

MOTORCYCLE  
ALARM

by



## M357T OPERATING INSTRUCTIONS

### Engine immobilisation (passive arming)

-Activation occurs 50s after the system is disarmed and the ignition is not turned on or 50 seconds after the ignition is turned off.  
-The system will emit a short beep and a short flash of the indicators to indicate arming.

-Only the engine immobilisation circuit is active.

-The LED flashes slowly.

-If the system remains in this status at least 10 days, or detects that the bike battery is discharging too quickly, it goes in shut down-mode.

-All systems except the immobiliser are turned off and there is no current drain from the machine's battery.

-To re-activate the system from the shut down mode, turn on the ignition and disarm via the remote control or via the override code.

**Note:** When the system is armed only as an immobiliser the battery back up is not activated and the system will not sound if the machine's battery is removed enabling servicing of the battery or other systems to take place.

### Fully arming the system (Alarm and Immobiliser)

-Press the remote control with the ignition off before the system has passively armed (i.e. within the first 50 seconds of turning the ignition off).

-The direction indicators will flash twice and the buzzer will emit two audible signals if all is correct with the machine. If there is a problem with the machine or alarm, a different arming signal will be heard (see the notes at the end of the operating instructions).

-The LED will flash at an increased rate for 26 seconds.

-During this 26 second initial immunity period, it is possible to test the alarm trigger inputs without triggering the alarm, an audible beep can be heard as each input is tested.

-At the end of the 26-second immunity period the LED will flash at a reduced rate and the alarm will trigger when any input is activated.

#### **Note:**

-If on arming the machine's battery or the alarms' back up battery is detected as discharged, the buzzer will emit four fast "bips" to indicate the problem.

-If on arming, one of the protection circuits is detected as active, the buzzer will emit two normal "beeps" followed by a "boop".

### Disarming with remote control

-To disarm the system whether armed passively (immobilised), as an alarm, or when sounding, press the remote control once.

-The direction indicators flash once (if the machine's battery is charged).

-The buzzer beeps once (unless the system has been triggered)

-The engine immobilisation circuits are deactivated.

-The LED will be off (unless the system has been triggered).

-You now have 50 seconds to turn the ignition on and start the machine.

-If the ignition is not turned on within 50 seconds the machine will passively immobilise.

#### **Note:**

-If during the arming period the alarm was triggered, on disarming the buzzer will emit a warning "boop" and the LED will flash to indicate how the alarm was triggered (see the diagnostic table at the end of the operating instructions)

-If the machine's battery is in a low state of charge, the buzzer will emit 4 fast "bips" and the machine's indicators will not flash.

-Each time the machine's ignition is turned off the LED flashes the number of times equal to the number of remote controls programmed into the system.

### Arming the alarm without the movement sensor

-With the system fully disarmed (i.e. within 26 seconds of turning off the ignition), press and hold the remote control button for 2 seconds.

-The alarm will emit 2 normal arming beeps and flashes followed by a short flash and beep after an increased pause.

-The LED will flash with the same sequences as if normally armed and the system will sound to all alarm inputs except the movement sensor.

-The system is only armed without the movement sensor for the period covered by that armed cycle (i.e. the next time the system is armed with the remote control it will be fully armed with the movement sensing included).

### Movement sensor

-The sensor is integrated in the alarm

-At maximum sensitivity, typical movement necessary to trigger an alarm is a change of inclination of 1.5°.

-It is able to detect very slow movements.

-It is immune to the shocks (if short duration) and to vibrations.

-Adjustment not required.

-Can be excluded for one active cycle, by arming with the remote control being pressed for more than 2 seconds.

### Operation of the alarm when fully armed (active phase)

-This describes the status where any activation of a trigger sounds the alarm.

-The LED flashes slowly and the engine immobilisation circuits are active.

-The activation of one of the protective switches, or ignition, or the movement sensor (if set), generates maximum 10 alarm cycles per each setting period.

-If the protective contacts or the ignition are latched, the 10 alarm cycles are generated in sequence with a gap of 5 seconds between each cycle.

-Each alarm cycle lasts 26seconds.

-The disconnection of the bike battery generates 9 alarm cycles with 15-second intervals.

#### **Note:**

-If the machine's battery becomes drained, the alarm switches off (shut down mode).

-If the system is not disarmed/armed or is not triggered for 10 days the alarm enters shut down mode.

### Exiting shut down mode

-To exit the shut down mode turn the ignition on.

-If the alarm entered shut down mode from its alarmed state it gives a 5 second pre-alarm beep signal to allow disarming before sounding.

-If after the 5second period the system is not disarmed, it triggers an alarm cycle.

### Disarming with the "override code"

-Disarming is only possible when the system is armed via remote control or passive armed, but not during the 26s initial immunity period.

-All systems are factory preset with a random 5-figure sequence. This code is printed on the Orange remote control code card. The owner should store this card securely as it can be used to disarm the system and also add and remove transmitters (dealer function).

-To disarm the system using the override code, use the following procedure:

- 1. Turn the ignition on (the LED will be on)**
- 2. Turn the ignition off within 10s (the LED will flash with an even sequence)**
- 3. Turn the ignition on when the LED has flashed the number of times corresponding to the first digit of the override code**
- 4. Turn the ignition off within 10s (the LED starts a new flash sequence)**
- 5. Turn the ignition on when the LED has flashed the number of times corresponding to the second digit of the override code**
- 6. Continue with this procedure until the entering of the fifth digit.**
- 7. When the fifth digit has entered, if the code is correct, the system disarms.**

#### **Warning!**

If the three wrong override codes are entered, the system doesn't allow the disarming with the override code. At this stage is necessary to wait for 30 minutes with the ignition off before entering the correct override code.

**Note:** If the alarm is armed, the entering of the override code will trigger an alarm cycle; even in case of alarm, continue with the described procedure.

### Remote controls

-Normally the system is supplied with two remote control called No.1 and No.2.

-The remote controls have  $7.2 \times 10^{16}$  variants and are rolling code, therefore anti scan and anti grab.

-An Orange code card is issued with all systems when produced. Only this card contains the remote control and pass code numbers required to introduce new remotes and override the system. It is therefore of utmost importance this card is stored securely. Should you sell the machine, please pass the code card to the new owner.

-It is possible to remove a lost or stolen remote control or add one or more remote controls up to a maximum of 6. Return the machine, ignition keys and all original remote controls to the dealer along with the Orange code card issued with the system.

-All extra remote controls must be pre coded to the number issued on the orange card issued with the original alarm.

-The remote controls are powered by 2, 3volt, lithium batteries (CR1220) These give a normal life of around 3 years.

-A remote control key conversion kit is available enabling the dealer to combine most ignition keys with the remote control.

-The key conversion kit has location points to fit most types of OE ignition transponder chips.

### **Alarm Diagnostic memories**

Movement sensor	1 pulse on, 3 second pause
Negative input or loop circuit	2 pulses on, 3 second pause
Ignition sensing	3 pulses on, 3 second pause
Self powered (12volt supply removed)	4 pulses on, 3 second pause