

SECURIKEY+

PROGRAMMING AND TROUBLESHOOTING MANUAL

The SECURIKEY+ system is designed for use in vehicles equipped with the factory installed Power Door Lock System

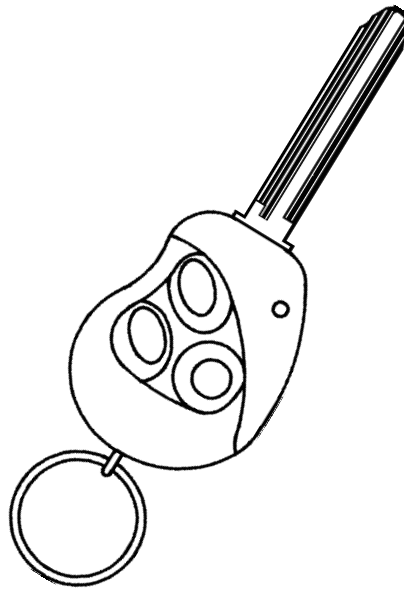


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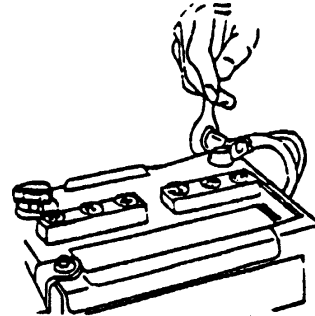
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PREPARATION FOR SYSTEM PROGRAMMING:

1. CONNECTING COMPONENTS:

CAUTION: THE SECURITY HARNESS MUST HAVE ALL VEHICLE CONNECTIONS INSTALLED PROPERLY AND ALL SECURITY COMPONENTS CONNECTED BEFORE CONNECTING THE VEHICLE'S BATTERY . FAILURE TO COMPLY WITH THIS CAUTION COULD RESULT IN SYSTEM FAILURE AND OR FAILURE TO PROGRAM PROPERLY.

THE SECURITY SYSTEM WILL GO INTO THE ALARM MODE WHEN THE BATTERY IS CONNECTED. PRESS THE UNLOCK BUTTON ON THE REMOTE TRANSMITTER TO DISARM THE SYSTEM.



IMPORTANT: PLEASE BE SURE TO READ AND BECOME FAMILIAR WITH THE PROGRAMMING INSTRUCTIONS BEFORE YOU ACTUALLY PROGRAM THE SYSTEM.

PROGRAMMING NEW or REPLACEMENT TRANSMITTERS TO THE SECURIKEY+ MODULE:

IMPORTANT NOTE : Once you enter the programming mode, if 15 seconds elapse with no activity on the system, the programming mode will be terminated. This is indicated by one soft chirp immediately followed by one loud chirp. If this happens, simply start over.

The SECURIKEY+ System should be disarmed before beginning ! You can disarm by either pressing the unlock button on a transmitter that is already programmed, or by using the valet switch.

STEP 1

START WITH VALET SWITCH OFF

STEP 2

TURN IGNITION KEY TO ON

STEP 3

VALET SWITCH ON THEN OFF 3 TIMES


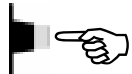

HORN SOUNDS

1 BEEP

CHANNEL 1	MEMORY POSITION # 1	MEMORY POSITION # 2	MEMORY POSITION # 3	MEMORY POSITION # 4
" LOCK "				


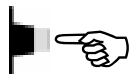

Now press the LOCK button (hold the button for 3 seconds until the horn sounds) on all transmitters that you want to program (up to 4), or continue on to the next step. Remember, when you're programming more than one transmitter, press the lock button on the first transmitter until the horn sounds, then press the lock button on the second transmitter, etc. *Never* activate two or more transmitters at the same time while in programming mode.

STEP 4

		 2 BEEPS	CHANNEL 2 " UNLOCK "	MEMORY POSITION # 1	MEMORY POSITION # 2	MEMORY POSITION # 3	MEMORY POSITION # 4
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Now press the UNLOCK button (hold the button for 3 seconds until the horn sounds) on all transmitters that you want to program (up to 4), or continue on to the next step.




STEP 5

		 3 BEEPS	CHANNEL 3 " TRUNK RELEASE "	MEMORY POSITION # 1	MEMORY POSITION # 2	MEMORY POSITION # 3	MEMORY POSITION # 4
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If the vehicle does not have the Trunk Release Upgrade Kit installed, proceed to step 6.




If the Trunk Release Upgrade Kit is installed into the vehicle, press the Green button (hold the button for 3 seconds until the horn sounds) on all transmitters that you want to program (up to 4), or continue on to the next step.

STEP 6

		 4 BEEPS	CHANNEL 4 " HEADLIGHT "	MEMORY POSITION # 1	MEMORY POSITION # 2	MEMORY POSITION # 3	MEMORY POSITION # 4
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If there are no SECURIKEY+ upgrade kits (IE: Trunk Release or Remote Starter) installed into the vehicle, press the Green button (hold the button for 3 seconds until the horn sounds) on all transmitters that you want to program (up to 4), or continue on to the next step.

STEP 7

		 5 BEEPS	CHANNEL 5 " DEDICATED PANIC "	MEMORY POSITION # 1	MEMORY POSITION # 2	MEMORY POSITION # 3	MEMORY POSITION # 4
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Do not program transmitter buttons to this channel. On the SECURIKEY+, the panic feature activates from the Lock button. Continue on to the next step.

STEP 8

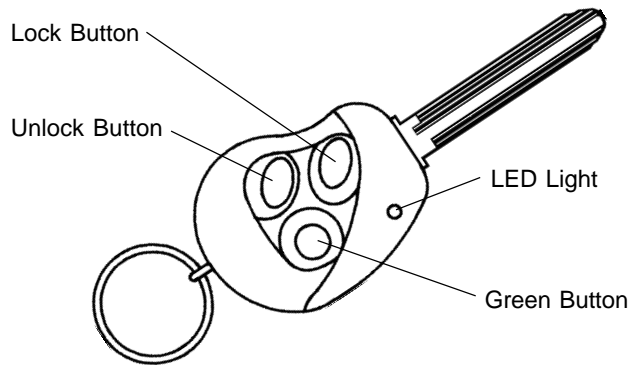
		 6 BEEPS	CHANNEL 6 " REMOTE START "	MEMORY POSITION # 1	MEMORY POSITION # 2	MEMORY POSITION # 3	MEMORY POSITION # 4
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If the Remote Start Upgrade Kit is installed into the vehicle, press the Green button (hold the button for 3 seconds until the horn sounds) on all transmitters that you want to program (up to 4), or continue on to the next step.

STEP 9

	 SOFT & LOUD BEEP	PROGRAMMING MODE TERMINATED
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TESTING THE ALARM SYSTEM:



A. Test **BOTH** remote transmitters, one at a time. Press and release the "LOCK" button. If the LED light on the transmitters fails to glow, you need to check the transmitter battery. (Refer to the section on battery replacement in the Owner's Manual.)

B. VALET CONTROL SWITCH:

1. Sit in the driver's seat, insert the ignition key and turn to the ON position.
2. Press the valet control switch and verify that the LED light responds. Light should go ON and OFF with actuation of the valet control switch.
3. With the LED indicator light ON, ignition OFF and key removed, the security system is in the valet mode and the alarm should not arm. Press and release the "LOCK" button; all doors will lock but the LED will not flash. Press and release the "UNLOCK" button; the driver's door will unlock.
4. Switch the ignition key ON, and turn the LED light OFF. Remove the key.

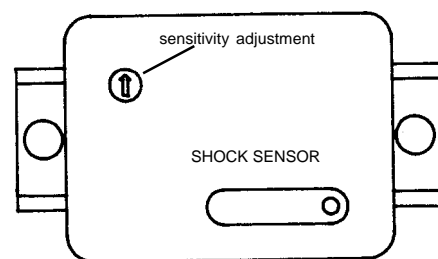
C. ARMING / DISARMING & PANIC:

1. Put the driver's window down and close the trunk, hood and all doors.
2. Press and release the "LOCK" transmitter button. All doors lock, parking lights flash once, horn chirps once, headlights come on for 20 seconds and the LED should flash slowly. (If the parking lights flash three times and the horn chirps three times, check for an open trunk, hood or door.)
3. Press and release the "UNLOCK" transmitter button. Driver's door unlocks, parking lights flash (2) times, the horn chirps (2) times, headlights and dome light come on for 20 seconds.

4. Press and hold the "LOCK" button to test the "Panic" function. The alarm should blow the horn in short continuous blasts and the parking lights and dome lights should be flashing. Press and release the "LOCK" button to stop "PANIC".

D. SHOCK SENSOR:

1. Press and release the "LOCK" button to arm the system. Wait 10 seconds, then with the open palm lightly slap the "A" pillar by the driver's windshield. You should hear short chirps from the vehicle horn. This is a check of the shock sensor "WARN-AWAY" function. Allow a few seconds for the shock to settle, then conduct the same check at various points around the vehicle. Sensitivity can be adjusted at the shock sensor for best response.
2. Slap the vehicle at the "A" pillar with slightly more force. The vehicle should go into full alarm. Press and release the "UNLOCK" button to disarm the system. Rearm the vehicle and conduct the same check at various points around the vehicle. Adjust sensitivity at the shock sensor for the best response.



TESTING THE ALARM SYSTEM [CONTINUED]:

E. DEFECTIVE OR LOST TRANSMITTER:

1. Press and release the "LOCK" button to arm the system. Use the key to unlock and open the driver's door. The alarm will sound. Enter the vehicle, insert the ignition key and turn to the on position. Press the valet control switch once, the alarm should deactivate and the vehicle should now start.

F. AUTOMATIC DOOR LOCK / UNLOCK:

1. With the system disarmed and all doors closed, insert the ignition key and start the vehicle. All doors should lock when the engine is started. The doors will not lock if any door is open when the car starts.
2. Turn the ignition OFF, the engine should stop and only the driver's door should unlock.

G. REMOTE TRANSMITTER OPERATION:

1. Press and release the "LOCK" button, the system should arm and lock all doors.
2. Press and release the "UNLOCK" button, the system will disarm and unlock the driver's door.
3. Press and release the "UNLOCK" button again, the system should unlock all doors.
4. Lock the doors with the vehicle door switch. Press and release the "UNLOCK" button, all doors should unlock.

H. HEADLIGHT ACTIVATION:

1. Press and release the "GREEN" button. The vehicle's headlights should turn on for 20 seconds...or until the ignition key is turned on.

I. INTRUSION TEST:

1. Rearm the security system by pressing and releasing the "LOCK" button. Open any door. The system should simultaneously sound the horn and flash the parking lights.
2. Disarm the security system by pressing and releasing the "UNLOCK" button. The system should sound (4) chirps of the horn, the parking lights should flash (4) times, indicating vehicle intrusion.
3. Perform another intrusion test by pressing the "LOCK" button, wait 10 seconds, then open the hood. The alarm should sound the horn indicating vehicle intrusion. Press and release the "UNLOCK" button to disarm the system and unlock the driver's door.
4. The LED should indicate the point of intrusion after disarming the system. Observe the LED for 1, or 3 flashes. Compare your observations to the following.

- (1) Flash = Shock Sensor or Trunk
- (2) Flashes = Hood
- (3) Flashes = Vehicle Doors

THE SYSTEM AUTOMATICALLY CLEARS ALL STORED VIOLATIONS WHEN THE IGNITION SWITCH IS TURNED TO THE "ON" POSITION.

PROGRAMMING THE SELECTABLE FEATURES:

The SECURIKEY+ system offers a number of selectable features that can be changed, allowing you to custom fit the system to your customer. The following is a list of the features that are selectable and can be changed using the valet switch and any transmitter that is programmed to the system installed in the vehicle.

FEATURE #	FUNCTION	1 CHIRP	or	2 CHIRPS
1	Headlights on for 20 seconds during disarm	<u>ON</u>	or	OFF
2	Headlights on for 20 seconds during arm	<u>ON</u>	or	OFF
3	Automatic ignition controlled door lock	<u>ON</u>	or	OFF
4	Automatic ignition controlled door unlock	<u>ON</u>	or	OFF
5	Auto unlock driver's door only or all doors	<u>Driver's Door</u>	or	All Doors
6	Active or Passive arming	Passive	or	<u>Active</u>
7	Active or Passive door locks	Passive	or	<u>Active</u>
8	Chirp Volume - Soft or Loud	Soft	or	<u>Loud</u>
9	Panic on lock button or option button	<u>Option</u>	or	Lock
10	Trunk Release hold 1 second or 2 presses	Hold 1 Sec	or	<u>2 Times</u>

To change the selection of any of these features, follow the step by step programming procedures, and do not allow more than 15 seconds to pass between any two steps or the system will terminate the programming mode. There is no need to complete the entire programming sequence. After the appropriate features have been changed, simply turn the ignition key off to terminate the programming mode.

1. Be sure that the SECURIKEY+ system is disarmed, and the lighted valet switch is in the off (out) position before you begin.
2. Turn the vehicle's ignition key to the on position.
3. Press then release the L.E.D. valet switch 6 times.
4. Immediately turn the ignition key off then back on.

FEATURE 1	LED Flashes 1 Time 1 Chirp = Headlights ON During Disarm	Horn Chirps either 1 or 2 Times 2 Chirps = Headlights OFF During Disarm
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To change the selection, press and release the lock button on the transmitter, which will be indicated by the appropriate 1 or 2 chirp signal from the horn. If you do not want to change this feature, simply press and release the L.E.D. valet switch 2 times to advance to programmable feature number 2.

FEATURE 2	LED Flashes 2 Times 1 Chirp = Headlights ON During Arm	Horn Chirps either 1 or 2 Times 2 Chirps = Headlights OFF During Arm
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To change the selection, press and release the lock button on the transmitter, which will be indicated by the appropriate 1 or 2 chirp signal from the horn. If you do not want to change this feature, simply press and release the L.E.D. valet switch 2 times to advance to programmable feature number 3.

FEATURE 3	LED Flashes 3 Times 1 Chirp = Ignition controlled door locks ON	Horn Chirps either 1 or 2 Times 2 Chirps = Ignition controlled door locks OFF
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To change the selection, press and release the lock button on the transmitter, which will be indicated by the appropriate 1 or 2 chirp signal from the horn. If you do not want to change this feature, simply press and release the L.E.D. valet switch 2 times to advance to programmable feature number 4.

FEATURE 4	LED Flashes 4 Times 1 Chirp = Ignition controlled unlock ON	Horn Chirps either 1 or 2 Times 2 Chirps = Ignition controlled unlock OFF
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To change the selection, press the lock button on the transmitter, which will be indicated by the appropriate 1 or 2 chirp signal from the horn. If you do not want to change this feature, simply press and release the L.E.D. valet switch 2 times to advance to programmable feature number 5.

FEATURE 5	LED Flashes 5 Times 1 Chirp = Ignition controlled unlock DRIVER'S DOOR	Horn Chirps either 1 or 2 Times 2 Chirps = Ignition controlled unlock ALL DOORS
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To change the selection, press the lock button on the transmitter, which will be indicated by the appropriate 1 or 2 chirp signal from the horn. If you do not want to change this feature, simply press and release the L.E.D. valet switch 2 times to advance to programmable feature number 6.

FEATURE 6	LED Flashes 6 Times 1 Chirp = PASSIVE ARMING (Automatic Arming)	Horn Chirps either 1 or 2 Times 2 Chirps = ACTIVE ARMING (Arm by Remote Only)
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To change the selection, press the lock button on the transmitter, which will be indicated by the appropriate 1 or 2 chirp signal from the horn. If you do not want to change this feature, simply press and release the L.E.D. valet switch 2 times to advance to programmable feature number 7.

FEATURE 7	LED Flashes 7 Times 1 Chirp = PASSIVE DOOR LOCKS	Horn Chirps either 1 or 2 Times 2 Chirps = ACTIVE DOOR LOCKS
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To change the selection, press the lock button on the transmitter, which will be indicated by the appropriate 1 or 2 chirp signal from the horn. If you do not want to change this feature, simply press and release the L.E.D. valet switch 2 times to advance to programmable feature number 8.

FEATURE 8	LED Flashes 8 Times 1 Chirp =SOFT Horn Chirps	Horn Chirps either 1 or 2 Times 2 Chirps = LOUD Horn Chirps
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To change the selection, press the lock button on the transmitter, which will be indicated by the appropriate 1 or 2 chirp signal from the horn. If you do not want to change this feature, simply press and release the L.E.D. valet switch 2 times to advance to programmable feature number 9.

FEATURE 9	Do not change this feature selection. It should be left in the factory preset (1 chirp) mode. Press and release the L.E.D. valet switch 2 times to advance to programmable feature number 10.
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FEATURE 10	Do not change this feature selection. It should be left in the factory preset (2 chirp) mode. Press and release the L.E.D. valet switch 2 times to terminate the feature programming mode.
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WHAT IS A RECEIVER CHANNEL ?

The SECURIKEY+ control module includes a *6 Channel Receiver*, and each channel can learn and memorize four different transmitter codes. Each receiver channel is reserved for a particular remote control function of the system.

The chart shown below is a diagram of the actual configuration of the memory positions available in the SECURIKEY+ main control module. As you can see, the module can store transmitter codes in (4) different memory positions (A,B,C, & D) for each of the (6) different receiver channels (or functions). In total, the module is equipped with storage for 24 different transmitter codes, four for each function.

RECEIVER CHANNEL / SYSTEM FUNCTION	MEMORY POSITION A	MEMORY POSITION B	MEMORY POSITION C	MEMORY POSITION D
Channel 1 - Lock & Remote Panic	1A	1B	1C	1D
Channel 2 - Unlock	2A	2B	2C	2D
Channel 3 - Trunk Release	3A	3B	3C	3D
Channel 4 - Remote Headlight Activation	4A	4B	4C	4D
Channel 5 - Optional Panic from Green Button	5A	5B	5C	5D
Channel 6 - Remote Starter	6A	6B	6C	6D

WHAT IS A TRANSMITTER CODE ?

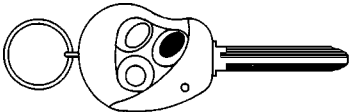
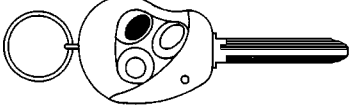
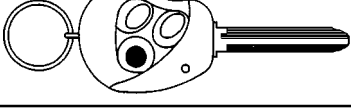
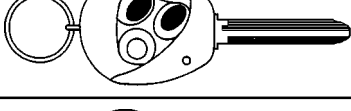
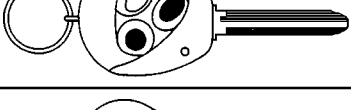


It is important to remember that the description " transmitter code " does not refer to an actual transmitter, but instead refers to a button of a transmitter. This alone is the one key point that many security technicians do not completely understand, and this can cause some confusion. With that in mind, please refer to the chart at the right.

As you can see in these diagrams, each SECURIKEY+ transmitter is capable of producing 7 different *transmitter codes* by activating the button (s) that are shaded black. In the industry, the codes are typically referred to as *transmitter channels*, and as you can see the SECURIKEY+ key is a *7 channel transmitter*.

Another important fact is that no two SECURIKEY+ transmitters are identical. This is actually not a fact, and the fact is that out of every 16,777,216 transmitters produced, two will be identical; but for this discussion it is safe to say that no two SECURIKEY+ transmitters are identical. The reason that this point comes up is to understand that if you have (2) SECURIKEY+ transmitters, you have access to 14 different transmitter codes, **and not** 7 codes twice.

Some other important facts that you will want to know and understand are;

- ⇒ An individual transmitter code (button) can be learned and stored into all 4 memory positions of a single receiver channel.
- ⇒ Each individual transmitter code can be learned and stored into only one receiver channel of each system. This means that a transmitter button (code) can not be learned to activate both receiver channel 1 (lock) and receiver channel 2 (unlock).
- ⇒ When a new transmitter is learned, any code stored in memory position D is erased. The new code is stored in position A, and the other codes are advanced (A to B ; B to C ; C to D).

TRANSMITTER CODE NUMBER	TRANSMITTER BUTTON ACTIVATION
TRANSMITTER CODE 1	
TRANSMITTER CODE 2	
TRANSMITTER CODE 3	
TRANSMITTER CODE 4	
TRANSMITTER CODE 5	
TRANSMITTER CODE 6	
TRANSMITTER CODE 7	

WHY IS THIS INFORMATION IMPORTANT ?

Let's first consider that any SECURIKEY+5 transmitter code or button can be programmed into any one of the six receiver channels of the system. The system will allow you to program transmitter code 1 (lock button) into receiver channel 4 (headlight activation), but since the lock and unlock buttons are clearly marked with icons describing their function, these two buttons should always be programmed into receiver channels 1 and 2.

Since the system will allow you to program these buttons into the wrong receiver channel, it is very important that you listen to the chirps from the horn when you enter the programming mode. The horn will always tell you which receiver channel that you have progressed into for programming; just simply count the number of chirps from the horn.

Now, if you have mistakenly programmed the lock button into receiver channel 4, when you test the system the lock button will not lock the doors or arm the alarm, but it will turn the headlights on, as this is the correct function of receiver channel 4. Next when you attempt to re - program that same transmitter, you find that when you advance to receiver channel 1, then press the lock button, the system will not learn the remote (indicated by the loud horn chirp). It is important to know that this is not a defective transmitter or module, and you will just need to " clear " the transmitter code from the incorrect receiver channel.

CLEARING TRANSMITTER CODES FROM MEMORY:

"QUICK CLEARING" PROCEDURE:

- A. This procedure will erase all previously coded transmitter buttons, clearing the way to allow trouble free programming of the required transmitters. After you have cleared all transmitter codes, you **must reprogram the original transmitter to the system**. To clear the security system memory, proceed as follows:

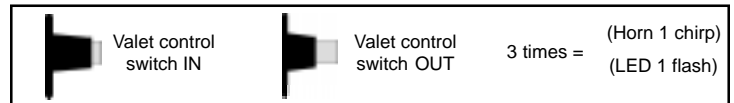
Disarm the system. Valet/LED control switch should be in the "OFF" position before you start.



Insert ignition key, turn to "ON" position.



Press the valet control switch IN then OUT 3 times. (The horn will chirp (1) time and L.E.D. flashes (1) time to indicate the system is in the program mode.)



Turn ignition key "OFF" to "ON" 3 times **rapidly**. This procedure initiates the "quick clearing" mode.



Turn ignition "OFF"



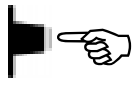
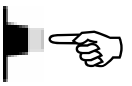

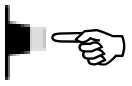

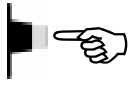

= **SYSTEM MEMORY CLEARED**

TURNING THE ARM / DISARM CHIRPS ON:

STEP 1

	THEN		THEN	
START WITH VALET SWITCH OFF		TURN IGNITION KEY TO ON		TURN IGNITION KEY TO OFF

STEP 2

     	THEN		1 CHIRP = CHIRPS ON
WITHIN 5 SECONDS, VALET SWITCH ON AND THEN OFF 3 TIMES			HORN SOUNDS 1 CHIRP = CHIRPS ON





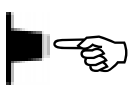
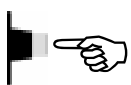

TURNING THE ARM / DISARM CHIRPS OFF:

***NOTE :** Whenever the chirps are turned off, the 4 chirp intrusion indicator and 3 chirp defective zone indicator will always operate. These are important warnings to you that something has happened, and they can not be turned off.*

STEP 1

	THEN		THEN	
START WITH VALET SWITCH OFF		TURN IGNITION KEY TO ON		TURN IGNITION KEY TO OFF

STEP 2

     	THEN		2 CHIRPS = CHIRPS OFF
WITHIN 5 SECONDS, VALET SWITCH ON AND THEN OFF 3 TIMES			HORN SOUNDS 2 CHIRPS = CHIRPS OFF

TROUBLESHOOTING - Transmitters:

SYMPTOM

One or both of my transmitters doesn't work any more (stopped working).

HELPFUL HINT : If a transmitter has been programmed to the system at one time, it will remain programmed. Disconnecting the vehicle's battery or removing the transmitter battery will not erase transmitter codes from the SECURIKEY+ system's memory. The only way transmitter codes are removed from the system memory is by deliberately programming different transmitters, deliberately bumping the codes out of memory, or deliberately erasing the system's memory !

DO NOT reprogram transmitters that you know are already programmed to the system. Instead, first check to see if the transmitter needs to be realigned to the system.

BEGIN TROUBLESHOOTING

Does the Red L.E.D. on the transmitter flash rapidly and flash brightly when any of the transmitter buttons are pressed ?

YES

Were the transmitters in question ever programmed to operate the system ?

YES

*Press and release the LOCK button on the transmitter two times within 1 second.

*Try pressing the LOCK button 10 times within five seconds.

NO

*Program transmitter to the system.

*If a programming attempt failed, you will need to erase existing transmitter codes first. (page 8).

QUESTION

Does the system now operate properly ?

YES

Diagnosis Completed.

NO

Defective transmitter. Replace transmitter.

NO

Replace the transmitter battery, then test the transmitter. Does the system operate now ?

YES

Diagnosis Completed.

NO

Does the transmitter L.E.D. flash now ?

YES

Start again from the beginning.

NO

Defective transmitter. Replace transmitter.

TROUBLESHOOTING - Horn / Chirps:

SYMPTOMS

My system does not chirp when Arming and Disarming.
I cannot turn my chirps on (or off).
The alarm will set, but will not sound when opening a door.

HELPFUL HINTS :

- 1) The arm and disarm chirps are turned on and off by using the L.E.D. / Valet switch in combination with the ignition switch. The SECURIKEY+ system does not use dip switches to turn the chirps on and off.
- 2) When the chirps are turned off, the 3 chirp (armed with a door open - "defective zone") and 4 chirp (disarm after alarm trigger - "intrusion alert") signals will always remain on. There is no way to defeat the 3 and 4 chirp signals.

BEGIN TROUBLESHOOTING

Open the driver's door, then press the LOCK button to arm the system. Did the horn chirp 3 times ?

YES

*Turn the chirps ON according to the procedure on page 9.

QUESTION

Does the system operate properly now ?

YES

Diagnosis Completed.

NO

The procedure to turn chirps on will not work.

QUESTION

Turn the ignition key to ON, then push the L.E.D. / Valet switch to the ON (IN) position. Does the dash L.E.D. turn On ?

YES

*Repeat procedure to turn chirps on, but this time quicker. You have only 5 seconds to complete this.

NO

*Repair connection on YELLOW ignition wire on the alarm harness.

NO

Does the SECURIKEY+ system make the horn sound under any conditions, (IE: full trigger, pre-warn, or remote panic ?

YES

*Repair BROWN door trigger wire from alarm, or the defective door pin switch, then start over.

NO

*Inspect and repair GREEN with RED STRIPE horn wire from alarm harness.

QUESTION

Does the SECURIKEY+ system make the horn sound under any conditions, (IE: full trigger, pre-warn, or remote panic) now ?

YES

Start again from the beginning.

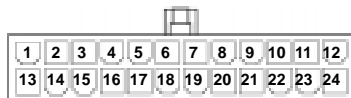
NO

Defective module. Replace module.

TROUBLESHOOTING:

4. Reading the Connection Points at the 24 pin Main Alarm Connector :

A. When checking the 24 pin main alarm connector, be sure that it is disconnected from the alarm control module. All other connections to the main alarm harness should remain connected.



24 PIN MAIN ALARM CONNECTOR
(TERMINAL VIEW)

PIN 1 - DOOR TRIGGER - BROWN WIRE

Pin 1 to Ground - Approximately 12 Volts with all doors closed.
0 Volts with LF or RF door opened.

PIN 2 - HOOD PIN SWITCH - DARK GREEN WIRE

Pin 2 to Ground - No continuity with hood lid closed.
Continuity with hood lid opened.

PIN 3 - L.E.D. (+) - RED WIRE (Refer to NOTE below)

PIN 4 - L.E.D. (-) - LIGHT BLUE WIRE (Refer to NOTE below)

PIN 5 - ALL DOOR UNLOCK #1 - PINK w/ WHITE STRIPE WIRE

Pin 5 to Ground - Approximately 12 Volts.
0 Volt pulse when LF door unlock switch is activated.

PIN 6 - BLANK

PIN 7 - LF DOOR UNLOCK FROM RELAY - DARK BLUE w/ WHITE STRIPE WIRE

Pin 7 to Ground - 0 Volts.
Approximately 12 Volt pulse when LF door unlock switch is activated.

PIN 8 - LF DOOR UNLOCK TO SOLENOID - WHITE WIRE

Pin 8 to Ground - 0 Volts.
Approximately 12 Volt pulse when LF door lock switch is activated.

PIN 9 - DRIVER'S DOOR UNLOCK SOURCE - ORANGE w/ WHITE STRIPE WIRE

Pin 9 to Ground - Always approximately 12 Volts.

PIN 10 - HORN RELAY - GREEN w/ RED STRIPE WIRE

Pin 10 to Ground - Approximately 12 Volts.
0 Volts when horn switch is activated.

PIN 11 - TAILLIGHT RELAY - YELLOW/GREEN STRIPE WIRE

Pin 11 to Ground - Approximately 12 Volts.
0 Volts when Parking Lamp switch is activated.

PIN 12 - CTSY LIGHT SOURCE - BLACK w/ WHITE STRIPE WIRE

Pin 12 to Ground - Always continuity.

PIN 13 - (+) 12 VOLT BATTERY SOURCE - RED WIRE

Pin 13 to Ground - Always approximately 12 Volts.

PIN 14 - CHASSIS GROUND SOURCE - BLACK WIRE

Pin 14 to Ground - Always continuity.

PIN 15 - (+) 12 VOLT IGNITION SOURCE - YELLOW WIRE

Pin 15 to Ground - Approximately 12 Volts when ignition key switched to " RUN " and " START ".
0 Volts when ignition key switched to " LOCK " and " ACCESSORY ".

PIN 16 - TRUNK TRIGGER - BROWN w/ WHITE STRIPE WIRE

Pin 16 to Ground - Approximately 12 Volts with trunk lid and all doors closed.
0 Volts with trunk lid opened.

PIN 17 - ALARM CONTROL SWITCH - GREY WIRE

PIN 18 - ALARM CONTROL SWITCH - BLACK w/ ORANGE STRIPE WIRE

Pin 17 to Pin 18 - No continuity with alarm control switch in OFF (OUT) position.
Continuity with alarm control switch in ON (IN) position.

PIN 19 - BLANK

PIN 20 - DISARM - PINK w/BLACK STRIPE WIRE

Pin 20 to Ground- Approximately 12 Volts.
0 Volts when LF door key switch is rotated to unlock.

PIN 21 - DOOR LOCK WIRE - PINK WIRE

Pin 21 to Ground - Approximately 12 Volts.
0 Volts when LF door lock switch is activated.
0 Volts when LF door key switch is rotated to lock position.

PIN 22 - STARTER DISABLE RELAY - ORANGE WIRE

Pin 22 to Ground - Approximately 12 Volts when ignition key switched to " RUN " and " START ".
0 Volts when ignition key switched to " LOCK " and " ACCESSORY ".

PIN 23 - HEADLIGHT RELAY - BLUE WIRE

Pin 23 to Ground - Approximately 12 Volts.
0 Volts when Headlight switch is activated.

PIN 24 - COURTESY LIGHT - GREEN w/ WHITE STRIPE WIRE

Pin 24 to Ground - Approximately 12 Volts with all doors closed
0 Volts with LF or RF door opened.

NOTE: The alarm control module must be connected to the security main harness in order to test pins 3 and 4.