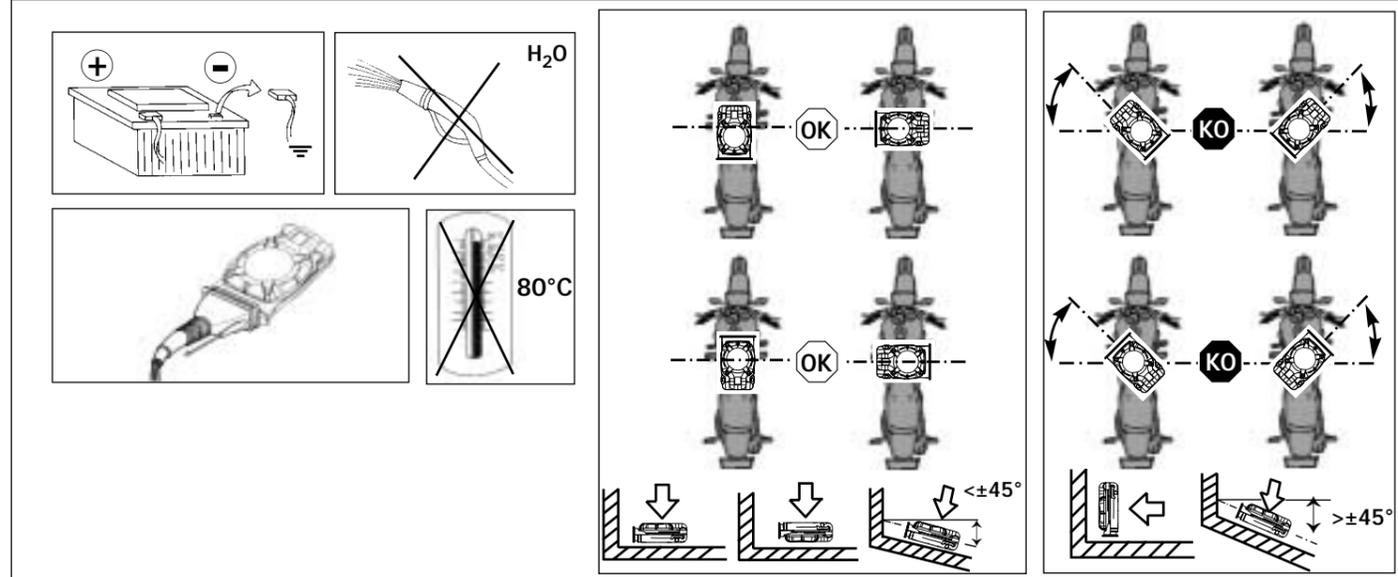
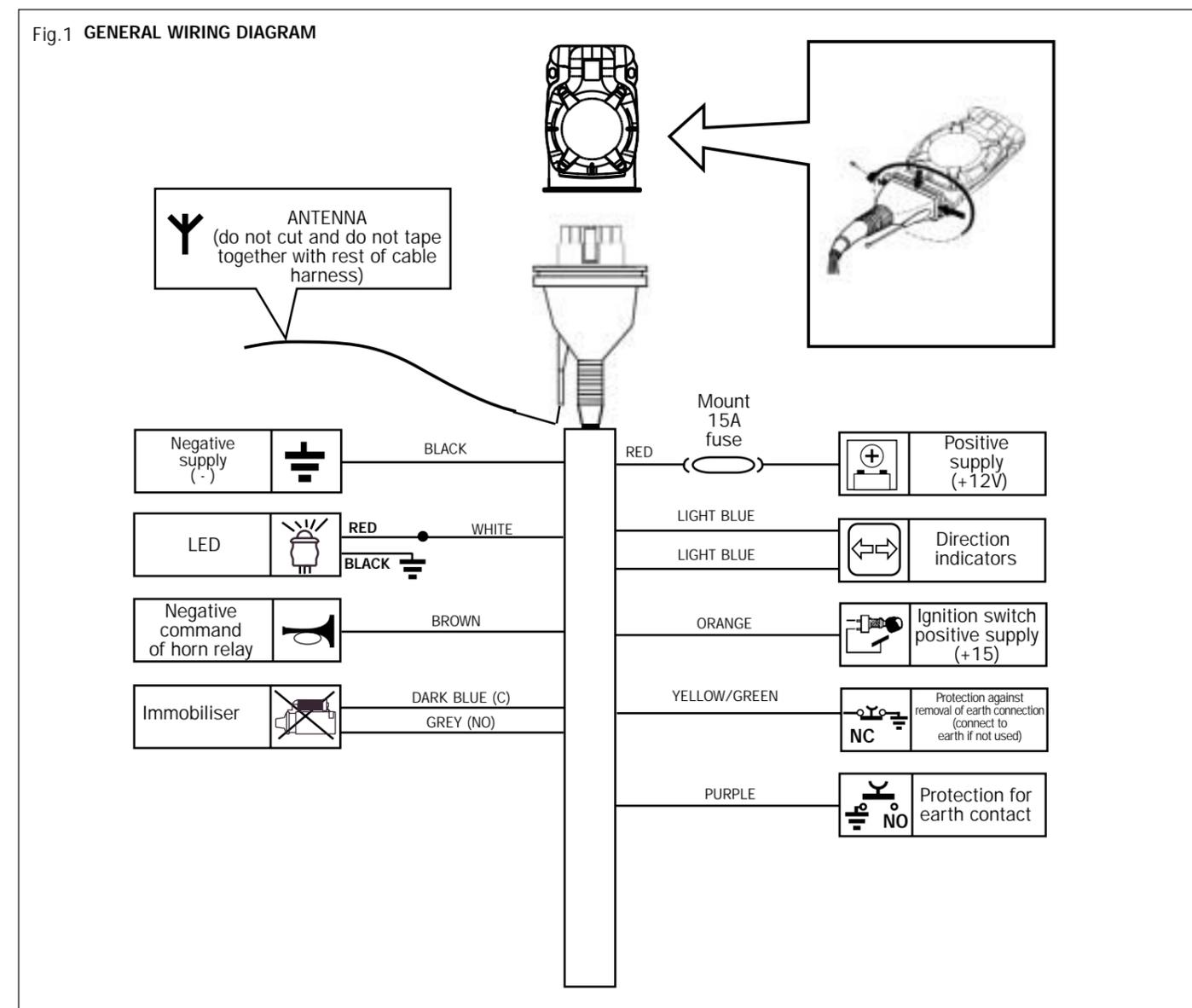


INSTALLATION



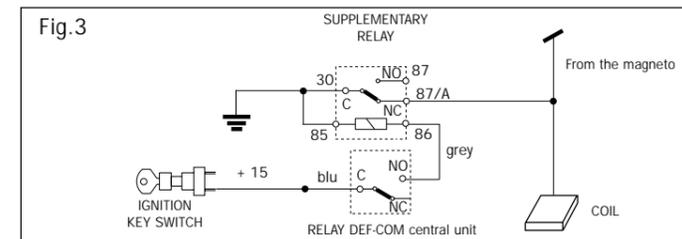
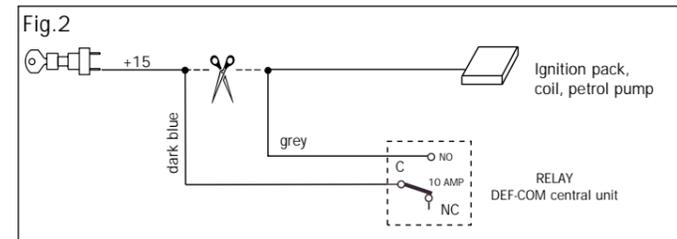
CONNECTIONS

Fig.1 GENERAL WIRING DIAGRAM

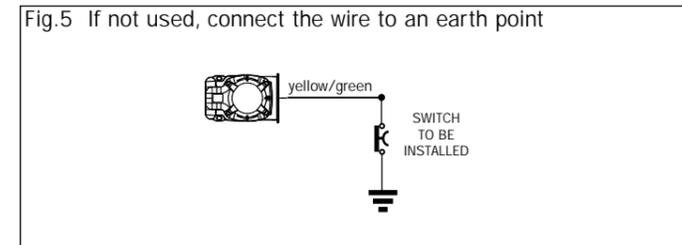
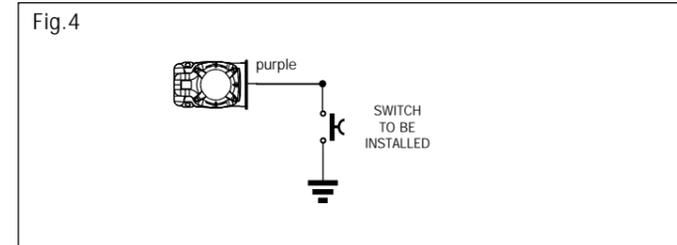


IMMOBILISER (FAIL SAFE SYSTEM)

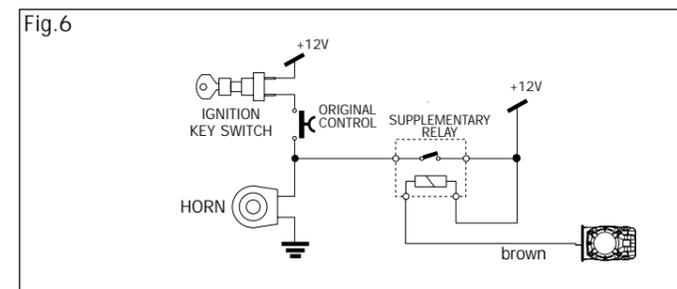
Positive Logic (the relay switches over when the central unit is disarmed and ignition +15 is present.)



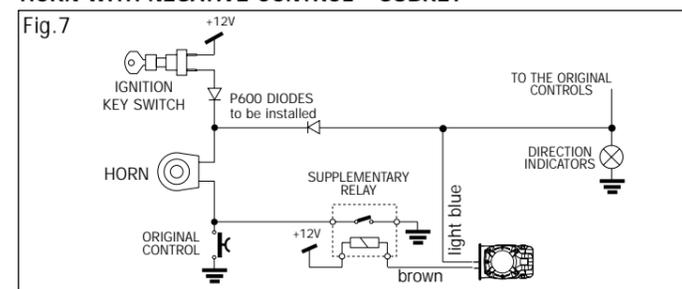
SWITCH PROTECTION



HORN WITH POSITIVE CONTROL - SUBKEY



HORN WITH NEGATIVE CONTROL - SUBKEY



FINAL CHECK

When installation is complete and the harness connector has been connected to the alarm central unit, proceed as follows:

- re-connect the battery of the machine.
- Turn the machine's ignition key ON and then OFF again
- 50 seconds later, the immobiliser will automatically arm: the direction indicators flash briefly once, the siren beeps once and the LED starts to flash very slowly.
- Disarm the alarm system using the remote control: the direction indicators flash once, the siren beeps once and the LED switches off.
- Within 50 seconds turn the machine on to check that the connections made are operating correctly.
- Switch the engine off and turn the machine's ignition key OFF. Arm the alarm system within 50 seconds: the direction indicators flash twice, the siren beeps twice and the LED flashes, with very brief switches off.
- During the initial 26 seconds immunity period, do the following tests which should provide a BEEP if they have a positive result:
  - Turn the machine's key ON.
  - Activate any switch protection (opening of the saddle compartment, removal of the firewall, ...)
  - Move the machine to activate its tilt protection.
 The timing of the immunity period is reset every time a beep is heard.
- Once the immunity period is over, the LED flashes with an reversed sequence (long switches off) and the alarm system will be triggered for one 26 sec. cycle by the activation of any of the protection switches, or by turning the machine's key ON, by moving the machine: the siren will produce its distinctive, modulated sound, the direction indicators flash and the horn (if connected) will sound intermittently. Check the engine immobiliser operates correctly during the alarm cycle.
- When the alarm system is disarmed, the LED will remain on and the siren will emit a BOOP sound to signal that it has memorised an alarm trigger: refer to the user manual for the code of this signal and for all other features/settings of the product..



**DEF•COM 3  
OPERATION MANUAL**

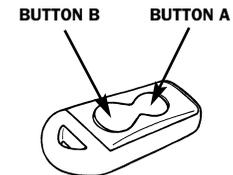
**MotorCycle Alarm** by **META SYSTEM**

**SIGNALS**

STATUS OF CENTRAL UNIT	LED	DIRECTION INDICATORS	SIREN
Passive arming	Slow flashing	1 short flash	1 BEEP
Arming by remote control	Flashing	2 flashes	2 BEEP
Arming without internal lift and tilt sensor	On fixed during initial immunity phase	flashes 2 + 1	BEEP 2 + 1
Arming with open contact	Flashing	2 flashes	2 BEEP-1 BOOP
Initial immunity phase	Reversed flashing		
Testing during the initial immunity phase	Reversed flashing		1 BEEP
Central unit armed	Flashing		
Alarm cycles	Flashing	lampeggianti	Sounds
Disarming without alarms	Switches off	1 flash	1 BEEP
Disarming when the motorcycle's battery is flat	Switches off		4 BEEP
Disarming when alarms have been memorised	Switches off briefly every 6 sec.	1 BEEP - 1 BOOP	
<b>MEMORISED ALARMS</b>		<b>LED SIGNALS</b>	
Internal movement sensor		1 flash	
Contacts		2 flashes	
Ignition sensing		3 flashes	
Tampering with cables or battery		4 flashes	

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If various alarms have been triggered, the memory will signal them in a sequence with 3 second pauses and will repeat the sequence every 6 seconds.  
The memory is reset when the motorcycle is started up or when the alarm system is armed with the remote control again.



The acoustic signal emitted when the alarm is armed and disarmed fails to comply with the national norms in Germany and must therefore be disabled.



#### **PASSIVE ARMING**

The central unit arms automatically in 50 seconds:

- After the motorcycle's key has been turned OFF, or
- After the remote control has been pressed to disarm the alarm system, or
- After the alarm system has been disarmed using the 'override' code.

The passive arming is signalled by a short flash of the direction indicators, by a BIP from the siren, the very slow flashing of the LED; only the engine immobiliser is armed. It is also possible to select the passive arming of all the alarm system (see the paragraph on configuration). In this case, the signals given are the same as those of arming using the remote control.

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#### **MANUAL ARMING**

Press the button A of the remote control briefly within 50 seconds of turning the motorcycle's ignition key OFF; the direction indicators flash twice and the siren emits 2 BEEP sounds. All the central unit's functions have been activated and the LED is flashing.

#### **ARMING WITHOUT ACTIVATING THE INTERNAL MOVEMENT SENSOR**

Press the button A of the remote control for approximately 2 seconds and within 50 seconds of turning the motorcycle's ignition key OFF; the direction indicators flash 2 + 1 times and the siren emits 2 + 1 BEEP sounds. All the central unit's functions have been activated except the movement sensor.

The LED remains on without flashing for the initial immunity phase and then flashes normally.

#### **DISARMING**

Press the button A of the remote control briefly: the direction indicators flash once, the siren emits 1 BEEP sound and the LED switches off if no alarms have been triggered while the alarm system was active. If the LED remains on and the siren also emits a BOOP sound, this means that the alarm system was triggered. To find out how the alarm was triggered, consult the MEMORISED ALARMS table.

If visual and acoustic signals are given during arming or disarming that are different to those described above, consult the SIGNALS table to find out what they mean.

#### **INITIAL IMMUNITY PHASE**

For the first 26 seconds after the alarm system has been armed with the remote control, the LED flashes slowly to signal that it is possible to test the protection functions of the system. Any alarm triggers do not provoke an alarm but just BEEP sounds by the siren together with the resetting of the initial immunity phase which starts again. When this phase is over, the LED reverses its flashing sequence (short switches on) and any alarm triggers will provoke an alarm.

#### **ACTIVE PHASE**

This is when the alarm system is armed and after the initial immunity phase is over. Any alarm triggers will provoke an alarm cycle that lasts 26 seconds: the direction indicators flash, the siren, when connected, emits a distinctive, modulated sound the horn will sound intermittently and it will be impossible to start the engine.

#### **PROTECTION BY THE ALARM SYSTEM**

The alarm central unit protects the motorcycle against being started and an alarm cycle will be triggered every time:

- the ignition key is turned ON
- an attempt is made to remove or move any part of the motorcycle which is protected by specific switches (for example if the seat or the storage compartment is opened ...)
- the motorcycle is moved
- the alarm system's supply cables are disconnected or cut or if the motorcycle's battery is disconnected

#### **STOP MODE – LIMITING CURRENT CONSUMPTION**

The alarm system automatically switches off in order to limit the consumption of current in the motorcycle's battery, automatically excluding the alarm functions but maintaining the immobilisation of the engine. In this condition current consumption is nil.

STOP MODE is activated 5 days after the system was armed by remote control or automatically (passive arming) if no alarms were triggered in this time;

- If the motorcycle's battery is almost flat.

To exit STOP MODE, turn the ignition key ON: the siren will emit a series of BEEP sounds. Press the remote control within 5 seconds of the BEEPS to disarm the alarm system. If the remote control is not pressed within 5 seconds, an alarm cycle will be triggered.

#### **EMERGENCY BLINKER**

The Motorcycle's Blinker can be armed by remote control.

To arm, press button A on the remote control 2 times when the ignition key is in the ON position.

To disarm, press button A on the remote control 1 time when the ignition key is in the ON position.

NB: When the Blinker has been armed by remote control and the ignition key is in the OFF position, the alarm can be armed: this will automatically neutralise the internal lift and tilt sensor

#### **PANIC**

It is possible to trigger a 10 second alarm cycle by pressing the B button on the remote control. This alarm cycle can be interrupted by pressing the same button again.

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**SPECIAL FUNCTIONS – CONFIGURATION**

It is possible to set some alarm functions to adapt the alarm system to the motorcycle and its driver's needs. To set the functions, which are described in the table below, proceed as follows:

1. arm the alarm system with the remote control
2. turn the ignition key ON within 10 seconds: the siren will make a BEEP sound to confirm selection
3. press the remote control's button A briefly 4 times: the siren will make 4 BOOP sounds to confirm reception of the signal
4. turn the motorcycle's ignition key OFF
5. turn the motorcycle's ignition key ON and then OFF the same number of times as the number of the special function to be set (see table). Leave the ignition key ON the last time: the LED is on
6. briefly press the button A of the remote control once if the settings described in the first column are required (see table - BEEP column)
7. briefly press the button A of the remote control twice if the settings described in the second column are required (see table - BOOP column)
8. turn the ignition key OFF and briefly press the button of the remote control to exit programming mode, otherwise repeat from step 5 to set another function.

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TABLE SPECIAL FUNCTIONS – CONFIGURATION (factory settings in bold type )

	FUNCTION	BEEP	BOOP
<b>1</b>	Buzzer when arming and disarming	<b>YES</b>	NO
<b>2</b>	Direction indicators when arming and disarming	<b>YES</b>	NO
<b>3</b>	Horn/siren alarm output or control of activation	<b>Allarm</b>	Activation
<b>4</b>	Control of alternate horn or continuous siren	<b>Alternated</b>	<b>Continuous</b>
<b>5</b>	Passive arming only of immobiliser or also alarm function	<b>Immobiliser</b>	Also alarm
<b>6</b>	Passive arming with movement sensor enabled	<b>YES</b>	NO
<b>7</b>	Alarms of cyclical or single contacts	<b>Cyclical</b>	Single
<b>8</b>	Enabling of automatic arming	<b>YES</b>	NO

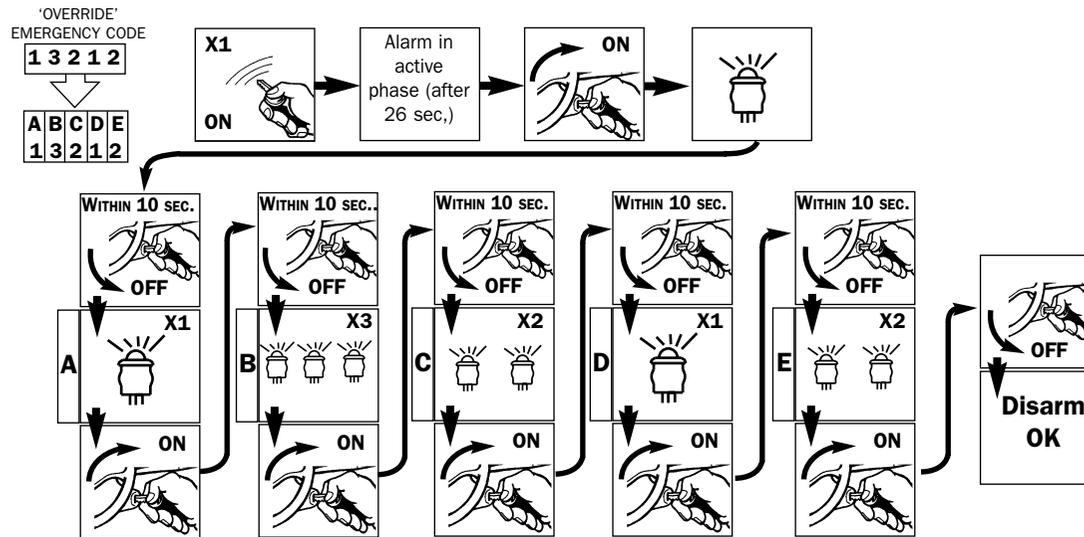
**'OVERRIDE' EMERGENCY CODE**

If a remote control is lost, stolen or damaged, it is possible to disarm the alarm system with a 5 digit emergency code called the 'OVERRIDE' code. The code is found on the label supplied with the remote controls.

This label must be kept in a safe place and not with the motorcycle.

The procedure is operational only after the initial immunity phase is over, and if the alarm functions are operational, alarm cycles will be triggered while the override code is inserted.

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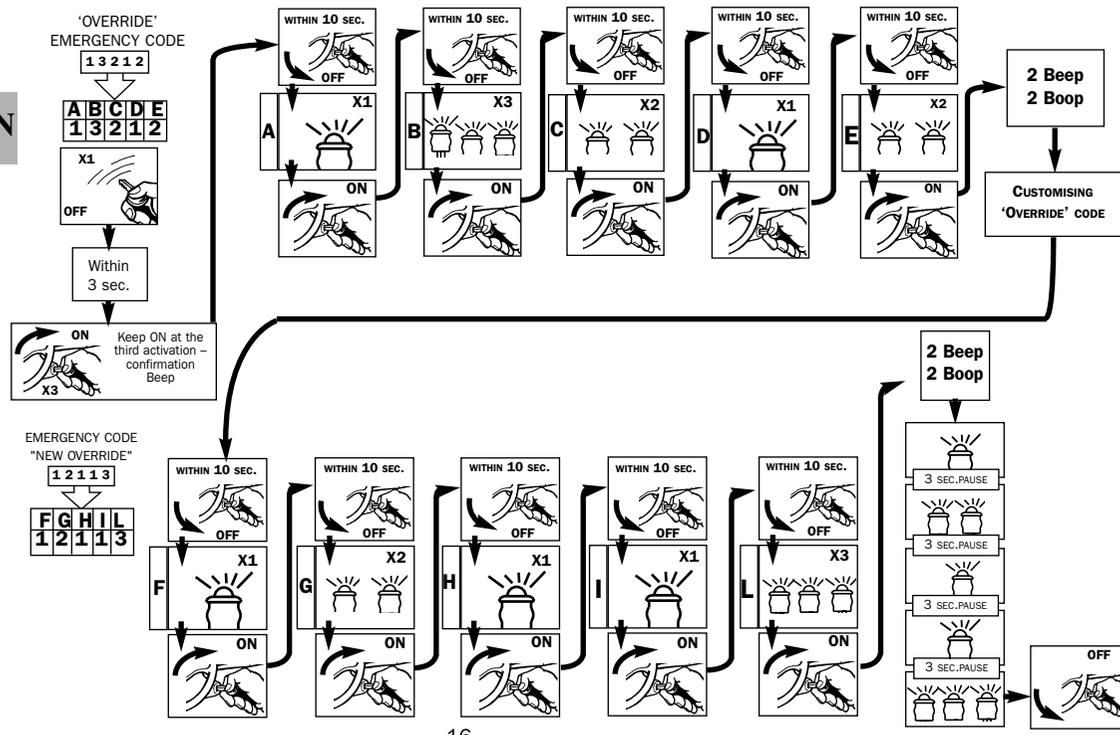


WARNING: if 3 attempts to insert the wrong code are detected, the central unit will be blocked for 30 minutes in order to prevent attempts to search for the code.

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**CUSTOMISING THE 'OVERRIDE' CODE**

It is possible to customise the 'override' code so that it is easier to remember in case of emergency. Proceed as follows:



#### RESTORING THE DEFAULT OVERRIDE CODE

Should the driver forget or lose the override code for the product, the '11111' default override code can be restored provided he has two remote controls. Follow the procedure below to do this:

Disarm the product using the remote control, turn the motorcycle's ignition key to ON and press button A alternately on both remote controls twice. The siren confirms that the override code has been restored by means of its Beep-Beep-Boop-Boop sequence, and the LED then displays the code 11111. All the actions requiring use of the override code can now be completed since it has been confirmed.

#### ADDITIONAL REMOTE CONTROLS

The alarm system is usually supplied with 2 remote controls, called nr. 1 and nr. 2.

It is possible to check how many remote controls are programmed into the alarm system's central unit every time the motorcycle is switched off (i.e. when the ignition key is turned OFF): the LED flashes the same number of times as the number of remote controls.

To add or remove remote controls from the memory, gather all the remote controls together that are to be included in the alarm system's memory (new remote controls must be programmed at your dealer's with the code on the red code-card that is supplied with the product) and proceed as follows:

1. disarm the alarm system
2. turn the ignition key ON for 3 times within 5 sec and keep it ON the last time (a BEEP sound confirms selection)
3. turn the ignition key OFF within 5 sec and insert the 'override' code
4. when the fifth digit is confirmed, keep the ignition key ON: a series of BEEP-BEEP-BOOP-BOOP sounds confirms the code was correct
5. briefly press the button A of the remote control to be included: the LED flashes to confirm reception
6. press the button A of the same remote control again: a BEEP sound the LED switching OFF confirms it has been memorised
7. repeat steps 5 and 6 for all the remote controls to be included. Any remote controls that are not used (e.g. if lost) will be excluded.
8. turn the ignition key OFF a series of BEEP-BEEP-BOOP-BOOP sounds confirms the end of the procedure and the LED flashes the same number of times as the number of included remote controls.

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**SPECIFICATIONS**

Power supply	12Vcc (10V-15V)
Consumption	1,8 mA
Consumption in Stop mode	0 mA
Operating temperature	- 25°C + 85°C
Sound level of siren (1 m)	114 dB
Self-supply autonomy	5 minutes
Remote controls	72 million billion variable codes (lithium battery)
<b>EN</b> Sensitivity of internal movement sensor	1,5° per second
Emergency 'override' code to reset immobiliser and alarm functions.	

**CAPACITY OF CONTROLS**

Starter motor relay	10A
Direction indicator relay	5A + 5A
Horn control	Negative electronic 300mA

**TIMING**

Initial immunity phase	26 seconds
Duration of alarm cycle	26 seconds
Interval between alarm cycles	5 seconds
Passive arming delay	50 seconds
Stop mode delay	5 days
Intermittence of direction indicators	0,4 sec.off/0,4 sec.on

**ALARM CYCLES**

Contact alarm inputs	10 cycles
Ignition sensing	10 cycles
Cable tampering	9 cycles

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(to be cut out and issued to the vehicle owner)

**META SYSTEM**  I the undersigned, \_\_\_\_\_, professional installer, certify that the installation of the vehicle protection system described below has been carried out by myself in accordance with the installation instructions supplied by the manufacturer of the system.

**DESCRIPTION OF THE VEHICLE**

• MAKE: \_\_\_\_\_ • TYPE: \_\_\_\_\_

• SERIAL NUMBER: \_\_\_\_\_ • REGISTRATION NUMBER: \_\_\_\_\_

**DESCRIPTION OF THE VEHICLE PROTECTION SYSTEM**

• MAKE: **MetaSystem** \_\_\_\_\_ • TYPE: \_\_\_\_\_

• APPROVAL NUMBER: \_\_\_\_\_ at \_\_\_\_\_, on \_\_\_\_\_

Installer's full address (and stamp, if appropriate): \_\_\_\_\_

Signature: \_\_\_\_\_ (please specify job position) \_\_\_\_\_