

User manual

For

TR3420BF

WELCOME TO IDATASTART

Congratulations on the purchase of your iDataStart VW2 remote start system. Please take a moment to review the following table of contents to help you quickly access the information you need.

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Headquartered in Montreal, Canada, Automotive Data Solutions Inc. (ADS) is a privately held company specialized in the development and marketing of remote start and audio integration solutions destined for the automotive aftermarket. ADS'

CUSTOMER SUPPORT: 866.427.2999 / WWW.IDATASTART.COM

award-winning products (marketed under the iDatalink®, iDatalink Maestro® and iDataStart® brands) are sold and installed through a network of Authorized Dealers across North America, South America, Europe and Russia. For more information about ADS' products and services, visit www.adsdata.ca.

IDATASTART REMOTE OVERVIEW

Your iDataStart VW2 remote start system includes the long-range remote listed below. Please take a moment to familiarize yourself with its general features.

| REMOTE MODEL | TR3420BF |
|----------------------------|----------------|
| Technology | LoRa 2-WAY |
| Max. Range | 1 Mile |
| Buttons | 2 |
| Transmit Confirmation (TX) | Top LED |
| Receive Confirmation (RX) | Top LED |
| Batteries Required | 1 x CR2450 |
| Avg. Battery Life | 8 to 15 months |
| Warranty | 1 year |

IDATASTART REMOTE FUNCTIONS & CONFIRMATIONS

Thanks to their multiplexing technology, iDataStart remotes can start, stop, lock and unlock your vehicle using only 1 button. Please take a moment to get acquainted with the following functions below:

NOTES:

1. Non-highlighted icons = Press & release button
2. Coma (,) between icons = Press buttons one after the other
3. Highlighted (grey) icons = Press & hold button for 2.5 seconds
4. Timeout between each button press = 3 seconds
5. Confirmations are only available with TR3420 (2-way) remote

| BUTTON(S) | FUNCTION | CONFIRMATION (2-WAY ONLY) | FUNCTION DESCRIPTION |
|---|-----------------|---------------------------|---|
|  | Lock & Arm | 1 chime + 1 flash | Secures your vehicle by locking the doors and arming the alarm. |
|  | Unlock & Disarm | 2 chimes + 2 flashes | Access your vehicle by unlocking the doors and disarming the alarm. |
|  | Start/Stop | 4 chimes + 4 flashes | Starts and stops the engine. |

PROGRAMMING A NEW IDATASTART REMOTE

Are you replacing a lost or damaged remote or simply adding an extra remote to your iDataStart system? Please take note of the following:

1. A functional iDataStart system must already be installed in your vehicle.
2. All new remotes must be installed by an iDataStart Authorized Dealer.
3. A maximum of 4 remotes can be programmed to your iDataStart system.

REPLACING IDATASTART REMOTE BATTERIES

Follow the steps below to replace the batteries in your iDataStart remotes OR scan the QR code below to view a video tutorial.

1. Insert a 25 cent coin into the hollow (bottom left) corner of your iDataStart remote.
2. Gently twist the coin until the casing pops open.
3. Use your coin to pry open the rest of the case perimeter.
4. Carefully remove the circuit board from the case.
5. Slide the old battery out of its enclosure and replace with the new battery.
6. Carefully replace the circuit board into bottom half of the casing.
7. Snap top and bottom casings back together using your hands.



REMOTE STARTING FROM FACTORY KEY FOB

Available on most vehicles, your iDataStart system will enable remote start functionality from your factory key fob as follows:

| BUTTON | PRESS | FUNCTION |
|--------|------------|--------------|
| ✉ | 3x rapidly | Start engine |
| ✉ | 3x rapidly | Stop engine |

Remote start range will vary by key fob. If your iDataStart system does not include long range remotes, you may still add iDataStart remotes (sold separately) at a later date. Ask your iDataStart Authorized Dealer for details.

ADJUSTING ENGINE RUNTIME SETTINGS

Once remote started from your factory key fob or long-range remote, your vehicle will run for the programmed 'runtime' setting. The default runtime is 15 minutes but it can also be programmed for 3, 5, 10, 25, 30 or 35 minutes. If you wish to change your remote start runtime setting, contact your iDataStart Authorized Dealer.

KEY TAKEOVER FOLLOWING REMOTE START

Available on some vehicles, the 'key takeover' procedure ensures that your engine does not turn off when entering the car during the remote start runtime, following a remote start command. Follow the instructions below or scan the QR code to view a video tutorial.

For Standard Key Vehicles

1. Unlock and enter vehicle
2. Close doors
3. Insert key into ignition and turn ignition to ON position
4. Press foot brake



For Push-To-Start Vehicles

1. Unlock and enter vehicle with valid smartkey
2. Close doors
3. Press foot brake



NOTE: To prevent your vehicle from shutting down, complete the steps below within the programmed delay time (45 seconds, 90 seconds, 3 minutes or 4 minutes). Key takeover procedure may vary by vehicle, ask your iDataStart Authorized Dealer for details.

WHEN SERVICING YOUR VEHICLE

To ensure safety during vehicle servicing, the remote starter must be placed in 'Valet Mode'. The 'Valet Mode' will disable remote start functionality. To activate or deactivate the 'Valet Mode', follow the instructions below or scan the QR codes to view a video tutorial.

With Vehicle Key

| FUNCTION | ACTION | # OF PARKING LIGHT FLASHES |
|----------------|--|---|
| Valet Mode ON | Cycle ignition OFF/ON 2x rapidly, then press brake 3x. |  1 |
| Valet Mode OFF | |  2 |

With iDataStart Antenna

| FUNCTION | ACTION | # OF LED & PARKING LIGHT FLASHES |
|----------------|--|---|
| Valet Mode ON | Turn ignition ON, then press & hold button for 5 seconds |  1 |
| Valet Mode OFF | |  2 |

REMOTE START TROUBLESHOOTING

If your iDataStart remote fails to start the vehicle, the parking lights will flash three times immediately, then flash a number of times according to the errors below:

| # OF PARKING LIGHT FLASHES | DIAGNOSTIC | SOLUTION |
|----------------------------|--------------------------------|---------------------------|
| 3 + 1 | Engine is already running | Turn engine OFF |
| 3 + 2 | Key in ignition at ON position | Remove key from ignition |
| 3 + 4 | Trunk is open | Close trunk |
| 3 + 5 | Foot brake is ON | Release foot brake |
| 3 + 6 | Hood is open | Close hood |
| 3 + 8 | Tach failure | Contact Authorized Dealer |
| 3 + 10 | System is in Valet Mode | Exit Valet Mode |
| 3 + 11 | Can communication failure | Contact Authorized Dealer |

VEHICLE SHUTDOWN TROUBLESHOOTING

If the remote start sequence has been completed and the vehicle shuts down, the vehicle's parking lights will flash 4 times immediately, then flash a number of times according to the errors below:

| # OF PARKING LIGHT FLASHES | DIAGNOSTIC | SOLUTION |
|----------------------------|-------------------------------|--|
| 4+1 | No engine rev detected | Turn ignition ON before trying to remote start |
| 4+3 | Foot brake detected | Release foot brake |
| 4+4 | Hood open detected | Close hood |
| 4+5 | Engine revving over 3000 RPM | Check your accelerator pedal |
| 4+6 | Glow plug error | Contact Authorized Dealer |
| 4+7 | Vehicle speed sensor error | Contact Authorized Dealer |
| 4+8 | 'Check Engine' light detected | Clear 'Check Engine' code |
| 4+9 | Low fuel detected | Add fuel |
| 4+10 | Door open detected | Close door |
| 4+11 | CAN communication failure | Contact Authorized Dealer |
| 4+13 | Key takeover not allowed | Key fob not detected OR Takeover procedure not completed correctly OR takeover is not available for your vehicle |
| 4+14 | Module overheat protection | Contact Authorized Dealer |

LIMITED LIFETIME WARRANTY

Automotive Data Solutions Inc. ("ADS") warrants to the original purchaser of the iDataStart product that the following components product shall be free of defects in material and workmanship under normal use and circumstances:

Control module and installation harnesses

For as long as the original purchaser owns the vehicle in which it was originally installed.

Remote transmitters and antenna

For the period of one (1) year from the date of original installation.

Excludes battery replacement.

In the event of any product malfunction during the Warranty period, the original purchaser must return to the Authorized Dealer where it was originally purchased with the original proof of purchase. If a malfunction is detected, the Authorized Dealer will elect to repair or replace the product at its discretion. Labor costs may be applicable and are at the discretion of the Authorized Dealer.

THE LIMITED LIFETIME WARRANTY IS AUTOMATICALLY VOID IF:

- An original proof of purchase is not provided when servicing the product during the warranty period;
- The date code and/or serial number is defaced, missing, or altered;
- The iDataStart product is transferred to another vehicle;
- The vehicle in which the product was originally installed is transferred to a new owner.

ADS is not responsible 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 have resulted from the installation or operation of an iDataStart product.

FCC STATEMENT

1. 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.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

SAR INFORMATION STATEMENT

Your wireless CAR ALARM (TWO WAY) is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless CAR ALARM (TWO

WAY) employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 4.0 W/kg. Tests for SAR are conducted with the CAR ALARM (TWO WAY) transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the CAR ALARM (TWO WAY) while operating can be well below the maximum value. This is because the CAR ALARM (TWO WAY) is designed to operate at multiple power levels so as to use only the power required to reach the network.

In general, the closer you are to a wireless base station antenna, the lower the power output. Before a CAR ALARM (TWO WAY) model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model CAR ALARM (TWO WAY) when tested for use at the extremity is 0.049W/Kg.

While there may be differences between the SAR levels of various CAR ALARM (TWO WAY) and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model CAR ALARM (TWO WAY) with all reported SAR levels

evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model CAR ALARM (TWO WAY) is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on 2AEPJ-TR3420BF. Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at <http://www.wow-com.com>.* In the United States and Canada, the SAR limit for CAR ALARM

(TWO WAY) used by the public is 4.0 watts/ kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

This device complies with FCC and ISED 10-g extremity SAR requirements when the device is used at 0 mm separation.

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

IC STATEMENT

This device complies with Industry Canada licence-exempt RSS standard(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.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This

transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 4.0 W/kg, averaged over one gram of tissue. The highest SAR value reported under. This standard during product certification for use

when properly test at the extremity is 0.049W/kg.

Ce dispositif est conforme aux normes autoriser-exempts du Canada RSS d'industrie
L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le
brouillage est susceptible d'en compromettre le fonctionnement.Cet équipement
est conforme avec l'exposition aux radiations IC définies pour un environnement
non contrôlé. L'utilisateur final doit respecter les instructions de fonctionnement spécifiques pour satisfaire la
conformité aux expositions RF. Cet émetteur ne doit pas être co-localisées
ou opérant en conjonction avec une autre antenne ou transmetteur.Ces exigences définissent
la valeur SAR limite à 1.6 W / kg en moyenne par gramme de tissu.

l'échelle maximale sar en mode extremity est de 0.049 W kg
Cet appareil a été testé pour des opérations portés sur le corps typiques. Pour se conformer
aux exigences d'exposition aux radiofréquences, une distance minimale de 15 mm doit être
maintenue entre le corps de l'utilisateur et le combiné, y compris l'antenne. Les pinces de
ceinture, les étuis et autres accessoires similaires utilisés par cet appareil ne doivent pas

contenir de composants métalliques. Les accessoires portatifs qui ne répondent pas à ces exigences peuvent ne pas se conformer aux exigences d'exposition RF et doit être évitée.
Utilisez uniquement l'antenne fournie ou une antenne approuvée
CAN ICES-3 (B)/NMB-3(B)