

H P S 8 4 0 N E W ( H )

*C A N B U S*  
*C A R A L A R M*

## ***Operation***

### ***ALARM SYSTEM ARMING***

Push the CLOSING button of the remote-control. The arming will be confirmed by:

- Blinker flashings based on the lock features of the vehicle.
- 2 beeps (if it is programmed).
- Switching ON of the LED on the dashboard (after 10 seconds, it signs the inhibition status of the alarm with continuous flashing) .
- Activation of electric engine immobilization (if it is connected).
- Activation of modules output (windows lifter, ultrasonic sensors, etc.), if the alarm is added with them optional.
- The CDL closes the doors.



### ***ALARM SYSTEM DISARMING***

Push the OPENING button of the remote-control. The disarming will be confirmed by:

- 1 beep, if it is programmed.
- Switching off of the LED on the dashboard.
- Deactivation of electric engine immobilization.
- Deactivation of modules output (windows lifter, ultrasonic sensors, etc.).
- The CDL opens the doors.

## ***Neutral Time and Status of Alert***

After you switched ON the alarm with the default (OEM) remote control, the alarm will stay for 10 seconds into "neutral time" condition, signalled by the fixed light of the LED. After 10 seconds (from end of neutral time), another flashing of the blinkers and the flashing of the LED of the dashboard will indicate that the system supervises the vehicle and is ready to signal the alarms.

## ***Alarm***

In case of attempt to brake in, the system will emit an optic-acoustic signal (flashing of the blinkers and sound of the horn) or a sound of the siren (if installed) for 30 seconds repeated.

To stop the alarm signalling, push the OPENING button of the remote control.

## ***Automatic re-inhibition***

If you switched OFF the alarm with the default remote control of the vehicle, but the doors didn't open, within 15 seconds the CDL closes back automatically the doors, and in the meantime the alarm switches ON.

**Warning! In those cars, in which there isn't automatic CDL closing back function, ask the installer, that program the automatic re-inhibition function of the alarm! If it is programmed, the automatic re-inhibition function of the alarm will operate, but only the alarm switches ON, the CDL don't close!**

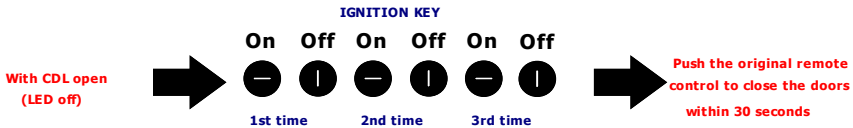
## ***Exclusion of Siren***

Through the ignition key it is possible to exclude the horn or the siren function.

With disarmed alarm (CDL opened), turn ON and OFF the ignition key for 3 times and, within 30 seconds, push the original remote control to close the CDL of the vehicle.

By this time the central unit will signal the attempt to brake in by the flashing of the blinkers only.

**Warning! The exclusion of the siren is valid for only one cause of trigger. If you switch OFF the alarm with the remote control, the alarm will be restored automatically in the original state, and for the next switching ON it will react with beep and acoustic signals for every cause.**



## ***Ultrasonic exclusion***

This function is important, if optional ultrasonic or other interior protecting module were added to the alarm! This function is, that in the passenger cab person or animal can stay in armed alarm case too, without that the interior protection (for example: ultrasonic) would result triggering. In active status of the function the interior protection will be excluded, but other protecting functions of the alarm are active. With help of the ignition key it is possible to exclude the ultrasonic sensor.

With disarmed alarm (CDL opened), turn ON the ignition key 4 times, then turn OFF the ignition key, and within 30 seconds close the CDL with pushing of the default remote control.

By this time the interior protection will be excluded, and it is possible to move in the passenger cab.

**Warning! The ultrasonic exclusion is valid for only one triggering cycle! If you switch OFF the alarm with the default remote control, the system automatically will be in original status, and for the next switching ON the ultrasonic sensor operates too!**

### ***Memory of Alarm***

If the central unit records one or more causes of alarm, they are signalled, when disarming, through the LED. The installer can read out the triggering causes with help of the computer from the alarm main unit. To verify the type of alarm, check the number of flashings of the LED with the table below.

<b>N. flashings of the LED</b>	<b>CAUSE</b>
<b>1</b>	DOORS OPENING
<b>2</b>	MECHANICAL KEY ON THE DRIVER' SIDE
<b>3</b>	BONNET OPENING (ONLY, IF IT OPERATES WITH CAN-BUS SIGNAL!)
<b>4</b>	REAR DOORS, TRUCK (ONLY, IF IT OPERATES WITH CAN-BUS SIGNAL!)
<b>5</b>	IGNITION PROTECTION
<b>6</b>	SHOCK SENSOR
<b>7</b>	OPTIONAL ULTRASONIC INTERIOR PROTECTION (BLUE WIRE INPUT)
<b>8</b>	EXTRA SENSORS OF ALARM (BLUE/RED WIRE INPUT)
<b>10</b>	EXTRA SENSORS OF ALARM (GREEN/BLACK WIRE INPUT)
<b>11</b>	SIGNAL OF DEFAULT ALARM

### ***Safety function***

Door protection	Door, trunk and bonnet open sense
Engine block	Prevent the start of the motor of the door.
Shock sensor	Sense the broke of the door's window.

Ignition protection	Sense the ignition of the car.
Ultrasonic	Option! Sense the moving in the passenger compartment.

### ***PIN code***

The PIN code is for that the user can switch OFF the alarm, if the remote control or the alarm get wrong or the battery discharged.

PIN code emergency switch OFF function of the alarm, dependent on alarm programming, has 3 types operating opportunities, which are the followings:

1. PIN code emergency switch OFF with ignition key (it is the default setting of the alarm).
2. PIN code emergency switch OFF with usage of brake pedal/hand brake (this function can be used after programming of the alarm).
3. PIN code emergency switch OFF on ignition key ON, automatically (this function can be used after programming of the alarm).

**In all boxes of the alarms can be found an envelop, which contains a secret PIN code. Only the user can open this envelop. All alarms have different PIN code! We suggest for the user as for the perfect safety to change the original set PIN code for a new, own one. Please follow the next instructions in the followings chapters.**

**If you have got any further problem in connction of the PIN code, please look for only your importeur!**



Usage of the PIN code is necessary, when the remote control lost, or the battery was flat, or the alarm went wrong, but the device is switched ON status.

Dependent on equipment of the cars, it can be necessary to change the PIN code emergency switch OFF operation, for example in that case, if the vehicle is equipped with "**START & GO**" system, by

this time we suggest to program the alarm for the 2. or 3. emergency switch OFF operating mode instead of the default setting of the PIN code emergency switch OFF function!

Only importer of PATROLLINE and his contracted partners can do the programming of the alarm, because special software and hardware is necessary to it!

### **1. PIN code emergency switch OFF with ignition key (it is the default setting of the alarm)**

The code is a 3-figures number (from firm is: **1-2-3**) and must be composed with the ignition key of the vehicle by following this procedure:

With armed alarm, open the driver side door with mechanical key. The alarm starts trigger, by this time turn ON the ignition key, then turn OFF the ignition key as many time as the first digit of the PIN code. During turn ON the ignition key the LED switches ON, after the first digit you have to wait to switch OFF the LED.

After that immediately turn ON and OFF the ignition key as many time as per the second digit.

After the LED switch OFF, turn ON and OFF the ignition key as many time as per the third digit.

If the procedure was successful, the alarm switches OFF. If the procedure was unsuccessful, the alarm stays in inhibition status, and triggers, by this time you have to restart the PIN code emergency switch OFF procedure from first digit giving of the PIN code.

### **2. PIN code emergency switch OFF with usage of brake pedal/hand brake (this function can be used after programming of the alarm)**

With armed alarm, open the driver side door with mechanical key. The alarm starts trigger, by this time turn ON the ignition key, then push/draw the brake pedal/hand brake as many time as the first digit of the PIN code (the brake pedal/hand brake operate with CAN-BUS signals not in every car types, therefore they can't be used for PIN code emergency switch OFF not in every cars!) During push/draw of the brake pedal/hand brake the LED switches ON, after the first digit, you have to wait to switch OFF the LED.

After that immediately you have to push/draw the brake pedal/hand brake as many time as the second digit.

After the LED switching OFF you have to push/draw the brake pedal/hand brake as many time as the third digit.

If the procedure was successful, the alarm switches OFF. If the procedure was unsuccessful, the alarm stays in inhibition status, and triggers, by this time you have to restart the PIN code emergency switch OFF procedure from first digit giving of the PIN code.

### **3. PIN code emergency switch OFF on ignition key ON, automatically (this function can be used after programming of the alarm)**

With armed alarm, open the driver side door with mechanical key. The alarm starts trigger, by this time turn ON the ignition key, then the transponder identifies the default key, and through the CAN-BUS network, the alarm switches OFF automatically.

#### ***Modification of PIN code***

The modification of the PIN code is necessary if the client want to modify the default PIN code.

#### **Warning! We suggest to the user to modify the default PIN code.**

You may customise the factory pre-set release pin code (1-2-3) just following the herewith procedure, alarm disarmed:

Turn ON and OFF the ignition key as many time as per the first digit of the PIN code. The LED switches ON when you turn ON the ignition key and after the first digit you have to wait to switch OFF the LED. After then immediately turn ON and OFF the ignition key as many time as per the second digit.

After the LED switch OFF, turn ON and OFF the ignition key as many time as per the third digit.

After that the LED flashes some times. Turn ON and OFF the ignition key as many time as per the first digit of the PIN code while the LED flashes. The LED switches ON when you turn ON the ignition key and after the first digit you have to wait to switch OFF the LED. After then immediately turn ON and OFF the ignition key as many time as per the second digit.

After the LED switch OFF, turn ON and OFF the ignition key as many time as per the third digit.

If you succeed, the quick flashing of the LED on the dashboard confirms that **the new secret code** has successfully substituted the old one.

If PIN code function of the alarm was programmed for brake pedal/hand brake mode, you have to do the above procedure on same way, only you have to push/draw the brake pedal/hand brake instead of turn ON/OFF the ignition key!

## Valet function

This function is, that during the service of the vehicle, the operating functions of the alarm are suspension.

Usage of the valet function has, independently from programming of the alarm, 2 types operating opportunities, which are the followings:

1. Valet function with ignition key (it is the default setting of the alarm).
2. Valet function with usage of brake pedal/hand brake (this function can be used after programming of the alarm PIN code emergency switch OFF function)

**1. Usage of valet function with ignition key (it is the default setting of the alarm, this function operates in that case too, if the PIN code emergency switch OFF function is program for 3. operating opportunity, the PIN code emergency switch OFF on ignition key ON, automatically operation):**

### Activation of the Valet function:

Compose, using the ignition key, the **unlocking** code (factory setting 1-2-3). Turn ON and OFF the ignition key as any time as per the first digit of the PIN code. The LED switches ON when you turn ON the ignition key and after the first digit you have to wait to switch OFF the LED. After that immediately turn ON and OFF the ignition key as many time as per the second digit. After the LED switch OFF, turn ON and OFF the ignition key as many time as per the third digit. The LED flashes some times, signed the switching ON of the valet function.

### Deactivation of the Valet function:

Compose using the ignition key the **unlocking** code (factory setting 1-2-3). Turn ON and OFF the ignition key as any time as per the first digit of the PIN code. The LED switches ON when you turn ON the ignition key and after the first digit you have to wait to switch OFF the LED. After that immediately turn ON and OFF the ignition key as many time as per the second digit. After the LED switch OFF, turn ON and OFF the ignition key as many time as per the third digit. After that the valet function will be in switched OFF status.

To remind that the Valet function is active the LED on the dashboard will flash twice at any time one turns on the ignition key.

**2. Usage of valet function with brake pedal/hand brake (this function operates, if the PIN code emergency switch OFF function is program for the 2. operating opportunity, the PIN code emergency switch OFF with usage of brake pedal/hand brake operation):**



**Activation of the Valet function:**

In disarmed alarm case, turn ON the ignition key, and push/draw the brake pedal/hand brake as many time as the first digit of the PIN code (the brake pedal/hand brake operate with CAN-BUS signals not in every car types, therefore they can't be used for valet function not in every cars!) During push/draw of the brake pedal/hand brake the LED switches ON, after the first digit, you have to wait to switch OFF the LED. After that immediately you have to push/draw the brake pedal/hand brake as many time as the second digit. After the LED switching OFF you have to push/draw the brake pedal/hand brake as many time as the third digit. The LED flashes some times, signed the switching ON of the valet function.

**Deactivation of the Valet function:**

Turn ON the ignition key, and push/draw the brake pedal/hand brake as many time as the first digit of the PIN code. During push/draw of the brake pedal/hand brake the LED switches ON, after the first digit, you have to wait to switch OFF the LED. After that immediately you have to push/draw the brake pedal/hand brake as many time as the second digit. After the LED switching OFF you have to push/draw the brake pedal/hand brake as many time as the third digit. After that the valet function will be in switched OFF status.

To remind that the Valet function is active the LED on the dashboard will flash twice at any time one turns on the ignition key.

***Alarm maintenance***

The alarms of our range are based on a very high technology and are characterized by an extreme reliability. Using some shrewdness it is possible make them living longer and working better:

**VEHICLE WASHING:** in case the vehicle has to be washed with some high pressure devices (hydro-jet or similar), it is necessary to protect the alarm before starting the washing procedure. In case of infiltrations of water caused by using the hydro-jet, the warranty will be automatically annulled.

**GENERAL MAINTENANCE:** all the repairing operations to the alarm must be done by PATROL LINE centres; tampering by non authorized staff can compromise the reliability of the device and the safety when the vehicle is going.

## **Declaration of conformity**

This product is in conformity with the:

**E/ECE/324**

**E/ECE/TRANS/505 Regulation No. 116 >> Rev.2/Add.115**

**European Directive**, so it satisfies all the requirements asked about the functionality of the alarm devices, and for the electromagnetic compatibility.

It is necessary to fill in the guarantee located in the box in order to use the guarantee of the device.

The following certification number has to be on the device, that it harmonizes with the conformity.

**E24 116R A-000027**

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Note:



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