



# 7590TK15

## USER MANUAL



Made in Italy

AVS: Rev 08/16

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## **USER MANUAL**

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### **1.0 - PRELIMINARY ADVICE**

Dear customer

The 7590T is a Thatcham alarm unit with dual point immobilization and built-in sensors designed to be used only on vehicles with a negatively grounded 12V battery.

The following signs, intended for the installer or the user, indicate particular functions or connections:



**For the user.**

This sign highlights useful information.

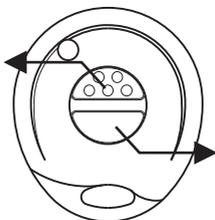
### **2.0 - FUNCTIONS**

- Arming/disarming via random rolling code transmitters.
- Electrical engine immobilizer by passive arming.
- Double engine immobilizer.
- Blinker.
- Siren sound intermittent or continuous (programmable).
- Perimeter protection.
- Volumetric protection (combined with an ultrasonic or hyperfrequency module, excludable during arming).
- Control for CDL, power windows and sunroof (vehicles equipped with Comfort Pack).
- Alarm memory (optical/acoustic signals).
- PANIC or BOOT RELEASE function (programmable).
- Current absorption sensor (programmable).
- Anti-distraction rearming function (programmable).
- Output for self-powered siren or additional siren.

### 3.0 - REMOTE CONTROL OPERATION AND BATTERY REPLACEMENT

#### **BUTTON 1:**

- **COMPLETE SYSTEM ARMING**
- **SYSTEM DISARMING**



#### **BUTTON 2:**

- **SENSOR EXCLUSION**
- **PANIC ALARM OR BOOT OPENING**



The remote control has a low charge battery indicator that gives early warning to avoid malfunctioning. If the batteries are low, the LED will start blinking when a button is pressed.

Use only CR 16161 batteries. Different type batteries can seriously damage the remote control unit. Discard used batteries properly in special dedicated containers.

To replace the battery proceed as follows:

- Separate the remote halves taking care not to damage the internal circuit.
- Remove discharged batteries and insert new ones taking care not to invert the battery polarity.
- Close the remote halves and make sure the remote control works properly.

# USER MANUAL

## 4.0 - OPERATING INSTRUCTIONS

### 4.1 ALARM ARMING

To arm the alarm press remote control button 1 or touch the electronic key to its receptacle. Arming is confirmed by a quick flash of the turn indicators.

The following functions are enabled:

- a) Module output (PINK wire, +A).
- b) Led output.
- c) Engine immobilizer.
- d) Door-lock control with pulse time selected during programming.

If the electronic key is used to arm the system, functions **a)**, **b)** and **c)** will be enabled, whereas **d)** will be disabled to provide time to exit the vehicle without triggering an alarm.

When using the electronic key, there is also an entry delay countdown (approx. 10 sec., LED ON steady) to allow the user to get into the car and disable the alarm via the electronic key without generating an alarm.

### 4.2 - ARMING DELAY, SENSOR and COMFORT EXCLUSION, WINDOW-UP STOP

An arming delay (approx. 45", LED ON steady) provides an exit time to leave the vehicle without generating a false alarm. During the initial 25" of the arming delay countdown, external sensors can be excluded and window roll-up stopped by pressing button 2 on the remote control (NB: window roll-up requires installation of module 2344 or the vehicle must be equipped with Comfort System). A quick flash of the turn indicators will confirm exclusion of sensors/window-up stop/comfort feature.



Sensor exclusion is bound to a single alarm activation cycle.

### 4.3 - SIREN SOUND EXCLUSION WHEN ARMING

This function allows arming the alarm system without any siren sound in case of an alarm event. To exclude the siren, proceed as follows:

- Turn ignition key "ON".
- The LED will turn ON for approx. 0,5 sec.
- While the LED is ON, press remote control button 2.
- The LED will turn OFF.
- To reactivate acoustic signaling, simply arm and disarm the system.



Siren sound exclusion is bound to each single arming cycle.

### 4.4 - TOTAL ARMING AFTER ARMING DELAY

After the 45" arming delay, the alarm system will be fully armed and ready to detect any alarm condition. The LED will flash as follows to minimise power consumption: **LED ON** : 200ms - **LED OFF** : 2sec

## 4.5 - ALARM CONDITIONS

- Wire tamper ( via the self-powered siren).
- Ignition attempt.
- Power drain (if enabled during programming. It can only be used in countries where the use of this sensor is not prohibited).
- Door tamper.
- Boot tamper.
- Bonnet tamper.
- Motion detection by internal ultrasound volumetric sensor.
- Motion detection detected by external sensors (optional, wireless sensor).
- Panic alarm by pressing remote control button 2 (if enabled during programming and only in countries where it is legal to do so). Not available on products for the Dutch market).

**NB:** In order to filter noise and/or undesired signals, IGNITION, DOOR/BOOT SWITCH inputs have a DEBOUNCE time of 200ms. These inputs will therefore generate an alarm cycle only if the incoming signal lasts longer than 200ms.

An alarm event will trigger alarm acoustic signals (if enabled) and the flashing of the turn indicators for up to 30 sec. The LED will turn ON steady.

An alarm event can generate up to 5 alarm cycles, for each input and for each arming cycle, that will last 30 seconds each.



Ignition attempts and wire tamper alarms have no limitations.

## 4.6 - ALARM CYCLE

Alarm events will trigger the turn indicators and the alarm siren for up to 30 sec. according to configuration:

**ADDITIONAL SIREN:** Continuous audible signal for the entire duration of the alarm cycle.

**ORIGINAL HORN:** Intermittent sound, 2" ON - 2" OFF, for the entire duration of the alarm cycle.

The LED will be ON steady.

The alarm cycle can be interrupted without disabling the system by pressing remote control button 2. Optical/acoustic signals will be immediately cut off, and the system will be in "NEUTRAL TIME BETWEEN SUCCESSIVE ALARMS".

To limit acoustic pollution, each input (DOOR/BOOT/BONNET SWITCHES, ABSORPTION SENSOR, INTERNAL VOLUMETRIC SENSOR and EXTERNAL SENSORS) will only trigger the alarm 5 times per activation cycle. Countdown will be reset upon the next disarming of the alarm system or if an IGNITION ATTEMPT alarm is triggered during the same activation cycle.

## 4.7 - NEUTRAL TIME BETWEEN ALARM CYCLES

After the alarm is triggered, but before another alarm cycle starts, there is a 5" interval during which there will be no reaction to alarm events. The LED will be ON steady. Normal flashing will resume at the end of the neutral time.

## 4.8 - ALARM DISARMING

The alarm system can be disarmed by pressing remote control button 1 **OR** by touching the electronic key to its receptacle. Disarming is confirmed by 3 flashes of the turn indicators.

If an alarm event has occurred while the system was armed, it will be signaled by 5 flashes of the turn indicators.

## 4.9 - ALARM MEMORY

Five flashes of the turn indicators, when ignition is turned ON, will indicate an alarm event has occurred while you were away from your vehicle. The last cause of alarm can be identified by observing the status LED and counting the number of flashes.

The flashing sequence will be repeated 5 times. To interrupt, turn ignition key "OFF".

LED SIGNAL	ALARM CAUSE	ALARM CYCLES
★●★	Volumetric sensor	5
★★●★★	Door/boot switches	5
★★★★●★★★★	Bonnet switch/perimeter sensors	5
★★★★★●★★★★★	Absorption sensor	5
★★★★★★●★★★★★★	Ignition attempt	No limitations
★★★★★★★●★★★★★★★	External magnetic contact	5
● LED OFF (2 seconds)	★ LED ON (400ms)	



WIRE TAMPER will not be signaled by the alarm memory because managed by the external self-powered siren.

## TECHNICAL SPECIFICATIONS

<b>Nominal tension</b>	<b>12 Vdc</b>
<b>Nominal supply voltage range</b>	<b>9÷15Vdc</b>
<b>Current absorption @ 12Vdc</b>	<b>&lt; 2mA with system armed and LED flashing</b>
<b>Turn indicators contact capacity</b>	<b>10A at 20°C</b>
<b>Engine block contact rating</b>	<b>8A</b>
<b>Alarm triggering</b>	<b>30 sec.</b>
<b>Max positive current with system armed (+A)</b>	<b>700 mA</b>
<b>Siren output current capacity</b>	<b>3A</b>

## WARRANTY CONDITIONS

This product is guaranteed to be free from manufacturing defects for a period of 24 months from the installation date shown on this warranty, in compliance with Directive 1999/44/CE.

Please fill-in entirely the guarantee certificate included in this booklet and **DO NOT REMOVE** the guarantee label from the device.

The warranty will become void if labels are missing or torn, if the installation certificate is not fully compiled or if the enclosed sale document is missing.

The warranty is valid exclusively at Authorized Gemini Technologies Service Centers.

The manufacturer declines any responsibility for eventual malfunctions of the device or any damage to the vehicle electrical system due to improper installation, use or tampering.

This alarm system is solely intended to be a theft-deterrent device.

## WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) DIRECTIVE

The present device does not fall within the scope of Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE) as specified in art. 2.1 of L.D. no. 151 of 25/07/2005.



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UK Distributors of the Gemini Alarm Systems

AVS reserve the right to effect changes to the product without further notice. E&OE

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