

AUTO
WATCH
GHOST-II
OWNERS MANUAL

SMART VEHICLE PROTECTION

***Security Guaranteed or your money back!**

General information

The Autowatch Ghost-II is the next generation of the ground-breaking Ghost immobiliser. The Ghost-II has an innovative mechanism of engine lockout that uses the data network on the vehicle so that there is no additional wiring that can be easily found. Disarming the Ghost-II can be done using a disarm sequence on the standard vehicle buttons, just like the original Ghost.

The Ghost-II adds another layer of convenience by allowing two smartphones and two key-fob tags to disarm the Ghost-II.

The Ghost-II cannot be found using normal theft methods as it has no LED's or buttons giving away its location. Moreover, due to the use of the latest micro-manufacturing techniques the Ghost-II is small enough to hide almost anywhere in the vehicle.

The Ghost-II is the new smart way to protect your vehicle.

- Disarm sequence – this is the unique sequence of button presses you choose and program into the Ghost-II that is used by you to disarm the system and allow you to drive.
- Indication signal – on all Ghost-II installations there is deliberately NO dash mounted flashing LED. Instead we use a model specific dash warning light. Most commonly the left and right indicator signals unless otherwise detailed by the installer.
- Learn mode – The mode to enter to change various aspects of the Ghost-II like the disarm sequence, or to pair phones or fobs.
- Service button – a single button is defined for each vehicle that is used to put the vehicle into service / valet mode.

Write down your service button information here:

Here are a few things that will be helpful in making sure your experience with the Ghost-II is hassle free.

- For those vehicles that the Ghost-II can stall the engine, it may be possible to start the engine before entering the disarm sequence. In this case your vehicle will either, (1) not be able to move out of Park, (2) the engine will stall if the gear selector is moved from Park or, (3) the engine will stall if your vehicle moves backwards or forwards.
- The Ghost-II automatically returns to the armed state after 3 to 30 seconds with your vehicle ignition off, this timing is vehicle dependant.
- Wait for the double flash on the indication signal before either starting (on start inhibited cars) or changing gear (gearbox lock or stall vehicles).
- If at any point you get confused or enter the wrong disarm sequence, simply switch off the ignition and wait 10 seconds. After this follow the normal disarming procedure.

Normal operation

Entering the disarm sequence

When you take delivery of your vehicle with the Ghost-II installed; the professionally trained installation team will have set a default disarm sequence for you. This is generally simple and, for your security, should be changed as soon as possible after delivery.

To enter the disarm sequence follow these simple steps:

1. Switch on your vehicle's ignition. If the immobilisation is not starter inhibit then it may be possible start the engine at this step.
2. Press each button in the disarm sequence in the correct order. Whilst getting used to the process it is advantageous to do each press firmly and deliberately.
3. Wait until the indication signal flashes twice before starting your vehicle.

Should the code not be accepted after the first attempt simply wait 5 seconds and try again.

If this does not work then turn off the ignition, wait 10 seconds and start again at step 1.

Using a smartphone or key-fob

If you have paired a smartphone or key-fob with the Ghost-II, you do not need to enter the disarm sequence to disarm the Ghost-II.

The Ghost-II will detect the smartphone or key-fob and flash the indication signal twice as soon as the ignition is switched on and allow you to drive your vehicle.

Do not leave the key-fob or smartphone in the vehicles as this will leave the Ghost-II disarmed.

ATTENTION! Should you misplace a paired smartphone or key-fob it is advisable to clear all pairings. Once this is done the remaining or replacement smartphones and key-fobs will need to be re-paired with the Ghost-II. Details on these procedures are given in this manual.

Service/valet mode

Your Ghost-II has a service/valet mode whereby you will not require the disarm sequence to be entered before starting or driving your vehicle. This is used when the vehicle is being serviced or valet parked.

Note: This mode is not meant as a permanent override and will automatically exit when the vehicle exceeds a speed of 32 mph (50 km/h) and continues to drive for a period of 15 minutes. After this the Ghost-II will need the disarm sequence before the next start attempt. When exiting service/valet mode the signal indication will flash twice and the Ghost-II will rearm once the ignition is switched off.

To enter service/valet mode simply enter the disarm sequence as normal. Once the indication signal flashes twice press the service button 5 times. The indication signal will flash 5 times to confirm that your Ghost-II is now in service/valet mode.

To manually exit service/valet mode simply enter the disarm sequence at any time while the ignition is switched on.

NB, The Ghost will not exit from service mode whilst in proximity of any paired phones or fobs.

Hint: Activate service mode at the end of the drive to the service centre to ensure it is enabled correctly.

1. Normal procedure:

- a. Switch on your vehicle ignition.
- b. Enter the current disarm sequence (**DO NOT START THE ENGINE!**). Press and hold the accelerator pedal to the floor.
- c. Enter the current disarm sequence again.
- d. The Ghost-II will now be in learn mode; the indication signal will flash every 3 seconds to confirm this. You may now release the accelerator pedal.

Changing the disarm sequence

Before changing the disarm sequence, here are some important things to consider and remember.

- You need to know which buttons of your specific vehicle can be used for the disarm sequence.
- During the learn procedure, each press of a button in the disarm sequence must not be more than 2 seconds apart.
- Each press will be confirmed by a single flash of the indication signal – on some vehicles this can be difficult to determine as the indication signal flash is not fast enough to notice the gap between flashes.
- Some buttons are only active 2 to 5 seconds after the ignition is switched on.
- Some buttons require a long press (1 second) before activating.
- The disarm sequence must be between 4 and 20 button presses long.
- Most buttons can be repeated.
- Your service button cannot be used more than 4 times in a row in the disarm sequence.

Before you start the Learn process, plan the disarm sequence so that there is no hesitation whilst trying to learn it into the Ghost-II.

1. Your vehicles ignition will be switched on following one of the ways to enter learn mode as described on page 9, the indication signal will be flashing once every 3 seconds.
2. Enter the new disarm sequence
3. Wait for 3 flashes of the indication signal.
4. Enter the same new disarm sequence again.
5. Wait 2 seconds
6. If the new disarm sequence has been correctly entered and accepted the indication signal will flash twice. If the new disarm sequence was not correctly entered the indication signal will flash 4 times.
Switch off the ignition and start the process again.

Information: If the indication signal flashes more than 4 times or in 2 double flashes that means the same disarm sequence was learned in. This process deletes all smartphone pairings from the Ghost-II.

Smartphone application

Your Ghost-II can connect to our unique smartphone application using Bluetooth Low Energy (BLE version 4.0 upward). The Ghost-II can connect to two smartphones. When connected to this application you can simply get in your car and drive away without entering the disarm sequence. The smartphone / Ghost-II communication is entirely encrypted and uses a unique code for every unit, so that nobody can copy or take control of your Ghost-II. You can find the app by searching “Autowatch Ghost-II App” in iTunes or the Google Play Store.

Connecting your Ghost-II to your smartphone

Once you have installed the Ghost- II app from your app store.

Follow these steps to create the connection.

You will need your Autowatch owner’s card that shows both your Bluetooth and emergency codes. Along with the disarm sequence for the vehicle. You will also need to know what the service button is, (this should be written by the installer in your owner’s manual on the bottom of page 3. If the installer does not write this in the manual, ask them what it is, and make a note of it.

1. Turn on the ignition of the vehicle and **DO NOT** start the engine
2. Enter your disarm sequence and wait for the indication (double flash or double bleep)
3. Hold down the accelerator pedal/or alternative – (on some vehicles it could be pull and hold the main beam lever), whilst holding re-enter your disarm sequence and wait for the learn mode flashes.
4. Keep the accelerator or alternative pressed until you receive the “Learn Mode” indication, this is flashes or bleeps once every 3 seconds.
5. Release the accelerator (or alternative) now press the service button once.
6. Open the Autowatch Ghost-II app in the top right hand corner, press the “+” symbol button to start pairing.

The app should now prompt you to enter your Bluetooth pairing number, you may need to scratch off the Bluetooth pairing number on the back of the owners card.

Once you have entered the code and pressed pair you will receive a double flash/bleep confirmation from the vehicle you can now return to the main screen on the app and turn off the vehicle. Simply tap the key symbol

so that it turns orange and your phone can now be used to authorise the system. Once the vehicle is turned on you will automatically receive the double flash indication to confirm the Ghost-II has been dis-armed.

Connecting key-fobs

To connect a new key-fob to the Ghost-II follow this procedure:

1. Remove the battery from the new key-fob
2. Switch on the ignition **DO NOT** start the engine
3. Disarm by entering the disarm sequence
4. Put the Ghost-II into key-fob learning mode
5. Press and hold the accelerator to the floor (or specific vehicle alternative)
6. Re-enter the disarm sequence to enter disarm sequence change mode (indication signal will flash once every 3 seconds)
7. Release the accelerator pedal
8. Press the service button twice the device will enter the Key-fob Pairing mode
9. Push and hold the button down on the key-fob board, (without the battery inside)
10. Insert the battery whilst still holding the button down on the key-fob board, once the battery is inserted release the button. The LED should flash

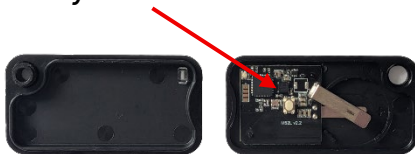
red every second. You need to wait up to 30 seconds for the pairing to be done.

11. Once the key-fob and Ghost-II have completed the learning process the LED will long flash green and stop flashing red. The vehicle indication signal will flash twice to confirm

Note:

If you have the smaller key-fob (GI5), the LED will “flash green” and “long flash red”.

GI5A key-fob



GI5 key-fob



Check that the key-fob is working correctly by switching off the ignition and removing the vehicle key. Wait for 15 seconds and switch on the ignition. If the key-fob is working correctly the indication signal will flash twice to confirm disarm.

If the learning process does not work the key-fob LED will continue to flash green for 30 seconds. Simply start the process again.

Smartphone: SETTINGS - BLUETOOTH -

DEVICES - GHOST - DELETE CONNECTION (PAIRING)

Vehicle: follow the disarm sequence change process and change the disarm sequence to the current disarm sequence (in effect, you will enter the disarm sequence a total of 4 times)

Key-fob management

Deleting key-fobs

If you have lost a key-fob and suspect it may still be active, it is advisable to delete the key-fob from the Ghost II. To do this follow this procedure on the vehicle:

1. Complete the disarm sequence change process but do not change to a different disarm sequence, rather enter the current disarm sequence. This is confirmed with multiple flashes after the 4th disarm sequence entry. (This will also delete all smartphone connections. These connections will have to be redone after this process is completed).
2. Do not switch off the ignition
3. Press the service button 10 times within 10 seconds of the disarm sequence change process completion.

The indication signal will flash twice to confirm that ALL key-fobs have been removed.

ATTENTION: This process will delete all smartphone and key-fobs from the Ghost-II you will have to manually add all smartphones and key-fobs one at a time.

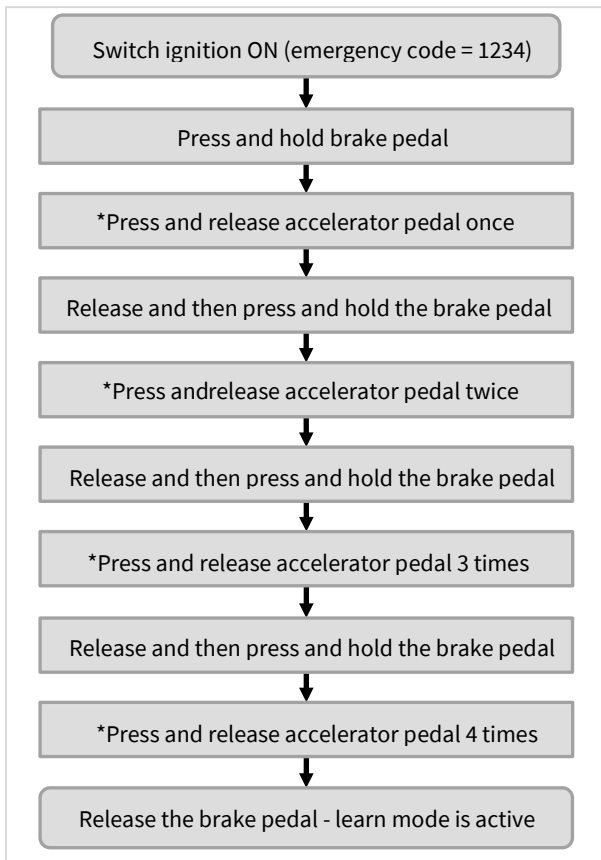
Emergency code procedure: - This is used if the disarm sequence has been forgotten or a button is no longer working.

- a. Locate your emergency 4 -digit code. This is found on your Ghost-II owners' card behind the scratch off security protection panel.
- b. Switch on your vehicle ignition.
- c. Press and hold the brake pedal.
- d. Press the accelerator to the floor or alternative, and release it again, repeat as per digit of the emergency code.
- e. Release the brake pedal.
- f. Repeat b,c,d for the remaining 3 digits – see flow chart on the next page for an example for an emergency code 1234.
- g. The Ghost-II will now be in Learn mode; the signal indicators will flash every 3 seconds to confirm this.

Note: Once the emergency code is used you will be able to start and drive the vehicle without entering a code or learning a new code.

Information: On certain vehicles the accelerator pedal is not possible to read on the CAN data network. If this is the case it will be replaced by an alternative. This should be noted by the installer on page 3 of this manual.

However most often the alternative is the high beam stalk (hold towards the driver's seat) or hazard warning switch (press and hold, ignoring indicator flashing).



*Accelerator or High beam stalk

NOTES:

Accelerator or high beam:
Service button:
Buttons available:
Vehicle specific notes:

Technical specifications

Ghost-II

Standby current consumption (max) 8 mA

Operating voltage 6-15 V

Bluetooth key-fobs

Radio frequency 2.4 GHz

Battery type CR2025

Battery life (estimate) 6 months

Warranty

Autowatch UK warrants this product to the original consumer purchaser to be free from defects in workmanship and material warranty does not apply to any product which has been damaged by accident, physical or electrical abuse, improper installation, any use contrary to its intended function, unauthorised service (i.e. service by anyone other than Autowatch UK or its authorised agents'/service personnel), fire, flooding, lighting, or other acts of god.

Indemnity

Autowatch UK limited shall not be responsible for any removal and/or installation charges, damage to or the theft of the vehicle or its contents, or any incident or consequential damages caused by any failure of the product to function properly. Under no circumstances should this warranty, or the product covered by it, be construed as an insurance policy against loss. Autowatch UK neither assumes nor authorises any persons or organisation to make any warranties, nor does it assume any liability in connection with the safe installation or use of this product. This the complete Autowatch UK warranty and no other warranty exists.

*Ghost-II Security Guarantee

New Smart Vehicle Protection – Guaranteed Security or your Money Back! The Autowatch Security Guarantee is applicable to the Ghost-II when installed on a vehicle. If in the unlikely event a vehicle that has a Ghost-II installed in it, is stolen and not recovered within 2 months, we will refund the owner of the vehicle for the full amount they were charged to have the Ghost-II installed. This guarantee is subject to the following terms and conditions listed below:

- 1) Car must belong to the person that paid to have the Ghost-II installed into the vehicle. This guarantee is not transferred to a new owner when the car is sold on. The guarantee is valid for as long as the original owner owns the vehicle and the Ghost-II remains in the vehicle to which it was first registered.
- 2) The installation of the Ghost-II must be registered with us.
- 3) If a claim is made the following information must be provided before the money will be refunded:
 - a. Installation invoice must be provided
 - b. Police reference number must be provided as proof that the theft has been reported.
 - c. If the customer has insurance theft cover, proof that the Insurance Company has paid out because the vehicle has not been recovered.
 - d. Proof of ID
 - e. Proof of vehicle ownership – copy of the V5.
 - f. Payment will be done 2 months after the reported theft to ensure the vehicle has not been recovered.



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