successfully programmed, press the 'Star' (\*) key to exit the sequence and return to the main menu.

	<b>MAIN MENU</b>
7.	# REMOTE SETUP
8.	KEY SETUP
9.	MICROWAVE

- 19. Press the 'F2' key to advance the main menu display until the diamond is adjacent to instruction '4. Read Inputs'.

**Note:**  
If you overshoot, the required screen, pressing the 'F1' key will scroll the screen displays in the opposite direction.

	<b>MAIN MENU</b>
4.	# READ INPUTS
5.	DRIVE OUTPUTS
6.	ALARM HISTORY

- 20. Press the 'Diamond' (#) key. The screen will display the Read Inputs menu.

	<b>MONITOR INPUT</b>
	*-RETURN
	HASH-HELP
	#-CONTINUE

- 21. Press the 'Diamond' (#) key to continue. The screen will display the first of the read inputs screens, which checks the operation of the locking mode of the front door locks and the boot lock.

. Lock and Arm witches Key ront Doors/Boot  
FAIL

- 22. Press the 'F2' key to scroll through the read inputs test screens to '27. Transmitter remote large button' which checks the operation of the large button on the remote fob.

7. Transmitter emote arge Button  
FAIL

- 23. Press the large button on one of the reprogrammed fobs. The screen should show the word 'Activated' on the bottom line of the screen and, at the same time, the Mastercheck unit should bleep. Repeat the test for all the other reprogrammed fobs.
- 24. If the large button on all the reprogrammed fobs operates to specification, press the 'Hash' key to toggle the test result display to PASS.
- 25. Press the 'F2' key to move to the next of the read inputs test screens, which checks the operation of the small button on the remote fob.

8. Transmitter emote mall Button  
FAIL

- 26. Press the small button on one of the reprogrammed fobs. The screen should show the word 'Activated' on the bottom line of the screen and, at the same time, the Mastercheck unit should bleep. Repeat the test for all the other reprogrammed fobs.
- 27. If the small button on all the reprogrammed fobs operates to specification, press the 'Hash' key to toggle the test result display to PASS.
- 28. Press the 'F2' key to move to the next of the read inputs test screens, which checks the operation of any button on the remote fob.

9. Transmitter emote ny Button  
FAIL

- 29. Press the small button and then the large button on one of the reprogrammed fobs. The screen should show the word 'Activated' on the bottom line of the screen and, at the same time, the Mastercheck unit should bleep as each button is pressed. Repeat the test for all the other reprogrammed fobs.
- 30. If both buttons on all the reprogrammed fobs operate to specification, press the 'Hash' key to toggle the test result display to PASS.
- 31. Press the 'Star' (\*) key to exit the sequence and return to the main menu.

	<b>MAIN MENU</b>
4.	# READ INPUTS
5.	DRIVE OUTPUTS
6.	ALARM HISTORY

- 32. If further Mastercheck operations are to be carried out, for example the Key Set up sequence, press the 'F2' key to scroll

through the main menu displays until the diamond is adjacent to the appropriate instruction and then proceed as directed.

**Note:**

If you overshoot, the required screen, pressing the 'F1' key will scroll the screen displays in the opposite direction.

- 33. If disconnection of Mastercheck is required, press the 'F2' key to scroll through the main menu displays until the diamond is adjacent to the instruction '11. Finish' sequence.

**Note:**

If you overshoot, the required screen, pressing the 'F1' key will scroll the screen displays in the opposite direction.

	<b>MAIN MENU</b>
11	# FINISH
1.	START COMMS
2.	CLEAR RESULTS

- 34. Press the 'Diamond' (#) key. The display will change to show that the Mastercheck unit is ready for disconnection.

**POWER DOWN AND REMOVE PROGRAM CARD**

- 35. Disconnect the Mastercheck plug from the diagnostic test socket in the lower facia stowage compartment.

Four seconds after the plug has been disconnected, the alarm siren will chirp three times to indicate that the system has successfully powered down and normal anti-theft alarm system operation has been resumed.

- 36. Remove the Anti-theft alarm system test card from the Mastercheck test instrument.
- 37. Replace the cover over the test socket in the lower facia stowage compartment.
- 38. Fully operate all functions of the anti-theft alarm system with each individual reprogrammed fob to ensure that the system operates to specification.