



Patriot

AM/8510 NL – GB - Compact motorbike security system

Features and operation

Arming

To arm the system, press the push-button n. 1 of the radio transmitter once.
Arming will be confirmed by:

- A long flash of the turn indicators
- The lighting up of the warning light (LED)

The LED will remain constant for approximately 40 seconds. This time period is the *initialisation time* required by the alarm. Once this time has elapsed, the warning light will begin to flash indicating that the alarm is now fully set. A safety circuit makes arming impossible whilst the vehicle ignition or auxiliary circuit is active.

Disarming

To disarm the system, press the push-button n. 1 of the radio transmitter once (twice if in alarm condition).
Disarming will be confirmed by:

- A short flash of the turn indicators
- The extinguishment of the LED.

Protection functions

Dual engine immobilisation. Arming the system causes the immediate activation (without 40-sec. delay) of the engine immobiliser. This function prevents the motorbike from being driven under its own power by an unauthorised person.

Peripheral protection. The system has a negative instantaneous alarm trigger input for contact switches (to be installed - for example - on the panniers or under the seat).

Movement detection. It is ensured by a revolutionary ultra-sonic sensor (SPYBALL patent) which detects any change in the motorbike position.

Ignition lock tamper protection. A special circuit will detect any unauthorised attempts to turn ignition on whilst the system is armed.

'Passive' arming of the engine immobiliser

The function of engine immobilisation is vital to the security of a vehicle.

Therefore its activation has been made automatic (*'passive'*). That is: the engine of Your motorcycle will be immobilised automatically about 50 seconds after the ignition has been turned off, even if You forget to set the system via the radio transmitter.

The activation will be confirmed by a quick flash of the LED and of the turn indicators.

Upon return to Your motorbike, as soon as you turn the ignition ON, the LED will start flashing quickly to remind You that the engine is immobilised.

At this stage, to disarm the immobiliser and be able to start Your motorbike, keep the ignition key ON and simply press the push-button n. 1 of the radio transmitter. Disarming will be confirmed by the extinguishment of the LED.

IMPORTANT: for security reasons, if turning the ignition ON is not followed by pressing the push-button of the radio-transmitter (or, in case of loss or failure of the transmitter, by the emergency disarming procedure - see paragraph 'Emergency disarming confidential code'), after one minute the complete system will passive set and give an alarm.

Disabling the function of 'passive' arming of the engine immobiliser

'Passive' arming can be temporarily turned off (to allow for maintenance operations, for example).

To delete *'passive'* arming:

- Turn ON ignition (*if the engine immobiliser is active, You will be warned by the LED flashing quickly - if so, press the push-button n. 1 of the transmitter to disarm*);
- Turn OFF ignition, then press the push-button n. 2 of the transmitter **within 6 seconds**;

- A flash of the LED and of the turn indicators will confirm You have de-selected the function of 'passive'arming;
 - Release the push-button.
- For security reasons, this de-selection is temporary. "Passive" arming will be reinstated automatically the next time the system is armed.

Working principle of the movement detector (SPYBALL patent)

The movement detector integrated in this security system consists of a small plastic sphere housing a metal ball. The interior of the sphere is controlled by an ultrasonic transmitter/receiver set, which detects any change in the position of the ball.

This revolutionary principle ensures accurate detection independently of the motorcycle parking position.

Note: the response of the detector is slower at low temperatures. If required, adjust to maximum sensitivity.

Temporary disabling/reduction of the sensitivity of the movement sensor

Movement detection may be temporarily deleted or made less sensitive.

These facilities may be useful when anti-theft protection is required but the bike may be subject to movement (for example: in case of windy weather, on a ferry, etc.).

DISABLING PROCEDURE:

- Upon arming the system, hold down the push-button n. 1 of the remote key until You get a long flash of the turn indicators followed by three shorter flashes.
- The cancellation is temporary, that is valid for an arming period only. The function of movement detection will be reinstated upon the subsequent arming.

SENSITIVITY REDUCTION PROCEDURE:

- During the 40-sec. inhibition time subsequent to arming, depress the button n. 2 of the remote key;
- A short flash of the turn indicators will confirm that the sensitivity of the movement detector has been lowered.
- The decrease is temporary, that is valid for an arming period only. Full sensitivity will be reinstated upon the subsequent arming.

Alarm cycle

Any irregularity being detected

- by the peripheral detection circuit (for example. the opening of a pannier protected by a contact switch),
- by the movement detector (for example: an attempt to tow the motorbike away);
- by the ignition lock tamper protection circuit (for example: an attempt to force the lock)

will generate an alarm cycle of 30 secs (peripheral and movement detection) or of 10 secs (ignition lock tamper protection).

The alarm condition will be signalled by the 115dB piezoelectric siren which is integrated in the device (sound warning) as well as by the flashing of the turn indicators (visual warning).

After that the device will automatically return to the set condition.

During the alarm condition pressing the remote control once will simply silence the siren and stop the indicators, leaving the system armed and ready to detect further irregularities. In order to disarm the system it is necessary to press the push-button a second time.

Self-powering

This model is self-powered, that is equipped with Ni-Cd back-up batteries rechargeable with the run of the vehicle. In case of cut of the normal power-supply (for example, cut of the cables of the motorbike battery), the internal batteries will allow the system to signal the sabotage.

Alarm cycle monitoring facility

This facility is designed to minimise any environmental disturbance, in conformity with the requirements of the latest EEC Directives. It limits to 6 the number of repeated alarm cycles generated by a protection function.

Automatic timed switch-off function ('sleep' function)

The current consumption rates of this alarm system are extremely low.

Nevertheless another special facility has been implemented in order to protect the battery of Your motorcycle:

AUTOMATIC TIMED SWITCH-OFF FUNCTION.

The device switches off automatically after the motorbike has been stationary for 5 days with the alarm system in disarmed status or 21 days with the alarm system in armed status. Only the engine immobiliser remains active (if it was originally). The current consumption rate drops to nearly zero.

While in 'sleep' condition, the alarm system does not respond to the radio transmitter, because the receiver is also OFF.

If this happens, keep the push-button n. 1 of the remote key pressed and turn ON ignition. This will reinstate the normal functions of the device.

Alarm memory

If the alarm has been triggered in Your absence, You will be warned by an additional short flash upon disarming.

Features of the radio key

The remote control set of this security system is protected against the use of devices called '*scanners*' and '*grabbers*' which can record and reproduce the key code.

In fact the key code changes every time the alarm is turned on/off thanks to an advanced method of random encryption ('*Ghost Code*') which is unique to SPYBALL products.

The radio key has got two buttons with different functions (see picture) and is powered by a 6V battery.



Initialisation of new remote keys

The alarm system is originally supplied with two radio keys.

In case of loss or failure, a new transmitter can be initialised (preferably by a SPYBALL dealer) as follows:

- After removing the protection cover, make a bridge between the two wires N. 11-13 via the special 'jumper' connector which comes with the system (see fitting accessories);
- Disarm the system via the remaining transmitter;
- Within 20 seconds, press the push-button n. 1 of the same transmitter. The LED and turn indicators will flash;
- Then press the push-button n. 1 of the spare transmitter. The LED and turn indicators will flash once more;
- Remove the 'jumper' connector.

☛ **IMPORTANT: IF THE 'JUMPER' CONNECTOR IS NOT REMOVED, THE SYSTEM WILL NOT WORK.**

If You need to initialise two new transmitters:

- After removing the protection cover, make a bridge between the two wires N. 11-13 via the special 'jumper' connector which comes with the system (see fitting accessories);
- Disarm the system via the emergency disarming procedure (confidential code);
- Within 20 seconds, press the push-button n. 1 of one of the transmitters. The LED and turn indicators will flash.
- Then press the push-button n. 1 of the other transmitter. The LED and turn indicators will flash once more;
- Remove the 'jumper' connector.

☛ **IMPORTANT: IF THE 'JUMPER' CONNECTOR IS NOT REMOVED, THE SYSTEM WILL NOT WORK.**

REMARKS:

- 1) For security reasons, every system can accept a maximum of two remote keys.
- 2) Every initialisation procedure disables the transmitters which the receiver had previously 'learnt'. Therefore: if You have lost a key and You wish to initialise a spare one, do not forget to initialise also the one which has remained in Your hands (or it will stop working). If You do not wish to initialise a spare one, re-initialise the transmitter which has remained in Your hands: so doing You will disable the one You have lost.

Re-alignment of remote keys

This operation is necessary in the event that a remote key already 'learnt' by Your alarm system has got desynchronised from the receiver. This may happen, for example, because of a long period without battery or with a flat one:

- Press the push-button n. 1 of the remote key one second, then release it;
- Press it again and hold it down about 15 seconds;
- The transmitter and receiver will get re-aligned;
- The alarm system will switch on or off.

Emergency disarming confidential code

In case of loss or failure of the radio transmitter, the security system can be disarmed via the following emergency procedure, using the '*confidential code*' which is printed on the card in the user information pack.

PROCEDURE:

If the complete system is armed.

- ① Turn the ignition on.
The alarm will begin to sound.
- ② Wait 10 seconds.

The alarm will stop. The LED will start to flash.

- ③ Count the number of flashes. As soon as the number of flashes equals the first digit of Your secret code, turn the ignition OFF. (For example, if the first digit of Your code is 3, then wait for the LED to flash 3 times before turning the ignition OFF).

The LED will go out.

- ④ Three seconds later, turn the ignition ON again.

Count the number of flashes. As soon as the number of flashes equals the second digit of Your secret code, turn the ignition OFF (for example, if the second digit of Your code is 2, then wait for the LED to flash 2 times before turning the ignition OFF).

If the first two digits are recognized, the LED will give some quick flashes and You will be allowed to go on and enter the remaining digits using the same procedure.

In case of error, a 10-sec. alarm cycle will follow.

After that You will be able to repeat the procedure (starting from pos. 3).

- ⑤ ONCE ALL THE DIGITS HAVE BEEN ENTERED PROPERLY, THE SYSTEM WILL DISARM ITSELF. THIS WILL BE CONFIRMED BY THE FLASHING OF THE TURN INDICATORS.

If only the engine immobiliser is armed:

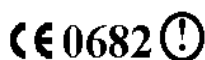
- ① Turn the ignition ON;

The LED will start flashing quickly to indicate that the immobiliser is active. After one minute, it will stop then begin to flash slowly.

- ② Follow the same procedure as described in the previous paragraph, starting from pos. 3.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR DAMAGE TO THE MOTORBIKE ELECTRICAL SYSTEM AND CONSEQUENTIAL DAMAGE AS A RESULT OF INCORRECT INSTALLATION. DIAGRAMS DESCRIPTIONS AND FEATURES ARE ONLY INDICATIVE. THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THEM WITHOUT NOTICE.

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DECLARATION OF CONFORMITY

according to art. 6.3 of Directive 99/5/EC (R&TTE Directive)

Manufacturer:

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Product identification: TR/07-N, TX/01, TR/08-N, TR/09-N1, TR/10-N

Product type / use: low power radio transmitter for remote control

WE HEREBY DECLARE ON OUR OWN RESPONSIBILITY THAT THE ABOVE LISTED TRANSMITTERS COMPLY WITH THE ESSENTIAL REQUIREMENTS AND OTHER RELEVANT PROVISIONS OF DIRECTIVE 1999/5/EC.

Reference standards:

EN 300 220-1/1997, EN 300 220-3/2000 (TR/09-N1), EN 60950 (1992) 2nd Edition, EN 41003/1993, ETS 300683/1997

Test reports n° / issued by:

TR/07-N , TX/01	VAEE 27194 ETS VAEE 27194 SFT VAEE 27194 EMV	TGM Versuchsanstalt Wien – Austria
TR/08-N	VAEE 27195 ETS VAEE 27195 SFT VAEE 27195 EMV	TGM Versuchsanstalt Wien – Austria
TR/09-N1	VAEE 27196A ETS VAEE 27196A SFT VAEE 27196A EMV	TGM Versuchsanstalt Wien – Austria
TR/10-N	VAEE 27196 ETS VAEE 27196 SFT VAEE 27196 EMV	TGM Versuchsanstalt Wien – Austria

Notified Body involved with the assessment procedure:

0682 – Cetecom ICT / Saarbrücken / Germany (Certificates of Conformity n. E812234N-CC, E812232N-CC, E812232N-CC, E812598N)

Intended use in:

All EU Countries + Switzerland, Norway and Iceland

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SPYBALL DIVISION
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