ZENESIS™

CAR SECURITY & REMOTE STARTERS

ZN-502 A/S/AS

USER MANUAL

ZENESIS
ELECTRONICS CORP

Thank you for purchasing our product. Our systems have all been designed and tested to be compatible with the earliest to latest vehicles available throughout the world. Our primary goal was to provide a reliable and stable product. Our secondary goal was to ensure that our systems are easy to install. Our final goal was to provide features that would benefit the user and installer. We are confident that our products will meet and exceed your expectations. We are constantly working to research, design, and build next generation products. We would not expect anything less since we

Attention: This product's antenna type is an Helical and permanently attached inner product and also comply with a FCC required standard section 15.203

Statement : This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful Interference, and (2) this device must accept any interference received, Including interference that may cause undesired operation.

The below a two product is market with a one Box

- **Two-way Remote Controller**
  FCC ID: WJ3ALC-502G

- **Two-way Main Controller**
  FCC ID: WJ3MB-SFG

Above product type is transceiver, accordingly the receiver portion of the respectively product is proceed a DoC under the Verification procedure

CAUTION!
PLEASE READ CAREFULLY

This device under provision section 15.21 of FCC Rule Part 15 that changes or modiications not epressly approved by the party responsible for compliance could avoid the user's authority to operate the equipment.

The user and installer should completely read the User Manual, Installation Manual, and the vehicle's manual completely before installing and operating this system. Not reading the manuals completely may result in injury or
damage to the user(s), installer(s), and/or the vehicle. Installation and use of this system is acknowledgment that the user and installer have fully read the manuals and indemnify Zenesis Electronics Corporation from any injuries or damages resulting from wrong use and/or installation of our system. Please take the following minimum precautions.

1. When using remote start, place the gear in Park(P) (automatic transmission) or Neutral (manual transmission) and set the parking brake (emergency brake).
2. The transmission (Tx) and reception (Rx) distance will vary from interference from other radio signals.
3. If any defects are discovered, do not open or attempt to repair the system. Ask the installer for assistance.
4. Zenesis Electronics Corporation will not be responsible for any theft and/or damages to your vehicle.
5. The user of this system will be responsible for any injuries and/or damages resulting from misuse.
6. Zenesis Electronics Corporation does not condone the installation of ANY remote starter equipped product into a convertible or open-concept type vehicle.
7. The user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

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1. INTRODUCTION

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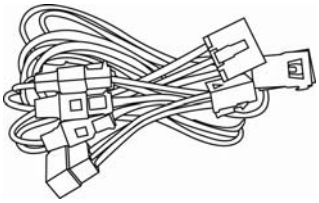
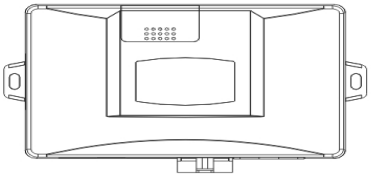
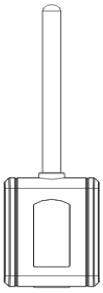
1.1 System Contents





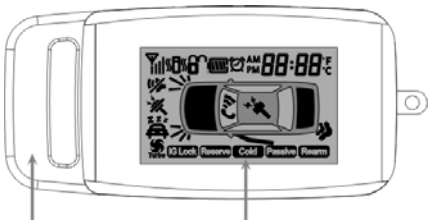
Main Control Module

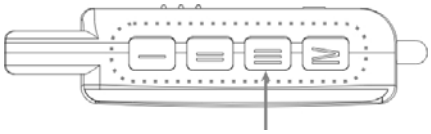
Remote Control

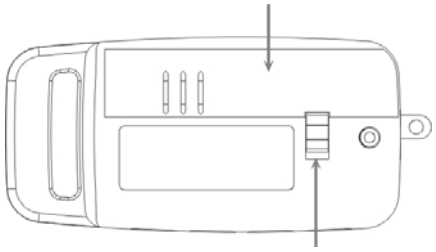


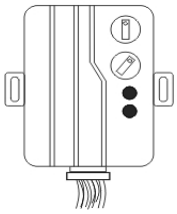
Antenna

Wiring Harness Z-PASS TOUCH

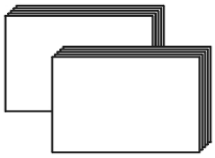




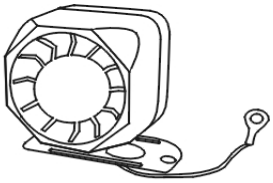




Shock Sensor



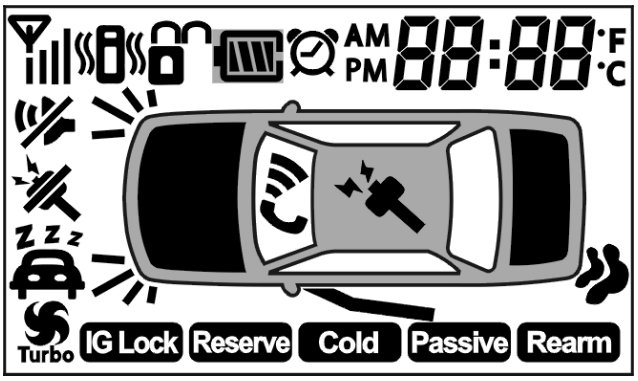
Manuals



Siren

1.2 Remote Control Button Layout

Front View



Antenna

OLCD / UCLCD

CAUTION

NEVER use the system except for its intended use. This is an electronic system with complex circuitry. Avoid dropping the components or cause any other physical damage as that will void the warranty.

Buttons

Battery 1.5 V

AAA

Back View

	Antenna
	Vibration
	Door Lock/Unlock
	Battery
	Alarm
88:88	Time, Turbo, Reserve
°F/°C	Temperature
	Siren ON/OFF
	Shock ON/OFF
	Valet ON/OFF
Turbo	Turbo Set
	Light ON/OFF

	Hood Open
	Car Owner Call
	Shock Alarm
	Door Open
	Trunk Open
	Remote Start Status
IG Lock	IG Lock
Reserve	Remote Start Timer
Cold	Cold Start Timer
Passive	Auto Arm Set
Rearm	Auto Rearm Set

Lock / Unlock

2-way Main Remote & Controller

Specifications

- Please see the page 26

Button(s)	Duration*	Description
I	0.5 sec	Arm / Door Lock
II	0.5 sec	Disarm / Door Unlock
III **× 3 Times**	0.5 sec	Remote Control Hold ON/OFF
IV	0.5 sec	Vehicle Status / Car Finder
I **-**	2+ sec	Panic
III **-**	2+ sec	Remote Start
IV **-**	2 sec	Trunk Release
II **~**	4 sec	Time / Alarm / Remote Start Timer Set
I **+** IV	0.5 sec	Remote Control Beep Mute ON/OFF
II **+** III	0.5 sec	Siren Mute ON/OFF
I **+** II	0.5 sec	Aux 1
III **+** IV	0.5 sec	Aux 2

1.3 LCD

Display Layout

1.4 Remote Control Button Introduction

LEGEND:

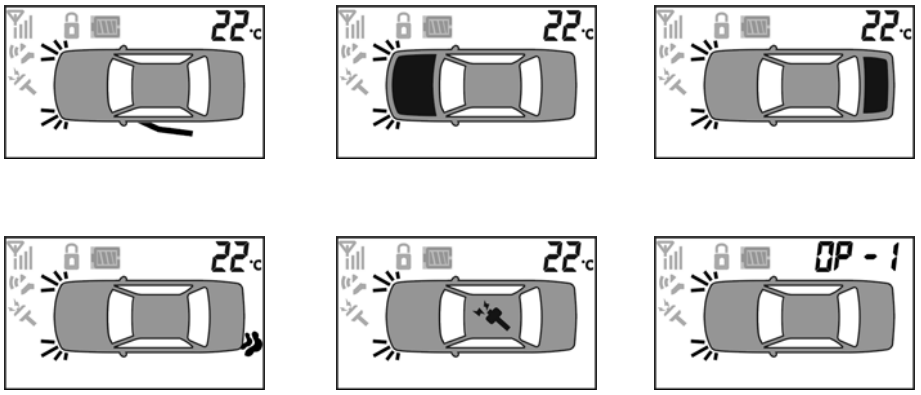
" - " means to hold for 2 seconds - press and hold button(s) until 1st beep is heard from the remote control.

" ~ " means to hold for 4 seconds - press and hold button(s) until 2nd beep are heard from the remote control.

Status	Z-Pass LED's
Armed Mode	Normal Flash
Disarmed Mode	No Flash
Triggered Alarm	Fast Flash

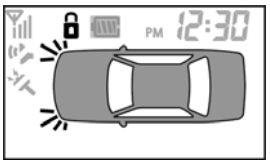
2. PRIMARY FEATURES 11

2.1 Arm (Door Lock)
2.2 Disarm (Door Unlock)
2.3 Arm / Disarm Status
2.4 Car Find & Status
2.5 LCD Screen Status
2.6 Panic
2.7 Remote Start
2.8 Trunk Release
2.9 Valet Mode



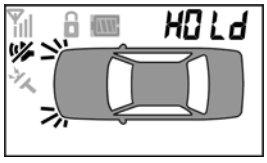
2.1 Door Lock (Arm) Button I 0.5 sec

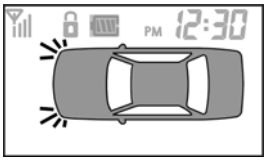
Successful Arm (Door Lock)



Remote Control	& flash. 1 beep will occur.
Vehicle	1 parking light flash & 1 siren chirp

Failed Arm (Door Lock)



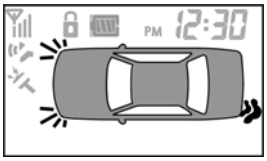


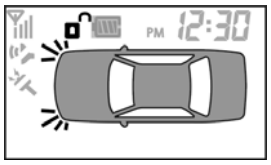
If a door, trunk and/or hood is open while arming, 4 siren chirps and 4 parking light flashes will occur immediately.

Please ensure any doors, trunk and/or hood that is open, is closed. Rearm the system.

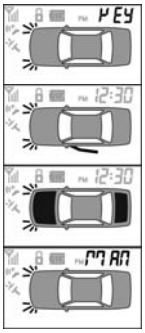
2.2 Door Unlock (Disarm) Button II 0.5 sec

Successful Disarm (Door Unlock)





Remote Control	& will blink until remote start is turned off. 1 beep will occur if the main control module communicates with the remote control. 5 beeps will occur after remote start is successful.
Vehicle	1 parking light flash & 1 siren chirp if the main control module communicates with the remote control. 5 parking light flashes & 5 siren chirps after remote start is successful.



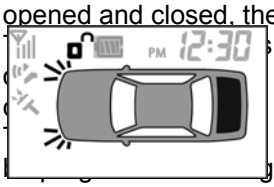
Reason for Failure	Vehicle	Remote Control
Key at ON Position	1 parking light flash & 1 siren chirp	3 beeps
Open Door	3 parking light flashes & 3 siren chirps	3 beeps
Open Hood and/or Trunk	4 parking light flashes & 4 siren chirps	3 beeps
Failed Remote Start Reservation for Manual Transmission Vehicles	7 parking light flashes & 7 siren chirps	3 beeps

Remote Control	& will flash. 2 beeps will occur.
Vehicle	2 parking light flashes & 2 siren chirps.

2.3 Arm / Disarm Status II 0.5 sec

After the alarm is triggered, pressing Button II will stop the siren from sounding. The system is still armed at this point. Pressing Button II again will disarm the system. The LED's on the Z-Pass module (while Discreet Mode is OFF) and

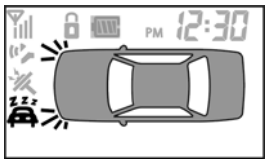
the
LED on the Antenna Module will indicate the status of the system. If a door is opened and closed, the



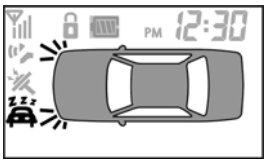
Remote Control	& & will blink. 2 beeps will occur.
Vehicle	2 x parking light flashes & 2 siren chirps

gh the User Programmable Options

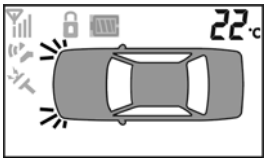
2.4 Vehicle Status / Car Finder Button Ⅳ 0.5 sec



Remote Control	& will blink. will stay ON.
Vehicle	1 parking light flash & 1 siren chirp



Remote Control	& will blink. will turn OFF.
Vehicle	2 parking light flashes & 2 siren chirps



Remote Control	6 blinks & the vehicle's inner temperature will be displayed. The following status indications will be checked and displayed. If the status is normal, only the temperature will be displayed. 4 beeps will occur.
Vehicle	6 parking light flashes & 6 siren chirps

Open Door Open Hood Open Trunk

Remote Start On Shock Sensor Trigger Option 1 Input Trigger

2.5 Remote Control Hold Button III 0.5 sec x 3 Times

Pressing Button III 3 times for 0.5 second each will put the remote control buttons into “Hold” mode. Any button presses will be ignored. To come out of “Hold” mode, press Button III 3 times for 0.5 second each again.

Hold ON Hold OFF

2.6 Panic Button I 2+ sec

If there is a potential threat, you can alert those around you by using this feature. The siren will sound for 2 minutes and the parking lights will flash. Press either Button I or Button II to turn off panic mode.

2.7 Remote Start Button III 2+ sec

Successful Remote Start

Failed Remote Start

If Button III is pressed for 2+ seconds while remote start is on, remote start will turn off. The default remote start engine running time is 15 minutes. The time can be changed through the User Programmable Options.

CAUTION: Do not use the remote start feature if the vehicle is in an enclosed area. Do not use the remote start feature where laws prevent its usage. Do not turn the key to the Start position or else damage may be done to the starter motor. Ensure that the parking brake (emergency brake) is always engaged. Do not use the remote start feature with convertible and/or open concept cars such as utility vehicles.

2.8 Trunk Release Button IV 2 sec

Trunk release will unlock the door(s) and disarm the system.
NOTE: On manual transmission vehicles, trunk release will turn off remote start.

2.9 Valet Mode Buttons I + III 4 sec

Valet Mode ON

Valet mode OFF

Valet mode without remote control (Emergency shut off)

1. Insert the key into the key cylinder and turn to the ON position.
2. Within 3 seconds, press the foot brake 6 times.
3. On the 6th press, hold down the foot brake until 1 parking light flash and 1 siren chirp occur.

NOTE: This feature can be used to turn off the alarm with the key if the system has been triggered.

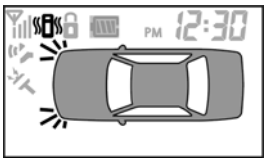
NOTE: Valet mode can only be turned off via the remote control.

3.SECONDARY FEATURES

3.1 Remote Control Beep Mute
3.2 Siren Mute
3.3 Passive Lock (Arm)
3.4 Safety Relock (Rearm)
3.5 Ignition Lock
3.6 Cold Start Timer
3.7 Turbo Timer
3.8 Option 1 Input
3.9 Remote Control Registration
3.10 Remote Start Reservation
3.11 User Programmable Options
3.12 Time, Time Alarm, Timer Remote Start Reservation Set
3.13 Aux 1 Output
3.14 Aux 2 Output
3.15 Shock Sensor Option
3.16 Shock Sensor Sensitivity Adjustment
3.17 Z-Pass Touch

3.1 Remote Control Beep Mute Buttons Ⅰ + Ⅳ 0.5 sec

Remote Control Beep Mute ON - Vibrate ON



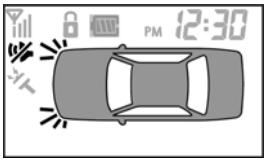
Remote Control	& will blink. will stay ON.
Vehicle	1 parking light flash & 1 siren chirp

When Remote Control Mute is ON, the remote control will use vibration alerts.

Remote control mute OFF - Beeper ON

3.2 Siren Mute Buttons Ⅱ + Ⅲ 0.5 sec

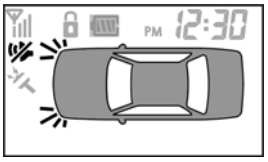
Siren Mute ON - Siren OFF



Remote Control	& will blink . will stay ON.
Vehicle	1 parking light flash & 1 siren chirp

No siren chirps will occur unless for alarm alerts (door trigger, hood trigger, trunk
trigger, shock trigger, and/or Option 1 trigger) and panic mode.

Siren Mute OFF - Siren ON

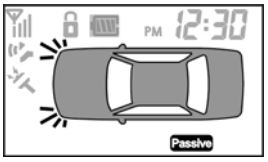


Remote Control	& will blink. will turn OFF.
Vehicle	2 parking light flashes & 2 siren chirps

3.3 Passive Arm (Lock) Buttons I + II 4 sec + Brake Pedal

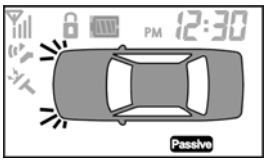
To activate or deactivate this function, the Brake Pedal must be held down at the same time while Buttons I + II are pressed for 4 seconds. Once a door is opened and closed and the system is not armed via the remote control, the system will automatically arm and lock the doors. The system will arm and lock the doors after 25 seconds of the last door closing. Every 5 seconds, 1 parking light flash and 1 siren chirp will occur. On the 5th occurrence, the system will arm and the doors will lock.

Passive Arm (Lock) ON



Remote Control	& will blink. Passive will stay ON.
Vehicle	1 parking light flash & 1 siren chirp

Passive Arm (Lock) OFF



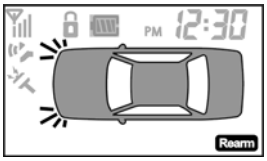
Remote Control	& will blink. Passive will turn OFF.
Vehicle	2 parking light flashes & 2 siren chirps

3.4 Safety Rearm (Relock) Buttons II + III 4 sec + Brake Pedal

To activate or deactivate this function, the Brake Pedal must be held down at the
same time while Buttons II + III are pressed for 4 seconds. If the system is in

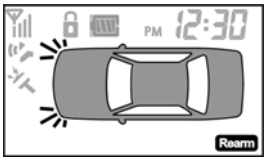
the
armed state and the system is disarmed but a door is not opened, the system will Safety Rearm automatically within 30 seconds.

Safety Rearm (Relock) ON



Remote Control	Rearm & will blink. Rearm will stay ON.
Vehicle	1 parking light flash & 1 siren chirp

Safety Rearm (Relock) OFF

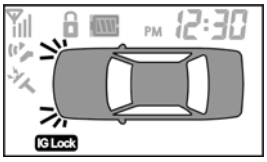


Remote Control	Rearm & will blink. Rearm will turn OFF.
Vehicle	2 parking light flashes & 2 siren chirps

3.5 Ignition Lock Buttons I + IV 4 sec

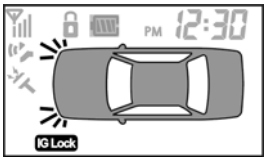
To activate or deactivate this function, the Brake Pedal must be held down at the same time while Buttons I + IV are pressed for 4 seconds. Ignition lock will lock the doors when the foot brake is pressed after the key is put into key cylinder and turned
to the ON position. If a door is opened while the key is in the ON position, the doors will lock again once the door is closed and the foot brake is pressed again.

Ignition Lock ON



Remote Control	IG Lock & will blink. IG Lock will stay ON.
Vehicle	1 parking light flash & 1 siren chirp

Ignition Lock OFF



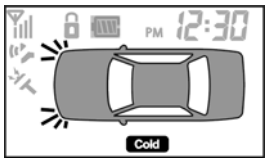
Remote Control	IG Lock & IG Lock will blink. will turn OFF.
Vehicle	2 parking light flashes & 2 siren chirps

3.6 Cold Start Timer Buttons II + IV 4 sec

To activate or deactivate this function, the Brake Pedal must be held down at the same time while Buttons II+ IV are pressed for 4 seconds. Once Cold Start Timer I s turned ON, the vehicle will remote start automatically every 1, 2, or 3 hour(s) as
specified by the User Programmable Options. If the vehicle is driven or

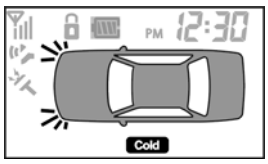
remote start
is turned ON, the timer will automatically restart once the engine is turned OFF. The timer can be set through the User Programmable Options.

Cold start timer ON



Remote Control	Cold & will blink. Cold will stay ON.
Vehicle	1 parking light flash & 1 siren chirp

Cold start timer OFF

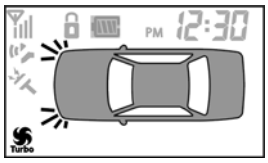


Remote Control	Cold & will blink. Cold will turn OFF.
Vehicle	2 parking light flashes & 2 siren chirps

3.7 Turbo Timer Buttons III + IV 4 sec

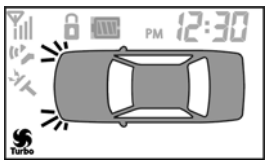
To activate or deactivate this function, the Brake Pedal must be held down at the same time while Buttons III + IV are pressed for 4 seconds. This feature will allow turbocharged or supercharged vehicles to cool down by idling the engine for a specified amount of time even though the key is turn to the OFF position. The engine will continue to idle.

Turbo Timer ON



Remote Control	Turbo & will blink. Turbo will stay ON.
Vehicle	1 parking light flash & 1 siren chirp

Turbo Timer OFF



Remote Control	Turbo & will blink. Turbo will stay OFF.
Vehicle	2 parking light flash & 2 siren chirp

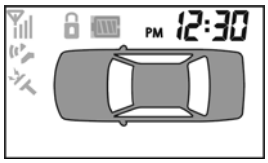
The duration for idling can be specified through the User Programmable Options.

CAUTION: Please ensure that the vehicle is in Park (automatic transmission) or Neutral (manual transmission). Also, ensure that the parking brake (emergency brake) is engaged. Do not idle the vehicle in an enclosed

area. Do not idle the vehicle if any laws prohibit this action. Do not idle the vehicle if it is a convertible or open concept type of vehicle.

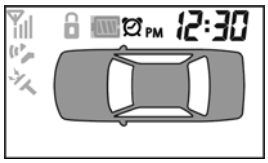
3.8 Option 1 Input

Additional sensors can be added to the system using Option 1 input. No additional programming is required. When the sensor is triggered, the parking lights will flash and the siren will sound.



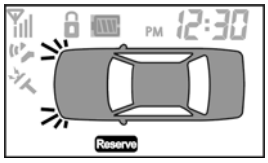
3.9 Remote Control Registration

1. Insert key and turn the key to ON position (engine is OFF).
2. Press brake pedal 4 times.
3. On the 4th press, hold the brake pedal down.
4. 3 parking light flashes and 3 siren chirps will confirm remote control programming mode.
5. Press Button Ⅰ (Lock Button) .



6. After each remote control is added, there will be a confirmation of 2 parking light flashes and 2 siren chirps. You can add up to 3 2-way remote controls and 2 1-way remote controls per system.
7. Once the key is turned to the OFF position or 10 seconds without adding a remote control passes, the system will exit remote control programming mode.

※ Each time a remote control is added, all remote controls must be reprogrammed to the system. Adding a remote control erases previously stored remote controls from the system.



3.10 Remote Start Reservation

 Manual transmission vehicles require remote start reservation in order to ensure that the vehicle is properly prepared for remote start. There are 2

remote start
reservation modes: automatic and manual. Please note that automatic and manual do not refer to the transmission type. Rather, automatic and manual refer to the type of remote start reservation.

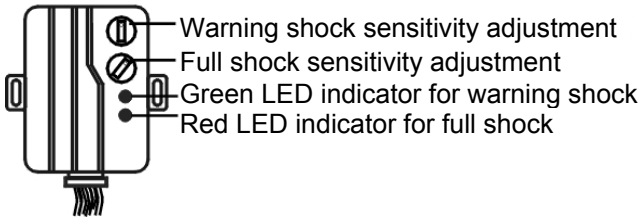
1. Automatic Remote Start Reservation (Default)
a. Before turning off the engine, put the transmission into Neutral. Ensure that the parking brake (emergency brake) is engaged. Take foot off of the foot brake.
b. Turn the key to the OFF position. The engine should still be running.
c. Exit the vehicle within 2 minutes.
d. Once the last door is closed, the engine will turn off.
e. Arm the system. Remote start is ready to be used.

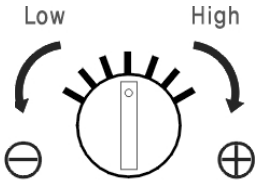
2. Manual Remote Start Reservation
a. Before turning off the engine, put the transmission into Neutral. Ensure that the parking brake (emergency brake) is engaged. Take foot off the foot brake.
b. Press Button III for 2 seconds.
c. Turn the key to the OFF position. The engine should still be running.
d. Exit the vehicle within 2 minutes.
e. Once the last door is closed, the engine will turn off.
f. Arm the system. Remote start is ready to be used.

NOTE1: Remote start reservation type can be changed through the User Programmable Options.
NOTE2: If a door, trunk, or hood is opened, remote start reservation will be cancelled and remote start will not be available.

3.11 User Programmable Options Buttons III + IV 2 sec

When you enter programming mode by holding Buttons **III** + IV for 2 seconds, you will hear 1 remote control beep. The parking lights will flash 1 time and the siren will chirp 1 time. You are now in programming mode. Follow the chart below for programming options.





User Option	Button Sequence	Options		
		I	II	III
Remote Start Run Time	IV → I	15 min	5 min	25 min
Diesel Warm Up Time	IV → II	30 sec	15 sec	7.5 sec
Siren Sound Time	IV → III	30 sec	70 sec	100 sec
Turbo Timer Run Time	IV → IV	1 min	2 min	5 min
Remote Start Reservation	III → IV	Automatic	Manual	
Cold Start Timer	III → III	1 hour	2 hours	3 hours
Shock Sensor ON/OFF	III → II	ON	OFF	
Temperature Unit	III → I	Fahrenheit	Celsius	

Default values.

For example, to select 5 minutes for Remote Start Run Time, hold Buttons **III** + IV for 2 seconds. You will hear 1 remote control beep, see 1 parking light flash, and hear 1 siren chirp. Within 5 seconds, press Button **IV**. You will hear 1 remote control beep to signify the first button press. Press Button **I** to enter the Remote Start Run Time menu. You will hear 2 remote control beeps to signify the second button press. Now, press Button II to select 5 minutes. You will hear 3 remote control beeps to signify the third button press. You will also hear 1 chirp and see 1 parking light flash.

3.12 Time, Alarm, Remote Start Timer Set Button II 4 sec

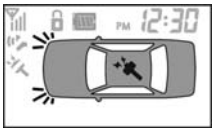
The time, alarm, and remote start timer can be set by holding down Button **I** for 4 seconds. The following buttons are used.

Button I : Time Menu (Time → Alarm→ Remote Start Timer)

4. Triggers

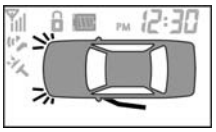
The following triggers will occur ONLY when the system is armed.

Shock Trigger



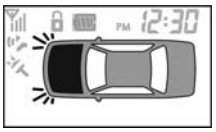
Remote Control	& will blink. The remote control will beep or vibrate.
Vehicle	Parking lights will flash and siren will sound.

Door Trigger



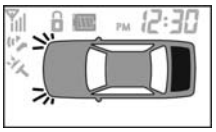
Remote Control	& will blink. The remote control will beep or vibrate.
Vehicle	Parking lights will flash and siren will sound.

Hood Trigger



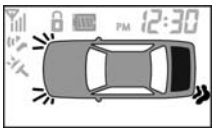
Remote Control	& will blink. The remote control will beep or vibrate.
Vehicle	Parking lights will flash and siren will sound.

Trunk Trigger



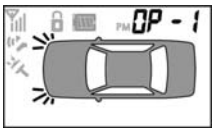
Remote Control	& will blink. The remote control will beep or vibrate.
Vehicle	Parking lights will flash and siren will sound.

Alarm Trigger During Remote Start



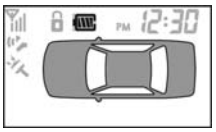
Remote Control	& will blink. The remote control will beep or vibrate.
Vehicle	Parking lights will flash and siren will sound.

Option 1 Trigger



Remote Control	OP - 1 & will blink. The remote control will beep or vibrate.
Vehicle	Parking lights will flash and siren will sound.

Low Battery



Remote Control	will blink. The remote control will beep every hour.
Vehicle	

Press and hold Button II for 4 seconds. Once the time starts to blink, toggle to Alarm and Remote Start Time and back to Time by pressing Button **I** for 0.5 second at a time.

Button II : Hours setting.
Press and/or hold Button **II** in order to increase the hours value.

Button III : Minutes setting.
Press and/or hold Button **III** in order to increase the minutes value.

Button IV: Confirmation or rejection.
Press and hold Button IV for 2 seconds in order to accept the desired time or press for 0.5 second in order to reject the set time.

NOTE : If a button is not pressed within 20 seconds of another press, programming mode will be exited.

1. Time - Clock Feature Displaying Current Time
   a. Press and hold Button II for 4 seconds. The time will begin to blink.
   b. Press Button I and Button III in order to adjust the hours and minutes.
   c. Press and hold Button IV for 2 seconds in order to confirm the set time.
2. Alarm - Clock Feature
   a. Press and hold Button II for 4 seconds. The time will begin to blink
   b. Press Button I for 0.5 second to toggle to Alarm setting.
   c. Press Button I and Button III in order to adjust the hours and minutes.
   d. Press and hold Button IV for 2 seconds in order to confirm the set time.
   e. The icon will appear.
3. Remote Start Timer Set - Remote Start will occur at the specified time if all constraints on remote start are met. Remote Start will occur each day at specified time until the feature is turned OFF.
   a. Press and hold Button II for 4 seconds. The time will begin to blink.
   b. Press Button I twice for 0.5 second each to toggle to Remote Start Timer setting.
   c. Press Button I and Button III in order to adjust the hours and minutes.
   d. Press and hold Button IV for 2 seconds in order to confirm the set time.
   e. The Reserve icon will appear.

WARRANTY CARD

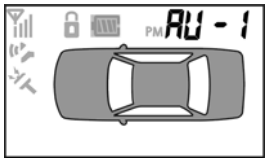
Use this warranty card for your records. Please go to www.zenesisalarms.com

Visit the link above for specific warranty terms and conditions.

ITU emission Code	8K50F1D
Oscillation Type	X-TAL
Modulation Type	FSK (Frequency shift keying)
Data Rate (Mbps)	1200 bps
Operation Frequency	433.920 ㎒
Channel Number	One Channel
Communication Type	Simplex(Two way)
Operation temperature	(-) 40℃ ~ (+) 80 ℃
Weight / Dimension	Remote Controller: 250 g / 66 (L) ㎜ x 30 (W) ㎜ x 15 (D) ㎜ Main Controller: 140 (L) ㎜ x 95 (W) ㎜ x 30 (D) ㎜
Power Source	Remote Controller: 1.5 Vdc (Alkaline battery), Size: AAA Main controller:: 12Vdc (Use the Car Adaptor)

3.13 Aux 1 Output Buttons I + II 0.5 sec

Aux 1 output can be used to control other devices such as window modules for rolling up or rolling down windows. Press Buttons III + IV for 0.5 second to activate Aux 1
output. 2 parking light flashes and 2 siren chirps will confirm output. The remote control will blink 2 times and beep 2 times.



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