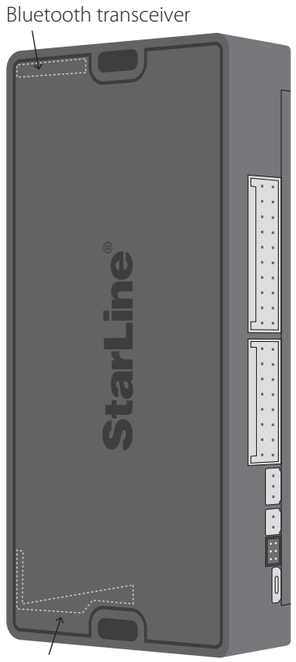
StarLine® S96, S66

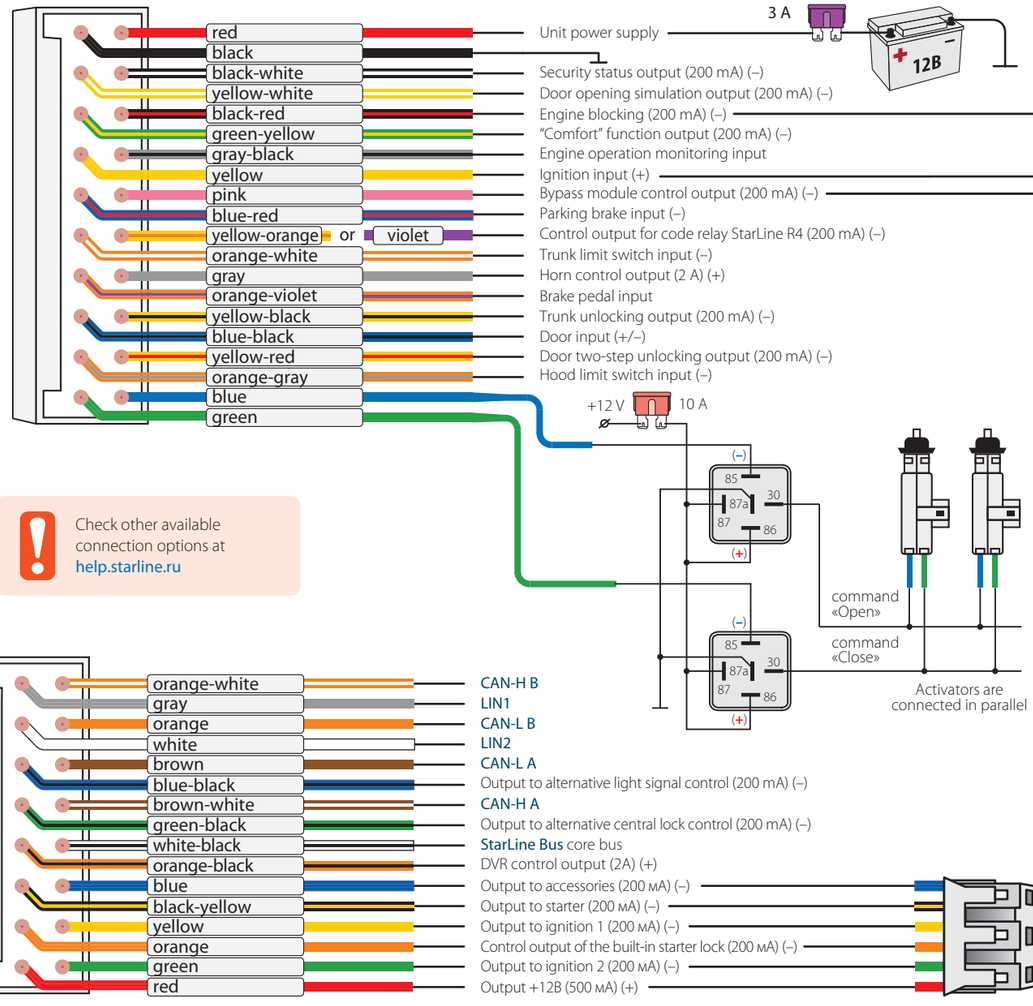
Security – telematic system connection diagram

For the cars equipped with CAN/LIN bus make a connection via the embedded digital CAN/LIN interface, for the elder cars make an analogue connection.
Find information and wiring tips on vehicles and features supported with CAN/LIN connection at **can.starline.ru**



Mounting recommendations
Mount the main unit at a distance not less 10 cm from the metal surfaces, to avoid Bluetooth and GSM signal transmission interference.

X1
X2
X3 — Valet button with LED
X4 — Temperature sensor
X5 — GPS+GLONASS receiver
X6 — USB connector



Check other available connection options at help.starline.ru

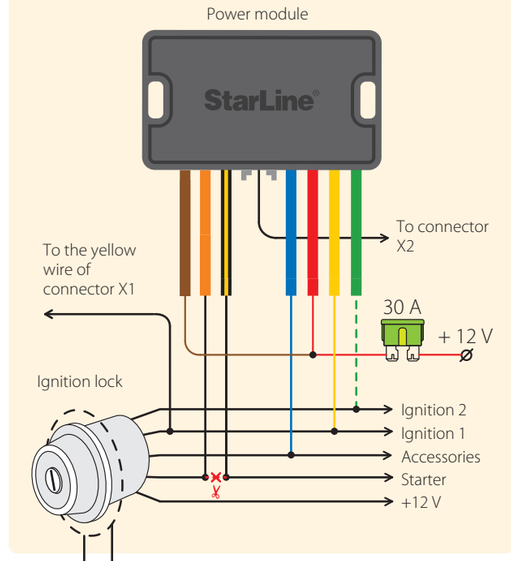
For convenient setup, diagnostics and software upgrade use the free StarLine Master software available at **help.starline.ru/slm/en**

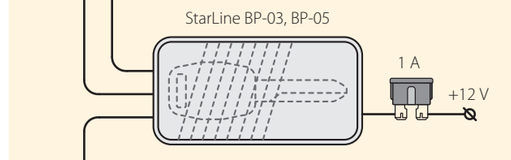
Login into the program with a service code in the owner's plastic card.

The manufacturer StarLine ScPA LLC reserves the right to make technical improvements not shown in this diagram.

Information on firmware updates, actual versions of operation and installation manuals are available at **help.starline.ru**.

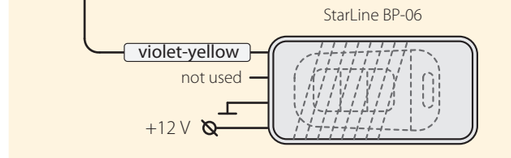
Autostart connection diagram for S96





Variant 1

or



Variant 2

General installation requirements

The security system is designed for installation on vehicles with 12V on board voltage.
Prior to installation, make sure that the vehicle equipment circuits, to which the system is connected, are in suitable operating condition and no any trouble codes and check engine are indicated.
The system installation should be carried out according to the connection diagram.
The "ground" wire of the main unit should be connected first to a car body ground with an original screw.
Mount the wiring far from sources of electrical interference: ignition coils, high-voltage wires, etc.
Make sure that the harness is not lay in contact with the moving parts of the vehicle: pedals, steering shaft etc.
Connect all the harness to the main unit sockets only after all wires mounting is complete.
Do no fit the engine temperature sensor near the exhaust manifold, otherwise it may cause sensor overheating and damage.
Only the qualified and trained fitter may carry out the security system installation.
The configured parameters of the security systems must comply with a vehicle manual instruction requirements.

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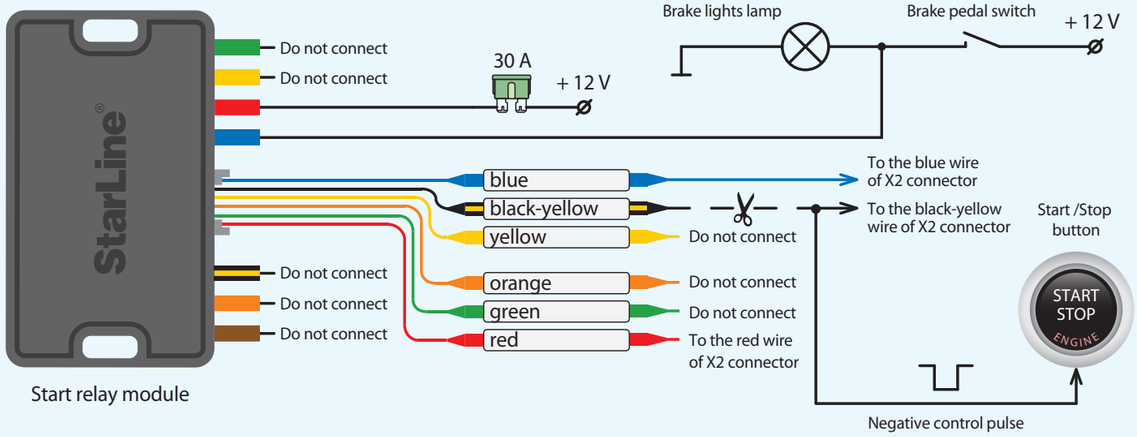
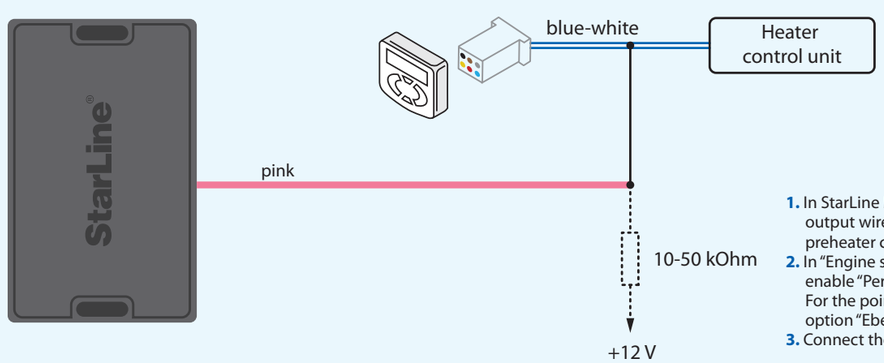
Additional connection options
Configuring the security-telematic system

Diagram of starting circuit connection on cars with Start-Stop button

1. In Starline Master program configure the blue output wire of X2 connector as “Simulation of the brake or clutch pedal”, and the black-yellow output wire of X2 connector - as “Engine start Start-Stop button”
2. Connect the wires according to the diagram

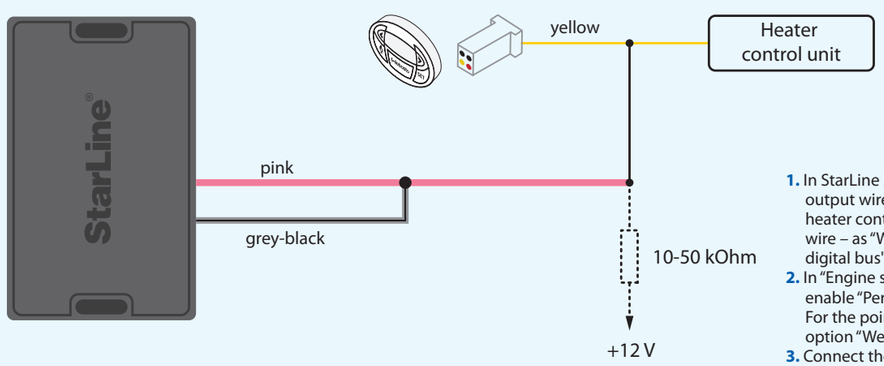


Eberspächer heater connection with digital bus control



1. In StarLine Master program configure the pink output wire of X1 connector as “Eberspacher preheater control via digital bus”
2. In “Engine start” section “Starting preheater” enable “Permission for preheater operation”. For the point “Start type of preheater” select option “Eberspacher via digital bus”.
3. Connect the wires according to the diagram.

Webasto heater connection with digital bus control



1. In StarLine Master software configure the pink output wire of X1 connector as “Webasto heater control via digital bus”, the gray-black wire – as “Webasto preheater start control via digital bus".
2. In “Engine start” section “Starting preheater” enable “Permission for preheater operation”. For the point “Start type of preheater” select option “Webasto via digital bus”.
3. Connect the wires according to the diagram.

NOTE! The tags included in the delivery set are already registered in the main unit and are in the transport mode, i.e. off. Pressing the tag button in this mode will be indicated by a green and red flashes of the built-in LED. Prior to operation press the tag button several times until the LED color turn to green (regular mode).

New devices registration

NOTE! At registration of new tags and smartphones all previously registered tags and smartphones will be erased from memory. So the existing devices should be registered simultaneously in one cycle with all the new devices. In total up to 5 devices can be registered in the system main unit.

Entry in device registration mode

1. Disarm the security system.
2. Switch ignition Off if it is On.
3. Press the valet button 7 times.
4. Switch ignition On. 7 light LED flashes of service button and 7 siren sounds will follow.
5. 2 short LED flashes and siren signals will confirm entry into the Registration mode.

Bluetooth tags registration

6. Remove a battery from a tag.
7. Hold a tag button pressed and insert a battery back. A tag LED will turn red.
8. Release a button, a series of red flashes will follow.
9. In 10 seconds successful registration will be confirmed by a green LED flash, 2 flashes of a service button LED and 2 siren sounds. If a tag is not registered LED will turn red.
10. Repeat points 6-9 for all remaining tags.

Smartphone registration

11. Register a smartphone* with use of the free StarLine mobile App.

Exit from device registration mode

12. In 10 seconds switch ignition Off to exit the registration mode. An exit from Registration mode will be confirmed by double LED flashes and siren sounds and then additional signals in amount of total registered tags, keys and smartphones will follow.

** The iOS and Android smartphone with Bluetooth Smart 4.2 and above are supported.*

Programming an owner authorization code (with car buttons)

1. Disarm security system.
2. Switch ignition Off, if it is On, then press service button 7 times.
3. Switch ignition On.
4. 7 LED flashes of service button and 7 siren sounds will follow.
5. Then 2 LED flashes of service button and 2 siren sound signals will follow, confirming entry into Registration mode.
6. Enter the owner authorization code using car OEM buttons with a pressing interval no more than 3 seconds. Every button pressing should be followed by a single service button LED flash. The owner authorization code consists of a code sequence containing from 3 to 30 OEM buttons pressing. The list of supported OEM buttons is available at **can.starline.ru**. If a service button LED flash does not follow after pressing of OEM button, so this button is not supported for this car.
7. In 3 seconds after the code entry 2 short LED flashes and 2 siren sound will follow, confirming the code successful registration.
8. Enter the owner authorization code again.
9. If the code is recorded properly, 2 LED flashes and 2 short siren sound will confirm. If the code recording is failed, so 4 short siren sounds will follow, in this case repeat steps 6-8.
10. In 10 sec switch ignition Off to exit the Registration mode.
11. An exit from Registration mode will be confirmed by double LED flashes and siren sounds and then additional signals in amount of total registered tags, keys and smartphones will follow.
12. Write down and memorize this entered Authorization code.