

Feature Menu

Feature Programming

Bitwriter

This system can be programmed while it is in Dealer mode and Consumer mode using the 998T Bitwriter programmer with P/N 998U - v2.8 chip.

Keypad & Consumer Remote

- Configure a Keypad ID or consumer remote control to command the system.
- Open a door, turn the ignition on and then off. 2
- Press/release the Valet button to select an item (See Feature menu table) and then press/hold. 3
- The horn/siren sounds and the LED flashes to confirm the selection. Δ
- The button can be released (Exit in 30 seconds if no action is performed).
- Select the option by pressing the Arm/Disarm buttons of a Keypad or Consumer Remote. 5. • Pulsing +12V on the Arm input wire selects options when RF has not been programmed.
- The horn/siren sounds and the LED flashes to indicate the selected option. 6
- To save the option and select the next menu item to program return to Step 3 above.
- 8. To exit turn the ignition on, the horn/siren emits 2 sounds to confirm.

OEM Security Upgrade

 When installed as an OEM Security Upgrade pressing the Lock/Unlock buttons of the OEM Remote selects options as in Step 5 above.

Menu Item	Feature	Option 1	Option 2	Option 3	Option 4	Option 5
1	Security Features	On*	(Off)			
2	Arming Type	Active*	Passive-no lock	(Passive-lock)		
3	Arm/Disarm chirps	On	(Off)*			
4	Ignition control locks	No ignition locks*	Lock and unlock	Lock only	Unlock only	
5	Panic	On*	(Off)			
6	Hood Trigger type	Normally Open	Normally Closed			
7	Horn function	Siren	(Horn 10 ms)	Horn 20 ms	Horn 40 ms	Horn 50 ms
8	Door trigger error chirp	(On)	Off			
9	Door lock output	(0.8sec)	3.5 sec	0.4 sec.	double unlock (0.4 sec)	
10	Arm defeat polarity	(Positive)	Negative			
11	Disarm defeat polarity	(Positive)	Negative			
12	Sensor Add Arming Type	Active	(Passive)			
13	Flex Output 1	Domelight Supervision	(Factory Alarm Disarm)	2nd unlock	Factory Alarm Trigger	Remote Start Report
14	Flex Output 2	(Domelight Supervision)	Factory Alarm Disarm	2nd unlock	Factory Alarm Trigger	Remote Start Report
15	OEM Alarm Arming	Instant	Delay			

Table Notes:

- 1. Items 1-5
 - (*) indicates default Consumer mode options when changed to a Consumer mode of operation. Any changes must be made after the system is set to Consumer mode.
- BOLD type indicates Dealer Security mode default settings.
- 2. Items 6-14
 - These options are specific to the vehicle interface and remain as programmed when the system is changed to Dealer mode or Consumer mode.
- 3. Quick access: To turn on the honk/chirp feature without entering programming; simply turn on the ignition and press and hold the Valet button, the unit will respond with a single honk/chirp when turning the feature ON.
- To turn off the honk/chirp feature follow the above steps, the unit will respond with a double honk/chirp when turning the feature off.
- 4. See Installation shop manual for a complete description of features and options.

See full Installation Guide for more detailed information on this system. Such information and more can be found online at: www.directechs.com



Programming Keypads and Consumer Remote Controls

Keypad RF Learning

- Open a door and turn the ignition on
- Press/release once and then press/hold the Valet button 2.
- The horn/siren sounds and the LED flashes once 3
- The button can be released (Exit in 30 seconds if no action is performed) Δ Wake up a verified EMK and Input, or confirm and enter, the Dealer ID (DID)
- Select and enter 'LEARN KYPD' from the Function list 5.
- Input, or confirm and enter, the Vehicle Inventory Number (VIN) 6.
- Select the System Type as installed and enter to complete learning 7.
- 8. The horn/siren emits 1 long sound and the Keypad displays 'Successful' to confirm learning.
- 9. To exit turn the ignition off, the horn/siren emits 2 sounds to confirm.

Notes:

- Learning a Keypad's ID sets the system to Dealer mode and deletes previously learned ID's.
- The entered System Type information is displayed on the Keypad each time the system is operated.

Consumer Remote RF Learning

- Open a door and turn the ignition on
- Press/release once and then press/hold the Valet button (one horn/siren 2. sound confirms selection) or press/release twice and then press/hold to delete remotes (two horn/siren sounds confirms selection)...
- The button can be released (Learning exits in 30 seconds) 3.
- Press/hold the remote control **\$** button until the transmit LED turns on solid (10 Δ seconds) or if deleting all remote controls press the **A** button of a programmed remote
- 5. The horn/siren emits one sound to confirm.
- 6. Repeat for each Consumer remote to be learned (up to four). For additional Dealer Master Remote controls, enter the same code of the original Dealer Master Remote that has already been programmed to the system.
- 7. Turn the ignition off or wait 30 second to exit learning, the horn/siren emits 2 sounds to confirm.

Menu Table:

ltem	Function
1 sound/flash	Auto learn new remote
2 sounds/flashes	Delete keypad/remotes

System Testing and Sensor Adjusting

Install the system type according to the wiring diagram on page 1 and then perform the following steps to test for correct operation.

RF Security

Arming

- 1. Press the A button
- Doors lock, Lights flash and the horn/siren sounds once 2.
- For silent arming; press the AUX button prior to pressing the A button. 3. Dome light turns off, starter kill becomes active, and the status LED begins flashing.
- 4. While arming, the system tests the trigger inputs for status. If any trigger inputs are active when arming the horn/siren sounds a second time as a notification, both the onboard impact sensor and the active input are bypassed. The open zone is bypassed until corrected and the impact sensor is bypassed for a maximum of 4 minutes. While bypassed, the active input is indicated by the status LED flashes (see table of zones for LED flashes).
 - Sensor testing:
 - a. Gently impact the vehicle with increasing intensity to test the pre-trigger level (10 horn/siren sounds.
 - b. Impact that location more heavily to test the full-trigger level (horn/siren/ lights for 30 sec).
 - c. Adjust the sensor pot until the desired levels are obtained

Note: The Nuisance Prevention feature bypasses the sensor after 3 full-triggers; to reset if active, disarm the system and turn the ignition on/off.

5. Protected entry tests:

• Open each door, the horn/siren sounds quickly and then begin the full-© 2011 Directed Electronics. All rights Reserved.

trigger output

- Open the hood or trunk, or turn on the ignition to immediately begin the full-trigger output.
- Note: The Nuisance Prevention feature bypasses an input that stays active for 3 full-triggers; close the input to reset.

Sensor Bypass

Press and release the AUX button within 5 seconds after 🔒 button, the lights flash two times and the pre-trigger output is bypassed

- 6. Press and release the AUX button again within 5 seconds, the lights flash 3 times and the pre-trigger and full-trigger outputs are bypassed
- 7. Press the **A** button anytime to reset the sensor

Disarming

- Press the *S* button 2. Doors unlock, Lights flash and the horn/siren sounds 2 times. If the system has been triggered, the horn/siren sounds 4 times or 5 times if the sensor is bypassed
 - For silent disarming; press the AUX button prior to pressing the disarm button
- 3. Dome light turns on, starter kill becomes inactive, and the status LED turns off. • If triggered, the status LED continues to flash to indicate triggered inputs
 - (see table of zones). Turn on the ignition to reset the LED.
- 4. Press the **S** button again to unlock the passenger doors if 2nd unlock is connected

Trunk Release

- Press and hold the AUX button
- Factory alarm is disarmed if connected
- Trunk opens

Note: If the system is armed, the trunk input and sensor is bypassed until the trunk is closed. The Blue trunk trigger input must be connected to the vehicle to bypass when armed.

Panic

- Press and hold the 😻 button
- 2. The lights flash and the horn/siren sounds for 30 seconds.
- 3. Press the (1), **A**, or **\$** buttons to reset

Car Finder

- Press and release the AUX button prior to pressing the (*) button
- The horn/siren emits one long honk and the lights flash 10 times 2.
- Press the 🔒 or 🖇 buttons to stop the feature. 3.

OEM Security

Armina

- Press the Lock button on the OEM remote 1
- Doors lock, lights flash and the horn/siren sounds once, starter kill becomes 2. active, and the status LED begins flashing.
- 3. While arming, the system tests the trigger inputs for status. If any trigger inputs are active when arming the horn/siren sounds a second time as a notification, both the onboard impact sensor and the active input are bypassed. The open zone is bypassed until corrected and the impact sensor is bypassed for a maximum of 4 minutes. While bypassed, the active input is indicated by the status LED flashes (see table of zones for LED flashes).
- The shock sensor is enabled after a one minute delay. Note: for installations where an Arm Defeat connection is not available the system is disarmed if the ignition is turned on during this one minute delay.
- Sensor tests, adjustments, and protected entry tests are the same as for an RF Security System.

Arming defeat

- Press the driver door lock switch
- 2 The system does not arm if the Arm Defeat input wire is connected to the lock switch

Disarmina

- Press the Unlock button on the OEM remote
- Doors unlock, Lights flash and horn/siren sounds 2 times. If the system has been triggered, the horn/siren sounds 4 times or 5 times if the sensor is by-

3. Dome light turns on, starter kill becomes inactive, and the status LED turns off. • If triggered, the status LED continues to flash to indicate triggered inputs (see table of zones). Turn on the ignition to reset the LED.

Disarming defeat

- 1. Press the driver door unlock switch
- 2. The system does not disarm if the Disarm Defeat input wire is connected to either a passenger door unlock motor wire or the driver door unlock switch.

Trunk release bypass when Armed

- 1. Press the Trunk release button on the OEM remote
- 2. Trunk opens
- 3. If the system is armed, the trunk shunt input causes the trunk input and sensor to be bypassed until the trunk is closed.

Note: trunk release bypass requires the Gray/black trunk shunt input and Blue trunk trigger input to be connected to the vehicle to bypass when armed.

Table of Zones

A zone is represented by the number of LED flashes used by the system to identify a particular type of input.

When using the Diagnostic function, use the Table of Zones to see which input has triggered the system.

LED Flashes Input Trigger

- Trunk Input
- Shock Sensor
- Door Trigger
- Not Used
- Ignition Trigger
- Hood Input

Note: The Pre-trigger does not report on the LED

Turn off the ignition and exit the vehicle

Press the Lock button on the OEM remote

Press the Unlock button on the OEM remote

Press the driver door unlock switch

If triggered the status LED continues to flash two times.

4. Turn on the ignition to disarm the sensor and reset the LED.

2. Pre-trigger output is reset the next time the sensor arms

The shock sensor is enabled after a one minute delay.

The status LED begins flashing slowly

1. Press the driver door lock switch

The status LED turns off

Entry bypass of Pre-trigger output

When the door is closed the status LED begins flashing quickly

After one minute the sensor is enabled and the LED flashes slowly (go to 7

Sensor tests and adjustments tests are the same as for an RF Security System.

2. The system does not arm if the Arm Defeat input wire is connected to the lock

The sensor does not disarm if the Disarm Defeat input wire is connected to

The sensor pre-trigger output is bypassed if the door, hood or trunk are opened

The following instructions assume the use of a Keypad in the 'CMND VEHICLE' state

either a passenger door unlock motor wire or the driver door unlock switch.

Add-on Sensor

helow

Armina defeat

switch

Disarming defeat

Additional Notes:

Dealer Security

of its Function list

Disarming

2

2.

Armina

2.

3.

OR

4.

5.

6.

Armina

Passive

- 1. Turn the ignition off and close the doors, hood, and trunk
- 2. The LED flashes quickly for 30 seconds
- An open door, trunk, or hood stops/resets the 30 second timer. If still open after 15 minutes the starter kill becomes active
- 3. The system arms as described when using a Keypad

Keypad

- 1. Press the ≜[↑] button
- 2. Doors lock, Lights flash, starter kill becomes active, and the status LED begins flashing.
 - The Status LED flashes in pattern 1-6 to indicate the Main unit system type as programmed during Keypad Learning
- 3. IF Security features are programmed on, the description under RF Security-Arming is applicable.

Disarming

- Press the S[♥] button
- 2. Doors unlock, Lights flash twice, dome light turns on, starter kill becomes inactive, and the status LED turns off.
- 3. Passive arming begins as described under Passive above.

Car Finder

- Press the 🖧 button 1.
- 2 The horn/siren emits one long honk and the lights flash 10 times
- Press the Arm or Disarm buttons to reset 3.

Ignition bypass of Onboard Sensor Pre-trigger output

Turn the ignition on/off/on/off quickly

- The horn/siren sounds once 2.
- The onboard impact sensor pre-trigger output is bypassed 3
- 4. Turn the ignition on for more than 3 seconds to reset

Note: This will not bypass the pre-trigger of optional dual stage sensors.

Dealer Mode Reporting:

If the system has been programmed in dealer mode with the keypad you can use one the following procedures to request the current dealer mode setting from the system

- 1. When the system is in the armed state the LED flashes to indicate the dealer mode setting
- 2. Turn on the ignition for 1 second, off for 1 second, on for 1 second, off for 1 second (horn/siren sounds once) then turn on the ignition once more and leave the ignition on.

The LED begins flashing, indicating the dealer mode setting:

No Selection:	Single	flash (1	second on/2	2 seconds off)

- RF Security: Single Flash (300 ms on/700 ms off)
- Rke Security: Double Flash

Sensor Add: Triple Flash

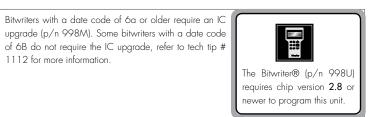
NOTE: The report is generated for 15 seconds or until the ignition is turned off.

Government Regulations

1112 for more information.

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

This equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to



provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada statements:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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