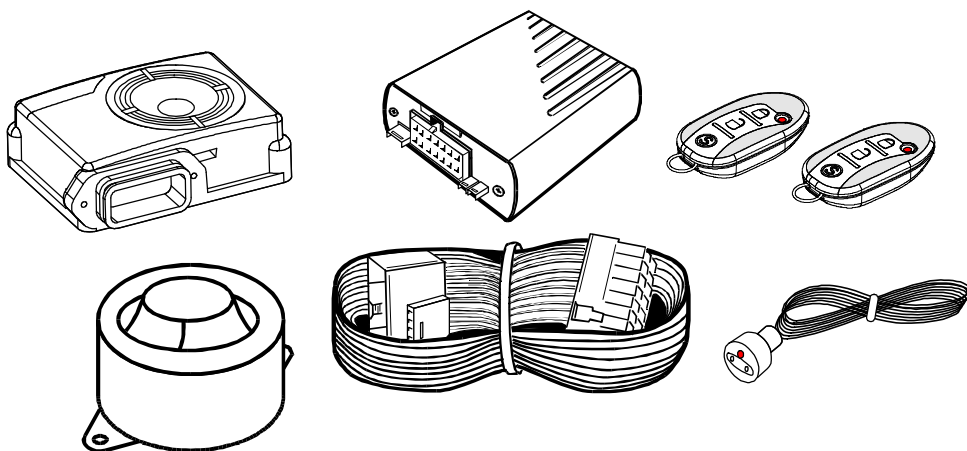




# GT910/911/912/913/914

## USER AND INSTALLATION MANUAL



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# INFORMATION ABOUT THE DISPOSAL OF THE PRODUCT

Acting in accordance with the Legislative Decree 151, 25th July 2005, "Execution of the Directives 2002/95/EC, 2002/96/EC and 2003/108/EC, on the restriction of the use of certain hazardous substances in electrical and electronic equipment, and on the disposal of wastes", results that:

User shall not dispose of this product as unsorted municipal waste and he shall collect it separately, because it is included in the waste electrical and electronic equipment (WEEE).

Consumer has the possibility of returning WEEE to the distributor when he buys a new one, as long as the equipment is of equivalent type and has fulfilled the same functions as the supplied equipment.

An incorrect disposal of the equipment above can cause pollution of the ground and waters, with effects on the human health.

The symbol shown on the package, representative a crossed-out wheeled bin, indicates a separate collect of electrical and electronic equipment.

Producer, distributor and consumer are punished with pecuniary administrative penalties in case of unauthorized disposal of these wastes.

## 1.0 - GENERAL DESCRIPTION

- **GT910:** is a modular remote controlled alarm system equipped with two GT889 handsets with electronic key incorporated for the emergency disarming, with universal central door locking command, perimetric protection for doors/bonnet/boot, engine immobilisation and small dimensions which facilitate the installation.

- **GT911:** same features as GT910 with ultrasonic volumetric protection

- **GT912:** same features as GT910 with ultrasonic volumetric protection and GT843 siren

- **GT913:** same features as GT910 with ultrasonic volumetric protection and GT944 self-powered siren.

- **GT914:** same features as GT910 with ultrasonic volumetric protection and GT945 "radio" self-powered siren.

To all the alarm system abovementioned it is possible to self-code No.12 radio sensors to perform the system (i.e. garage, caravan, motor home protection, etc.).

## **FUNCTIONS SELECTABLE BY THE SYSTEM (DIP SWITCH):**

- 1 - RAPID TEST
- 2 - COMFORT CLOSING
- 3 - INTERMITTENT NEGATIVE OUTPUT IN ALARM / PWM OUTPUT
- 4 - ACOUSTIC SIGNAL WHEN ARMING/DISARMING
- 5 - SINGLE WIRE INDICATORS COMMAND
- 6 - POSITIVE DOORS PIN SWITCH MANAGEMENT
- 7 - DOORS PIN SWITCH POLLING MANAGEMENT
- 8 - POSITIVE BOOT/BONNET DIP SWITCH MANAGEMENT
- 9 - BONNET/BOOT PIN SWITCH POLLING MANAGEMENT
- 10 - GT 945 ANTI-SCANNER SIREN

## OTHER FUNCTIONS:

- Doors double locking
- PANIC function
- ANTI-HIJACK function
- CHECK CONTROL of occurred alarms and anomalies
- Emergency disarming by handset with electronic key incorporated

## 2.0 - INSTALLATION AND CONNECTIONS



### WARNINGS:

- **Complete a pre-installation check and disconnect the negative terminal of the vehicle's battery.**
- **Place the alarm system away from direct sources of water spray and high tension wiring.**
- **Solder and isolate all connections.**

- Connect the **BROWN** wire to the negative terminal of the vehicle's battery or to an earth point inside the passenger compartment (power supply negative).
- Connect the **RED** wire (general power supply positive) to the positive terminal of the vehicle's battery or to a 12 V constant positive inside the passenger by a 5 A fuse.
- **WHITE/RED** wire (indicators relay common): if the function No. 5 SINGLE WIRE INDICATORS COMMAND is **DISABLED** connect to a 12V constant positive present inside the passenger compartment through a 15 A fuse. If the function No. 5 SINGLE WIRE INDICATORS COMMAND is **ENABLED** connect as indicated in the INDICATORS COMMAND DIAGRAM.
- Connect the **YELLOW** wire to an ignition switched live (+15/54) that remains live even when the engine is being cranked.
- **ORANGE** wire (INDICATORS Command): if the INDICATORS COMMAND is **DISABLED** connect to the vehicle right indicators (or to the left). If the INDICATORS COMMAND function is **ENABLED** with this wire is possible to command the indicators (only on the vehicles equipped with this function - See the INDICATORS COMMAND diagram). For the connection refer to the technical installation guides.
- Use the **ORANGE/BLACK** wire (FEEDBACK) only if the Function No.5 SINGLE WIRE INDICATORS COMMAND is **ENABLED** and connect it to the vehicle left (or right) indicators (see INDICATORS COMMAND DIAGRAM).
- Connect the **GREEN** wire to the boot/bonnet pin switches. This alarm input is set up by default to manage the negative stable signals. It is possible to manage also the vehicle original pin switches with negative impulsive signals (polling) enabling the Function No.9 BOOT/BONNET pin switch POLLING management. For the wire connection refer to the installation technical guides. It is possible to manage also the positive stable signals enabling the Function No.8 Positive BOOT/BONNET pin switch. If the Function No.8 is **ENABLED** the selection of the Function No.9 has no effect.
- Connect the **GREEN/BROWN** wire to the original door pin switches. This alarm input is set up by default to manage the negative stable signals. It is possible to manage also the vehicle original pin switches with negative impulsive signals (polling) enabling the Function No. 7 DOORS pin switch POLLING Management. For the wire connection refer to the technical installation guides. It is also possible to manage the positive stable signals enabling the Function No.6 Positive DOORS pin switch management. If the Function No.6 is **ENABLED** the selection of the Function No.7 has no effect.
- Connect the **PINK** wire (Positive output when the alarm is armed - Max capacity 80 mA to the PINK wire of modules or additional sensors (i.e. ultrasonic module).
- **YELLOW/BLACK** wire (negative output when the system is in alarm): if the Function No.3 INTERMITTENT NEGATIVE OUTPUT IN ALARM is **ENABLED** on the wire a negative signal is sent when the alarm system triggers. It can be used to command the vehicle horn relay (see HORN COMMAND diagram). If the Function No. 3 - PWM is **ENABLED** it is possible to connect to the GT 843 siren.
- The **WHITE** and **GREY** wire (Max capacity 7 A) are used for the engine immobilisation either on diesel vehicle or petrol.

- The **RED/BROWN RED/GREY, RED/BLUE, YELLOW/BROWN, YELLOW/GREY** and **YELLOW/BLUE** are to command the central door locking making reference to the indications mentioned in the vehicle technical installation guide.



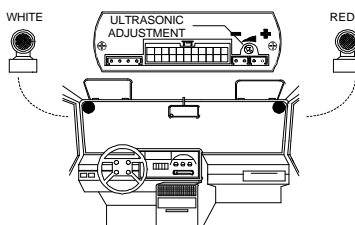
### **WARNING:**

- Always use 5 A fuses on the **RED/BLUE** and **YELLOW/BLUE** wires.
- The max. load to command the central door locking is of 5A. For example, it is not possible to pilot directly No.4 GT actuators (see Diagram No.5).

- Connect the **BLUE** wire to the BLUE wire of the GT 944 siren.
- The **WHITE/GREEN** wire is the aerial.

Place the **RECEPTACLE/LED** on the dashboard (so that it is visible and easily accessible) and connect it to the connector present on the control unit.

- **ULTRASONIC SENSORS:** Install the two ultrasonic sensors on the “A” pillars (see figure). One either side of the windscreen pointing towards a hypothetical point at the centre of the rear window and ensure that between the ultrasonics and the rear window there are no objects (i.e. headrest). Plug the ultrasonics connectors in the module paying attention to their colours: **RED** and **WHITE** (see GENERAL CONNECTION DIAGRAM). Do not cut or lengthen the ultrasonics cables. Plug the 4 pin **BLACK** loom connector in the module. Sensitivity increases if you turn the adjuster clockwise and decreases if you turn the screw anticlockwise.



## **2.1 - GT 843 SIREN CONNECTIONS (Only if the Function No. PWM OUTPUT is ENABLED).**

- 1 - Connect one of the two **BLACK** wires of the GT 843 siren to the **BLUE/WHITE** wire of the control unit.
- 2 - Connect the other **BLACK** wire of the GT 843 siren to the positive terminal of the vehicle's battery with a 5A fuse (power supply positive).

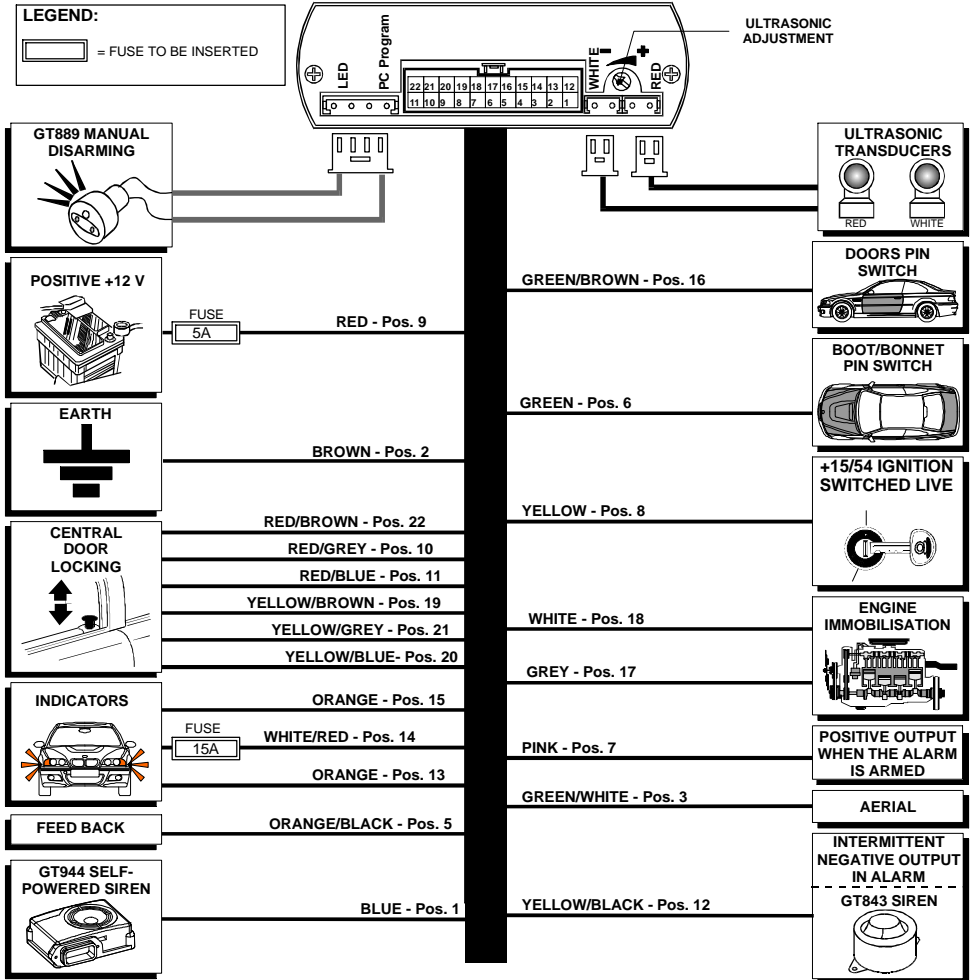
## **2.2 - GT 944 SELF-POWERED SIREN CONNECTIONS.**

- 1 - Connect the **BROWN** wire to the negative terminal of the vehicle's battery (power supply negative).
- 2 - Connect the **RED** wire to the positive terminal of the vehicle's battery with a 5 A fuse (power supply positive).
- 3 - Connect the **BLUE** wire of the siren to the **BLUE** wire of the alarm system.
- 4 - Connect the **GREEN** wire to the vehicle bonnet pin switch or to an additional one. This alarm input is set up by default to manage the negative stable signals. If it is connected to the original pin switches with impulsive negative signals (polling) carry out the following procedure:  
A - Close the bonnet and then place the control unit in Rapid Test mode.  
B - Wait 10 seconds and exit from Rapid Test mode.

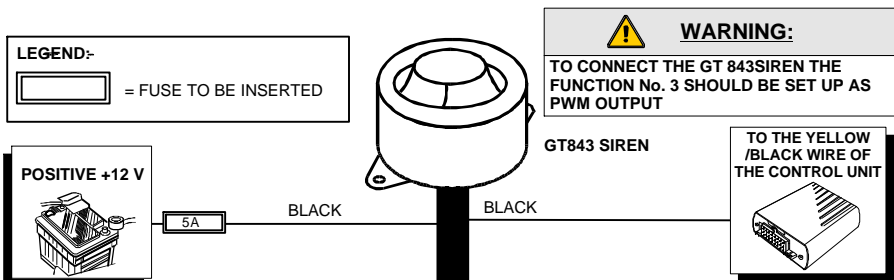
## **2.3 - GT 945 “RADIO” SELF-POWERED SIREN CONNECTION.**

- 1 - Connect the **BROWN** wire to the negative terminal of the vehicle's battery (power supply negative).
- 2 - Connect the **RED** wire to the positive terminal of the vehicle's battery with a 5A fuse (power supply positive).
- 3 - Connect the **GREEN** wire to the vehicle bonnet pin switch or to an additional one. This alarm input is set up by default to manage the negative stable signals. If it is connected to the original pin switches with impulsive negative signals (polling) carry out the following procedure:  
A - Close the bonnet and then place the control unit in Rapid Test mode.  
B - Wait 10 seconds and exit from Rapid Test mode.

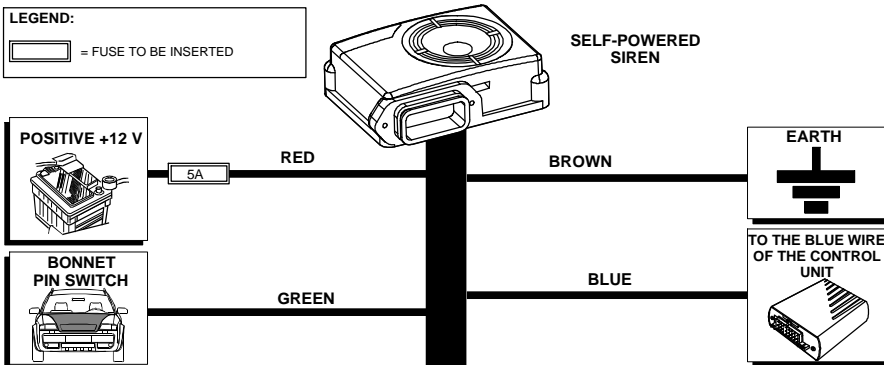
### 3.0 - GENERAL CONNECTION DIAGRAM



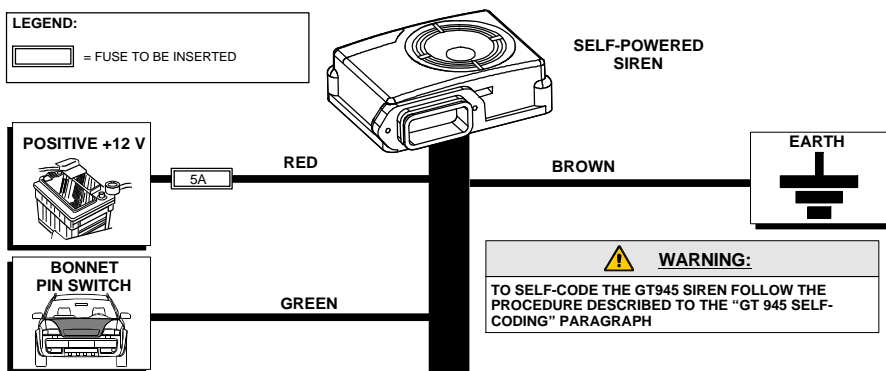
### 4.0 - GT 843 SIREN CONNECTION DIAGRAM.



## 5.0 - GT 944 SELF-POWERED SIREN CONNECTION DIAGRAM

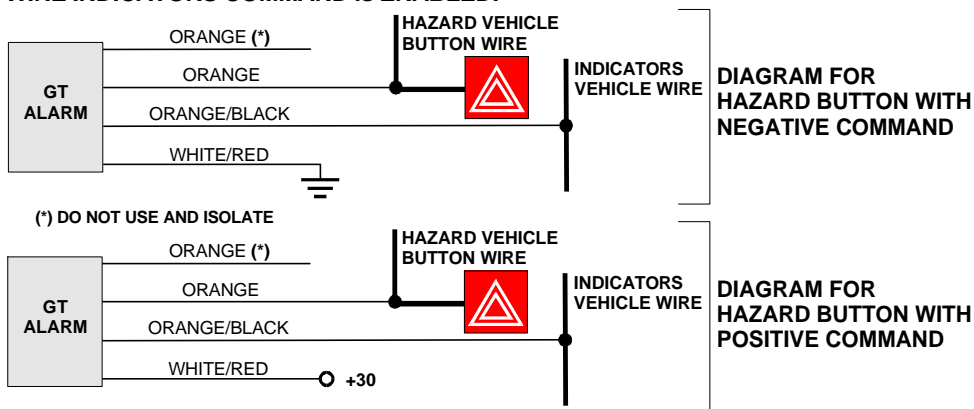


## 6.0 - GT 945 SELF-POWERED DIAGRAM CONNECTION DIAGRAM

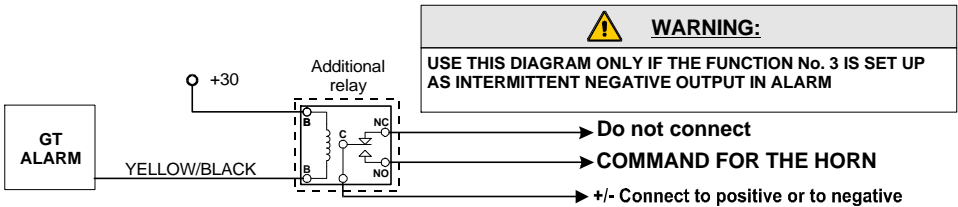


## 7.0 - INDICATORS COMMAND DIAGRAM

- The diagrams undermentioned have to be carried only if the Function No.5 SINGLE WIRE INDICATORS COMMAND is ENABLED.

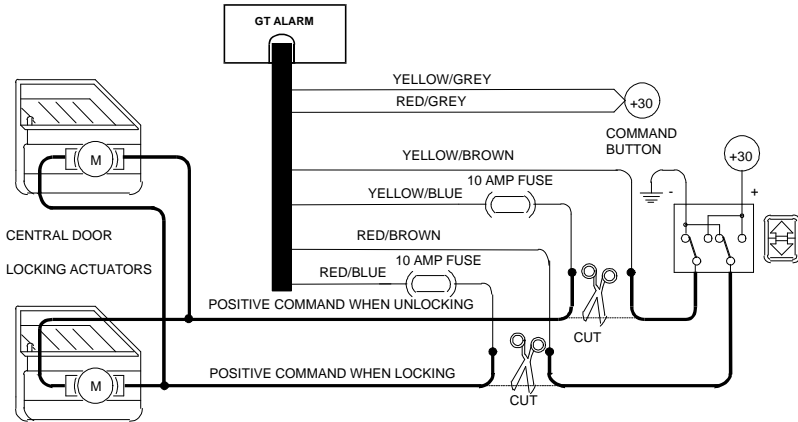


## 8.0 - HORN COMMAND DIAGRAM

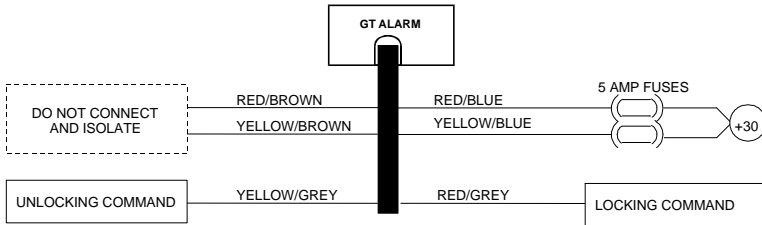


## 9.0 - CENTRAL DOOR LOCKING DIAGRAMS

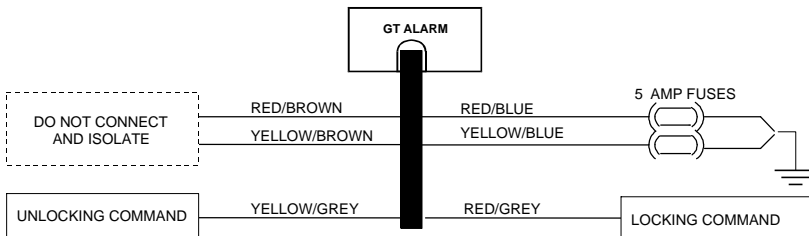
(Unlocking = 1" - Locking = 1")



(Unlocking = 1" - Locking = 1")

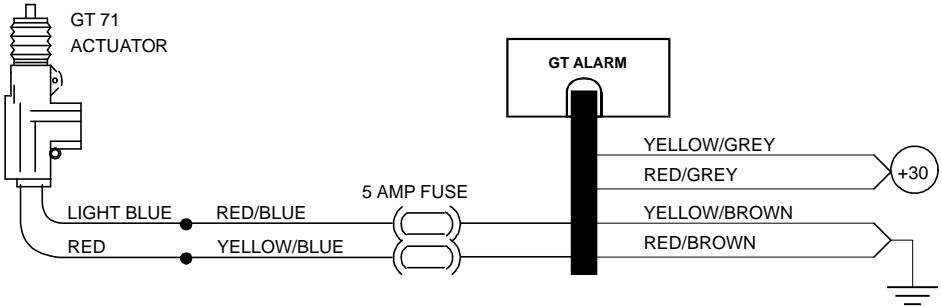


(Unlocking = 1" - Locking = 1")



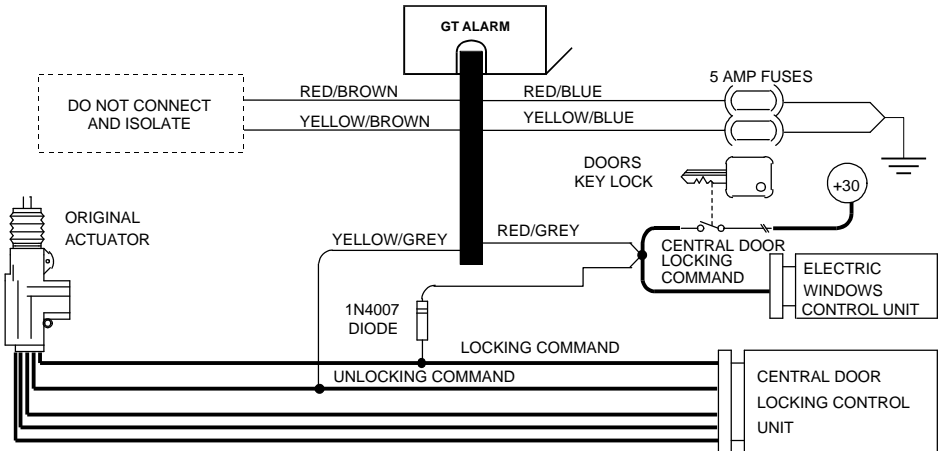
## DIAGRAM No.5

(Unlocking = 1" - Locking = 1")



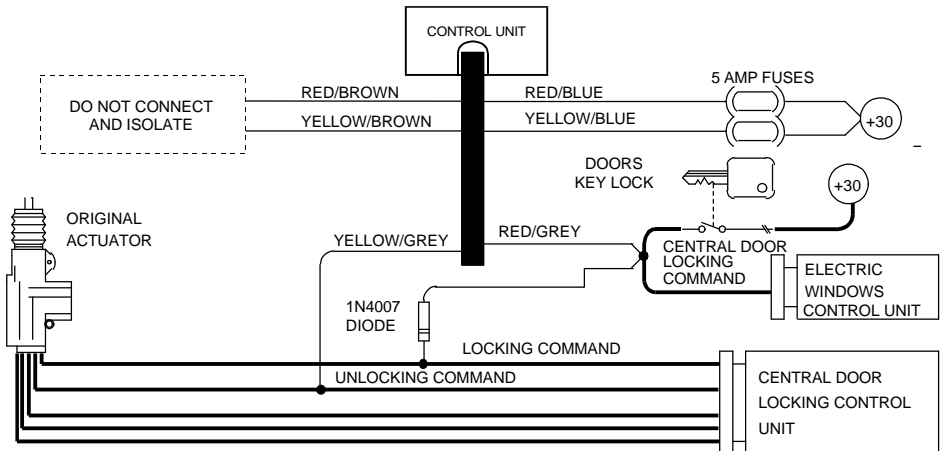
## DIAGRAM No.8

(Unlocking = 1" - Locking = 40")



## DIAGRAM No.10

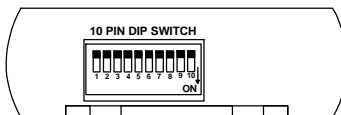
(Unlocking = 1" - Locking = 40")





## 10.0 - FUNCTIONS SELECTABLE BY THE SYSTEM

The system allows to select some functions by a 10 pin dip switch situated in the rear side of the control unit. The selection can be carried out only when the system is disarmed. the control unit reads the dip switch configuration at each ignition switched live (+15/54) activation and deactivation. **To make it operative it is necessary to turn the vehicle ignition key on - off.**



Switch No.	Description	ON	OFF
1	RAPID TEST	ENABLED	DISABLED
2	COMFORT CLOSING	ENABLED 1' unlock - 40' lock	unlock - 1' lock
3	INTERMITTENT NEGATIVE OUTPUT IN ALARM/PWM OUTPUT	PWM Output	NEGATIVE OUTPUT IN ALARM
4	ACOUSTIC SIGNAL WHEN ARMING/DISARMING	DISABLED	ENABLED
5	SINGLE WIRE INDICATORS COMMAND	ENABLED	DISABLED
6	POSITIVE DOORS BUTTON MANAGEMENT	ENABLED	DISABLED
7	DOORS BUTTON POLLING MANAGEMENT	ENABLED	DISABLED
8	POSITIVE BOOT/BONNET PIN SWITCH MANAGEMENT	ENABLED	DISABLED
9	BOOT/BONNET BUTTON POLLING MANAGEMENT	ENABLED	DISABLED
10	GT945 SIREN ANTI-SCAN	ENABLED	DISABLED

### - Function No. 1: RAPID TEST.



#### **WARNING:**

**- Enabling the function the control unit sends a “RADIO” message which is memorised by the GT945 siren. For the self-coding follow the procedure as described to the “GT 945 SIREN SELF-CODING” paragraph.**

With this function it is possible to check the correct installation of the alarm system carrying out a test on all the alarm lines.

When the system is disarmed move the dip switch No. 1 to ON position, turn the vehicle ignition key on and off and check that a long beep is generated.

The signalings generated are the following:

**- Ultrasonic sensor test:** triggering the ultrasonic sensor the system generates No. 1 beep and No. 1 GREEN flash of the LED on the receptacle.

**- Radio sensors test:** triggering the sensor (infrared sensor, magnetic contact, etc.) the system generates 3 beeps and No.3 GREEN flashes of the del LED on the receptacle.

**- DOORS pin switch test:** opening one or more doors the system generates No. 4 beeps and No. 4 GREEN flashes of the LED on the receptacle.

**- BOOT/BONNET pin switch test:** opening the bonnet and the boot the system generates No. 5 beeps and No. 5 GREEN flashes of the LED on the receptacle.

**- Starting attempt test:** turning the ignition key on the system generates No. 6 beeps and No.6 GREEN flashes of the LED on the receptacle.

To come out from the RAPID TEST wait 30 seconds without triggering any alarm line or press the OFF handset button. To confirm the correct operation the system emits a long beep. Move the switch No.1 to OFF position.

### **- Function No. 2: COMFORT CLOSING**

If enabled it allows the automatic windows closing (only for vehicles equipped with this function) providing a closing command with a duration of 40 seconds after 5 seconds from the doors closing.  
Move the dip switch No. 2 to position ON to ENABLE the function.

### **- Function No. 3: INTERMITTENT NEGATIVE OUTPUT IN ALARM / PWM OUTPUT.**

- Dip switch No. 3 to position OFF = the system supplies a negative output during the alarm cycle.  
- Dip switch No. 3 to ON position = the system supplies an output to pilot the loudspeakers (GT 843 sirens) of 4 Ohm.

### **- Function No. 4: ACOUSTIC SIGNAL WHEN ARMING/DISARMING.**

It is possible to disable the acoustic signal (beep) to indicate the alarm system arming and disarming. To make the selection carried out operative, activate/deactivate the GT 944/GT 945 siren beep, it is necessary to enter the RAPID TEST.  
Move the dip switch No. 4 to position ON to DISABLE the function.

### **- Function No. 5: SINGLE WIRE INDICATORS COMMAND.**

If the function is **ENABLED** with a single ORANGE wire it is possible to command the indicators through the original emergency indicators button (only on the vehicles equipped with this function).  
Move the dip switch No. 5 to position ON to ENABLE the function.

### **- Function No. 6: POSITIVE DOORS BUTTTON MANAGEMENT.**

If this function is ENABLED allows to manage the doors contacts which supply a stable positive when the door is opened. If this function is ENABLED the selection of the Function No.7 has no effect.  
Move the dip switch No. 6 to position ON to ENABLE the function.

### **- Function No. 7: DOORS PIN SWITCH POLLING MANAGEMENT.**

If this function is ENABLED allows to manage the negative impulsive signals (polling) on the original doors contacts. The function is DISABLED by default and it allows to manage some negative stable signals.  
Move the dip switch No. 7 to position ON to ENABLE the function.

### **- Function No. 8: POSITIVE BOOT/BONNET PIN SWITCH MANAGEMENT.**

If this function is ENABLED allows to manage the bonnet and boot contacts which supply a stable positive when the bonnet or boot are opened. If this function is ENABLED the selection of the Function No.8 has no effect.  
Move the dip switch No.8 to position ON to ENABLE the function.

### **- Function No. 9: BOOT/BONNET PIN SWITCH POLLING MANAGEMENT.**

If this function is ENABLED allows to manage the negative impulsive signals (polling) on the original bonnet and boot contacts. The function is DISABLED by default and it allows to manage some negative stable signals.  
Move the dip switch No.9 to position ON to ENABLE the function.

### **- Function No. 10: GT 945 SIREN ANTI-SCAN.**

If this function is ENABLED when the system is armed and in case of radio anti-scan attempt after 1 minute the GT 945 siren generates an alarm cycle.  
Move the dip switch No.10 to position ON to ENABLE the function.

## 11.0 - GT 945 SIREN SELF-CODING

- 1 - The alarm must be disarmed.
- 2 - Power the GT 945 siren. The siren emits 3 quick beeps to confirm the SELF-CODING function has been entered.
- 3 - Move the dip switch No. 1 of the control unit to ON position and enter the RAPID TEST.
- 4 - The control unit sends a radio message which the siren memorises and it emits a long beep. The long beep emission confirms also that the siren has entered the TEST mode.



### **WARNING:**

**- In case of vehicle maintenance, taking out the siren power supply for more than 30 seconds, to the following power supply the siren emits 3 beeps and it goes in the SELF-CODING phase. To the first arming/disarming radio message received the siren starts the normal operation again. It is not necessary to carry out a new self-coding.**

## 12.0 - NEW HANDSETS / RADIO SENSORS SELF-CODING



### **WARNING:**

- It is possible to self-code up to a maximum of 8 handsets No.12 radio sensors.**
- When you have entered the function the first handset which is self-coded deletes all the other handsets memorised.**
- If you want to add one or additional handsets you have to self-code all of them.**
- If you try to self-code an handset / radio sensor twice consecutively or the maximum handsets / sensors number has been reached the system emits 3 anomaly beeps.**

- 1 - The alarm must be disarmed.
- 2 - Turn the vehicle ignition key on, put the GT889 handset contacts to the receptacle and check the emission of 1 long beep and the RED LED constant switching on.
- 3 - Turn the vehicle ignition key off.
- 4 - After 5 seconds No.1 beep and No.1 LED flash are emitted.
- 5 - Turn the vehicle ignition key on and off in correspondence to the visual/acoustic signal, the LED illuminates constant.
- 6 - Press the "ON" handset button or the TEST button to be self-coded.
- 7 - The correct handset self-coding by the system is indicated with a flash of the GREEN LED and by a beep, the one of the sensor by a flash of the RED Led.
- 8 - Repeat the procedure described at the point 6 for additional handsets / or sensors to be self-coded.

To come out from the function wait 10 seconds until the emission of a long beep.

### **To delete the radio sensors:**

- 1 - When the system is disarmed turn the vehicle ignition key on and place the GT889 remote control handset contacts to the receptacle, check that 1 long beep is generated and the RED LED illuminates constant. The alarm is in the SELF-CODING mode.
- 2 - While the RED Led is illuminated constant (4 seconds) place the GT889 remote control handset contacts to the receptacle. The Led switches off.
- 3 - Within 10 seconds press the "SERVICES" button of the remote control handset. The deletion is confirming by a flash of the indicators.
- 4 - When the deletion has been carried out turn the vehicle ignition key off.

## SELF-CODING EMERGENCY PROCEDURE.

In case of GT889 handset loss it is possible to enter the SELF-CODING:

**A** - With the alarm system disarmed take out the power supply and wait 1 minute.

**B** - Short-circuit with a metallic body the LED/RECEPTACLE contacts.

**C** - Reconnect the power supply.

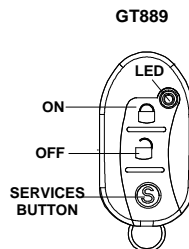
**D** - Turn the vehicle ignition key on and off 4 times, check that a long beep is generated and that the RED LED illuminates constant to confirm that the SELF-CODING has been entered.

**E** - Remove the short circuit between the LED/RECEPTACLE contacts before carrying out the self-coding.

## 13.0 - USER MANUAL

### - HANDSET DESCRIPTION.

**GT889:** 3 buttons handset with electronic key incorporated.



### - ARMING / DISARMING.

#### ARMING by HANDSET.

Press the "ON" handset button, the arming is confirmed by an indicators flash, by a Beep and by the constant switching on of the RED LED for 60 seconds, after it start to flash.

#### ARMING by ELECTRONIC KEY INCORPORATED.

Place the electronic key incorporated in the GT889 handset on the RECEPTACLE, the arming is confirmed by an indicators flash, by a beep and by the constant switching on of the RED LED. The central door locking won't be activated and the first alarm cycle will be anticipated by a sequence of beeps and flashes.

#### DISARMING.

Press the "OFF" handset button or place the electronic key incorporated in the handset on the RECEPTACLE, the disarming is confirmed by two indicators flashes, by two Beeps and by the LED switching off (the system emits 4 flashes and 4 beeps if during the "surveillance" an alarm has been detected).

### - ADDITIONAL MODULES, ULTRASONIC AND INFRARED RADIO SENSORS EXCLUSION.

In the first 5 seconds after the system arming signalling (No.1 indicators flash and No.1 beep) press the "ON" remote control handset button.

### - IN CASE OF ALALRM.

- Press the "OFF" button to disarm the system.

### - DOUBLE LOCKING.

In the first 5 seconds after the system arming signal (No.1 indicators flash and No.1 beep) press the "SERVICES" handset button.

### COMFORT CLOSING.

If the function is ENABLED, on the vehicles equipped with this function, the windows closing occurs automatically. In case of additional modules or ultrasonic isolation, it is possible to pilot the windows closing pressing the handset "SERVICES" until the desired position is reached or until the total closing.

## - PROTECTIONS

When the system is armed the status check LED illuminates constant on, after 30 seconds the LED flashes. The **ignition key** protection is active **5 seconds after the arming**, while the **door, bonnet/boot pin switch / radio sensors and ultrasonic (only for GT 911 / 912 / 913 / 914)** are active when the **status check LED flashes**. In case of system arming/disarming with bonnet/boot/doors opened, the siren emits a long beep. **WARNING:** if the GREEN wire has been connected to the GT 944/GT 945 siren in case of system arming/disarming with bonnet opened the siren emits 5 anomaly beeps.

## - ANTI-HIJACK.

This function allows to block the vehicle in case the user is forced to leave it ( theft attempt). The operation occurs **only by the GT889 handset enabled for ANTI-HIJACK**.

- 1 - With the ignition key on press the GT889 "SERVICE" handset button.
- 2 - An indicators flash and the GREEN LED switching on to confirm that the ANTI-HIJACK function has been activated.
- 3 - After 15 seconds the indicators start flashing.
- 4 - After other 15 seconds the system emits an alarm cycle with a duration of 30 seconds. If the ignition remains on another alarm cycle is generated.
- 5 - When the ignition is off the engine immobilisation is activated and it stops the vehicle starting. An alarm cycle will be generated by attempting to start the vehicle.
- 6 - To come out from the anti-hijack state, from any phase, it is necessary to have the same GT889 remote control handset which has activated the function and press the "SERVICE" handset button. The operation will be confirmed by two flashes of the indicators, two Beeps of the siren and by the LED switching off.

### ENABLE/DISABLE THE ANTI-HIJACK FUNCTION:

- 1 - Open the GT889 remote control handset, remove the battery and wait the led signalling.
- 2 - Press the "OFF" button and close the remote control handset.
- 3 - Keeping the "OFF" button depressed insert the battery in the remote control handset and wait the led signalling.
- 4 - If the led remains illuminated constant the function is **ENABLED**, if the led flashes the function is **DISABLED**.
- 5 - Release the "OFF" button and close the remote control handset.
- 6 - To change the function state repeat the procedure from the point 1 (at each repetition of the procedure the function changes state).

## - PANIC FUNCTION.

- When the system is armed press the "ON" button for one second, a sound alarm starts with the contemporaneous flash of the indicators.
- Press the "ON" button a second time to stop the panic.

## - EMERGENCY DISARMING.

In case of emergency (i.e. handset battery discharged) it is possible to deactivate the system putting on the RECEPTACLE the electronic key incorporated in the GT889 handset.

## - ALARMS CHECK CONTROL AND ANOMALIES.

LAST ALARM CAUSE: if during the armed state an alarm has been detected (4 indicators flashes and 4 beeps to the disarming) it is possible to check the cause. When the alarm is disarmed turn the vehicle ignition key on and check the LED flash as indicated in the ALARMS SIGNALLINGS TABLE.






**Note 1:** the alarms generated by the GREEN wire (BONNET Protection) of the GT944 / GT945 siren are not indicated by the status check LED but by the 4 beeps when disarming the system.



**Note 2:** the alarm generated by the GT 945 siren for anti-scan are not indicated.



### ANOMALIES SIGNALLING:

- **Vehicle low battery signalling:** when disarming with the handset, if the vehicle battery is at 11,6V doesn't activate the indicators and after the normal acoustic signalling emits 5 anomaly beeps.

- **Door open signalling when arming:** the system emits a long beep and a long indicators flash.
- **Handset low battery signalling:** when the system is disarmed turn the vehicle ignition key ON and the system emits some flashes of GREEN and RED colour without pauses (See VISUAL ANOMALIES SIGNALLINGS TABLE ).
- **Radio sensors low battery signalling:** when the system is disarmed turn the vehicle ignition key on; the system emits No.3 flashes of the GREEN LED for 10 times (See VISUAL ANOMALIES SIGNALLINGS TABLE).


ALARMS SIGNALLINGS TABLE		
Status check LED flashes number		Input which has generated the alarm
<div> <div>RED</div> <div>1 </div> </div>	+	PAUSE
ADDITIONAL MODULES INPUT		
<div> <div>RED</div> <div>3 </div> </div>	+	PAUSE
RADIO SENSORS		
<div> <div>RED</div> <div>4 </div> </div>	+	PAUSE
DOORS PIN SWITCH		
<div> <div>RED</div> <div>5 </div> </div>	+	PAUSE
BOOT/BONNET PIN SWITCH		
<div> <div>RED</div> <div>6 </div> </div>	+	PAUSE
VEHICLE INSTRUMENT PANEL		

VISUAL ANOMALIES SIGNALLINGS TABLE	
Status check LED flashes number	Input which has generated the alarm
<div> <div>RED / GREEN</div> <div></div> </div>	REMOTE CONTROL HANDSETS BATTERY
<div> <div>GREEN</div> <div>3 </div> </div>	RADIO SENSORS LOW BATTERY

SYSTEM STATE TABLE	
LED Colour	State
<div> <div>RED</div> <div></div> </div> <div>Constant on</div>	SYSTEM IN PHASE OF ARMING
<div> <div>RED</div> <div></div> </div> <div>Slow flash</div>	ARMED SYSTEM


**LEGEND:**

COLOUR

N 


N = Flashes No.  
COLOUR = Flash colour

RED/GREEN




Flashes without pause

COLOUR



FLASHING LED

COLOUR



LED CONSTANT ON



**WARNING:**

- The signals sequence of occurred alarms and anomalies detected is repeated at each vehicle ignition key switching on.
- The alarms system memory is deleted to the following alarm system arming.
- When the anomaly is solved, the memory is automatically deleted.

## 14.0 - MAINTENANCE AND WARNINGS

### MOTOR VEHICLE WASHING.

It is necessary to pay particular attention to any source of water spray. It is advisable, during this operation to protect it with a covering (i.e. cellophane).

### - FUNCTIONS CHECK.

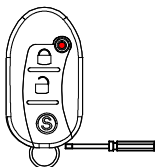
To have an always efficient system it is advisable to carry a periodic check of all the functions.

### - HANDSET.

Do not expose the handset to excessive heat sources, water and shocks. For the battery replacement refer the picture below.

The battery selling off has to always occur in appropriate way and it has to be in compliance with the local rules in force.

## - HOW TO REPLACE THE HANDSETS BATTERY



- With care lever the front case for the printed circuit



### WARNING!

- The battery positive terminal has to be pointed upwards.
- Replace with a Lithium battery Mod. CR2032 (3V)

**WARNING:** the batteries selling off has to always occur in appropriate way and it has to be in compliance with the local rules in force.



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## 15.0 - COMPLIANCE DECLARATION

Getronic S.r.l. Via Calcinatè, 12 Gavirate, Italy hereby declares that **GT910/911/912/913/914** are in compliance with:

R&TTE 1999/5/CE (including the directives: 95/54CE)

All Getronic products are compatible with the vehicle's original electronic systems.

The **GT889** handset is in compliance with the following European Directives:

EMCC DR. RASEC "Notified Body 0678"

R&TTE 1999/5/CE (including the directives: EN 300 220 - EN 60950)

The President  
Danilo Restelli

Varese, 7 April 2005

## 16.0 - TECHNICAL DATA

- Power supply voltage:	9-16V
- Working temperature:	-40° / +85°
- Max voltage applicable:	36V/1minute
- Current when the alarm system is disarmed:	<12mA.
- Current when the alarm system is armed:	<16mA.
- Current in the alarm state:	<100mA
- Max current for engine immobilisation:	7A.
- Max current for central door locking:	5A
- Max current Indicators outputs:	5A.
- Max current Led output:	25mA.
- Max current positive output:	80mA.
- Transmission frequency:	868 Mhz

### GT843/GT944/945:

- Power supply:	9V ÷ 15 VDC
- Current draw (not in alarm):	< 1 mA
- Sound power:	>110 dB @ 1m
- Working temperature:	from -40 °C to +85 °C
- Receiver frequency (only for GT 945):	868,3 Mhz
- Self-power supply (only for GT 944/945):	

The siren is equipped with Ni-Mh rechargeable battery.  
The recharge time is about 14 hours with the engine on.

## 17.0 - WARRANTY CONDITIONS

- This Certificate should be kept in a safe place and produced for verification should technical assistance be required. Inability to produce this Certificate may affect your warranty rights. Warranty period begins from date of purchase and is valid for 24 months.

Should technical assistance be required during the warranty period, you should take your vehicle and this Certificate to either the original installer or the nearest GT Auto Alarm Service Centre for inspection. Should any part of the security system be found to be defective, and providing all component parts of the system are of GT Auto Alarm manufacture, the defective part will be replaced or repaired free of charge. Warranty replacement/repair does not include the following items:

1) damage caused in transit/carriage;

2) damage caused by incorrect or poor installation; problems which may be caused by anomalies in the vehicle's electrical system or originating from the environment in which the system is operated. 3) damage caused by carelessness, negligence, misuse or repair by unauthorised personnel.

Units returned to our organisation under the terms of the warranty will be replaced or repaired within a reasonable time period according to our Company requirements.

Any repair/refurbishment received within the warranty period does not extend or renew the warranty itself.

Nobody is authorized to modify or replace anything in verbal or written format which alters the conditions of this warranty.

The manufacturer reserves the right to modify or improve the specification.

The alarm only defects burglary attempts. Our company cannot accept liability for any consequential damage or loss to persons or property as a result of purchase of a GT Auto Alarm system.

Any correspondence for litigation purposes shall be received at our headquarters in Gavirate (Varese) - Italy.

<b>Installation Certificate</b> We certify that the alarm system installation has been carried out following these fitting and that the technical data has been handed over.		<b><u>Warranty coupon</u></b> <b>Alarm model</b>
<b>ALARM MODEL:</b>	<b>INSTALLATION DATE:</b>	<b>INSTALLED ACCESSORIES:</b>
<b>POSSIBLE INSTALLED ACCESSORIES:</b>	<b>STAMP AND INSTALLER SIGNATURE:</b>	<b>INSTALLATION DATE:</b>
<b>MAKE AND CAR MODEL:</b>		<b>STAMP AND INSTALLER SIGNATURE</b>

