

8102RECAN000900

By Firstech LLC Version 1.0

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USER'S GUIDE

Applicable to the following remote(s)

NU1500R 1 Way AM Remote

NU START **NU START** **NU START** **NU START**

By Firstech, LLC.

Toll Free : 888-820-3690

21911 68th Ave S
Kent, WA 98032

FCC ID : O44JR5120AMSH

IC ID : 7087A-R5120AM

This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions;

- (1) This device may not cause harmful interference.
- (2) This device may accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

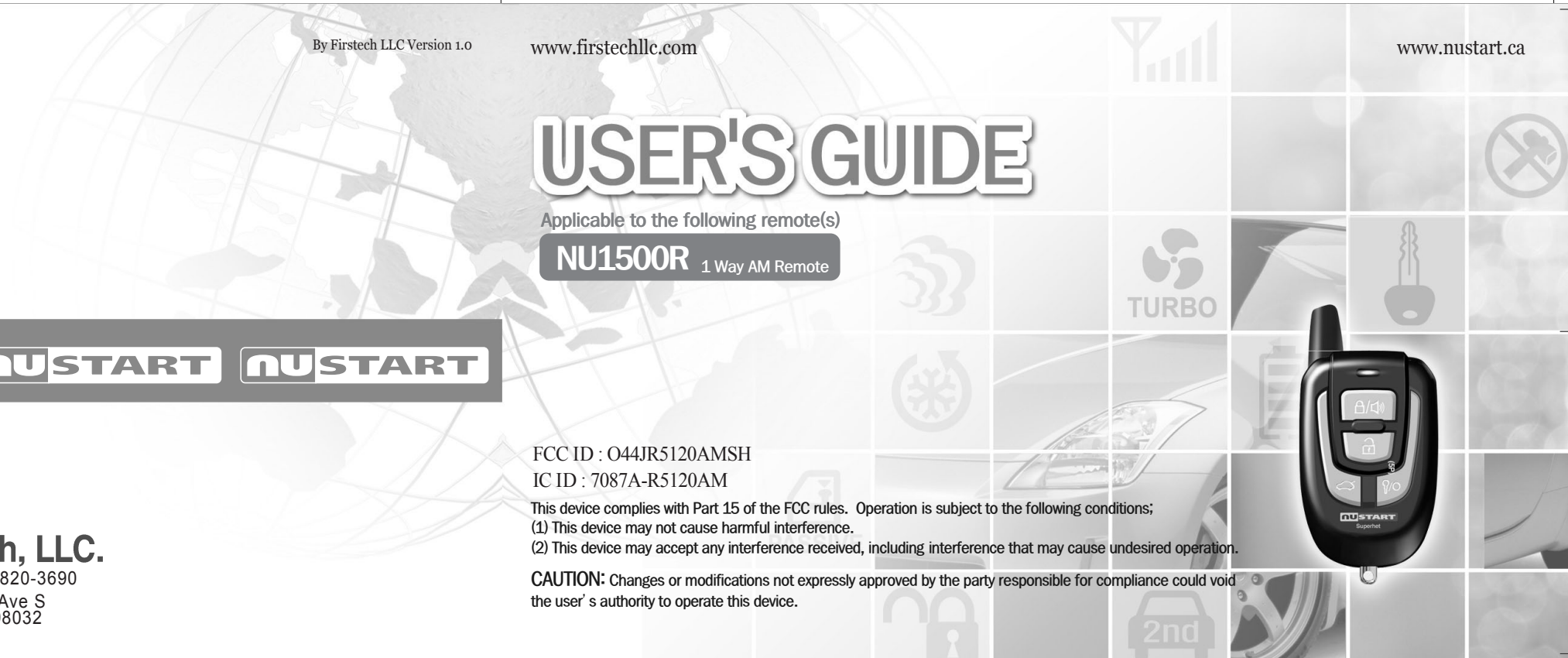


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Quick Reference

Valet Mode

When servicing or loaning your vehicle to others, the NuStart system should be placed in Valet mode. Valet mode prevents the system from remote starting and disables all alarm functions.

IMPORTANT: While in Valet mode the NuStart will still lock and unlock power lock systems.

The system can be put into valet one of three ways;



1. Turn the vehicle's key to the ignition "on" position and tap buttons  simultaneously for 0.5 seconds. The parking lights will flash once and/or siren chirp once to confirm the system is in valet mode. Repeat this process to take the system out of valet mode. The parking lights will flash twice and/or siren chirp once to confirm the system is out of valet mode.

2. If you don't have your remote control, you can put the system into valet by turning the ignition key "on" and then "off" five times within 7 seconds. The parking lights will flash once to confirm the system is in valet mode. Shortly after the first flash, the parking lights will flash twice. A remote control is required to take the system out of valet mode.

IMPORTANT: If your system is set up for a secure valet option, you will not be able to put the system into valet until the proper code has been entered to the secure valet switch.

3. If your system is set up with the secure valet switch (optional), you will not be able to put the system into valet until the proper code has been entered to the secure valet switch. The secure valet switch is the small button with bright blue LED on the front and if installed is the only way to override the alarm and/or remote start. **Until programmed, the default code is (3, 3).**

Quick Reference

Remote Maintenance—Battery Replacement

The only regular maintenance this system requires is remote control battery replacement. No programming is required when replacing the battery.






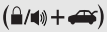
One-Way Remote: Model NU 1500R (US Style)

First, remove the small Phillips screw located on the back of the remote. Once the screw has been removed, gently pull the remote apart taking care to not touch the circuit board. These remotes require two CR2025 batteries. These specialty batteries can be purchased from your local NuStart dealer or an electronics store.

IMPORTANT: Be sure to observe correct polarity when installing the battery



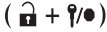

Quick Reference

1Way Remote Button Functions

Button	Duration	Additional Programming Required	Function / Description
	0.5 seconds	no	Locks doors and/or arms alarm.
	3.5 seconds	no	Panic/vehicle locator (flashes vehicle's parking lights and sounds siren and horn)
	0.5 seconds	no	Unlocks doors and/or disarms alarm.
	0.5 seconds	no	Aux 1. Triggers the auxiliary 1 output (most commonly used for rear defrost or window roll-down)
	2.5 seconds	no	Trunk pop. Triggers the trunk release output and opens the vehicle's trunk.
	0.5 seconds	no	Aux 2. Triggers the auxiliary 2 output (most commonly used for rear defrost or window roll-down)
	2.5 seconds	no	Activates the remote start. Repeat and remote start will shut off
	0.5 seconds	no	Turns siren on/off (Note: With the siren off, it will still sound in the event the alarm is triggered)
	2.5 seconds	no	Option programming menu 1 - Installers Only
	0.5 seconds	no	Valet mode (see Valet Mode section for details)
	2.5 seconds	no	Turns the shock sensor on/off. (Alarm or Alarm/Starter systems only)

Quick Reference

1Way Remote Button Functions

Button	Duration	Additional Programming Required	Function / Description
	0.5 seconds	Option 1-9	Drive lock. Activates ignition controlled door locks.
	2.5 seconds	no	Option programming menu 2 - Installers Only
	0.5 seconds	no	Activates passive arming (vehicle will arm/lock 30 seconds after the vehicle is disarmed)
	2.5 seconds	no	Activates 2 nd Car Mode on the P1WSHR (US Style)
	0.5 seconds	Option 2-6	Activates timer start mode. Timer start mode has multiple programmable settings: duration settings, temperature settings and self start settings
	0.5 seconds	Option 2-2	Activates the built-in Turbo timer function. Additional installation is required when using this feature on automatic transmission in vehicle's
	0.5 seconds	Option 2-2	Activates the built-in Turbo timer function. Additional installation is required when using this feature on automatic transmission in vehicle's
	2.5 seconds	no	Car Check (updates vehicle status on remote pager) / Secure Auxiliary

General System Functions




The remote transmitter functions have been predetermined and programmed from the factory. The four button configuration allows for many functions to be performed through a series of tapping, holding and / or multiple presses of buttons. Although NuStart remotes have numerous button functions and capabilities, please keep in mind that the most common functions are performed in one simple step.


Sending Commands

When in range, and a command has been sent, the remote LED will illuminate. For example, to send a remote start command from the remote, hold down the Key/Start button for 2.5 seconds. The remote LED will illuminate and the vehicle's parking lights will flash and/or siren chirp once to show the command has been sent. Once the vehicle has successfully remote started, the vehicle's parking lights will come on solid and/or siren chirp twice.

Active Lock/Arm and Unlock/Disarm




Tap button  for 0.5 seconds to lock/arm and unlock/disarm. The LED will flash on your remote. If your vehicle is locked, tap button  to unlock; if your vehicle is unlocked, tap button  to lock.

IMPORTANT: If the alarm has been triggered (Siren is going off), you must wait up to 5 seconds before disarming the alarm - the first  button tap will shut off the alarm and the second will unlock/disarm the system.

Passive Lock/Arm




The system can be configured to passively lock and arm the vehicle. Put the system in passive by tapping buttons  simultaneously for 0.5 seconds. The vehicle will flash the lights once and/or siren chirp once to indicate the system is in passive lock and arming mode. Tap the same buttons again to turn passive mode off. The parking lights will flash twice and/or siren chirp twice to show it is off.

While in passive mode, the system will lock and arm the alarm 30 seconds after the last door is closed. As an indicator that the vehicle is going to passively lock and arm, the remote and siren will chirp once and the parking lights will flash once at both 10 and 20 seconds prior to passively locking and arming. If you want the system to passively arm and not passively lock, ask your local NuStart dealer to turn *Option 1-8 to setting II*.

General System Functions

Automatic Transmission Remote start Function

Press the  button for 2.5 seconds to remote start an automatic transmission vehicle. If you are in range and if the vehicle is ready to remote start, the parking lights will flash once and/or siren chirp once to indicate that the remote start command has been successfully transmitted.



If you are in range and the parking lights flash and/or vehicle's siren chirps three times, there is a remote start error. Refer to the "remote start error diagnostic" at the end of this manual for details.

The remote start run time can be programmed for 3, 15, 25, or 45 minutes - ask your local NuStart dealer to adjust Option 2-7 if you would like a run time other than 15 minutes (default).

IMPORTANT: Your vehicle's key must be inserted into the ignition and turned to the "on" position prior to driving your vehicle. If the foot brake is depressed prior to the key being in the "on" position, the vehicle will shut off.

General System Functions

Manual Transmission Remote Start Function (Reservation Mode)

In order to remote start a manual transmission vehicle, the system must first be set in Reservation Mode. Reservation Mode must be set each and every time you want to remote start a manual transmission vehicle. The purpose of Reservation Mode is to leave the transmission in neutral before exiting the vehicle.

IMPORTANT

- The transmission must be left in the neutral position.
- The vehicle's windows must be rolled up.
- The vehicle's door pins must be in working order.
- Do not set reservation mode or remote start with people in the vehicle.
- Do not install this remote start on a manual transmission vehicle that has a convertible or removable top.

Activating Reservation Mode

STEP 1: While the vehicle is running, place the transmission in neutral, set the emergency / parking brake, and remove pressure from the foot brake.

STEP 2: Remove the key from the vehicle's ignition. The vehicle's engine should remain running even after the key has been removed. If the vehicle does not remain running make sure your system is not in Valet mode and then contact your local authorized NuStart dealer for service.

STEP 3: Exit the vehicle and close the door. The vehicle's engine should shut off within 10 seconds upon closing the last door. Most motors will shut off instantly upon closing the last door. If the vehicle's engine does not shut off, your door trigger may be functioning improperly. Do not use the remote start feature and take your vehicle to a local authorized NuStart dealer for service.

IMPORTANT: By default, the system will lock/arm the vehicle upon setting reservation mode. Take care to not lock your keys inside the vehicle.

General System Functions

Canceling Reservation Mode

Reservation mode will be cancelled for the following reasons;

- You did not activate the parking brake prior to turning off the ignition.
- You pressed the foot brake after the key was removed from the ignition.
- You released the parking brake after the key was removed from the ignition.
- You entered valet mode, opened the vehicles door, hood, or trunk.

Reservation Mode Settings

Reservation mode settings can be changed. It is recommended that reservation mode settings are programmed by your local authorized NuStart dealer.

Default : Locks doors when reservation mode is set.


Option2 : Does not lock doors when reservation mode is set.

Option3 : Reservation mode sets 10 seconds after the last door is closed, as opposed to immediately.

This option will allow you to access the vehicle's rear doors, trunk or hatch prior to the system setting reservation and passively locking/arming.

Trunk Release



Hold button  for 2.5 seconds to release the trunk or hatch. If you are in range, the vehicle's parking lights will flash once and/or siren chirp once indicating that the trunk release command has been successfully transmitted.

IMPORTANT : Trunk release is an optional vehicle feature that may require additional parts and labor.



General System Functions

Auxiliary Outputs / Window Roll-Down / Sliding Doors

Your system is equipped with two additional outputs that can be configured to control windows, open power sliding doors, open a power sliding moon roof, or even turn on a rear defroster. These outputs can be configured for pulsed, timed or latched settings. Your authorized NuStart dealer can set these outputs up accordingly. Using auxiliary outputs to control additional vehicle functions will require additional parts and can be rather labor extensive.






Tap button  for 0.5 seconds to trigger auxiliary output 1. Tap button  for 0.5 seconds to trigger auxiliary output 2. The vehicle's parking lights will flash once and/or siren chirp once indicating that the auxiliary outputs have been triggered.

By default, the system is in secure auxiliary mode, which requires you to hold buttons  +  for 2.5 seconds prior to triggering auxiliary 1 or 2. To turn off secure auxiliary, ask your authorized NuStart dealer to turn on *Option 4-5 to setting II*.

Silent Arm / Disarm



Upon lock/arm and unlock/disarm, you can eliminate vehicle's audible confirmation by muting the siren. Normally, the siren will chirp once to indicate the system is locked/armed and twice to indicate the system is unlocked/disarmed. To mute the siren tap buttons  +  +  simultaneously for 0.5 seconds.

IMPORTANT: Even when the siren is muted, it will still go off in the event the alarm is triggered.

General System Functions

Shock Sensor On/Off



Hold buttons (🔒/🔊) + 🚗 simultaneously for 2.5 seconds to turn the shock sensor on and off. The vehicle's parking lights will flash once and/or siren chirp once to confirm the shock sensor is off. The vehicle's parking lights will flash twice and/or siren chirp twice to confirm the shock sensor is on.

IMPORTANT: Turning off the shock sensor also turns off the optional sensor(s).

Adjusting the shock sensor sensitivity is done at the actual sensor, which is generally mounted somewhere under the vehicle's dashboard. The higher the number on the dial means greater sensitivity to impact. The recommended dial setting for most vehicle's is somewhere between 2 & 4. If you are testing your sensor, please note that the shock sensor does not recognize impact for 30 seconds after the system has been armed.

Advanced System Functions

The following section reviews advanced system functions. Many of these functions require multiple steps or additional programming by your local authorized NuStart dealer to be active.

Drive Lock / Ignition Controlled Door Locks

DRIVE LOCK

Tap buttons (🔒/🔊) + 🚗 simultaneously for 0.5 seconds to turn drive lock on and off (also known as ignition controlled door locks). The vehicle's parking lights will flash once and/or siren chirp once to confirm drive lock is off. The vehicle's parking lights will flash twice and/or siren chirp twice to confirm drive lock is on.

IMPORTANT: Drive lock mode requires that the dealer turn on Option 1-9. Drive lock has two settings;

Default 1: Off

Option 2: Locks the doors when the ignition is on and after the brake is depressed.



Option 3: locks the doors when the RPM's have reached two times that of idle speed (this setting requires that a tachometer wire is connected).

With both settings, the doors will unlock when the ignition is turned off. If using this feature on a manual transmission vehicle, the doors will unlock upon setting the emergency / parking brake.

Advanced System Functions

Turbo Timer Mode





The built in turbo timer keeps the vehicle's engine running for either 1, 2, or 4 minutes (programmable from dealer with Option 2-2) after the vehicle key has been removed from the ignition. This feature will keep oil running through the turbo system to allow for appropriate cooling time. Tap buttons ( + ) simultaneously for 0.5 seconds to turn on or off turbo mode. The vehicle's parking lights will flash once and/or siren chirp once to confirm turbo mode is on. The vehicle's parking lights will flash twice and/or siren chirp twice to confirm turbo mode is off.

IMPORTANT: To utilize this feature, the emergency / parking brake wire must be connected to the NuStart system. Consult your local authorized NuStart dealer for installation.

Timer Start Mode



Timer start mode is used to cool or warm the vehicle without manually starting with the key or from the NuStart remote. While engaged, timer start will activate even while the remote is out of range. Tap buttons ( + ) simultaneously for 0.5 seconds to activate timer start mode. Timer start mode will be cancelled any time the vehicle is started manually or remotely. To change from the default setting to optional settings, see your local NuStart dealer.

Default 1: Will start every 3 hours for a 24 hour cycle, or until the vehicle is remote started or started by key, and run for 4 minutes (8 minutes for diesel).

Option 2: Will start every 1.5 hours for a 24 hour cycle, or until the vehicle is remote started or started by key, and run for 4 minutes (8 minutes for diesel).

Advanced System Functions

Secure Valet Switch

The optional Secure Valet Switch prevents the alarm from being put into valet mode through cycling the ignition on/off five times. The Secure Valet Switch is more secure than traditional toggle / valet switches because it requires a two digit code. **IMPORTANT:** The first two digits of the RPS unlock/disarm pass code will be the default pass code for the secure valet - you do not need to program them independently. If you are not using the RPS unlock, following the below procedures to program your secure valet pass code;

STEP 1: Turn on Option 3-10-III. (Dealer programmed option)

STEP 2: Turn ignition key to the "on" position.


STEP 3: Hold down the valet switch for 1.5 seconds. The LED on the valet switch will begin to flash rapidly with successful completion of this step.

STEP 4: Enter the first digit of the desired two digit pass code by depressing the switch the number of times that coordinates with the desired first number. For example, to enter 3, depress the switch 3 times, then wait.

STEP 5: The LED will confirm the first number by flashing BLUE slowly. Once the LED begins to flash rapidly, enter your second number by repeating step 4.

STEP 6: Turn the ignition off - the Secure Valet Switch is now programmed. Follow steps 3 - 5 to enter your Secure Valet code.

ANTI Grind / Starter Kill

The NuStart systems have a built in mode that would require you to keep your remote separate from your key chain. This feature also requires additional labor. Please consult your installer for more details. The Anti Jacking mode allows you to safely disable your vehicle once a thief has driven off with your property. If you are car jacked and still have your remote, you can panic the system by holding button  down for 4 seconds. The siren will sound for 30 seconds and the motor of the vehicle will shut down.

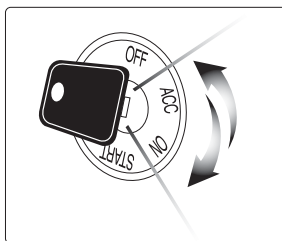
Remote Coding / Programming Routine (S)

IMPORTANT: Every NuStart remote must be coded to the system prior to performing any operations. All remotes must be coded at the same time.

Programming Your Remotes

STEP 1: Activate Valet/Programming mode by manually turning the ignition key on and off (between the Acc & On positions) five times within 7 seconds. The vehicle's parking lights will flash once with the successful completion of this step.

STEP 2: Within a 2 second period after cycling the ignition for the 5th time, press button (I) on **two way remotes** or the Lock button on **one way remotes** for 0.5 seconds. The parking lights will flash once to confirm the transmitter has been coded.



Exiting Programming: Programming is a timed sequence. The parking lights will flash twice signaling the end of programming mode.

Programming Multiple Remotes: After the confirmation flash given in step 2, code additional remotes by pressing button (I) on **two way remotes** or the Lock button on **one way remotes**. The parking lights will flash once confirming each additional remote. All systems can recognize up to three remotes.

Remote Start Error Diagnostic

If the remote start fails to start the vehicle, the parking lights will flash three times immediately. Following those three flashes the parking lights will flash again corresponding to the error table.

Number of Parking Light Flashes	Remote Start Error
1	Motor running
2	Key in ignition on position
3	Door open (manual transmission only)
4	Trunk open
5	Foot brake on
6	Hood open
7	Reservation off (manual transmission only)
8	Tach or voltage sensing failure

We recommend that you do not attempt any repairs on your remote starter. Contact your dealer or call us directly.

Alarm Diagnostic

While the alarm is armed, the LED will blink slowly. While the siren is going off, the LED will indicate the specific zone that was triggered.

Priority	Situation	LED On Duty
1	Door/Hood/Trunk/Key Triggered	2 flash, rest, then repeat
2	2 nd Shock Triggered	3 flash, rest, then repeat
3	Optional Sensor Triggered	4 flash, rest, then repeat
4	PANIC	5 flash, rest, then repeat

Upon disarming the alarm after it has been triggered, the amount of siren chirps will indicate the specific zone.

# of Chirps	Situation
4	Option Sensor Triggered
5	2 nd Shock Triggered
6	Door/Hood/Trunk/Key Triggered

Limited Lifetime Warranty

Firstech, LLC Warrants to the original purchaser that this product shall be free of defects in material and workmanship under normal use and circumstances for the period of time that the original owner of this product owns the vehicle in which it is installed; except that the remote controller unit for the period of one year from the date of installation to the original owner of this product. When the original purchaser returns the product to the retail store where it was purchased or prepaid postal to Firstech, LLC., **21911 68th Avenue South, Kent, WA 98032**, USA within the warranty period, and if the product is defective, Firstech, LLC, will at its option repair or replace such.

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Your Warranty

The product's warranty is automatically void if the date code or serial number is defaced, missing or altered. This warranty will not be valid unless you have completed the registration card at www.compuSTAR.com within 10 days of purchase.

