



User Manual

By Firstech LLC, Version: 1.0

Applicable to the following remote(s);
2WR5-SF 2Way 1Button LED Remote



Model Name	FCC ID	IC Number
2WR5R-SF	VA5REK500-2WLR	7087A-2WREK500LR
ANT-2WSF	VA5ANH500-2WLF	7087A-2WANH500LF

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WARNING

It is the responsibility of the vehicle operator to ensure that their vehicle is parked in a safe and responsible manner.

- (1) When leaving the vehicle, it is the user's responsibility to ensure that the gearshift lever is in "Park" in order to avoid accidents upon remote starting. (Note: Make sure that the automatic vehicle cannot start in "Drive".)
- (2) It is the user's responsibility to ensure that the remote starter is disabled or put into valet mode before servicing.

FCC COMPLIANCE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must 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.

IC COMPLIANCE

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

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

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation Exposure Statement

This device complies with FCC radiation exposure limit set forth for an uncontrolled environment.

For ANT-2WSF: This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

RF Specification

2WR5R-SF : 907 MHz ~ 919 MHz (7CH) DSSS

ANT-2WSF : 907 MHz ~ 919 MHz (7CH) DSSS / 125 kHz LF transmitter

Introduction

Thank you for purchasing a Firstech system for your vehicle. Please take a minute to review this entire manual. Note that this manual applies to the 2 Way 1 Button Remotes whether you purchased the ALARM IT, START IT, or MAX IT system. This manual also supports the 1 Way Remote that is included with your RF Kit. There are certain features listed in this manual that may not be available for your system. There may also be features listed in this manual that require additional installation or programming before they are active.

If you have any questions or concerns please contact the original place of purchase. For further information you may also contact our customer support center at 888-820-3690

Warranty Coverage

Caution: The Manufacturer's warranty will be voided if this product is installed by anyone other than an Authorized Firstech dealer. For complete warranty details visit www.compustar.com or the last page of this manual. Firstech remotes carry a 1 year warranty from original date of purchase. Compustar Pro 2WR5-SF remote carries a 3 year warranty.

Warranty registration can be completed online by visiting www.compustar.com. Please complete the registration form within 10 days of purchase. We do not include a mail in warranty registration card with each unit – registration must be done online. To verify that an authorized dealer installed your system, we highly recommend that you keep a copy of the original proof of purchase, such as the dealer invoice in a safe place.

Remote Image




Quick Reference

Remote Maintenance – Battery Charging


The 2WR5-SF comes with a rechargeable battery. Use the included power adapter and micro USB cable to charge your remote.

First, locate the micro USB port on the top of your remote. Connect your micro USB cable to your computer or USB power adapter. The LCD on the front of the remote will show that your remote is charging. This should take approximately 2 hours.


2 Way Remote Button Functions

Button	Duration	Description
	half second	Locks doors and if equipped, arms the alarm.
	Double Tap	Unlocks doors and if equipped, disarms the alarm.
	Long Hold (3 secs)	Holding this button will start your vehicle. Repeat and this will shut your vehicle down
	Double Long Tap (5 secs)	Accesses Remote Menu

Button Functions in Menu mode

Button	Duration	Description
	half second	Enable or Disable EZGO mode.
	Double Tap	Enable or Disable Buzzer Sound.
	Long Hold (5 secs)	Turn off the remote controller. Into the Power-Down mode.
	Double Long Tap (2 secs)	Menu mode out.

Button Functions in Power-Down mode


Button	Duration	Description
	half second	Battery Level Check.
	Long Hold (3 secs)	Turn on the remote controller.

General Features

The remote transmitter functions are predetermined and programmed from the factory. The one button configuration allows for many functions to be performed through a series of tapping and/or holding buttons.

Sending Commands




When in range and a command has been sent, the remote will receive a page back and LED confirmation. For example, to send a remote start command from the 2 Way remote, hold down the


 button for 3 seconds. The remote will beep once to confirm the command has been sent and that the remote is in range. Once the vehicle has successfully remote started, the remote will receive a confirmation indicating the vehicle is running.

Receiving Commands

The remote pager will receive confirmation of sent commands and remote start notifications. For example, after sending the lock command, the 2 Way remote will chirp and LED's flash, confirming that the vehicle has been successfully locked/armed. **IMPORTANT:** 2 Way SF remotes do not receive page back alerts if an alarm is triggered only while your vehicle is remote started.


Active Lock/Arm and Unlock/Disarm

Tap  for a half second to lock/arm. The LED will flash on your remote. If your vehicle is locked, double tap  to unlock; if your vehicle is unlocked, tap  to lock.

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

IMPORTANT: If your alarm has been triggered (Siren is sounding, parking lights flashing, and/or horn honking), you must wait until your 2 Way LCD remote has been paged before disarming. The first unlock button tap will shut off the alarm. The second will unlock/disarm the system.

Automatic Transmission Remote Start Function

Hold the  button for 3 seconds to remote start an automatic transmission vehicle. If you are in range and vehicle is ready to start, the remote will beep once and the backlight will light up indicating that the remote start command has been successfully transmitted.

If you are in range and the remote beeps three times, there is a remote start error. Refer to the "remote start error diagnostic" on the last page of this manual for details.

Upon remote start confirmation, the LED's will begin flashing to show the amount of run time remaining. The remote start run time can be programmed for 3, 15, 25, or 45 minutes – ask your local authorized dealer to adjust your remote start run time.

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 pressed prior to turning the key to the "on" position, the vehicle will shut off.

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.

IMPORANT:

- The FT-DAS must be installed and working properly.
- 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 install this remote start on a manual transmission vehicle that has a convertible or removable top.
- Do not set reservation mode or remote start with people in the vehicle.

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, visit your local authorized Firstech dealer for service.

STEP 3: Exit the vehicle and close the door. The vehicle's doors will lock/arm and then engine will shut down. If the vehicle's engine does not shut off, your door trigger may not be functioning properly. Discontinue use of the remote start feature and take your vehicle to a local authorized Firstech dealer for service.

When the vehicle shuts off, your system is in reservation mode and is ready to safely remote start.

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

Cancelling Reservation Mode

Reservation mode will be cancelled for the following reasons;

- The FT-DAS is not installed and/or configured correctly.
- 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 vehicle's door, hood, trunk or set off the alarm.

Reservation Mode Settings

Reservation mode settings can be programmed by your authorized dealer.

Option 1: Locks doors before Reservation Mode is set.

Option 2: Hold Key/Start button to initiate Reservation Mode.

Option 3: 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.

Option 4: Locks doors after Reservation Mode is set.

FT-DAS

STEP 1: Turn the ignition to the 'on' position.

STEP 2: 2 Way remotes-hold buttons 1 and 2 (Lock and Unlock) for 2.5 seconds. You will get two parking light flashes. 1 Way remotes-hold Lock and Unlock for 2.5 seconds. You will get two parking light flashes.

STEP 3: To set the Warn Away Zone 1, tap button 1. (1 Way: Lock) After you get one parking light flash, tap the vehicle. You will get siren chirps 1-most sensitive through 10-least sensitive. This sets the impact sensitivity of Warn Away Zone 1. **Setting Zone 1 will automatically set Zone 2. If you would like to manually set Zone 2 proceed:**

To set Instant Trigger Zone 2, tap button 2. (1 Way: Unlock) After you get two parking light flashes, tap the vehicle. You will get siren chirps 1-lowest through 10-highest. This sets the impact sensitivity of Instant Trigger Zone 2.

STEP 4: Once you get two parking light flashes, you are ready to test your DAS.

FT-Shock

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 vehicles is somewhere between 2 and 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 Features

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

RPS Touch and RPS (Remote Paging Sensor)

The RPS is an optional feature. The car call/RPS feature uses a small sensor that is mounted on the inside of your windshield.

RPS Touch (Remote Paging Sensor)

The new RPS touch has multiple features including: remote paging, 4 digit pin unlock/disarm, and arm/lock. All features are operated with a simple touch of the sensor.

Please have your installer program the RPS Touch controller settings.

RPS Touch and car call functions do not require programming, however in order to unlock/disarm your vehicle you must program a 4 digit passcode using the instructions below:

STEP 1: Choose your RPS Touch 4 digit code. '0' is not available.

STEP 2: Turn ignition to the 'ON' position and leave driver's door open.

STEP 3: Hold your finger over the 'Red Circle' icon for 2.5 seconds.

STEP 4: When the siren chirps and LED's flash in a circular pattern, tap on your first number. (Hold the number for 2.5 seconds to choose 6 through 10.) After choosing your first number you will get one siren chirp and LED's will flash in a circular pattern.

STEP 5: Repeat Step 4 until all four digits are set. You will get 1 siren chirp and 1 parking light flash. Repeat Steps 2 - 5 if you get 3 chirps and light flashes. Your RPS Touch is now programmed.

Alarm rearm and lock

To rearm, hold your finger on the 'Red Circle' for 2.5 seconds.

Alarm disarm and unlock

To disarm, hold your finger over the 'Red Circle' for 2.5 seconds. Once the LED's start their circular pattern, enter your 4 digit code. (Refer to Step 4 above.) Two seconds after entering the 4th digit, your system will disarm.

2 Way LCD remote paging

To page a 2 Way LCD remote just tap the 'Red Circle' twice.

Touch Panel Sensitivity

To change touch sensitivity open the driver's door, hold the button on the back of the RPS Touch until the LED's go out. Release button and tap again. The number of solid LED's represent sensitivity of touch, 1 being the lowest, 5 the highest.

RPS (Remote Paging Sensor) Unlock/Disarm

RPS and car call functions do not require programming, however in order to unlock/disarm your vehicle you must program a 4 digit passcode using the instructions below:

STEP 1: Disarm/unlock the alarm (remote must be programmed first) and choose a 4 digit code. You can not have zeros.

STEP 2: Turn ignition key to the "on" position and leave the driver's door open.

STEP 3: Knock on the windshield in front of the RPS a total of 5 times (each time you knock the LED on the RPS will flash RED). The LED will begin to flash rapidly in BLUE with successful completion of this step.

STEP 4: Enter the first digit of the desired four digit pass code by knocking on the windshield in front of the RPS the desired number of times. For example, to enter 3, knock on the sensor 3 times (each time you knock the LED will flash RED) then wait.

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

STEP 6: Repeat steps 4 & 5 to enter all four numbers.

STEP 7: Turn the ignition OFF - the RPS disarm/unlock passcode is now programmed. Follow steps 3 – 5 to enter your disarm/unlock code.

Alarm rearm and lock

To rearm, knock on your sensor 5 times.

Alarm disarm and unlock

To disarm, knock on your sensor 5 times. Wait for the Blue LED's to flash rapidly. Follow STEP 4 and 5 above to enter your 4 digit passcode.

2 Way LCD remote paging

To page a 2 Way LCD remote just knock on the RPS twice.

Knock Panel Sensitivity

To change knock sensitivity, disarm the system and adjust the switch on the rear of the RPS. The larger the circle, the more sensitive the knock sensor is.

More Optional Sensors

If you purchased an Alarm or Alarm and Remote Start system, you can add additional sensors from Firstech.

Protect your investment by adding a battery back up system to protect main power or a FT-DAS sensor to protect custom wheels and tires.

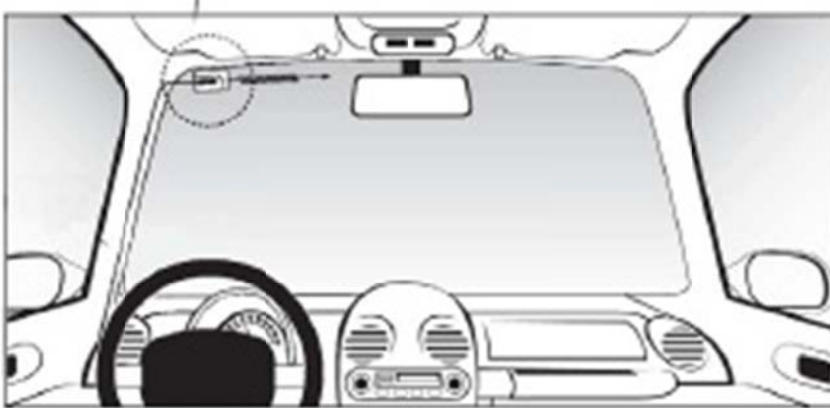
Description of antenna module installation position



<< Antenna Module >>



<< Harness >>



<< Installation of Antenna Module >>

Note: Use the power of car battery(+12volts).

The Antenna module have been calibrated for horizontal installation at the left-top corner of the windshield.

Installing the Antenna Module.

STEP 1: Set the controller option 1-14 to setting 4.

STEP 2: Connect 6 Pin (2 row) to Antenna module and connect 6 or 4 pin (1 row) to Controller.

STEP 3: Find a spot to mount your ANT-2WSF on the windshield. This is recommended for optimum range. For more specific mounting location information visit us at www.firstechonline.com under the Authorized Tech section document titled: "FT-EZGO Recommended Mounting Locations."

Testing the EZGO

STEP 1: Turn the auto unlock feature on. You will get one parking light flash and/or siren chirp.

STEP 2: Arm/Lock the vehicle and wait at least 15 seconds.

STEP 3: Walk up to the vehicle and it will automatically unlock/disarm.

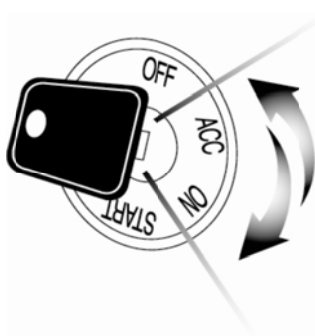
Remote Coding / Programming Routine

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

Programming 2 Way 1 Button Remotes:

STEP 1: Activate Valet/Programming mode by manually turning the ignition key *on* and *off* (between the Acc & On positions) five times within 10 seconds. The vehicle's parking lights will flash once with the successful completion of this step.

STEP 2: Within 2 seconds after cycling the ignition for the 5th time, tap the Lock button on **2 way remotes** or the (lock) button on **1 way remotes** for a half second. 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 **2 way remotes** or the (lock) button on **1 way remotes**. The parking lights will flash once confirming each additional remote. All compatible systems can recognize up to 4 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 or must first program tach
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 tachless sensing failure
9	FT-DAS sensor shutdown
10	System is in Valet Mode

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

Remote Start Shutdown Error Codes

If the remote start sequence has been completed and the vehicle shuts down, the vehicle's parking lights will flash 4 times, pause then flash again with the error code. Tap button 4 on 2 Way remotes to initiate the shutdown error codes. On 1 Way remotes hold the Trunk and Start buttons together for 2.5 seconds.

Number of Parking Light Flashes	Remote Start Shutdown Error
1	Lost engine sensing signal
2	Lost emergency brake signal
3	Foot brake triggered
4	Hood pin 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., 21903 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.

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.

Firstech, LLC. 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 Compustar, Compustar Pro, Arctic Start, Vizion, or 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 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.