

## Keyless Entry And Alarm System

CT-1010

# Installation Guide

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### Included in the Kit

Please review the installation guide before beginning the installation, especially the wiring diagram and the programming options. It is very important that you familiarize yourself with the programming and operation of the system, even if you have already installed an alarm system in the past. There are many great new features that may be overlooked if the manual is not read: you would therefore not maximize the unit's potential. Prior to the installation, make sure that all the hardware components required to install the system are in the box.

#### **Notice**

The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of the product, be that either damage to the vehicle itself or to the Unit. This Unit must be installed by a certified technician using all safety devices supplied. Only registered technicians will be eligible to use the Prostart technical support telephone service. Please review the Installation Guide carefully before beginning any work.

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- The following is a list of components included in the kit:
- 1 Control unit.
- 2- CT-200 transmitters 0
- 1 plug-in L.E.D 0
- 1 Hood-pin switch 0
  - 1 plug-in valet button.

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- 1 user guide 1 - installation guide.
- The kit also includes the following harnesses:
- 1 2 pin Wire harness.

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1 – 5 pin Main harness.

- 1 12 pin principal auxiliary 0 harness
- 1 3 pin connector cable

## Installation Points to Remember

- When working on a vehicle always leave a window open.
- o Never leave the keys in the car. Leave them on a workbench with a window rolled down.
- o If possible, remove courtesy light fuse to prevent battery drain.
- o Inspect vehicle for any body damage or electrical problems.
- Make sure that all the switches and controls operate properly.
- o Verify that the vehicle starts and idles properly.
- Never install control unit where it could interfere with normal operation or obstruct service technicians.
- o Do not disconnect the battery on vehicles equipped with air bags and anti-theft radios.

- o Always use a grommet when running wires into the engine compartment.
- Never run wires through bare or sharp metal.
- Always solder and tape all connections.
- o Never ground the control unit to the steering column of the vehicle.
- When you probe /test the wires of a harness. make sure you check the plug-in connector.
- o The wires for the air bags aren't always identified on the harness (split loom or a yellow tape). However they are always identified on the connector.
- o Keep the Transceiver away from other types of antennas (GPS/Onstar).
- o Make sure all security equipment is installed: the Valet switch, the hood pin and the warning

## Programmable Features

The unit was designed with flexibility and OEM integration in mind. The system gives installers the output flexibility that every good installer is looking for; this unit can be customized and used for almost every possible application.

With the integration of timed-latched and ON / OFF outputs, this unit can single-handedly control virtually any electrical system in the car!

#### The programmable features are as follows:

#### 1. Ignition-Controlled Door Locks

- . OFF by default. This feature will LOCK all the Doors of the vehicle while the Ignition Key is in the IGNITION ON (RUN) position and only when all the doors are closed (there is no recurrence of this action). The unit will UNLOCK all Doors when the Ignition Key is turned back to the OFF position.
- If Ignition Lock Only is selected, the system will only LOCK all Doors while the Ignition Key is in the IGNITION ON (RUN) position and only when all the doors are closed (there is no recurrence of this
- If option Ignition Unlock Only is selected, the system will UNLOCK all Doors when the key is turned to the OFF position (provided that the Ignition key was in the IGNITION ON (RUN) position).

#### 2. Passive or Active Arming

• (Passive with a 1-min. time out by default.) The alarm system on this unit can be set to active mode (in which it will not arm itself automatically) or to passive mode (arms itself automatically) with a 1-minute

#### 3. Door Lock Pulse Duration

• (¾-sec. lock and ¾-sec. unlock pulses by default.) This system can be programmed to give either 3.5sec. lock /unlock pulses (this is used to control vacuum door-lock system, for instance on Mercedes) or a single 3/4 -sec. lock pulse with a double 1/4-sec. unlock pulse (this is used for double-pulse disarm/unlock systems, as in the Maxima, Pathfinder, and Volkswagen...)

#### 4. Relock

 If you unlock the doors with the remote transmitter, but do not open any door or trunk within 60 seconds, the doors will automatically relock.

## Harness Description 5 PIN HARNESS

WIRE	Wire colour	Function	Description
1	BLACK	(-) CHASSIS GROUND INPUT	factory ground bolt rather than a self-tapping screw.
2	RED	+12V POWER INPUT	Connect to the +12 V power feed of the vehicle, at the Ignition harness. The source wire should have +12 V without Ignition key in the cylinder.
3	GREY	(–) HOOD SWITCH INPUT	Connect this wire to the installed hood pin switch supplied.
4	YELLOW / BLACK	PARKING LIGHT INPUT	Connect to ground or +12 V for polarity control on pin #5
5	YELLOW	PARKING LIGHT	Connect to parking lights circuit of the vehicle. This wire will give either a positive or a negative output; depending on the polarity of pin #4.

#### 12 PIN HARNESS

WIRE	Wire colour	Function	Description
1	PINK	(+) IGINITION INPUT	Connect to the Ignition wire of the vehicle. The source wire should have +12 V with the ignition key in the <b>IGNITION ON (RUN)</b> and <b>CRANK</b> positions.
2	PURPLE	NA	
3	GREY / Light BLUE	(-) TRUNK INPUT	Connect to the wire that tests ground with trunk open
4	GREY / GREEN	(-) NEGATIVE TRIGGER INPUT	When connected to the wire that provides ground when remote started this input will cause the alarm system to ignore the ignition and shock sense while running by remote start. (Trigger alarm input — selected <b>by Default</b> )
5	WHITE / RED	N/A	
6	WHITE / BLUE	N/A	
7	GREY / BLACK	(-) DOOR TRIGGER INPUT	Connect to the wire that tests ground with a door open. <b>Note</b> : This wire should monitor all the doors.
8	GREY / RED	(+) DOOR TRIGGER INPUT	Connect to the circuit of the car giving +12 V when a door is opened (usually the dome-light circuit).
9	BLACK / Light BLUE	(–) AUX 1 output	This wire will provide 500mA ground output depending on the configuration of Mode 1, Function 5 (see programming options)
10	BLACK / BROWN	(–) AUX 2 output	This wire will provide 500mA ground output depending on the configuration of Mode 1, Function 4 (see programming options)
11	BLACK / GREEN	(–) AUX 3 output	This wire will provide 500mA ground output depending on the configuration of Mode 1, Function 3 (see programming options)
12	BLACK / PINK	(–) Zone 2 Disable Output (armed output)	This wire will provide a constant 500mA output when the system is armed (locked by remote control). It can be connected to an external starter interrupt relay.

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#### 3 PIN CONNECTOR - 2 WIRE HARNESS

Wire	Wire colour	Function	Description
1	GREEN	(–) Unlock output	Programmable 500mA negative output: 1/10-sec., 7/10-sec., 4-sec. or double 1/4-sec. pulse ( <b>ON</b> 250 ms, <b>OFF</b> 500 ms, <b>ON</b> 250 ms)
2	No wire	re (+) 12V This pin provides +12V output for INV-200 module	
3	BROWN	(-) Lock output	Programmable 500mA negative output: 1/10-sec., 7/10-sec. or 4-sec. pulse

#### 2 PURPLE WIRES

These wires serve as a starter kill. Cut the factory starter wire (from the vehicle) in half and connect the two cut wires to the 14 AWG purple wires on the module.

## How to Flash the Hood Pin

Tion to Hash the Hood IIII	
THE INSTALLER	THE MODULE
Press and hold the hood pin for 4 seconds. Release the hood pin. While the parking lights are on, press down the hood pin once more	Parking Lights "ON" "ON" for 20 seconds
and release the hood pin immediately.  You now have 20 seconds to select one of the sub-menus	5.15. 20 00001100

## Programming a Transmitter

The transmitter does not come pre-programmed and must be programmed after the wiring of the module is completed. The system can retain up to 4 different transmitter codes; if a fifth transmitter is programmed, the code of the first transmitter in memory will be lost. To erase all transmitters from memory, perform a module reset.

#### Proceed as follows to program a new transmitter:

- 1. Flash the hood pin (see above) the parking lights will stay on for up to 20 seconds.
- 2. Before the lights go out, turn the ignition key to the **ON (RUN)** position
- 3. When the lights are off, turn the key to the OFF position.
- 4. Press and hold the or button until the parking lights flash 5 times quickly.
- 5. The transmitter has been stored in memory.
- To exit: close the hood.

To program a transmitter on the second vehicle for multi-car operation, you must press the button (instead of or ) in step 4 of the transmitter programming procedure.

## **Programming Options**

The system is equipped with two custom programming menus that allow the installer to custom-fit the outputs of the system according to the requirements of each vehicle.

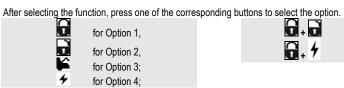
#### Proceed as follows to enter custom programming:

- 1. Flash the hood pin switch (see above) the parking lights will stay on for up to 20 seconds.
- Before the lights go out, press and hold the valet button and then press one of the following buttons:

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	to access mode 1;
	to access mode 2;

- 3. The parking lights will flash to confirm entry into a mode.
- 4 Release the valet button

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### **Programming Options**

1 Togrammin	• .	
MODE 1		ATES DEFAULT SETTING
FUNCT		controlled door locks
	OPTION 1*	Ignition lock disabled
	OPTION 2	Ignition lock enabled
	OPTION 3	Ignition unlock ONLY
	OPTION 4	Ignition lock ONLY
FUNCT	ION 2 – Door loc	
	OPTION 1*	7/10-sec. lock/unlock pulses
	OPTION 2	4-sec. lock/unlock pulses
	OPTION 3	7/10-sec. lock pulse and two ¼ -sec. unlock pulses
	OPTION 4	1/10-sec. lock/unlock pulses
FUNCT	ION 3 - AUX3 Pro	ogramming – Press the 🗭 button for 4 seconds (for options 1 through 5)
	OPTION 1*	Constant while button is pressed
	OPTION 2	Toggle ON – Toggle OFF
	OPTION 3	60-second pulse
	OPTION 4	1-second pulse with Unlock pulse and Disarm pulse
	OPTION 5	1-second pulse with Disarm pulse. Once the Trunk is closed, Arm pulse after 5-sec. delay.
	OPTION 6	Disarm function (with UNLOCK button)
		L
FUNCT	ION 4 - AUX2 Pro	ogramming – Use with 7 button (for options 1 through 4 and car finder)
	OPTION 1*	Constant while button is pressed – Car finder disabled
	OPTION 2	Toggle ON – Toggle OFF with 30 seconds timeout or until ignition ON – Car finder disabled
	OPTION 3	30-second pulse - Car finder disabled
	OPTION 4	60-second pulse - Car finder disabled
	OPTION 5	Retain accessory output - Car finder enabled
	OPTION 6	Arm output - Car finder enabled
FUNCTION 5 – AUX1 Programming		ogramming
	OPTION 1*	Priority door
	OPTION 2	Dome light output for 60 seconds
	OPTION 3	Arm output
	OPTION 4	Disarm output
	OPTION 5	Retain accessory output

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MODE 2 *INI	DICATES DEFAULT SETTING		
FUNCTION 1 – Re-loc	K		
OPTION 1	Disabled		
OPTION 2*	Enabled – Relock all doors 60 seconds after unlocking and no door nor trunk is opened		
FUNCTION 2 – Siren /	Horn Chirps (Available only on some models)		
OPTION 1	Warning chirp only – Lock confirmation if Lock button is pressed more than once - 3 chirps if a door is opened and Lock button pressed - 4 chirps if Unlock button is pressed and an intrusion occurred		
OPTION 2*	Chirp enabled		
OPTION 3	Chirp enabled with open-zone notification (Siren / Horn warning 10sec after arming if a door is opened)		
OPTION 4	Chirp disabled – Lock confirmation if Lock button is pressed more than once		
FUNCTION 3 – Arming	1		
OPTION 1	Active arming		
OPTION 2*	Passive arming – 60 seconds rearm		
OPTION 3	Passive arming – 60 seconds rearm. No TWO-STAGE disarm.		
OPTION 4	Active arming with disarm notification (ignition ON to OFF, door opened and then closed)		
FUNCTION 4 – Ignition	FUNCTION 4 – Ignition monitoring with Siren / Horn mode (Available only on some models)		
OPTION 1	Siren mode with ignition monitoring disabled		
OPTION 2*	Siren mode with ignition monitoring enabled		
OPTION 3	Horn mode with ignition monitoring disabled		
OPTION 4	Horn mode with ignition monitoring enabled		
FUNCTION 5 – Negati			
OPTION 1	Ignition and shock bypass under remote start.		
OPTION 2*	Trigger alarm input		

## Siren / Horn Chirp Duration Adjustment (Available only on some models)

The default horn chirp duration is 25 ms. In order to adjust the timing for the Siren, select MODE 2 – FUNCTION 4 – OPTION 1 or 2. To adjust the timings for the Horn, select MODE 2 – FUNCTION 4 – OPTION 3 or 4. The siren/horn chirp duration can be configured by following these steps:

- 1. Flash the hood pin switch (see on page 4) the parking lights will stay on for up to 20 seconds.
- 2. Within 20 sec. press and hold the valet button.
- 3. Press the button to enter horn chirp duration adjustment Siren or Horn will chirp 5 times.
- 4. Proceed as follows to change the horn chirp duration:
  - a. Every time you press the button, the system will *increase* horn chirp duration by 3 ms. When chirp duration reaches its maximum value (250 ms the siren / horn will sound 1 long chirp.
  - b. Every time you press the button, the system will increase horn chirp duration by 10 ms. When chirp duration reaches its maximum value (250 ms) the siren / horn will sound 1 long chirp.
  - c. Every time you press the button, the system will decrease the horn chirp duration by 3 ms. When chirp duration reaches its minimum value (10 ms), the siren / horn will sound 1 long chirp.
  - d. Every time you press the button, the system will decrease the horn chirp duration by 10 ms. When chirp duration reaches its minimum value (10 ms), the siren / horn will sound 1 long chirp.
  - e. To save the settings and exit horn chirp duration adjustment, press the **1** + **1** buttons simultaneously (or the press button on the two-way remote). The siren / horn will sound 3 chirps. Then turn the ignition key to the **OFF** position.

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**Note**: As a rule, you will hear only one short chirp for each adjustment of the horn chirp duration. Nevertheless, you will hear a long chirp (approx. 1 second long) if either the minimum value (10 ms) or maximum value (250 ms) is reached.

## Dome Light Delay.

When the doors are being closed and the vehicle is armed, the module will check the dome light to detect whether a door has been left open. If the dome light is on, the system will generate three chirps to warn the user that a door has been left open (There is one chirp if Mode 1 – Function 5 – Option 2 is selected)

## **Retain Accessory Output**

Retain Accessory output is activated as soon as key is turned to the ON position. When the key goes from ON to OFF position, the accessory output stays ON and a countdown period of 10 minutes is set. The output is turned OFF after 10 minutes or if a door is opened anytime during the countdown period.

Note: The Accessory Output is also turned off while starting the car.

## Zone 2 Disable Output

The unit is equipped with a zone-2 disable output that can be used to immobilize the vehicle when the system is armed. Zone-2 disable operates in addition to the built-in starter kill.

The unit will give a negative output when the system is **armed** (locked by remote); this wire can therefore control an external relay to interrupt the fuel pump or the Ignition.

The starter kill circuit can be configured to passive mode (to arm automatically) with a 1-minute timeout. Otherwise it can be configured to active mode (in which it must be armed by the user).

Note: Installation of a 2<sup>nd</sup>-zone disable requires an external relay (not included!).

## Multi-car Operation

This allows the user to control two systems with one transmitter. (Both vehicles must be equipped with identical modules)

The remote transmitter of the primary vehicle can control the starter kill system, the door lock and unlock operations of the second vehicle. The remote transmitter of the second vehicle can also operate the primary vehicle.

\*To program a transmitter for a second vehicle under multi-car operation, you must press on button of the transmitter in step 4 of transmitter programming procedure (see page 4).

## Resetting the Module

The system is equipped with a reset function that allows the installer to erase all transmitter codes and return all programming options to their factory defaults.

#### To reset the module:

- Flash the hood pin switch (see on page 4) the parking lights will stay on for up to 20 seconds.
- 2. Immediately press and release the valet button 5 times.
- 3. The parking lights will flash 8 times upon reset.

**Note**: After a reset has been performed, the system will set all options back to their default values (see the programming page for default values) and all transmitters will need to be programmed again.

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## Diagnostics - Parking Lights Flash Rate

FLASHES	RATE	DESCRIPTION	
1	Quick	Locked by transmitter, system armed (starter kill, alarm)	
2	Quick	<ul> <li>Unlocked by transmitter, system disarmed (starter kill, alarm)</li> <li>System has exited valet mode</li> </ul>	
3	Quick	<ul><li>Locked by transmitter while a door opened</li><li>System has entered valet mode</li></ul>	
5	Quick	New transmitter programmed	
8	Quick	Unit reset: Occurs when the unit is reset to factory defaults	

## Closing Up

Use tie-wraps or screws to properly secure the starter Module and keep the wiring away from any moving parts such as the Parking Brakes or Steering Column Shafts. Mount all switches in good and accessible locations where they do not risk getting kicked or hit accidentally.

Most comebacks are the result of misunderstandings about how a product works or performs. Take the time to properly explain all functions and features to the customers before they leave the premises. Doing this will save time and money.

Always make all your connections before plugging in the Module, and be sure to test all functions properly before closing up the installation.

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