

Operation modes

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Armed Mode

Install external short range radio transceiver to control alarm system with two-way key fob

The following zones are controlled in armed mode: ignition, doors, trunk, hood, shock sensor, tilt sensor, motion sensor, auxiliary sensor. If any zone is breached then system shall trigger alarm.

System can be armed when ignition off only. If arming command received at ignition on, then only doors are locked

System is armed in one of following ways:

- Pushing tag button once shortly in disarmed mode
- Pushing remote key  button shortly
- SMS text command **11**
- Voice call menu command **11**
- Command from StarLine mobile app

- Command from starline.online web account
- Arming with factory security system in "SLAVE"
- When the tag is lost or the door handle sensor is touched in "Hands-Free" mode
- Tag loss or holding capacitive sensor in Hands Free mode

System shall confirm arming with 1 lights flash and 1 siren sound

If any of doors, hood, trunk are still open then system shall warn thereof by 4 siren sounds and 4 lights flashes. Shut the breached zone and make sure that 1 light and sound of arming confirmation followed

Silent arming

System can be armed silently without siren sound confirmation in following ways:

- Triple pushing remote key button 
- SMS text command **111**
- Voice call menu command **111**
- Command from StarLine mobile app
- Command from starline.online web account

Silent arming is confirmed with 1 lights flash.

Emergency arming

In case of a tag, remote key batteries discharged and other methods of arming via app and starline.online not available, then system can be armed with following way:

1. Push service button or external transceiver button 3 times
2. Switch ignition On 3 beeps will follow
3. Make sure next 2 beeps come up
4. Switch ignition Off
5. Leave vehicle and shut the doors

Disarmed mode

System is disarmed by one of following ways:

- Short push of remote key  button
- pushing tag button once shortly in armed or alarm mode
- SMS text command **10**
- Voice call menu command **10**
- Command from StarLine mobile app

- Command from starline.online web account
- Disarming factory security system ("SLAVE")
- Tag detection or touching capacitive sensor in Hands Free mode

Disarming is confirmed with 2 siren sounds and 2 lights flashed. If alarm was triggered while armed mode then 3 siren sounds and 3 lights flashes come up at disarming.

All events happened in armed mode will be indicated on remote key display after disarming.

If no any actions taken after disarming (i.e. doors, trunk were not open), then system shall automatically turn to armed mode back and lock the doors (Re-arming).

Silent Disarming

System can be disarmed silently without siren sound confirmation in following ways:

- Triple pushing remote key button 
- SMS text command **101**
- Voice call menu command **101**
- Command from StarLine mobile app
- Command from starline.online web account

Silent disarming is confirmed with 2 lights flashes. If alarm was triggering while armed mode then 3 lights shall follow at silent disarming.

Automatic doors locking on a trip

System can make automatic doors locking on a trip at one of following selected terms:

- ignition is switched On
- vehicle starts moving and brake pedal pressed
- parking brake released
- automatic transmission is shifted from parking position
- preset vehicle speed is reached

Automatic doors unlocking on a trip

System can make automatic doors unlocking on a trip at one of following selected terms:

- ignition is switched Off
- automatic transmission is shifted to parking position
- engine is stopped
- ignition is switched Off and automatic transmission is shifted to parking positioning

- parking brake is tighten

Automatic doors lock / unlock option can be enabled and configured in StarLine mobile app or starline.online account

Trunk unlock in armed mode

If this option is enabled in system configuration then owner can unlock and open trunk by means of a factory remote / trunk lid button in armed mode once StarLine tag is visible in detection range.

Blocking factory Keyless-Go system

The option of factory Keyless-Go blocking via CAN bus brings higher level security as it protects against factory key stealing and relay attack with specific radio hacking devices. The system shall lock factory Keyless-Go system once StarLine tag is away of detection range. And then unlocks it once tag is detected again in range.

This option is disabled in default settings and must be enabled in system configuration. Owner authorisation with tag must be enabled for this option operation. Find out if the option is supported for your vehicle via CAN bus at can.starline.bz

Alarm Mode

Alarm shall go off when any of secured zones is breached in armed mode.

System activates siren alert sound, hazards lights flashing for 30 seconds and notifies owner with phone call and text message. If breached zone is not restored system repeats alert cycle once again.

Any warning zone breaching is followed with 3 lights flashes and 3 siren sounds.

Alarm mode can be aborted with short push of a tag button and  or  remote key buttons.

The maximum number of zone triggering is limited to 8 times within 1 security cycle

Panic mode

Panic mode ensures owner and vehicle security and informs on intrusion attempt. This mode can also be used to easily locate vehicle in a parking lot.

Mode can be activated with double pushing   remote key button, with text message **19** or a command from StarLine mobile app.

System shall activate siren alert and hazard lights flashing for 10 sec in order to scare an intruder and attract other people attention.

Anti-hijack mode

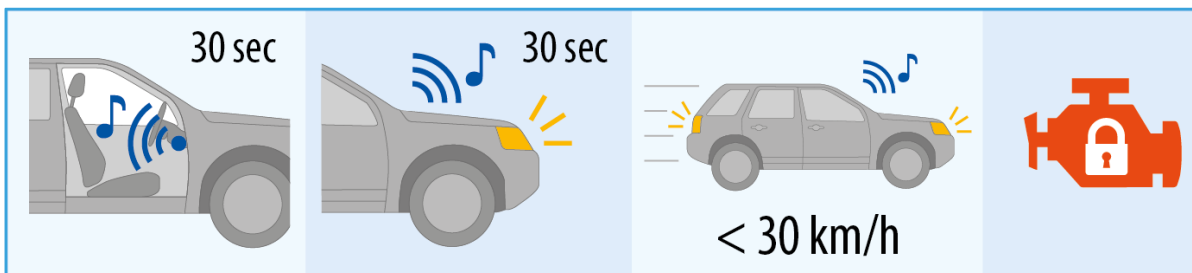
Anti-hijack mode secures driver against assault attempts on trip.

The mode is activated either by owner command or by a tag loss on trip.

Anti-hijack by owner command is activated by one of following ways:

- SMS text message **31**
- Voice call menu command **31**
- Command from StarLine mobile app
- Command from starline.online personal account

System enables warning sounds and lights on upcoming engine blocking for 10 seconds. Then by reaching a speed below 30 km/h engine will be safely stopped.



Exit from Anti-hijack mode is done by one of following ways:

- SMS text command **30 XXXX** , where XXXX - emergency disarm code
- entering emergency disarm code with service button or external transceiver button
- at starline.online personal account with entering emergency disarm code

In case of invalid emergency disarm code is entered 3 times, then a code entry will be blocked for 15 min and owner will be informed with text message.

Anti-hijack by a tag or remote key loss in trip

The mode can be activated by a tag button long push level 1, if it is enabled in system configuration settings.

The mode operation algorithm depends on a vehicle speed reading from CAN bus.

1. Anti-hijack operation sequence when speed supported from CAN bus:

- any of secured zones has been breached (doors, hood or trunk)
- motions sensor has triggered

- in 30 sec system begins seeking for a tag or remote key
- in another 30 sec, if a tag or remote key has not been detected, system enables warning sound and lights for 10 sec
- by reaching a speed below 30km/h engine will be safely stopped.

2. Anti-hijack operation sequence when speed from CAN bus is not supported:

- any of secured zones has been breached (doors, hood or trunk)
- motions sensor has triggered
- in 30 sec system begins seeking for a tag or remote key
- in another 30 sec, if a tag or remote key has not been detected, system enables warning sound and lights for 10 sec
- engine will be stopped in 3 min or at brake pedal pressing.

Exit from Anti-hijack mode by a tag or remote key loss is made by one of following ways:

- when tag or remote key is detected in range
- SMS text command **30 XXXX**, where XXXX - emergency disarm codeF
- entering emergency disarm code with service button or external transceiver button
- at starline.online personal account with entering emergency disarm code

In case of invalid emergency disarm code is entered 3 times, then a code entry will be blocked for 15 min and owner will be informed with text message.

By default, Anti-hijack mode when the tag or remote key is lost is turned off.

To turn it on, press and hold the button on the tag until you see a long red flash, then release the button.

"SLAVE" mode

"SLAVE" mode allows to control security system by means of a factory remote control or Keyless-Go system.

System detects unlocking doors and disarming factory security and waits for owner authorisation with any of below methods before disarming itself:

Waiting for authorisation starts at any of door, hood and trunk open.

- tag or remote key detection in range at disarming during adjusted interval from 15 to 60 sec
- entering personal PIN code with factory buttons at ignition On during adjusted interval from 15 to 60 sec

If authorisation failed by any of methods then system shall activate warning siren sounds and then turn to alarm mode.

It is highly recommended to enable above mentioned secondary owner authorisation methods in "SLAVE" mode in system configuration settings.

Hands Free mode

Hands free mode allows automatic system arming and disarming by a tag loss and detection in range.

The mode is enabled and disabled by one of following ways:

- SMS text commands **71** or **70** , accordingly
- voice call commands **71** or **70** , accordingly
- from StarLine mobile app
- at starline.online personal account
- in remote key operation modes menu

In this mode system is armed either by a tag loss from range or with holding door sensor (optional accessory) with a tag in range.

Systems is disarmed by a tag detection in range or with touching door sensor (optional accessory) with a tag in range.

If any of door, hood or trunk left open when tag is away, then system shall inform owner with SMS text message and siren alert on arming abort.

Once a breached zone restored, system shall turn armed.

If tag is lost on a trip (i.e. battery critically discharged) then system shall turn armed mode in 10 sec after any door open (auto arming).

Auto arming is not executed in Hands Free mode when tag is in range.

Disabling Hands Free mode for 1 security cycle

When tag is within detection range at a parking place, then it is recommended to disable arming and disarming in Hands Free mode for 1 security cycle.

Hands Free is enabled / disabled for 1 cycle by one of following ways depending on current state (disarmed / armed) accordingly:

- arming/disarming with a tag button accordingly

- arming/disarming with remote key button 1 and 2

System shall confirm successful disabling Hands Free for once cycle with 1 sound.

System shall return to default Hands Free by following ways depending on current state (disarmed / armed) accordingly:

- disarming and any of door, hood or trunk open
- switching ignition On or arming command received

Service (Valet) mode

Service mode is used for temporary security deactivation and restricting access to system configuration while vehicle maintenance, car wash etc.

Service mode can be activated from disarmed state only.

In service mode following features are disabled:

- arming and disarming
- hands Free mode
- doors lock and unlock in trip
- remote and automatic engine start
- turbotimer
- trunk unlock
- arming with open trunk with factory remote
- Panic
- anti-hijack by a tag or remote key loss
- entry to system configuration settings
- entry to registration mode

Service mode is enabled by any of following ways:

- tag button long push level 1 (if this option is enabled in system configuration)
- short push of remote key  buttons
- SMS text command **51**
- voice call menu command **51**
- command from StarLine mobile app
- command from starline.online account
- in remote key operation modes menu

Service mode activation is confirmed with a tag LED light turned yellow.

Service mode is disabled by one of following ways:

- Tag button long push level 1 (if this option is enabled in system configuration)

- short push of remote key  buttons
- SMS text command **50**
- voice call menu command **50**
- command from StarLine mobile app
- command from starline.online account
- in remote key operation modes menu
- Emergency disarm code entry

Automatic Exit from Service Mode

If this option is enabled in system configuration then system automatically turns from Service mode to Waiting for authorisation at configured event and ignition On.

If authorisation successfully passed then system turns to Disarmed.

If authorisation failed then system triggers Alarm and activates engine blocking.

This option requires owner authorisation, embedded sensors and vehicle speed from CAN bus to be enabled in system configuration

Immobiliser mode

Immobiliser mode prohibits unauthorised drive attempt.

Depending on settings system waits for owner authorisation with a tag or remote in detection range or PIN code entered with factory buttons after every disarming or every ignition switching Off and at next ignition switching On.

PIN code can be entered with factory buttons only when ignition is switched On.

If authorisation is not passed within 1 min, then engine will be stopped at a drive attempt for 1 min or until successful authorisation passed.

Remote engine start

The feature allows to make remote and automatic engine start and stop to warm up or cool down vehicle interior to a comfortable temperature and warm up engine before a trip.

Preparation of a vehicle with manual transmission for remote and automatic engine start.

If vehicle is equipped with **manual transmission**, then system must be set to “**Program neutral**” state to prepare for further safe remote or automatic engine start in following procedure:

- tighten parking brake at engine running
- remove key from ignition barrel, engine continues running, service button LED will light up permanently
- leave vehicle, shut doors, hood, trunk and arm security system. Engine will be stopped
- system turns to Armed
- “N” (program neutral) icon is indicated on remote key display and StarLine app main screen
- system and vehicle are now ready for remote and automatic engine start

If any door is open or ignition is switched On after setting to Program neutral, then remote and automatic engine start will be denied until Program neutral procedure is executed again

Vehicle equipped with **automatic transmission** must be switched to **Parking position** in order to prepare it for remote or automatic engine start.

Engine start

Remote engine start can be activated by one of following ways:

- 3 x Lock command from factory remote control (if supported for particular vehicle model and enabled in system configuration)
- SMS text command **21**
- voice call menu command **21**
- command from StarLine mobile app
- command from starline.online personal account

Automatic engine start can be activated by following terms:

- engine or interior temperature
- main vehicle battery voltage drop
- periodic engine start set in hours
- engine start by timer

Parameters for automatic engine start can be configured in:

- remote key operation modes menu
- StarLine mobile app
- starline.online account

Automatic engine start is allowed only in armed mode, in 5 min after last engine stop and 1 hour after previous remote and automatic engine start

Engine stop

Engine will be stopped when:

- tag button short push once(if enabled in system configuration)
- long push level 1 of remote key button 

- SMS text command 20
- voice call menu command 20
- command from StarLine mobile app
- command from starline.online personal account
- Alarm mode triggered
- vehicle motion detected
- hood opened
- parking brake released (for manual transmission)
- automatic transmission is shifted out of parking position
- brake pedal pressed
- max engine temperature limit reached

Drive after remote start without engine stop (ignition takeover)

To start driving after remote / automatic engine start without engine stop make following depending on engine control system:

- **for vehicles with ignition barrel**
 - disarm security system
 - insert key into ignition barrel and turn it to ignition On
 - start driving
- **for vehicles with PTS (push-to-start) button**

Option 1:

 - disarm security system
 - press and hold brake pedal for 3 sec

Option 2:

 - disarm security system
 - push PTS button 1 or 2 times

Learn ignition takeover support and particular procedure from your StarLine installer

Parking heater (preheater) control

This feature lets warm up engine and/ or interior before a trip with remote and automatic activating parking heater and auxiliary heater.

Parking heater can be started manually in following ways:

- sequentially pushing remote key buttons  

- SMS text command **221**
- command from StarLine mobile app
- command from starline.online personal account

Default parking heater run time at manual activation is 20 min and can be adjusted in system configuration

Factory and optional parking heater may have embedded primary factory settings, differ from those configured in system settings

Parking heater run time can be extended with sending repeated activation command.

Parking heater can be stopped manually in following ways:

- sequentially pushing remote key buttons 
- SMS text command **220**
- command from StarLine mobile app
- command from starline.online personal account

Parking heater can be automatically started before remote and automatic engine start on events and terms set in system configuration.

Parking heater can be started automatically in following terms:

- by engine temperature – parking heater is started when engine temperature is below the set value
- by timer – parking heater is started at a set time

Temperature and time for parking heater activation can be set in:

- remote key operation modes menu
- StarLine mobile app
- starline.online personal account

Parking heater is stopped when the set engine start temperature (for automatic engine start) or the set parking heater run time is reached and engine will be started then.

Default parking heater automatic run time is 20 min. It can be extended by sending heater start command again.

Intelligent turbotimer

Turbotimer option is used to temporary continue engine running after a trip to cool down turbo charger and extend its lifetime.

The option must be initially enabled and programmed while installation.

Turbotimer activation on vehicles with ignition barrel:

- tighten parking brake at engine running. The service button LED shall light up permanently
- take a key out of ignition barrel. Engine shall keep on running
- leave a vehicle, shut doors, trunk, hood and arm security system
- engine shall stop after interval sufficient for cooling down a turbine

Turbotimer activation on vehicles with Push-to-Start button:

- tighten parking brake at engine running
- leave a vehicle, shut doors, trunk, hood and arm security system
- engine shall stop after interval sufficient for cooling down a turbine

Turbine cool down interval is calculated automatically and depends on engine speed before a trip finished. Max turbine cool down interval is 5 min

Automatic climate scripts

Automatic climate scripts are comprehensive settings of vehicle climate control system that turn on automatically or at the user command

They allow adjust the cabin temperature, windows, seat heaters, ventilation and other comfort options supported in CAN

Depending on ambient temperature, there are 3 scenarios available:

- 1) **"Cold"** - If ambient temperature is below +3 °C, then the climate control temperature is set to Max, and the steering wheel, seats, mirrors, and window heaters turn on. If the difference between engine and outside temperatures is more than 20 °C, then the climate control temperature will be set to value selected in mobile app "Smart comfort" section
- 2) **"Regular"** - When ambient temperature is from +3 to 22 °C, then the climate control temperature, and the heated options will be set as in mobile app "Smart comfort" section
- 3) **"Warm"** - If ambient temperature is above +22 °C, then the climate control temperature is set to Min for 1 min after engine start, and the seats ventilation is activated

At "Ignition takeover" mode, if any of the "Cold" or "Warm" script was active, the climate control temperature is turned to the value set in mobile app "Smart comfort" section

If vehicle does not support Ignition takeover, then the temperature which is set during automatic scenario remains at engine stop

The ambient temperature is taken from vehicle CAN bus. If temperature is not supported in CAN, then the system main unit embedded temperature sensor is used.

Automatic climate scripts can be enabled in the app: "**Device settings**" - "**Remote start**" - "**Smart comfort**"

Find the list of climate control options supported for your vehicle in CAN bus at **can.starline.bz**

Beach mode

In Beach mode system is armed and disarmed without a tag and remote key, which can be left inside vehicle. System is disarmed by owner authorisation with emergency disarm code entered by means of StarLine EC-1 touch sensor installed in a door handle or another

convenient place (under plastic parts). System does not execute any commands from remote key in this mode.

Beach mode activation procedure:

1. disarm security system and switch ignition Off.
2. push service button or external transceiver button 3 times and switch ignition On. 3 sounds confirming entry to Beach mode shall follow. Switch ignition Off.
3. leave vehicle and touch door handle sensor 3 times. System shall turn armed.

Hands Free mode is switched Off in Beach Mode until disarming

Disarming (exit from Beach mode) is done by entering emergency disarm code by means of touch sensor with less than 3 sec intervals. Every valid digit entry is confirmed with sounds and flashes in corresponding number. Full valid code entry is confirmed with double sounds and flashes.

If invalid emergency disarm code is entered 3 times, then next code entry will be blocked for 15 min

If nothing is done after disarming with emergency disarm code, then system shall return to armed and Beach mode remains active

Video recorder (dashcam) control

The option must be initially wired and programmed while installation

System can automatically switch dashcam On to begin recording:

- at ignition switched On – dashcam is activated for 5min
- at full alarm or warn alarm triggered – dashcam is activated for 2 min
- with SMS command **69** dashcam is activated for 5min

If engine is still running in armed mode then dashcam continues operating until engine is stopped

Risky parking

This mode can be used in places with high probability of theft and robbery. In Risky parking mode system shall require owner authorisation with factory buttons at every switching ignition On in disarmed mode. This mode operates regardless immobiliser mode settings made in system configuration.

Risky parking activation:

1. disarm security system
2. switch ignition Off
3. push service button or external transceiver button twice
4. switch ignition On. Double sounds shall follow

Risky parking activation is confirmed with 1 sound and flash, deactivation – with double sounds and flashes.

Emergency braking alert

In case of a forced emergency braking, the system can alert other traffic participants by means of hazard lights blinking

Hazard lights turn off in 5 sec after the end of sudden braking, or beginning of acceleration

The option must be enabled in the system configuration: "**Device settings**" - "**Telematics**" - "**Insurance telematics**"

The main unit embedded accelerometer must be calibrated for the function proper operation (make sure the corresponding option is enabled in system configuration)