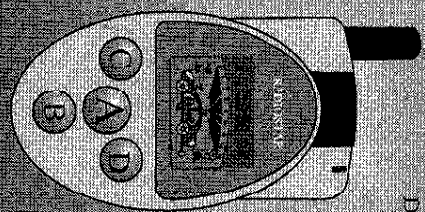


Users manual

TWO-WAY LCD VEHICLE SECURITY AND ENGINE STARTER SYSTEM



- A: Arm/Unlock
- B: Disarm/Unlock
- C: Shock/Quasi-Alarm/Alarm
- D: Personal Alarm/Call/Call (Call-in-Alarm System)

- D+A: Call/Answer and Power
- D+B: Remote Start/Stop
- D+C: Trunk Release
- D+D: Service/Repair/Call

RADIOSTAR



- 1. 12-18 MHz of Commercial Radio Range
- 2. Remote Start/Stop and Engine Immobilizer
- 3. Remote Trunk Release
- 4. Remote Alarm/Call
- 5. Remote Shock/Quasi-Alarm Control
- 6. Remote Engine Start (Optional)
- 7. Remote Repair/Call

RADIOSTAR® RS-680
King-Lion Series

King-Lion Series
RADIOSTAR
A. S. I. S. T. A. R.

MANUAL FOR OPERATION AND INSTALLATION

Please read this manual carefully before operate and install the machine

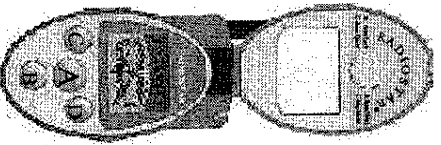
RADIOSTAR

INTRODUCTION

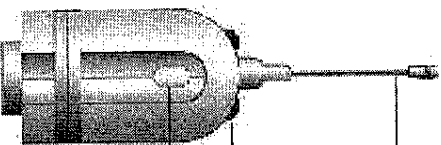
Thank you for purchasing the RADIOSTAR King-Lion Series LCD Vehicle Security System!

RS-680 King-Lion system features a state-of-the-art technology and design of our Company to give you maximum safety and satisfaction in using the system.

- 1) Please read this manual carefully before using and installing your King-Lion Car Alarm so that you'll take the full advantage of every marvelous features provided by King-Lion system.
- 2) The local authorized dealer is responsible for the service and warranty.
- 3) The Remote Control is powered by a 1.5V type LR03 AAA Alkaline battery. When the low-battery displays on the LCD screen, please replace the battery.
- 4) Proper wire connections and components placement are essential for optimum performance of the system. It is highly recommended that the installation is to be done by an experienced technician.



Remote Control



Communication Unit

Antenna

LED : Status Indicator

Valet Button

→ 680

RADIOSTAR RS-680

USER'S MANUAL

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CONFIGURATION TABLE

MODEL : King-Lion No.

Configuration Table of King-Lion Series Models

| Parts Model | Two-way Deluxe Remote Control | Two-way Ordinary Remote Control | One-way Ordinary Remote Control | Remote Starter Module | Shock Sensor | Leather Sheath of the Remote |
|--|-------------------------------|---------------------------------|---------------------------------|-----------------------|--------------|------------------------------|
| King-Lion No. I | 2 | | | | 2 | 2 |
| King-Lion No. I with starter module | 2 | | | 1 | 2 | 2 |
| King-Lion No. II | 1 | | | | 2 | 1 |
| King-Lion No. II with starter module | 1 | | | 1 | 2 | 1 |
| King-Lion No. III | 1 | | 1 | | 2 | 1 |
| King-Lion No. III with starter module | 1 | | 1 | 1 | 2 | 1 |
| King-Lion No. VI | | 2 | | | 1 | |
| King-Lion No. VII with starter module | | 2 | | 1 | 1 | |
| King-Lion No. VII | | | 2 | | 1 | |
| King-Lion No. VIII with starter module | | | 2 | 1 | 1 | |

Note: Unit: PCS

USER'S MANUAL

RADIOSTAR RS-680

WARRANTY

LIMITED WARRANTY

This King-lion Series Alarm & Starter product is warranted against manufacturing defects in material and workmanship for 180 days from the date of purchase from the Authorized Dealer. During the period, the Dealer will repair the King-lion Series products without charging the parts and labor cost.

The warranty does not cover damage or failure caused by or attributed to Act of God, abuse, misuse, improper or abnormal usage, improper maintenance, lightning or other incidence of excess voltage, or any repairs other than those provided by the Dealer's engineer and their facility. When warranted time is expired, Dealer will repair the products only charging the parts cost.

Purchase Information

Name of Dealer _____
 Address _____
 Zip Code _____
 Phone _____ Fax _____
 Date of Purchase _____
 Signature of Installation Engineer _____

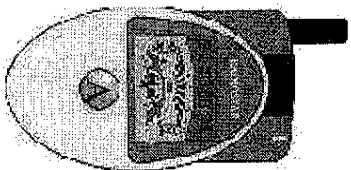
Product Information

Model _____
 Type of Vehicle _____
 Serial number of Remote Control #1 _____
 Serial number of Remote Control #2 _____

RADIOSTAR RS-680

USER'S MANUAL

TABLE OF ICONS AND REMOTE CONTROL FUNCTIONS



| Icons | Icon Descriptions |
|-------|--|
| ⊠ | Indication of no Acknowledgement |
| ⊡ | Door locked (Car armed) |
| ⊢ | Door unlocked (Car disarmed) |
| ⊣ | Trunk released |
| ⊤ | Triggered by Shock Sensor(s) |
| ⊥ | Door opened |
| ⊦ | Triggered by illegal start |
| ⊧ | Car light flashing |
| ⊨ | Engine is running |
| ⊩ | Sound Arming |
| ⊪ | Mute sound Arming |
| ⊫ | RTG (Real time clock) |
| ⊬ | PAC (Personal Alarm Call) on |
| ⊭ | Battery Capacity Indicator |
| ⊮ | Vibration Mode of Remote Control |
| ⊯ | Screen Light on |
| ⊰ | Indicator of waiting for acknowledgement |

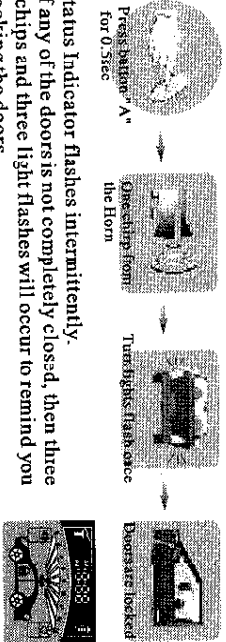
| Button | Duration | Function | Condition |
|--------|----------|--|---|
| A | 0.5 SEC | Door locked (Car armed) | Fail off by Ignition Key |
| B | 0.5 SEC | Door unlocked (Car disarmed) | |
| C | 0.5 SEC | System status check (two-way remote control) | |
| D | 2 SEC | Menu | |
| E | 0.5 SEC | Vehicle forcing | |
| F | 0.5 SEC | Remote start on/off | |
| G | 0.5 SEC | Trunk release | |
| H | 0.5 SEC | Screen Light on/off (two-way remote control) | |
| I | 0.5 SEC | Screen Light on/off (one-way remote control) | |
| J | 0.5 SEC | Function reset | Press Option 'C' for 2sec to enter Menu |
| K | 2 SEC | Increase clock (Alarm call) continuously | |
| L | 0.5 SEC | Select | |
| M | 0.5 SEC | Engine | |
| N | 0.5 SEC | Lock the door when door unlocked | Turn Ignition Key to 'KEY ON' position |
| O | 0.5 SEC | Break the door when door locked | |
| P | 0.5 SEC | Anti-Robbery Start off Engine | |

USER'S MANUAL

RADIOSTAR RS-680

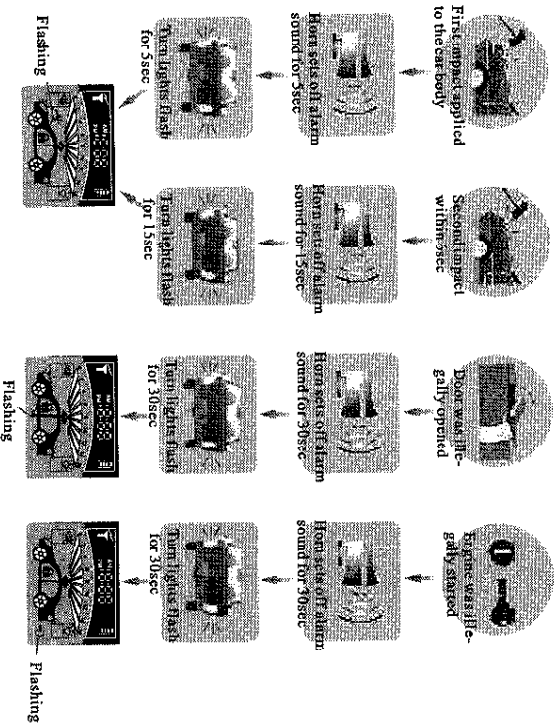
MAIN FUNCTIONS

Lock and arm the car



If any of the doors is not completely closed, then three horn chips and three light flashes will occur to remind you of checking the doors.

When alarm is triggered (in arming state)



Notes:
 a. When alarm was triggered, engine was immobilized automatically.
 b. To silence the alarm point from the vehicle, press button "A" and the vehicle is still in the arming state.
 c. When the Remote Control successfully received the triggered alarm, alarm is set off. Warning beeps every 20 seconds. To release the warning beeping, press any button of the Remote Control.

RADIOSTAR RS-680


TIPS FOR INSTALLATION

| | |
|---|--|
| 5. Remote Central Lock does not work normally? | Verify the selection mode of Central Lock (Air or Motor)? Verify the triggering mode of Central Lock (Negative, Positive, Reverse Polarity, or Positive Loop)? |
| 6. System can not control Air-operated Central Lock? | First cut the Blue-loop wire at the rear part of the Main Control Unit, and initialize the system by removing and connecting the 15A fuse in the fuse-holder in the middle of the Red Wire. |
| 7. System can not start the engine by Remote Control? | Verify if Ignition Key has been pulled off from the Key Cylinder? Verify if the Parking Brake (Handbrake Bar) is well activated? Check if the vehicle is equipped with a encryption chip key? if so, it is not recommended to apply the Remote Start Function. |
| 8. Engine is started successfully but the starting motor still cranks every 10 seconds later? | Verify if a positive signal (+12V) from the wire of Oil Sensor is sent to the red wire of 7P plug of the Main Control Unit only when engine is running? For some types of vehicle, it is hard to locate the wire of Oil Sensor; if the oil sensor signal is supplied with somebody, it is recommended to apply the signal of the oil lamp inside the dashboard. |
| 9. System (press button "A" for example) can not control Central Lock while driving? | Verify the connection of the "Key ON" signal? Verify the connection of the Brake Pedal Lamp signal? |
| 10. Communication Unit is easy to loose or even fell off? | Please clean the paste place with a wet cloth and mount the Communication Unit when dry. |

RADIOSTAR RS-680

TIPS FOR INSTALLATION

Tips for troubleshooting

| PROBLEM | POINTS TO VERIFY AND SUGGESTION |
|---|---|
| 1. Alarm will be triggered by shock sensor whenever a heavy vehicle passes by or by something unexpected after you park and arm your vehicle? | Turn the tuning screw of Shock Sensor slowly counter-clockwise to make the sensitivity more dull (especially when two Shock Sensors are mounted). |
| 2. The Horn/Siren does not work? | Verify if the Horn is damaged? Verify if the chassis ground of horn is good? |
| 3. Remote Control can work but can not control the Main Control Unit? | Checking if the 6p-shielding cable connecting the Communication Unit and Main Control Unit is well-connected? Make sure if  icon is displayed on the LCD screen? Make the system to valet mode (see page 6) and contact the nearby dealer. Make the system memorize the code again. (See page 11) |
| 4. System makes no response whenever any of the vehicle doors are opened? | Check if the door pin input signal is correct? (Negative signal door for most vehicles or positive signal door for Ford series vehicle). For the vehicle (for example, Buick series) in which the Dome Light signal is supplied with some delay to shut off, it is recommended to connect the wire directly to the door pin wire inside the driver's door instead of the Dome Light. |

RADIOSTAR RS-680

USER'S MANUAL

MAIN FUNCTIONS

Unlock and Disarm the car

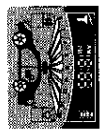


A. Autorearming: If you do not open the doors within approx. 40 seconds after disarming the car with Remote Control, the doors will be locked automatically and the car returns to arming state by itself, while the Remote Control beeps three short sound and "Doorlocked" icon appears.

B. Turn lights auto flashing: When you disarm the car and open the door, the turn lights will flash for several times to give the coming vehicles parking signals. If alarm was triggered before, the horn will additionally sound twice to remind you of checking your car.

C. Automatic Central lock/unlock function: In disarm mode, while you are driving with doors closed, the doors will be automatically locked when you first step on the brake pedal. You can also press button "A" to let you toggle between locking and unlocking the doors. When you shut off the engine, the doors will be unlocked immediately.

D. Passive Arming warning: When you shut down the engine, exit from the vehicle and close the doors, the system shall be automatically armed in approx. 30 seconds even if you do not press button "A" of your Remote Control. The horn will sound and the turn lights will flash for three times and your Remote Control will set off a tone for your attention.



Status Indicator goes out



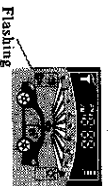
Flashing

Trunk Release

Within 3 sec



The trunk and the doors will be unlocked simultaneously. If you do not open any of the doors in 1 minute after the trunk is released, the doors shall be locked again automatically. The trunk shall be closed manually only.



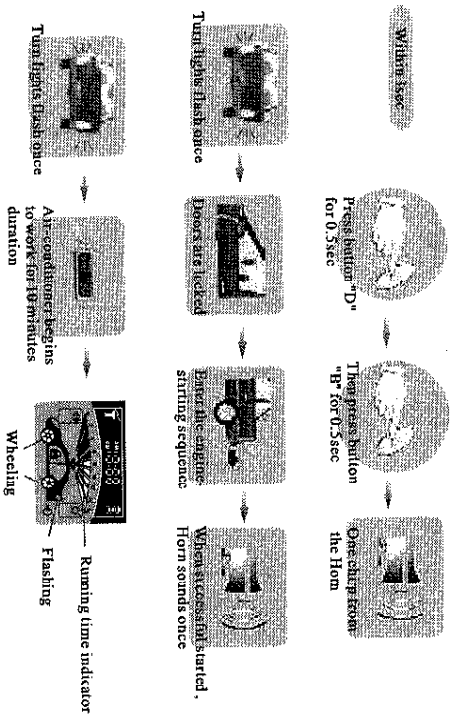
Flashing

USER'S MANUAL

RADIOSTAR RS-680

MAIN FUNCTIONS

Remote engine start

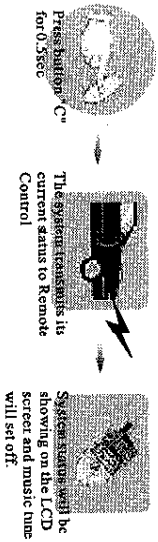


Notes:

1. Press button "B" while the engine is running.
2. The doors are unlocked and the system is disarmed. If you enter the vehicle while the engine is running and turn the Ignition Key to "ON" position within 1 minute, you do not need to crank the starter motor again for your driving.
3. Press button "D" and then button "B" once again to shut down the remote started engine.
4. When the engine has been shut off either automatically or by Remote Control, the gas icon on the LCD screen will disappear and the icon stops wheeling.
5. Remote engine start is optional.

IMPORTANT!
 In the MAIN AIR TRANSMISSIONS ONLY, when you've placed the transmission gear in the Neutral position and released the parking brake, the remote engine start function is recommended to apply to the safety of people and your vehicle.

System Status Check

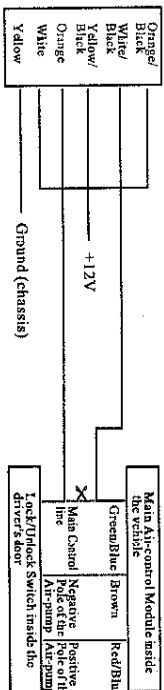


RADIOSTAR RS-680

USER'S MANUAL

INSTALL DIAGRAM

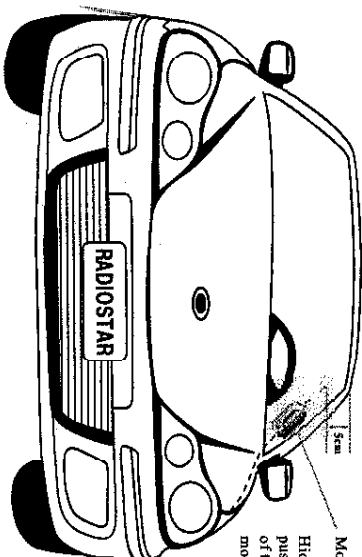
The vehicle is equipped with air-operated Central Lock, please cut the blue-wire at the rear part of Main Control Unit, the aimed time is 4 seconds.



Connection Diagram For Air-operated Central Lock - P.S. door main control line may reverse the signal polarity between locking and unlocking the door, for instance, Audi, Mercedes-Benz vehicle series.

Install Guide For Communication Unit

The mounting place of Communication Unit has a substantial influence upon the communication range of the system. It is recommended to install the Communication Unit to the left-right side (left-steering, wheel 1) on the front window blind or the driver's seat. Before mounting note to scan the mounting position with a wet cloth in order to glue the Communication Unit firmly.



Mounting Place
 Hide the wire by carefully pushing it inside the space of the front window's blind mold trim.

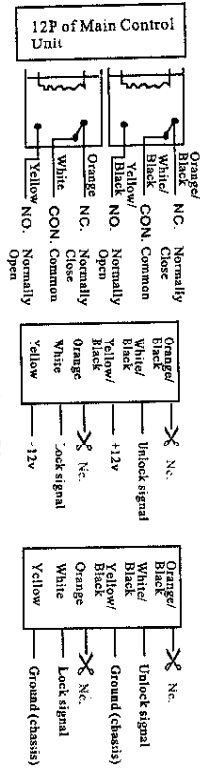
RADIOSTAR RS-680

USER'S MANUAL

INSTALL DIAGRAM

Installation and Connection Diagram for Central Lock

Interior Relay Diagram For Central Lock

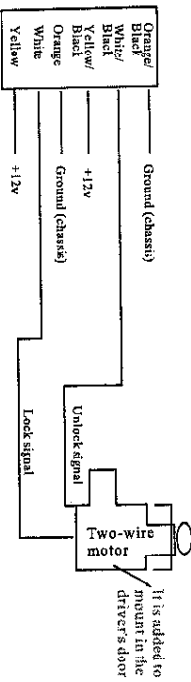


The vehicle is equipped Central Lock with a motor inside the driver's door.

Connection Diagram For Positive Triggered Central Lock

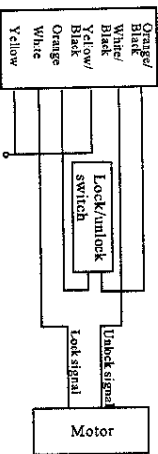
NC.: No connection

The vehicle is equipped Central Lock with only a lock/unlock switch instead of a motor inside the driver's door.



Connection Diagram For Reverse Polarity Triggered Central Lock

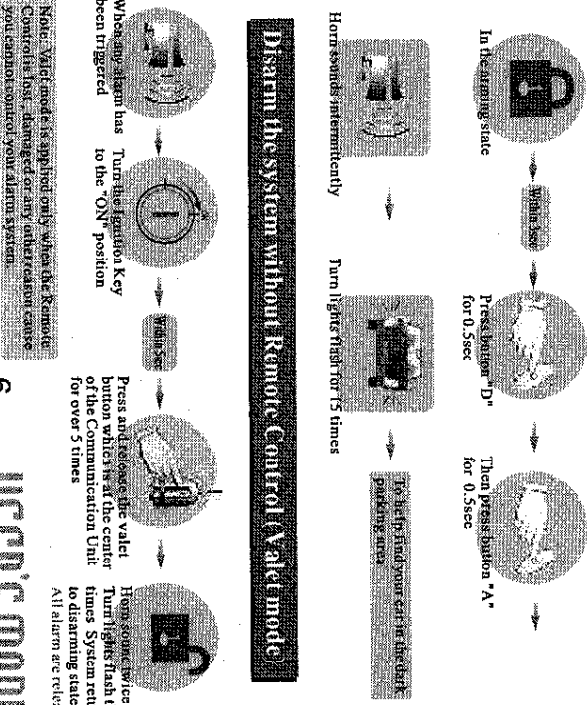
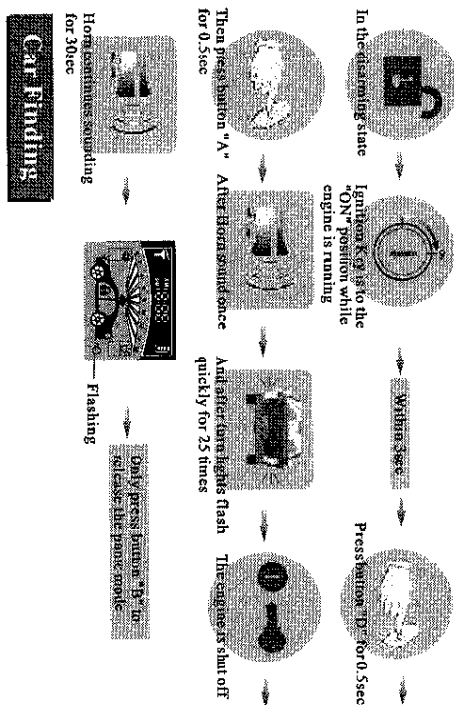
The vehicle is equipped Central Lock with not only a lock/unlock switch but also a motor inside the driver's door.



Connection Diagram For Positive Loop Central Lock

MAIN FUNCTIONS

Anti-Robbery (Panic mode)



Note: Valet mode is applied only when the Remote Control is lost, damaged or any other reason cause you cannot control your alarm system.

Press and release the valet button which is at the center of the Communication Unit for over 5 times.

All alarm are released.

AUXILIARY FUNCTIONS

Hidden Alarm (Mute sound, arming)


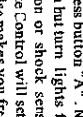
Press button "C" for 0.5sec (if the icon flashes (C-short))




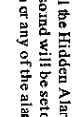
Flashing



Set the system to Hidden Alarm mode whenever you press button "A". No horn sounds from the system but turn lights flash whenever you press a button or shock sensor is triggered and the Remote Control will set off beeping warnings. This also makes you free from the "false" alarm which can be a nuisance in a residential area.





Cancel the Hidden Alarm mode
Horn sound will be set off whenever you press a button or any of the alarm has been triggered.





Vibration Mode of Remote Control


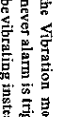
Press button "C" for 2sec (C-long)




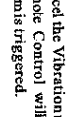
Press button "C" for 0.5sec (if the icon flashes (C-short))



Set the Vibration mode of Remote Control. Whenever alarm is triggered, Remote Control will be vibrating instead of beeping.

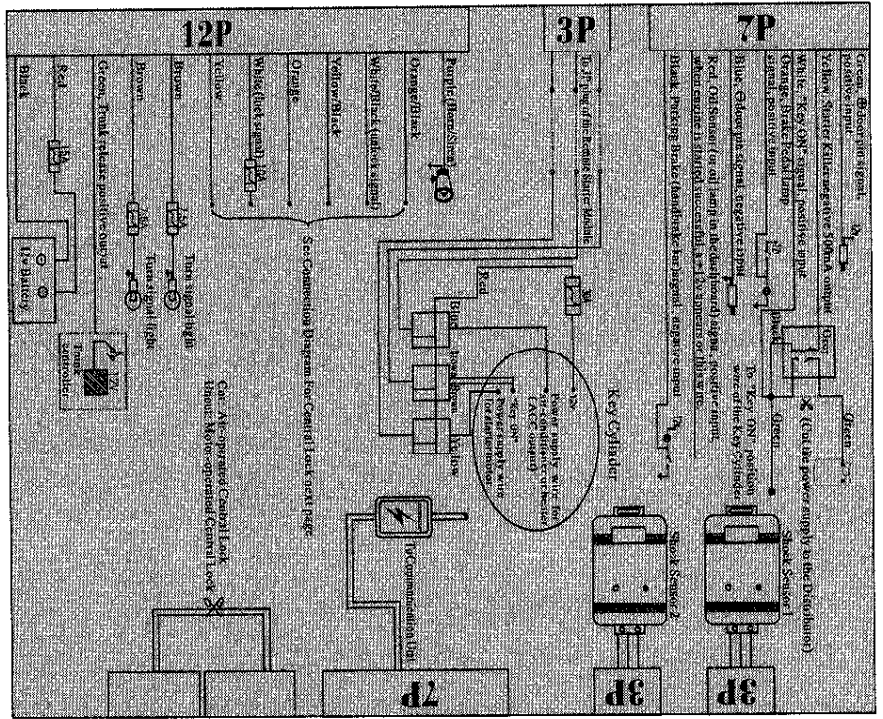



Cancel the Vibration mode of Remote Control
Remote Control will be beeping whenever alarm is triggered.

INSTALL DIAGRAM

Install diagram of the Main Control Unit



Note: Please refer to the connection diagram for the control lock set page.

INSTALLATION SET-UP

Code Memorizing of Remote Control



Turn the shock sensor to the position of the shock sensor.

Note:
 a: The Remote Control's code has been memorized in the factory, you do not need to memorize it unless you lose the Remote Control and obtain a new one or you want to buy one more Remote.
 b: The system can memorize at most two Remote Control.

Installation Adjustment for Shock Sensor(s)

One of the most important factors to maximize the performance is to mount the shock sensor correctly.

The shock sensor should be firmly mounted on the frame of the vehicle's body. After installation, if you want to adjust the sensitivity to its optimum level, you may use a (-) screw driver while testing the strength by applying impact to the several different part of the vehicle's body. If you turn the tuning screw of the Shock Sensor clockwise, the sensitivity goes sharp and, counter-clockwise, it goes dull.

Note: The system provides two shock sensors for some models. The two shock sensors can be removed independently. It is recommended that the sensor with a short wire be mounted near the area under the dashboard and the sensor with a long wire be mounted inside the vehicle frame.

RADIOSTAR RS-680

USER'S MANUAL

AUXILIARY FUNCTIONS

Display Battery Capacity



Correction of Real-time clock



When icon flashes
 Press button "A" for 0.5sec
 Hours go increment

When icon flashes
 Press and hold button "A"
 Hours go increment quickly

When icon flashes
 Press button "A" for 0.5sec
 Minutes go increment

When icon flashes
 Press and hold button "A"
 Minutes go increment quickly

When icon flashes
 Press button "B" for 0.5sec
 To confirm and save the time settings (Note: the counter of the seconds of RTC is cleared at this time)

RADIOSTAR RS-680

USER'S MANUAL

AUXILIARY FUNCTIONS

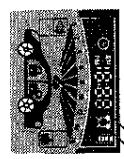
Time set-up for Personal Alarm



Press button "C" for 2Sec (C-Long)



Press button "C" for 0.5Sec (C-Short) Flashes (C-Short)



Flashing

When icon  flashes



Press button "A" for 0.5Sec

Hours of alarm clock go increment

Press and hold button "A"



Hours of alarm clock go increment quickly

When icon  flashes



Press button "A" for 0.5Sec

Minutes of alarm clock go increment


Press and hold button "A"

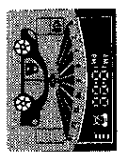


Minutes of alarm clock go increment quickly



Press button "B"

To confirm and save the alarm time settings and Remote Control enters Personal Alarm mode, icon  appears on the LCD screen, the time value is the alarm call time value. Remote Control will shift to RTC display a little while later.



Press button "D"

To cancel the Personal Alarm mode

Note: Alarm settings will be activated when time expires the setting alarm time and Remote Control will set the Personal Alarm mode automatically. If you want to enter Personal Alarm mode again, just press button "C" for 2Sec and then press "C" or 0.5Sec. If the icon  flashes, and press button "B" to end it.

AUXILIARY FUNCTIONS AND INSTALLATION SET-UP

Screen Illumination on/off



Wait 3Sec



Press button "D" for 0.5Sec



Then press button "D" for 0.5Sec again

Screen lights are off

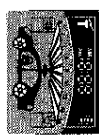


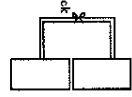
Figure shows that the screen lights are on:

Type Selection of the Central Lock

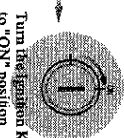
There is a blue-loop wire at the rear part of Main Control Unit, see figure detail.

On: Air-operated Central Lock
Uncut: Motor-operated Central Lock

Starting delay time selection



In the alarm state



Turn the ignition Key to "ON" position



Hold down Voice Button for over 3Sec

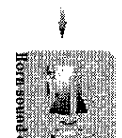


Signal indicator flashes constantly



Press button "A"

To select the 3sec starting delay time for petrol-engine



Horn sound once



Turn lights flash once



Press button "B"

To select the 7sec starting delay time for diesel engine



Horn sound twice



Turn lights flash twice

Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.