

# RS900ER / RS901 *SERIES III*

## OPERATING INSTRUCTIONS

*CONGRATULATIONS* on your choice of a *CoolStart™ Remote Engine Starter* by *Crimestopper Security Products Inc.* This booklet contains the information necessary for using & maintaining your remote start system. If any questions arise, contact your installation dealer or Crimestopper Security Products Inc. at (800) 998-6880.

**\*IMPORTANT NOTE- RS901 MODEL:**

When using an RS901 Expansion Module activated by a Host Alarm or a Factory Keyless Entry, the Infinity Run Mode feature will not be available.

### OPERATION CAUTIONS & WARNINGS

**CRIMESTOPPER SECURITY PRODUCTS, INC.** and its **VENDORS** shall not be liable for any accident resulting from the use of this equipment. This system is designed to be professionally installed into a car or vehicle in which all items, such as parking brake and all associated components, door switches, transmission shift linkage, throttle linkage, and all engine safety features, are in perfect working condition.

**DO NOT install the Remote Engine Starting System on MANUAL TRANSMISSION vehicles.** If accidentally left in gear the vehicle could become a self-propelled threat to life and property.

**IT IS ABSOLUTELY THE OWNER'S SOLE RESPONSIBILITY TO:** A) Understand the operation of this system and its safety features. B) Check for proper operation of these safety features prior to accepting delivery of the vehicle from the installation facility. C) Check and maintain the condition of the vehicle and all items relative to the proper operation of this system and its safety features. D) Always leave the doors and windows closed and locked to protect against accident and theft.

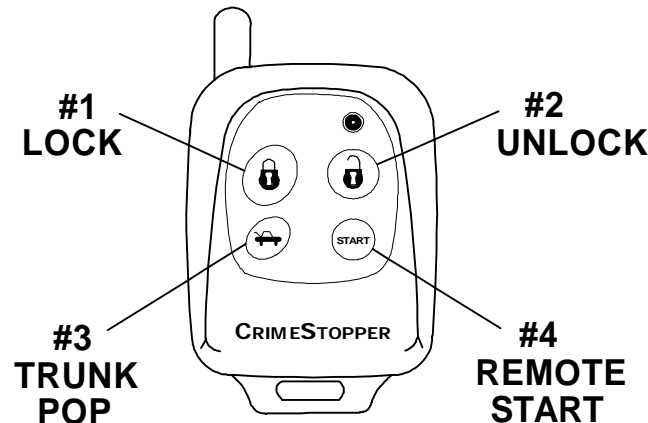
**DO NOT remote start the vehicle in a closed garage.** Make sure that the garage door is open or there is adequate ventilation. Failure to observe this rule could result in **injury or death** from poisonous Carbon Monoxide fumes.

**IT IS ABSOLUTELY THE OWNERS SOLE RESPONSIBILITY TO:** make certain the vehicle **PARKING BRAKE** is properly adjusted and will hold the vehicle securely in all parking conditions, and to periodically check and maintain proper adjustment.

This device complies with FCC Rules part 15. Operation is subject to the following two conditions: 1) This device may not cause interference, and (2) this device must accept any interference that may be received, including interference that may cause undesired operation. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. Such modification could void the user's authority to operate the equipment.

## OPERATING THE REMOTE TRANSMITTER (RS900ER ONLY)

The transmitter supplied with this system has Four (4) buttons / channels. The button configuration is Factory-set and unchangeable.

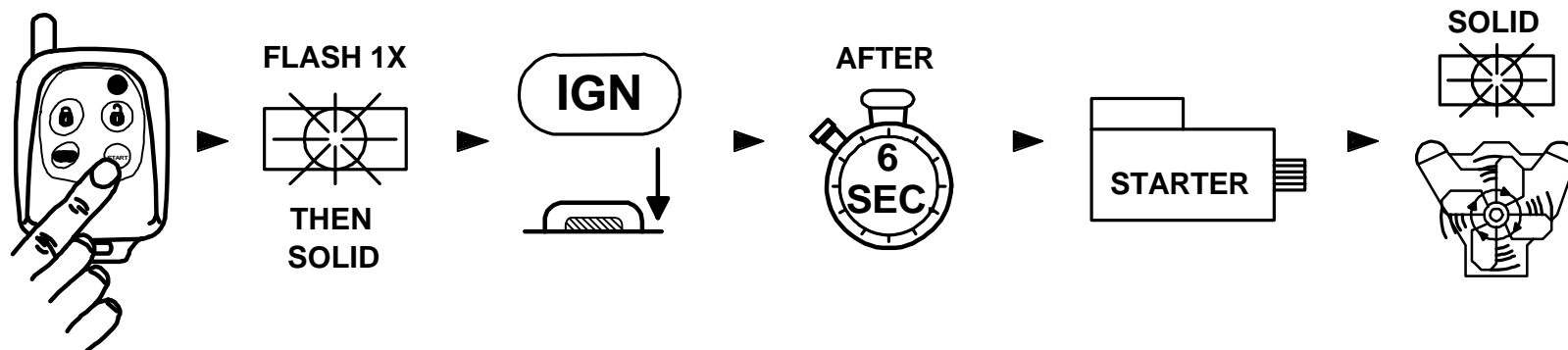


**NOTE:** When using the optional Starter Disable feature without power door locks, be certain to install the supplied L.E.D. which will be your **only** indication that the Starter Disable is active. You must press the UNLOCK button on the transmitter if the L.E.D. is flashing or the vehicle will not start.

## REMOTE ENGINE CONTROL

### REMOTE ENGINE STARTING - SUCCESSFUL START:

- 1) Press remote start button or for RS901 model activate Green Start input wire.
- 2) Parking lights flash once, then turn on solid, Ignition/Acc On.
- 3) After 6 seconds Starter Motor engages, Parking lights and Acc circuits turn off while cranking.
- 4) Engine Starts and Runs. Parking Lights and Acc turn back on, Doors Lock.
- 5) Engine will remain running for programmed run time until reset with Brake pedal. If needed, the engine can be turned off with remote transmitter or for RS901 model, activating the Green Start input wire.



# REMOTE ENGINE CONTROL

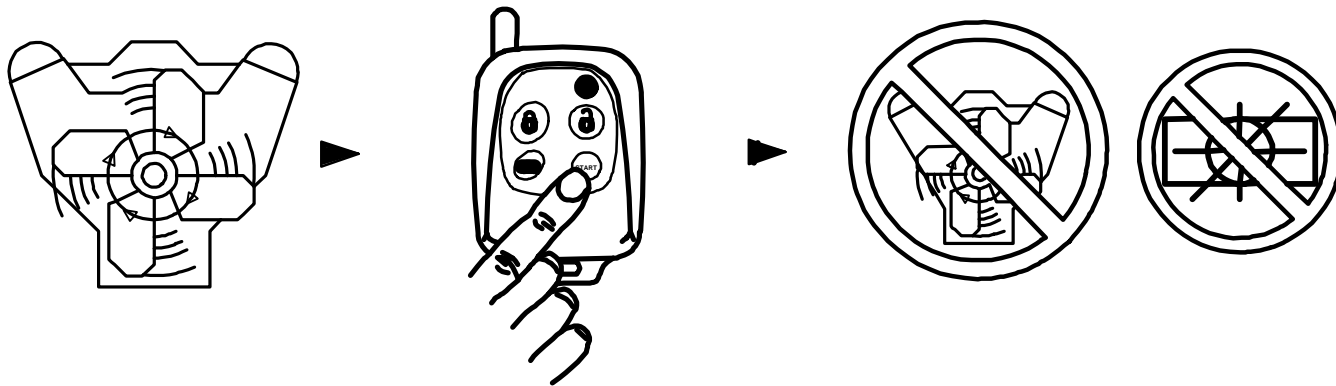
## REMOTE ENGINE STARTING - UNSUCCESSFUL START

In the event that the engine does not start on the first attempt, the system shuts down for a few seconds, then attempts to restart the engine a 2<sup>nd</sup> and 3<sup>rd</sup> time. For hard starting engines, the unit will allow a starter crank time of up to 13 seconds maximum. This should provide ample cranking time for difficult starts, but is limited to 13 seconds to help prevent damage to the starter from over cranking in the case of a malfunctioning unit.

- 1) If engine starts on 2<sup>nd</sup> or 3<sup>rd</sup> attempt, see steps 4 & 5 above of "Successful Start".
- 2) If Third attempt fails to start engine, the system will turn off and doors will remain locked. *NO FURTHER ATTEMPTS WILL BE MADE AUTOMATICALLY*

## TURNING OFF A REMOTE STARTED ENGINE:

- 1) Engine is running in Remote Start (Parking lights ON).
- 2) Press Remote Start button or for RS901 model activate Green Start input wire.
- 3) Engine turns & parking lights OFF, Doors remain locked or will re-lock/re-arm if applicable.



## IDLE DOWN MODE:

This mode allows the unit to take over operation of the parked vehicle while the ignition key is removed and you exit the vehicle. The vehicle is put into a remote running condition before you exit and it will remain running for the programmed run time or until you come back.

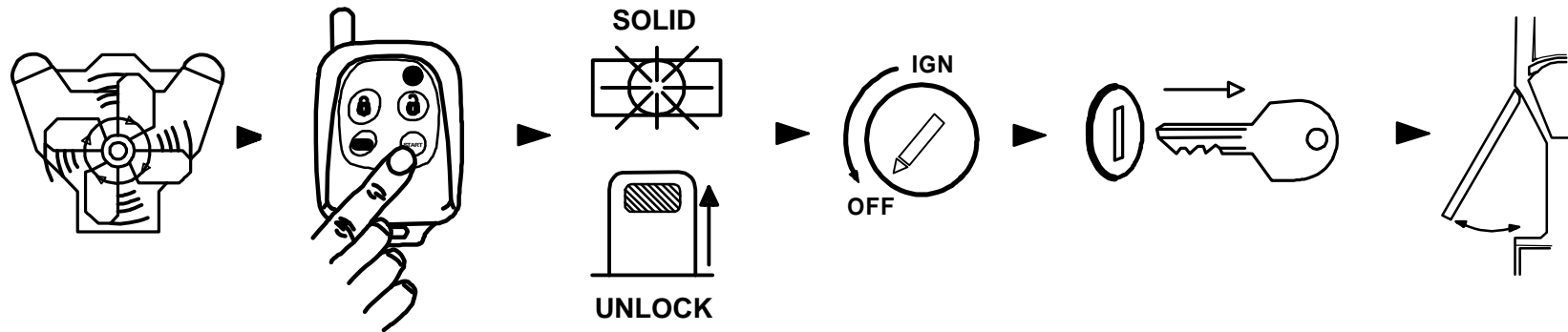
### **Examples:**

- ***You pull up to a convenience store for a quick stop, "Idle Down" mode keeps engine running when you exit the vehicle, (with keys in hand) remote lock doors or arm alarm. When you return, unlock or disarm alarm, turn ignition ON and drive away.***
- ***On some Turbocharged vehicles it is recommended that the driver leave the car at idle for a short time before turning the car off to allow the turbo to cool down.***

# REMOTE ENGINE CONTROL

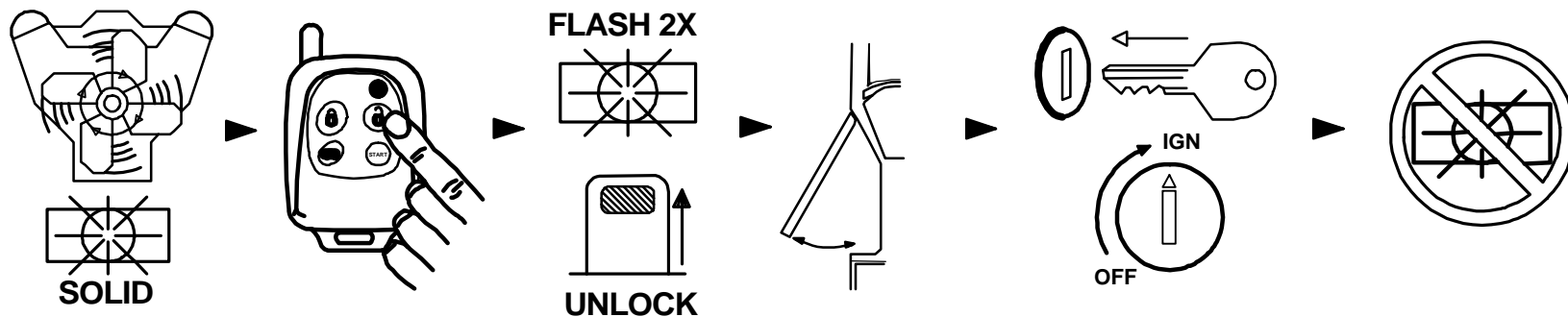
## IDLE DOWN MODE - EXITING THE VEHICLE:

- 1) With engine running, press Remote Start button or for RS901 model activate Green remote start input wire.
- 2) Parking Lights will turn ON.
- 3) Doors will unlock, or if brake pedal is being depressed doors will unlock when it is released.
- 4) Turn OFF Ignition and remove key. Engine should remain running.
- 5) Exit vehicle then remote lock doors if desired.
- 6) Engine will remain running for programmed run time or until you return (whichever comes first).



## ENTERING A VEHICLE DURING "IDLE-DOWN" or "INFINITY RUN" MODES:

- 1) With engine running in "IDLE DOWN" (parking lights ON), unlock door or (Remote unlock or disarm alarm if applicable)
- 2) Enter vehicle and be careful not to step on brake pedal! (Remote Start Reset)
- 3) Turn Ignition to ON/RUN position, then depress brake pedal to reset the Remote Starter. Parking lights will turn off. Then drive away.



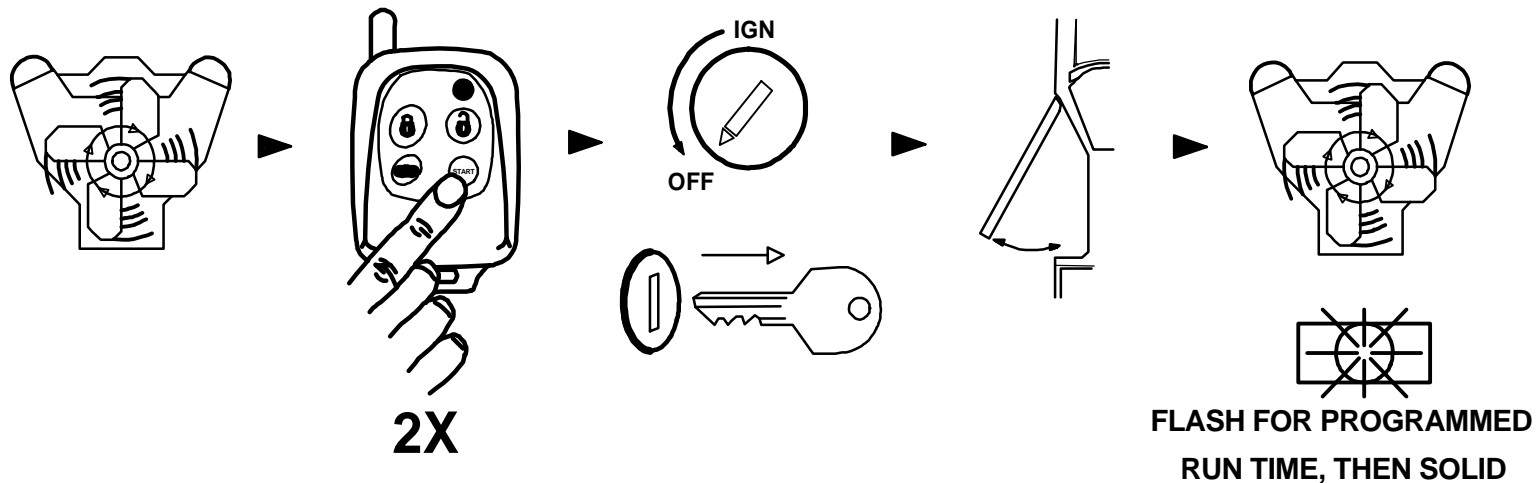
# REMOTE ENGINE CONTROL

## INFINITY RUN MODE (RS900 ER III ONLY)

This mode can only be engaged when "Idle Down" is being engaged. It allows the vehicle engine to remain running *INDEFINITELY* after the programmed run time elapses. This mode will allow the vehicle to be left running and unattended *without* the ignition key in the switch preventing the vehicle from being stolen. This mode can be beneficial to law enforcement, commercial, or work trucks that need to remain running unattended for long periods of time.

## INFINITY RUN MODE – EXITING THE VEHICLE: (NOT AVAILABLE ON RS901)

- 1) Have engine running with the Key, then press the Start button on the transmitter once, pause a few seconds, then press the remote start button a second time.
- 2) Parking Lights will start flashing, and doors will unlock.
- 3) Turn Ignition switch OFF, remove key and exit the vehicle. Engine should remain running.
- 4) The vehicle's parking lights will flash for the programmed run time of 12, 24, or 36, or 48 minutes and then switch to solid while motor runs indefinitely or until fuel supply runs out.



## TIMED SELF START MODE

This mode allows the vehicle to be programmed to self-start every 4 hours and run for the programmed run time. This can be helpful during extremely cold conditions where engine fluid freeze-up is a concern. Be sure that the vehicle is outdoors or in a well ventilated area. Once the timed self-start mode is set, the unit will start every 4 hours and run for the programmed time. To reset this mode either start the vehicle with the key or via remote control.

# REMOTE ENGINE CONTROL

## TIMED SELF-START MODE – EXITING THE VEHICLE:

- 1) Have engine running with the Key, then press the Start button or for RS901: model activate Green start input wire.
- 2) Within 10 seconds press the valet/program button once.
- 3) Parking Lights will turn OFF for about 5 seconds, and doors will unlock.
- 4) Turn Ignition switch OFF, remove key and exit the vehicle. Engine should remain running.
- 5) To turn off the engine, press the remote start button or for RS901 model activate Green Start input wire. The parking lights will flash 4 TIMES as a confirmation that the unit is in Timed Self-Start Mode.
- 6) The Vehicle will Start by itself every 4 hours until driven with key or started via remote control.

## CONVENIENCE AND SAFETY FEATURES

### OEM INTERFACE: (FACTORY UPGRADE)

The RS901 Series III Expansion Module includes a programmable interface feature that allows control of most remote start features through an existing factory remote keyless entry system. The RS901 Expansion module can be installed as an upgrade to a Factory Keyless Entry System. This is referred to in this manual as activating the Green Start input. Pressing a button on the Factory remote 3 times will activate a start. This type of installation is usually connected to the lock circuit in the vehicle, therefore pushing the lock button on the Factory Remote 3 times will produce a remote engine start or turn off a remote started engine.

### PASSIVE STARTER DISABLE:

This RS900/901 Series III includes a programmable feature to allow the Optional Starter Disable to activate automatically 1 minute after the ignition is turned off. This feature may provide insurance discounts or meet insurance requirements in your providence.

### KEYLESS ENTRY (POWER DOOR LOCK CONTROL)

This system enables you to remotely lock and unlock the vehicle's doors (if equipped with power locks) through the transmitter for safety and convenience. This feature may require extra labor and/or parts to install.

### REMOTE LOCK / UNLOCK

- 1) Press the Lock or Unlock transmitter button as you leave or come near the vehicle.
- 2) Parking lights will flash twice for unlock and once for lock. If vehicle is remote started, engine will remain running and lights will flash but return to solid indicating engine is still being controlled by the remote starter.

**NOTES:** Doors lock automatically when vehicle is Remote Started. Starter Disable/Anti-grind is also enabled/disabled with the lock/unlock buttons. If an anti-grind/starter kill relay is installed on a vehicle without power

*door locks, the lock and unlock buttons on the remote control must still be utilized to operate the Starter disable.*

## **CONVENIENCE AND SAFETY FEATURES**

### **REMOTE TRUNK RELEASE (OPTIONAL)**

This feature, if installed, will remotely release a factory electronic trunk or hatch through the transmitter. This feature may require extra labor and/or parts to install. To operate, press Button #3 (Trunk) release button to remotely open trunk or hatch.

### **VALET MODE / STARTER DISABLE OVERRIDE**

Before servicing your vehicle or handing the keys over to a Valet we recommend putting the unit into valet mode. The remote start function WILL NOT operate when in Valet mode. To enter Valet mode, turn the key to the ON position, press and hold Program/Valet switch for 6 seconds. The LED will turn on solid and the system is now in valet. Perform this procedure again to exit of Valet mode. The keyless entry will still function normally while in valet mode. In the event of a lost or broken transmitter, perform this step to override the Starter Disable (If installed).

### **HOOD OPEN SAFETY SWITCH**

Prevents the engine being Remote Started when hood is open and will abort a remote start if running. Eliminates risk of injury to someone working under the hood of the vehicle. If a Remote Start is requested with the hood open, the lights will flash twice, Ignition will not turn on, and the unit will not attempt a start.

### **BRAKE PEDAL RESET CIRCUITRY**

Prevents starting or shuts off a remote started vehicle when this circuit is active or activated. Prevents unauthorized tampering. This circuit shuts the system down immediately when brake pedal is pressed if key is not in ignition and turned to the run position.

### **OEM ALARM INTERFACE**

This feature is designed to Disarm and Re-arm Factory equipped security systems in conjunction with remote start and keyless entry (if needed). This feature will maintain the original integrity and security of your vehicle's factory equipped systems before, during, or after timed out or aborted remote start.

### **ANTI-GRIND / STARTER DISABLE**

Prevents User from accidentally grinding the starter if the Ignition key is turned too far to the start position while engine is already running from the remote starter. Starter circuit is automatically disabled when doors are locked using remote as an added security feature.

### **NOTE:**

In the event of a major malfunction, performing electrical service, or jumpstarting the vehicle you should remove the main Power Fuse(s) to protect the unit from possible damage.

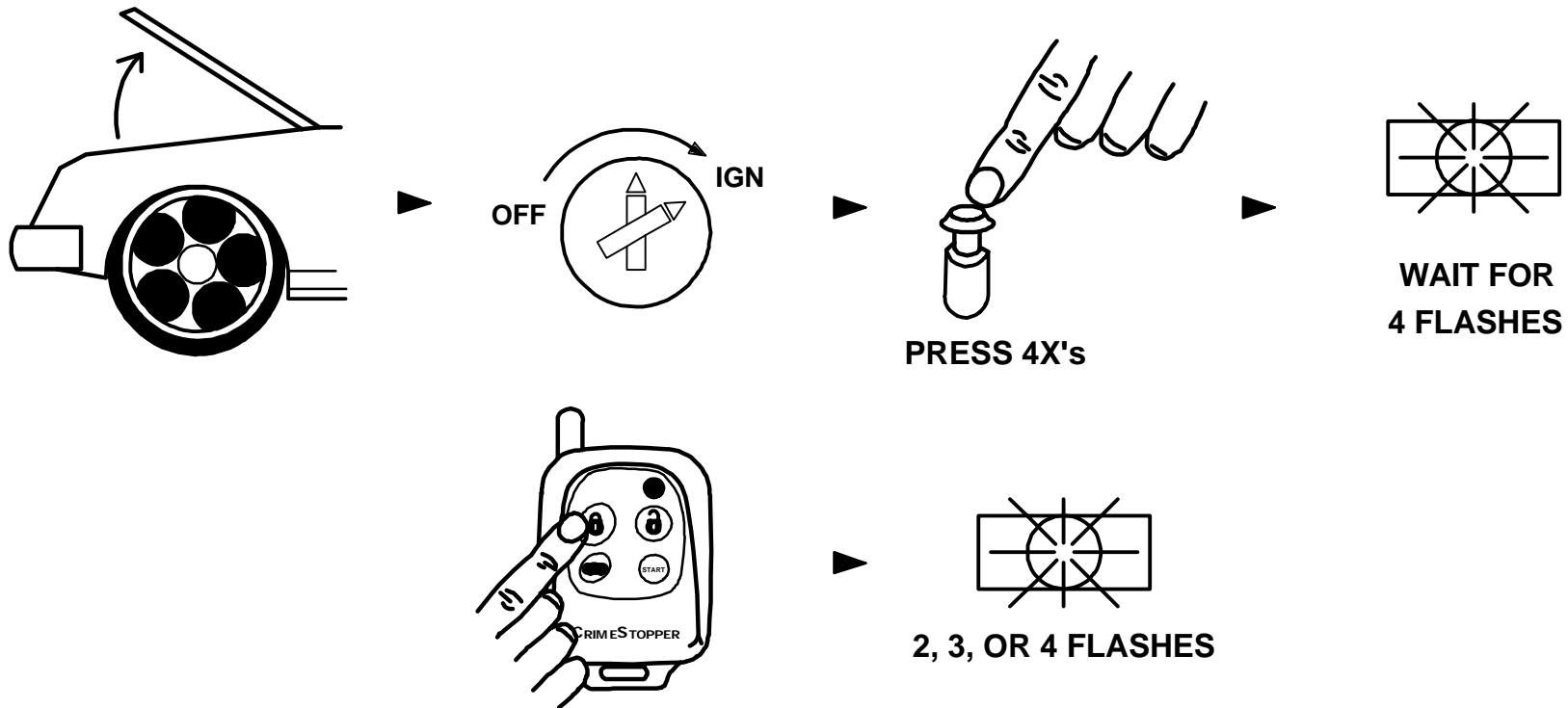
# TRANSMITTER PROGRAMMING

## TRANSMITTER PROGRAMMING:

**Note: All transmitter codes must be learned at time of programming!! The RS900 allows storage of up to 4 different transmitter codes.**

1. Open Hood.
2. Turn key to the ON position. (Doors will lock if Autolock is programmed)
3. Press Programming button 4 times, then after a few seconds the unit flash the parking lights 4 times.
4. Press button #1 of the transmitter to be coded. You should get 2 light flashes indicating the unit is waiting for a 2<sup>nd</sup> code, then press button #1 of a second transmitter, the unit will flash 3 times indicating its waiting for the 3<sup>rd</sup> code and 4 flashes for the 4<sup>th</sup> code. If all 4 codes are learned, the unit will automatically exit code learning mode, otherwise turn key off and close hood.

## TRANSMITTER PROGRAMMING:





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