Guarantee

Serial N:..
Professional installer:..
Signature:..
Car producer:...
Owner:...

Date of installation:..

Guarantee clauses:
The guarantee consists of free repairs of all production defects, appeared in the guarantee term. Only authorised installers may repair the system. The guarantee clauses don't include damages, caused by bad observing of the specifications. In this case the repair is under payment (not free of charge).

Car alarm system MASTER HUGE

features

* two buttons remote control transmitter
* random code
* four different sounds
* possibility for consequent switching on of chosen sounds
* two security modes
* sensors test mode
* built-in relays for central door lock
* programming time for lock/unlock
* passive activation
* "anti hi-jack" function
* locking in passive activation
* safety reactivation
* door lock on ignition switching
* system disarming by service button
* immobilizer
* long lock

2

13. Exploitation advice.

⇨Before every ignition cut off (taking off the acid battery for recharge or etc.), system has to be set in service mode.

⇨If the transmission range of the remote transmitter is too low battery change is required.

Questions and answers to possible troubles:

Q: What should be done to turn off the immobilizer, if the remote transmitter is lost or broken?

A: Turn the ignition off and press the service button, to enable the service mode. After repairing or replacing of the transmitter, by pressing the service button quit the service mode.

Q: What should be done if the system is in arm mode and the remote transmitter is lost or broken?

A: Enter the car, turn the ignition key on and press the service button. The system is disarmed.

* external(additional) channel for dome-lights and windows
* warning chirps
* current sensor
* pager turning on with warning chirps
* chirp on turning on/off
* double zone shock sensor with electronic adjustment
* possibility for seting of 4 remote transmitters
* input buttons with negative activation
* input for double-zone external sensor
* intelligent current and shock sensor
* ignition cut-off in arm mode
* memory LED
* self-test
* light indication with blinkers
* zone disabling
* system configuration mode
* service mode
* panic button
* report for the number of the set remote transmitters
* programmable functions

MANUAL

1.Remote transmitter.

Remote transmitter with two buttons:
> ⇨ button N1- for arming and disarming
> ⇨ button N2- according to the system mode has the following functions:
>> * panic button
>> * sets special security mode

All functions of both buttons are described in details below.

2. Arm mode.

If the system is in arm mode it protects your vehicle by the ignition cut-off and signalizing by powerful magnito-dynamic siren and blinkers flashing for 30sec. In the following cases:
⇨ car blow (shock sensor)
⇨ doors or hood opening - buttons' protected
⇨ connecting a unit with over 3W power (current sensor)
⇨ ignition switching on attempt

30-sec. alarming cycle can be stopped before time expire by pressing the button N2 on the remote control. In this case stops only the siren, but the system stays in arm mode waiting for one of the above mentioned actions.

mode. In every zone setup the present sensitivity level could be checked. If the second zone sets, on strike the system produces a chirp for activated first zone and a beep for activated second zone.

12. Setting the time interval of the external (additional)channel and long lock time. Here the set time interval is the one for long lock (see p.14) and the additional channel time interval for locking (see p.15). Enter the sensor test mode, press and hold the service button, then press button 1 on the remote transmitter – the system produces a chirp. The time interval between hearing of the chirp and releasing of the service button should be measured and is set as time for the external (additional) channel.

Sensor	Number
First zone of the built-in shock sensor	1chirp
First zone of the external sensor	1beep
Ignition turning on	2
Button activation	3
Current sensor	4
External sensor	6
Second zone of the built-in shock sensor	7

Press the button 2 on the transmitter to quit the sensors test mode. The system produces 3 chirps.

11. Adjustment of the built-in shock sensor.

To adjust the shock sensor first enter sensors test mode (p.10). Press together both buttons 1 and 2. the system produces a sound and turns on adjustment mode of the warning zone. The adjustment is done by buttons 1and 2. As button1 decrease the sensitivity and button2 increases it. By new pressing of both buttons passes to the adjustment of the trigger zone, as the adjustment is done in the same way as the warning zone. By pressing once again of both buttons (N1 and N2) the system goes back to sensors test

After the signalizing is stopped the system ignores the sensors and the second button signals in 5sec. interval.

The system has two security modes conventionally called night and special.

⇨ **"night" security mode**. To set the night security mode press once N1. In confirmation the system produces a chirp and the blinkers flash. In this security mode if the warning zone of the external or the shock sensor is activated the system signalizes by the siren and the blinkers. If any other sensor is activated the system enters the alarm mode for 30 sec.

⇨**"special" security mode**. To set the special mode press consequently N1 and N2 in the following way: press N1 and after hearing a chirp press N2. The system produces a long beep and the blinkers flash. In this mode the system discards the signals coming by the external and the shock sensor (activation by the internal zones of these sensors could be programmed). Such security mode is recommended if a baby, puppy or an old man stays in a car and is reasonable the car to be under security guard.

The two security modes are just conventionally divided and the choice of mode depends only on the user's wish and the situation.

3.Disarm mode.

⇨Disarming by the remote transmitter - press button 1, the system produces

3 chirps. If in arm mode the system is triggered, it indicates in disarming by 3 chirps and flashes of blinkers 4 times.
⇨Disarming by the service button – disarm the system by turn ignition key on and press the service button.

4. Self-test mode.

If one of the two modes is chosen, the system passes through self-test mode. In this mode the system checks for active input to start the siren (except the external sensor). If a button (door or hood) is activated, the system produces a strong beep by the siren and the blinkers flash and will ignore the sensor till its inactivation.

If during the interval the warning zone of the built-in sensor is activated, the system switches it off for two min. If during this time interval the warning zone is activated again the system increases its switching off for another two min. When entering self–test mode, if the function long lock is accessible or the external channel is programmed for windows control, or during the self-test the current sensor is activated it is inactivated for two min. If during this time interval the current sensor is activated again, its switch-off time is increased with another 2 min. The aim is to avoid false arming if a consumer is connected (a cooler etc.) till the windows close up or the car is left in a crowded place.

light lighting off it should be enabled. If it's enable in the test time the current sensor is inactivated for 2 min.

9. Set up of a new remote transmitter. The system should be in waiting mode. Press and hold the service button. The ignition key is turned on/off 4 times. After the 4th one the system produce a chirp and the LED lights. If the service button is pressed for more than 15sec, the system produces a chirp and erases all set transmitters. After that press a button on the transmitter in setup status. The LED should light off. Press once again the button of the transmitter. The system produces 3 chirps and quits the setup mode. The procedure is repeated for every next transmitter. Up to 4 transmitters could be set to the system.

10. Sensors test mode. Press and hold the service button to enter the mode (the system produces 3 chirps) and turn on the ignition key. In 2 min. the system produces a chirp by the siren. Turn off the ignition and release the service button - sensor test mode. Each sensor activation causes chirps to be heard. Their numbers correspond to the sensor, described in the naxt table.

15. external (additional) channel – default turns on the dome lights if the system is disarmed. If it is programmed for windows, in armed mode supplies GND with time interval noted in p.14. If the function is enabled in the test interval shock and the current sensors are disabled for 2min.

16. warning chirps - if "yes" in armed mode and warning chirp of the built-in shock or external sensor is activated, the system won't activate the siren but will turn on only the pager in case the function 17 is enabled.

17. pager turning on with warning chirps – it controls the pager output (turning on signal) if the warning zones are activated.

18. disabling the chirp in arming/disarming - if "yes" in case of arming/disarming the system won't turn on the siren but turns on the blinkers only. The chirps in this case indicate the service mode, configuring mode, sensors test mode.

19. Strength of chirps.

20. lock on ignition turning on if a door is opened - – if the function status is "no", the system won't lock the car on ignition switching on if a door is opened. The function is connected to function 12.

21. disable the long blinkers flash - if it is "no" after disarming the blinkers flash in 20 sec.or till turning the ignition key on.

22. disable warning for door open – for cars with long interval of dome-

If the system is in arm mode and activates 5 times by the trigger zone of the shock sensor, the sensor is inactivated till the next arming.

If the system is in arm mode and activates 5 times by the doors and hood buttons, the buttons are discarded till their inactivation.

5. Service (valet) mode.

The user can switch off the arming mode (activated by pressing of remote transmitter or when self-activating is enabled) if switch on the service mode. The mode is useful if repairing a car, disconnecting of a battery or leaving car in a service station.

⇨Switching on the valet mode. While the system is disarmed - press the service button.

In the mode:

     1.The system cannot be armed.

     2.The circuit for ignition cut off is connected.

     3.The circuit for the build-in battery of the back-up siren is disconnected.

⇨Quit of valet mode. Press the service button – if accepted, three chirps are heard and the blinkers flash three times. Now the system turns the neutral mode on and can be controlled by the remote transmitter.

6. Panic mode

The system increases the personal security of user by the Panic mode. If you have attackers near your car, you can call the attention by switching on the siren and blinkers by the remote control transmitter. Simply press button N2 and the siren will be switched on for 30 sec. Disarming before expiry period - by pressing N2 again.

7. LED indication.

LED indicates about the system status and the diagnostics.

7.1. System status info:

⇨LED doesn't light- system disarmed-neutral mode

⇨LED lights continuously- self test mode

⇨LED lights with frequency 2 blinks per sec. -special security mode

⇨LED lights with frequency 1 blink per 2sec. - night security mode

⇨LED lights on permanently and lights off in 2sec. interval – in service mode

⇨LED lights with frequency 8 blinks per sec. – "anti hi-jack" function is activated

7.2. Diagnostics info.

If the system is in arm mode it keeps in memory the reasons for arming,

and till 15sec. a door is not opened the system is armed again. The function can be disabled, by pressing N2. It will be disabled till next arming.

10. disabling the current sensor – if it is "no" the current sensor is enabled and if consumer is connected in arm mode it starts signalizing.

11. immobilizer – if the function is enabled to recover the ignition when the system is in disarmed mode, turn the ignition key (LED lights) and press N2. The LED lights off.

12. locking on ignition turning on – if it is "yes" , on ignition turning on the system locks the doors. If between the last ignition turning off and turning on pass less than 30sec. the system won't lockimmediately. It's done for the purpose if necessary to turn on the ignition several times consequently to avoid damage the actuators. If a door is opened and function 19 is enabled the system won't lock.

13. enabling the internal zone of the external and shock sensor in special security mode – if the function is enabled in special mode, while activated the internal zone of the built-in shock or external sensor the system will signalize.

14. long locking – used for comfortable lock. If the function is enabled the locking chirp of the system is with programmable time interval (see p.12). between 1sec.and 30sec. If the function is enabled in the test interval shock and the current sensors are disabled for 2min.

1,2,3,4 sound1, sound2, sound3 - different kinds of siren sounds. If several sounds are enabled the system switched them consequently in activation. If all sounds are disabled, the system switched sound1.

5. locking time – it can be 0.7sec. for electronic or 3.5 sec. for pneumatic central door lock.

6. anti hi-jack – if the ignition is turned on and the driver's door is opened, the function is activated and the system produces a chirp. To inactivate the function press the service button. If 60sec. after driver's door opening the service button is not pressed the system produces a chirp and the blinkers flash. If during the interval the service button is pressed the function is inactivated. If till the 15th chirp the service button isn't pressed the siren is turned on and the ignition is cut-off. To disarm turn off the ignition and press the service button.

7. passive activation – in disarm mode if all doors are closed the system produces a chirp indicating that after 15 sec the arm mode is activated. The function could be disabled, by pressing N2. It will be disabled till next arming.

8. disabling locking in passive activation – if it's "no" in passive activation the system locks the car.

9. safety reactivation – if disarming the system by the remote transmitter

and in disarmed mode reports for them. In this case the LED blinks in 2 sec. intervals between the blinks. The number of blinks between the intervals indicates the reasons:

⇨ **two -** attempt for ignition switching on
⇨ **three -** door or hood buttons switched on
⇨ **four -** activated by the current sensor
⇨ **five -** button N2 of remote transmitter
⇨ **six -** activation (trigger) zone of the external sensor
⇨ **seven -** second zone of the built-in shock sensor

7.3 Number of the set remote transmitters of the system – on ignition turning on the LED reports the number of the set remote transmitters.

8. System configuring mode.

When the system is disarmed, press and hold the service button till LED is turned on (in 4 sec.), the system produces a chirp , release the service button(step1). LED blinking indicates status of function 1 – short blink with long pause means that function is on, and continuos lighting with short pause means that function is off. To turn on next function press the service button – a chirp is heard, release the button. Pressing first button of the remote transmitter activates the function – indication of acceptance is a chirp. Pressing of the

second button on remote transmitter turns off the function the system produces two chirps. After the 16th releasing of the service button system produces three chirps, blinkers flash and disarms. Premature disabling of configuring mode is produced by ignition switching on. The system produces three chirps and turns off the configuring mode. If the service button is not pressed in 2min. interval, the system automatically quits the configuring mode.

Step	Function	N1/one signal	N2/two signals
1.	sound1	yes	no*
2.	sound2	yes	no*
3.	sound3	yes	no*
4.	sound4	yes	no*
5.	locking time	3.5 sec.	0.7sec.*
6.	anti hi-jack	yes	no*
7.	passive activation	yes	no*
8.	disabling locking in passive activation	yes	no*
9.	safety reactivation	yes	no*
10.	disabling the current sensor	yes	no*
11.	immobilizer	yes	no*

12.	locking on ignition turning on	yes	no*
13.	enabling the internal zone of the external and shock sensor in special security mode	yes	no*
14.	long locking	yes	no*
15.	external (additional) channel	windows	dome-light*
16.	warning chirps	yes	no*
17.	pager turning on with warning chirps	yes	no*
18.	disabling the chirp in arming/disarming	yes	no*
19.	Strength of chirps	loud	weak*
20.	lock on ignition turning on if a door is opened	yes	no*
21.	disabling the long blinkers flash	yes	no*
22.	disabling warning for door open	yes	no*

* - default