

735HB

2-WAY HYBRID SECURITY

⊗ Owner's Guide ⊗

Thank you for purchasing this SCIBORG Vehicle Security System. The 735HB is a state of the art device that will provide you with years of trouble free service if used properly. Please familiarize yourself with the content of this Owner's Guide to get the most out of your new system. We trust you will enjoy using the product.

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NOTICE! Although reasonable efforts have been taken to ensure accuracy in this Owner’s Guide, Kiramek Inc. shall not be held liable for any errors, omissions, property damage, or injury resulting from the use of this information.

All product specifications and features are subject to change without notice.

LIMITED LIFETIME WARRANTY

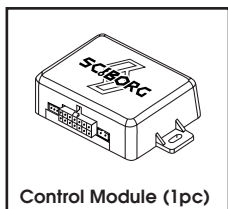
The SCIBORG 735HB system control module is backed by a limited lifetime warranty against defective components and/or improper product assembly to the original purchaser for as long the vehicle is owned by that same purchaser, contingent upon installation by an Authorized SCIBORG Dealer. All product warranties become void if the SCIBORG 735HB system was not sold and installed by an Authorized SCIBORG Dealer or the system is moved to another vehicle. All other parts and/or accessories that connect to SCIBORG 735HB systems, including the shock sensor and status LED, are warranted for one (1) year from the original date of purchase.

During the warranty period, Kiramek Inc. will repair or replace, at its sole discretion, any system component that is found defective in material or assembly during the warranty period, provided that the product is returned to Kiramek Inc. by an Authorized SCIBORG Dealer and is accompanied by a clear and legible copy of the original purchaser's receipt. Any damage to your SCIBORG 735HB system that results from normal wear-and-tear, accidents, improper use, neglect, faulty wiring, incorrect installation, modification, removal or defacement of the product serial number, alteration or repair outside Kiramek Inc or its Authorized SCIBORG Dealers immediately voids this warranty.

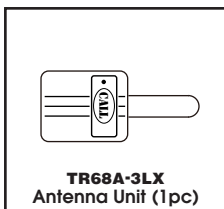
This warranty is limited to defective parts only and does not provide any compensation whatsoever for damages associated with the SCIBORG 735HB system or its accessories. This warranty does not cover installation labor, product removal and/or reinstallation fees. This warranty is valid for the original purchaser only and may not be transferred to another party. Kiramek Inc makes no warranty against theft or vandalism of the vehicle in which the SCIBORG 735HB system was installed. This warranty shall not be interpreted as an insurance policy against loss, nor shall Kiramek Inc be liable any in way for such loss, financial or otherwise.

⚠ WARNING! DO NOT ATTEMPT TO INSTALL THIS SCIBORG PRODUCT YOURSELF BECAUSE SUCH WILL IMMEDIATELY VOID THE WARRANTY. THIS SECURITY SYSTEM MUST BE PROFESSIONALLY INSTALLED BY YOUR AUTHORIZED SCIBORG DEALER TO VALIDATE YOUR WARRANTY.

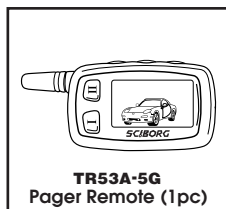
INCLUDED ITEMS



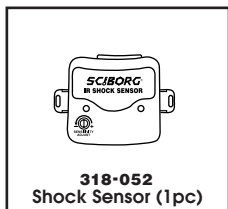
Control Module (1pc)



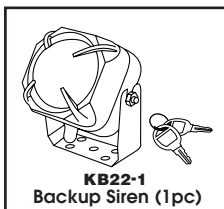
TR68A-3LX
Antenna Unit (1pc)



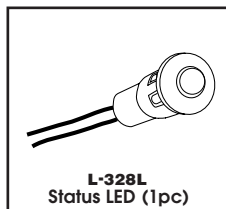
TR53A-5G
Pager Remote (1pc)



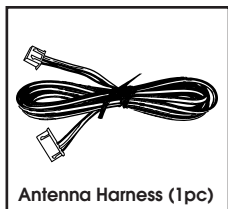
318-052
Shock Sensor (1pc)



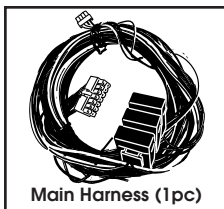
KB22-1
Backup Siren (1pc)



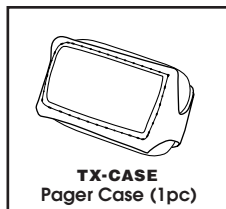
L-328L
Status LED (1pc)



Antenna Harness (1pc)



Main Harness (1pc)



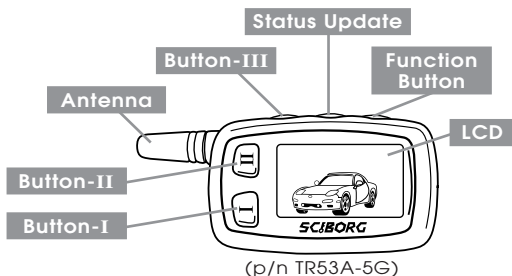
TX-CASE
Pager Case (1pc)

OTHER INCLUDED ITEMS:

- Sheet of Window Decals
- Double-Sided Mounting Tape for Antenna Unit (1pc)
- Double-Sided Mounting Tape for Shock Sensor (1pc)
- AAA Battery for Pager Remote (1pc)
- Wire Ties (2pcs, 14cm length)
- Owner's & Install Guides

2-WAY PAGER REMOTE

OVERVIEW



GENERAL PAGER FUNCTIONS

- (S) stands for a **Short** press, while (L) means a **Long** press.
- ① indicates the icon blinks ON/OFF.
- After pressing any pager button, if the **i** icon disappears, you are either out of range or RF noise is interfering with the pager signal.

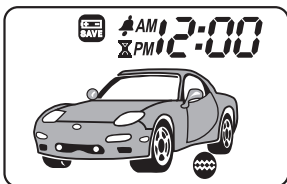
SELECTABLE FUNCTIONS	BUTTON OPERATION	ICON ALERT	PAGER BEEPS	SIREN CHIRPS	LIGHT FLASHES
Lock/Arm	I (S)		1	1	1
Unlock/Disarm	I (S)		2	3	3
Silent Mode Arm	II (S)		MELODY	none	1
Silent Mode Disarm	II (S)		2	none	3
No Confirmation Arm	III (S)		1	none	1
No Confirmation Disarm	III (S)		2	none	3
Sensor Bypass ON	I + II (S)		1	2	1
Sensor Bypass OFF	I or II or III (S)		2	3 or none	3
Door Lock / Unlock	II + III (S)	none	none	none	1 / 3
Panic Siren	I or II or III (L)		SIREN SOUND	Siren Blast	Continuous
Vehicle Status	(S)	various	MELODY	none	none




Also see page 4, "SPECIAL PAGER FUNCTIONS."




SPECIAL PAGER FUNCTIONS

- (S) means a **Short** press, (L) means a **Long** press.
- ① RF receiver sleeps, power cut to 1/3 of normal.
- ② **hour** digit(s) selected for adjustment.
- ③ **minute** digits selected for adjustment.
- ④ **⏏** adjusts upward; **⏏** adjusts downward.
- ⑤ routine exists after **8 seconds** of inactivity.

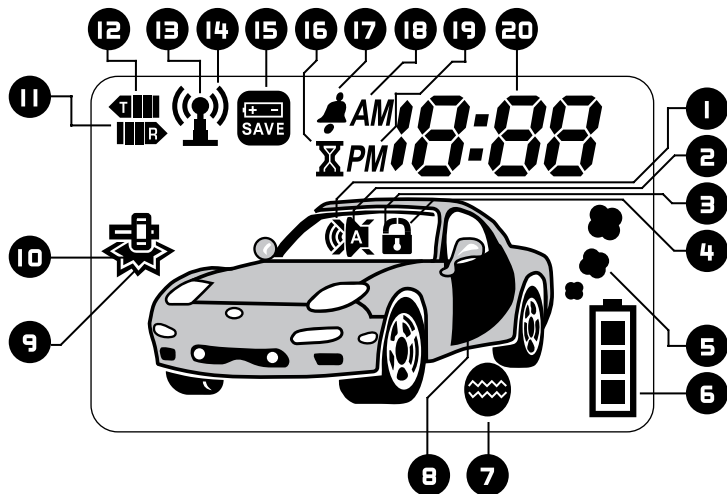
 **TIP:** When pressing **F** along with other buttons, Press & Hold **F** before pressing other buttons.



SELECTABLE FUNCTIONS	BUTTON OPERATION	ICON ALERT	PAGER BEEPS	FUNCTIONAL DETAILS
E.L. Backlight ON	F (S)	none	none	Turns off in 5 sec.
Power Save Mode ^①	I + F (S)		2	Activates in 2 min.*
Audio/Vibe Alert	II + F (S)		none	
Time Adjustment Mode ^{②③}	(1st) F (L)	AM 12:00 ^④	2	Keep adjusting hour to change AM/PM.
	(2nd) F (S)	AM 12:00 ^④	none	
Alarm Clock	(3rd) F (S)	AM 12:00 ^④	none	When alarm goes off, a special melody plays on the pager for 25 sec.
	(4th) F (S)	AM 12:00 ^④	none	
ON or OFF	(5th) F (S)	OFF	none	
Countdown Timer	(6th) F (S)	X 0:00 ^④	none	When count reaches zero, the pager will beep continuously for 10 sec.
	(7th) F (S)	X 0:00 ^④	none	
ON or OFF	(8th) F (S)	X OFF	none	
Alarm Toggle	III + F (S)	 (when ON)	2	
Fixed Timer ^⑤	(1st) ⏏ + F (S)	X 0:10	2	All times in hours:min. Use the Time Adjustment Mode "Countdown Timer" feature to set a custom timer that is not shown here.
	(2nd) ⏏ + F (S)	X 0:20	2	
	(3rd) ⏏ + F (S)	X 0:30	2	
	(4th) ⏏ + F (S)	X 1:00	2	
	(5th) ⏏ + F (S)	X 1:30	2	
	(6th) ⏏ + F (S)	X 2:00	2	
	OFF	(7th) ⏏ + F (S)	X 0:00	

* **Pager Power Save Mode only works while the system is DISARMED.** If you try to activate Power Save Mode while Armed, the  icon will appear but Power Save Mode is in fact not active (the  icon never disappears). The reason for not working while Armed is that your pager would not automatically receive notification of vehicle threats in Power Save Mode because Power Save Mode improves battery life only by shutting down the pager's RF receiver. When the RF receiver is off, your pager won't update. If you push any button, Power Save Mode will deactivate (even though the  icon will continue displaying on the pager) and then reactivate 2 minutes later.

PAGER ICON DESCRIPTIONS



- | | |
|---|--|
| 1. Silent Mode ARMED (no siren) | 12. RF Transmit Active (icon) or Standby (no icon) |
| 2. Siren Active Mode ARMED | 13. In-range Indicator (icon vanishes if out of range or in Pager Power Save Mode) |
| 3. Vehicle Doors Locked | 14. Pager Button Pressed ("Transmitting") |
| 4. Vehicle Doors Unlocked | 15. Pager Power Save Mode Active |
| 5. Engine Running | 16. Countdown Timer Mode |
| 6. Pager Battery Level | 17. Alarm Clock Enabled |
| 7. Pager Vibration Alert Mode | 18. Morning Time Indicator |
| 8. Door Open/Closed | 19. Afternoon Time Indicator |
| 9. Sensor: Heavy Impact or Bypass | 20. Hour & Minute Display |
| 10. Sensor: Light Impact | |
| 11. RF Receive Active (icon) or Standby (no icon) | |

⚠ NOTES: (1) After you Arm or Disarm, there are times when you may receive 2 answer-back notifications. This is normal.

(2) If a sensor sends a Warning response to the 735HB multiple times very quickly (e.g., more than 2 times in 8 seconds), the pager will not produce more than 2 answer-back notifications.

PAGER USAGE & CARE

PRECAUTIONS



Your 2-way pager is a delicate device that can be easily damaged by excessive vibration, heat, direct sunlight, humidity, dirt, oil and water. Small particles in a very dirty pocket can also damage the pager in time. Never immerse your pager in water. If it gets wet, remove the battery and allow to dry. Never drop your pager. Impact can break the LCD and/or cause the answer-back functionality to stop working. *Rough handling is not covered under warranty!*


COMMUNICATION RANGE

Your pager's range is affected by RF noise. Typical in-city range is often greater than 300m (>985ft), while range in the country can be as high as 600m (2,000ft.). Note that if metal objects (e.g., coins in your pocket) touch or surround the antenna, range may decrease. Also, close proximity to TV stations and or powerful mobile phones can also limit range.



RESPONSIVENESS

It can take several seconds before your pager is updated with the current status of the vehicle (e.g., door open, siren blast, etc.). During this time, the pager may become less responsive to your button presses. Also, the pager will not receive updates while you are pressing any button.

CHANGING THE BATTERY

A pager battery will last just over 1 month with normal use. When the  icon appears on the LCD, replace the battery. The battery icon may flash and the pager may beep 6 times when the battery is just about to die. Replace the battery soon with a fresh (+)1.5v AAA Alkaline. (*Rechargeables may not work if the voltage is much less than 1.5v.*) Also note that leaving a battery in the pager too long without using it could cause the battery to leak, resulting in corrosion of the battery contacts and pager malfunction.

Follow this procedure every time you replace the battery:

- (1) Remove the cover and take out the old battery.
- (2) Press the  button for 2 seconds to clean out the pager memory.
- (3) Insert the new battery and replace the cover.
- (4) Press the  button again to initiate communication.

SYSTEM OPERATION

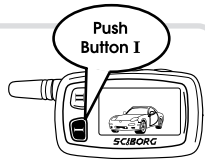
ARMING



NORMAL ARMING



This method is the typical way to arm the 735HB, with the shock sensor enabled. Ensure that all doors are closed and then press Button-I on the Pager remote.



After you press Button-I, the doors will lock and hazard lights will flash once (if so installed). The siren will chirp 1 time, the Pager remote will beep once and update (see **Fig-1** below), and Status LED will light solid for 5 seconds. (The siren can't be triggered while the LED is lit solid — See “Error Chirp” on the next page.)

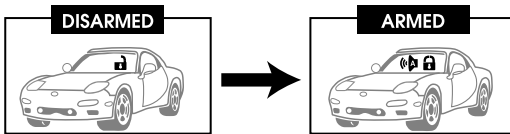


FIG-1: Pager LCD Icon Change After Arming

SILENT MODE ARMING



This method of arming will prevent the siren from making any sound (no confirmation chirps, no warning chirps, no siren blast, etc.). Press Pager Button-II then release. The doors will lock and hazard lights will flash once (if so installed). The Pager will play a melody and update (see **Fig-2** below), and Status LED will light solid for 5 seconds. (The siren can't be triggered while the LED is lit solid — See “Error Chirp.”)

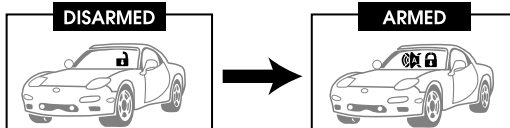
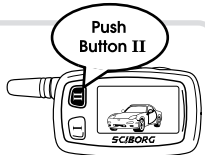
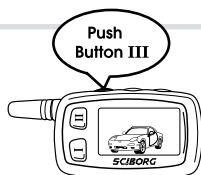


FIG-2: Pager LCD Icon Change After “Silent Mode” Arming

NO CONFIRMATION CHIRP ARMING




This method is identical to “Normal Arming” except there is no siren chirp emitted after you arm or disarm. Ensure that all doors are closed and then press Button-III on the Pager remote. After you press Button-III, the doors will lock and hazard lights will flash once (if so installed). The Pager Remote will beep once and update (see **Fig-1**), and Status LED will light solid for 5 seconds. (The siren can't be triggered while the LED is lit solid — See “Error Chirp” below.)

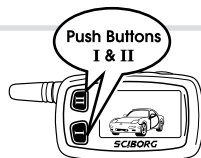


SENSOR BYPASS ARMING



This method of arming allows you to disable all sensors (e.g., shock sensor) while keeping all other alarm triggers active (e.g., door, trunk, hood, IG).


Press Pager Buttons I & II at the same time then release. The doors will lock and hazard lights will flash once (if so installed). The siren will chirp 2 times, the Pager will beep once and update as shown in **Fig-1** but also with the  icon, and the Status LED will light for 5 sec. (The siren can't be triggered while the LED is lit solid — See “Error Chirp” below.)



Error Chirp



When you arm the 735HB, the system ignores shock sensor “Warning” triggers while Status LED is lit solid. If there is *any other trigger* while the LED is lit solid (IG, Door, Shock Full Trigger), the siren will chirp 2 times (“error chirp”) and the hazard lights will flash twice and that trigger sector will be bypassed. (Error Chirps will not sound when Arming with Btn-II or III.) If the bypassed sector is later secured (i.e., the opened door was later closed), the system will silently re-enable that sector 5 seconds later.

⚠ NOTE: Your 2-way pager will update its icons during an error chirp condition to show the bypassed sector. However, the pager will not update if that sector is later re-enabled—press the  button to update status.

AUTO-ARM



PROGRAMMABLE



This method of arming is **disabled** by default — see page 18 for programming details. This feature automatically arms your system when you do the following: (1) Turn Ignition ON, (2) Turn Ignition OFF, (3) Open a Door and then (4) Close the Door. Twenty seconds later, you will hear 1 chirp and 1 pager beep and see 1 light flash. Five seconds later, the Status LED will start flashing, and all zones will be secured (i.e., the system will be Armed). **NOTE: Doors will not be locked.**

NOTE: If you open a door before hearing the *Arm* chirp, the system will wait until you close the door. After the door closes, the siren will chirp, the 20 second delay-to-Arm timer will reset and start again.

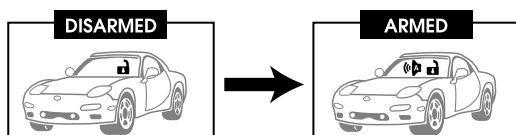


FIG-3: Pager LCD Icon Change After Auto-Arming

AUTO-REARM



PROGRAMMABLE



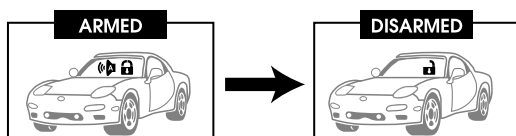
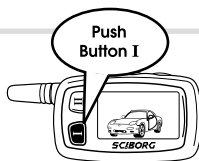
This method of arming is **disabled** by default — see page 18 for details. This feature automatically arms your system 60 seconds after it is disarmed. (If a door is opened during the sixty seconds, the 735HB will not automatically rearmed.) Fig-1 on page 7 shows the pager LCD display for Auto-Rearm.

NOTE: Doors will be locked, unlike Auto Arm.

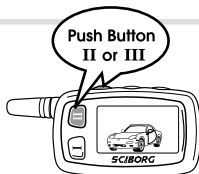
NOTE: During the 20 second delay of Auto Arm or the 60 second delay of Auto Rearm, the siren cannot be triggered because the system is not yet armed.

DISARMINGNOTE: To disarm without a remote, see page 21.**NORMAL DISARMING**

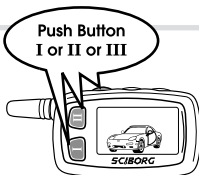
This method is the typical way to disarm the 735HB, with confirmation chirps active. Press Button-I on the Pager remote while the system is armed. The doors will then unlock and hazard lights will flash 3 times (if so installed). The siren will chirp 3 times. The Pager remote will beep 2 times (or vibrate twice, if in Vibe mode), and icons will update (see Fig-4 below). The system is now disarmed, and you may enter the vehicle without triggering the siren.

**FIG-4: Pager LCD Icon Change After Disarming****NO-CHIRP DISARMING**

This method of disarming is identical to the “Normal” method except there are no siren chirps emitted when you disarm. Press Pager Button-II or Button-III then release. (You may have to press Button-II twice.) The doors will then unlock and hazard lights will flash 3 times (if so installed). The Pager Remote will beep 2 times (or vibrate twice, if Vibe Mode is selected), and icons will update (see Fig-4 above). The system is now disarmed, and you may enter the vehicle without triggering the siren.

**HIGH SECURITY DISARMING**

When the system is “triggering” (warning chirps, siren blast, hazard flash), two button presses are required to disarm. This feature allows you to stop the trigger condition with only 1 press while keeping the system armed. You can press Button I or II or III. (Continues on the next page.)



continues...

HIGH SECURITY DISARM continued...

Your first press of Button I, II or III stops the trigger (i.e., kills the siren, or kills hazard light flash if in Silent Mode). Your second press disarms the system. *In other words, “two presses” are required to disarm whenever there is a system trigger, such as the siren going off.*

⚠ NOTE: *For the first few seconds after the pager siren tone (or vibration) begins, you may not be able to disarm with 2 presses. If you wait 3 seconds or so, 2 presses will always work (you can stop the siren with one press, and disarm with the second). But during the first few seconds, it may take multiple presses before you can stop the siren and disarm.*

Panic Mode



Panic Mode allows you to trigger the full 30 second siren blast from your remote, whether the system is armed or disarmed. Press Button-I or Button-II or Button-III for 3 seconds. When you release, the pager icons will update as shown in **Fig-5** below, and the pager will emit a siren tone (or vibrate). Vehicle hazard lights will flash, the Status LED will flash quickly, and the siren will go off for 30 seconds.



To stop Panic Mode and silence the siren, simply press Button I, II or III for a short duration (1 sec. or less) and release. *Note that you must wait approximately 4 seconds after you initiate Panic Mode before you press Button I, II or III, otherwise your button press will be ignored and the siren will keep sounding.*

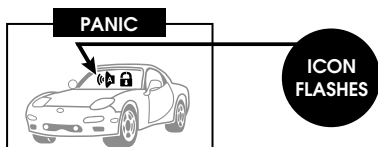


FIG-5: Pager LCD Icon Display During Panic Mode

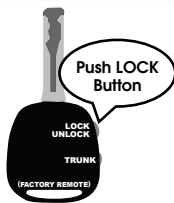
OPTIONAL CAN-HB FEATURE: FACTORY KEYLESS ARM/DISARM

⚠ IMPORTANT! Please ignore this page if you do not have the optional CAN-HB Install Kit. Only the CAN-HB Install Kit can enable Arming & Disarming of your 735HB alarm by your car's factory keyless remote.

⚠ NOTE! If your factory remote has trunk release, always first Disarm your 735HB alarm before using trunk release, otherwise the siren will go off.

FACTORY KEYLESS ARMING

Close all doors and press the **LOCK** button on the vehicle's factory keyless remote. After you press Lock, vehicle hazard lights will flash and the doors will lock. When the hazard lights stop, the siren may (see TIP below) chirp 1 time and the Status LED will light solid for 5 seconds. After 5 seconds, the LED will start flashing and all alarm triggers become active. (Alarm triggers are ignored during the initial 5 seconds.)



FACTORY KEYLESS DISARMING

Press the **UNLOCK** button on the vehicle's factory keyless remote. After you press Unlock, vehicle hazard lights will flash and the doors will unlock. When the hazard lights stop, the siren may (see TIP below) chirp 3 times and the Status LED will turn off. The system is now disarmed and you may enter the vehicle.



💡 TIP: Whether the siren sounds or not will depend on the last used state of your 2-way pager. For example, if you last Armed with Button-II on the pager, and then you later push Unlock and then Lock on your factory keyless remote, the 735HB will Arm in Silent Mode (see page 7). So if you want normal siren operation with the keyless remote, first press Button-I on the 2-way pager and then use your keyless remote. And if you want No Confirmation Chirps, then just press Button-II on the pager and then use your keyless remote.

SYSTEM "ARMED" FEATURES

GWA (Ground When Armed)



The 735HB feeds a (-) 300mA Ground output while the system is armed. *Optional* components can be added to this control line, such as LED scanners or a starter kill immobilizer relay. When the system is disarmed, power to this output is removed and all attached devices shutdown.

STARTER KILL IMMOBILIZER



OPTIONAL PART NEEDED

Your vehicle's starter can be automatically immobilized whenever the 735HB is Armed by the addition of an *optional* 896H-1B relay.



2-STAGE SENSOR TRIGGER



1st Stage ("Warning Chirps"). When the shock sensor detects a light impact, the siren will chirp 5 times, the pager will beep and update icons as shown in **Fig-6** below. Any optional sensors attached to the 1st Stage sensor input can also trigger the 5 warning chirps. *No chirps will be produced in Sensor Bypass Mode or Silent Mode.*



2nd Stage ("Full Siren"). When the included shock sensor detects hard impact to the vehicle body, the siren will go off for 30 seconds (or until stopped by a button press on your pager remote), and the pager will emit a siren tone and update icons as shown in **Fig-6** below. Note that any optional sensors attached to the shock sensor's 2nd Stage input can also trigger the full siren blast sequence. *The siren will not be triggered while in Sensor Bypass Mode or Silent Mode.*



FIG-6: Pager LCD Icon Change Upon Shock Detection

STATUS LED



The LED flashes slowly "once per second" while Armed, acting as a visual theft deterrent. The LED turns off when the system is disarmed.

SYSTEM "ARMED" FEATURES

TRIGGER MEMORY



This feature informs you if the siren went off in your absence and you were too far away for your 2-way pager to be updated about the alert. The Status LED flashes rapidly while the siren is going off. The Status LED will continue to flash rapidly until you disarm and turn on the Ignition (or until you disarm and then arm again).

SBS (Sector Bypass System)



When the *ignition* or a *sensor* is triggered **10 times**, the security system will automatically bypass that specific sector until you disarm and arm the system again. If a *door* is *left open*, it will be bypassed after the siren goes off **5 times**. This feature is useful to limit noise pollution caused by multiple siren triggers in a short period of time. Parking near construction sites or having animals jump on the vehicle can cause such shock sensor triggers to occur, especially if the sensitivity is set to near maximum.

DOOR TRIGGER



The siren will blast for 30 seconds whenever a door is opened while the system is armed. Vehicle hazard lights will flash if so installed, and your pager will emit a siren tone and update icons as shown in **Fig-7** below.

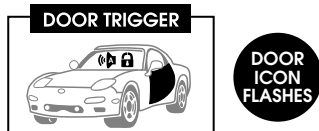


FIG-7: Pager LCD Icon Change Upon Door Trigger

RESUME



RESUME is a form of State Memory that remembers if the system was Armed or Disarmed when the main power is cut. When power is restored, the 735HB will power-up disarmed if it was disarmed in its previous state. If originally armed, it will power-up armed and with the siren going off.

SYSTEM "ARMED" FEATURES

IIP (Intelligent Ignition Protect)



"IIP" is a feature unique to SCIBORG security products that automatically switches from **Remote Start Compatibility Mode** to **IG Protect Mode** when needed.

These two modes are described in detail below. (See page 18, **Table-1**, feature **No.3**, for programming details.)

IG PROTECT MODE (default)

PROGRAMMABLE



When the ignition goes on while the system is armed, the siren will go off for 30 seconds. Vehicle lights will flash if so installed. A siren tone will be emitted on the pager, and icons will update as shown in **Fig-8** below. (This mode is the **IG Protect** setting shown on page 18, **Table-1**, feature **No.3**.)

REMOTE START COMPATIBILITY MODE

PROGRAMMABLE



When the ignition goes on while the system is armed, the siren will *not* go off. Instead, shock sensor and ignition triggers are bypassed while door, hood and trunk triggers remain active. A melody tone will sound on the pager, and icons will update as shown in **Fig-8** below. (This mode is the **RSCM** setting shown on page 18, **Table-1**, feature **No.3**.)

This feature allows 3rd party remote starters or turbo timer systems to run the engine without triggering the 735HB's siren. The 735HB is still protecting the vehicle, so any attempt to open a door, the trunk or the hood will trigger the siren. And when the remote starter or turbo timer turns off the ignition, the shock sensor and ignition triggers are then re-activated. (A separate pager melody will sound when the Ignition is turned off.)

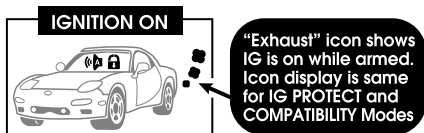


FIG-8: Pager LCD Icon Change Upon Ignition ON

SYSTEM "ARMED" FEATURES

Why IIP is Needed

Most competing "remote start / turbo timer" compatible car alarms bypass all trigger inputs when the ignition goes on while armed. So if a thief opens the door the siren will go off, *but the thief can then close the door, turn on the ignition and wait; when the siren stops, he can drive away in silence because the Ignition-ON state prevents the siren from going off again!* Yet other car alarms trigger the siren when the ignition goes on while armed, but such is incompatible with remote start and turbo timer systems. **IIP solves this "compatibility versus security" problem.**

How IIP Works

If the ignition (IG) is turned on in **Remote Start Compatibility Mode**, the siren will not trigger because IG is bypassed; but sectors other than IG can still trigger the siren. However, if the siren was triggered by a door/trunk *before* IG was turned on, IIP switches back to **IG Protect Mode** and will trigger the siren if IG is later turned on.

LIGHT FLASH



OPTIONAL PART POSSIBLY NEEDED

When installed, lights will flash continuously while the siren is going off (during the full 30 seconds), flash 1 time during arm and flash 3 times during disarm, flash 5 times during "Warning" triggers (e.g., shock sensor 1st-stage trigger), and flash 2 times during Error Chirp.

Analog Install. When not using the CAN-HB install kit, the 735HB makes use of two built-in light flash relays ("+" control, for left/right turn signals) to control the turn signal lamps. However, if your vehicle requires "-" GND control for the turn signals, you will need to purchase an *optional 896H-1C relay*.



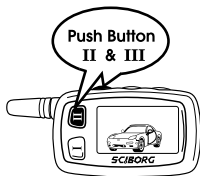
CAN-HB Install. When using the optional CAN-HB Install Kit, the kit talks to the vehicle's hazard lights digitally via CAN-BUS, so there is no need to use relays or make any special light flash connections at all.

SYSTEM "DISARMED" FEATURES

DIRECT DOOR LOCK



Pressing Button-II & Button-III at the same time for a short duration will lock or unlock the doors *without* Arming or Disarming the security system. This feature can be useful if someone is inside the vehicle. In such a case, you can temporarily leave the vehicle and lock the doors but keep the 735HB from accidentally triggering the siren due to someone inside the car.



⚠ CAUTION: *Never use this feature to leave unattended children in a car!*



TIP: *Direct Door Lock only works when the 735HB is Disarmed. If you press Buttons II & III while the system is Armed, the security system will merely Disarm. Also, if you lock the doors with this feature and later try to Arm, the doors will unlock and the system will be Disarmed—in such a case, a second press will be required to Arm.*

BACKUP SIREN



The 735HB comes standard with a siren that has an internal backup battery. When the keyswitch on the back of the siren has been switched to the ON position, the siren will sound when instructed to do so by the 735HB alarm module.



In the ON position, if the main power (either +12v or GND or both) to the siren is cut, the siren will sound from the internal battery. The siren will continue to sound until you restore power and allow the alarm to shut off the siren, or until you switch the siren to OFF with the key, or until the siren's battery dies.

⚠ WARNING: *After using your siren key, don't forget to secure the rubber cap over the keyswitch. Failure to do so could allow water to enter and damage the siren. Such damage is not covered under warranty!*

FEATURE PROGRAMMING



To program features, have your vehicle's key ready to turn the ignition (IG) "on-and-off" several times. (**TIP:** For Push Start ignitions, we recommend the **PBS-30** switch—included with the CAN-HB.)

Perform the following 3-step procedure to alter the features shown in **Table-1** at bottom:

1. **Disarm** the system. (Or "Arm-then-Disarm" if repeating this procedure.)
2. **Turn** IG on-and-off the same number of times as the feature you wish to program (refer to "No." in **Table-1** below), **within 20 sec. of disarming.** (For example, if you want to change "Auto Arm," you must turn the IG on-and-off 8 times within 20 sec.)
3. **Push** Button-I on the pager or transmitter. (Your chosen setting has toggled. Vehicle hazard lights will then flash the same number of times as the feature you just programmed.)

 **When the hazard lights finish flashing in Step-3 above, you may program another feature by restarting this procedure at Step-1.**

⚠ NOTES: (1) After you program a feature, hazard lights will flash the same number of times as the feature you just programmed, but there will be no indication of the "setting" you just toggled to—simply test your 735HB system to confirm your programming. (2) There is no "reset to factory default" feature.

TABLE-1		Feature Selection Menu	
No.	Feature Description	Toggle Settings	
3	IG Protect Mode / RSCM	IG Protect	RSCM
4	Hazard Lights ON During Remote Start	OFF	ON
8	Auto Arm	OFF	ON
10	Auto Rearm	OFF	ON
17	Exterior Illumination	OFF	ON
20	Transmitter Learning / Manual Disarm Code	Factory Disarm Code = 6	
FACTORY DEFAULT SETTINGS SHOWN IN BOLD TEXT ABOVE			

PROGRAM FEATURES EXPLAINED

3 IG Protect Mode / Remote Start Compatibility Mode



When set to **IG Protect Mode**, the system will trigger the siren when the Ignition goes on while armed, as described on page 15 of this manual.

When set to **RSCM (Remote Start Compatibility Mode)**, the system will bypass the Shock Sensor and Ignition triggers and IIP will become active when IG goes on while armed, as described on page 15 of this manual.

4 Hazard Lights ON During Remote Start



When set to **ON**, hazard lights will illuminate solid (not flash) for safety while the Ignition is turned on by a remote start system. *(This feature only works if light flash is connected and only if **Remote Start Compatibility Mode** is also turned ON.)*

8 Auto Arm



This feature automatically arms the system when you do the following: (1) Turn IG on, (2) Turn IG off, (3) Open and Close any door. Upon seeing these events, the system will arm 20 seconds after the last door is closed. The doors will **NOT** be locked (so you won't be locked out if you leave your keys in the car by accident), but the system will be armed. *Your 2-way pager will NOT be updated that the system is now armed.*

10 Auto Rearm



This feature automatically rearms the system 60 seconds after it is disarmed, unless a door is opened or the Ignition goes on during the 60 seconds. Doors will be locked when the system rearms. And unlike Auto Arm, your Pager will update when Auto Rearm arms the system.

⚠ COMPATIBILITY NOTE: *Auto Rearm won't work in cars that activate the dome light when doors Unlock unless the 735HB's WHITE door input is wired to the Door Switches instead of to the Door Dome Light Switch. The reason is the 735HB cannot rearm if it sees "a door open" condition. **IGNORE THIS NOTE if using the optional CAN-HB install kit.***

17 Exterior Illumination



When set to **OFF** (default), vehicle hazard lights will not illuminate after disarming.

When set to **ON**, vehicle hazard lights will flash 3 times upon disarming and then light solid for 30 seconds (or until the Ignition switch is turned on) to illuminate the area surrounding the vehicle for greater security.

⚠ COMPATIBILITY NOTE: *Exterior Illumination won't work in cars that activate the dome light when doors Unlock unless the 735HB's WHITE door input is wired to the Door Switches instead of to the Door Dome Light Switch. (See pages 7 & 8 in the Analog Install Guide for details.)*
IGNORE THIS NOTE if using the optional CAN-HB install kit.

20 Transmitter Learning / Manual Disarm Code

When you turn the Ignition on-and-off 20 times, you can then select one of two features: (1) Transmitter Learning or (2) Manual Disarm Code. The Transmitter Learning feature allows you to add new transmitters to your system, as described on page 23. The Manual Disarm Code feature allows you to program a unique code that will allow you to disarm the system even without your pager remote. *The factory default Manual Disarm Code is "6," but you should change this as soon as possible to your own unique code for greater security.*

To choose Manual Disarm Code, you must turn the Ignition on again (for the 21st time), and then leave the Ignition on—*follow steps given on page 21.*

To choose Transmitter Learning, you must leave the Ignition turned off (no need to turn it on for the 21st time)—*follow steps given on page 23.*

MANUAL DISARMING

Purpose



Also known as “Emergency Reset” or “Force Reset,” Manual Disarming allows you to disarm your 735HB system without the wireless remote. So long as you have your vehicle’s ignition key, you can manually disarm the 735HB with a special Disarm Code. This is useful if the battery in your pager dies or the pager itself is lost or if RF interference prevents your pager from disarming the system.



TIP: *If you have a **Push Start** ignition, we highly recommend the **PBS-30** program switch. Without this switch, it may be impossible to program the 735HB in some cars. The **CAN-HB** install kit includes the **PBS-30** switch, otherwise the **PBS-30** is an optional purchase.*

New Code Programming

The default Disarm Code is factory set to “6.” It is strongly recommended that you change this code to something unique soon after your 735HB system is installed.

To program a new code:


1. Disarm the system. (Or “Arm-then-Disarm” if repeating this procedure.)
2. Turn IG on-and-off **20 times** within 20 sec. of disarming. Hazard lights will then flash 20 times.
3. Wait until hazard lights flash 20 times, then turn IG on and leave it on.
4. The Status LED will light solid for 20 seconds and then it will start to flash very slowly (up to 30 times). Decide beforehand what code you want to program (1~30). When the number of flashes matches the code you wish to program, quickly turn off IG. The Status LED will now flash the same number of times as the Disarm Code you just programmed, and the siren will chirp 3 times and vehicle hazards will flash 3 times.

⚠ NOTE: *Make time now to record your new Disarm Code and store it in a safe place.*

Disarm Procedure

1. With the system Armed, open the driver's door. *The siren will go off.*
2. Leave the door open. Turn the Ignition ON and OFF the same number of times as the Disarm Code. *(If no unique Disarm Code has ever been programmed, then turn the Ignition ON and OFF **6** times.)*
3. Close the door. The siren will stop and the system will be Disarmed. *(If you do not close the door, in 30 seconds the siren will stop and the system will then be disarmed.)*



 **TIP:** The optional **PBS-30** program switch works in place of the car's ignition switch. Pushing the PBS-30 is the same as Ignition=ON. Releasing the PBS-30 is the same as Ignition=OFF. (The PBS-30 is included with the CAN-HB install kit, otherwise it is an optional purchase.)

Helpful Notes

- The siren will not go off when you open the door *if the system was armed in Silent Mode (using Button-II)*. If you Armed with Button-I or Button-III, the siren sound will be audible when you open the door. To avoid disturbing others by the sound, you can use your siren key to switch off the siren. If you do so, do not forget to re-enable the siren with your siren key after the disarm sequence is complete, and be sure to restore the rubber cap over the keyswitch.
- If you enter an incorrect Disarm Code, or if you fail to enter your code within 30 seconds, the siren will shut off for 8 seconds and then sound for another 30 seconds (because the door is open). You must try to enter your Disarm Code again during the next 30 seconds. If you fail again, you must wait until the siren stops, then try again.

TRANSMITTER LEARNING: NORMAL

Purpose

You can program additional remotes to your 735HB system, or program a remote to replace one that you have lost. You can program a total of 3 remotes.

⚠ NOTE: *Initiating Transmitter Learning deletes all transmitters from memory for security. You must therefore relearn all your existing remotes each time you want to learn new remotes.*

Programming

The following procedure will allow you to program transmitters:

1. Disarm and then turn IG on-and-off **20 times** *within 20 sec. of disarming*. Hazard lights will then flash 20 times.
2. Wait until hazard lights flash 20 times, then you have 10 seconds to press and release Button-I on the first remote you wish to program. The siren will then chirp once and the hazard lights will flash once to confirm your remote was learned. You will then have 10 seconds to press and release Button-I on the *next* remote you wish to program. (You can program up to 3 total.)
3. Turn the Ignition on-and-off. The Status LED will flash the same number of times as the Manual Disarm Code. The siren will then chirp 3 times and the hazards will flash 3 times. Transmitter learning is now complete!

⚠ IMPORTANT! *When programming more than one pager, only the first pager programmed will receive answer-back communication from the vehicle. Hence, there is little meaning to have more than one pager because the second pager will only act as a 1-way transmitter. The primary reason to purchase additional pagers is to have a backup in the event the primary pager is lost or damaged.*

TRANSMITTER LEARNING: ALTERNATE

⚠ NOTE: Use this transmitter learning method when none of your transmitters work and when your 735HB alarm is already Disarmed.

Programming

1. Ensure the 735HB is Disarmed, and all doors/trunk/hatches are closed.
2. Turn the Ignition ON then OFF, ON then OFF, and then ON (and leave it ON).
3. Open the driver's door.
>> The alarm system LED will glow 5 seconds and then turn off.
4. Quickly* close & re-open the door.
>> The alarm system LED will glow 3 seconds and then turn off.
5. Quickly* close the door. (You only have 2 seconds to do this.)
>> The alarm system LED should never turn on.
6. Quickly* turn off the Ignition. (You only have 3 seconds to do this.)
>> The alarm system LED should never turn on.
7. Hazard lights will flash 20 times*.
8. After the hazards finish flashing 20 times, you have 10 seconds to press Button-I on the remote you wish to learn.
>> The siren will chirp after you press Button-I to confirm that transmitter has been learned. Now press Button-I on another transmitter you wish to learn, or if none, then proceed to Step-9 below.
9. Turn the Ignition ON then OFF.
>> The alarm system LED will flash the same number of times as your Manual Disarm Code, and then the system may flash the vehicle hazards and/or chirp the siren 3 times.

* **NOTE:** If the LED goes on and stays on or if the Hazards don't flash 20 times, then you likely did not perform a step fast enough. In such a case, turn the Ignition ON and OFF and start over from Step-1.

TROUBLESHOOTING

THE SENSOR 1ST-STAGE TRIGGER ISN'T WORKING.

- Check the green LED on the shock sensor (or the 1st-Stage indicator light on other sensors you have attached). If you never see the 1st-Stage indicator light up, adjust the sensitivity and/or check the connector to the sensor to ensure it is seated properly. Also check power connections to the sensor.
- If you can see the indicator light on the sensor for the 1st-Stage trigger, then it is likely an error in usage. Remember that sensors are ignored for 5 seconds after arming, and you can retest the sensor only once every 10 seconds.
- You can also easily confirm if the sensor is bad. Just disconnect the sensor and then shorting the sensor harness's BLK wire to the WHT/RED wire and then to the PUR/WHT wire and see if the siren triggers. If it triggers in both cases when you short it, then clearly the shock sensor is defective. Otherwise the problem lies elsewhere.

MY TRANSMITTERS ORIGINALLY WORKED FINE BUT NOW THEY DON'T.

If you sent your vehicle in for maintenance and/or the battery was disconnected, or if substantial noise was present on the 12-volt line in the vehicle, it is possible that transmitter memory could be lost. *For this reason we strongly recommend that the main wire harness of the 735HB be disconnected BEFORE you disconnect the vehicle's battery.*

- If the system is Armed, please use your Manual Disarm Code to disarm the system, then relearn your transmitters as described on page 22. (The Ignition and Door inputs must be connected for you to do this.)
- If the system is Disarmed and none of your remotes work, you must use the Transmitter Learning Alternate method to relearn your transmitters, as described on page 23.

TRANSMITTER(S) LOST, NOW WORRIED ABOUT SECURITY.

Simply relearn the transmitter(s) you have or learn your replacement transmitter. Learning transmitters always erases previously learned transmitters from memory. See pages 22-23 for relearning transmitters.

TRANSMITTER BATTERY DIED.

A replacement battery for the pager remote (1 AAA) can be purchased at any convenience store. Use Manual Disarming if required (pg. 21).

AFTER KILLING THE ENGINE, A FAN RUNS WHICH TRIGGERS SIREN.

The 735HB is not compatible with such vehicles.

CAN'T MAKE SIREN GO OFF AFTER ARMING.

- You may have Armed using the Sensor Bypass method. See page 8.
- You may have Armed using Silent Mode. See page 7.
- If you Armed using the Normal method, did you hear a single chip when you Armed the system? If not, the Ignition may be on. You *cannot Arm* the system when the Ignition is ON while “IG Protect Mode” is active. See page 15 for details on IG Protect Mode.

WARNING CHIRPS GO OFF FOREVER, CAN'T DISARM WITH REMOTE.

If you are using the optional **318-04** Ultrasonic Sensor along with the standard **318-052** Shock Sensor, it is likely that the two sensors (the main controller units) were installed too close together. They must be separated by more than 30cm (1 ft.) or interference will cause a continual false triggering of the siren.

FULL SIREN GOES OFF WITH ONLY LIGHT IMPACT TO THE VEHICLE.

If you do not have the **318-04** Ultrasonic Sensor installed, try adjusting sensitivity of your shock sensor. If that doesn't work, you will need to snap open the housing of the shock sensor and verify if the suspended reflector has been jolted out of position (*see Analog Install Guide pg.15*).

I ONLY DRIVE MY CAR ONCE A MONTH, WILL MY BATTERY DIE?

It depends how long you drive, as such will determine if your vehicle's alternator can fully charge the battery. But assuming your battery is not fully charged during your drives, then it is possible the 735HB (or any other aftermarket security device) will drain your vehicle's battery. In this case we strongly recommend you purchase a 3rd party solar charger device (noting that our company does not sell or support these devices). These solar chargers are available in some auto parts stores and merely plug in the cigarette lighter, trickle-charging your car's battery.

CANNOT USE REMOTES WHEN THE SIREN GOES OFF.

You may not be able to effectively control your vehicle with the remote for the first few seconds after the full siren goes off. Simply wait for 5 seconds or so before pushing transmitter buttons. *See “Responsiveness” on page 6 for more information.*

PAGER ICONS ARE STRANGE, PAGER IS ACTING CRAZY.

The pager battery could have leaked. Check battery contacts to ensure they are clean and not bent. Also try pressing-and-holding the trunk button while you insert a fresh battery.

MY CAR HAS SMART KEY. I SOMETIMES CAN'T START THE ENGINE NOW.

Both your vehicle's Smart Key/Intelligent Key and the 735HB pager are wireless devices. As such it is possible that the digital code transmission could interfere with each other if you keep the remotes too close together. In such a case, the solution is simply. Just put more distance between your Smart Key fob and the alarm pager. Of course, this would likely require that you take the SCIBORG pager off your keychain.

I HAVE THE CAN-HB INSTALL KIT. IF I LOCK WITH THE FACTORY KEYLESS REMOTE, I CAN'T UNLOCK WITH THE ALARM PAGER.

Some vehicles are like that and nothing can be done to resolve that because it is connected to how the vehicle's CAN BUS is setup.

I TRIGGERED THE ALARM SIREN FOR A VERY LONG TIME BUT THE PAGER ONLY UPDATED ME TWICE.

This is normal. In most cases the pager will not report more than 2 notifications per session. What that means is if there is a long enough delay between triggers (e.g., between the shock sensor sending signals to the alarm control unit), then the pager will update once again.

PUSH START IGNITION & TROUBLESOME PROGRAMMING.

In this manual, you will read about the need to turn the Ignition ON and then OFF more than once in some situations. This is troublesome on Push Start ignitions because you have to press the Push Start button 3 times to get a single Ignition ON/OFF condition. So to turn the Ignition ON/OFF 3 times, you would have to push 9 times total! But more than just troublesome, on some vehicles the Push Start switch is programmed such that you must Push it rather slowly or else it won't register your push. In such cars, it may be impossible to program the 735HB alarm or use your Manual Disarm Code.

For this reason we highly recommend the optional **PBS-30** Program Switch. The PBS-30 eliminates the need for you to use the car's Push Start switch for alarm programming anymore. To generate an Ignition ON condition for the alarm, you just push the PBS-30 switch. To simulate Ignition OFF, you just release the PBS-30 switch.

If you purchase the optional CAN-HB Install Kit, the PBS-30 Program Switch is included at no additional charge.



RECOMMENDED OPTIONS

CAN-HB: CAN-BUS Install Kit

The optional CAN-HB kit not only makes installation much faster and easier, it also enables a useful feature: **Factory Keyless Arming & Disarming**. With the CAN-HB kit installed, you can Arm and Disarm your 735HB alarm merely by pushing Lock and Unlock on the factory wireless remote. Without the CAN-HB kit, you can only use the included two-way pager to Arm/Disarm the alarm.

⚠ NOTE: *The CAN-HB kit only enables Arming or Disarming of the 735HB alarm with your factory keyless remote. There is no trunk release “sensor bypass” function. This means that if your factory remote has a Trunk Release function, you will first need to Disarm your 735HB alarm and then use Trunk Release on your keyless remote. Otherwise, the 735HB will likely trigger the siren.*

TX-12X: Spare 1-way Transmitter

The standard 735HB system comes with only one two-way pager remote. It is useful to have a spare remote in case the battery in your pager dies or for use by another member of your household.

SENSORS

Please visit our website at kiramek.com to view our range of optional sensors, including tilt, ultrasonic, radar, loop and others.

When adding a second or third sensor, also be sure to purchase the **318-035** splitter unit to make installation easier and faster. The 318-035 also features onboard diodes and capacitors to stabilize the power on each sensor line, ensuring trouble-free operation.

SCIBORG products are engineered in Japan and manufactured in strict accordance with Japanese QC standards at an ISO9000/ QS9000 certified factory.

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