User Manual

General

StarLine BP-06 module performs automatic temporary disabling of a factory RFID (Radio Frequency Identification) system during automatic remote start. RFID system is used on most modern vehicles.

RFID transponder is built in factory ignition key and it’s code is automatically requested while each engine start by means of original key.

But it prohibits a remote engine start without original key available. StarLine BP-06 module automatically transmits an original transponder ID to the factory immobilizer antenna on the moment of remote start is engaged.

> StarLine BP-06 operates with StarLine security systems having firmware version L2 and later, and also with StarLine X96, M96, A96, B96, E96, S96 series

Delivery set

- module
- frame antenna with connection cable
- loop antenna
- communication cable
- power output cable for Smart Key
- installation manual

Installation

StarLine BP-06 operates with a spare original car key.

Mount the module in following order:

- open the module case and put an extra car key inside with transponder inside the planar antenna, fix it to prevent of moving
- connect the cables to the corresponding connectors on the module board
- shut down the module case
- fix the module into the hidden secured place inside a car interior
- connect the module wires according to the connection diagram

Connection

Red wire — power positive wire, connect to a permanent sourse of +12V power.

Black wire — «ground».

Violet wire — transmitter of a serial digital interface.

Violet - yellow wire — receiver of a serial digital interface.

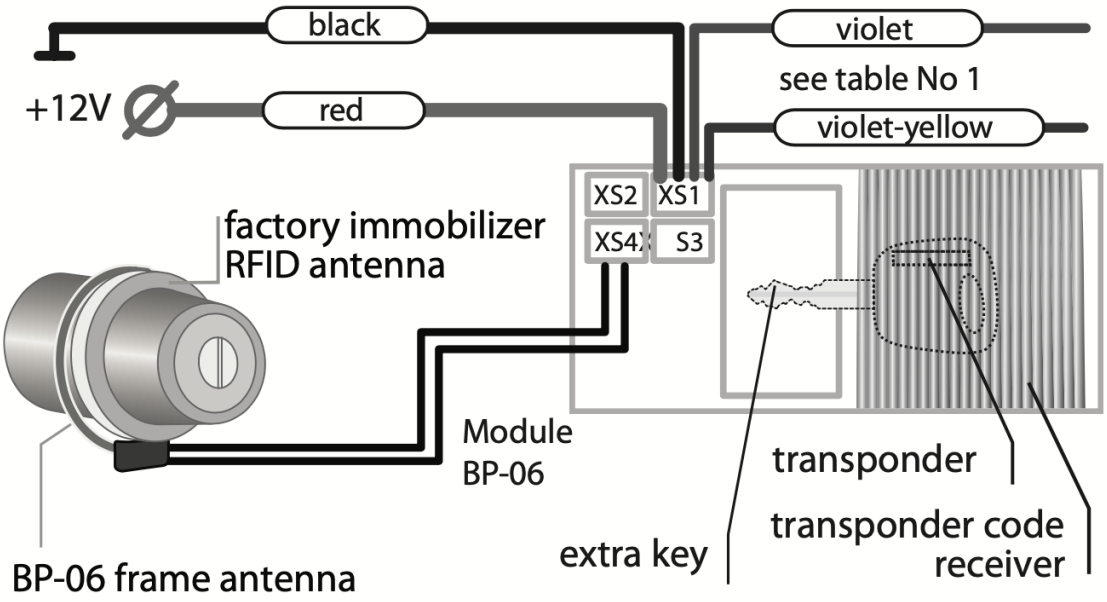
Connection of **violet** and **violet-yellow** wires to StarLine security system connectors is listed in Table No. 1

Table No 1

Wires BP-06	StarLine main unit connector				
	StarLine X96	StarLine M96	StarLine A96, AS96, B96	StarLine S96, E96	StarLine A93, A63, A39, A36
Violet	XS3	XS1: violet	no need connect		
Violet - yellow		XS1: violet - yellow	X3: pink	X1: pink	X3: pink

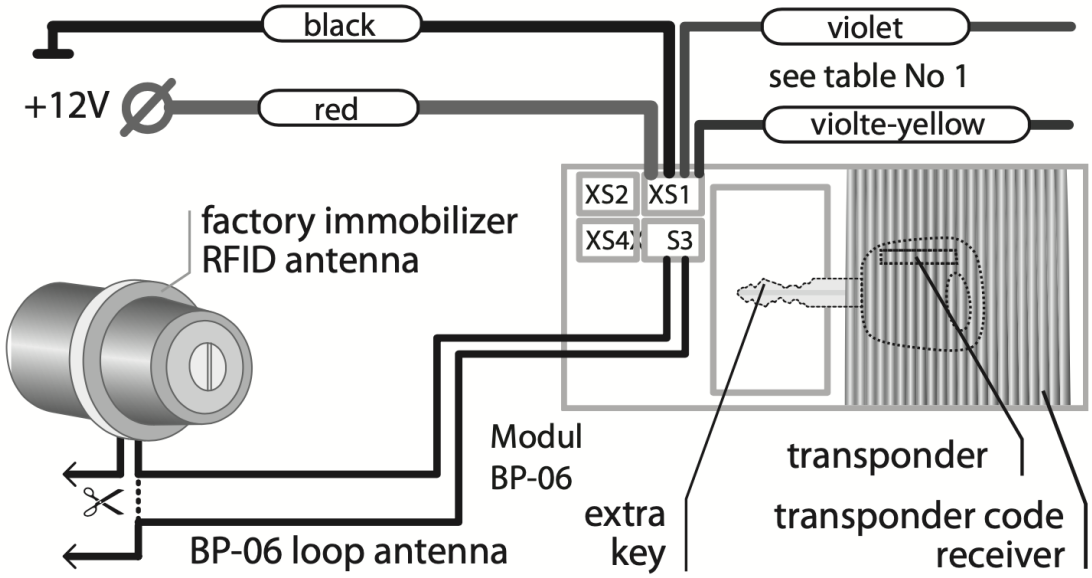
Connection diagram 1

Fix the outer frame antenna around the ignition lock cylinder and connect it to XS4 socket on the module board. It is important to keep the shortest possible distance between a factory FRID antenna and BP-06 antenna.



Connection diagram 2

The connection method is recommended in case of a weak signal of factory transponder key. Connect the loop antenna to XS3 socket of the module board, cut the loop in the end and connect the wires into the cut of wire circuit of a factory immobiliser antenna. The frame antenna of the module is not used in this connection method.

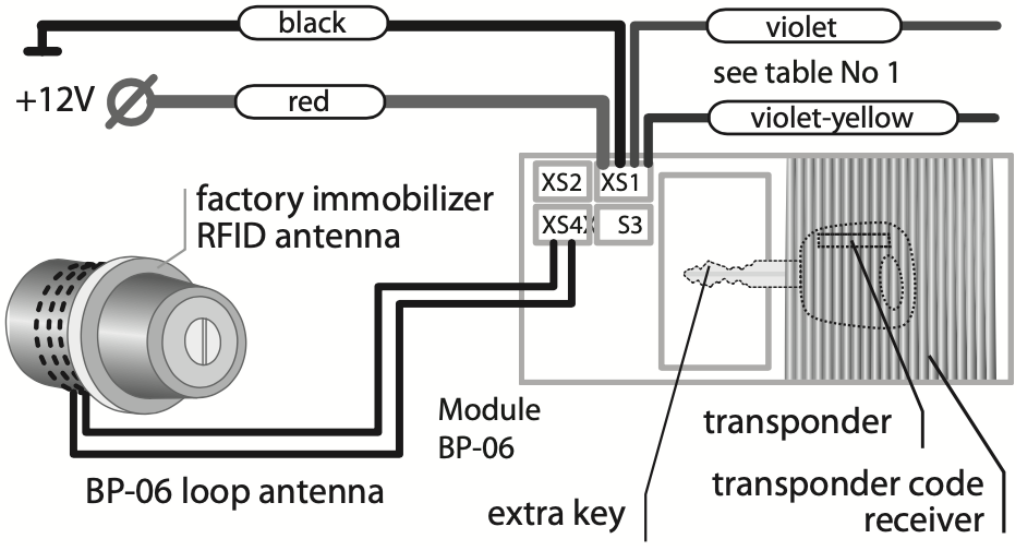


Connection diagram 3

The connection method is recommended in case of difficulties in mounting the frame antenna around an ignition lock cylinder in some vehicles. Reel the loop antenna around a factory

RFID antenna on ignition lock cylinder.

Important to keep the shortest distance between factory RFID antenna and **BP-06** loop antenna. Connect the loop antenna to XS4 socket of the module board.

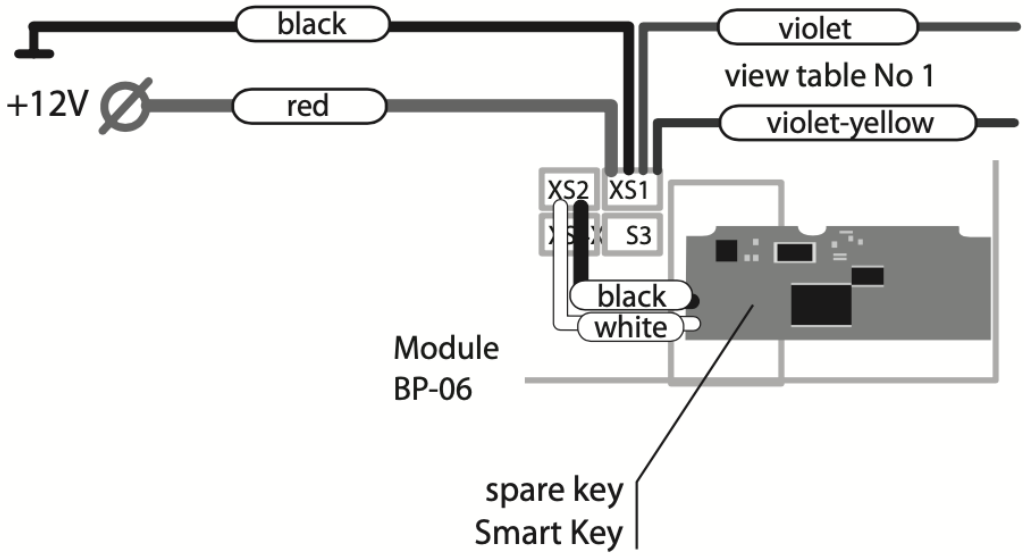


Connection diagram 4

Module has + 3.3V power output for Smart Key power supply. Remove a battery from factory key and solder the module output wires to the battery power pins on a Smart Key circuit board:

- white — to positive contact
- black — to negative contact

If a key does not fit the module slot, so remove a key circuit board and mount it inside module.


black
violet
+12V
red
view table No 1
violet-yellow
XS2
XS1
S3
black
white
Module
BP-06
spare key
Smart Key