

# START F ONE 2

your car in your smartphone



## START F ONE 2

*Remote start & Telematic control module  
User guide  
(firmware version 2.02 and higher)*

## STARTFONE 2

The **StartFone 2 telematic control module** (following simply **StartFone**) has been designed for anti-theft vehicle protection, to control the remote start and warm up of the engine, and also performs service tasks.

**StartFone** can be controlled by OEM car remote, via the voice menu (direct call), short text commands (SMS), and also through the WEB-application (GPRS). Depending on the settings, **StartFone** notifies the owner of the most important events using either of the specified channels, or a combination thereof.

Please visit [www.startfone.su](http://www.startfone.su) if you have additional questions.

### Table of content

page 2	Critical warnings
page 3	How it works
page 3	Important: Access code
page 3	OEM remote
page 4	Principles of control and notification
page 4	Phone call control
page 5	SMS commands
page 6	Notifications
page 7	Engine cut-off control
page 9	WEB-application
page 12	What if...
page 12	Optional equipment
page 12	Warranty

### Installation of StartFone

This module must be installed by qualified technician or engineer only. The installation should correspond to official standards and regulations for mounting of additional car aftermarket electronic modules.

### Safety instructions

NEVER run the vehicle in an enclosed area or area without proper ventilation. Running engine produces dangerous gas byproduct Carbon Monoxide.

There MUST BE a Carbon Monoxide detector in the living area adjacent to the vehicle. All doors leading from living areas to the vehicle storage area must at all times remain CLOSED.

It is the user's RESPONSIBILITY to properly handle and keep out of reach from children all ignition keys and / or control units to prevent the unintentional start of the vehicle.

### Servicing the vehicle

When having the vehicle serviced, ALWAYS disable the remote start feature of **StartFone** by entering Valet mode:

- Please check that the **StartFone** is disarmed, ignition off, cut-off disabled i.e. you can start the engine without problem;

**then:**

- send SMS like **PASS\*01\*** (where **PASS** is your Access code, equals to 1234 "on default");

**or:**

- press "**Activate Valet mode**" button of the WEB-application;

**or:**

- switch ON ignition and **press 6 times the Access code input button** within next 20 seconds (refer to **Access code** section on page 3).

**as a result you must hear confirming melody.**

It will protect against accidental engine start during service and uncontrolled moving of the vehicle through the territory of workshop.

**Important:** Please do not forget to disable Valet mode after service similarly: send SMS like **PASS\*00\***; or use **WEB-application**; or switch on ignition and **press Valet button 6 times**.

## How it works

OEM remote (described in more detail in **OEM remote** section on page 3):

- press one of the buttons of the remote.

Call control (refer to **Phone call control** sections on pages 4 - 5):

- call the number of SIM card installed in **StartFone**;
- wait until you get to the voice menu;
- select the desired menu item and send the control command using the prompt.

SMS control (**SMS commands** sections on pages 5 - 6):

- send proper SMS command.

WEB-application (**WEB-application** on pages 9 -11):

- load and press the button.

Notification:

- if **StartFone** calls you, lift the handset and figure out a reason. You can refuse to receive a call in obvious cases;
- when you receive an SMS message, read it and act according to the situation;
- you can see the actual status of the car on the screen of WEB-application.

## Important: Access code

Access code is the highest secret of your module. It enables to control the vehicle via any phone. "Default" setting of Access code is 1234.

**Important:** You must change "default" Access code to your own unique one.

The procedure of changing of an Access code is described in sections **Phone call control: Voice menu** and **SMS commands: Main** on page 5.

Access code can be used for:

- calls to **StartFone** from unregistered phone numbers;
- SMS command control as mandatory parameter;
- urgent disarming of **StartFone** while other possibilities are unavailable.

**Important:** Access code may be entered by one of OEM vehicle buttons or an installer can mount additional one. This is Valet button.

To disarm **StartFone** by Valet button:

- switch ON ignition;
- you have 10 seconds to start the entering of the first digit by pressing Valet button (each pressure is confirmed by buzzer);
- make pause for 1 second and the buzzer confirms the entering of the first digit;
- enter the second digit;
- and so on...;
- after the entering of full Access code you can hear conforming trilling, **StartFone** is disarmed, you can drive your vehicle until next Arming.

## OEM Remote

Use the buttons of your remote as usual:

- press UNLOCK. **StartFone** is Disarmed;
- press TRUNK in any mode of **StartFone** even in Armed. Trunk is opened without alarm. The second pressure can close trunk in some vehicles. Or slump it simply and it is armed again;
- press LOCK. **StartFone** is in the Armed mode;
- you can press LOCK one or two or three times within first 5 second while arming (depends on programmed settings). **StartFone** is blocking the work of OEM KEYLESS system now (if it had been realized by an installer);
- wait 15 seconds or more and press LOCK 3 times or LOCK-UNLOCK-LOCK combination (depends on settings). The engine is running.

## Principles of control and notification

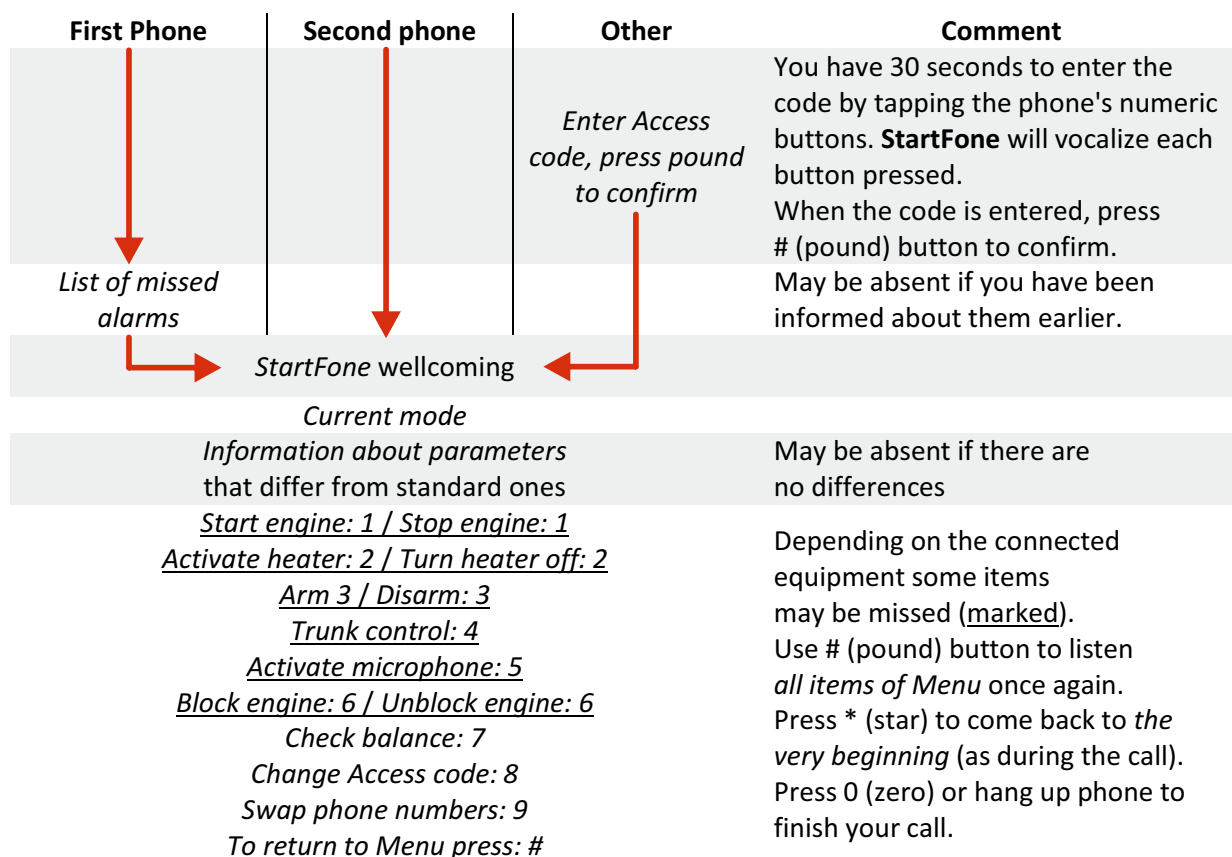
Two phone numbers can be stored in the **StartFone** memory: First (owner's phone), and Second (auxiliary, for example: spouse's phone):

- unconditional control via voice menu is allowed from these numbers only;
- **StartFone** can be controlled from any other phone, but you will must enter the Access code in this case first;
- SMS command control always requires entering the Access code.

**Important:** **StartFone** uses the First number (owner's phone) for notifications (by call or SMS) only.

## Phone call control: Call start

Dial the number of your **StartFone** from any phone. You will hear the following:



**Important:** In case of absence of tapping phone numeric buttons **StartFone** repeats all of this information (from initial "StartFone" till the last menu item) 3 times and hangs up by himself.

## Phone call control: Missed alarms

If **StartFone** could not notify you about some alarms earlier, you can hear their enumeration. For more details see **Notifications: Alarms** on page 7.



## Phone call control: Standard parameters

The standard parameters correspond to the minimum power consumption mode: engine stopped, heater off, doors / hood / trunk closed; and the driving enable mode: engine unblocked.

That is **StartFone** can inform you about the following only:

- "Engine on";
- "Door" and / or "Hood" and / or "Trunk" "Opened";
- "Heater on";
- "Engine blocked".

## Phone call control: Voice menu

All menu items are pronounced in a brief directive form, for example: the item "Start engine: 1" sounds like "Start engine: one". It means that you must press 1 button to start the engine.

## Phone call control: Short outgoing call

**StartFone** module establishes the connection (takes the call) not immediately, but after the third beep. In case you hang up at the beginning of the second beep it treats as a short outgoing control call. It remotely starts the engine (or execute other function pre-programmed earlier).

**Important:** A short outgoing call is available for the First phone number only. The installer must set this function to make it available as its "default" value is OFF.

## SMS commands: Main

A list of the simplest SMS commands copies the structure of the voice menu which makes it easier to remember them. There are few differences only:

- all "activation" commands have a double number (for example, if you must press 9 button in the voice menu to provide "Swap phone numbers", then the corresponding SMS command looks like **99**);
- for "deactivation" command (if available) the last digit must be replaced by **0** (for example, you can "Block engine" by **66** and "Unblock" it by **60**);
- any command is necessarily completed by the Access code;
- symbol \* (star) must be used as a separator between command, Access code and its possible parameter;
- each command's parameter (if exists) must be closed by symbol # (pound).

Thus, the list of primary SMS commands looks like this (in this table the previously set Access code is specified as **PASS**, new one as **CODE**):

Command name	SMS command
Start engine	PASS*11*
Stop engine	PASS *10*
Activate heater	PASS *22*
Turn heater off	PASS *20*
Arm	PASS *33*
Disarm	PASS *30*
Trunk control	PASS *44*
Block engine	PASS *66*
Unblock engine	PASS *60*
Check balance	PASS *77*
Change Access code	PASS*88*CODE#
Swap phone numbers	PASS*99*

## SMS commands: Additional

There are several additional commands not copying the main menu structure (the parameter for the last two ones is the conditional phone number **+PhoneNumber**, which should be specified in international format only starting by symbol + (plus)):

Command name	SMS command
Activate Valet mode	PASS*01*
Deactivate Valet mode	PASS*00*
Location query	PASS*500*
Set First phone number	PASS*91*+PhoneNumber#
Set Second phone number	PASS*92*+PhoneNumber#

## Notifications: General provisions

The car owner can be notified about the most important events (Arming or Disarming, Remote engine start, Alarms, etc.).

One can choose the method of notification for each of them: by a phone call (common or quick call: in the last case **StartFone** interrupts the ringing by itself after a short call waiting) and / or by SMS message (usual or pop-up: the last appears on the screen only and not stored in memory automatically).

**Important:** You can cancel an incoming call in the obvious case for money saving: it is considered as a successful notification. **StartFone** will not try to inform you about this event in future.

All notifications are divided into 2 conceptual blocks.

## Notifications: Alarms

These events can be registered in Armed mode only. You will be informed about them urgently. But “missed” Alarms (in case **StartFone** could not notify you because of net problem or you refused to receive an incoming call) are stored in its memory until the next Disarming:

Notification	Possible reason
Alarm: IGNITION	Ignition switched ON
Alarm: DOOR	Door is opened
Alarm: HOOD	Hood is opened
Alarm: TRUNK	Trunk is opened
Alarm: SHOCK SENSOR	Built-in shock sensor activation
Alarm: TILT SENSOR	Built-in tilt sensor fixed the critical angle
Alarm: POWER FAILURE	<b>StartFone</b> had been rebooted after power failure
Alarm: HIGH IDLE	Critical RPM rising, possible throttle pedal pressure
Alarm: AUXILIARY SENSOR	External sensor triggered

**Important:** Nevertheless if **StartFone** was unable to inform you about any Alarm it is considered as “missed”. You can learn about it during your next call.

## Notifications: Other important events

These events can occur in different modes of **StartFone**, they are not alert but warning and information mainly:

Notification	Possible reason
<i>Engine ON</i>	The engine had been started in Armed mode via <b>StartFone</b> or by OEM remote command
<i>Engine start failed</i>	The start command had been received but the engine is not working
<i>Engine OFF</i>	Successfully started engine stopped running, for example: due to lack of fuel
<i>Engine warm-up finished</i>	By command from <b>StartFone</b> or from OEM key to stop the start; or the warm-up time had been expired
<i>Engine start denied</i>	Unsafe conditions, for example: Disarmed mode, or an Alarm had been previously registered during Arming
<i>Armed mode</i>	<b>StartFone</b> executed Arming command
<i>Disarmed mode</i>	A command to Disarm has been received
<i>Engine blocked</i>	Engine running is prohibited / blocked by <b>StartFone</b>
<i>Engine unblocked</i>	Engine running is re-enabled by <b>StartFone</b>
<i>Heater ON</i>	<b>StartFone</b> received a signal from the heater about the successful operation
<i>Heater OFF</i>	<b>StartFone</b> received a signal from the heater than it had been shut down
<i>Attention: low battery</i>	Critically low power supply
<i>Armed mode denied</i>	The ignition is ON during Arming attempt
<i>Perimeter is opened</i>	Door or trunk or hood is opened during Arming

## Engine cut-off: Possibilities

**StartFone** has several algorithms to control the engine blocking. The cut-off can be:

- activated and deactivated by direct call of by SMS or via WEB-application only;
- deactivated/activated automatically during Disarming/Arming (but you have an ability to control remotely and additionally);
- working as an additional "Immobilizer": you must enter special PIN to switch it OFF (the possibility of remote control is saved too).

**Important:** Realization of engine cut-off needs the correspondent connection to be made by the installer.

## Engine cut-off: AnitHiJack

One can use "AnitHiJack" function to enhance "Immobilizer" feature. In this case engine cut-off can start on its own in case of possible driver forced replacement (door opening without keeping brake pedal pressed while engine is running).

**Important:** You must enter PIN once again for safe driving in this case.

Unless this is done, **StartFone** warns you at the beginning of driving by buzzer sound (first 15 seconds). During next 15 seconds buzzer sound becomes frequently plus hazard lamps are flashing. The engine is cut-off at the 30-th second.

**Important:** You can halt the work of "AnitHiJack" algorithm by entering PIN at any moment.

## Engine cut-off: Immobilizer PIN

Immobilizer PIN consists of one or two digits each one including from 2 up to 9 pressures on different buttons (as OEM as additionally installed ones).

You can switch on "Immobilizer" function and program your own PIN personally as well as deactivate it










Use the following command to change your PIN (and to activate “Immobilizer” option if it has not done earlier):

Command name	SMS command
Set Immobilizer PIN	PASS*PIN*

**Important:** PIN can be changed under the following conditions only: current mode “Disarmed”, ignition “OFF”, engine “Unblocked”.

**Important:** One can hear buzzer confirmation if the pressure has been recognized by StartFone. Use alternative buttons in other case.

Do the following for programming Single-digit or Two-digit PIN (for your choice):

Single-digit PIN	Two-digit PIN	Buzzer sound
Enter your vehicle and switch ON Ignition		
Send SMS: <b>PASS*PIN*</b>		
<b>StartFone</b> confirms receipt and readiness to start learning		ready to accept melody 
Start the entering by pressing buttons within 1 minutes		buzzer confirmation of each pressure 
Take a break for 1 second		digit completed 
-	Enter second digit	buzzer confirmation of each pressure 
Take a break for 1 second		ready to accept melody 
Repeat the first digit		buzzer confirmation of each pressure 
Take a break for 1 second		
-	Wait for “digit completed” melody	digit completed 
-	Repeat the second digit	buzzer confirmation of each pressure 
Wait for “completed” melody		completed melody 

Immobilizer is ON, PIN is stored. Please do not forget in future to enter your PIN before the beginning of driving or after key takeover during remote start for safety. You can hear well-known completed melody as confirmation.

**Important:** In case of unfortunate learning you hear recurring buzzer sound. It means Immobilizer in not active. You can repeat PIN programming or use your vehicle as earlier.

Send the following command to deactivate Immobilizer option temporarily. The pre-programmed PIN is stored in the memory:

Command name	SMS command
Deactivate immobilizer	PASS*immo*0#

**Important:** Please unblock the engine by call, SMS or via WEB-application if you forgot to do it before Immobilizer deactivation.

You can restore Immobilizer by the next command. The pre-programmed and stored PIN is active as earlier:

Command name	SMS command
Activate immobilizer	PASS*immo*1#

**Important:** You cannot activate Immobilizer unless PIN had been pre-programmed earlier.



## WEB-application: Registration ([www.startfone.online](http://www.startfone.online))

**Important:** You must pass WEB-registration by yourself! Do not permit your installer to use his phone number for it. WEB-application is duplicating other methods of communication (phone call or SMS). In case you need the remote assistance of your installer you can pass him your **StartFone** phone number and Access code (with mandatory replacement of Access code after it).

Use the following command for the beginning of registration:

Command name	SMS command
Request of activation key for WEB-application	PASS*key*

You will receive 2 SMS in response:

- the first one contains the **activation key**;
- the second is the actual WEB-page address.

We recommend you to follow the link and mount its label at the screen of your smartphone. The application is truly universal and can work on any type of smartphone, tablet or PC.



There is a more traditional way for Android & iOS based units: you can download the application from **Google Play Store** and **App Store**. Use QR-code from the left (**Google Play Store**) or from the right (**App Store**); of course you can search it for the name **StartFone** simply. There is a small advantage to do it: you do not need to open access to geodata for this service specially.



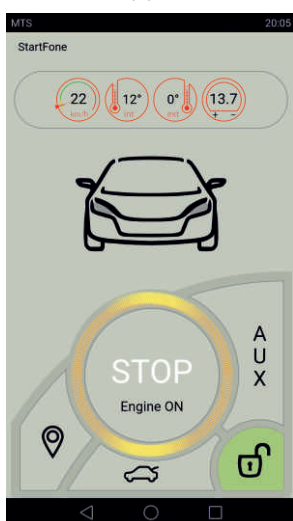
Login at the server. The procedure is very common. You can use the application on any unit by entering your **login** and **password**.

**Important:** Bear in mind your password (do not mix it with Access code or immobilizer PIN!). You can use it for control of your vehicle by any Internet-connected unit.

**Important:** Do not pass your login and password to the third side including your installer. Otherwise you can lose the control of your car.

## WEB-application: Primary glimpse

Start the application.

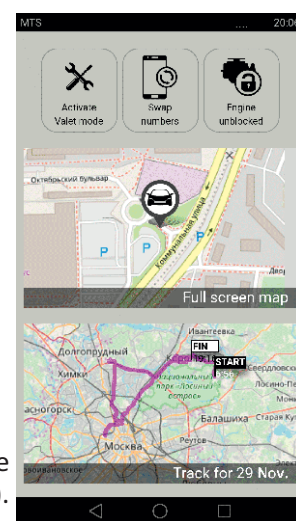


You can see standard screen (at the left). These are main buttons for **StartFone** control.



Pull up the screen.

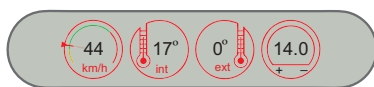
Other features are available (at the right).



The volume of displayed information depends on screen size and its resolution.

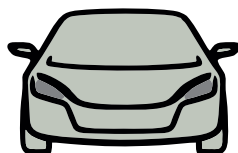
## WEB-application: First screen

**Vehicle data** (from left to right):



- speed (available only if there is an optional GPS receiver installed);
- temperature of internal build-in sensor (interior temperature);
- temperature of external optional sensor (value equals to "0" if absent);
- battery voltage.

**Vehicle status** (combined with "Car finder"):



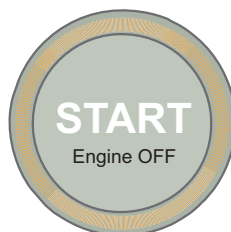
The picture will be changed if door / hood / trunk is opened, for example:



Press this icon in any **StartFone** mode except driving to find the car at parking. The headlamps are blinking several times. Hazard lamps and siren are switched on in synchronism with it:

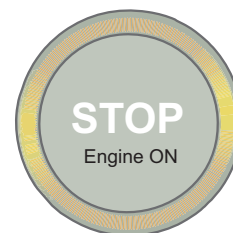


**Remote start main button**



Press for 2 seconds to start the engine in the Armed mode.

Similarly, press the button for 2 seconds to stop the engine started earlier.



**Heater or service unit control**



Press the button to activate installed and connected heater.

As soon as **StartFone** receives the confirmation of heater activation the button changes the color: press it once again to turn heater off.



To control service unit: press the button simply.

**Arming/Disarming**



Press the button to Arm.

Press it once again for Disarming.



**Location query**



Press to receive the actual coordinates as a separate SMS.

**Trunk control**



Press to open the trunk. The second pressure can close it in some cases.

## WEB-application: Second screen

### Valet mode



Press the button to enter Valet mode (**StartFone** must be “Disarmed”, ignition “OFF”, engine “Unblocked”: i.e. one can start the engine by key).

Press it once again to exit Valet mode.



### Swap phone numbers



Press the button to swap First and Second phone numbers.

### Remote Engine cut-off control



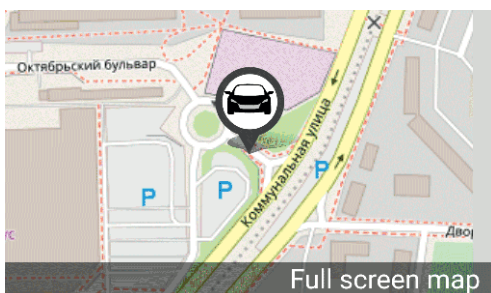
Press to cut-off (block) the engine.

Press once again to unblock the vehicle engine.

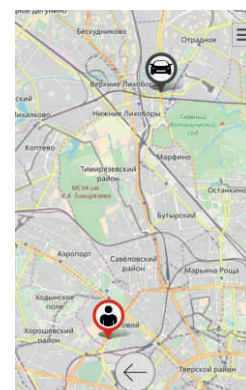


**Important:** You must enter your **password** used for the WEB-registration once again in this case.

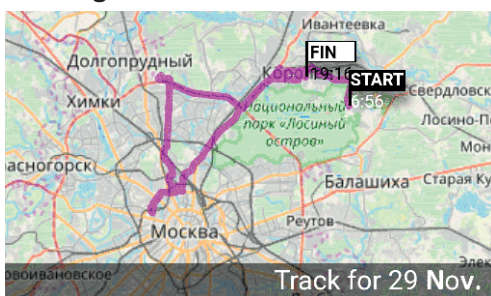
### Location on a map



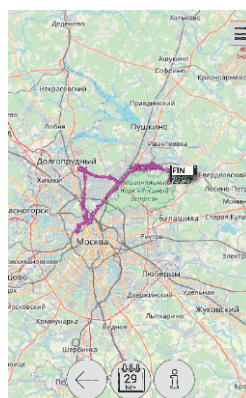
Press “**Full screen map**” to see car location or its position with respect to you.



### Tracking



Press “**Track for today**”, to see it until the present moment; You can learn the full track for any other date.



**Important:** These features are available if there is an optional GPS / GLONASS receiver installed. Otherwise the indirect location (LBS technology) of the vehicle can be accomplished by request only through “**Location query**” button.

### What if...

... **the voice menu is shorter than described in this guide:** the voice menu can be adjusted by installer depending on connected equipment and / or used functions;

... **you are going on vacation and want to pass control to your friend whose phone number has been saved as Second:** use the Phone swap function. Do not forget to do the same on return;

... **remote start does not work, the engine start is denied:** safe-start conditions are not completed - your vehicle in Disarmed mode, or **StartFone** registered an Alarm during current Armed mode period;

... **you hear additional siren "beep" during arming:** Door or hood or trunk is opened. Close and try again.

... **as soon as you blocked the engine you cannot drive your car:** unblock the engine by direct call or by SMS or via WEB-application;

... **you disarmed your vehicle but forgot your PIN:** unblock the engine by direct call or by SMS or via WEB-application.

### Optional equipment

**StartFone** can fix car location by signals from base transceiver stations (LBS technology). You can increase the accuracy of the positioning when using an external GPS / GLONASS receiver (optional).

Built-in sensor of **StartFone** enables the start on the temperature of the module. If an engine temperature start is required an external sensor (optional) can be used.

For acoustic monitoring of the interior **StartFone** supports the operation of an additional microphone (optional) followed by a sound over the phone.

### Warranty

Hereby, the fail-safe operation of the **StartFone** module is guaranteed for 12 months from the date of its installation (but not more than 18 months from the date of issue), as well as its post-warranty service.

The final user can extend the warranty for 2 additional years personally by registration of **StartFone 2 module** on [www.startfone.su](http://www.startfone.su) WEB-site.

Warranty (free) repair and maintenance are not subject to modules or their components that have traces of mechanical impact, opening, unqualified repair. The modules filled with water or other liquids, as well as failed due to an accident or malfunction (unqualified repair) of the vehicle's electrical equipment, as well as damage to the connecting wires, are not subject to warranty repair.

The warranty does not apply to the connection cables laid in the vehicle.

The decision of the manufacturer on the validity of the claimed claim, on the advisability of performing warranty or post-warranty repairs, as well as on the possible cost of the latter is final.

Installation date: \_\_\_\_\_  
Date / Signature of the installer

I have accepted terms: \_\_\_\_\_  
Signature of the owner / Surname



**STARTFONE.SU**  
**TECHNICAL SUPPORT: +7(800)250-20-11**

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