

Power source (switched or constant voltage 5-15 V)

Installation sequence of the alarm system

Install the alarm according to the wiring diagram.
 Make sure all original vehicle connectors are pluged in and the elecronic control units are connected.
 Supply power to the alarm system, it will emit intermittent beeps. Reset the alarm to default settings if it doesn't emit intermittent beeps.
 Interface the alarm with the vehicle (set up group and subgroup). In most vehices the alarm automatically identifies the vehicle group and subgroup after turning the ignition on/off and locking/unlocking the vehicle with the OEM remote. Refer to the Integrator to find out an interfacing procedure for your vehicle.

Attention! All settings of the immobilyzer system can be configured using TECprog software by connecting the module to a PC. This can be done either before or after interfacing with a vehicle.

5. This step can be skipped if there are «CAN-bus» buttons available in a vehicle and you're satisfied with them. Otherwise, within 15 minutes after setting up a group and subgroup, program the steering wheel resistive and/or «digital» (positive/negative) buttons. If you fail to program the buttons within 15 minutes, you will have to reset the alarm to default values and start over.

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5.1 To program the steering wheel (resistive) buttons:

Once the alarm is interfaced with a vehicle, switch on the ignition and wait for 5 seconds with the ignition on.

Then press and hold successively each button and controller on the steering wheel (for about 2 seconds) until you hear a short beep. If you don't hear a beep after pressing a button, it will not be available for use. The buttons that respond with beep after pressing will be available for use.

Resetting to defaults (if the alarm is installed on a vehicle):

1. Disconnect the alarm from power source.

2. Press and hold the integrated button. Holding the button, connect the immobilizer to the power source, it will start beeping continuously.

3. Release the button, wait until the module stops beeping.

4. Switch the vehicle's ignition ON and enter PIN code, wait for the confirmation trill.

5. Intermittent beeps following after the confirmatory trill indicate that the module has been reset to default values.

6. Disconnect the module from power.

Resetting to defaults if the alarm is not installed on a vehicle — there are 3 ways:

1. Enter PIN code (¢2) if it hasn't been changed and the vehicle hasn't travelled 10 kilometer's distance after installing the alarm.

2. Enter PIN code using the built- in (reset) button.

Attention! Press all buttons on the steering wheel to ensure their proper operation with the alarm.

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 Switch off the ignition wait for confirmation trill.

 Switch on the ignition. Assign a button as the programming button from the available ones. To assign a botton, press and hold it until you hear a beep.

 5.2 If you're going to use the digital (positive/negative) button:

 Assign the feature «Positive/negative button» to any programmable input (even several inputs). Connect the inputs through momentary-push buttons to the vehicle ground or to +12 volts depending on their polarity. To use the inputs №№ 10, 22 (X1, 24-pin connector), configure the feature №4 (refert to +Hardware features configurations menu) for the value 4.2±, it is possible to configure this option only with the programming button and until a PIN code is entered using resistive or positive/negative buttons.

 Assign any button as the programming button from those you have connected to. To program a button, switch on the ignition and press it until you hear a beep.

 6. Now you can change the authentication method and/or PIN code if desired.

 7. Inform the car owner of the button which is assigned as the programming button and make a note about it in the user's guide.

3. Install the alarm on the same vehicle it has been fitted before (if you know a secret PIN code combination and/or you have a tag).

The sequence of actions for the first two methods:

1. Press and hold the built in programing button.

2. Still holding the PB blug the device in (supply power to it). The immobilizer will be emitting continuous beeps.

3. Release the button, wait until the alarm stops emitting short beeps.

4. If the vehicle hasn't covered 10 kilometer's distance after installing the alarm and the factory PIN-code «2» hasn't been changed then enter the PIN code «2» with the built-in button (for the 1st way) or enter the PUN code using the built-in button (for the 1st way) or enter the PUN code using the built-in button (for the 1st way) or enter the PUN code using the built-in button (for the 1st way) or enter the PUN code using the built-in button (for the 1st way) or enter the PUN code using the built-in button (for the 2nd way) — wait for the confirmation trill.

5. The continuous beeps following after the confirmation trill mean that the module is now reset to the default settings. Disconnect the immobilizer from power.

Attention! Only the vehicle owner is permitted to scratch off the protective film located on the plastic card and enter PUK code.

Configuration of shock and tilt/displacement sensors (the code to enter the menu - «8», configuration - 5 beeps and LED flashes)

Nº Option name	Range	Default*	Notes
Shock sensor warning level	0-8	4	0 – OFF; 8 – maximum sensitivity
Shock sensor trigger level	0-8	4	0 – OFF; 8 – maximum sensitivity
3 Tilt/displacement sensor	0-8	4	0 - OFF; 8 - maximum sensitivity

Hardware features configuration (the code to enter the menu — «10», ten pressings on the programming button, confirmation — 3 short beeps)

	Option name Vehicle make and model	Default*	Description
	Type of wired engine blocking relay	2	- Normally and A(O) also control 2 control (A(O) also control
	Engine blocking at a safe speed		1 – normally open (NO) relay control; 2 – normally closed (NC) relay control
	Inputs adjustment for connection to analog buttons		1 - disabled. A vehicle is immobilised regardless of speed; 2 - at speed 30 km/h and slower; 3 - only when the vehicle is completely stopped
	Controlling the vehicle's CDL simultaneously with the OEM security system		Inputs New 10, 22 (connector X1, 24-pin) are connected: 1 – to the steering wheel (resistive) buttons; 2 – to a positive and/or negative button (universal programmable inputs)
	Doors sequential unlocking		1 - ON; 2 - OFF
	Hazard lights control algorithm		1 – ON; 2 – OFF
			1 - by connecting to a pulse hazard lights control button; 2 - by connecting to a status hazard lights control button; 3 - by connecting to direction indicator lamps; 4 - hazard lights control via CAN-bus
9	Central door locking system control algorithm	4	1 — control via a single wire (considering the CDL status); 2 — control via a single wire (not considering the CDL status); 3 — double-wire control; 4 — control via CAN-bus
	«Comfort» feature operating time		1 - 10 sec 2 - 20 sec; 3 - 30 sec ; 4 - 4 0 sec; 5 - 50 sec ; 6 - 60 sec .
	External sensors operating mode (shock, volumetric sensor)		1 multiplex mode: 2 - standard mode
	Possibility to start the engine before user authentication		1 - Interpret mode 2 - Standard mode 1 - ON: 2 - OFF
	Optional parking sensors activation		I - Om, 2 - Orr By shifting to: 1 - «R» position: 2 - «D» or «R» with switching off possibility before the ride ends: 3 - «R» with switching off possibility before the ride ends
	Parking sensors control button		by smithing of a web lick's button which the alarm can sense» via CAN-bus as well as a vehicle's original analog (resistive) or digital button (nositive or negative)
	Speed monitoring by the Immobilizer and AntiHiJack features	1	1 - ON: 2 - OFF
	Except Prizrak-8L, -8L/K.		
10	Number of brake pedal pressings to trigger AntiHiJack	3	Range from 1–7
17	GSM engine blocking	1	1 - ON; 2 - OFF
18	Voltage value for low-battery notification	8	1 - 10,6 V; 8 - 11,3 V; 15 - 12 V
19,20	-	-	
21	Except Prizrak-8L, -8L/Smart. Available for 8L/K. Tag search when disarming	- 1	1 – OFF; 2 – tag search for disarming confirmation with the OEM remote; 3 — disabling vehicle unlocking with OEM remote until a tag is detected; 4 – disabling vehicle unlocking with OEM remote with places; 5 — disabling vehicle unlocking with OEM remote with constant tag search; 6 — disabling vehicle unlocking with OEM remote in dangerous places with constant tag search; 7 - entering a PIN code combination for confirmation of disarming with the original remote or keyless entry system.
22	Fuel tank capacity	1	1 – capacity is not set, the fuel level is displayed in %; 2 – 10 L; 30 – 150 L
23	Alarm panic delay when vehicle's perimeter is violated (for «Slave disarming» with keyless entry system)	1	1 – OFF; 2 – 0,5 sec; 3 – 1,0 sec; 4 – 2 sec; 5 – 3,0 sec
24	Engine blocking via CAN	2	1 – enabled in the main Prizrak unit; 2 – disabled ; 3 – enabled in CAN relay
	Vehicle's perimeter monitoring pause after arming (30 sec)	2	1 - ON; 2 - OFF
26 27	«Beach mode»		
		-	_
28	External temperature sensor function (main alarm module temperature sensor mounting location)		1 – engine temperature sensor; 2 – interior temperature sensor; 3 – ambient temperature sensor
29	Heating and ventilation activation while the engine is remote started («Seasonal comfort»)	2	1 – enabled; 2 – disabled. Configuration of actuated heating devices and ventilation. May be configured in TECprog or in the smartphone application. Seats ventilation, side mirrors heating, seats heating, steering wheel heating, rear window heating
30	Type of built-in electro-mechanical relay in «Can-relay Implant»	3	1 - Normally open (NO); 2 - Normally closed (NC); 3 - not used
31	Diagnose «CAN-relay Implant»	-	1 – ready for operation; 2 – not registered; 3 – registration procedure in progress; 4 – registration failed; 5 – no communication with CAN relay; 6 – CAN relay firmware update required; 7 – Error in connection to CAN-bus
	Resetting «CAN-relay Implant» to default values	-	To reset CAN relay to factory values: press the programming button one time; wait for the confirmation trill. The alarm will inform about the option status by a series of 2 beeps and LED flashes. 1 — registered; 2 — not registered (was reset to default values)
	Setting a CAN-BUS of the Prizrak system for controlling «CAN-relay Implant»	11	1 — CAN relay is automatically searched via every available CAN BUS; 2 — CAN relay is searched via CAN1; 3 — CAN relay is searched via CAN2
34	Microphone	1	1 - ON ; 2 - OFF
35	Controlling CDL with the built-in button of the Key ID tag	1	The built-in button controls: 1 — CDL locking/unlocking; 2 — CDL locking; 3 — CDL unlocking; 4 — CDL locking/unlocking when a vehicle is remote started; 5 — CDL locking when a vehicle is remote started; 6 — CDL unlocking when a vehicle is remote started; 7 — CDL is not controlled
	Vehicle's owner authentication using a Key ID tag	1	1 - enabled; 2 - disabled
37	Using the Key ID tag's built-in button as the programming button	1	1 - ON; 2 - OFF. If the feature is OFF, it is not possible to use the Key ID tag's built-in button for programming or entering PUK code
38	Only for Prizrak-8L, -8L/Smart. Disarming the alarm system with the factory remote or with the keyless entry system (Slave mode)	1	1 - enabled; 2 - disabled. IF the value «2» is selected, disarming the alarm sybstem can be carried out using the Key ID tag's button, phone, PUK code
39	-	_	
	Resetting the GSM modem when changing car owner	_	After resetting the GSM modem to default values: the GSM code (access code) will be reset to the default value - e1111x; all users' phone numbers and their personal notification settings will be erased as well as the registration of a vehicle in the mobile app and in the webservice. Prizrak monitoring will be cancelled, the trip log and event log will also be cleared. After entering this option, the alarm system will enter the modem: press and release the programming button one time and wait for the confirmation trill. The alarm system will automatically exit the programming mode
	Executing the algorithms created in the «Programming studio» (programmable logic)	1	1 - ON ; 2 - OFF
42	Steering wheel location in a vehicle		1 – left-hand drive car; 2 – right-hand drive car. This setting is used for proper displaying of the driver's door in the app
	Slave mode operating algorithm	1	1 – using CAN-bus data; 2 – using analog inputs without carrying out the learning procedure; 3 – start the learning procedure; 4 – using analog inputs after carrying out the learning procedure
44		_	-
45	Tag search time to confirm disarming	1	1 - 10 sec; 2 - 20 sec; 3 - 30 sec The system will indicate whether the button is programmed: 1 - the programming button is set; no signal - not registered. To reset the button, press the programming button one time and wait for
	Reset buttons configuration		confirmation
	Engine start blocking via LIN (cutting the immobilizer line with LIN3 and LIN4)	1	1 – disabled; 2 – enabled; 3 – enabled only for the armed mode (depending on activity in vehicle CAN bus)
48	Unlatching hood lock when detecting a tag before switching on the ignition	2	1 – ON; 2 – OFF
			· or

Programmable inputs/outputs configuration (the code to enter the menu — «11», eleven pressings on the programming button, confirmation — 6 short beeps and LED flashes)

Nº	Connector	Option description	Default*	Available values. Notes
1		Configuration of the wire LIN1 grey/blue	1	1 - Keyless bypass «TEC electronics»; 2 - IMO (Toyota/Lexus); 3 - Control channel of the module «ComfortControl Mazda»; 4 - Control of key bypass module Fortin/iDataLink; 5 - Program. input X1-1, see option Nº2 of the menu
2		Function of the input X1-1-grey/blue (-)	-	Not set. Can be assigned any function from the list of features for program, inputs
3		Configuration of the wire LIN2 grey/green	1	1 - Keyless bypass TEC electronics»; 2 - LIN C.L for Mazda; 3 - Control of key bypass module Fortin/iDataLink; 4 - Program. input X1-13, see option Nº4, of the program. menu
4		Function of the input X1-13 grey/green (-)	_	Not set. Can be assigned any function from the list of features for program, inputs
5		Function of the input X1-13 grey/green (-) Cofiguration of wires LIN3 X1-3 (white/blue) and LIN4 X1-15 (white/green)	1	1 - Keyless bypass «TEC electronics»; 2 - IMO (Toyota/Lexus); 3 - LIN data bus; 4 - Program. input X1-3, see option №6 of the menu
6		Function of the input X1-3	_	Not set. Can be assigned any function from the list of features for program. inputs
7		Configuration of the wire X1-5 orange/green	2	1 – Is used as an input; 2 – Is used as an input/output
8	X1	Function of the input X1-5 orange/green	24/28	Driver's door pin switch input/pulse for the driver's door opening imitation (see option NºT of the menu). The wire functions as both the input of the driver's door pin switch and as the output for «Driver's door opening imitation» If the wire is configured as «Input», it is possible to assign to it any feature from the list of features for programmable outputs. Wired engine blocking control output (NO or NC relay). Can be assigned any function from the list of features for program. outputs
9	(24-pin)	Function of the output X1-7 white/black (-)	54	Wired engine blocking control output (NO or NC relay). Can be assigned any function from the list of features for program. outputs
10	(E : p)	Function of the output X1-8 white/black (+/-)	55	Panic/warning signals to sire. Can be assigned any function from the list of features for program. outputs
11		Polarity of the output X1-8 pink/black (+/-)	1	1 – Positive polarity; 2 – Negative polarity
12		Function of the output X1-17 green (-) Function of the output X1-19 blue (-)	52	Pulse to «Lock» the central locking for double-wire control or pulse to lock/unlock for single-wire control. Can be assigned any function from the list of features for program. outputs Pulse to «Unlock» the central locking for single-wire control. Can be assigned any function from the list of features for program. outputs
13		Function of the output X1-19 blue (-)	53	Pulse to «Unlock» the central locking for single-wire control. Can be assigned any function from the list of features for program. outputs
14		Function of the output X1-20 blue/red (+/-)	51	Hazard lights control. Can be assigned any function from the list of features for program. outputs
12 13 14 15		Polarity of the output X1-20 blue/red	2	1 - Positive polarity; 2 - Negative polarity
16 17 18 19 20 21		Function of the output X1-6 green/black (-)	2	Hood position control input. Can be assigned any function from the list of features for program. intputs Reference ground input for resistive buttons. Changing the function is only possible in the menu «Hardware features configuration», option 4
17		Function of the output X1-11 grey/black (-)	_	Reference ground input for resistive buttons. Changing the function is only possible in the menu «Hardware features configuration», option 4
18		Function of the output X1-18 pink/green (+)	1	Bake pedal status control input. Can be assigned any function from the list of features for program. intputs
19		Function of the output X1-23 grey/yellow (+)	_	Positive signal for resistive buttons. Changing the function is only possible in the menu «Hardware features configuration», option 4
20		Function of the output X2-1 (+)	50 (5)	ACC (remote engine start)
21		Function of the output X2-2 (+) Function of the output X2-3 (+)	50 (6)	Ignition 2 (remote engine start)
22	X2	Function of the output X2-3 (+)	50 (3)	Starter (remote engine start)
23	(6-pin)	Function of the output X2-4 (-)	50 (2)	Key in the ignition switch (remote engine start)
24		Function of the output X2-5 (+)	50 (4)	Ignition (remote engine start)
25		Function of the output X2-6 (-)	50 (1)	Power supply of the key bypass module. (remote engine start)
26	Х3	Function of the input X3-2 red/white (+)	7	Panic override input when releasing the trunk with car's original remote or keyless entry system. Can be assigned any function from the list of features for program, outputs
27		=		
28	(4-pin)	Function of the input X3-4 orange/white (-)	28	All doors except the driver's door. Can be assigned any function from the list of features for program. inputs

Programmable outputs features

Nº Feature name	Nº	Feature name	Nº	Feature name
0 Not used	21	Parking brake status	43	Heating control in the remote start mode (status output)
1 «Armed» status		Marker lights		Except Prizrak-8L, 8L/Smart. Available for 8L/K. Normally closed relay control for CDL unlocking blockage
2 Pulse when «Arming»		(«Comfort») timer channel	45	Service (valet) mode status
3 Pulse when «Disarming»		Starter or OBDII diagnostic bus blocking (NC relay control)		Heating control in the remote engine start mode (pulse control output)
4 Pulse after carrying out authentication		Pulse to latch hood lock		Remote start mode status
5 Vehicle's OEM alarm panic status	26	LED indicator output for optional parking sensors	48	Starter control (remote engine start for specific vehicles)
6 Panic to a pager	27	Except Prizrak-8L, 8L/K. Engine heater control.		«Ignition» control. (remote engine start for specific vehicles)
7 Panic/warning signals to a siren	28	Pulse to imitate driver's door opening after the remote start termination		Output for the remote start
8 Doors, hood, trunk status	29	Pulse to unlock the trunk	51	Hazard lights alternative control
9 –	30	A third party remote engine start module control		CDL alternative control. Pulse to «Lock» for double-wire control or pulse to lock/ unlock for single-wire control
10 Pressing on vehicle's OEM button	31	Gas pedal blocking (NC relay control)	53	CDL alternative control. «Unlock» command for double-wire control
11 Ignition	32	Except Prizrak-8L, 8L/Smart. Available for 8L/K. Pulse to latch optional door blockers	54	Wired engine blockig output (controlling a NO or NC relay)
12 ACC	33	Except Prizrak-8L, 8L/Smart. Available for 8L/K. Pulse to unlatch optionbal door blockers	55	Panic/Warning signals to a siren
13 Engine is running	34	Except Prizrak-8L, 8L/Smart. Available for 8L/K. Normally open relay control for CDL unlocking blockage		Except Prizrak-8L, 8L/K. Engine heater circulation pump control
14 Engine RPM		Status double-wire control Fortin/iDataLink - «GWR»		Engine blocking by imitating the Start/Stop button push
15 AT gear lever position status	36	Status double-wire control Fortin/iDataLink - «Start»		An external beeper control output
16 Vehicle in motion status	37	Steering wheel unlocking control (remote start for Toyota/Lexus)	59	Output for programmable logic
17 Front parking sensors control (power supply)	38,39		60-64	
18 Rear parking sensors control (power supply)	40	Pulse single-wire control for Forting/iDataLink	65	Timer channel «Comfort with delay»
19 Vehicle driving speed	41	Except Prizrak-8L, 8L/K. Engine heater status LED indicator		
20 Brake pedal status	42	Dashcam control output		

Programmable inputs features

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Nº	Feature name	Nº Feature name	Nº	Feature name						
	Brake pedal position monitoring	14 CAN bus «awakening»		Input for entering PIN code with the «Beach mode» button						
2	Hood position monitoring	15 Hazard lights status monitoring	28	All doors except the driver's door						
3	Doors	16 Trunk		Input for keyless bypass module synching						
4	CDL «locked» (status)	17 Wired «PIN code button» (positive or negative)		CDL «lock» input						
	CDL «unlocked» (status)	18 Command to lock central locking		CDL «unlock» input						
- 6	Ignition monitoring input	19 Command to unlock central locking	32	CDL «lock/unlock» input						
7	Alarm panic override when releasing the trunk with factory remote or keyless entry system	20 Optional sensor input №1		Programmable logic input						
8	Optional parking sensors control button	21 Optional sensor input №2	34-41	- 1						
9	Except Prizrak-8L, -8L/K. Engine heater status	22 Running engine status in the remote start mode	42	Programmable logic input						
	Window wipers status	23 Except Prizrak-8L, -8L/K. Engine heater activation input	43	Gearbox lever position monitoring						
-11	Brake pedal pressure ignoring when using a third-party remote start equipment	24 Driver's door pin switch input	44	Tach monitoring input						
12	Turning off the remote start mode	25 Vehicle's OEM alarm system panic monitoring								
13	Parking brake input	26 Except Prizrak-8L, -8L/Smart. Available for 8L/K. Tag search initiation								

Е	ccept Prizrak-8L/K. Engine heater settings (code to enter the menu — «17», confirmation — 8 beeps and LED flashes)									
1	1º Option name	Range	Default*	Description						
	1 Controlling an aftermarket engine heater	1 – 2	1	1 - enable; 2 - disable						
	2 Auxiliary heater mode	1 – 2	2	1 — enable; 2 — disable						
	3 Engine heater conrol protocol	1 – 7	-	1 – Webasto; 2 – Eberspächer; 3 – automatic adjustment; 4 – factory fitted Webasto for VAG (Multivan T6); 5 – factory fitted Webasto for RR Evoque (2011-2013); 6 – factory fitted Eberspächer for RR Evoque (2011-2013)/Sport (2014); 7 – control over protocol disabled: 8 – factory-fit Eberspächer for Toyota						
	4 Engine heater shutdown conditions	1 – 3	1	1 - by time; 2 - by engine temperature; 3 - by engine temperature or by time						
	5 Engine heater run-time	1 – 12	3	1 – 10 minutes;3 – 30 minutes; 12 – 120 minutes						
	Engine heater shutdown temperature	1 - 11	5	1 - 10°C; 2 - 20°C; 3 - 30°C; 4 - 40°C; 5 - 50°C ; 6 - 60°C; 7 - 70°C; 8 - 75°C; 9 - 80°C; 10 - 85°C; 11 - 90°C						
	7 Car's battery voltage to shutdown the engine heater	1 - 11	9	1 – 10,5 V; 9 – 11,3 V; 11 – 11,5 V						
	8 Controlling factory installed engine heater via CAN bus	1 – 2	1	1 - enable: 2 - disable						
	9 Engine heater activation code which is entered with vehicle interior buttons	-	-	-						
	0 Controlling engine heater with OEM remote	1 – 2	2	1 — enable; 2 — disable						
	1 Aftermarket engine heater control	1 – 6	1	1 - status control; 2 - pulse control 2,5 sec; 3 - pulse 3 sec; 4 - pulse 1,5 sec; 5 - pulse 1 sec; 6 - pulse 0,8 sec						
Ε.	2 Autonomous ventilation run-time	1 – 4	1	1 – OFF; 2 – 10 minutes; 3 – 20 minutes; 4 – 30 minutes						
	3 Ambient temperature value to turn on an aftermarket engine heater in the auxiliary heater mode	1 - 11	8	1- «-30°C»; 2 - «-25°C»; 3 - «-20°C»; 4 - «-15°C»; 5 - «-10°C»; 6 - «-5°C»; 7 - «0°C»; 8 - «+5°C»; 9 - «+10°C»; 10 - «+15°C»; 11 - turn off regardless of temperature						
	4 Allow the factory engine heater to continue running after switching on the ignition	1 – 2	2	1 – enable: 2 – disable						

Hear cattings (code to enter the many = #12» confirmation = 4 hours and LED flashes)

Nº	Option name	Default*	Available values. (Note). The default values are highlighted in bold
1	Immobilizer/PINToDrive	1	The Field
	For Prizrak 8L/Smart, -8L/Smart/PRO, -8XL/Smart. Immobilizer/PINToDrive®	2	1 -enabled; 2 - disabled
2	Except Prizrak-8L, -8L/K. AntiHiJack (protection from violent seizure while driving)	1/2	1 enabled; 2 disabled
3	Except Prizrak-8L, -8L/K. Travel distance before AntiHiJack triggers	1	Range from 1 to 10; 100-1000 meters
4	Siren operation when alert triggers	4	Range from to 4: 1 - siren OFF; 2 - siren doesn't sound when warning is triggered; 3 - loudness for warning is the same as for arming/disarming (refer to the option Nº11); 4 - siren is ON (max. loudness
5	Except Prizrak-8L, -8L/Smart. Siren operation after triggering the alarm	1	1 -enabled; 2 - disabled
6	Tag search audible indication for confirmtion of authentication when disarming	1	1 -enabled; 2 - disabled
7	Service mode auto deactivation	1	1 -enabled; 2 - disabled
8	Door auto-locking when driving off	2	1 enabled; 2 disabled
9	Door auto-unlocking when switching off the ignition	2	1 enabled; 2 disabled
10	Windows, side mirrors, sunroof auto closure — «Comfort»	4	Range from 1 to 5:1 - Windows closure; 2 - windows and side mirrors closure; 3 - windows and sunroof closure; 4 - windows, sunroof, side morrors closure; 5 - OFF (closure is not performed)
11	Siren chirps loudness when arming/disarming	4	Range from 1 to 4: 1 – silent arming/disarming; 2 – minimum loudness; 3 – medium; 4 – maximum
12	Except Prizrak-8L, -8L/Smart, 8L/K, 8CL/2Slim. Authentication method (PUK code required)	1/3	Range from 1 to 4:1 — Tag; 2 — PIN code; 3 — Tag or PIN code; 4 — Tag and PIN code
13	Over speeding threshold	4	1 – over speeding is not monitored; 2 – 110 km/h; 4 – 130 km/h; 10 – 190 km/h
	New tags registration	-	Range from 0 to 8
15	Tag detection quality test	-	Allows to determine the zones of reliable tag detection
16	Except Prizrak-8L, 8L/K, 8CL/2Slim. AntiHiJack feature automatic deactivation with a tag	2	1 enabled; 2 disabled
	Automatic rearming	2	1 – enabled; 2 – disabled
	Deleting smartphone tags from memory	-	Range from 1 to 4
19	Deleting radio tags from memory	-	Range from 1 to 8

ode	19 Deleting radio tags from memory	_ n	iange nom i	10 0
oue	Remote engine start mode features (code to enter the menu - «16», con	firmtion	– 7 beej	ps and LED flashes)
-	Nº Option name	Range	Default*	Note
	1 «Free hands» feature in the remote start mode	1 – 3	2	1 – ON; 2 – OFF; 3 – engine shutdown without «disarming»
	2 Set up a standard remote start diagram	3 - 27	3**	Set up one of the standard remote start schemes (timing diagrams). All timing diagrams can be found in TECprog2, Any timing diagram can be customized according to specific needs
	3 «Ignition support» feature	1 – 2	2	1 - ON; 2 - OFF
	4 Engine run time in the ignition support mode	1 – 15	5	1 – 1 minute; 2 – 2 minutes; 3 – 3 – minutes; 4 – 10 minutes; 5 – 20 minutes ; 15 – 120 minutes
	5 «Ignition support» feature	1 – 5	1	1 - enabled; 2 - operation time 1 minute; 3 - 2 minutes; 4 - 3 minutes; 5 - adjusts automatically
	6 External temperature sensor function (connected to ESM-250)	1 – 2	2	1 — engine temperature sensor; 2 — interior temperature sensor
eats	7 Ignoring brake pedal application when remote starting the vehicle	1 – 3	2**	1 — brake pedal is ignored when remote starting the vehicle; 2 — brake application cancels the remote start
-	8 Shutting down the engine after releasing the brake pedal	1 – 2	2**	1 - ON: 2 - OFF
r in	9 Pressing the brake pedal via CAN-bus	1 – 2	2**	1 - ON: 2 - OFF
	10 Shutting down the engine when disarming	1 – 2	2**	1 - ON: 2 - OFF
not	11 Engine shutdown conditions in the remote start mode	1 – 3	1	1 - by time; 2 - by engine temperature; 3 - by engine temperature or by time
_	12 Engine type	1 – 3	1	
_	13 Starter cranking delay (for diesel) 14 Engine RPM at idle	1 - 20	2	1 – diesel ; 2 – petrol; 3 – hybrid 1 – 1 sec;20 – 20 sec
_		1 – 6	-	1 – 600 RPM;6 – 1100 RPM. It is adjusted automatically, can be set up manually if needed
note	15 Engine run time in the remote start mode	1 – 12		1 – 10 minutes; 3 – 30 minutes ; 12 – 120 minutes
-	16 Engine shutdown temperature in the remote start mode	1 – 14		1 - «15°C»; 2 - «20°C»; 12 - «70°C»; 14 - «80°C»
_	17 Low-temperature automatic engine start	1 – 11		1 - «-30°C»; 2 - «-20°C»; 3 - «-15°C»; 4 - «-10°C»; 5 - «-5°C»; 9 - «-0°C»;
_	18 Low-battery voltage automatic engine start	1 – 15		1 – 10,6 V; 2 – 10,7 V; 8 – 11,3 V ; 15 – 12 V
	19 Engine run time to recharge the car's battery	1 – 6	3	1 – 10 min; 3 – 30 min; 6 – 60 min
	20 Transmission type	1 – 4		1 — Automatic transmission (AT); 2 — Manual transmission (MT); 3 — control is not performed;
sed	21 «Remote engine start» feature	1 – 2		1 – ON; 2 – OFF
arm ode	22 Ignoring time for driver's door opening imitation (for third-party remote start modules only)	1 – 5	1	1 — ignore disabled (getting out of the vehicle imitation is also disabled); 2 — 1,0 sec; 3 — 3 sec; 4 — 5 sec; 5 — all doors are ignored starting from the moment of receiving the remote start command until the engine is started and within 5 sec after switching off the ignition.
	23 Driver's door opening imitation when remote start mode is terminated	1 – 5	1	1 - via CAN-bus and pulse 0,4 sec; 2 - pulse - 0,4 sec; 3 - 1,0 sec; 4 - 4,5 sec; 5 - 3,5 sec
	24 CDL automatic re-locking when remote start is terminated	1 – 2	1	1 - ON; 2 - OFF
	25 Rearming a vehicle as soon as the remote start mode is terminated	1 – 2	1	1 - ON; 2 - OFF
	26 Except Prizrak-8L, 8L/K. Engine pre-heating time with parking heater	1 – 4	2	1 – 10 min; 2 – 20 min; 4 – 40 min
_	27 Except Prizrak-8L, 8L/K. Engine pre-heating temperature with engine heater	1 - 10	3	1 - «-10°C»; 2 - «-5°C»; 3 - «0°C» ; 10 - «50°C»
for	28 Except Prizrak-8L, 8L/K. Engine start delay after pre-heating	1 – 5	1	1 - OFF; 2-3 min.; 3 - 5 min; 4 - 10 min; 5 - 15 min
_	29 Controlling the remote engine start with vehicle's original remote	1 – 2	2	1 - ON: 2 - OFF
	30 Remote engine start via CAN-bus	1 – 2	2	1 - ON: 2 - OFF
	31 Ignoring all parameters during remote start mode	1 – 2		1 - 0N: 2 - 0FF
	32 Completing the remote start ready procedure (manual transmission)	1 – 2	1	1 - after closing the driver's door: 2 - after arming the vehicle with OEM remote
	33 Audible warning about switched ON window wipers in the remote start mode	1 – 2	2	1 - 0N: 2 - 0FF
	34 Time period for imitating the «driver's door opening»	1 – 3	1	1 – after the remote start; 2 – prior to the remote start; 3 – prior to and after the remote start
	35 «Turbotimer» feature activation	1 – 2	1	1— after shifting the gear lever to «P» (Parking) and engaging the parking brake; 2 — After shifting the gear lever to «P». For vehicels with MT transmission the «Turbo-timer» feature is only engaged after completing the «Remote start ready» procedure.
	36 Ignoring the parking brake during remote engine start mode	1 – 3		1 — when remote starting the engine; 2 — the parking brake inhibits the remote start; 3 — the entire remote start cycle
	37 Ignoring the vehicle's speed when remote starting the engine	1 – 3	2	1 — when remote starting the engine; 2 — vehicle speed data cancels the remote start; 3 — the entire remote start cycle
	38 locking the central door locking system after switching off the ignition when completing the «Remote start ready mode»	1 – 2	2	1 – 0N; 2 – 0FF
20	39 Carrying out tach learning routing (alternative connections required)	1 – 3	-	1 — idle tach data is saved; 2 — idle tach data isn't saved; 3 — carry out idle tach data learn routine
on».	40 Pause before unlocking the central locking system when disarming with engine shutdown	1 – 2	. 2	1 - ON: 2 - OFF

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Dull	built-in initiobilizer keyless bypass module adjustment (code to enter the mend - «16», committation - 9 beeps and LED hasnes)									
Nº	Option	Range	Default*	Description						
1	Keyless bypass module control protocol	1 – 3	_	1 - Fortin; 2 - iDataLink; 3 - «TEC electronics»						
2	Syncing with OEM immobiliser	1 – 4	-	1 – Syncing complete; 2 – Syncing not complete; 3 – Start syncing; 4 – Syncing not possible						
3	«ŤEC electronics» keyless bypass connection method (OEM immobilizer type)	-	-	Sets automatically. Can be set up manually if needed						
	OEM alarm system operating mode (for the remote start)	1 – 3	-	1 - OEM alarm operates in standart mode: 2 - OEM alarm is disabled. The OEM alarm system will not «arm»; 3 - «Disarming» and «Arming» the OEM alarm system prior to remote starting the engine						

SIM cards operation mode settings (code to enter the menu - «24», confirmation - 14 beeps and LED flashes)

Nº	Option	Default*	Available settings
1	SIM cards operation and priority	4	1 - Priority for SIM1; 2 - Priority for SIM2; 3 - Equal priority; 4 - SIM1 is active (SIM2 disabled); 5 - SIM2 is active (SIM1 disabled)
2	Frequency of sending SMS messages from SIM1	6	1 - every 29 days; 2 - every 44 days; 3 - 89 days; 4 - 119 days; 5 - 179 days; 6 - SMS disabled
3	Frequency of sending SMS messages from SIM2	3	1 - every 29 days; 2 - every 44 days; 3 - 89 days ; 4 - 119 days; 5 - 179 days; 6 - SMS disabled
4	Frequency of requesting balance for SIM1	2	1 - every 1 hour; 2 - every 2 hours; 3 - 4 hours; 4 - 8 hours; 5 - 24 hours; 6 - balance is not requested
5	Frequency of requesting balance for SIM2	5	1 - every 1 hour; 2 - every 2 hours; 3 - 4 hours; 4 - 8 hours; 5 - 24 hours; 6 - balance is not requested
6	Internet in roaming for SIM1	2	1 – ON; 2 – OF F
7	Internet in roaming for SIM2	2	1 – ON; 2 – OF F

BT-relay Prizrak 1A (2x3) 5_12V adjustment (code to enter the menu - «23», confirmation - 13 beeps and LED flashes)

Nº Cell	Option	Default value. Note
1 -	Radio relay registration	Registering a radio relay with the programming button of the Prizrak system
2	Communication quality test with radio relay	Communication quality test with radio relay
3	Unregister the relay	Cancel registration
4	Configuration of the output (built-in relay)	The default setting — wired engine blocking (только H3)
The first radio relay in Prizrak	_	-
6 system's memory	_	-
7	Built-in accelerometer sensitivity adjustment	The default setting - 4. The range from 1 - MIN to 8 - MAX
8	Increased stealth mode of the BT relay	1 – ON; 2 – OFF (default setting)
9	Communication quality test with radio relay	Communication quality test with radio relay
10	Unregister the relay	Cancel registration
11	Configuration of the output (built-in relay)	The default setting — wired engine blocking
12 The second radio relay in Prizrak	_	-
13 system's memory (if installed)	_	-
14	Built-in accelerometer sensitivity adjustment	The default setting - 4. The range from 1 - MIN to 8 - MAX
15	Increased stealth mode of the BT relay	1- ON; 2 - OFF (default setting)
16	Communication quality test with radio relay	Communication quality test with radio relay
17	Unregister the relay	Cancel registration
18 The strict of	Configuration of the output (built-in relay)	The default setting — wired engine blocking
19 The third radio relay in Prizrak	_	-
20 system's memory (if installed)	_	-
21	Built-in accelerometer sensitivity adjustment	The default setting - 4. The range from 1 - MIN to 8 - MAX
22	Increased stealth mode of the BT relay	1 – ON; 2 – OFF (default setting)

-	Diagnostic trouble codes reading adjustment (code to en	iter the menu – «21», cor	.21», confirmation — 11 beeps)					
_	Nº Option	Default*	Description					
	Diagnostic feature operating mode (refer to the Integrator)	1	1 - diagnostics OFF; 2 - diagnostics via CAN1; 3 - diagnostics via CAN2					
_	Vehicle's diagnostic protocol (refer to the Integrator)	1	1 - standard ID (11 bit); 2 - extended ID (29 bit); 3 - protocol Mercedes					
_	3 Automatic clearing fault codes that appeared after blocking the engine	2	1 – ON; 2 – OFF					
	4 Automatic clearing fault codes that appeared after heating up the engine	by the engine heater 2	1 – ON; 2 – OFF					
	5 Conditions for auto clearing fault codes	1	1 – if at least one of the saved codes is detected; 2 – if only unsaved codes not detected					

* Default setting ** The setting can be automatically changed for a specific vehicle (refer to the integrator)

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