PREMIER CANINE™ & HOTDOG™ SYSTEM

REMOTE DOOR OPENING AND TEMPERATURE MONITORING/ALERTING SYSTEM FOR CANINE VEHICLES

Congratulations! You have purchased the most advanced door opening and temperature monitoring system available today. Your Premier Canine System™ incorporates the acclaimed one-button door release features of the distinguished Bail Out™ system and the proven reliability of the Hotdog™ temperature monitoring system. *Criminalistics, Inc.* is committed to providing the best in reliability, quality and support at an affordable value.

K-9 Officers & Installers: PLEASE take time to read the instructions carefully. This is a lifesaving system, proper installation and operating procedures must be taken seriously.

Familiarize yourself with all system functions and operational modes.
TEST YOUR SYSTEM DAILY!

OVERVIEW/OPERATIONAL SUMMARY

Your PREMIER CANINE SYSTEM™ (optional upgrade for Hotdog™) door opening system is supplied with 49-pounds of pneumatic push power (a gas spring). This unique system will unlock, unlatch and push open your vehicle door with the press of a single button from up to 500 feet away. The door unlatch solenoid is rated for 40 pounds. Most door latches typically require a 5-pound pull. This unit has the strength to operate the door of most standard patrol vehicles. Your Premier Canine System™ is individually coded for a specific vehicle to ensure that the door with the corresponding code will open. A necessary advantage when multiple systems are used within an agency. As an added safety feature, there is a Door Opener interlock, where the vehicle must be in Park, Neutral or a VSS (Vehicle Speed Sensor) sensor connection, which will disable the door opening function when the vehicle is moving.

If your programmed maximum temperature is exceeded and/or the back up sensor maximum temperature is exceeded (93°F - 94°F) your Premier Canine / HotDog System™ will lower two electric windows, activate the Accessory output (typically a horn or lights), summon you via an *optional* pager, from up to 1 mile away, and turn on the high volume fan. Your system will cycle/alert continuously until the interior temperature decreases below the programmed maximum temperature or below the back up sensor reset temperature of (92°F) unless the unit is turned off by the user, or if the vehicle battery dies. There is a 30 second delay between high temperature detection and alarm activation. This is to help minimize "false" alarms.

The unit has a new 2 – stage low battery detection / protection circuit. When the vehicle battery drops below 11.2v for at least 5 minutes, the alarm will active. The LCD display will show a warning 30 seconds before alarm activates - your Premier Canine / Hotdog System™ will lower two electric windows, activate the Accessory output (typically a horn or lights), summon you via an *optional* pager, from up to 1 mile away, and turn on the high volume fan. If voltage returns above 11.2v for 15 seconds, alarm will stop. A second stage detection will help protect battery from damage and will activate when the battery voltage drops below 10.6v for 20 mins. At this point the alarm will turn off the fan and lights. When battery voltage returns above 10.6v, but below 11.2, that alarm will activate again. Please note – 11.6V is considered a discharged battery.

The optional pager can also function as a vehicle burglar alarm with the addition of *options* that include glass breakage detectors, motion sensors, key lock alarms and starter kill functions. Please feel free to contact Criminalistics, Inc. for additional information regarding these products.

Operation and Programming:

Turning Unit On:

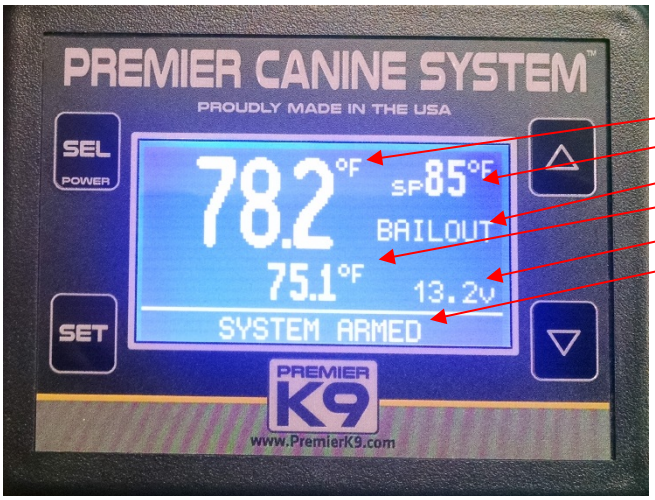
The unit will turn on automatically when the ignition switch it turned on. The unit can also be turned on manually by pressing and holding the "SEL" button for approximately 3 seconds. When system is first turned on, there is a 240 second delay before system is "armed."

Turning Unit Off:

To turn unit off, press and hold the "SEL" button for approximately 3 seconds. The system will stay on until the unit is manually turned off or the vehicle battery dies.

Screen Layouts:

Main (default) screen:



This is the screen the system will default to. If another screen is display, the unit will return to this screen after 30 seconds of no button presses.

A) This screen shows main probe temperature.
B) "High" temperature alarm point set point (sp)
C) Bail Out™ status (optional upgrade HotDog™)
D) Backup probe temperature
E) Vehicle battery voltage
F) Various system status messages.

To set "High" temperature alarm point:

A) With the system On press & release the "set" button.
B) The set point (sp85) will start flashing.
C) While the set point is flashing, use the up/down arrows to raise or lower the "High" temperature alarm point. Once the desired "high" temperature is reached, press the "SET" again to save the new temperature. High temperature alarm point is now set. (Blinking will stop).

Programmed temperature settings are maintained in on-board EEPROM memory, which will save settings even with power removed. NO back-up battery is required.

Alarm condition messages:

SYSTEM ARMING – XXs	---System has just been turned on, status delay is running
SYSTEM ARMED	---All's well, system on and active.
CHECK MAIN PROBE:	---Main probe either unplugged or damaged
CHECK BACKUP PROBE:	---Backup probe either unplugged or damaged
NO PROBES DETECTED:	---Both main and backup probe either unplugged or damaged (System will automatically active alarm in this condition.)
TEMP ALARM IN - XXs:	---"High" temperature condition detected by main probe, alarm will occur in 30 seconds or less.
BU ALARM IN - XXs:	---"High" temperature condition detected by backup probe, alarm will occur in 30 seconds or less.
TEMPERATURE ALARM:	---"High" temperature condition on main probe has activated alarm.
BU TEMPERATURE ALARM:	---"High" temperature condition on backup probe has activated alarm.
LOW BATTERY IN - XXs:	---Low Battery detected, Alarm will occur in 30 seconds or less.
LOW BATTERY ALARM:	---Low Battery has been detected.
OPTION IN ALARM:	---Optional input has activated alarm
BAILOUT DISABLED:	---Vehicle motion detected, Bail Out™ feature disabled (optional upgrade Hotdog™)

Temperature Alarm Sequence of Events: When a Temperature Alarm situation occurs 3 things happen simultaneously: Audio/Visual indicators are activated (typically Horn Honk, Light bar, or Brake lights). Window A rolls down for 5 seconds and the Fan comes on at high speed. After Window A rolls down Window B will roll down for 5 seconds (if connected).

Bail Out™ (door opener) Function (Premier System Only):

This function is activated when the button is pressed on the remote transmitter.

If the vehicle is using any of the vehicle motion sensors the door unlatch function will not function until the sensor is in an "armed" condition. Sensor can be VSS (Vehicle Speed Sensor), Park + (a 5-12vdc signal when the vehicle is in Park or Neutral), or Park – (a ground, when the vehicle is in Park or Neutral).

Sequence of events on a Door Opener button press: Door unlocks, then unlatches. The gas spring pushes the door open allowing the K-9 partner to exit the vehicle.

Note: The display must show "BAILOUT" for the Premier Canine System™ Alarm function to operate properly.

WARNING: If jump starting the vehicle the Premier Canine System™ is installed in or using the vehicle to jump start another vehicle, turn off the Premier Canine System™. Failure to do so could possibly damage your Premier Canine System™ and is not covered by warranty.

Fan screen:

This screen allows you to manually turn on the fan. To get to this screen, from the "Main" screen, simply press & release the "SEL" button.

To select new fan mode/speed, press & release the "SET" button and then use the up/down arrows to select new setting, then press "SET" to accept. If any alarm condition occurs while fan is set to low or medium, the unit will automatically change the fan speed to high.

To return to main screen press "SEL" 2x or wait 30secs for system to return to default screen.

Display Setup screen:

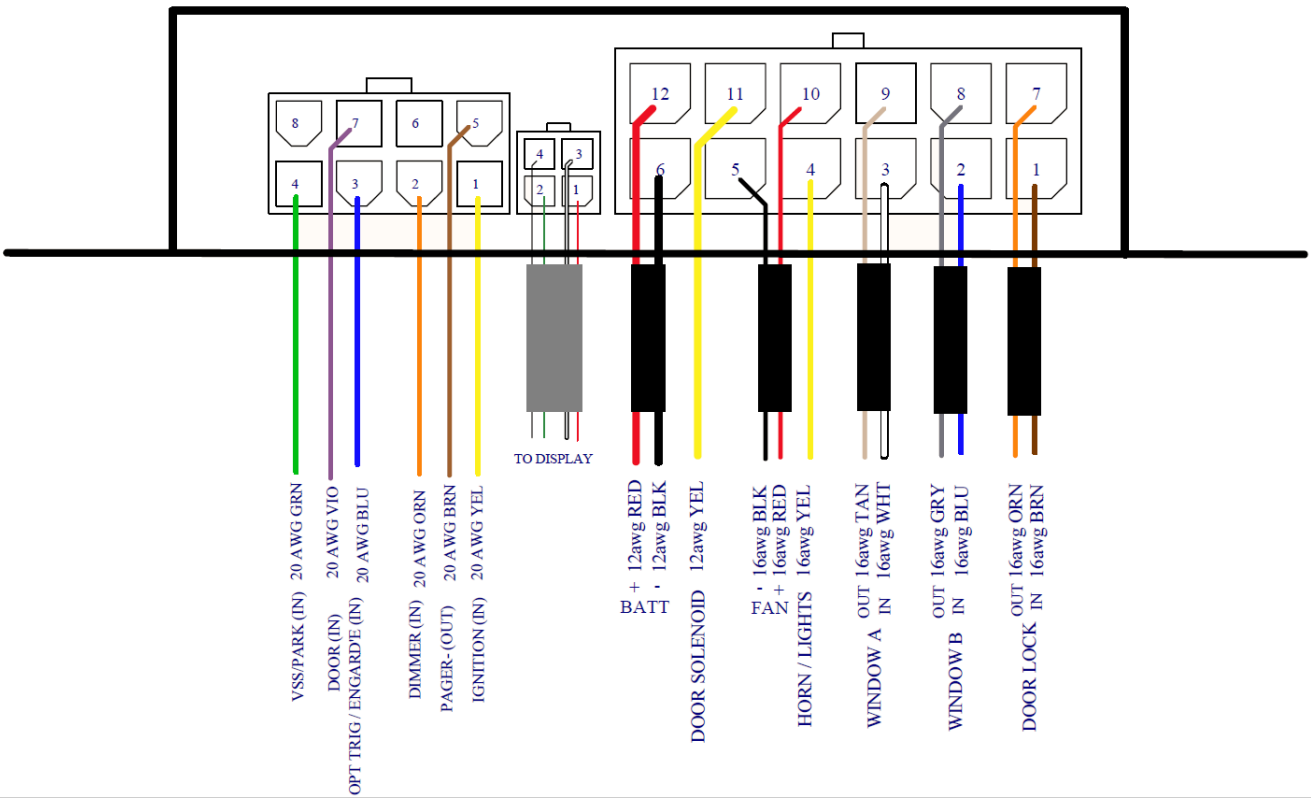
This screen allows you to adjust the LCD backlight brightness. To get to this screen, from the "Main" screen, simply press & release the "SEL" button two times.

Use the up/down arrows to select Day or Night. Press & release the "SET" button and then use the up/down arrows to select new setting. Press "SET" to accept. Note: the backlight brightness will change as you adjust the setting.

Day mode is used when there is 0v on the dimmer input, Night is used when there is voltage 3-12V on the dimmer input (i.e. dash lights are on.)

Installation

Below is the pin out of two main connectors.



Connection List

Note: Many Late 08 and newer vehicles are using dual action switches for Doors, Locks and Windows. For these Vehicles you will need to use a DPDT interface relay. ***(Both the ground and power to the device are switched)***

Small Molex Mini-Fit Jr.(White)

Pin #	Description
1	Ignition Signal input (12V when in vehicle ignition is in "RUN" position
2	Dimmer Voltage input (Dash dimmer wire)
3	Optional alarm input (GND or +12V)
4	VSS / Park / Neutral input (VSS, GND or +12V
5	Optional Pager trigger output (low when alarm active)
6	Optional output (future use)
7	Door Switch input (future use)
8	-(future use)

Large Molex Mega-Fit(Black)

Pin #	Description
1	From Door Lock Switch (Door for Dog Exit)
2	Window B, In from Switch
3	Window A, In from Switch
4	Pulse Output - to Horn or Lights
5	Fan ground (GND)
6	Ground (GND), Battery, Chassis
7	Door Lock, Out to actuator
8	Window B, Out to motor
9	Window A, Out to motor
10	Output to Fan +
11	Output to Door Latch Solenoid
12	Primary DC in from Vehicle Battery

List of Package Contents

Each kit can be ordered with an optional fan. Available fan sizes that are regularly stocked are:
- 7.5”
- 10”

Other sizes available by request.

Other options available:
Pager System
25ft Temperature Probe Cable
50ft Temperature Probe Cable
60lb Door Pull Solenoid
65lb Gas Spring Kit
2015/16 Tahoe door pull Adapter
DPDT wired relay for Unlock/Window interface for Dodge / Chevy Tahoe.
3xSPDT wired Relay for Tahoe Unlock/Child Safety Unlock.

Each Premier / Hotdog System™ includes the following hardware:
- Premier Control Unit
- Premier Head Unit
- 2x 12ft Temperature Probe Cable
- Output Wire Harness composed of:
  - Power Wire (+ Battery, 12 awg RED) w/in-line fuse link & 40A Fuse (30A with HotDog™)
  - Ground Wire 12 awg BLACK
  - Horn / Lights Wire 16 awg YELLOW
  - Window A wires – 16 awg WHITE (In) / 16 awg TAN (Out)
  - Window B wires – 16 awg BLUE (In) / 16 awg GRAY (Out)
  - Fan output wires – 16 awg RED (+) / 16 awg BLACK (-)
  - Fan output wires – 16 awg RED (+) / 16 awg BLACK (-)
  - Door Unlock wires – 16 awg BROWN (In) / 16 awg ORANGE (Out) --Not included with HotDog™
  - Unlatch Solenoid 12 awg YELLOW --Not included with HotDog™

- Input Wire Harness composed of:
  - Ignition input wire – 20 awg YELLOW
  - Dimmer input wire – 20 awg ORANGE
  - Option Alarm input wire – 20 awg BLUE
  - Optional Pager Trigger – 20 awg BROWN
  - Optional Door input – 20 awg VIOLET --Not required with HotDog™
  - Bail Out™ Disable / VSS / Park – 20 awg GREEN --Not required with HotDog™

- Standard RAM “B” size ball mount base with Extra Short arm
- LCD Head unit cable – 15 ft

Each Premier Canine System™ includes all hardware included with Hotdog™ and adds the following:
- 49lb Gas Spring Kit
- Hand-held Remote
- Antenna Kit
- Unlatch Solenoid Kit

Installation Guideline

Please follow all instructions carefully. Your Premier Canine System™ is warranted against defective components and faulty workmanship for 1 year. Do not hesitate to call if you have any questions. Our engineers and installers are ready to assist you. You will need a DVM (Digital Volt Meter) for this installation. The 40-amp fuse is required (30-amp for HotDog).

INSTALLATION BY QUALIFIED ELECTRONIC TECHNICIAN IS HIGHLY RECOMMENDED.

Premier Canine System™ Control Unit

Your Premier Canine System™ Plus control unit is housed in a small black plastic enclosure that can be conveniently mounted in a remote location. The LCD head unit comes with a RAM Mounts size "B" ball round base that can be secured to center console, dash or other location for easy access by the driver. Optional suction cup and other style base mounts are available. When determining the mounting position of the LCD head unit, consider the following:

- Accessibility of your Premier Canine System™ switches for the operator.
- An area of the vehicle that is dry at all times.
- Keep your Premier Canine System™ unit away from any heat source; i.e. heater vents, transmission, floor, sunlight! The Heat Sensors must be handled with care. Do not crush, crimp, or twist the Sensor Black end piece.
- Do not install your Premier Canine System™ control unit under the vehicle engine hood or in direct sunlight.
- Do not install your Premier Canine System™ control unit near any radio equipment.
- Place Temperature Probe wire near canine compartment but out of canine's reach.

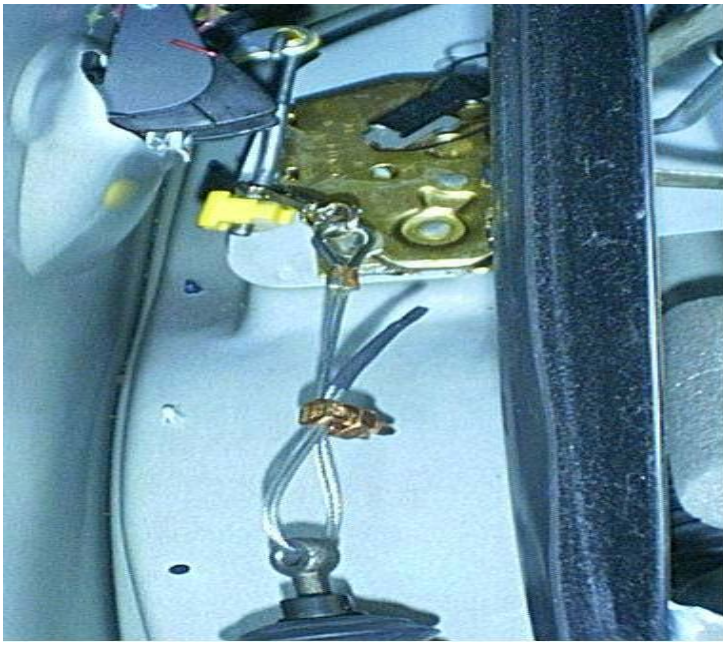
Door Unlatch Solenoid (Premier Only):

Select the door to open (traffic or curb side) and remove door panel, and any other obstacles, that block your access to the door's internal unlatch mechanism. Examine (with the door open) and operate the door with the outside door handle as if you were opening it, reach inside the door cavity up to the 3/16" rod that is being pushed down by the outside door handle operation. Observe/feel the downward action of the rod that is connected to the outside door handle. Working from the inside of the door, use your fingers and pull down on this rod to manually unlatch the door several times. (Engage the latch using a screw driver to simulate the door being closed and latched around the post. Remove the screw driver before trying to unlatch.)

Near the end of this rod is a factory connector; place the supplied clip lock hook, located at the end of the solenoid pull cable, over the end of the (external door handle) 3/16" rod directly at the connection point at the latch mechanism (piggy back solenoid cable clip lock hook on existing rod). *DO NOT mistakenly attach this solenoid to the inner door handle rod for it will not operate properly.*

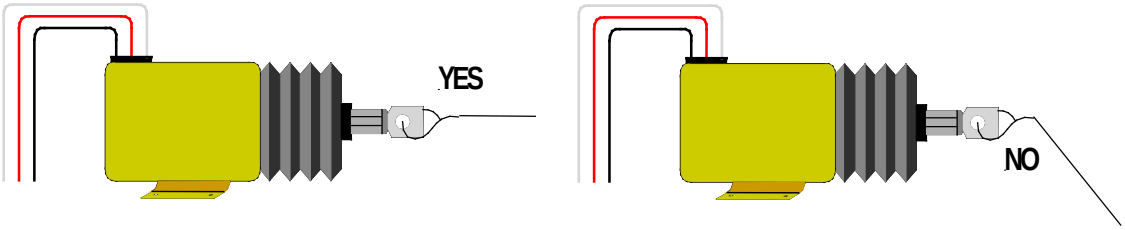
Some doors may require you to use an inspection mirror to see this rod and a pair of long needle nose pliers to apply the clip.

Note: A door latch lever typically travels a total of 5/8" beginning with 1/4" free movement and then as it moves to 3/8", it unlatches the door completely. The lever requires a minimum of 4 pounds pull and a positive travel of 3/8" to unlatch, which fits well within the solenoid travel of 1" and its pulling power of 40 pounds. The solenoid power is supplied by the vehicle battery and should be maintained by leaving the vehicle engine running during testing of door opening operations to prevent excess battery drain.



Mounting Solenoid:

Let the solenoid hang free from the door latch rod and use it as a positioning guide for mounting. In the standard Ford Crown Victoria, the solenoid mounts below the latch. With the door open looking at the latch end, under the latch, measure from the base of the latch opening down approximately 12" and move as far out to the outside door skin as possible. Not too far out because you will not be able to get the nut on the outer bolt of the solenoid mount. One bolt of the solenoid will be under the rubber weather strip. The actual mounting takes place inside the door cavity, only the bolt heads will show on the outer portion of the door end. Lay the solenoid in this position and *slowly* lower the window to check for clearance. Also, some door curvatures will not permit the mounting of the solenoid directly under the latch. The latch solenoid will work positioned off to one side as long as the "pulling end" points directly towards the door latch. Angle the solenoid mount accordingly.



The solenoid cable may be manually pulled while hanging. This will easily release the door latch, which may be manually reset to study the release action caused by pulling the solenoid cable. Keep in mind that a binding solenoid plunger from a sideways pull will not perform properly.

CAUTION: IF YOU ARE INSTALLING IN A GM VEHICLE, DO NOT make the solenoid cable tight. If there is too much tension in the line *the lock will jam and not release even after removing the solenoid cable*. You must test the latch setup several times by locking and unlocking the door. Then pull the outer door handle to check for proper exterior opening of the door. Ensure that the cable has a small degree of slack available. It is highly recommended to double check window and latch clearances before drilling and mounting the solenoid.

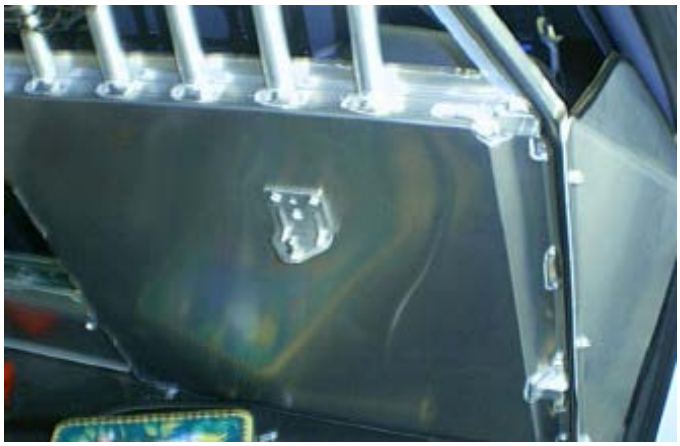
NOTE: Final adjustment should only be made after several test openings. Ensure the brass cable lock nut is tight.
All doors should be thoroughly tested before reinstalling the interior cover panel.

WARNING: *The solenoid is designed for momentary use. Do not activate power to the solenoid for extended periods of time or use the remote in rapid succession. The solenoid should not be activated more than four times (within 4 min's) before allowing the solenoid to cool. The solenoid weakens as it heats up and eventually damage will result after continued use in an overheated condition. A solenoid damaged in this manner is easy to identify and will not be covered under the warranty.*

Gas Charged Spring (Premier Only):

Your Premier Canine System™ Plus is supplied with a 49lb (push rated) Gas Charged Spring, two (2) ball mounting brackets, and bolts. The gas spring location is paramount; failure to plan ahead will hinder the door from opening correctly. The black cylinder attaches to the door frame at a position slightly higher than the pushrod (accommodating the internal oil flow of the gas spring). This position can be reversed if need be. The bracket may be fastened about 6" to 8" out from the front, hinged edge, of the door with the bottom measuring 18" across.

Gas Spring mounted photos in Crown Victoria.



With the door skin removed; enter the vehicle and close the door that you are attempting to open with the gas spring. Position the closed spring on the floor of your cage and examine which location is most suitable for attaching it to door.

If it is desired to mount the spring on the floor of the cage, position it as close to the vertical wall behind the front panel as possible. This will provide a wider passage area and remove the spring from the K-9's path while being deployed from the vehicle.

While the door is closed; examine the DOOR FRAME for an attachment point, usually located midway up the door frame. You may attach the gas spring to the door frame with one mounting bolt for testing. Do not drill the door's interior cover panel prematurely. Make a small cut in the door panel to allow the door gas spring bracket to pass through with the ball removed. Drill two holes in the door frame to temporarily hold the spring in place while the rear inside mounting position is being determined. Bolt the spring bracket to the door frame, but never to the aluminum cover.

Once you are satisfied with the spring position and installation remove the ball, mark your position on the cover, and cut aluminum/plastic/carpeted door panel. Mount the spring, remount the door panel, and reinstall the ball. Apply silicone sealant to fill the open hole in the door panel.

Electrical Connections:

It is strongly recommended to double check wire connections for proper termination, shorts, and pinched wires for clearances before connection to the battery and fuse insertion.

NOTE: Vehicle Manufacturers typically will not provide complete data on the various switching systems for window lock and unlock functions. Many Late 08 and newer vehicles are using dual action switches for Doors, Locks and Windows. For these Vehicles you will need to use a DPDT interface relay. *(Both the ground and power to the device are switched)*
Chevrolet and Dodge owners/installers pay special attention to your circuits.

Unlatch Solenoid (Premier Only):

Attach the positive wire from the unlatch solenoid to Premier Canine System™ connector pin #11. This will route the positive 12 Volts DC output necessary to enable the solenoid to unlatch the door. Connect the negative lead of the unlatch solenoid to a good ground point on the vehicle chassis.

Notes: Most doors have weak or poor vehicle grounds. Also remove paint/coatings from the surface around these connections to ensure a proper ground has been established. It may be necessary to run the vehicle engine during repetitive testing of the door opening function of your Premier Canine System™, to help prevent a low battery voltage condition from interfering with the testing process. The Premier Canine System™ has a low voltage detection system which will trigger the alarm system. (12.2v)

Electric Door Locks (Premier Only):

Use a voltmeter at the electric door lock actuator inside the door to locate the vehicle positive 12-volt door unlocks trigger line. The input on the electric lock/unlock actuator reverses polarity depending on the lock/unlock function. Verify that positive voltage is present during the unlock function. Cut the wire between the unlock switch and the electric door lock actuator. Route the BROWN/ORANGE wires provided to the subject door lock. Connect the BROWN wire to the wire that is attached to the switch side of the cut wire. Connect the ORANGE wire to the door unlock actuator side of the cut wire.

Electric Windows (A & B):

Use a Voltmeter at the electric window motor inside the door, locate the electric window motor input (positive 12 volts when the window is rolling down). The input to the electric window motor reverses polarity depending on the function. Verify that the input that has a positive voltage during the window roll-down function. Cut the wire between the window motor and the window switch. Make your connection close to the motor. Route the WHITE / TAN wires (Window A, Fan window) and BLUE / GRAY wires (Window B). For Window A - connect the TAN wire to the wire that is attached to the door window motor. Connect the WHITE wire to the switch side of the wire. For Window B - connect the GRAY wire to the wire that is attached to the door window motor. Connect the BLUE wire to the switch side of the wire.

NOTE: Proper connections will enable the vehicle window switch system to operate normally when your Premier Canine System™ is not in the alert mode. When your Premier Canine System™ system is activated in a heat alert mode, 12 volts will be present on the OUT wire(s) for 5 seconds at the beginning of the alert cycle, rolling down the windows one at a time.

Accessory:

Locate the positive wire of the desired accessory the Premier Canine System™ Plus has been designated to activate. The accessory must require a positive voltage for activation. Route the "YELLOW" accessory wire to the alerting accessory, typically the horn. Tap into the wire that delivers +12 volts to the accessory. If the horn is used, attach the accessory wire directly to the horn wire (do not go through the horn relay). Solder and apply heat shrink as necessary.

In case of horns with multiple positive wires: Use a voltmeter to determine which wire is delivering the highest voltage. Remove wire clip from the horn. Attach positive lead of voltmeter to wire. Touch negative lead to the vehicle's ground and activate the horn while you read the voltmeter. Repeat the test to measure additional positive reading wires. Attach the yellow accessory wire to the input where the highest voltage measurement was recorded.

NOTE: As shipped, your Premier Canine System™ Plus control units' accessory output is capable of driving ONE DEVICE ONLY. For example, do not connect to both horn and lights. To activate more than one alerting device you must use independent switching relays. Many Late 08 and newer vehicles are using dual action switches for Doors, Locks and Windows. For these Vehicles you will need to use a DPDT interface relay. *(Both the ground and power to the device are switched)*

Thermal Probes:

NOTE: Back Up Heat Sensor - Do NOT mount in a hot area. This sensor will trigger the heat alert functions of the Premier Canine System™ Plus at 93 degrees and reset at 92 degrees. Do not mount in an area that could exceed these temperatures during *normal operation* of the vehicle or in an enclosed console, dashboard, direct sunlight, or in front of an A/C heater vent.

This is the most critical part of the installation for the K-9 protection system to work properly. The Premier Canine System™ uses two temperature probes: The primary probe and a backup sensor probe.

The primary probe drives the large temperature display on LCD on Head Unit of the Premier Canine System™. The probe should be located in a place that best measures the K-9 environment air temperature. *Caution should be observed in keeping the probe away from the K-9's access to it and near heat or air conditioning sources (vents).*

The Backup probe is a safety device that is preset to activate the Premier Canine System™ if the K-9 area reaches approximately 93 degrees F. Since this is a backup probe it should not be placed in close proximity of the primary probe. *Keep the probe away from the K-9's access to it and heat or air conditioning sources (vents).*

Note: Both probes are identical and interchangeable.

Probe input locations

VSS/Park+/Park- (Premier Only):

The Premier Canine System™ Plus is capable of sensing ONE of the following:
VSS (Vehicle Speed Sensor), a vehicle developed signal, varying amplitude, square wave or sine wave, 20mvpp min. (VR)
Park +, a positive voltage, 5v or greater, when the vehicle is in Park or Neutral
Park –, a ground when the vehicle is in Park or Neutral

The unit is field programmable for type of sensor used. The Premier Canine System™ at time of manufacture defaults to the VSS configuration. This configuration can be changed by using the Service Screen on the LCD.

Service Screen

To access this screen, turn system on by applying 12V to the ignition signal or pressing & holding the "SEL" button for 3-4 seconds.

From the main screen, press & hold the "SET" button for approximately 7 seconds. The service screen remains active for 60 secs. of no activity. To exit it, wait 60 seconds or press "SEL".

With nothing flashing on the display, the up/down arrow moves the selection box. When you press "SET", the item inside the box begins to flash. You can then use the up/down to change the setting.

B/O INH – Bail Out™ Inhibit VSS setup – Choose VSS+/PARK-/PARK+
OPT TRIG – Optional Alarm Trigger input – Choose TRIG- / TRIG +
PAIR REM – Bail Out™ Remote S/N & Learn function.

Vehicle Speed Sensor (VSS) Hookup (Premier Only):

The vehicle speed sensor connection will disable the door latch solenoid if the vehicle is in motion. Please note; the vehicle must be in motion to test this operation. Consult your service manual for the color code of the VSS or utilize the enclosed charts. If you are still unable to locate the VSS color code, please feel free to contact our engineering staff for assistance. Typical turnaround time for common vehicles is usually one day or less.

Vehicle Speed Sensor Hookup

The green 20 awg conductor should be connected to the VSS. Normally the VSS vehicle wire is in the dash wire bundle (which varies with make and model) or it will need to be passed through the firewall and connected to the Vehicle Speed Sensor. There is also a rear differential sensor and on the driver's side (two wires entering the rear transmission housing prior the drive shaft.) The location and wire color combinations may vary depending on the make, model, and year of your vehicle.

Park + or – Hookup

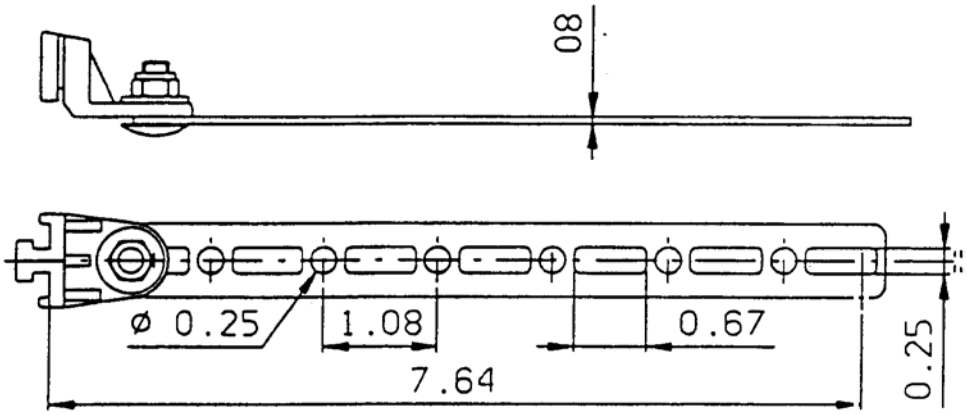
The green 16-gauge conductor should be connected to the park status wire in the dash bundle, shift sensor, MCU, or an installer supplied switch to detect that the unit is positively shifted to the Park or Neutral position. Park + is a positive voltage, greater than 5vdc, when the vehicle is in Park or Neutral. Park – is a ground when the vehicle is in Park or Neutral.

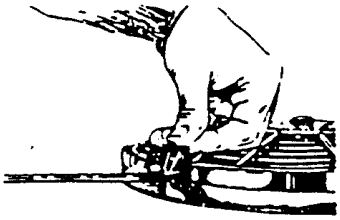
Verify the configuration by viewing Service Screen on the LCD. It should state VSS+, Park + or Park –
CAUTION: If you change the switch setting, verify the door opener only works for the mode selected, this is critical for the protection of the canine and the officer.

Learning New Remote (Premier Only)

The current firmware will store only one remote address. Future updates will allow multiple remotes to be learned. To learn a new remote address, access the Service Screen, select "PAIR REM", press "SET", the Up/Down to display LEARN. Press "SET" again and the press the button on the Remote. When the unit learns the new remote's address, it will be displayed.

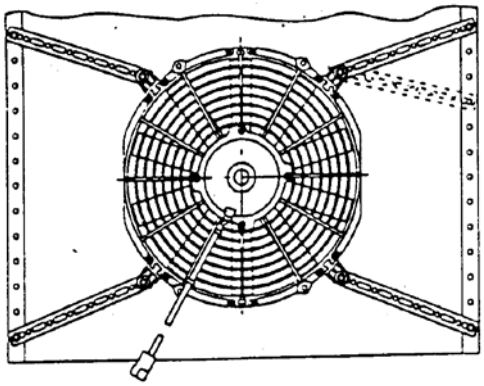
Fan Mounting Overview

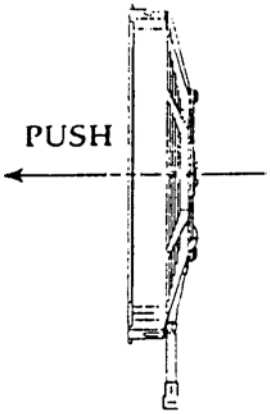




Mounting Bracket Kit
Consists of 4 brackets, 4 rods, and 4 fixing bolts.

Mounting brackets - slide into place on 4 locations around the fan.





Air Flow Direction

Fan Diameter that can be joined	Max. diameter
10”	25”
14”	

The Brackets and rods are adjustable and facilitate the most convenient position for mounting.

The chart above depicts the max diameter that can be connected with the mounting kit and size of fan selected. Example: a 10” fan with mounting brackets attached can span a maximum area of 25 inches.

General Operation:

When the system fan is turned on manually (not an alarm condition) it will run at either high or a lower preset speed.

If the fan is triggered by the Premier, it will run at “High Speed” only until the temperature falls below the high temperature set point or if Premier control box is switched off.

Note: ***If the Premier control unit is in an alarm condition it is not possible to override fan speed control with the manual LCD settings.***

Mounting of the Thin Fan:

The Maxi Thin Fan can be surface mounted to the dog cage or window grill covers.

1) Remove the front metal grill cover from the Maxi Thin Fan.
2) Remove the mounting bracket kit (if attached to the fan).
3) Find the desired location on the metal window grill (on the glass side) so that it will leave enough room for the window to freely move up and down without hitting the fan.
4) Place one flat washer between the fan and the grill for each of the four mounting bracket holes.
5) Place one flat washer on the top of the fan-mounting hole to protect the mounting bracket holes from damage.
6) Use four nuts and bolts to secure the fan to the window grill.
7) Utilize a flat washer on the mounting bolt to prevent it from going through the grill.
8) It may be necessary to notch the top of the door cover in order to run the Maxi Thin Fan power wires to the control unit through the door cavity and boot. Be sure to route the fan wires so that they are out of the K-9's reach.
9) Secure the wiring to the grill with tie wraps as needed to prevent them from being damaged.
10) Connect the Deutsch 2 pin connector to the fan power cable connector. A de-pinning tool is provided; in case the connector is too large for routing. If the pins are removed, re-insert the pins in the correct positions. (red to blue, black to black)

Maxi Thin Fan (Mounted directly to window grill)

Troubleshooting Guide

Warning: If the unit has been engaged with a temperature reading above 94^{0} F, the backup sensor must be cooled below 91^{0} F before it will reset. Failure to do so will result in the unit deploying continuously until it can be reset.

To disarm or turn off the Premier Canine / Hotdog System™: Press & Hold the "SEL" button.

Testing the Premier Canine / Hotdog System™: If you set the High alarm temperature to around 85° F, you should be able to activate the system with body heat generated in the palm of your hand. Hold the primary probe in your hand and observe the temperature increase on the front panel LCD. When the temperature reaches your high programmed temperature, your alerting system will be triggered.

Symptom or Issue	Possible Causes / Solutions
Alarm remains on	Set point is programmed improperly. Make sure setting is 75°F or higher (must be higher than ambient room temperature in your current location). Back up probe may have been activated, If the temperature has exceeded 93°F, cool physical body of back up sensor below 91°F for it to reset. You may use a freeze spray to accomplish this quickly.
Display reading is ---.-	The temperature has exceeded 190°F or is disconnected or probe is damaged. Verify for proper installation of the probe or Cool the vehicle off and the reading will return.
Fuse is blown or blows upon alerting.	Short in output control wires, windows or latch solenoid

Percentage of Charge	12 Volt Battery Voltage	Specific Gravity
100	12.70	1.265
95	12.64	1.257
90	12.58	1.249
85	12.52	1.241
80	12.46	1.233
75	12.40	1.225
70	12.36	1.218
65	12.32	1.211
60	12.28	1.204
55	12.24	1.197
50	**12.20**	**1.190**
45	12.16	1.183
40	12.12	1.176
35	12.08	1.169
30	12.04	1.162
25	12.00	1.155
20	11.98	1.148
15	11.96	1.141
10	11.94	1.134
5	11.92	1.127
Discharged	**11.90**	**1.120**

Please contact us with any questions. We are here to assist you.

Final Notes

Make sure that the system ground is connected to ground terminal of vehicle battery. Improper grounding will adversely affect the unit. After everything is complete, and the final battery connection has been made, power up your Premier Canine System™. Make sure a maximum temperature is programmed.

Ensure that the locations designated for both of the system's primary and back up temperature probes are not in direct sunlight or over/under the vehicle's heater vents, thus causing false alerts. Be mindful that chewed, eaten, snatched, cut, or otherwise damaged probes are not covered by the warranty.

***Please test your system daily*. When you enter the vehicle at the beginning of a shift and the vehicle is still hot, flip the Premier Canine System™ on and check to make sure it alerts. Do not assume that the vehicle or system has not been altered during your time away. This could result in deadly consequences.**

Limited Warranty

Criminalistics, Inc. warrants your Premier Canine System™ system to be free from defects in materials and workmanship for a period of one year from date of sale to the original purchaser. Criminalistics, Inc. will repair this product, free of charge, when product is returned, at customer expense, to Criminalistics, Inc. and if, in the judgment of our staff, said product has proven to be defective within the warranty period. This warranty does not cover any expenses incurred in the removal and reinstallation of this product.

This warranty does not apply to any product damaged by improper installation, accident, misuse, abuse, improper line voltage, fire, flood, lightning or other acts of God, or if the product was altered or repaired by anyone other than Criminalistics, Inc.

NOTE: Failure to follow installation guide, drilling into, opening the control unit, removal of any screws, improper mounting of the solenoid, or abusive use of the Premier Canine System™ voids the warranty. It is not necessary to hold down the button on the remote; a single firm press & release will do the job. Failure to comply with these instructions can damage the unlatch solenoid.

Criminalistics, Inc. shall have no liability for any death, personal and/or bodily injury, and/or damage to property or other loss whether direct, indirect, incidental, consequential, or otherwise, based on a claim that the product malfunctioned. However, if we are held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, our maximum liability shall not in any case exceed the purchase price of the product.

Thank you for purchasing Criminalistics, Inc. Products
Please keep this Warranty Statement with your Invoice

FCC / IC NOTICES
This product contains FCC ID: OJM900MCA / IC: 5840A-900MCA.

This device complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS standards. Operation of this device 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 a 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, uses 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 modifications could void the user's authority to operate the equipment.

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. 'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement