

8102RECAN001000

By Firstech LLC Version 1.0

www.firstechllc.com

www.nustart.ca

USER'S GUIDE

Applicable to the following remote(s)

NU4500R

NUSTART NUSTART NUSTART NUSTART

By Firstech, LLC.

Toll Free : 888-820-3690
21911 68th Ave S
Kent, WA 98032

FCC ID : VA5JR702F433 / IC ID : 7087A-R702F433

Statement : The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

Caution : The User that modifications to the unit may void the user's authority to operate the unit.

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



Table Of Contents

● Safety Information	3	● Timer Start Mode	15
● Remote-Pager : Nu4500R/LCD	4	● Safety Shutdown Features	16
NUSTARTGLO color LCD (Liquid Crystal Display)	4	● RPS (Remote Paging System)	16
● Remote-Pager Button Functions	7	● Optional Programmable Features	17
● Remote-Pager Learn Routine	8	<i>Ignition Lock</i>	17
● Alarm Mode	9	<i>Auto Arming</i>	17
● Dual Stage Shock Sensor	10	<i>Passive Arming</i>	18
● Auto-start Function	11	<i>Turbo Mode</i>	18
● Reservation Mode	12	<i>2nd Car Mode</i>	18
● Canceling Reservation Mode	13	● Optional Installation Features	19
● Trunk Release	14	<i>Cold Start Mode</i>	19
● Query Function	14	<i>Optional Auxiliary 1 & Auxiliary 2.</i>	19
● Panic Mode	14	● Limited Lifetime Consumer Warranty	20
● Valet Mode	15		

Safely Information

Please take these safety precautions under the following conditions:

1. Servicing the vehicle

When servicing (i.e. changing the oil, washing your car) your automobile, the NUSTART system should be in Valet Mode. There is a safety shutdown switch under the hood that deactivates the remote starter function if the hood is open. However, if the switch has been damaged or the switch has been installed improperly, the vehicle may start when Button II is pressed for 2 seconds even if the hood is open.

2. Loaning your vehicle to others

Whenever you loan your vehicle to an individual who is not familiar with NUSTART, please put the vehicle in Valet mode. This will prevent the vehicle loaner from accidentally activating the NUSTART auto-security system.

3. For manual transmission vehicles

If the NUSTART Nu4000R, Nu4000R-2nd is installed in a manual transmission vehicle, extra precautions are required because the NUSTART does not monitor the gear shift :

Important! Under normal circumstances, Reservation Mode is cancelled when a door or hatchback opens. Please verify if the opening of any door or hatchback cancels Reservation Mode. If any of the doors or hatchback is not monitored by NUSTART because of improper installation or a faulty dome light switch, do not use the NUSTART and take your vehicle to the dealer immediately for repair. Do not set Reservation Mode when the window(s) are open or if there is anyone inside of the vehicle including animals.








Remote-Pager : Nu4500 / LCD






The model name, Nu4500R is a **Two Way Frequency Modulation Remote with Liquid Crystal Display**. This transmitter that allows you to activate multiple functions by pressing a combination of 4 buttons on the unit in order to transmit signals.

NUSTARTGLO color LCD

The remote-pager comes with NUSTARTGLO which is a unique color LCD display that visually tells the vehicle owner the security status of your car at all times. There are differing icons that will appear on your NUSTATGLO LCD indicating what your vehicle is currently doing.



Icon	Explanation
Auto	Indicates that the Auto Arm/ Disarm Mode is on.
Turbo	Indicates that Turbo Mode is on.
2 nd	Indicates that 2 nd Vehicle Mode is on.
Timer	Indicates that Timer Start Mode is on.
Passive	Indicates that Passive Arming Mode is on.
	Indicates that the first or second stage of the shock sensor has been triggered
	Indicates that you are in Valet Mode.
	Indicates that your parking lights are flashing.
	Indicates that your siren is turned on for locking or unlocking the vehicle.
	Indicates that someone is paging you from your vehicle.
	Indicates if your car is armed or disarmed.
	Indicates if your remote-pager is transmitting signals to the controller unit.

Icon	Explanation
	Displays remaining battery life.
	Displays run time left - each bar represents 25% of the running time.
	Indicates that your door is open.
	Indicates if your vehicle has auto-started properly or ignition on.
	Indicates that your trunk is open.

Remote-Pager Button Functions

	Button(s)	Duration	Function
1	I	1/2 sec	Alarm Mode - on/off, RPS - on/off, Siren Off, Starter Kill (Anti-Grind) -on/off
2	II	1/2 sec	Auxiliary Option 1
3	III	1/2 sec	Auxiliary Option 2
4	IV	1/2 sec	Query Function
5	I -	2 sec	Auto Lock - on/off
6	II -	2 sec	Auto-start Function - on/off
7	III-	2 sec	Trunk Release
8	IV-	2 sec	Panic, Press I to shut off Siren.
9	(I + II)	1/2 sec	Siren Chirps for Lock/Unlock-on/off
10	(I + III)	1/2 sec	Valet Mode - on/off
11	(II + III)	1/2 sec	Passive Arming - on/off
12	(II + IV)	1/2 sec	Timer Start Mode - on/off
13	(III + IV)	1/2 sec	Turbo Mode - on/off
14	(I + III)-	2 sec	Shock Sensor - on/off
15	(I + II)-	2 sec	Programming Menu 1 - Installer Only
16	(I + IV)-	2 sec	Programming Menu 2 - Installer Only

Note: "—" Represents pressing the button for 2 seconds.

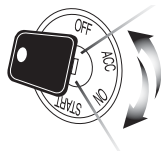
"()" Represents simultaneously pressing the buttons.

"()—" Represents simultaneously pressing the buttons for 2 seconds.

Remote-Pager Learn Routine

If you replace or add additional remotes, you can program up to three remotes, please perform the following procedure:

Step1 : Activate Valet/Programming mode by manually turning the ignition on and off five times (between Acc and On) with car key within a 10 second period. The parking light will flash once with successful completion of this step.



Step2 : Within a 10 second period after cycling the ignition for the 5th time, press button I. The car parking lights will flash once to confirm that the transmitter has been programmed. Continue program the additional remotes. The parking lights will flash two times when the programming mode is expired.

Alarm Mode

You can arm or disarm alarm mode by pressing Button I for a 1/2 second. Press Buttons (I+II) for a 1/2second to make your car siren mute when arming or disarming your vehicle. Keep in mind that your car siren will still activate for all other modes (i.e. panic, alarm, shock sensor) regardless of whether or not your car siren is in mute mode. The car siren will be mute only when arming or disarming your vehicle. In alarm mode, the starter kill function (this maybe an optional feature provided by your installer) is activated. This feature disengages the starter mechanism on your car that prevents you from starting your car even with a manual key when your vehicle s alarm mode is activated.

Note : If you lose your remote after you have armed the vehicle, use your key to open the vehicle. The siren will go off. Turn on and off ignition 5 times with your key to shut off the siren and turn the system into valet mode. Cancel the valet mode with remote later. See Valet mode.

Note : (Siren duration is 30 to 60 sec depending on the options set at the time of initial installation.)

Dual Stage Shock Sensor

Press Buttons (I+III) for 2 seconds to activate or deactivate the dual stage shock sensor. The dual stage shock sensor will activate in 30 seconds after the CompuStar alarm mode is armed. When the dual shock sensor is engaged, the remote-pager security alerts will be triggered by the following:

- ▶ Light impact to your vehicle will activate the first stage shock sensor and the car siren will chirp 4 times in addition to the parking lights flashing 4 times. The remote pager unit will beep and the hammer icon shows up a couple of times
- ▶ Heavy impact to your vehicle will activate the second stage shock sensor and the car siren will chirp for 30 to 60 seconds and the parking lights will flash for 30 to 60 seconds. The remote-pager will be notified audibly and a hammer icon will blink in the CompuGLO LCD. Press Button I for a 1/2 second to turn off the second stage shock sensor sirens and flashing lights.

Auto-Start Function

Press Button II for 2 seconds to auto-start an automatic transmission engine. Remember that a manual key in the ignition is required to drive the car. In addition, the anti-grind circuit (this maybe an optional feature provided by your installer) prevents you from re-cranking the starter on a remote-started vehicle.

Press Button II for 2 seconds in order to turn off an auto-started car. For manual transmission vehicles, please use reservation mode. The engine will run 15 or 25 minutes (25 or 40 min for diesel) depending on preset options at the time of installation and then shut off. If your remote-pager has a problem starting the vehicle, NUSTART will try 2 additional times. If the engine does not start after the third attempt, please call your authorized NUSTART dealer.

Flashing Battery icon during remote start. The battery icon flashes while engine running . Each of the 4 bars of the battery indicates 25% of the remaining engine running time.

Continuation Mode (Automatic transmission only)

While your vehicle is running with your key, if you press button II for 2 seconds, you are now in the continuation mode. Your engine will continue running for the preset time even if you take your key from the ignition. This is for your quick stop at, for example, a grocery store.

Diagnosing problems with Auto-Start

If there is a problem in auto-starting your car, you will hear three chirps when you attempt to auto-start the car. Wait for 2 seconds and the cause for the error will be indicated by the number of times parking lights flash.

Error Number (# of times parking lights flash)	Error Reason
1	Engine On
2	Key On
3	Door Open
4	Trunk Open
5	Brake On
6	Hood Open
7	Reservation Off (Manual Transmission Only)

Reservation Mode (manual transmission only)

In order to auto-start your manual transmission car, you must first set the NUSTART system to Reservation Mode before leaving your vehicle. The purpose of Reservation Mode is to leave the transmission gear in the neutral position when you leave your vehicle. Reservation mode is intended for use in MANUAL TRANSMISSIONS ONLY and NOT FOR AUTOMATIC TRANSMISSIONS.

Reservation Mode must be engaged each and every time you leave your manual transmission car in order to auto-start the vehicle.

Note: The system is not recommended for vehicles with removable tops.

Important Requirements to activate Reservation Mode

- The transmission must be in the NEUTRAL position.
- The vehicle windows must be rolled up.
- Do not set the reservation mode with people in the vehicle.
- Do not auto-start the car with people in the vehicle.

Activating Reservation Mode (Manual Transmission only)

Step1 : After arriving at your destination, and BEFORE TURNING YOUR ENGINE OFF, place the transmission in the Neutral position.

Step2 : Activate the parking brake.

Step3 : Remove your foot from the foot brake.

Step4 : Remove the key from the ignition. The engine will remain running.

Step5 : Exit the vehicle and close the door within two minutes after activating the parking brake. The engine will shut off and reservation mode for the remote starter is now complete.

Your vehicle is now ready for auto-starting. However, the reservation mode will be cancelled if the door is opened or the NUSTART system is put in Valet mode after the reservation has been set. Once cancelled, you will have to start the vehicle with the manual key and repeat the above 5 steps if you want to restore reservation mode.

Important! If you try to auto-start the vehicle when reservation mode has not been set or turned on, the auto-start feature will not work. When you press the auto-start button, the remote beeps three times, the car parking lights will flash three times and the siren chirps three times. A couple of seconds later, the cause for the error will be indicated by the number of times parking lights flash. See Page 11 for error messages.

Canceling Reservation Mode

If you do not want to set reservation mode, shut off the engine before you exit the vehicle. The engine will shut off for the following reasons:

- You did not activate the parking brake or press the foot brake when you turned the manual key to the off position.
- You released the parking brake while the engine was running.
- You entered Valet Mode after the Reservation Mode has been completed.

Error Messages

If there is a problem in auto-starting your car, you will hear three chirps when you attempt to auto-start the car. Wait for 2 seconds and the cause for the error will be indicated by the number of times parking lights flash.

Error Number (# of times parking lights flash)	Error Reason
1	Engine On
2	Key On
3	Door Open
4	Trunk Open
5	Brake On
6	Hood Open
7	Reservation Off (Manual Transmission Only)

Trunk Release

Press Button III for 2 seconds in order to unlock and release your trunk door. Note that the trunk release function will not only release the trunk but will unlock all the doors as well.

Query Function

Query Function allows the owner to visually monitor the status of your car by looking at the remote-pager NUSTARTGLO LCD icons. Press Button IV for a 1/2 second to activate the Query Function.

Panic Mode

Press Button IV for 2 seconds to enter Panic Mode. In this mode, the car will arm if not armed already and the siren will activate and the parking lights will flash. In order to disengage Panic Mode, press Button I for 1/2 second. Then, press Button I for a 1/2 second to unlock/disarm your vehicle.

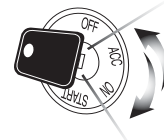
If Anti-Jacking option has been programmed (ask your dealer if you like to have this option) and the Ignition-Kill has been installed, the Panic Mode works as Anti-Jacking if the car key is in the ignition. In Anti-Jacking mode is activated while key is in the ignition,

a) Siren will go off for 1.5 minutes, and b) Ignition-Kill will be activated after the first 30 seconds. That is to give warning to the hijacker for the first 30 seconds and then to disconnect the ignition to stop the vehicle

Valet Mode

The only feature operating in valet mode is the keyless entry function and optional auxiliary functions. Valet Mode is very useful when loaning your vehicle or having it serviced.

In order to enter Valet mode, press Buttons (I+III) simultaneously for a 1/2 second while the ignition is on. In order to manually enter Valet Mode, insert your car key into the ignition and turn the ignition on and off (between ACC and ON) five times within 10 seconds.



You can exit Valet Mode only by pressing Buttons (I+III) simultaneously for a 1/2 second.

Timer Start Mode

In Timer Start Mode, your car automatically starts every 1.5 or 3.0 hours depending on preset options during the time of installation for a 24-hour period. This mode is deleted automatically after 24 hours or once you start your car with either your manual key or remote-pager. In order to enter Timer Start Mode, press Buttons (II+IV) simultaneously for a 1/2 second.

Also, note that Timer Start Mode becomes *Cold Start Mode* once an optional temperature sensor is installed.

Important!

Timer Start Mode should be used only in open areas. Never start and run the vehicle in an enclosed space such as a garage or carport.

Safety shut Down Features

NUSTART Nu4500R system has several shut down safety features. The following actions will shut down the engine or prevent the car from auto-starting:
Opening of the car engine hood, Pressing of the brake or Valet mode is turned on.

RPS (Remote Paging System)

The optional RPS is a feature that allows an individual to page the owner of a vehicle by simply tapping on the front windshield of the car. RPS is automatically turned on upon activating alarm mode (pressing Button I for a 1/2 second) on the NUSTART Nu4500R. The RPS module can be activated by tapping a manual key producing a high-frequency vibration. This high-frequency vibration is detected and your remote-pager will beep and a telephone icon will appear on the NUSTARTGLO LCD indicating that someone is paging you from your vehicle. Press Button I, II, III or IV for a 1/2 second to deactivate the RPS visual and audible paging alerts.

OPTIONAL PROGRAMMABLE FEATURES

These additional programmable features can be programmed to the NUSTART system by your authorized NUSTART dealer.

Ignition Lock

This programmable option enables your vehicle to automatically lock the doors upon pressing the brake pedal and releasing the E-brake after the vehicle has been started with a key. In addition, the vehicle will automatically unlock the doors upon pulling the key out from the ignition. This option must be chosen at the time of installation.

Auto Arming

You can turn this function on or off by pressing Button I for 2 seconds. When set to Auto arming, your security system will arm automatically after all the car doors are closed, your remote is away from the vehicle by more than 50 to 100 ft and 15 seconds have passed since the last Auto Disarm. Your system will disarm automatically if your remote comes within 50 to 100 ft radius from the vehicle. You have an option for Auto Arming without Auto Lock by option programming. Consult your installer for this programming. Please read the next paragraph for the interaction between Auto Arming and Passive Arming.

Passive Arming

You can turn this function on or off by pressing Buttons (II+III) for a 1/2 second. When set to passive arming, your security system will arm automatically 30 seconds after all the car doors are closed. There are two types of passive arming that can be programmed by your NUSTART dealership: (1) passive arming with passive lock and (2) passive arming with active lock. Passive locking means the door will lock when the system passively arms. In the default factory setting, the system is armed and locked actively, which means the system will only arm/lock when the remote-pager is utilized.

Note: 1. If you select both Auto Arming and Passive Arming, Auto Arming takes priority over Passive Arming.

Turbo Mode

If this optional Turbo Mode has been programmed at the time of installation,

you can turn this feature on and off by pressing Buttons (III+IV) for a 1/2 second. Under this mode, engine continues running for 2 minutes after key has been taken out from the ignition if emergency brake was on when the key is taken out.

To utilize this mode, the emergency brake sensing wire has to be connected to the emergency brake wire of the vehicle. Consult the authorized dealer for this mode.

2nd Car Mode

The Remote-Pager is able to operate 2nd vehicle.

Press buttons III&IV simultaneously for 1/2 second. If this mode is turned to 2nd Car, the Remote-Pager will not communicate with the 1st vehicle. To Exit 2nd Car press button III&IV simultaneously again. (Consult your Authorized Dealer)

OPTIONAL INSTALLATION FEATURES

The NUSTART Nu4500R remote-pager has additional features and expansion possibilities that require additional parts and labor.

Cold Start Mode

If the optional temperature sensor has been installed, Timer Start Mode becomes Cold Start Mode, Under this mode, your car automatically starts if the temperature of the inside of the vehicle goes below the preset temperature.

The minimum interval between the starts will be 1.5 or 3.0 hours depending on preset options during the time of installation. Cold Start Mode is activated or deactivated by pressing Buttons (II+IV) for a 1/2 second.

Garantie limitée à vie

Staub Electronics, Ltd. 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 Staub Electronics, Ltd., #160 - 11791 Hammersmith Way, Richmond, BC V7A 5C6 Staub Electronics, Ltd. will at its option repair or replace such.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ANY AND ALL WARRANTIES ARE EXCLUDED BY THE MANUFACTURER AND EACH ENTITY PARTICIPATING IN THE STREAM OF COMMERCE THEREWITH. THIS EXCLUSION INCLUDES BUT IS NOT LIMITED TO, THE EXCLUSION OF ANY AND ALL WARRANTY OF MERCHANTABILITY AND/OR ANY AND ALL WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY AND ALL WARRANTY OF NON-INFRINGEMENT OR PATENTS, IN THE UNITED STATES OF AMERICA AND/OR ABROAD.

NEITHER THE MANUFACTURER OF ANY ENTITIES CONNECTED THEREWITH SHALL BE RESPONSIBLE OR LIABLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE AS DESCRIBED ABOVE.

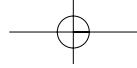
Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages.

This warranty gives you specific legal rights, and you may also have other rights, which vary State to State.

Staub Electronics, Ltd. is not RESPONSIBLE OR LIABLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE that may or may not resulted from the operation of NUSTART. NOT WITH STANDING THE ABOVE, MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE AS DESCRIBED ABOVE.

Your warranty

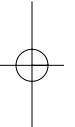
The product's warranty is automatically void if its date code or serial number is defaced, missing, or altered. This warranty will not be valid unless you have completed the registration card and mailed it to Staub Electronics, Ltd., within 10 days after the purchase to the address listed on the registration card.



Notes



Lined area for taking notes on page 22, consisting of 15 horizontal lines.



Notes



Lined area for taking notes on page 23, consisting of 15 horizontal lines.

