



USERS MANUAL

SL-52FM

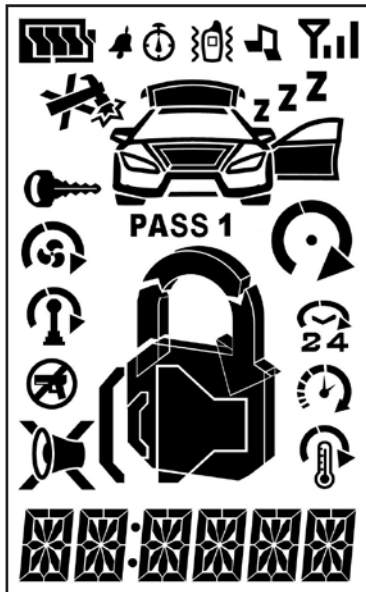
Two Way 3-Channel 915 MHz
Extended Range Remote Start
Keyless Entry System

This unit is designed for professional installation only.

For Warranty information:
Please visit our website at www.silencer.com


Magnadyne Corporation 1111 W. Victoria Street, Compton CA 90220 (800) 340-3200

LCD REMOTE CONTROL TRANSCEIVER: SL-RF92LCD

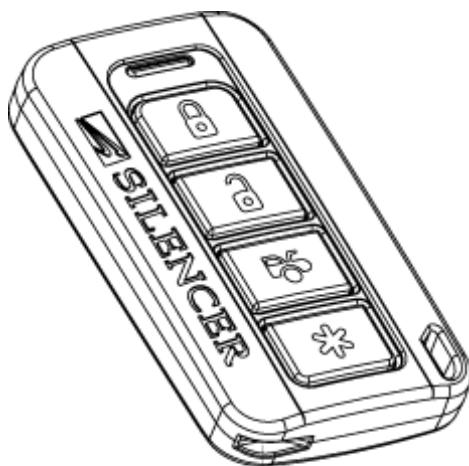


A. CHANGING THE BATTERY:

BATTERY REPLACEMENT: SL-RF92

The Two-Way remote transmitter is powered by one “AAA” Battery. When the power of the battery weakens a  icon shall be displayed on the LCD screen. When the old battery is replaced, there will be beep sounds indicate the power is up of the transmitter.

The SL-RF91 One-way remote is powered by one CR2032 Battery.














Coin


















SL-RF91

B. STANDARD LCD ICON CONFIGURATIONS:

| | |
|---|---|
|  | Lock icon will be displayed when the door locked. |
|  | Valet Mode Remote start and alarm functions shall be temporarily on hold. |
|  | Remote Transmission You are transmitting the signal to control unit |
|  | Engine Cranking Your vehicle engine Cranking by remote control |
| 12:00 | Time Monitor |
| 0:10 P | Parking Meter Reminder when time is up for parking |
|  | Melody Mode Remote Control alert user through melody sound |
|  | Unlock icon will be displayed when the door unlock |
|  | In – Range Indicator You are within the remote control range. |
|  | Engine Running Your vehicle's engine is running |
|  | Activate Channel 3 (Trunk Release). |
| 12:00 | Alarm Clock You have set morning call alarm |
|  | Low Battery You have to replace the battery of remote control. |
|  | Vibration Mode Remote Control vibrates when the system is triggered |

OPERATION:

C: REMOTE TRANSMITTER OPERATION:

| Transmitter Button | System Function | Remark |
|---|---|--|
|  | Lock Doors & Arm System | |
|  | Panic function | Press and Hold for 3 seconds. Press Trunk  button to stop panic function |
|  | Car Locator | Press when in armed mode |
|  +  | Silent Arming / Disarming | Ignition in "off" position. |
|  | Unlock Doors & Disarm System | |
|  -  | Two Steps Door Unlock & Disarm System(optional) | Press twice within 3 seconds. |
|  | Trunk Release (Channel 3) | Press and Hold for 2 seconds |
|  | Activate or Turn Off The Remote Start | Press button once.   Press Twice if set to start safety mode |
|  +  | Switch code for 2nd car operation | For SL-91 remote transmitter only |

D:

CHIRP INDICATORS:

| Chirp | Function |
|----------|----------|
| 1 chirp | Lock |
| 2 chirps | Unlock |
| | |

PARKING LIGHT:

| Parking light | Function |
|---------------|-------------------------|
| 1 flash | Lock |
| 2 flashes | Unlock |
| ON | Running on remote start |

LED INDICATORS


| LED | Function |
|------------|------------|
| Off | Unlock |
| Slow Flash | Locked |
| On (Solid) | Valet Mode |

WARNINGS:



As with any product that performs automatic functions, there are certain safety precautions that you must practice and be aware of.

- Keep the transmitter out of children's reach.
- Do not leave anyone in the vehicle while running on remote control.
- Alert servicing personnel that the vehicle can be started automatically.
- **Do not start the vehicle by remote while it's in an enclosed area or garage.**
- Always apply the parking brake and lock the vehicle as you exit the vehicle.
- The vehicle windows must be rolled up.
- Should the unit malfunction, disconnect the fuse until the problem is corrected.
- The use and operations of this system is the sole responsibility of the operator.
- Some areas may have local ordinances that prohibit leaving a vehicle running on public streets.
- **THIS DEVICE CANNOT BE USED ON ANY STANDARD TRANSMISSION VEHICLE. FOR AUTOMATIC TRANSMISSIONS ONLY!**


E. ACTIVE LOCK:

Press  button on the transmitter.


The horn will chirp once and parking light will flash once indicating that the system is now locked. The vehicle's doors will lock upon arming if interfaced with the security system.

SILENT Lock / Unlock: Press the transmitter  and  buttons at the same time. This will lock or unlock your security system, No chirp sound will be heard, lock / unlock confirmation will be through the vehicles parking lights only.

F. ACTIVE UNLOCK:

1. Press  button on the transmitter.
2. The horn will chirp twice and the parking lights will flash twice indicating that the security system is now disarmed. The vehicle's doors will unlock and the dome light will turn on for 30 seconds upon disarming. (Note: Power door locks must be installed with the system.)

PATHWAY ILLUMINATION: When receiving an unlock /disarm signal, this feature will turn the parking lights "ON" for 30 seconds and for 10 seconds upon the lock signal. (Programmable)

TWO STEPS DOOR UNLOCK (Optional): This feature will independently unlock the driver's door only when disarming the system. Pushing the  button a second time within 3 seconds will unlock the other doors.

G. DEACTIVATING WITHOUT A TRANSMITTER

OVERRIDES THE ALARM WITHOUT PASSWORD PIN CODE: (Factory Default Setting)

The Override function may be used if the remote transmitter is lost or inoperative.

1. Enter the vehicle and turn the ignition switch to the 'ON' position.
2. (Alarm will sound.)
3. Within 10 seconds push and release the valet switch. The alarm will stop sounding and enter the disarm mode. You can now start and operate the vehicle normally.

H. VALET MODE:

VALET MODE: (System is in Disarm Mode)

The valet switch allows you to temporarily bypass all function, eliminating the need to hand your transmitter to parking attendants or garage mechanics. When the system is in valet mode, all functions and remote start functions are bypassed, however, the remote panic feature and remote door locks will remain operational. To use the valet mode, the system must first be disarmed either by using your remote transmitter, or by operating the Manual Override sequence.

Get into/out valet mode using the ignition key.


Enter Valet Mode:

- a). Under disarm mode, turn the ignition to "ON/OFF/ON" position.
- b). Press and hold valet switch for 2 seconds until the LED turns ON solid. The LED will remain on as long as the system is in 'valet mode'.

Exit Valet Mode:






- a). Turn ignition 'ON/OFF/ON'.
- b). Push and hold valet switch for 2 seconds, The LED will turn off indicate the system are exiting the valet mode.

I. CAR LOCATOR

Under armed mode, press the  button to active car locator function. The horn will chirp 6 times. The parking light will flash 12 times, for you to easily locate your car.

J. PANIC FUNCTION:

The transmitter can be used as a remote panic switch to manually trigger the horn in case of emergency.

1. Press and hold the  button for 3 second. The alarm will immediately sound.
2. During panic mode, the normal function of this transmitter button will be disabled. The transmitter  and  buttons can be used to lock and unlock the door (if the option is installed), however once the  button is pressed, the vehicle's starter disable device, (where installed) will be disengaged allowing the vehicle to start.
3. To stop the alarm, press the trunk  button on the remote control
If the button is not pressed, the alarm will automatically stop after 30 seconds.

K. IGNITION CONTROL DOOR LOCK/UNLOCK. (Programmable Feature)

If the vehicles door locks have been interfaced to the security system, the system will automatically lock the vehicle's doors when the ignition is turned "ON" and /or unlock the vehicle's doors when the ignition is turned "OFF". (Default setting is "OFF")

L. TRUNK RELEASE (CHANNEL 3) OUTPUT.

Press and hold  button on the transmitter for two seconds to remotely control the trunk release.

M. POWER ON MEMORY:

This security system is equipped with circuitry that will allow the unit to remember its alarm state if the power is lost and then reconnected.

N. CLEAR THE FLASH ICON AND MELODY SOUND:

The Transmitter will reset the flashing icons the next time the Ignition is cycled to the ON position.

O. STOP THE TRIGGER MELODY SOUND:

While triggering the alarm the LCD screen will alert the user through a melody sound and a flashing trigger icon. Press any button on the LCD remote transmitter to stop melody sound only.

WARNINGS:

As with any product that performs automatic functions, there are certain safety precautions that you must practice and be aware of.

1. Keep the transmitter out of children's reach.
2. Do not leave anyone in the vehicle while running on remote control.
3. Alert servicing personnel that the vehicle can be started automatically.
4. Do not start the vehicle by remote while it's in an enclosed area or garage.
5. Always apply the parking brake and lock the vehicle as you exit the vehicle.
6. The vehicle windows must be rolled up.
7. Should the unit malfunction, disconnect the fuse until the problem is corrected.
8. The use and operations of this system is the sole responsibility of the operator.
9. Some areas may have local ordinances that prohibit leaving a vehicle running on public streets.
10. It is not safe to remote start the vehicle if the vehicle is parked on a steep incline.

REMOTE START OPERATION:

A. TO REMOTE START THE VEHICLE:

When you want to start your vehicle,

1. Press * button once on the transmitter.
2. The parking light will activate to indicate the remote start received the signal.
3. The engine will start in approximately 5 seconds.
4. Once the engine is running, after couple seconds the parking lights will turn on and the climate controls will activate and adjust the vehicle's interior temperature to your preset setting. (While the vehicle is running, the "minutes" digit on the LCD screen will flash and the will indicate countdown timer based on the 5, 10, 20 or 30 minute run time set up by your installation center.)
5. The vehicle will run for a programmable 5 to 30 minute cycle before shutting down. (When the unit shuts off the countdown timer will turn off and the transmitter will play a melody.)

NOTE: The Remote Start Unit will not start the vehicle if any one of the following conditions exists:

1. The hood is opened.
2. The brake pedal is pressed.
3. The optional remote start enable toggle is switched to the "OFF" position. (If installed)
4. The gear selector is in any gear other then "PARK" or "NEUTRAL".

SAFE START (Child safety mode)

Factory default is set to press the * button once on the transmitter to start the vehicle. You can program this feature to eliminate an accidental remote start:

1. The user presses the transmitter * buttons twice within 3 seconds to start the vehicle. or

NOTE: Contact your installing dealer to activate this feature.

B. OPERATE THE VEHICLE WHILE RUNNING FROM THE REMOTE START:

To operate the vehicle while the engine is running from the remote start,

1. Insert the ignition key and turn it to "ON" (not the start) position.
2. Press the brake pedal.

Note: If the brake pedal is pressed before the key is in the ON position, the engine will shut down.

C. TEMPORARY STOP FEATURE:

This feature allows the vehicle to remain running after the key has been removed from the ignition. This feature is useful for occasions when you wish to exit and lock the vehicle for short periods of time, but would like to leave the motor running and the climate control on.

1. Before turning off the engine, press the * button once on the transmitter and the LED indicator will flash 3 times to confirm enter.
2. Turn the ignition key to OFF position. (The engine will stay running.)
3. The engine will run until the pre-programmed time elapsed or shutdown input is received.

D. TO TURN OFF THE REMOTE START:

When the engine is running (by remote start), if you want to stop it,

1. Press * button once on the remote transmitter under the remote start mode.
2. Move the optional remote start enable toggle switch to OFF position. (If installed)
3. **Press the brake pedal**

The vehicle will shut down and turn off the parking light to indicate the engine has stopped.

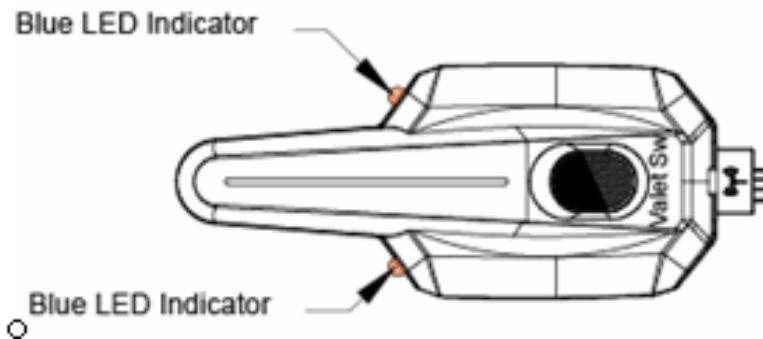
E. SHUT-DOWN INPUT FOR REMOTE STARTER:

If any of the following conditions exist while the system is operating, the engine will not start or will shut down immediately:

1. The hood is opened.
2. The brake pedal is pressed.
3. The parking (hand) brake is released (For Turbo Timer Mode)
4. Engine is over-revved. {"Tachometer checking type" only}
5. The pre-programmed run time (5 /10 / 20 / 30 minutes) has elapsed.
6. Press * button on the remote transmitter under remote start mode.
7. The system trigger.
8. The vehicle refused to start running after {3} unsuccessful attempts.

ANTENNA:

The long range antenna should be located somewhere on the windshield of the vehicle. This antenna also contains the two blue status LED's as well as the Valet Button / Switch.



TRANSMITTER PROGRAMMING

Enter:

1. Turn the Ignition 'switch 'OFF/ON' 3 TIMES and stay in ON position. Within 15 seconds.
2. Push the Valet switch 3 times and hold in on the 3rd push, when a long chirp is heard then release the valet switch. You are now in the Transmitter programming mode.

Program:

1. Press any button on transmitter 1 until the siren responds with a confirming chirp; the first transmitter is now programmed.
2. Press any button on the second transmitter until the siren responds with a confirming chirp; the second transmitter is now programmed.
3. Apply the same procedure to program 3rd and 4th .Transmitters.

Exit:

Turn Ignition to 'OFF' position, or leave it for 15 seconds. 3 long chirps and 3 parking light flashes will confirm exit. Note: If more than 4 transmitters programmed, the system will only keep the last four.

ADVANCED USER'S MODE:







2-WAY LCD REMOTE CONTROL TRANSCEIVER OPERATION:

Table 1:

Enter : Press & hold " F " button until one beep, release F-button and continue press F button within 5 sec. to move forward to feature option you want to program.

EXIT: Press & hold " F " button for 2 sec. or do nothing wait for 5 sec. automatic exit

2-way LCD (1 beep) => Confirm Exit.

| F Button | LCD Display | Button |
|---|--|--|
| Press and hold the F Button until 1 beeps sound | <u>SENSOR BYPASS</u> and <u>PASS 1</u> icon On | Press  button Enable to arm the alarm and bypass sensor 1. |
| Press F Button 2nd time (HHU 1 beep) within 5 seconds | <u>HIDDEN ALARM</u> and  icon On | Press  button Enable to arm system and with Hidden Alarm Function. |
| Press F Button 3rd time (HHU 1 beep) within 5 seconds | <u>ANTI- HIJACK</u> and  icon On | Under ignition in "on" position Press  button Enable to activate anti carjacking functions. |
| Press F Button 4th time (HHU 1 beep) within 5 seconds | <u>CH 4</u> flashing | Press  button Enable CH#4 output |

Note: Press and release F Button 2-way LCD Backlight turns on for 5 seconds

Table 2:

Enter : Press & hold " F " button until 2 beeps heard, release F-button. Continue press F button within 5 sec. to move forward to feature option you want to program.

EXIT: Press & hold " F " button for 2 sec. or do nothing wait for 5 sec. automatic exit

2-way LCD (1 beep) => Confirm Exit.






| F Button | LCD display | Button |
|--|--|--|
| Press and hold the F Button until 2 beeps sounded | <u>MENU</u> flashing | Press  button to enter 2-way HHU menu mode |
| Press F Button 2nd time (HHU 1 beep) within 5 seconds | <u>STATUS</u> <u>CHECK</u> | Press  button Enable to check the vehicle's status. |
| Press F Button 3rd times (HHU 1 beep) within 5 seconds | <u>ALARM</u> <u>CHECK</u> | Press  button Enable to check vehicle's trigger status. |
| Press F Button 4th times (HHU 1 beep) within 5 seconds | <u>VOLTS</u> <u>CHECK</u> | Press  button Enable to check vehicle's Voltage. |
| Press F Button 5th time (HHU 1 beep) within 5 seconds | <u>TEMP</u> <u>CHECK</u> | Press  button Enable to check temp. status |


Table 3:

Return 2-way HHU to default setting

Enter : Press & hold “ F “ button until 4 beeps heard, release F-button.

EXIT: Press & release “ F “ button or do nothing wait for 5 sec. automatic exit

2-way LCD (1 beep) => Confirm Exit.

| F Button | LCD display | Button |
|--|--------------------------|---|
| Press and hold the F Button until 4 beeps sounded | RESET flashing | Press & hold  button for 2 seconds to back to default setting and 1 chip for confirm |


2-way LCD HHU PROGRAMMING (Select and Adjusting Table-2-Menu options):


Enter:

Press and hold **F** button until **2** beeps heard then release the F button.

The Display will show **MENU** flashing, press  button to enter HHU menu mode.

(LCD display show Hours of current time set up, set up hour(s) first.)























Press  button to increase value, or Enable the selected feature.



































Press  button to decrease value, or Disable the selected feature .

Press  button to confirm its selection, move to the next option.

EXIT: Press & hold “ F “ button or do nothing wait for 15 sec. automatic exit

2-way LCD (1 beep) => Confirm Exit.

| | Menu Option | LCD display | Functions |
|---|--|--|---|
| 1 | Current time set up | CLOCK | Default is 12:00 |
| | Adjust clock hours from 0 to 12 | 12 : 00 12 is flashing | Press  button = (+) or Press  button = (-) Press  button confirm its selection, move to next option. |
| | Adjust clock minutes from 0 to 59 | 12: 00 00 is flashing | Press  button = (+) or Press  button = (-) Press  button confirm its selection, move to next option. |
| 2 | Alarm Clock set up | ALARM CLOCK | Default is OFF |
| | Adjust Alarm Clock hours from 0 to 12 | 12 :00 12 is flashing | Press  button = (+) or Press  button = (-) Press  button confirm its selection, move to next option. |
| | Adjust Alarm Clock minutes from 0 to 59 | 12: 00 00 is flashing | Press  button = (+) or Press  button = (-) Press  button confirm its selection, move to next option. |
| | Select Alarm Clock Enable or Disable | ON +  or OFF | Press  button = Enable or Press  button = Disable Press  button confirm its selection, move to next option. |
| 3 | Parking Meter countdown | PARK METER | Default is OFF |
| | Adjust Parking Meter countdown hours from 0 to 2 | 0 :00 0 is flashing | Press  button = (+) or Press  button = (-) Press  button confirm its selection, move to next option. |
| | Adjust Parking Meter countdown minutes from 0 to 59. | 0 : 30 30 is flashing | Press  button = (+) or Press  button = (-) Press  button confirm its selection, move to next option. |

| | | | |
|----|--|--|---|
| | Select Parking meter countdown Enable or Disable | P-- ON +  or P -- OFF | Press  button = Enable or Press  button = Disable Press  button confirm its selection, move to next option. There is a beep sound at 5 min. before Parking countdown reach 0. |
| 4 | Power Save | <i>POWER SAVE</i> | Default is OFF |
| | Select Power Save Enable or Disable | ON +  or OFF | Press  button = Enable or Press  button = Disable When power save enable, the LCD remote transceiver uses "0" current to save the battery power. LCD show "Save" on text area Exit: Press any button of LCD remote to exit the "Power Save Mode". Press  button confirm its selection, move to next option. |
| 5 | 2-way HHU Response mode | BZZZER or VIB | Default is Buzzer |
| | Select 2-way HHU confirmation by Melody or Vibration | BZZZER +  or VIB +  or BZ+VIB +  +  | Press  button = Melody or Press  button = Vibration Press  button confirm its selected, move to next option. |
| 6 | Second Car Security Option | CAR SELECT | Default is CAR 1 |
| | | CAR 1 or CAR 2 |  - CAR 1 operation.  - CAR 2 operation |
| 7 | Illumination Menu | ILLUM | Default is OFF |
| | | 3 SEC. or 5 SEC. or OFF |  ,  Basic operation with backlight Illumination 3 SEC. or 5 SEC.; OFF – basic operation without backlight illumination. |
| 8 | Key Lock | KEY LOCK | Default is OFF |
| | | Key lock enable or disable | Press  button = Enable or Press  button = Disable |
| 9 | CAR ICON Illumination* |  LCD icon | Default is OFF |
| | |  appear or not | Press  button = Enable or Press  button = Disable |
| 10 | (Time adjust for Daily Start mode) |  icon flashing | Default is OFF |
| | 1 -12 | 12 : 00 12 is flashing |  ,  - Program Daily start hour Press  button = (+) hours increase or Press  button = (-) hours decrease |
| | 0 - 59 | 12 : 00 00 is flashing |  ,  - Program Daily start minute Press  button = (+) minutes increase or Press  button = (-) minutes decrease |

* Car LCD icon is programmable show car icon on LCD display always or appear if needed as below.
(system trigger / valet mode / zone ajar/ anti car-jacking mode car LCD will show on LCD display).

SILENCER LIMITED LIFETIME WARRANTY

Magnadyne Corporation or its authorized agents will, for the life of the vehicle and to the original purchaser, repair, replace or refund the retail sales price of said product or any part thereof, at the option of the Magnadyne Corporation or its authorized agents, if said product or part is found defective in materials or workmanship, when properly connected and operating on the correct power requirements designated for the specific product. This warranty and Magnadyne Corporation or its authorized agents obligations, hereunder do not apply where the product was: damaged while in the possession of the consumer, subjected to unreasonable or unintended use, not reasonably maintained, utilized in commercial or industrial operation, or serviced by anyone other than Magnadyne Corporation or its authorized agent, or where the warning seal on the product is broken or the power plugs or wires are detached from the unit. Magnadyne Corporation or any of its authorized agents do not assume any labor costs for the removal and reinstallation of any product found to be defective, or the cost of transportation to Magnadyne Corporation or its authorized agents. Such costs are the sole responsibility of the purchaser.

This warranty does not cover the cabinet, appearance items, normal wear and tear or accessories used in connection with the product resulting from improper installation, alteration, accident, misuse, abuse or acts of nature.

This Limited Life Time Warranty applies only to the receiver section of the security system. Neither the siren, transmitters, wire harness or any accessory item added to or used with a Remote Mobile security system are covered by this Limited Life Time Warranty. Sirens, transmitters, wire harness or any accessory item are covered by our standard 12 month limited warranty.

Magnadyne Corporation or its authorized agents shall not be liable to anyone for consequential or incidental damages or claims that may arise due to failure of product to operate properly except those accorded by law. Magnadyne's or its authorized agents liability to the repair, replacement of the product as stated above if all conditions of the warranty are met. No expressed warranty or implied warranty is given except those set forth herein. Magnadyne does not warrant or guarantee against break in damage or the theft of the vehicle in part or whole, or against the loss or damage to the contents of any vehicle in which a security system is installed. Magnadyne security systems are only a deterrent against possible theft.

This warranty extends only to the original purchaser of the product and for the vehicle in which it was originally installed. This warranty is not transferable or assignable to any person or vehicle. Defective merchandise should be returned to the original point of purchase or secondly to Magnadyne Corporation, 1111 W. Victoria Street, Compton, CA 90220. A return authorization must be obtained before sending, or merchandise may be refused.



LIMITED LIFETIME WARRANTY REGISTRATION CARD

Complete and mail now. **Please print clearly.**

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--|--|--|--|---------|--|--|--|------------|--|--|--|------|--|--|--|-----------|--|---------|--|-----|--|
| LAST NAME | | | | | | | | | | FIRST NAME | | | | | | | | | | INITIAL | | | |
| ADDRESS | | | | | | | | | | | | | | | | | | | | | | | |
| CITY | | | | | | | | | | | | | | | | | | STATE | | | | ZIP | |
| DEALER | | | | | | | | | | | | | | | | | | | | | | | |
| DATE OF PURCHASE | | | | | | MODEL # | | | | | | | | | | | | | | | | | |
| MAKE OF CAR | | | | | | | | | | | | | | YEAR | | | | LICENSE # | | | | | |

It is the purchaser's responsibility to register this product for any future warranty service.

Warning: Some batteries may contain Perchlorate

What is Perchlorate? Perchlorate is both a naturally occurring and manmade contaminant increasingly found in groundwater, surface water and soil. Most perchlorate manufactured in the U.S. is used as an ingredient in solid fuel for rockets and missiles. In addition, perchlorate-based chemicals are also used in the construction of highway safety flares, fireworks, pyrotechnics, explosives, common batteries, and automobile restraint systems. Perchlorate contamination has been reported in at least 20 states. Perchlorate greatly impacts human health by interfering with iodide uptake into the thyroid gland. In adults, the thyroid gland helps regulate the metabolism by releasing hormones, while in children; the thyroid helps in proper development. Perchlorate is becoming a serious threat to human health and water resources. **“Perchlorate Material – Special handling may apply.”**

For more information, go to <http://www.dtsc.ca.gov/hazardouswaste/perchlorate/>

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