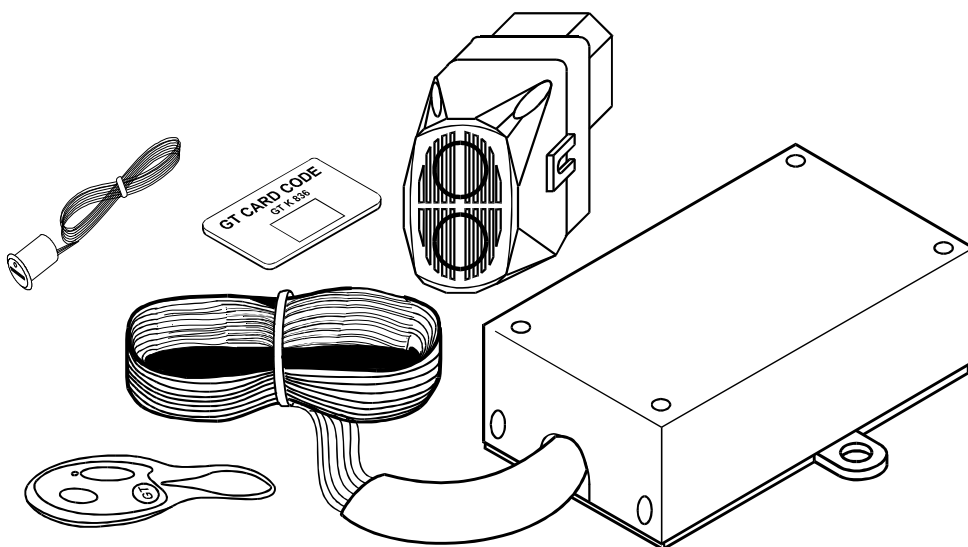




GT K 836

INSTALLATION MANUAL



Homologated



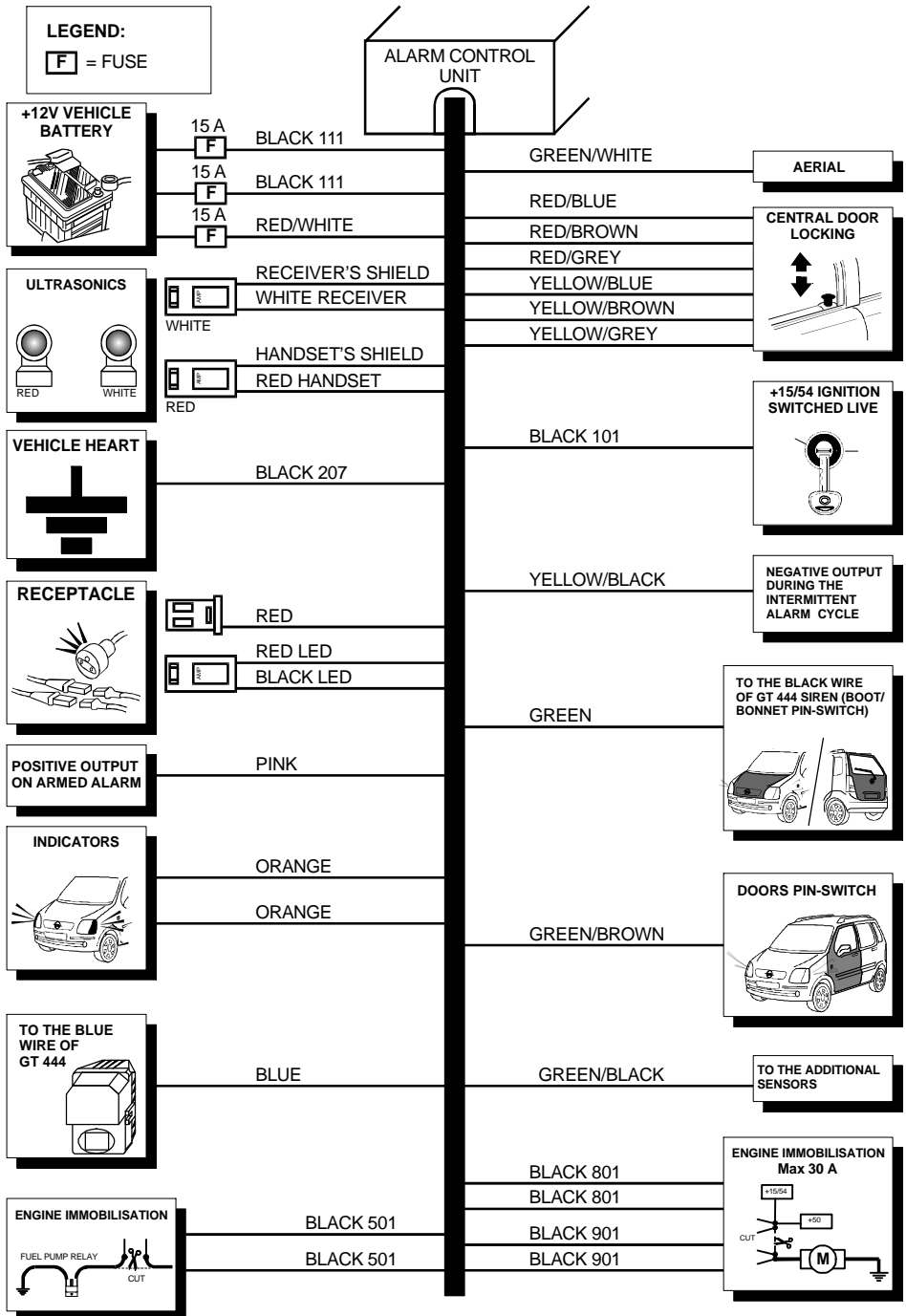
SUMMARY

1.0 - KIT COMPOSITION	pag.2
2.0 - GT 636 QINSTALLATION DIAGRAM	pag.3
3.0 - GT 444 CONNECTION DIAGRAM	pag.4
4.0 - TABLE SET FUNCTIONS	pag.4
5.0 - C.D.L. DIAGRAMS	pag.5
6.0 - INSTALLATION	pag.7
7.0 - CONNECTIONS	pag.7
7.1 - GT 636 Q Connections	pag.7
7.2 - GT 444 Connections	pag.8
8.0 - OPERATION RAPID TEST	pag.9
9.0 - FUNCTIONS PROGRAMMING	pag.10
10.0 - USER MANUAL	pag.11
10.1 - System operation	pag.11
10.2 - New remote control handsets request	pag.13
11.0 - CHANGING BATTERY OF THE REMOTE CONTROL HANDSET	pag.14
12.0 - COMPLIANCE DECLARATION	pag.14
13.0 - WARRANTY CONDITIONS	pag.15
14.0 - TECHNICAL DATA	pag.16

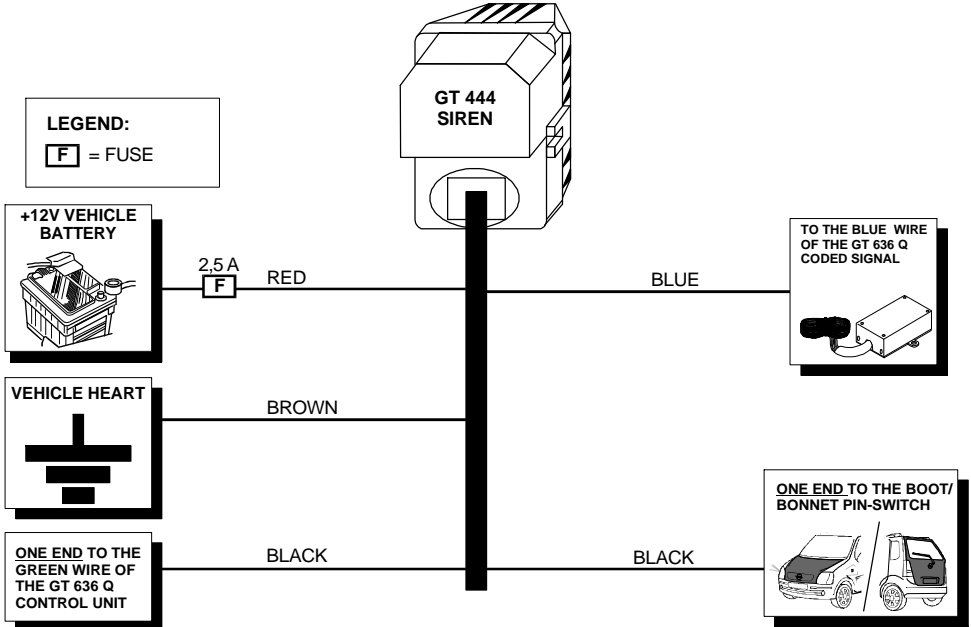
1.0 - KIT COMPOSITION

- No. 1 GT 636 Q (alarm control unit)
- No. 1 GT 444 (electronic siren)
- No. 2 GT 482 (remote control handset)
- No. 1 GT 636 loom
- No. 1 GT 444 UK loom
- No. 1 receptacle
- No. 1 GT CARD CODE
- No. 1 Installation manual
- No. 1 Installation certificate
- No. 1 case of fuses
- No. 1 couple of ultrasonics
- No. 1 case of fixing screws
- No. 1 bonnet switch
- No. 1 GT 444 siren fixing bracket

2.0 - GT 636 Q INSTALLATION DIAGRAM



3.0 - GT 444 INSTALLATION DIAGRAM



4.0 - SET FUNCTIONS TABLE

SET FUNCTIONS TABLE				
No.	Function	No. LED Signallings	LED ON	LED OFF
3	Central door locking timing	2	1 second (*)	40 seconds
6	Opened doors signalling	6	Enabled (*)	Isolated
10	Enabling double unlocking	10	Enabled	Isolated (*)
11	Enabling double locking	11	Enabled	Isolated (*)

WARNING:

The programmings with (*) in “bold” are pre-coded by the factory; in case you wish modify them, proceed as follows:

- To enter in the set function programming open the bonnet and the door, turn the ignition key ON and place the remote control handset pins in contact with the receptacle.
- With the A push-button you move to the functions list.
- With the B push-button you can toggle the function status (Enabled or Isolated) which is visualized by check status LED (ON = Enabled - OFF = Isolated).
- To come out from the set function programming switch the ignition key off (for further explanations, refer to the text in the following pages).

5.0 - CENTRAL DOOR LOCKING DIAGRAMS

DIAGRAM No.3

(Unlocking = 1" - Locking = 1")

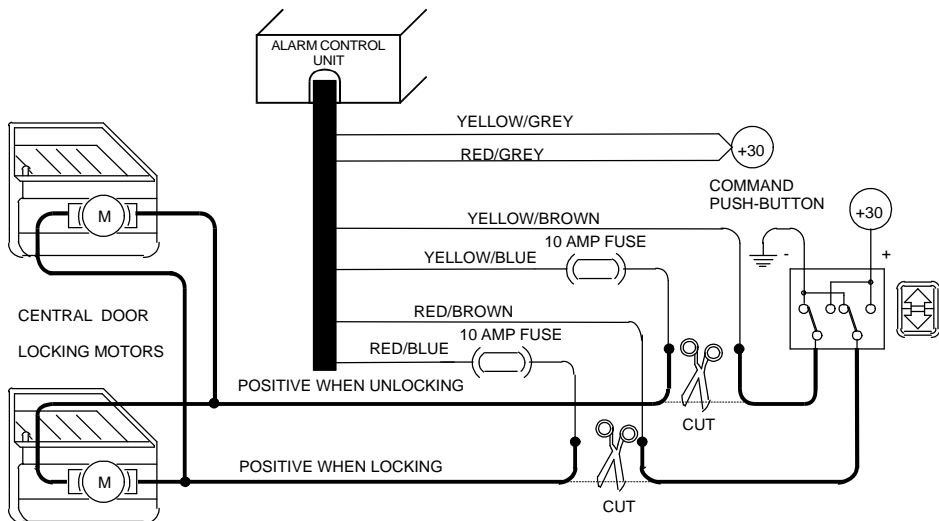
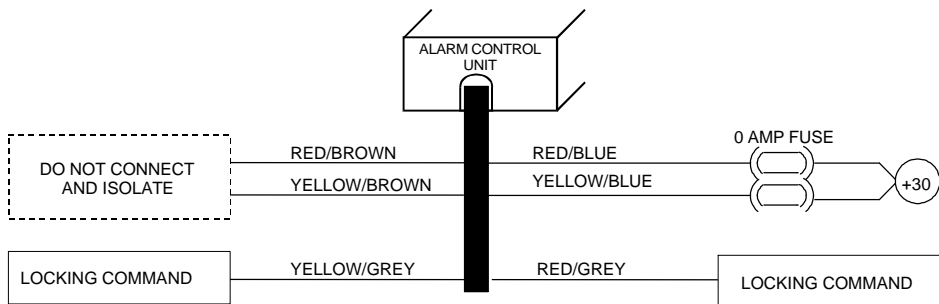


DIAGRAM No.4/A

(Unlocking = 1" - Locking = 1")



For vehicles equipped with a positive command actuator in the driver's door (Renault etc.).

DIAGRAM No.5

(Unlocking = 1" - Locking = 1")

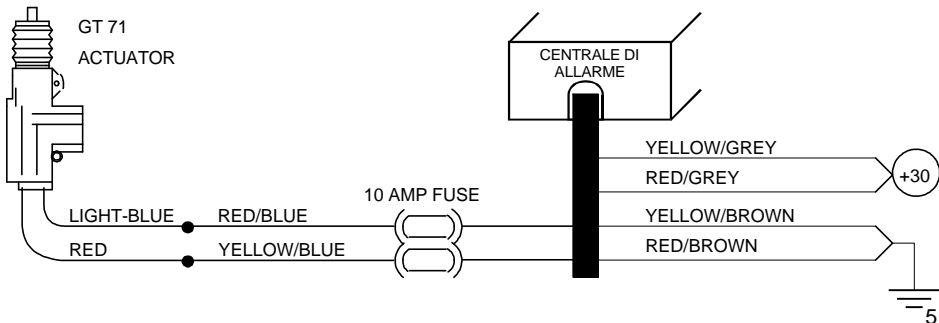


DIAGRAM No.10

(Unlocking = 1" - Locking = 1")

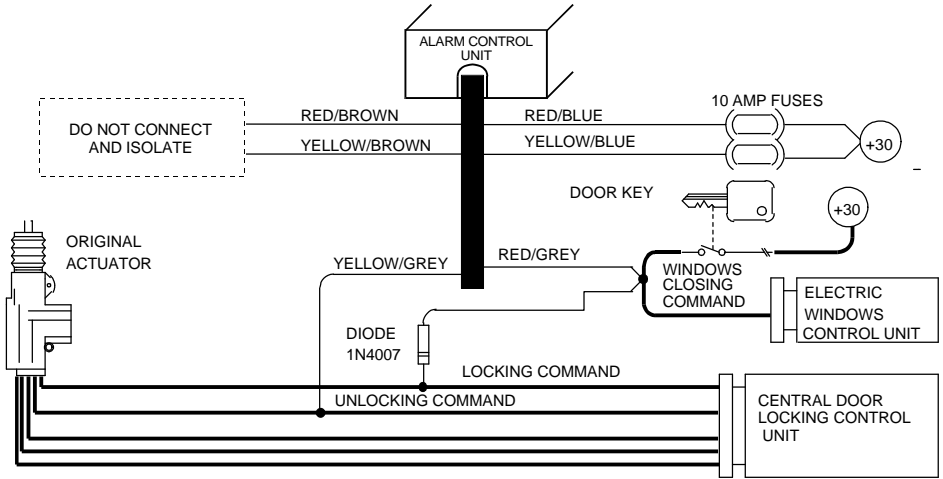


DIAGRAM No.4/B

(Unlocking = 1" - Locking = 1")

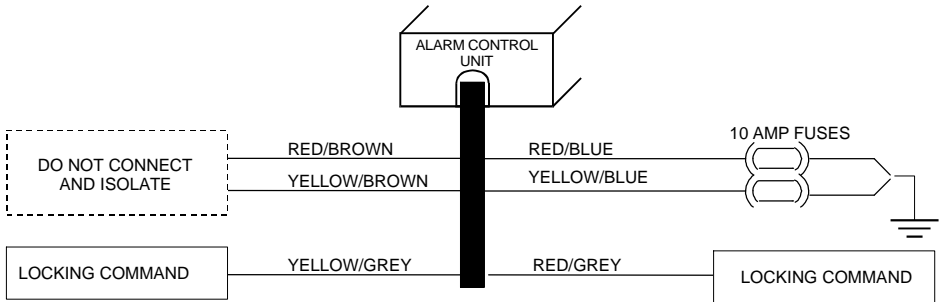
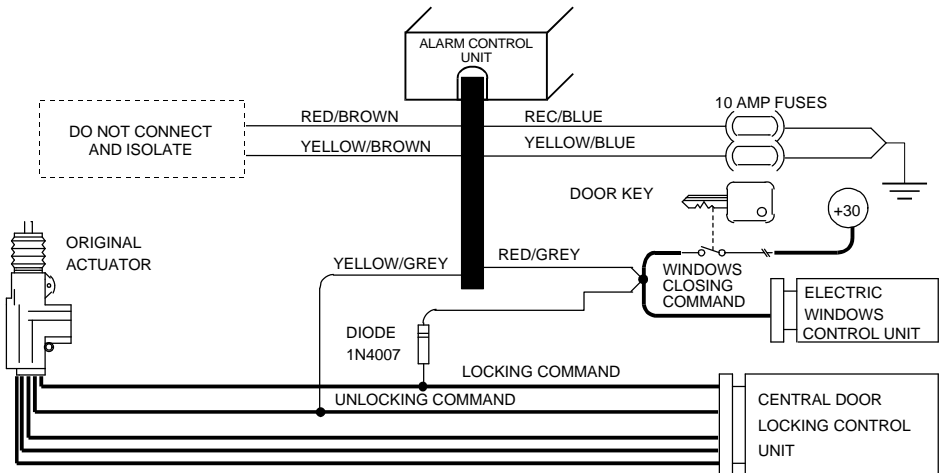


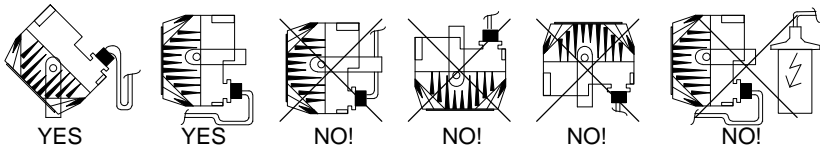
DIAGRAM No. 4/B

(Unlocking = 1" - Locking = 1")



6.0 - INSTALLATION

- We suggest to solder all connections.
- Mount the control unit in the passenger compartment.
- When you install the siren GT 444, mount the alarm away from direct sources of water spray and high tension wiring.
- Drill a hole on the dashboard (12,5 mm diameter), if possible in a visible /comfortable position. Here you will install the Check control LED which is used to disarm the system in case of emergency.



7.0 - CONNECTIONS

7.1 - GT 636 Q CONNECTIONS

WHITE/GREEN wire: is the receiving aerial, separate it from the other loom wires. It must not be cut or coiled.

Wires 207: to O/E vehicle earth.

Wires 111 : to a permanent 12 volts supply (use the supplied 15 Amp fuse). Connect this wire to the positive terminal of the vehicle's battery.

BLUE wire: is a coded output for the additional siren command; connect the BLUE wire to the BLUE wire of GT444 siren.

YELLOW/BLACK wire: intermittent negative output during the alarm for the connection to an additional siren or for commanding the horn through an additional relay. (Max Current 1A @ 25°C).

PINK wire : positive output when alarm is armed. Used to command additional modules and sensors (electric windows modules, ultrasonic, shocks/voltage drop, microwave, etc.). (Max Current 80mA @ 25°C).

GREEN/BLACK wire: alarm input for additional sensors. Connect it to the GREEN/BLACK wire of additional sensors.

GREEN wire: to the black wire of GT444 siren, connect to the bonnet switch and to the boot switch, provided that they are switched earth only.

GREEN/BROWN wire: to the existing door pin switches, provided that they are switched earth only.

WARNING:

The **GREEN** and **GREEN/BROWN** wires must be connected to allow the correct performance of these functions
“Automatic arming”, “Courtesy-light arming”, “Opened doors signalling”, “Programming functions” and “rapid functions test”.

Wires 101: is the ignition switched live (+15/54). Connect to an ignition switched live that remains live even when the engine is being cranked. Do not connect to the load side of the engine immobilisation cut.

ORANGE wires: to the left and right hand indicators.

801-901 wires: starter motor on either diesel or petrol vehicles following the descriptions mentioned in the installation diagram. (Max current 10A).

Wires 501: engine immobilisation on either diesel or petrol vehicles following the descriptions mentioned in the installation diagram. (Max current 10A).

RED/WHITE wire: connect to a permanent 12 volt supply.

Receptacle with LED (with LED functions and emergency key for receptacle): insert the plugs in the respective wiring loom connectors.

TRANSDUCERS: Install the two ultrasonic sensors (RED (transmitting) and WHITE (receiving) at the top of the "A" pillars, one to the right and one to the left (see diagram on page No.3). To obtain the optimum driver and passenger compartment coverage, point the sensor towards the rear window and parallel to the vehicle's long side, ensure that between the ultrasonics and the rear window there are no objects (i.e. headrest). Plug the connectors into the control unit wiring loom, paying attention to their respective colours: RED to the right and WHITE to the left (see figure). Reversing these connections will create false alarms. Do not cut or lengthen the ultrasonics cables.

7.2 - GT 444 CONNECTIONS

BROWN wire: to the negative terminal of the vehicle's battery.

RED wire: to the positive terminal of the vehicle's battery

BLU WIRE: To the BLUE wire of the alarm combined with the siren.

Insert the 4 pin wired connector and the relative protection rubber in the siren.

BLACK wire: connect one end to the GREEN wire of the GT 636 Q control unit and the other one to the bonnet pin-switch.

When the installation has been completed, reconnect the negative terminal of the vehicle's battery and proceed to the "RAPID TEST" to check the correct alarm installation.

8.0 - OPERATION RAPID TEST

- A) Open bonnet. Leave it open for 5 seconds. Press and release 5 times the bonnet pin switch (GREEN wire) and wait for some seconds.
- B) To confirm you are in the "Rapid test" you will hear 3 acoustic signalling and see indicators flashing 3 times. Then close the bonnet to carry out testing.

Note: If a GT 466 or GT 467 has been connected, windows will close.

Boot/Bonnet/Doors test: when opening you will obtain an acoustic signalling and the indicators will flash once.

Ignition key test: when the ignition key is ON indicators will flash once.

Ultrasonics test: Remove all possible items that may create a false alarm through movement inside the vehicle. Close all the doors and windows leaving just enough room through one window to introduce a hand/arm. Put your arm through the gap and move it around. The indicators will flash once. Sensitivity increases if you turn the adjuster clockwise and decreases if you turn the screw anticlockwise. **NOTE:** This operation is important not to have false alarms. To check that it is not oversensitive, thump the front and rear windows with your hand (care should be taken not to damage the windows). The alarm should not be triggered by this thumping.

Additional modules test: if volumetric sensors have been installed (microwave), voltage drop and or tilt-sensor follow the related fitting instructions. If they are activated, the indicators will flash once.

When the test has finished, to come out from this function, press the **A** handset **push-button** and a long acoustic signalling will confirm it.

WARNING:

- After 2 minutes from the last sensor checked, system comes out from the test condition and it generates a long acoustic signalling. To restart test, it is necessary to disconnect the 10A fuses located on the BLACK 111 wire of the control unit (+12V). Wait at least 30 seconds; replace the fuse and repeat the operations A and B to repeat the test again.

9.0 - FUNCTIONS PROGRAMMING

Note:

The alarm system must be disarmed (LED off).

- A) Leave bonnet and driver's door opened.
- B) Turn the ignition key ON and leave it switched on for the whole procedure.
- C) Touch with the remote control handset plugs the LED pins receptacle for at least 2 seconds.
- D) The LED on the receptacle switched on and an acoustic signal from the siren to confirm entering "Programming".
- E) From this moment, the system is in the *"Remote control handsets self-coding"* (see Table Set Functions).
- F) Press the **A push-button** to move to the next programmable function (which is No.3).
- G) At this point the alarm system will visualise the selected function through 3 LED flashes on the receptacle and 3 acoustic signalings (Function No.3). Just after a few seconds from the signalling the function status will be shown on the receptacle (LED On = Inserted, LED Off = Isolated). The whole sequence will be repeated every 5 seconds.
- H) To change the selected function status (from ON to OFF or vice versa) press the **B push-button** while the alarm system is visualizing the function status (ON or OFF for 5 seconds). If the LED was switched on it will switch off and vice versa.
- J) When you reach function No.11, a further press on the A push-button will re start the programming procedure from the function No.2 .
- K) When the programming has been completed, turn the ignition key OFF.

WARNING:

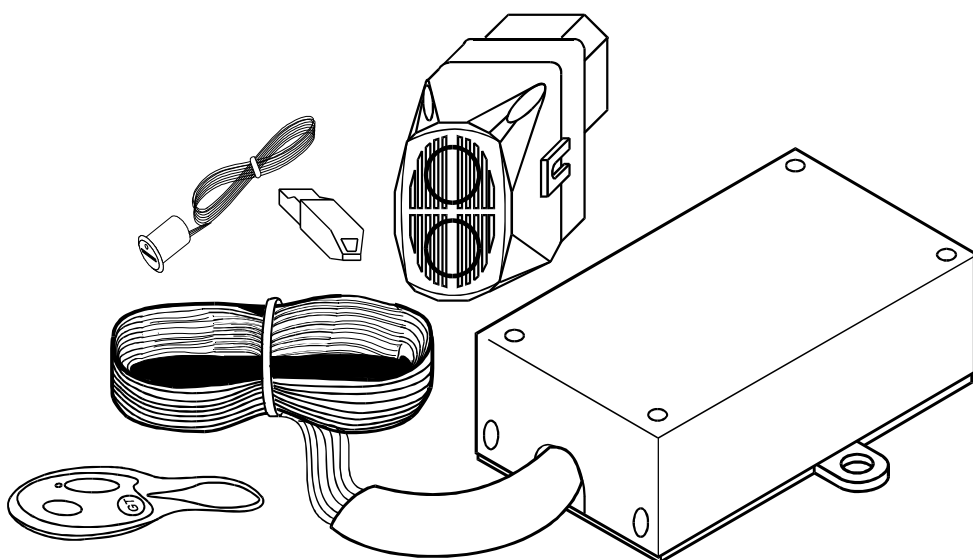
- **during the functions selections to be programmed do not consider the intermediate functions, but only those mentioned in the Table Set Functions.**
- **When you wish to end the functions programming, turn the ignition key off. The siren generates a long acoustic signal. To reactivate the function programming, turn the ignition key ON again and continue from the point C.**

- I) Pressing the A push-button during the status signalling, you pass to the following function (3,4,5...) with the signalling as indicated in the **point G**. The number of flashes and the acoustic signal will correspond to the selected function number as indicated in the Table Set Functions.

The control unit will automatic comes out from the functions programming 2 minutes after the last operation. It will be confirmed by the LED on the receptacle (switched OFF) and by a long acoustic signal.

GT K 836

USER MANUAL



10.0 - USER MANUAL

10.1 - How the system operates (Owner)

1) GT482 Remote control handset

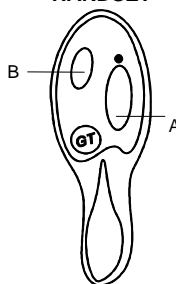
It is necessary to use one of the supplied remote control handsets to have access to the functions of your alarm.

Each remote control handset is equipped with an extremely “secure rolling code”, 2 push-buttons (A and B for “Radio transmission” and the override pins to switch off the alarm in case of emergency).

A Push-button: to arm/disarm the system, isolate temporarily accessories / modules / features.

B Push-button: to activate the “Panic” facility, to isolate temporarily some features.

REMOTE CONTROL
HANDSET



2) Alarm arming

Press the **A push-button** for a second, the indicators will flash and the siren will beep once, the “engine immobilisation” will be activated and after 2 seconds doors will be locked. After 60 seconds, the LED on the dashboard will start flashing. If the electric windows are connected, they will close and the additional modules will be activated.

3) Disarming the alarm.

Press the **A push-button**, the indicators will flash and the siren will beep twice, the “engine immobilisation” will deactivate, the doors unlock and the LED on the dashboard will switch off.

Note: If an alarm has occurred, to the disarming you will obtain 4 flashes and 4 acoustic signals, the LED on the dashboard will alert us with some flashes on the cause of the occurred alarm (see paragraph 14 “Check control of occurred alarm”).

4) “Panic facility”

This facility can be used either with alarm armed or disarmed. Pressing B push-button siren will sound. To stop panic facility press the B push-button again.

Note: If you have disconnected additional sensors (see paragraph 8), when the alarm is armed, the panic facility will be only operational after 40 seconds.

5) Re arming of engine immobilisation

If this facility has been selected, engine immobilisation will re arm automatically :

- 10 minutes after switching ignition OFF
- 1 second after switching ignition OFF and opened one door.
- 2 minutes after switching OFF the alarm through the remote control handset.

Note: To re start the vehicle, turn the ignition ON and press A push-button on the remote control handset.

6) Additional sensors isolation.

To isolate volumetric protection and/or shock/voltage sensors, press A push-button and press the same push-button within 2 seconds. A second flash of the indicators and an acoustic signal will confirm the occurred additional sensors isolation. At the following use of the system, the sensors will be restored.

Note: If the function No. 3 is set on 40 seconds, when isolating the sensors, you will isolate window closure features too (see paragraph 17).

7) Double unlocking activation (Programmable function No.10)

If activated, pressing the A handset push-button once the driver's door will unlock, if you press the same push-button within 3 seconds the remaining doors will unlock.

8) Double locking activation (Programmable function No. 11)

If activated, pressing the A handset push-button once all the doors will lock, if you press the same push-button again within 3 seconds, the doors will doubly lock. A third press of the push-button will isolate the sensors, a flash of the indicators and a siren beep will confirm the operation.

WARNING:

The function No.11 is activated only if the function No.3 is set at 1 second.

9) Emergency switch.

In case you cannot disarm the alarm through the remote control handset (i.e. battery low of the handset), open the door manually with the car's key. Alarm will be triggered, insert the remote handset pins into the LED receptacle and keep it pressed for few seconds. The alarm will be disarmed.

Note:

Keep the handset so that the two contact pins are in direct contact with the LED receptacle pins. LED on the remote control handset must be in the upper right side position.

10) Alarm cycles.

As per EU standard each single sensor generate a limited number of alarm cycles which last 28 seconds each.

11) LED status check.

Through the LED, it is possible to determine which sensor has been triggered. When you disarm the alarm, the LED will flash irregularly until when the ignition key will be switched on. The cause will be indicated by a number of **flashes and pauses** which allow to identify the occurred alarm.

See table below to check the sensors triggered:

To restore the alarm switch on the ignition key.

Sequence	Cause of activation
1 flash + pause	Ultrasonic sensor
2 flashes+ pause	Additional sensors
4 flashes + pause	Doors
5 flashes + pause	Boot/bonnet sensors
6 flashes + pause	Ignition switched live

Note:

Two or more triggers on different sensors (i.e. ultrasonic and doors) will be signalled in order by the led (i.e. 4 flashes + pause - 5 flashes + pause, 4 flashes + pause, 5 flashes + ...).

12) Windows closing partialisation

Note: *this feature is active only on cars equipped with "comfort" and with function n. 3 set on 40 seconds.*

Once alarm has been switched ON and optional sensor isolated, windows (if opened) will not close. It is possible to control the window closure pressing B button on remote control handset until the window reaches your desired height. This function is active within 40 seconds from the moment the alarm has been armed.

13) Battery low warning condition

If the LED on the remote control handset flashes continuously when pressing the handset push-buttons, it means that the battery is efficient.

If the LED comes on continuously when pressing the handset push-buttons, it means that the battery is low, therefore it is time to change it.

Note: the handsets battery replaced can be carried out by every GT Authorized Dealer (the number is GT 485 and the code is CR2032). The handset battery is Lithium and lasts 24 months.

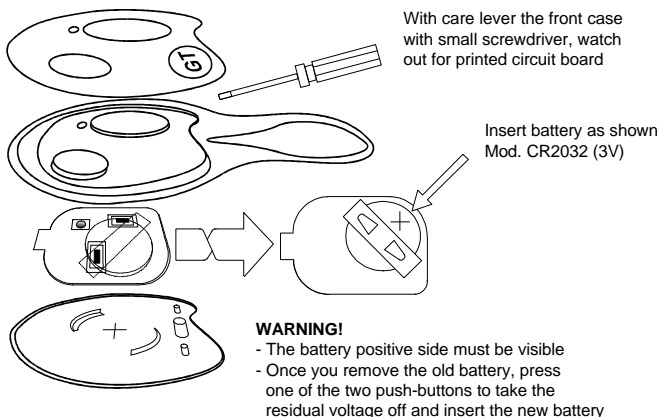
14) Self-powered siren

The siren is equipped with Nickel-Cadmium back - up battery. This battery allows the alarm to sound, when in armed status, in case alarm wires are cut as per EU requirements of alarm cycles.

10.2 - New remote control handsets request

Whenever you need a new handset, an additional one or in replacement of a lost handset, you should contact Getronic S.r.l. and communicate the code mentioned on the GT CARD CODE you received when you install the alarm system in your vehicle.

11.0 - CHANGING BATTERY OF THE REMOTE CONTROL HANDSET



12.0 - EC COMPLIANCE DECLARATION

Getronic S.r.l. Via Calcinatè, 12 Gavirate, Italia, hereby declares that **GT K 836** has been approved under the following European Directives as issued by the European Community: **99/5/CE** (including the directives: **95/54CE - 95/56/CE - EN60950**) and also approved by IMQ. All the Getronic products are compatible with the supplied electronic of all the vehicles.

The **GT482** handset has been approved under the following European Directives as issued by the European Community:

EMCC DR. RASEC "Notified Body 0678"

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

The manufacturer holds the homologation certificates and the documents required for compliance evaluation.

Chairman of the board
Danilo Restelli



Danilo Restelli

Varese, February 13th, 2003

13.0 - 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 12 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.

14.0 - TECHNICAL DATA

GT 636 Q Technical data:

- Power supply: 9÷15VDC
- Current draw (armed alarm): 24mA @ 12VDC
- Current draw (disarmed alarm): 14mA @ 12VDC
- Current draw check LED: 2mA
- Indicators relay: 10A - 15VDC @ 25°C
- Engine immobilisation relay: 10A - 15VDC @ 25°C
- Siren/Horn output: 10A @ 25°C
- Locking commands: 10A @ 25°C
- Courtesy light output: 2A @ 25°C
- Working temperature: -40°C / +85°C
- Arming delay: 60" for doors and additional sensors;
5" for ignition switched live,
power supply and boot/bonnet.

Ultrasonic sensor technical data:

- Quartzed oscillator: 40 KHz
- Working temperature: -40° C / +85° C.

GT 444 Technical data:

- Power supply : 12 VDC \pm 4VDC.
- Acoustic power: in compliance with the CEE 70/388.
- Current draw : < 5 mA.
- Working temeperature: - 40°C / + 85°C.
- Self-power supply:

The GT 444 siren is equipped with Nickel-Cadmium back-up batteries. The recharge message is sent from the combined control unit and the recharge time is of about 16 hours.

Getronic S.r.l.

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