

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.

Dealer Master & Consumer Remote

- Configure a dealer master or consumer remote control to command the system.
- 2. Open a door, turn the ignition on and then off.
- 3. Press/release the Valet button to select an item (See Feature menu table) and then press/hold.
- 4. The horn/siren sounds and the LED flashes to confirm the selection.
- The button can be released (Exit in 30 seconds if no action is performed).
- 5. Select the option by pressing the Arm/Disarm buttons of a dealer master or Consumer Remote.
- Pulsing +12V on the Arm input wire selects options when RF has not been programmed.
- o. The horn/siren sounds and the LED flashes to indicate the selected option.
- 7. 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.

Feature Menu

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.
- . 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. .
- $4. \quad \text{See Installation shop manual for a complete description of features and options.} \\$

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



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Programming and Deleting Remote Controls

- 1. Open a door and turn the ignition on .
- Press/release once and then press/hold the Valet button (one horn/siren sound confirms selection) or press/release twice and then press/hold to delete remotes (two horn/siren sounds confirms selection)..
- 3. The button can be released (Learning exits in 30 seconds).

Note: If deleting the Dealer Master Remote controls press and hold the \$\structure{\stru

- 5. The horn/siren emits one sound to confirm.
- 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:

Item Function

1 sound/flash Auto learn new remote 2 sounds/flashes Delete all remote controls

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.
- 2. Doors lock, Lights flash and the horn/siren sounds once.
- For silent arming; press the AUX button prior to pressing the button.
 Dome light turns off, starter kill becomes active, and the status LED begins flashina.
- 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 testina:
 - 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 fulltrigger 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 \$\mathbb{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
- 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.
- Press the \$\secsimes\$ button again to unlock the passenger doors if 2nd unlock is connected.

Trunk Release

- 1. Press and hold the AUX button.
- 2. 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

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

Car Finder

- 1. Press and release the AUX button , then press and release the 🖚 button.
- 2. The horn/siren emits one honk and the lights flash 10 times.
- 3. Press the **A** or **S** buttons to stop the feature.

OEM Security

Arming

- 1. Press the Lock button on the OEM remote
- 2. Doors lock, lights flash and the horn/siren sounds once, starter kill becomes 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).
- 4. 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

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

Disarming

- 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 bypassed.
- 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.
- 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.
- 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.

ED 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

Dealer Security

The following instructions assume the use of a dealer master remote control.

Arming

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 Dealer Master Remote.

Dealer Master Remote Operation

- Press the button.
- 2. Doors lock, Lights flash, starter kill becomes active, and the status LED begins flashing.
- IF Security features are programmed on, the description under RF Security Arming is applicable.

Disarming

- Press the 🄰 button.
- 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 and release the AUX button, then press and release the 🔹 button.
- 2. The horn/siren emits one honk and the lights flash 10 times.
- 3. Press the lacktriangle or lacktriangle buttons to stop the feature.

Government Regulations

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.

Bitwriters with a date code of 6a or older require an IC upgrade (p/n 998M). Some bitwriters with a date code of 6B do not require the IC upgrade, refer to tech tip # 1112 for more information.



The Bitwriter® (p/n 998U) requires chip version **2.8** or newer to program this unit.

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