

E2797RA-01*1028*00



WARNING: Carefully read following instructions and technical specifications in this manual before installation. The system install and use in agreement with this manual only. The system is assigned for installation to all vehicles with 12V power supply. The system has to be connect on 12V and to ground. Producer neither seller of the system don't respond for damages caused incorrect installation, using or operating of this product different to install or user's manual. Unprofessional operation to the system or modification of the system can damage system or electrical system of vehicle and cause warranty loss. For correct work of this system we commend installation to the professional service.

SYSTEM DESCRIPTION

P LOCK is central locking system for vehicles with 12V power supply. The system is controlled by transmitter hereby is possible trunk remote control. Communication between control unit and central lock is safety by hopping code. P LOCK set contains control unit for correct functionality of the system, set of 4 actuators (2 pcs to front control doors and 2 pcs to back doors), cable ties on interconnection of the system, set of mechanical parts (rods, fasteners, sheetmetals u). The actuators installed in doors provide for motion of rods (like in hand-control). The actuators of front doors contain switch that reads position of the lock and sends informations about position to the control unit. The control unit on the base of lock position change of control doors controls all other door locks. The system P LOCK used as car alarm is assigned for doors, trunk and hood sensing. In violation, the system alerts by optical (direction lights) and sound (siren) signalling. Siren is not included in package. In arming, engine-cut circuit activates, that cut start of engine. The car alarm is controlled by remote control and in this way central lock too.

Attention: If you'd like ude this system as car alarm, then is necessary to deactivate service mode! Valet mode is signalized by LED indicator. In valet mode LED lights permanent when ignition OFF.

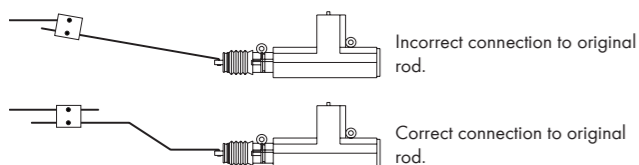
PACKING

- 2x 2-wire actuator
- 2x 5-wire actuator
- 4x rod
- 1x fasteners set
- 4x sheetmetal
- 1x control unit
- 2x cable tie
- 2x transmitter

I. INSTALLATION AND MAINTIANANCE

At installing is necessary the actuator place so that its motion at the most in axis of controlled rod motion or lock motion. The actuator can't obstruct of window motion or other moving parts of door. After installing and connecting to the rod or lock try funtionallity of motion by hand (if run is fluent and mechanism don't stick).

ROD CONNECTION



Connect wires of actuator to supply actuators with the same color. If locks in any doors demand reverse run, change each other supply - blue and green. If this actuator is master change each other white with blue too. Be careful with supply wires placement so that motion of window and door don't damage this wires. **Notice:** If mechanism of the lock is frozen, actuator can't the lock open. Therefore first defrost the lock (by defrost fluid or keep the vehicle in heating space), then unlock doors by central lock. Before wintertime take grease of door locks.

Control unit and LED placement

The control unit is assigned for installation to interior of vehicle. The best placement is under dashboard. Before control unit connection we recommend move out the fuse on supply wire.

CONNECTOR CN1 (2-PIN) - LED CONNECTION

Connector is for LED indication connection. LED place on well visible place.

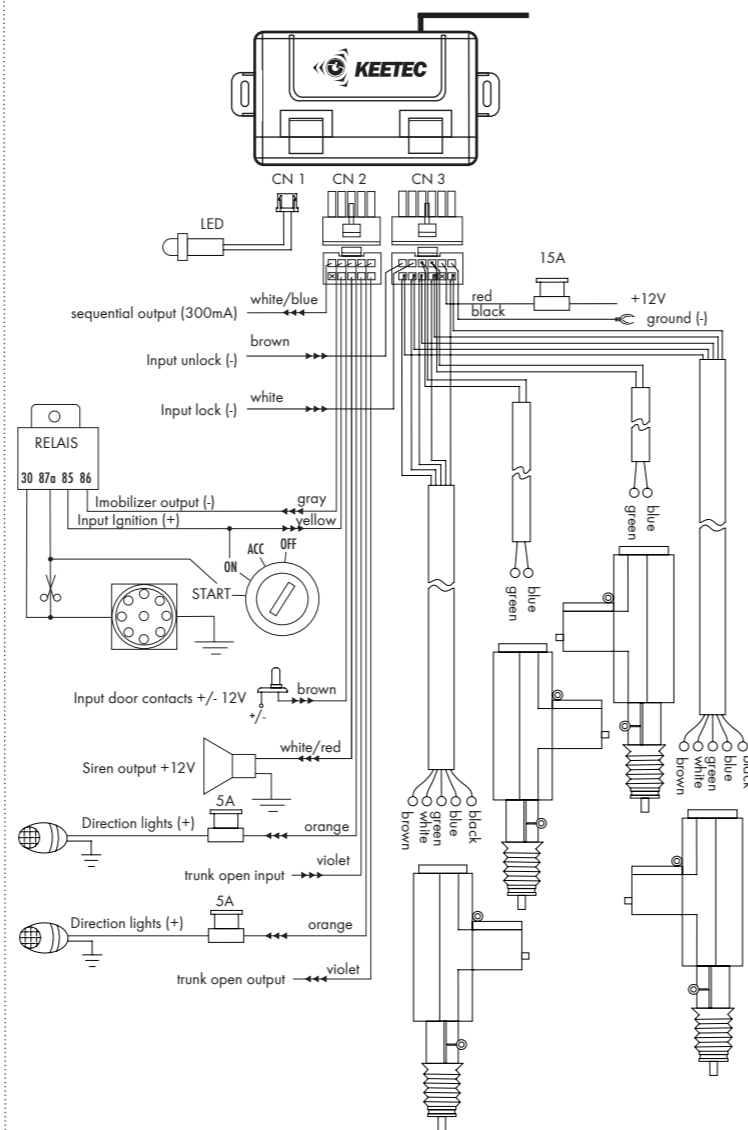
CONNECTOR CN2 (10-PIN) - INPUT AND OUTPUT CONNECTOR

- White/blue (+/-300 mA) Sequential output for optical signalling (output wire)
- Grey (-300mA) Immobilizer output for cut of engine start (output wire)
- Yellow (+) Ignition +12V (input wire)
- Brown (+/-) Door contacts sensing (input wire)
- White/red (+) Siren (output wire)
- Orange (+) Power output for direction lights (output wire)
- Violet Trunk open (input wire)
- Orange (+) Power output for direction lights (output wire)
- Violet Trunk open (output wire)

CONNECTOR CN3 (12-PIN) - INPUT AND OUTPUT CONNECTOR

- Brown (-) Unlock (input wire)
- White (-) Lock (input wire)
- Red (+) Ignition +12V (input wire)
- Black (-) Ground (input wire)
- Green Wire for actuator connection
- Blue Wire for actuator connection
- Brown Wire for actuator connection
- White Wire for actuator connection
- Black Wire for actuator connection

II. WIRE DIAGRAM



III. PROGRAMMING SYSTEM FUNCTION

Turn ignition ON/OFF, the same times as is function for change. Keep the ignition turned ON. After 3 sec. flash direction lights 1x or 2x, according to function setting. if you want to change function, repeat steps. The programming will change after 3 sec. by turn ignition OFF.

Program table

Program menu	Ignition ON/OFF	Function	Default (1x flash)	Option (2x flash)
F1	3x	doors lock after turn ignition ON	ON	OFF
F2	5x	learning remote controls		
F3	7x	emergency deactivation		
F4	8x	sequential output polarity	(-)	(+)
F5	9x	sequential output type	sequential	regular
F6	10x	valet mode	ON	OFF
F7	11x	automatic reactivation	OFF	ON
F8	12x	mute/load arming	mute	load
F9	13x	inputs activation delay	5 sec.	30 sec.
F10	15x	doors contacts input polarity	(-)	(+)
F11	16x	shock sensor connection	OFF	ON

F1. DOORS LOCK AFTER TURN IGNITION ON

DEFAULT: doors will lock in turn ignition ON
OPTIONAL: doors will not lock in turn ignition ON

F2. LEARNING REMOTE CONTROLS

1. Turn ignition OFF/ON 5x till 10 sec. Keep ignition ON
2. After 5-th turned ignition ON, direction lights flash 5x. Programming is started.
3. Press any button on new trasmitter till 10 sec. (if you don't do it till 10 sec. or you turn ignition OFF, the system will finish programming automatically).
4. Direction lights flash 1x for first transmitter, 2x for second and 3x for third. If you'd like to learn new transmitter, you must also to learn other transmitters that were programmed before.

5. The system will finish programming automatically after 10 sec. from programming last transmitter or by turn ignition OFF.

Notice: The system allows to program max. 3 pcs transmitters.

F3. EMERGENCY DEACTIVATION

- open the door in arming (siren sounds)
- turn ignition ON/OFF 7x till 20 sec.
- after 3 sec., siren sound 4x and direction lights flash 4x. The system is disarmed.

F4. SEQUENTIAL OUTPUT POLARITY

DEFAULT: sequential output has negative polarity (- 300mA)
OPTIONAL: sequential output has positive polarity (+ 300mA)

F5. SEQUENTIAL OUTPUT TYPE

DEFAULT: sequential output. When direction indicators will flash 1x on sequential output are two impulse.
OPTIONAL: regular. Sequential output is like power output to direction indicators (When direction indicators will flash 1x on sequential output is one impulse).

F6. VALET MODE

DEFAULT: valet mode ON
OPTIONAL: valet mode OFF

F7. AUTOMATIC REACTIVATION

DEFAULT: function ON. If after deactivation, door is not open, the system is activated after 20 sec.
OPTIONAL: function OFF

F8. MUTE / LOAD ARMING

DEFAULT: mute arm/disarm
OPTIONAL: load arm/disarm

F9. ACTIVATION INPUTS DELAY

DEFAULT: after activation of the system, inputs are activated after 5 sec.
OPTIONAL: after activation of the system, inputs are activated after 30 sec.

F10. DOORS CONTACTS INPUT POLARITY

DEFAULT: doors contacts input reacts on negative impulse (-)
OPTIONAL: doors contacts input reacts on negative impulse (+)

F11. SHOCK SENSOR CONNECTION

DEFAULT: shock sensor connection is not available
OPTIONAL: shock sensor connection is available
Notice: If shock sensor connection is available, then 2-stage shock sensor is possible to connect on doors contacts input. At weak shock, siren sounds 1x and direction indicators flash 1x. At strong shock, the system triggers alarm. Siren sounds and direction indicators flash 30 sec. Maximal number of alarms triggered during one arming from doors contacts input is 8. počet Alarm triggered from turn ignition ON is unlimited.

IV. VALET MODE

- open central lock and turn ignition OFF/ON 10x. Keep ignition ON.
- direction indicators flash 1x at valet mode activation and 2x at valet mode deactivation.
- valet mode is signalized by LED diode with permanent light when ignition OFF.

TECHNICAL PARAMETERS	
Power supply	12V +/- 25%
Working temperature	-30°C to 70°C
Standby mode	10mA
Transfer frequency	433,92 MHz
Duration of alarm cycle	30 s