Supplementary Rider's Manual

DWA 5 Anti-Theft Alarm System

Note:

Warning:

This symbol indicates precautions and measures which are essential in order to protect the rider and other persons from possibly severe or fatal injury.

BMW recommends Castrol

Welcome to BMW

Congratulations on your purchase of this BMW anti-theft alarm.
It acts as a deterrent for potential thieves, while at the same time being easy and straightforward to use.

Your authorised BMW motorcycle dealer will be glad to assist you in all matters relating to your motorcycle.
We hope you will enjoy familiarising yourself with these instructions for use, and we would like to take this opportunity of sending you our very best wishes.

Yours sincerely,

BMW Motorrad

Contents

i Introduction
Welcome to BMW 1
General 3

1 Overview and operation
Controls 4
Functions of the remote control unit 5
Code card 6

2 Immobiliser
Activation 7
Deactivation 9

3 Alarm function
Activation 10
Activation phases 12
How the alarm is triggered 13
Deactivation 14
Reasons for an alarm 16

4 Central locking system
Manual operation 19
Remote control unit 20
Emergency unlocking 21
Safety shutdown 22

5 Lights
Lights 23

6 Programming
Customising the anti-theft alarm system 24
Default settings 25
Accessing the programming mode 26
Programming 27
Exiting programming mode 28

7 Remote control units
Registering remote control units 29
Exiting registration mode 32
Synchronising the remote control unit 33

8 Care and maintenance
Changing the battery 34

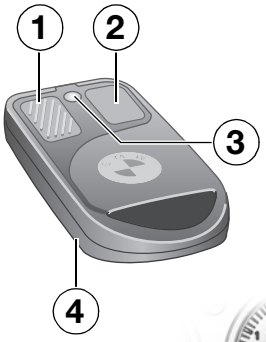
9 Technical data
Technical data 36

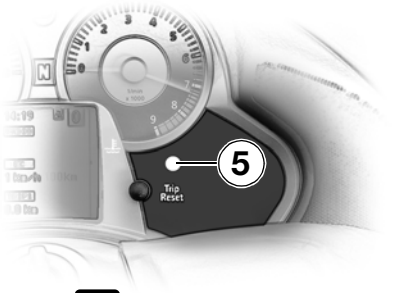
i Index
Index 37

Your anti-theft alarm is combined with a central locking system that enables you to open and close the cases, the topcase, and the radio compartment by remote control.
It also enables you to switch on the map-reading light and the ground lights automatically.
You can customise the anti-theft alarm in certain ways to suit your needs and preferences.

Any attempt to move the motorcycle, change its position, start it without your permission, or disconnect the battery will trigger the alarm. The sensitivity of the system is set in such a way that slight vibrations of the motorcycle will not trigger a false alarm.
Once you have activated the alarm, any attempted theft is indicated acoustically by the siren and visually by all four turn indicators flashing at the same time, and the integrated immobiliser suppresses engine start.

Note:
In order to protect the motorcycle's battery and ensure that the engine can be started, the alarm system deactivates itself automatically a certain number of days after being activated, although it always remains active for at least 7 days.





Note:
Do not be tempted to use the remote control unit to lock the keys inside a stowage compartment. If you were to mislay the remote control unit the keys would be inaccessible and you would be able neither to open the cases by means of the emergency unlocking routine nor to deactivate the electronic immobiliser.

1 Left button (ribbed)
2 Right button
3 LED
4 Radio remote control unit
5 Status LED (on the vehicle)

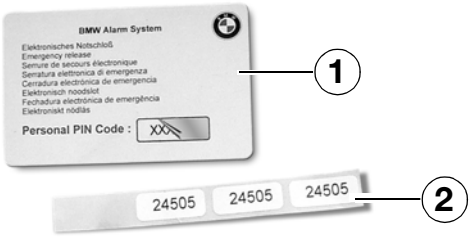
Functions of the remote control unit

Operation	Button 1	Confirmation
Press once	Lock central locking	–
Press again	Activate alarm function and immobiliser	Turn indicators flash 2x Alarm tone sounds 2x (if programmed)
Press for third time	Deactivate motion sensor (for transport, for example)	Indicators flash 3x Alarm tone sounds 3x

Operation	Button 2	Confirmation
Press once	Deactivate alarm function and immobiliser, unlock central locking	Indicators flash 1x Alarm tone sounds 1x (if programmed)
Press again	–	–
Press for third time	–	–

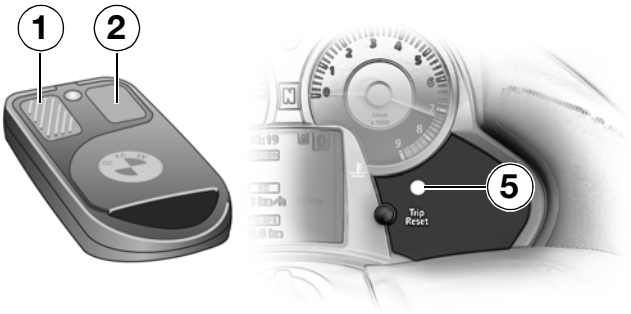
Note:
The signals from your remote control unit could be disrupted by interference from other radio systems or devices transmitting on the same frequency.
If you encounter this problem, try pointing the remote control unit at the motorcycle from a different direction.

Code card



The anti-theft alarm is supplied complete with a sealed envelope containing a code card **1**. The number stated on the code card (remove the adhesive label) is the code for deactivating the anti-theft alarm by means of the ignition (➠ 17).
It is advisable to keep the code card with the vehicle registration papers, and carry both with you when you ride the motorcycle.

The code number is stamped in encrypted form on the anti-theft alarm and it is also printed on an adhesive label **2** supplied with the anti-theft alarm. You should affix the label at a concealed location on the motorcycle.
If you forget the code and are unable to find the code card, an authorised BMW motorcycle dealer will be able to forward the encrypted number to BMW on your behalf and obtain the correct code.



Once the immobiliser has been activated the engine will refuse to start even if an authorised key is used for the start attempt. You can tell whether the immobiliser is activated by switching on the ignition and observing LED **5**; if the immobiliser is active it will light up when the pre-ride check completes.

Note:
The remote control unit activates both the immobiliser and the alarm function.
It is also possible to have the immobiliser activated automatically when the ignition is switched off (default) without activation of the alarm function (➠ 26).

Activation
The immobiliser is activated
- by pressing button **1** on the remote control unit twice (alarm function is also activated)

or
- by switching off the ignition, if programmed (➠ 26)

When you switch off the ignition, 50 seconds elapse before the activation phase.

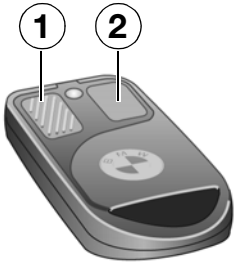
Activation of the immobiliser after ignition off but without activation of the alarm function is confirmed
- by the turn indicators flashing once

and
- by the alarm tone sounding once, if programmed (➠ 26)

Activation of the immobiliser with activation of the alarm function by means of the remote control unit is confirmed
- by the indicators flashing twice

and
- by the alarm tone sounding twice, if programmed (➠ 26)

If confirmation takes the form of the alarm tone sounding four times, this is to indicate that the anti-theft alarm's internal rechargeable battery is discharged. The rechargeable battery of the anti-theft alarm is charged through the on-board electrical system, which means that this problem might be due to a discharged starter battery. When the anti-theft alarm's internal battery is discharged the alarm will not be triggered by an attempt to disconnect the starter battery.
Contact your authorised BMW motorcycle dealer if the alarm tone sounds four times on activation even after a lengthy journey.



Deactivating the immobiliser with the remote control unit

The immobiliser is deactivated

- by pressing button **2** on the remote control unit once (if the immobiliser was activated automatically beforehand when you switched off the ignition, it is reactivated 30 seconds later).

Deactivation is confirmed

- by the turn indicators flashing once

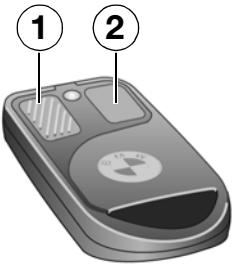
and

- by the alarm tone sounding once, if programmed (➠ 26)

If confirmation takes the form of the alarm tone sounding four times, this is to indicate that the voltage in the on-board electricity supply has dropped below a predefined threshold. In this case, recharge the motorcycle's starter battery (➠ Rider's Manual).

Deactivating the immobiliser without the remote control unit

The procedure is the same as that for deactivating the alarm function without the remote control unit (➠ 15).



Activation with motion sensor

The alarm function is activated

- by pressing button **1** on the remote control unit twice

or

- by switching off the ignition, if programmed (➠ 25)

When you switch off the ignition, 50 seconds elapse before activation.

The central locking system is not activated.

Activation is confirmed

- by the indicators flashing twice

and

- by the alarm tone sounding twice, if programmed (➠ 26)

Deactivating the motion sensor

If, for example, you want to transport your motorcycle by train, it is advisable to deactivate the motion sensor. Severe movements while the motorcycle is in transit could trigger a false alarm.

You deactivate the motion sensor

- by pressing button **1** on the remote control unit for a second time within the activation phase (➠ 12)

Deactivation is confirmed

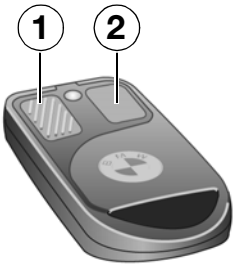
- by the indicators flashing three times

and

- by the alarm tone sounding three times

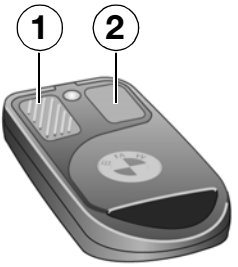
15 seconds elapse before the alarm function is fully active.

Status of the anti-theft alarm	LED
Activation phase (15 seconds)	Rapid flashing (0.1 sec. on/ 0.5 sec. off) If the motion sensor was switched off: Rapid flashing (0.1 sec. on/ 0.2 sec. off)
Anti-theft alarm active	Slow flashing (0.1 sec. on/ 0.9 sec. off)



How the alarm is triggered
The alarm can by triggered
- by the motion sensor
- by an attempt to switch on the ignition without deactivating the anti-theft alarm beforehand
- by disconnection of the anti-theft alarm from the motorcycle's battery (the anti-theft alarm's internal battery cuts in to supply power)

Alarm
An alarm lasts for 26 seconds. The alarm function is active again 12 seconds later. If the reason for the alarm persists, the alarm function is triggered again, but this can happen no more than five times in succession. You can cancel an alarm at any time after it has been triggered by pressing button **2** on your remote control unit. This function does not change the status of the anti-theft alarm. An acoustic alarm sounds and the turn indicators flash for the duration of the alarm. You can program the sound of the acoustic alarm (➠ 26).



Deactivating the alarm function with the remote control unit

The alarm function is deactivated

- by pressing button **2** on the remote control unit once

If the alarm function was activated automatically beforehand when you switched off the ignition, it is reactivated 30 seconds later.

Deactivation is confirmed

- by the turn indicators flashing once

and

- by the alarm tone sounding once, if programmed (➠ 26)

Deactivating the alarm function without remote control unit

If you do not have the remote control unit to hand when the anti-theft alarm is active, you can still deactivate the system. To do so, you will need the code number printed on your code card (➠ 6).

Deactivation is confirmed
- by the turn indicators flashing once

and
- by the alarm tone sounding once, if programmed (➠ 26)

Note:
The system will permit a maximum of 3 successive attempts; if the third attempt in succession is unsuccessful the anti-theft alarm engages for 10 minutes. The cases remain locked when the system is deactivated without the remote control unit. In this case you will have to resort to the emergency unlocking routine (➠ 21).

Step	Action	Confirmation
1	Switch on the ignition	Alarm is triggered
2	Switch off the ignition and observe the LED	LED flashing, alarm continues
3	Count the LED flashes until the number corresponds to the first digit of your code number.	
4	Switch on the ignition while the LED is on	LED OFF
5	Repeat steps 2 to 4 for each successive digit in your code number	

Reasons for an alarm

Once you have deactivated the alarm function, the LED shows you reasons for alarms, if any, that were triggered in your absence:

- Flashes 1x:
  Motion sensor
- Flashes 2x:
  Ignition on while the anti-theft alarm was primed
- Flashes 3x:
  Anti-theft alarm disconnected from motorcycle battery

The LED ceases to output this signal after 1 minute, or as soon as you switch on the ignition.
If more than one alarm was triggered, the flashing codes indicate all the reasons.

You can also check the system at some subsequent time in order to ascertain the reason why the most recent alarm was triggered. In order to do so, you must first identify yourself by means of your code number.

If the code number you entered is correct, two acknowledgement tones sound to indicate that identification is completed.

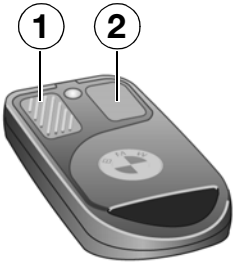
If you now switch off the ignition, the LED will flash to indicate once the reason for the most recent alarm, if any. The alarm entry is subsequently cleared from memory.

Reasons for an alarm

Step	Action	Confirmation
1	Deactivate the anti-theft alarm and switch on the ignition	
2	Within 4 seconds, switch the ignition off and immediately on again THREE TIMES in succession	LED on, 1x acknowledgement tone
3	Switch the ignition off within 15 seconds and then observe the LED	LED flashes
4	Count the LED flashes until the number corresponds to the first digit of your code number.	
5	Switch on the ignition while the LED is on	LED off, 2x acknowledgement tone
	Repeat steps 3 to 5 for each successive digit in your code number	
	Switch off the ignition	The LED flashes to indicate the reason for the alarm

Manual opening and closing

You can still open and close the cases, the topcase and the radio compartment manually with the key, as described in the Rider's Manual.



Closing with the remote control unit

Press button **1** on the remote control unit once to lock the cases, the topcase and the radio compartment. The lids are locked irrespective of whether or not a particular lock was engaged manually beforehand.

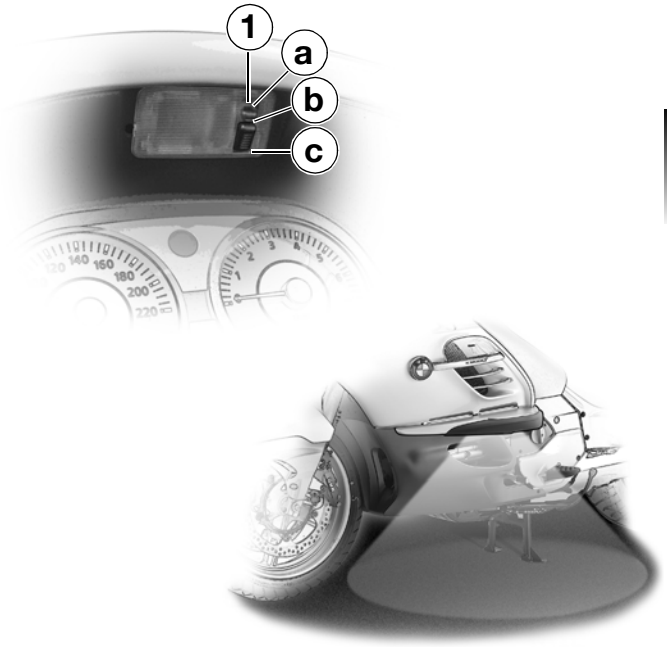
Opening with the remote control unit

Press button **2** on the remote control unit once to unlock the cases, the topcase and the radio compartment. A lock that was engaged manually remains locked even after opening with the central locking system and has to be unlocked manually. The only way of manually opening a lock closed by the central locking system is to perform the emergency unlocking routine.

If the compartments were locked by the central locking system and, for some reason, the remote control unit is not to hand, you can use the emergency unlocking routine to open them. Emergency unlocking is independent of the current status of the lock barrel. You cannot use the emergency unlocking routine to open the radio compartment.

1. Insert the ignition key into the lock you want to open.
2. Turn the key to the 45° position.
3. You can now press in the lock barrel with the key in order to open the lock. Note that the key cannot be removed from the lock barrel in this position.
4. You must turn the barrel to the unlocked position or the locked position in order to remove the key. The lock remains locked.

Overly frequent locking and unlocking within a short period of time could cause the motors of the central locking system to become very warm. An override function can cut in and interrupt operation in order to avoid damage to the motors: these interruptions can last for a maximum of 30 seconds.



The lights are switched on
- when you deactivate the alarm function

or
- by switching off the ignition, if programmed (➠ 26)

The lights dim out after 20 seconds.

Map-reading light

The map-reading light switches on automatically if switch **1** is in position **c**.

You can customise the BMW anti-theft alarm system to suit your needs and preferences as follows:

- Acoustic confirmation after activation/deactivation of the anti-theft alarm in addition to turn indicators flashing
- Automatic activation of lights when ignition is switched off
- Rising and falling (swelling) or intermittent acoustic alarm
- Automatic activation of the alarm function when ignition is switched off

Automatic activation of immobiliser when ignition is switched off

Setting	Status
Acoustic acknowledgement after activation/ deactivation	OFF
Automatic activation of lights when ignition is switched off	ON
Type of acoustic alarm	Intermittent
Automatic activation of alarm function when ignition is switched off	OFF
Automatic activation of immobiliser when ignition is switched off	ON

Programming mode, accessing

Step	Action	Confirmation
1	Deactivate the anti-theft alarm	
2	Steps 3 to 7 must be completed within 10 seconds	
3	Switch on the ignition	Wait until LED **5** goes out
4	Press button **2** once	LED lights up briefly
5	Switch off the ignition	LED shows the number of registered remote control units
6	Press button **2** three times	Indicators flash each time the button is pressed
7	Switch on the ignition	3x acoustic acknowledgement

The programming function is now active.

The number of times LED **5** flashes indicates the step to which you have progressed in programming.
An alarm tone sounds as confirmation when you press button **1**, whereas an acknowledgement tone sounds when you press button **2**.
The LED stops flashing and four acknowledgement tones sound when you complete the final step.

Step	Setting	Button 1	Button 2
1	Acoustic confirmation after activation/ deactivation	ON	OFF
2	Automatic activation of lights when ignition is switched off	ON	OFF
3	Type of acoustic alarm	Swelling	Intermittent
4	Automatic activation of alarm function when ignition is switched off	ON	OFF
5	Automatic activation of immobiliser when ignition is switched off	ON	OFF

Exiting programming mode

Note:
Note that you cannot activate the function for priming the alarm automatically when the ignition is switched off unless the system is also set up for automatic activation of the immobiliser.

Programming mode is cancelled
- by switching off the ignition before the final step is completed

or
- automatically if more than 30 seconds are allowed to elapse between any two consecutive steps in the programming routine.

Programming is saved
- by switching off the ignition after the final step is completed

or
- automatically 10 seconds after completion of the final step

Four acknowledgement tones sound to indicate that you have exited the programming function.

Your custom settings are not saved if programming is aborted.

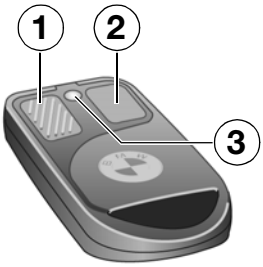
If you want to start using an extra remote control unit or replace a remote control unit that has been mislaid, you always have to register all the remote control units with the anti-theft alarm. You can register a maximum of four remote control units.

Note:
The LED flashes when the ignition is switched off: the number of flashes corresponds to the number of remote control units registered.

Starting point
You must begin by identifying yourself by means of your code number.

If the code number you entered is correct, two acknowledgement tones sound to indicate that identification is completed.

Step	Action	Confirmation
1	Deactivate the anti-theft alarm and switch on the ignition	
2	Within 4 seconds, switch the ignition off and immediately on again THREE TIMES in succession	LED on, 1x acknowledgement tone
3	Switch the ignition off within 15 seconds and then observe the LED	LED flashes
4	Count the LED flashes until the number corresponds to the first digit of your code number.	
5	Switch on the ignition while the LED is on	LED off, 2x acknowledgement tone
	Repeat steps 3 to 5 for each successive digit in your code number	



You can now register a maximum of four remote control units with the anti-theft alarm.

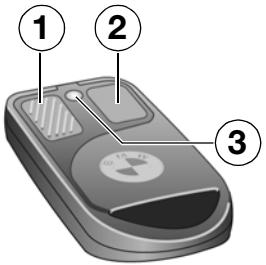
Step	Action	Confirmation
1	Press and hold down buttons **1** and **2**	LED **3** flashes
2		LED stops flashing after 10 seconds
3	Release buttons **1** and **2**	LED ON
4	Press button **1** or **2**	1x alarm, LED off
5	Repeat steps 1 - 4 for each additional remote control unit you want to register.	

Exiting registration mode

Registration terminates
- once four remote control units have been registered
- if the ignition is switched off
- if, after a remote control unit has been registered, 30 seconds elapse without a button being pressed

The LED flashes and the acknowledgement tone sounds three times when registration ends. The number of times the LED flashes after the ignition is switched off corresponds to the number of remote control units registered.

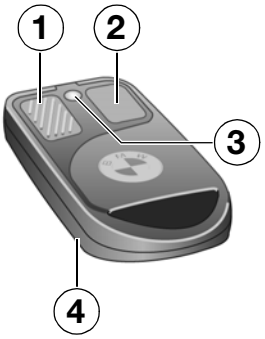
Synchronising the remote control unit



Synchronisation is necessary if the buttons on the remote control unit are pressed more than 256 times outside the range of the receiver. When this limit is reached the receiver on the motorcycle no longer reacts to signals from the remote control unit.

The procedure for synchronisation is as follows:

Step	Action	Confirmation
1	Switch on the ignition	
2	Press and hold down buttons **1** and **2**	LED **3** flashes
3		LED **3** stops flashing after 10 seconds
4	Release buttons **1** and **2**	LED **3** on
5	Press button **1** or **2**	LED **3** off



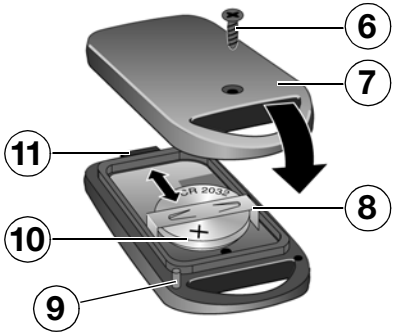
Changing the batteries in the remote control units

The batteries in the remote control units are due for replacement after approximately 2 to 3 years.You can tell when a battery is weak if LED **3** lights up only briefly, or not at all, when a button is pressed.

Attention:

Use only CR 2032 3V lithium batteries.

Take care not to reverse polarity when inserting the batteries. Inserting batteries of a different type or inserting the batteries with polarity reversed could cause irreparable damage to the device.



- Remove screw **6** and lift off the bottom section of housing **7**
- Slide the spent battery **10** out from underneath retainer **8** and insert the new battery – **making sure the positive terminal is up**
- Place the bottom section of the housing on projection **11** at the front edge and close the housing. Make sure that the two guide pins **9** are engaged. Tighten the screw.

– If LED **3** lights up after the battery has been changed, the remote control unit has to be synchronised.

- You do this by holding the remote control unit within the range of the receiver and pressing button **1** twice in succession

– LED **3** starts flashing and goes out a few seconds later
– The remote control unit is now ready for use

Anti-theft alarm	
Neutral activation time	15 seconds
Alarm duration	26 seconds
Neutral time between two consecutive alarms	10 seconds
Operating temperature	–40 °C to +85 °C
Trigger angle of the motion sensor	±0.7°
Current consumption (idle current with system active)	< 3 mA
Operating voltage	9–16 V
Remote control unit	
Range of the remote control unit	approx. 10 m
Transmission frequency	433.92 MHz (Japan: 315 MHz)
Signal frequency	> 25 kHz (broadband)
Battery for remote control unit	3 V lithium battery, type CR 2032

A
Activation phases, 12
Activation with motion sensor, 10
Alarm, 13
Alarm function
  Deactivating with remote control unit, 14
  Deactivating without remote control unit, 15

C
Changing the battery, 34, 35
Code card, 6
Code number, 6
Controls, 4

D
Default settings, 25

E
Emergency unlocking, 21

F
Functions of the remote control unit, 5

H
How the alarm is triggered, 13, 16

L
Lights, 23

M
Manual operation, 19
Motion sensor, 11

P
Programming, 26, 27

R
Remote control
  closing, 20
  opening, 20
Remote control unit
  Registering, 29, 30, 31
  Synchronising, 33

S
Safety shutdown, 22
Status LED, 4

T
Technical data, 36