

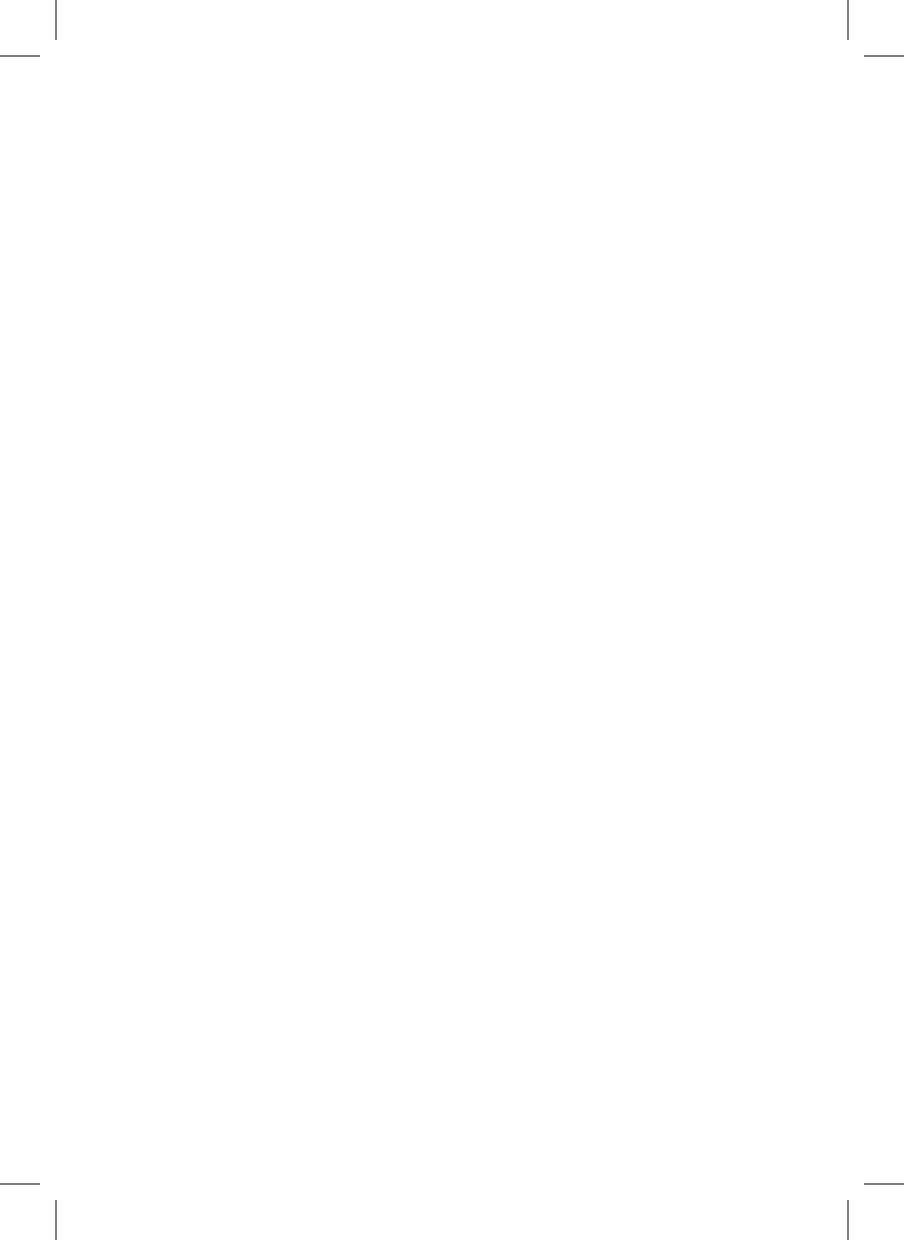


Model 5303

Owner's Guide

For Reference Only

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What you get

- One 5-button 2-way LCD transmitter
- One 4-button 1-way transmitter
- Owner's guide
- Warranty registration card

Important information

Congratulations on the purchase of your combination remote start alarm system. Due to the complexity of this system, it must be installed by an authorized dealer only. Installation of this product by anyone other than an authorized dealer voids the warranty. All dealers are provided with a preprinted dealer certificate to verify authorization.

By carefully reading this Owner's Guide prior to using your system, you will maximize the use of this system and its features. Please visit www.avital.com for general and additional guide information.

Government Regulations and Safety information



Read the *Government Regulations* and *Warning! Safety First* sections of this manual prior to operating this system.

Warning! Failure to heed this information can result in death, personal injury or property damage and may also result in the illegal use of the system beyond its intended purpose.

System maintenance

The system requires no specific maintenance beyond remote battery replacement. The remote is powered by a 1.5V AAA battery.

The battery level indicator has three level indicators that serve as a visual indication of battery charge. When the battery reaches a low charge level that requires replacement, the remote generates a single notification chirp, and the battery level indicator flashes continuously.



Battery replacement

Gently pull the battery cover release tab, then slide the door down to expose the battery and remove the expired battery. Place the new battery into the remote observing the correct polarity. When power is returned the all icons in the LCD are lit, and the remote plays a melody.

1-way battery replacement

The remote is powered by a small, lightweight 3-volt lithium battery (CR 2032) that last approximately one year under normal use. When the battery begins to weaken operating range is reduced and the LED on the remote dims.

Your warranty

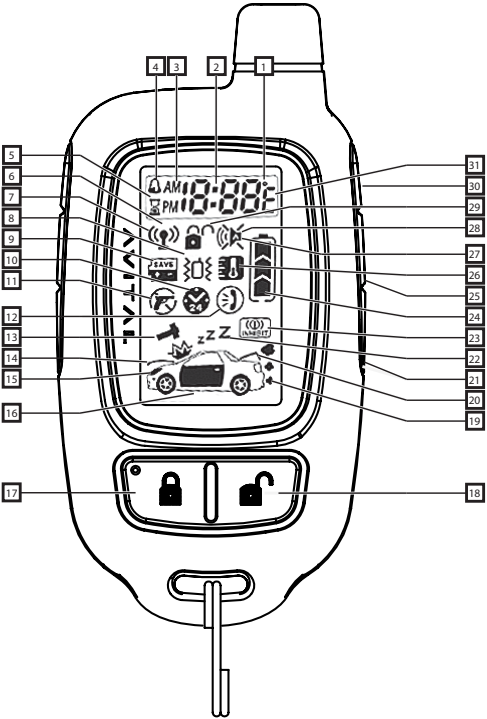
Your Avital system comes with a warranty. Make sure you receive the warranty registration card and proof of purchase from your dealer indicating the product was installed by an authorized Directed dealer. Please validate it online at www.prodregister.com/directed or complete and return the warranty registration card.

Caution

This product is designed for fuel injected, automatic transmission vehicles only. Use of this product in a standard transmission vehicle is dangerous and contrary to the product's intended use.

LCD 2-way remote



Display icons



- 1 Vehicle Interior Temperature Indicator
- 2 Numeric Display
- 3 AM/PM Indicator
- 4 Alarm Clock Mode Indicator
- 5 Timer Function Indicator
- 6 Transmit Range Indicator
- 7 Transmission Indication
- 8 Vibrate/Beep Mode Indicator
- 9 Power Saver Mode Indicator
- 10 No Function
- 11 No Function
- 12 Vehicle Page Mode Indicator
- 13 Full Trigger Shock Sensor Indicator
- 14 Hood/Trunk Open or Trigger Indicator
- 15 Parking Light Indicator
- 16 Door Open or Trigger Indicator
- 17 Arm/Lock Button
- 18 Disarm/Unlock Button
- 19 Remote Start Indicator
- 20 Hood/Trunk Open or Trigger Indicator
- 21 Remote Start Button
- 22 Valet® Mode Indicator
- 23 Remote Start Safety Shutdown Indicator
- 24 Battery Level Indicator
- 25 Auxiliary Button
- 26 Temperature-Controlled Remote Start Indicator
- 27 Silent Arm/Disarm Mode Indicator
- 28 Full Trigger Alert Indicator
- 29 Arm/Disarm Indicator
- 30 Function Button
- 31 Celsius/Fahrenheit Indicator

The remote buttons are used to send commands to the system. The descriptions below are for standard configuration.

Note: Button configurations in this section also apply to the 1 way remote control.

Important: Substitute the  icon for the  icon when using the 1 - way remote control.

Standard configuration



Button

Arming is controlled by pressing this button for 1 second, if held for 2 seconds Panic is activated.



Button

Disarming is controlled by pressing this button for 1 second.



Button

Silent Mode™ and an optional auxiliary function are controlled by this button. Silent Mode works by pressing it for less than one second before arming or disarming. An optional auxiliary function, such as trunk release, can be controlled by pressing this button for 1.5 seconds.

The auxiliary output controls _____.



Button

Remote Start is controlled by pressing this button for 1 second.



and  Buttons

An optional auxiliary convenience or expansion function that you have added to your system can be activated by pressing these buttons simultaneously.

The auxiliary output controls _____.



An optional auxiliary convenience or expansion function that you have added to your system is activated by pressing these buttons simultaneously.

The auxiliary output controls _____.



Timer mode is activated by pressing these buttons simultaneously.



Short-run turbo mode is activated (if connected) by pressing these buttons simultaneously.



Rear window defogger is controlled by pressing these buttons simultaneously.



Activate **Temperature Start mode** by pressing these buttons simultaneously after parking in a well ventilated area. The parking lights flash fast four times to confirm activation. The engine does not start once activated, it starts when the vehicle interior temperature drops below 0 degrees Fahrenheit.

Deactivate Temperature Start mode by pressing the same buttons again or turning the vehicle ignition on. The parking lights flash slowly four times to confirm deactivation.



An optional auxiliary convenience or expansion function that you have added to your system can be activated by pressing these buttons simultaneously.

The auxiliary output controls _____.



When pressed simultaneously these buttons display the internal temperature of the vehicle on the LCD.



The LCD backlighting will turn on when pressed for less than one second; when held for more than five seconds the remote will enter adjustment mode allowing the setting of the clock, timer mode, and audible melody selection. For more information, please refer to the Function Button Configurations section of this guide.



The numeric display toggles between the time of the day and the alarm clock when these buttons are pressed simultaneously.



Press these buttons simultaneously to activate the parking timer. Each additional press will toggle through the available options (10 min., 20 min., 30 min., 1 hour, 1.5 hours, 2 hours, and off).




When pressed simultaneously these buttons toggle between beep notification and vibrate notification.



When pressed simultaneously these buttons activate battery saver mode. The power consumption on the remote battery drops to zero when the alarm is inactive or disarmed.

Icon descriptions


 The vehicle interior temperature icon displays the temperature of the inside of the vehicle when prompted.

 The numeric display icon will show the hours and minutes.


 The AM/PM icon indicates the time before or after noon.


 The alarm clock mode icon indicates that the alarm clock mode is active.


 The timer function icon flashes during timed functions including parking timer.


 The transmit range indicator icon stays visible as long as the system is within operating range.



 The remote transmission indicator icon displays when the transceiver is transmitting a signal.


 The vibrate/beep mode icon appears when the remote is set to vibrate mode.


 The power saver mode can be turned on or off with the remote. This icon displays the status.

 The vehicle page mode icon displays when the alarm module is paging the remote. Page mode is activated when the Valet switch in the vehicle is pressed and held for 4 seconds.


 The full trigger shock sensor icon indicates that the shock sensor has been triggered by a hard shock.


 and  The hood/trunk open or trigger icon illuminates when the hood or trunk trigger has been activated or the hood or trunk is open, and bypasses those zones until it is closed.


 The parking light icon will flash twice when armed or disarmed. The icon also flashes during WarnAway and at the beginning and end of remote start cycles.

 The door open or trigger icon illuminates when the door trigger has been activated or the door is open, and bypasses that zone until it is closed.

 The remote start icon indicates when the vehicle is remotely started.

 The Valet mode icon appears when the system is in Valet mode.

 The remote start safety shut down icon indicates the vehicle may be in gear or other unsafe condition inhibiting remote start operation.

 The battery level icon indicates the level of power remaining in the battery.



The silent arm/disarm icon appears when the system has been armed or disarmed in the silent mode.



The full trigger alert icon illuminates when the security system has been triggered by a heavy impact, door trigger violation, optional sensor violation, or a hood/trunk trigger.



The arm icon appears when the vehicle is armed and locked. The disarm icon appears when the vehicle is disarmed and unlocked.



The Celsius/Fahrenheit icon indicates the current mode of the displayed temperature either in Celsius or Fahrenheit.

LCD remote settings

Function	Button (s)	Icon	Audio
Lamp On (10 sec)			
Power Saver Mode	+		Melody
Beep/Vibrate Mode	+		4 Vibrations/ 1 Beep
Time Adjust Mode (hour)**	+ for 5 secs.		2 beeps
Time Adjust Mode (min)**	1 Time***		
Alarm Clock Set Mode (hour)**	2 Times**		
Alarm Clock Set Mode (min)**	3 Times		
Alarm Clock Music or Power on Music Selection	4 Times***		5 Selections 1/2/3/4/5
Alarm Clock Adjust Mode (on/off)**	5 Times***		
Timer Count Down Adjust Mode (hour)**	6 Times***		
Timer Count Down Adjust Mode (min)**	7 Times***		
Timer Count Down Ending Melody Selection 1**	8 Times***		5 Selections 1/2/3/4/5
RS Timer Count Down Mode (on/off)	9 Times***		
Remote Start On Melody Selection 2	10 Times***		5 Selections 1/2/3/4/5

Function	Button (s)	Icon	Audio
10 Min Parking Count Down Mode	+ 1 Time		Melody
20 Min Parking Count Down Mode	+ 2 Times		Melody
30 Min Parking Count Down Mode	+ 3 Times		Melody
60 Min Parking Count Down Mode	+ 4 Times		Melody
90 Min Parking Count Down Mode	+ 5 Times		Melody
120 Min Parking Count Down Mode	+ 6 Times		Melody
Parking Count Down Off Mode	+ 7 Times		Melody
Alarm Clock Mode On/Off***	+		Melody
Celsius/Fahrenheit Select Mode	+ +	or	Melody

- * This function operates in the disarmed state only.
- ** The button advances the selection upward. The button advances the selection downward or select the off setting.
- *** Be sure to hold down for 5 seconds before entering time clock adjust mode operation.
- **** Press once to have the alarm clock on. Press twice to have the alarm clock off. The remote will revert to normal operation from the set mode when 15-seconds has elapsed without a button entry.

Remote operation

The remote start system operates at 434 MHz and incorporates Directed's proprietary A.S.K. out-board two-way remote. The high frequency combined with Binary Data communication achieves superior range with two-way communication.

Paging features

The control module sends a page to the remote as confirmation of a received command, or alarm system status.

When the remote receives a page notification, it beeps or vibrates and the alarm status, armed or disarmed, (the lock or unlock icon) appears on the LCD. If the alarm has been triggered, the remote LC displays the zone triggered. To clear the alarm page, press any button on the remote. The LCD information is also cleared.

Note: You will not be able to send a command, until the alarm page is cleared.

Warn away response description

A Warn Away® Response consists of an alarm page along with the responses described below.

- Shock Sensor - Light impacts to the vehicle will flash the vehicle lights and chirp the siren for a few seconds.
- Remote Control Notification - Ten quick beeps (or one vibration).
- Remote Control LCD - The full trigger alert icon (28) will dimly illuminate for two seconds
- The remote will enter Page Recognition Mode and operate alarm page alerts.

Note: Icons 13 and 14 represent alarm system zone inputs. For more information about icons and the zones they represent refer to the Standard Remote Configurations section.

Triggered response description

A Triggered Response can be activated by any of the triggers listed below and consists of an alarm page along with the response described for each trigger. The default Triggered Response duration is 30 seconds but can be programmed from 1-180 seconds by your installer with the Directed Bitwriter®.


- Sensor Trigger - Heavy impacts to the vehicle will instantly sound the siren and flash the lights for the programmed duration and report Zone 2.
- Door Trigger - If a door is opened the siren will chirp for three seconds, then the siren will sound and the lights will flash for the programmed duration and report Zone 3. The three seconds allow the user time to disarm the system with a minimum of noise should a door be opened inadvertently while the system is armed.




- Hood Trigger - Opening the hood will sound the siren, flash the lights for the programmed duration, and report Zone 1.
- Trunk Trigger - Opening the trunk (if connected) will instantly sound the siren and flash the lights for the programmed duration and report Zone 4.
- Ignition Trigger - If the ignition is turned on the siren will chirp for three seconds, then the siren will sound and the lights will flash for the programmed duration and report Zone 5.

When a Triggered Response is activated the transceiver will:




- Repeat four quick beeps (or vibrate) for 15 seconds.
- The full trigger alert icon (28) will turn on for 15 seconds.

Setting the clock

To set the clock press and hold  for five seconds, the transceiver will chirp twice and the hour selection will start flashing. Immediately press  to advance the hour selection or  to reverse the hour selection.

Once the correct hour is displayed press  again and the minute selection will start flashing. Then press  to advance the minute selection or  to reverse the minute selection. Once the correct time is displayed simply stop pressing all buttons for 15 seconds and the transceiver will automatically exit the clock mode.


Temperature check mode

This system will report the interior temperature of your vehicle with the press of three buttons. To activate the temperature display press ,  and  simultaneously and then release. You will hear a melody and the interior temperature will appear on the LCD screen for five seconds.

Note: If the ignition is on, the temperature check will not work.

Using the system

Active arming

You can arm the system by pressing  of your transmitter for one second. When the system arms, you hear a short siren sound, or chirp, and see the parking lights flash once. If the power door locks are controlled by the system, the doors also lock. While the system is armed, the status LED flashes approximately once per second, indicating that the system is actively protecting your vehicle. If you hear a second chirp after arming, and see the status LED flashing in groups, then consult the Diagnostics Section of this guide. This extra chirp is a Bypass Notification.

Passive arming

The system can be programmed to arm itself automatically (called passive arming). If the system is programmed for passive arming, it will automatically arm 30 seconds after the ignition is turned off and the system detects that you have left the vehicle by opening and closing a door. Whenever the system is in its 30-second passive arming countdown, the status LED will flash twice as fast as it does when the system is armed. At the 20-second point of the countdown, the siren will chirp to indicate that the system is about to arm. At the 30-second point, the parking lights will flash to indicate that the system is armed.



Note: If any protected entry point (such as a door or a switch-protected trunk or hood) is open, the system will not passively arm unless forced passive arming is programmed on. See Programming Options section.

When armed your vehicle is protected as follows:

- Light impacts trigger the Warn Away® signal. When triggered, the siren chirps and the parking lights flash for a few seconds.
- Heavy impacts trip a Triggered Sequence. The sequence consists of the siren sounding continuously and the parking lights flashing for a pre-programmed period, which can range in duration from 1 to 180 seconds.
- If a door is opened, the system will immediately start chirping the siren and flashing the parking lights. Three seconds later, the siren output changes to a continuous blast. This progressive response gives you time to disarm the system with your transmitter if you inadvertently open the door while the system is armed, while still providing instant response (even if the door is immediately closed).
- Turning on the ignition key will trip the same progressive response as opening a door.
- The optional starter kill prevents the vehicle's starter from cranking.


Multi-level security arming


Multi-Level Security Arming allows you to select which of the system's inputs or sensors will be active and which will be bypassed when the system is armed. (See Table of Zones section of this guide.)


Pressing  (only in Standard Configuration) again within five seconds of arming the system will activate the Multi-Level Security feature. Each time  is pressed, a different security level is selected.


To select the security levels:

Press  once: The siren chirps once. The system is armed.

Press  a second time within five seconds. The siren chirps twice followed by a long chirp. Zone 2 is now bypassed.

Press  a third time within five seconds: The siren chirps three times followed by a long chirp. Zone 4 is now bypassed.



Press  a fourth time within five seconds: The siren chirps four times followed by a long chirp. Zones 2 and 4 are now bypassed.

Press  a fifth time within five seconds: The siren chirps five times followed by a long chirp. All input zones, except the ignition, are now bypassed.

Note: Multi-Level Security Arming only applies to a single arming cycle. Once the system is disarmed and then re-armed, all the zones will be active again.

Arming while driving

Your security system can be armed while driving the vehicle.

Press  on the transmitter for two seconds while the vehicle is running. The siren will chirp once to indicate that the security system is armed, and then once more to indicate that the ignition is on. The system will not respond to any input except the door triggers, and the starter kill relay (if installed) will not be activated. Once you have arrived at your destination, the system will disarm when the ignition is turned off. The siren will chirp twice and the LED will then stop flashing. The system can also be disarmed at any time by pressing .


Disarming


To disarm the security system, press . You will hear two chirps, and the parking lights will flash twice.

If power locks are controlled by the system, the doors will also unlock. The siren chirping either four or five times when disarming indicates Tamper Alert, which is described in the Diagnostics Section of this guide.

High security disarm

This security system offers High Security Disarm. High Security Disarm is a feature that makes it possible to silence and reset the system while it is triggering, without disarming the system.

If the system is triggered and the siren has been sounding for longer than six seconds, pressing  on the remote transmitter will stop the trigger and return the unit to the armed state. The system will not disarm, but rather reset. This prevents you from disabling the system should you wish to disarm it without visually checking the vehicle.

Pressing  after resetting the system will disarm the system; pressing this button during the first six seconds of the triggered sequence will disarm the security system immediately. The six second timer is provided for your convenience, in case the system is accidentally triggered.

Disarming without a transmitter

If your remote transmitter is lost or damaged, you can manually disarm your vehicle security system. To disarm the system without a transmitter, you must have the vehicle's ignition key and know where the Valet switch is located. Be sure to check with your installer at the time of installation for both the location and the preset response (1-5 presses) of the Valet switch.

To disarm the security system:

1. Turn the ignition to the ON position.
2. Press the Valet button the preset number of times (one to five times) within 15 seconds.

After five seconds, the system will disarm. If the system does not disarm, you may have waited too long. Start over by turning the ignition off and on.


Location of Valet Button _____

Number of Presses _____

Important: The Valet button can be programmed to respond to 1-5 presses for the disarm function. You must check with the installer to verify the programming for your individual unit.

Silent mode

To temporarily turn off the arm or disarm chirps use Silent Mode™.

Press  for less than one second before arming or disarming to eliminate confirmation chirp (s) for that one operation only. If you want arm/disarm chirps turned off permanently, your dealer can do this for you.

The Warn Away® response to lighter impacts is bypassed if the system is armed using Silent Mode. This ensures that no chirps are emitted by the siren in an area you want chirp-free but the system is fully capable of triggering - only the Warn Away® response is bypassed.

Panic mode

If you are threatened in or near your vehicle, you can attract attention by triggering the system with your transmitter.

Press  for two seconds, to enter Panic Mode. The siren sounds and the parking lights flash for the programmed siren duration. To stop Panic Mode at any time, press  on the remote transmitter again.

Valet mode




You can prevent your security system from automatically arming and triggering by using Valet® Mode. This is very useful when washing the vehicle or having it serviced. In Valet Mode, the security system will not arm, even with the remote transmitter, but all convenience functions (door locks, trunk release, etc.) will continue to work normally.

To enter or exit Valet Mode:

1. Turn the ignition on.
2. Turn the ignition off.
3. Press and release the Valet button within 10 seconds.

The status LED lights solidly if you are entering Valet Mode, and goes off when you exit Valet Mode.

To enter or exit Valet Mode using the transmitter:

1. Open any vehicle door.
2. Press .
3. Press  and then press  again.

The status LED lights solidly if you are entering Valet Mode, and goes off when you exit Valet Mode.

Remote start

This feature allows you to remotely start and run your vehicle for a programmable period of time. This makes it possible to warm up the engine, as well as adjust the interior temperature of the vehicle with the climate control system. If interior heating or cooling is desired, the climate controls must be preset, and the fan blower must be set to the desired level prior to remote starting the vehicle.



Warning! (1) Never remote start your vehicle when the keys are in the ignition, except when performing Valet Take-Over, and (2) Never start the vehicle if it is not in PARK or NEUTRAL

To remote start the vehicle:

- Press  on the transmitter once.

The parking lights flash to confirm that the vehicle will attempt to start. With gas vehicles the engine starts 4seconds after the parking lights flash. With diesel vehicles the engine starts when the WAIT-TO-START indicator on the dashboard goes out or the programmed delay has ended.

Once the vehicle has started, it runs for the pre-programmed period of time (either 12, 24, or 60 minutes; See Programming Options section) or until a shutdown input is triggered.




Warning! It is unsafe to operate a vehicle's motor in a garage or other closed off area. Breathing the exhaust from the vehicle is hazardous to your health. Never activate the remote start in an enclosed space.

When you are ready to drive the vehicle:

1. Insert the ignition key and turn it to the On 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.

While the vehicle is running during remote start operation, the system monitors the vehicle and automatically shut downs the engine if the system receives any of the following:

- The brake pedal is pressed
- The hood is opened
- The shutdown toggle switch is put into the Off position.
- Runtime (12, 24, or 60 minutes) expires
- Transmitter button  is pressed once.

Rear defogger




To turn the rear defogger output OFF:

- Simultaneously press & release the  +  +  buttons on the remote control.

The lights will flash 2 times and the rear defogger output is no longer active when the vehicle is remote started.

Note: If the remote start is on the parking lights turn off then flash 2-times before returning to their normal output. The defogger output, if active, will cease.

To turn the rear defogger output ON:


1. Simultaneously press & release the  +  +  buttons on the remote control.
2. The lights will flash 3 times.
3. The rear defogger output will once again activate when the vehicle is remote started.

Note: If the temperature is greater than 55° F at the time of remote start activation, the rear defogger will not activate for that start.

Valet take-over

The Valet Take-Over 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 controls on.




To perform Valet Take-Over:

1. Before turning off the engine, press and release  on the transmitter (or press and release the optional momentary switch). Then wait five seconds.
2. Turn the ignition key to the OFF position. (The engine will stay running.) The engine will run until the pre-programmed time elapses or a shut-down input is received. (See the previous Remote Start section for a complete list of shut-down inputs.)

This feature will not work if the brake pedal is being pressed.

Timer mode

When you activate timer mode the system automatically starts the vehicle every three hours for a maximum of 6 starts. The pre-programmed engine runtime is 12 minutes.

- Press  and  to activate timer mode. The parking lights flash four times, and after a 1 second delay, the engine starts.
- To shutdown the engine, press the remote start button . The system remains in timer mode and will continue to start every 3 hours unless cancelled by turning on the ignition or by activating the brake, or neutral safety shutdown wires.
- The parking lights flash 4 times indicating timer mode is exited.

Important! Timer Mode should be used only in open areas. Never start and run the vehicle in an enclosed space such as a garage or carport.

Temperature start mode

 and  and  Buttons



Activate Temperature Start mode by pressing these buttons simultaneously after parking in a well ventilated area. The parking lights flash fast four times to confirm activation. The engine does not start once activated, it starts when the vehicle interior temperature drops below 0 degrees Fahrenheit.

Deactivate Temperature Start mode by pressing the same buttons again or turning the vehicle ignition on. The parking lights flash slowly four times to confirm deactivation.

Short-run/turbo

Short run turbo mode keeps the engine running after arriving at your destination for a programmable period of 1, 3, 5 or 10 minutes. This allows the system's timer to conveniently cool down the turbo after you have left the vehicle.

To activate:

1. Park the vehicle and set the parking brake.
2. Remove your foot from the brake pedal and leave the engine running.
3. Press and release the  and  buttons at the same time. The lights will flash to indicate the remote start has entered short run turbo mode.
5. Turn off the key, the engine will keep running.
6. Exit and secure the vehicle. The engine will turn off after the programmed run time.

Safety features

This system has several important safety features to ensure proper operation of the motor and prevent accidental damage to the engine or its components.

Starter-anti-grind circuitry

Whenever the vehicle is remote started, advanced anti-grind circuitry prevents the starter from engaging, even if the key is turned to the start position. This prevents damage to the starter motor if the key is turned to the start position during remote start operation.

Important: The Fail Safe starter kill option must be installed for this feature to work.

Disabling the remote start system

This feature allows your system's remote start unit to be temporarily disabled to prevent the vehicle from being remote started accidentally. This feature is useful if the vehicle is being serviced or stored in an enclosed area. To disable the remote start, move the shutdown toggle switch to the OFF position. The switch can be installed in a location of your choice. Check with your installer for recommended locations.

Location of Shutdown Switch_____

Shut down inputs

This security system uses several inputs to shut down the remote start operation of the motor or prevent remote start if certain inputs are active. The two most important are hood and brake inputs. The hood input will prevent the motor from starting, as well as shut it down, any time the hood is opened. The brake pedal will shut down the motor at any time during remote start operation, as well as preventing the remote start from activating while it is being pressed.

Nuisance Prevention Circuitry

Your system has Directed's Nuisance Prevention® Circuitry (NPC). It prevents annoying repetitive trigger sequences due to faulty door pin switches or environmental conditions such as thunder, jackhammers, airport noise, etc.

Example: If the alarm triggers three times within a 60-minute period and each time the same sensor or switch triggers the alarm, NPC will interpret those triggers as false alarms. After the third trigger, NPC ignores, or bypasses, that sensor or switch (along with any other sensors or switches sharing the same zone) for 60 minutes.

If the bypassed sensor tries to trigger the security system while it is being bypassed, the 60-minute bypass period will start over. This ensures that a sensor that is continually being triggered will remain bypassed. The vehicle doors are protected by NPC differently. If your security system is triggered by an open door for three full cycles, the system will bypass the doors until the trigger ceases.

Note: Arming and disarming the system does not reset this function. The only way to reset a bypassed zone is to not have it trigger for 60 minutes, or to turn on the ignition. If testing your system, remember that the NPC programming can cause zones to be bypassed and appear to stop working. If five chirps are heard when disarming, NPC has been engaged. If you wish to clear the NPC memory, turn the ignition on.

Diagnostics

The microprocessor at the heart of your system is constantly monitoring all of the switches and sensors connected to it. It is designed to detect any faulty switches and sensors and prevents them from disabling the entire system. The microprocessor will also record and report any triggers that occurred during your absence. Refer to the System Status Chirps and Table of Zones sections of this guide for diagnostic information.

Arming diagnostics

If the security system is armed at the same time that an input is active (such as a door opening or sensor triggering), you will hear one siren chirp to indicate arming and a second siren chirp to indicate Bypass Notification.

A Bypass Notification chirp means that the security system ignores the input that was active when the system was armed, until that input ceases.

Three seconds after that input ceases, the security system will resume normal monitoring. For example, if your vehicle has an interior light exit delay and you arm your security system before the interior light turns off, you may hear a second Bypass Notification chirp. Once the light turns off, however, the security system resumes normal monitoring.

Note: Bypass Notification does not occur when the system is in Silent Mode or if the notification chirps have been programmed off by the installer.

Disarming diagnostics

Extra chirps that are heard when disarming the system are the Tamper Alert. If four chirps are heard when disarming the system, then the security system was triggered in your absence. If five chirps are heard when disarming the system, a zone was triggered so many times that the Nuisance Protection® Circuitry has bypassed that zone. In either case, the status LED will indicate which zone was involved (see Table of Zones section). The security system will retain this information in its memory and chirp four or five times each time it is disarmed, until the next time that the ignition is turned on.

System status chirps

The siren will chirp when arming/disarming the system. The pattern of chirps will audibly report the system's status as described below.

Action	Number of Chirps	Description
Arm	1	System armed
Arm	1 (3-second delay) + 1	System armed with bypass notification
Disarm	2	System disarmed
Disarm	4	System disarmed with Tamper Alert
Disarm	5	System disarmed with NPC active.

Table of zones

A zone is represented by the number of LED flashes used by the system to identify a particular type of input. Standard input assignments are listed in the following table, along with spaces to write in any optional sensors or switches that have been installed.

Zone	Description	Dealer installed options
1	Trunk Pin	
2	Instant trigger: a heavier impact detected by the onboard shock sensor	
3	Door switch trigger	
4	Instant trigger: For optional sensors	
5	Ignition trigger	
6	Hood Pin	

Interpreting zone diagnostics

Warn Away responses are not reported by arming or disarming diagnostics. If you receive a Bypass notification when arming or a Tamper Alert notification when disarming, look at the LED in the vehicle. Active or triggered zones will be indicated by a pattern of blinks by the LED.


For example: If zone 3 was active or triggered, the LED will blink three times with a two-second pause. Then it will blink three times again, and repeat until the ignition is turned on.

Your system stores the last two triggered zones in memory. If your system has been triggered but the LED has been reset by turning on the ignition, your dealer can still recall the last two zones that were triggered. Contact your dealer for details.

Code hopping

The receiver and transmitters use a mathematical formula called an algorithm to change their code each time the transmitter is used. This technology has been developed to increase the security of the unit. The control unit knows what the next codes should be.

This helps to keep the transmitter “in sync” with the control unit even if you use the remote control out of range of the vehicle. However, if the remote has been pressed many times out of range of the vehicle, or the battery has been removed, it may fall out of sync with the control unit and fail to operate the system.

To re-sync the remote simply press  several times within range of the vehicle. The alarm will automatically re-sync and respond to the transmitters normally.

Owner recognition

Owner Recognition is a revolutionary feature available only from Directed. Using a Directed Bitwriter®, hand-held programming tool, your dealer can program many of the system settings. The programmer makes it possible to program different settings for each transmitter that is used with the system. Then, whenever a specific transmitter is used, the system will recall the settings assigned to that transmitter. Owner Recognition lets up to four users of the system have different settings that meet their specific needs. It is almost like having four separate alarms in your vehicle, one for each user.

Note: Owner Recognition cannot be programmed without a Bitwriter® and the necessary software. Check with your dealer for more information.

Rapid resume logic

This Directed system will store its current state to non-volatile memory. If power is lost and then reconnected the system will recall the stored state from memory. This means if the unit is in Valet Mode and the battery is disconnected for any reason, such as servicing the car, when the battery is reconnected the unit will still be in Valet Mode. This applies to all states of the system including arm, disarm, and Valet Mode.

Power saver mode

Your system will automatically enter Power Saver Mode while armed or in Valet Mode, after a period of time in which no operation has been performed. This lowers the current draw on the vehicle's battery. Power Saver Mode takes over under the following conditions:

- Power Saver when the system is armed: After the system has been armed for 24 hours the LED will flash at half its normal rate, decreasing the system's current draw.
- Power Saver in Valet Mode: When the system enters Valet Mode the LED illuminates steadily. If the vehicle is not used (ignition is not turned on) for a one hour period while the system is in Valet Mode, the LED will shut off. If the system remains in Valet Mode, the LED will come back on the next time the ignition is turned on and then back off.

Programming options

Programming options control your system's normal, operational set-up. Most options do not require additional parts, but some may require installation labor.

The following is a list of the programmable options, with the factory settings in Bold.

- **Active** arming (transmitter only) or passive arming (automatic arming 30 seconds after the last door has been closed).
- Arming/disarming siren chirps **on** or off.
- The ignition controlled door lock feature on or off: When this feature is programmed on, the doors will lock three seconds after the ignition is turned on, and unlock when the ignition is turned off. If your installer is programming the security system with the Directed Bitwriter, ignition lock and unlock are independent features that can be programmed separately.

Important: The vehicle doors must be closed for the ignition lock feature to work.

- Passive door locking (with passive arming) or **active door locking** (only when arming with the transmitter). Passive locking allows the vehicle's doors to lock when the security system passively arms (after the 30-second countdown). This feature only works if passive arming has been programmed.
- Panic mode **enabled**/disabled when the ignition is turned on. (Some states have laws against sirens sounding in moving cars.)

- Forced passive arming **on** or off. If your security system is programmed for passive arming and the forced passive arming feature has been programmed on, the system will passively arm after one hour, even if a protected entry has been left open. Forced passive arming ensures that the system will be armed if a door has accidentally been left ajar when leaving the vehicle.

When the system passively arms after one hour, the entry point that has been left open, and anything connected to the same zone, is bypassed and cannot trigger the system. However, the remaining inputs to the system are fully operational.

- Full trigger response **30** or **60** seconds: This determines how long the full triggered sequence lasts. Some states have laws regulating how long a security system can sound before it is considered a nuisance. If your installer is programming the security system with the Directed Bitwriter, the full triggered response can be programmed for any duration ranging from 1 to 180 seconds.
- Siren tones and chirp volume. The output of the Revenger™ Soft Chirp™ siren consists of six different tones in sequence. Any of these tones can be eliminated by a dealer, resulting in a unique, easily identifiable siren sound. The chirps can be either full volume or **6 decibels quieter** than the full alarm blast.

- 12, 24, or 60 minute run time. your system can be programmed to allow the vehicle to run for 12, 24, or 60 minutes when remote started. Can be set up to minute increments by your installer.
- 3, 6, 9, or 12 minute timer mode run time. Your system can be programmed to allow the vehicle to run for 3, 6, 9, or 12 minutes when remote started in timer mode. Can be set up to 16 minutes by your installer.

Note: If your installer is programming the system with the Bitwriter,® the remote start run time and the timer mode run time may be programmed for any duration ranging from 1 to 60 minutes.

- While the remote start system is running the engine, the parking lights of the vehicle can **flash on and off** or come on and light steadily.
- Comfort closure is a programming option which closes the vehicle's windows after remote locking.

Security & convenience expansions

Listed below are some of the many expansion options available. Please consult your dealer for a complete explanation of all the options available to you.

Audio Sensor: Metal on glass, glass cracking, and breaking glass produce distinctive acoustic signatures. The 506T audio sensor uses a microphone to pick up sounds, then analyzes them with proprietary acoustic software to determine if the glass has been struck.

Field Disturbance Sensor: An invisible dome of coverage is established by installing the 508D “radar” sensor. Your system can react to any intrusions into this field with the full triggered sequence.

Power Locks: This system offers lock outputs that can control some manufacturers’ power door lock systems. For other systems, additional parts may be required.

Power Trunk Release: The accessory output of the system can operate a factory power release for the vehicle’s trunk or hatch. Although the on-board relay can control most power trunk releases, sometimes an optional relay is required. If the factory release is not power-activated, Directed®'s 522T trunk release solenoid can often be added.

Power Window Control: Automatic power window control is provided with the 529T and 530T systems. These can operate power windows, and can roll them up automatically when the system is armed, roll them down, or both up and down.

Patent Information

This product is covered by one or more of the following United States patents:

Vehicle Security Patents

5,467,070; 5,532,670; 5,534,845; 5,563,576; 5,646,591;
5,650,774; 5,673,017; 5,712,638; 5,872,519; 5,914,667;
5,952,933; 5,945,936; 5,990,786; 6,028,505; 6,452,484

Remote Start

5,349,931; 5,872,519; 5,914,667; 5,952,933; 5,945,936;
5,990,786; 6,028,372; 6,467,448; 6,561,151; 7,191,053;
7,483,783

Other patents pending

Government Regulations

This device complies with Part 15 of 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 undesirable operation.

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 and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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, 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.

This device complies with the Industry Canada Radio Standards Specification RSS 210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interference to services authorized by IC. In addition, the user of this device must accept any radio interference that may be received, even if this interference could affect the operation of the device.

Warning:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Warning! Safety First

The following safety warnings must be observed at all times:

Due to the complexity of this system, installation of this product must only be performed by an authorized Directed dealer.

When properly installed, this system can start the vehicle via a command signal from the remote control transmitter. Therefore, never operate the system in an enclosed area or partially enclosed area without ventilation (such as a garage). When parking in an enclosed or partially enclosed area or when having the vehicle serviced, the remote start system must be disabled using the installed toggle switch. It is the user's sole responsibility to properly handle and keep out of reach from children all remote control transmitters to assure that the system does not unintentionally remote start the vehicle. THE USER MUST INSTALL A CARBON MONOXIDE DETECTOR IN OR ABOUT THE LIVING AREA ADJACENT TO THE VEHICLE. ALL DOORS LEADING FROM ADJACENT LIVING AREAS TO THE ENCLOSED OR PARTIALLY ENCLOSED VEHICLE STORAGE AREA MUST AT ALL TIMES REMAIN CLOSED. These precautions are the sole responsibility of the user.

Use of this product in a manner contrary to its intended mode of operation may result in property damage, personal injury, or death. (1) Never remotely start the vehicle with the vehicle in gear, and (2) Never remotely start the vehicle with the keys in the ignition. The user must also have the neutral safety feature of the vehicle periodically checked, wherein the vehicle must not remotely start while the car is in gear. This testing should be performed by an authorized Directed dealer in accordance with the Safety Check outlined in the product installation guide. If the vehicle starts in gear, cease remote start operation immediately and consult with the authorized Directed dealer to fix the problem.

After the remote start module has been installed, contact your authorized dealer to have him or her test the remote start module by performing the Safety Check outlined in the product installation guide. If the vehicle starts when performing the Neutral Safety Shutdown Circuit test, the remote start unit has not been properly installed. The remote start module must be removed or the installer must properly reinstall the remote start system so that the vehicle does not start in gear. All installations must be performed by an authorized Directed dealer.

OPERATION OF THE REMOTE START MODULE IF THE VEHICLE STARTS IN GEAR IS CONTRARY TO ITS INTENDED MODE OF OPERATION. OPERATING THE REMOTE START SYSTEM UNDER THESE CONDITIONS MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. YOU MUST IMMEDIATELY CEASE THE USE OF THE UNIT AND SEEK THE ASSISTANCE OF AN AUTHORIZED DIRECTED DEALER TO REPAIR OR DISCONNECT THE INSTALLED REMOTE START MODULE. DIRECTED WILL NOT BE HELD RESPONSIBLE OR PAY FOR INSTALLATION OR REINSTALLATION COSTS.

Limited lifetime consumer warranty

Directed Electronics. ("Directed") promises to the original purchaser to repair or replace (at Directed's election) with a comparable reconditioned model any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was purchased from an authorized Directed dealer, the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF PURCHASE FROM AN AUTHORIZED DEALER WILL BE DENIED. This warranty is non-transferable and is automatically void if: the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR REINSTALLATION OF THE UNIT OR ANY CONSEQUENTIAL DAMAGES OF ANY KIND.

IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE UNIT. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGE TO VEHICLE, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE SUBJECT TO THE CONDITIONS AS DESCRIBED HEREIN. THIS WARRANTY IS VOID IF THE UNIT HAS NOT BEEN PURCHASED FROM DIRECTED, OR AN AUTHORIZED DIRECTED DEALER, OR IF THE UNIT HAS BEEN DAMAGED BY ACCIDENT, UNREASONABLE USE, NEGLIGENCE, ACTS OF GOD, NEGLIGENCE, IMPROPER SERVICE, OR OTHER CAUSES NOT ARISING OUT OF DEFECT IN MATERIALS OR CONSTRUCTION.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State.

This warranty is only valid for sale of product(s) within the United States of America and in Canada. Product(s) sold outside of the United States of America or Canada are sold "AS-IS" and shall have NO WARRANTY, express or implied.

For further details relating to warranty information of Directed products, please visit the support section of Directed's website at: www.directed.com

This product may be covered by a Guaranteed Protection Plan ("GPP"). See your authorized Directed dealer for details of the plan or call Directed Customer Service at 1-800-876-0800.

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