

Cyber

[PUT A STOP TO CRIME]



Security system and convenience

[USER GUIDE]

MODEL
120XV

limited LL45 consumer warranty

For a period of five calendar year from the date of purchase of this auto-security device, Directed Electronics, Inc. promises to the ORIGINAL PURCHASER to repair or replace (with a comparable reconditioned model), free of cost, any electronic control module which proves to be defective in workmanship or material under normal use, SO LONG AS THE SYSTEM WAS SOLD, INSTALLED, AND SERVICED BY A PROFESSIONAL AUTO INSTALLER, AND REMAINS IN THE CAR IN WHICH THE SYSTEM WAS ORIGINALLY INSTALLED. If warranty service is necessary you must have a clear copy of your sales receipt containing all of the information shown on the following page.

*After the first calendar year, from the date of purchase of this auto-security device, Directed Electronics, Inc., promises to the ORIGINAL PURCHASER to repair or replace (with a comparable reconditioned model) any electronic control module which proves to be defective in workmanship or material under normal use **FOR A CHARGE OF \$45.00**, SO LONG AS THE SYSTEM WAS SOLD, INSTALLED, AND SERVICED BY A PROFESSIONAL AUTO INSTALLER, AND REMAINS IN THE CAR IN WHICH THE SYSTEM WAS ORIGINALLY INSTALLED. If warranty service is necessary you must have a clear copy of your sales receipt containing all of the information shown on the following page.*

This warranty contains the entire agreement relating to warranty and supersedes all previous and contemporaneous representations or understandings, whether written or oral. IN ANY EVENT, DEI IS NOT LIABLE FOR THE THEFT OF THE VEHICLE AND/OR ITS CONTENTS.

This warranty is void if the product has been damaged by accident, unreasonable use, neglect, improper service or other causes not arising out of defects in materials or construction. This warranty is nontransferable and does not apply to any unit that has been modified or used in a manner contrary to its intended purpose and does not cover batteries. The unit in question must be returned to the manufacturer, postage prepaid. This warranty does not cover labor costs for the removal, diagnosis, troubleshooting or reinstallation of the unit. For service on an out-of-warranty product a flat rate fee by model is charged. Contact your authorized dealer to obtain the service charge for your unit.

These systems are a deterrent against possible theft. Directed Electronics, Inc. is not offering a guarantee or insuring against the theft of the automobile or its contents and disclaims any liability for the theft of the vehicle and/or its contents. Directed Electronics does not authorize any person to create for it any other obligation or liability in connection with this security system.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ANY AND ALL WARRANTIES ARE EXCLUDED BY THE MANUFACTURER AND EACH ENTITY PARTICIPATING IN THE STREAM OF COMMERCE THEREWITH. THIS EXCLUSION INCLUDES BUT IS NOT LIMITED TO THE EXCLUSION OF ANY AND ALL WARRANTY OF MERCHANTABILITY AND/OR ANY AND ALL WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY AND ALL WARRANTY OF NON-INFRINGEMENT OF PATENTS, IN THE UNITED STATES OF AMERICA AND/OR ABROAD. NEITHER THE MANUFACTURER OR ANY ENTITIES CONNECTED THEREWITH SHALL BE RESPONSIBLE OR LIABLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, TOWING, REPAIR, REPLACEMENT, DAMAGES FOR LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE AS DESCRIBED ABOVE. 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 which vary from state to state.

Make sure you have all of the following information from your dealer:

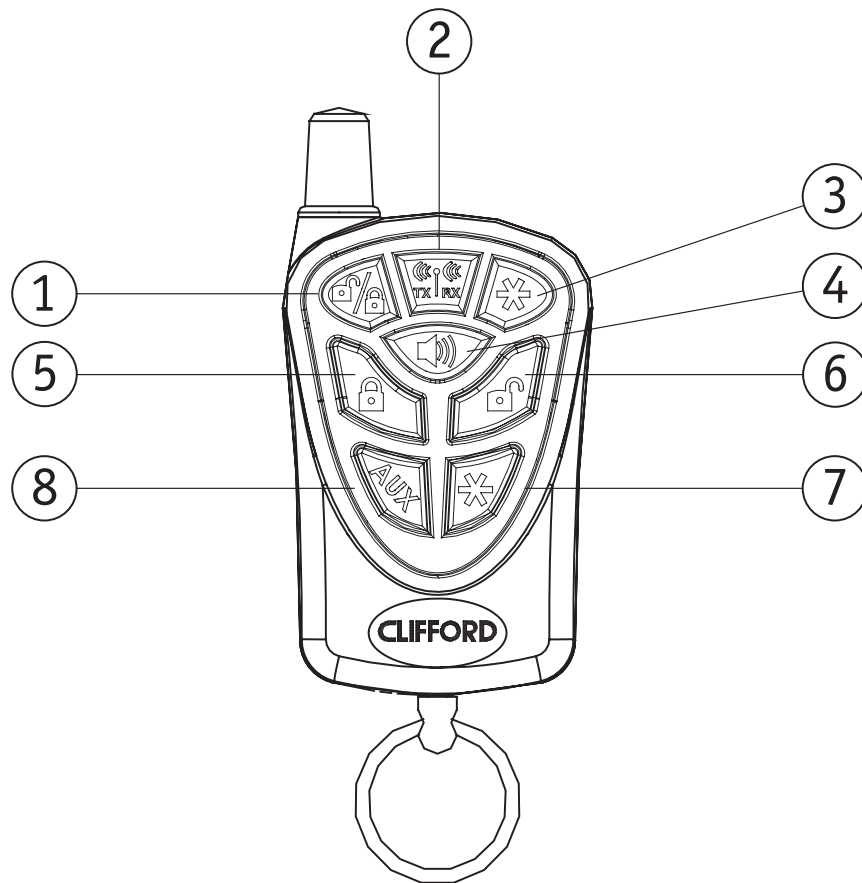
A clear copy of the sales receipt, showing the following:

- *Date of purchase*
- *Your full name and address*
- *Authorized dealer's company name and address*
- *Type of alarm installed*
- *Year, make, model and color of the automobile*
- *Automobile license number*
- *Vehicle identification number*
- *All security options installed on automobile*
- *Installation receipts*

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2-way remote control diagram



standard remote configurations

- | | |
|----|------------------------------------|
| 1. | Arm/Disarm Indicator (Orange) |
| 2. | Receive/Transmit Indicator (Green) |
| 3. | Auxiliary Indicator (Yellow) |
| 4. | Siren Indicator (Red) |
| 5. | Arm Button |
| 6. | Disarm Button |
| 7. | Panic Button |
| 8. | Auxiliary Channel Button |

what is included

- *One control module*
- *An XHF2 transceiver/antenna*
- *One 4-button 2-way remote*
- *Stinger® Doubleguard® dual-stage shock sensor*
- *Revenger® Soft Chirp® six-tone programmable siren*
- *In-vehicle status LED indicator light*
- *Push-button Valet® switch*
- *Your warranty registration*
- *Failsafe® Starter Kill ready circuitry*
(may require additional labor)

important information

Congratulations on the purchase of your state-of-the-art vehicle security system. This system has been designed to provide years of trouble-free operation. 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 preprinted dealer certificates to verify that they are authorized.

This owner's guide should help you to get the most out of your system. Please take the time to read it prior to using the system.

→ **system maintenance**

This system needs no specific maintenance beyond 2-way remote control battery replacement. The 2-way remote is powered by a 1.5V AAA battery.

Low Battery Notification

If the battery is low (and this feature is programmed On) the 2-way remote will emit 2 long beeps 5-seconds after a transmission is completed. The 2 long beeps will repeat every 25seconds up to 3 times (or until a 2-way remote button is pressed).

Battery Replacement

Gently pull the end of the battery door away from the top of the remote control then slide the door up to expose the battery and remove the expired battery. Place the new battery into the remote control observing the correct polarity. When power is returned the remote control will light all icons and generate melodies (representing all beeper tones).

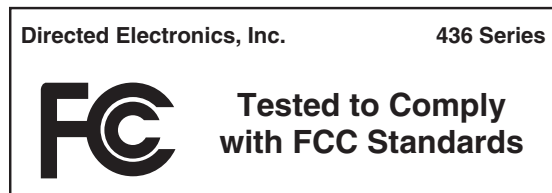
→ **your warranty**

Your warranty registration must be returned and the bar code serial number must not be removed. If the warranty registration is not returned, you do not have a warranty. It is also necessary to keep your proof of purchase, which reflects that the product was installed by an authorized dealer. Make sure that you receive the warranty registration from your dealer.

→ fcc/id notice

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.

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



2-way remote control functions

The 2-way remote control buttons are used to send commands to the system. The descriptions below reflect the standard configuration for this system. The buttons can be custom configured for the user's specific needs by the installer.

→ **standard button configurations**



Button

The System Arm and Multi-Level Security Arming functions are controlled by pressing this button for one second.



Button

The System Disarm and High Security Disarm functions are controlled by pressing this button for one second.



Button

Silent Mode™ and an optional auxiliary function are controlled by this button. Silent Mode works by pressing this button 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

The panic feature is controlled by pressing this button for 2-seconds.

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 _____.

remote operation

The remote start system operates at 434 MHz and incorporates Directed's proprietary XHF2 out-board technology transceiver. The high frequency combined with Binary Data communication achieves superior range with two-way communication.

system signal paging features

A page is the signal the control module sends to the remote control as confirmation of receipt of a command or alarm system status.

When the remote control receives a page it will generate a page notification to the user (notifications are audible beeps) and the LED Icons will display the current system status.

Command Page

When a command (arm/disarm, or auxiliary channel) from the remote control is sent and received, the system will send a command page back to confirm receipt.

Alarm Page

If the alarm system is triggered while armed, an Alarm Page will be sent to the remote control. When the remote receives an Alarm Page, the LED icons will display the alarm system status information and the remote control will generate beeps.

An Alarm Page alert is a series of 10 or 4 rapid beeps and the Red LED will illuminate. This will repeat every 100 seconds to alert the user that the alarm system was triggered and will continue until the alarm page is cleared.

If the shock sensor or optional sensor has triggered the alarm the remote will display the alarm page with 6 Red LED flashes and 10 rapid beeps.

If the trunk, door, ignition, or hood triggered the alarm the remote will display the alarm page with the Red LED illuminating for 3-seconds and 4 rapid beeps (repeated 5 times)

Page Recognition (Acknowledgement)

To clear a page alert/notification, quickly press any button on the remote control. This can be performed at any time during or after the page notification has occurred.

The remote control will not send a command to the system at this time; it will only clear future repeats of the page notification. The next time a button is pressed on the remote control it will send a command to the system.

→ out of range notification


If a command is issued from the remote, but the remote is beyond the range of the vehicle to receive the command, the remote responds with 2 sets of 3 quick beeps and the Green LED will flash 6-times.

programming 2-way remote


To enter programming mode

Press and hold all four remote control buttons simultaneously until one long beep is heard. Programming mode is now entered.


Beeps On/Off

Press  to select beeps On/Off. One beep is notification beeps On, Two beeps is notification beeps Off. The notification beeps are programmed On from the factory and can be programmed Off if they are not desired. When programmed Off the remote will only flash the LEDs as notification of a command page or an alarm page.

Remote battery low notification

Press  to select low battery notification On/Off. One beep is low battery notification On. Two beeps is low battery notification Off. The Low battery Beeps are programmed On from the factory and can be programmed Off if they are not desired. When programmed Off the remote will not give any notification that the battery charge level in the remote is low.

Page notification

The remote control can be programmed to notify the user of a page (audibly beeping if the vehicle's status changes, e.g. door unlocked, engine started, vehicle violation, etc.). Press  to select page On/Off. One beep is page On, Two beeps is page Off. When programmed off the remote will not give any notification that a page was received from the vehicle.


To exit programming mode

The remote control will exit programming mode after 2-seconds of inactivity and will emit 2 long beeps.

using your system

The buttons used in the instructions in this manual correspond to the standard configuration. Remember, this is not the only way your 2-way remote may be set up. It can be custom configured to meet your needs.

active arming

You can arm the system by pressing  of your 2-way remote for one second. When the system arms, from the vehicle you will 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 will also lock. While the system is armed, the in-vehicle's status LED will flash approximately once per second, indicating that the system is actively protecting your vehicle. If you hear a second chirp after arming and note that

the in-vehicle's status LED is flashing in groups, see the Diagnostics Section of this guide. This extra chirp is called Bypass Notification.

The remote responds to active arming with one beep and the Orange LED will flash 3-times to indicate successful arming of the system.

If after 2-seconds the remote beeps once and the Orange and Red LEDs flash 3-times, the system has detected an active sensor that should be checked.

If after 2-seconds the remote beeps once, the Orange LED flashes 6-times and the Red LED lights for 3-seconds, the system has detected an open door, hood or trunk and has been bypassed.

→ 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 in-vehicle 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.



The remote responds to passive arming with one beep and the Orange LED will flash 3-times to indicate successful arming of the system.






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.) Additionally, each time a sensor is triggered during the arming countdown, the 30-second countdown starts over.

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 2-way remote 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.*
- *Any full trigger of the alarm system will immediately send an alarm page to your remote informing you that your vehicle should be checked.*

→ 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 again, a different security level is selected. The different security levels are selected as follows:

- *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.


*After each press of the  to reach the next level of security, the remote will emit normal arm notification (1 beep and 3 flashes of the Orange LED). For easiest operation in reaching each level of security, press  immediately **after** each notification.*

→ **arming while driving**

Your security system can be armed while driving the vehicle! Simply press  on the 2-way remote 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 can be disarmed by pressing the  or by turning the ignition Off. The siren will chirp twice and the in-vehicle status LED will then stop flashing. The system can also be disarmed at any time by pressing .

The remote will respond with the normal arming response plus a diagnostic notification because the ignition On. When disarmed the remote will respond with the normal disarming response.

→ **disarming**

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




The remote will indicate disarm notification with 2 beeps and 3 flashes of the Orange LED. If disarming after the system has been triggered, the remote control will send a diagnostic notification as a reminder. These diagnostic notifications are:

1. *If a sensor triggered the system, the remote will beep 4-times and the Orange and Red LEDs flash 3 times.*
2. *If a switch (Zone 1, 3, 5, or 6) triggered the system, the remote will beep 4-times, the Orange LED will flash 6-times and Red LED will illuminate for 3 seconds.*
3. *If the system was triggered so many times that NPC is active the remote will emit the above notifications with 5 beeps instead of 4.*

→ high security disarm

This system includes High Security Disarm feature. If the system is triggered this feature allows the user to silence the siren and reset the system to the armed state without having to visually checking the system status.

After receiving an alarm page:

1. *First press any button on the remote to clear the alarm page.*
2. *Press either the  or  button again and the High Security disarm feature will be activated. The siren will be silenced and the system will reset to the armed state.*
3. *Pressing the  button once more will fully disarm the system and allow the vehicle to be accessed.*

NOTES: The first press of the remote button, while the remote is beeping, only clears the alarm page (no command is sent to the vehicle).

The transceiver transmits immediately upon system trigger and does not allow disarm during the first 6 seconds after trigger.

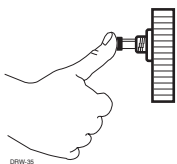
The 2-way remote will respond with a number of beeps and LED flashes according to whether a pinswitch, sensor, activated the alarm (and also if NPC is active).

→ **disarming without a 2-way remote**

This feature allows you to disarm the security system without the 2-way remote should it be lost, damaged, or disabled. In order to disarm the system without a 2-way remote, you must have the vehicle's ignition key and know where the Valet® button is located. Be sure to check with the installer for the location and the number of presses of the Valet® button required to disarm the system.



To disarm the security system, turn the ignition to the ON position.



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; turn the ignition Off and On and try again.

Location of Valet® Button _____

Number of Pulses _____

important! The unit can be programmed to respond to one to five pulses of the Valet® button for the disarm function. Be sure to check with the installer for the desired programming.

The remote will indicate disarm notification with 2 beeps and 3 flashes of the Orange LED.



→ **silent mode**

*To temporarily turn off the arm or disarm chirps, use Silent Mode™. Simply press **AUX** for less than one second before arming or disarming, and the confirmation chirp(s) will be eliminated for that one operation only. If you want the arm/disarm chirps turned off permanently, your dealer can do this for you.*

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

The remote responds with the normal arm/disarm notifications in silent mode. (If the remote has beeps programmed On, the remote will beep.)

→ panic mode

If you are threatened in or near your vehicle, you can attract attention by triggering the system with your 2-way remote. Just press  for two seconds, and you will enter Panic Mode. The siren will sound and the parking lights will flash for the programmed siren duration. To stop Panic Mode at any time, press  on the 2-way remote again.

The remote responds with one flash of the Red LED upon entering Panic Mode and two flashes of the Red LED upon exiting Panic Mode.

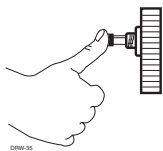
→ valet® mode

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 2-way remote, 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 once within 10 seconds.



The in-vehicle status LED will light solidly if you are entering Valet® Mode, and it will go out if you are exiting Valet® Mode.

The remote will respond with 3 Orange LED flashes on entering and 2 beeps and 3 Orange LED flashes on exiting Valet® Mode.

To enter or exit Valet® Mode using the 2-way remote:

1. Open any vehicle door.
2. Press .
3. Press .
4. Press  again.

The in-vehicle status LED will light solidly if you are entering Valet® Mode, and it will go out if you are exiting Valet® Mode. The remote responds with the normal arm/disarm notifications with each remote button press.

→ 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 system while it is being bypassed, the 60-minute bypass period will start over. This ensures that a sensor that continually triggers will remain bypassed.


Doors are covered by NPC® differently; if the alarm is triggered by an open door for three full cycles, the doors will be bypassed until the trigger ceases.



NOTE: Arming and disarming the system does not reset this function. The only ways to reset a bypassed zone are for it to not trigger for 60 minutes, or to turn on the ignition. If testing your system, it is important to 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 key on.



NPC® is programmable. See Programming Options section of this guide.

auxiliary outputs (options)

This system also supplies outputs that can control convenience options such as remote control trunk release and window automation. Consult your dealer for available options for your system.

Channel 2 Trunk release: When connected, pressing  for 1.5 seconds will remotely release the vehicle trunk lid.

Channel 4 auxiliary output: When connected, pressing  and  will immediately activate this output to control an additional convenience option.

Channel 5 auxiliary output: When connected, pressing  and  will immediately activate this output to control an additional convenience option.

The remote will respond with a page notification consisting of an output tone (once) and the Yellow LED will flash 3-times. This occurs at the remote after the system has received the command to activate any of the Auxiliary outputs.

diagnostics

The microprocessor at the heart of your security system is constantly monitoring all of the switches and sensors that are connected to it. It detects 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 charts 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.

→ disarming diagnostics

Extra disarm chirps are the Tamper Alert. If four chirps are heard when disarming, the system was triggered in your absence. If five chirps are heard, a zone was triggered so many times that Nuisance Prevention[®]

Circuitry has bypassed that zone. The in-vehicle status LED will indicate which zone was involved. (See Table of Zones section of this guide.) The system will retain this information in its memory, and continue to chirp four or five times each time it is disarmed, until the next time the ignition key 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 NPC active

→ **table of zones**

The zone number is the number of in-vehicle LED flashes used by the system to identify that input. The standard input assignments are listed below, along with spaces to write in any optional sensors or switches you have had installed.

Zone - Number of LED Flashes	Description	Dealer-Installed Options
1	Instant trigger - often used for hood/trunk pinswitches	
2	A heavier impact detected by the shock sensor	
3	Door switch trigger	
4	For optional sensors	
5	Ignition trigger	

→ 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 in-vehicle status LED. Active or triggered zones will be indicated by a pattern of blinks by this LED.

Example

If Zone 3 was active or triggered, the in-vehicle 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.

NOTE: 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 2-way remotes each use mathematical formulas called algorithms to change their codes each time the 2-way remote 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 2-way remote "in sync" with the control unit even if you use the 2-way remote out of range of the vehicle. However, if the 2-way remote has been pressed many times out of range of the vehicle, or if the battery has been removed, it may get out of sync with the control unit and fail to operate the system. To re-sync the 2-way remote simply press  of the 2-way remote several times within range of the vehicle. The alarm will automatically re-sync and respond to the 2-way remotes normally.

high frequency

Your system transmits and receives at 434 MHz. This provides a cleaner spectrum with less interference and a more stable signal. Enjoy a phenomenal increase in range – even in areas with high radio interference.

owner recognition

Owner Recognition is a feature available exclusively from Directed. Using the Directed Bitwriter, a hand-held programming tool, your dealer can program many of the system settings. The programmer makes it possible to program different settings for each 2-way remote that is used with the system. Then, whenever a specific 2-way remote is used, the system will recall the settings assigned to that 2-way remote. 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 Directed 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, VRS®, 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 to 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 in-vehicle 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 in-vehicle LED illuminates steadily. If the vehicle is not used (ignition is not turned on) for a period of one hour 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 what your system does during normal operation, and require few or no additional parts. However, some may require additional installation labor.

*The following is a list of the program settings, with the factory settings in **Bold**:*

- **Active arming** (only with the 2-way remote) or passive arming (automatic arming 30-seconds after the last door has been closed).
- Arming/disarming confirmation siren chirps **on** or off.
- The ignition controlled door lock feature **on** or off: With this feature on, the doors will lock three seconds after the ignition is turned on, and unlock when the ignition is turned off. The system will not lock the doors when the ignition is turned on with any door open. If your installer is programming the security system with the Directed Bitwriter, ignition lock and unlock are independent features and can be programmed separately.
- Passive door locking (with passive arming) or **active door locking** (only when arming with the 2-way remote). 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.

NOTE: When programmed for passive arming and active lock, if the system is disarmed without a door being opened, the system will relock the doors when it passively rearms.

- Panic mode **enabled**/disabled with the ignition on: Some states have laws against siren capability in a moving vehicle.
- Forced passive arming **on** or off: If your 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. This feature is useful if a door has been left ajar when leaving the vehicle. Forced passive arming ensures that the security system will be armed in every situation.

NOTE: 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.

- *Automatic Engine Disable (AED) on or **off**: The purpose of this feature is to protect the vehicle from being stolen at all times, regardless of whether or not the alarm is armed. If AED is programmed on, the starter of the vehicle will be disabled 30 seconds after the ignition is turned off. Once the key is turned off, the in-vehicle LED will flash slowly (one-half its normal armed rate) to indicate the AED arming cycle. Thirty seconds later, the starter of the vehicle will be disabled. To start the car, it will be necessary to disarm the system with the 2-way remote. It is also possible to disarm the AED feature by turning the ignition key to the RUN position and pressing the Valet® button the programmed number of times. AED is disabled when the system is in Valet® Mode.*

NOTE: This feature will only function if the Failsafe® Starter Kill relay has been installed.

- *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.*
- *Nuisance Prevention® Circuitry **on** or **off**: Please refer to the NPC®*


section of this manual for a complete explanation of how NPC® operates. If NPC® is programmed off, the security system will respond to inputs from any sensor indefinitely.

NOTE: Because many states have laws regulating security systems, programming NPC® off may cause your system to violate state laws.

- *Progressive door trigger **on** or off:* When the system is armed and a door is opened, the system responds with ten chirps prior to beginning the full triggered sequence. If an instant trigger is desired, the progressive door trigger can be programmed off.
- *Valet® pulse count:* The number of presses of the Valet® button required to disarm the security system, AED, or the VRS® system can be programmed from one to five presses. The default setting is **one** press.
- *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 your dealer, resulting in a unique, easily identifiable siren sound. The siren chirps can be either full volume or **six decibels quieter** than the full alarm blast.

installation options

The system has many options that may require extra parts and labor. Some of the possibilities are listed here.

- *Progressive unlocking: In most cars with electric power door locks, the system can be configured so that when the system is disarmed, only the driver's door unlocks. A second press of the  button unlocks the other doors.*
- *Vehicle Recovery System (VRS®): VRS® is an anti-carjacking device designed to help in the safe recovery of your vehicle in case of a carjacking. Please refer to the Vehicle Recovery System section of this guide for a complete explanation of how the Vehicle Recovery System operates.*

vehicle recovery system (vrs®)

The optional VRS® feature is designed to ensure that any unauthorized user of your vehicle (even if using your keys and 2-way remote) will not be able to permanently separate you from your vehicle.

The VRS® cannot prevent a carjacking attempt; however, it does ensure that if your vehicle is taken by an unauthorized user, it will be disabled (after several progressive warnings) as safely as possible. Should a carjacking occur, the VRS® allows you to concern yourself with your personal safety without worrying about your property.

Directed has engineered this vehicle security system, the Failsafe®

Starter Kill, and the VRS® feature to provide the best combination of personal safety and property protection available. When properly installed, the system can never inadvertently stop your vehicle in traffic or on railroad tracks while the vehicle is in operation. It is unlike other systems that shut down your engine while it is running. This system is designed to perform starter interrupt, or starter kill. The Failsafe® Starter Kill cannot shut down an already-running engine – it can only prevent an engine from starting in the first place.

important! Any installation that allows this product to shut down a vehicle's engine when it is running is contrary to the product's design and intended usage, and Directed hereby expressly disclaims any liability resulting therefrom.

→ **arming the vrs®**

To arm the VRS®, turn the ignition to the ON position and press the arm button on the 2-way remote for one second. The parking lights will flash and the siren will chirp once. This can be done before driving or while driving the vehicle. Once the system is armed, it will initiate its triggered sequence (see below) if any door is opened and closed. If you are forced from the vehicle, the system will trigger as the door is opened and closed. This is how the system works to combat intersection carjacking. To protect against parking lot carjacking, arm the VRS® before leaving the vehicle. The system will now trigger automatically the next time you or anyone drives the vehicle. This helps to protect the vehicle if someone takes your keys and 2-way remote by force in a parking lot.

NOTE: If the VRS® system is armed while operating the vehicle and not disarmed prior to leaving the vehicle, it is still armed and will trigger the next time the vehicle is driven.

→ vrs® triggered sequence

Fifteen seconds after the last door has closed, the in-vehicle LED will begin flashing. This delay is intended to allow you time to distance yourself from your vehicle in the event of a carjacking.

Forty-five seconds later, the siren begins chirping and the parking lights begin flashing. This time could be used to notify authorities that your vehicle has been hijacked, and tell them what the VRS® will do next.

Fifteen seconds after the siren chirps begin, the siren's output will change to a continuous blast.

From this point on, when the ignition key is turned off, the VRS® will immediately turn on the starter kill. This will prevent the vehicle from being restarted, thus immobilizing it at that spot.

Three minutes after the constant siren output begins, the flashing parking lights and the siren will stop. The starter kill will remain active until the system is disarmed. If the door is opened or the ignition is turned off and on in an attempt to restart the car, the siren and light flashing will begin again.

→ **disarming the vrs®**


Take the time to familiarize yourself with the VRS® triggering sequence and the disarm procedure. It is important to recognize and identify the VRS® trigger sequence and know how to disarm it in case of accidental activation.

Once the VRS® is armed, it does not disarm automatically. You must disarm it the next time you operate the vehicle. You must disarm it with one of the following procedures:

If the system has not entered the triggered sequence (siren has not started chirping):



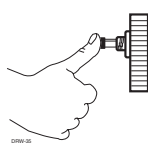
1. Turn the ignition on.

2. Press  on the 2-way remote for one second. The lights will flash and the siren will chirp twice.

If the system has entered the triggered sequence (siren has begun chirping), pressing the disarm button of the 2-way remote will not disarm VRS®. To disarm the VRS® during a VRS® trigger sequence:



1. Turn the ignition on.



2. Press the Valet® button the pre-programmed number of times to disarm the VRS system.

NOTE: If the VRS® system has begun its chirping sequence, the ignition must be turned off, then on to disarm. If you are driving the vehicle at the time, pull to a safe place away from traffic and follow the triggered sequence disarm procedure.

glossary of terms

2-Way Remote: *Hand-held, 2-way transceiver which operates the various functions of your system.*

Control Unit: *The "brain" of your system. Usually hidden under the dash area of the vehicle. It houses the microprocessor which monitors your vehicle and controls all of the system's functions.*

Fail Safe Starter Kill: *An automatic switch controlled by the security system which prevents the vehicle's starter from cranking whenever the system is armed. The vehicle is never prevented from cranking when the system is disarmed, in Valet® mode, or should the starter interrupt switch itself fail. Your system is ready for this feature, however installation may require additional labor.*

Input: *A physical connection to the system. An input can be provided by a sensor, pinswitch or through an existing system in the vehicle, such as ignition or courtesy lights.*

In-vehicle status LED: *A light mounted somewhere in the vehicle. It is used to indicate the status of your system. It is also used to report triggers and faults in the system or sensors.*

Shock Sensor: *This is a sensor mounted in the vehicle that is designed to pick up impacts to the vehicle or glass.*

Siren: *Noise generating device usually installed in the engine compartment of the vehicle. It is responsible for generating the "chirps" you hear, as well as the six tones you hear while the alarm is triggered.*

Trigger or Triggered Sequence: *This is what happens when the alarm "goes off" or "trips". The triggered response of your system consists of the siren sounding and parking light flashing for the programmed duration.*

Valet® Button: *A small push-button switch mounted somewhere inside the vehicle. It is used to override the alarm when a 2-way remote is lost or damaged, or to enter or exit Valet® mode.*

Warn Away Response: *Lighter impacts to the vehicle will generate the Warning Zone response. It consists of several seconds of siren chirps and parking light flashes.*

Zone: *A zone is a separate input that the alarm can recognize as unique. Each input to the system is connected to a particular zone. Two or more inputs often share the same zone.*

security & convenience expansions

Here we have listed only some of the many expansion options available. Please contact your dealer for a complete explanation of all the options available to you.

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

Backup Battery: *The 520T keeps the system armed, triggers the alarm and keeps the starter kill active if main battery power is disconnected.*

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

Headlight and Parking Light Automation: *The 545T Nite-Lite® will automatically turn on your parking and headlights when it gets dark. In addition, the 545T will turn your headlights on whenever the windshield wipers are used. A 2-way remote function can also be used to turn on your parking and headlights for a programmed time.*

Power Trunk Release: *The channel two output of the system can operate a factory power release for the vehicle's trunk or hatch. (An additional relay may be required.) If the factory release is not power activated, then 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.*


Mobile Video: *This system is compatible with Directed Video's MCB1000 Multi-Channel Controller, featuring on-screen security system programming and zone trigger information.*

Valet® Start System: *For the ultimate in convenience, the Valet® start system can start your vehicle, monitor engine functions, and power your climate control system with a push of a button. Over-rev protection, open-hood lockout, brake pedal shutoff, and automatic timer shutoff are all included. (This feature is only for automatic transmission, fuel-injected gasoline vehicles.)*


543T XHFplus External Receiver/Antenna: *The 543T XHFplus external receiver/antenna can be used to upgrade the transmitter/receiver performance in areas of high radio interference such as military bases, airports, and hospitals.*

QUICK REFERENCE GUIDE


To arm using your 2-way remote

- You can activate, or arm, the system by pressing  on your remote for one second. When the system arms, you will hear a short siren sound, or chirp, and the parking lights will flash once. If the vehicle's power door locks have been connected to the system, the doors will lock.

To disarm using your 2-way remote

- To disarm the system, press . You will hear two chirps, and the parking lights will flash twice. If power locks are connected to the system, the doors will unlock. If the siren chirps either four or five times when disarming, see Diagnostics section. This is called Tamper Alert.

Arming while driving

- Press  on your remote for two second while the vehicle is running. The system will chirp once and then once more to indicate that the ignition is on.

Disarming without a 2-way remote

- Turn on the ignition. Press and release the Valet® button the programmed number of times within 15 seconds. After five seconds, the system will disarm. If it does not, you may have waited too long. Turn the ignition off and on and try again.

To enter or exit Valet® Mode

- Turn ignition to RUN position, then turn to OFF position. Press and release the Valet® button within 10 seconds. The in-vehicle status LED will light solid if you are entering Valet® Mode, and it will go out if you are exiting Valet® Mode.


To activate Panic Mode

- Press and hold  down for one second.

To exit Panic Mode

- Press  on the remote.

To activate Silent Mode™

- Press  briefly before arming or disarming, and the confirmation chirp(s) will be eliminated for that one operation only.

Location of Valet® Button _____

Number of Valet® Button pulses for disarming _____

The company behind this system is Directed Electronics, Inc.

Since its inception, Directed has had one purpose, to provide consumers with the finest vehicle security and car stereo products and accessories available. The recipient of more than 20 patents in the field of advanced electronic technology, Directed is ISO 9001 registered.

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