

STEALTH

—IMMOBILISER—



INSTALLER MANUAL

Before attempting to operate the Stealth Immobiliser, please ensure you have read the instructions properly

STEALTH IMMOBILISER – INSTALLER MANUAL

The Stealth Immobiliser is a sophisticated device developed to protect the car from all known ways of theft. This digital CANBus immobiliser helps protect your car from theft, key cloning, keyless range extension, learning vehicle keys, hacking the key code from the vehicle key, and even stealing the owners key.

The Stealth Immobiliser is a digital immobiliser that protects the vehicle through blocking its mobility by sending the appropriate commands to the vehicle e.g. ECU and/or BCM controllers. The code blocking can be done by both CAN Buses or LIN BUS (see the appropriate installation diagrams). It's also possible to block the engine using an analogue cut with a relay (1A load). The immobiliser is disarmed by entering a previously set code using the existing buttons in the car (PIN code).

The PIN code can be reset by setting the 5-digit program number for the vehicle again.

The Stealth Immobiliser can be connected to an external car alarm system as an additional layer of security. It can also provide extra security in vehicles with keyless entry. If the immobiliser is connected to an external system, such as a GPS/GSM tracker, remote immobilisation from this device will take priority over the PIN code immobilisation from the Stealth Immobiliser. Unlike other car security systems, the Stealth Immobiliser can also be installed on electric cars, motorcycles and trucks. (See compatibility list)

The Stealth Immobiliser can be disarmed by the PIN code. When the immobiliser is armed, there are few possible ways of protecting the vehicle from theft (depending on the car model, engine type, and fittings):

Engine start lock – Engine will not start until pin code is entered.

Engine shutdown – it's possible to start the engine, but it stops when the thief attempts to drive the vehicle away. For vehicles with automatic transmission, the engine stops when the gear stick is moved from the P position. For vehicles with manual transmission, the engine stops when the clutch pedal is pressed.

Driveway Lock – the Stealth Immobiliser allows you to start the engine, but you are not able to drive away.

Ignition Lock – The Stealth Immobiliser stops the ignition from turning on unless pin code is accepted

*As an authorised dealer you will have access to all the supported vehicles and associated diagrams.
You will have access to these once approved and given your login details.*

The step-by-step installation procedure

- 1) Connect the GROUND brown wire,
- 2) Then connect + 12V red wire,
- 3) Set the 5 digit program number found in the diagram schemes, using the PCB button and LED (see: setting the 5-digit program number); the program number can also be set using the firmware programming tool and appropriate interface cable,
- 4) Connect CAN L,
- 5) Connect CAN H,
- 6) Connect also LIN1 (if requested),
- 7) Set the PIN code to be used when disarming the immobiliser.

ATTENTION! Do not use the power supply from the OBD port.

The Stealth Immobiliser can only communicate with the CAN bus when it's properly connected and transmission has been established, i.e. the LED on the main unit flashes. Always connect all wires indicated in the connection diagram. Disconnecting the device or cutting the + 12 V power wire will prevent the device from working effectively. The installer should always inform us of where the device is installed using the installation form in the dealer portal.

ATTENTION! After setting the program number and installing the device, the immobiliser will not block the car, if the PIN code has not been set. The PIN code must be set for the immobiliser to block the car.

The Stealth Immobiliser can work with any AVL (Automatic Vehicle Location) device equipped with an active output. Connecting the device to a GPS/GSM tracker enables remote immobilisation. An external constant GND on PIN6 in the device immobilises the vehicle whether or not the immobiliser has previously been disarmed with the PIN code. This method of immobilisation works even in service mode. If PIN6 is grounded while the vehicle is in motion the immobilisation will occur after the vehicle has stopped and the ignition is switched off.

For safety reasons, the brown wire which can arm the immobiliser remotely, is not plugged in the connector. If for example a tracking device with a corresponding output is installed, the enclosed brown cable must/can be plugged into PIN 2.

Setting the 5-digit Program number dedicated for a particular vehicle

The main unit's LED and switch (the one located closer to the connector) allows you to enter the correct program number for the vehicle. The program number can be found on the list of vehicles supported by the Stealth Immobiliser and is shown in the "connection diagram scheme".

Press and hold the button until the LED starts to flash, then release the button; the LED will start counting (from 1 to 9) to indicate the first digit of the five-digit program number.

To program the first digit press and hold the button after the correct number of flashes until the LED starts to flash again, then release the button.

Program the next digits of the program number in the same way.

The LED will flash 10 times after programming is completed successfully. Then the device will restart, which is signaled by a double flash of the red LED.

For example – We set the pin for a particular vehicle with a program number of 2-1-1-4-2

- 1) Press and hold the program button,
- 2) Release the button and count 2 led flashes,
- 3) Once you have counted 2 flashes press and hold the program button again (do not let go at this point)
- 4) 1st digit is now set,
- 5) To set the 2nd digit let go of the program button and start count of flashes again,
- 6) We count 1 led flash and press and hold the program button again,
- 7) Repeat above steps till you have completed all 5 digits,
- 8) Now you can let go of the program button,

Checking the program number

Press the button briefly, the LED of the device will flash out the 5-digit pre-set program number and then the connection status of the 6 connected CAN Buses (even if the device is connected only to 2 CAN Buses).

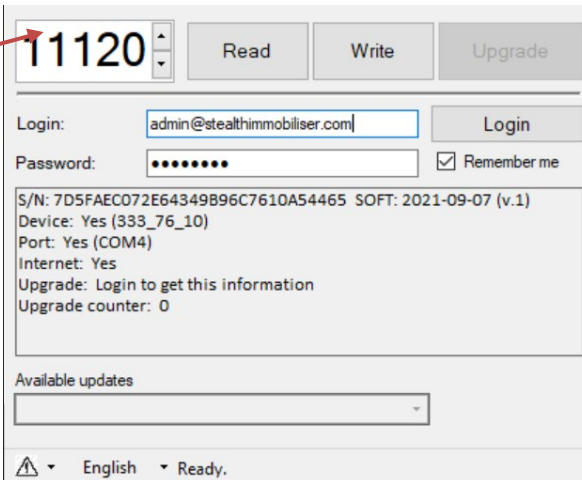
The number of flashes indicates the status of 6 CAN Buses:

- 1 flash – CAN is connected or has already been connected but does not receive any data at the moment (i.e. the CAN BUS is in sleep mode).
- 2 flashes – CAN is connected and is receiving data at the moment.
- 3 flashes – CAN is disconnected, but requires connection.
- 4 flashes – CAN is not supported, no connection required.

Setting the program number using the firmware software

It may well be easier to add a program number to each device using the firmware programming tool. Once device is connected to the programmer you can login and enter the program number in the device.

Enter vehicle program number here and click write



The screenshot shows a software window for setting a program number. At the top, there is a numeric input field containing '11120', with 'Read', 'Write', and 'Upgrade' buttons to its right. Below this is a login section with 'Login:' and 'Password:' labels, input fields for 'admin@stealthimmobiliser.com' and a masked password, and a 'Login' button. A 'Remember me' checkbox is also present. The main area displays device information: S/N: 7D5FAEC072E64349B96C7610A54465, SOFT: 2021-09-07 (v.1), Device: Yes (333_76_10), Port: Yes (COM4), Internet: Yes, Upgrade: Login to get this information, and Upgrade counter: 0. At the bottom, there is an 'Available updates' dropdown menu and a status bar showing 'English' and 'Ready'.

We advise all devices are updated for each new install. It may well be the scheme has had an update or some changes to the diagram. Updated schemes and diagrams will not function correctly if the device has not had a firmware update.

Setting the PIN code used to disarm the immobiliser

The list of buttons available to use for the PIN code in a particular vehicle can be found on the respective connection's diagrams.

To set the pin for the first time please follow the steps below

- 1) Enter vehicle and make sure all doors are closed
- 2) Turn on the vehicle's ignition
- 3) Press the accelerator gas pedal 10 times (indicator should flash twice and is now in programming mode)
- 4) Press the button combination you wish to use (*If you are an installer, we recommend using a 1 digit pin code to test everything is working correctly*)
- 5) Switch off the ignition within 10 seconds of the last button press. 1 indicator flash will confirm the successful saving of the button combination. If indicator does not flash, then pin code has not been accepted and try again. Some vehicles won't support certain buttons given in the diagram schemes. This depends on the country's car production.

If the ignition is not switched off within 10 seconds after the last button press, the switches pressed are ignored and not saved.

RHD vehicles

In some particular vehicles the immobiliser may not arm when driver side door is open on RHD vehicles. It may be a case where it immobilises only when the passenger door is open.

This seems to happen often with Mercedes models. Simply swap the doors in the program.

To do this, enter the program number for that particular car, then enter program number 11981.

13636

Read Write Upgrade

Login: admin@stealthimmobiliser.com| Login

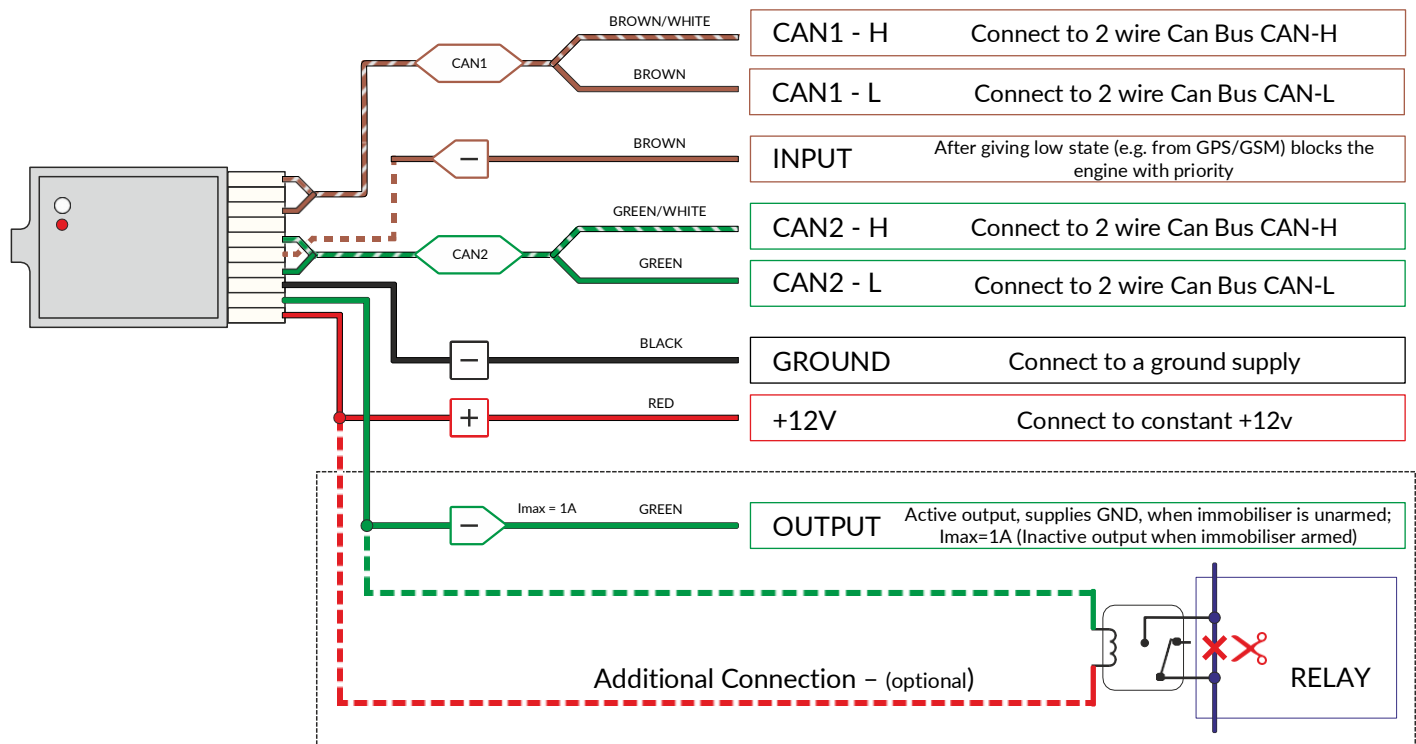
Password: ☒ Remember me

S/N: 7D5FAECO72E64349B96C7610A54465 SOFT: 2022-05-09 (v.1)
Device: Yes (333_76_10)
Port: Yes (COM4)
Internet: Yes
Upgrade: The device has the latest firmware
Upgrade counter: 1
Additional functions: 11981

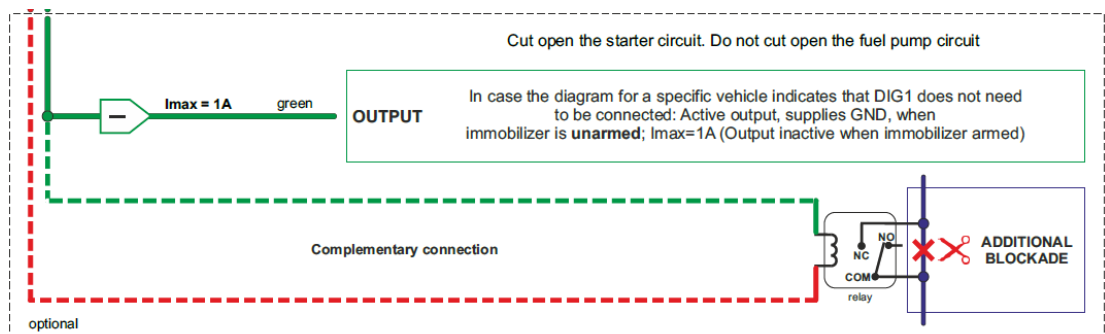
Available updates
333_76_10 ver.01 2022-05-09

⚠ English Ready.

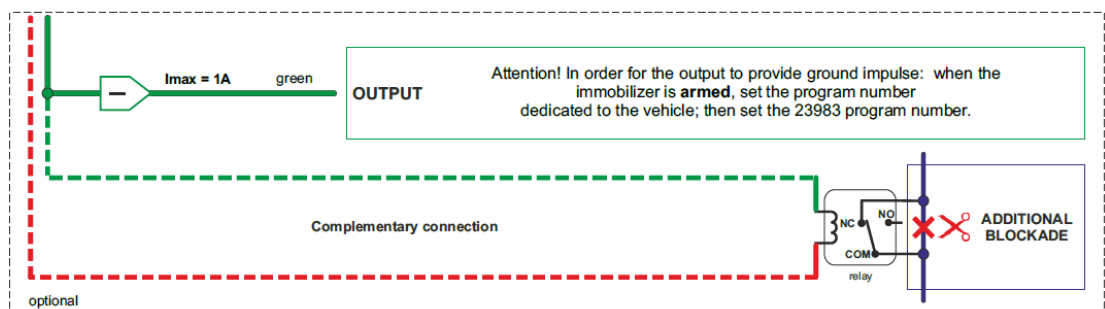
Doors swapped to
RHD using additional
functions: 11981



RELAY CONNECTION TYPE



OR





Stealth Immobiliser Limited
United Kingdom
enquiries@stealthimmobiliser.com
www.stealthimmobiliser.com

