TESTER REMOTE CONTROL SYSTEM v1.0

The diagnostic complex is intended for testing the remote-control system of the car's central lock by employees of service and other services. Any illegal actions using this complex are prosecuted by law.

Description of the device

The diagnostic complex is designed to test remote control systems for the central locking of TOYOTA/LEXUS 88, A8, A9 and SUBARU F3 cars with types of keys.

The diagnostic complex (hereinafter referred to as the "device") consists of two elements: the hardware and the program running the Android OS. The program can be installed on any mobile device running the Android operating system (software version 11 and higher).

After launching the application, the main page will open (Fig. 1).

To get started, you need to click on the button with the Bluetooth symbol.

After connecting the mobile device and the hardware, all buttons in the application will become active as in Figure 1.

Fig 1

It is necessary to create a memory cell to record the data of the vehicle's remote system by pressing the CREATE CELL key.

If you need to select previously saved data, you must select the saved cell by pressing the SELECT CELL key.

After creating a key cell or selecting a previously created one, you must press the NEXT key . The Figure 2 page opens.

Next, you need to select the brand of the car, the radio frequency range of the region, the type of key to be diagnosed. Confirm the selection by pressing the CONFIRM key. The page Figure 3 opens. Information with the name of the cell, the selected type and frequency range of the key will be at the top of the page.

Figure 2

To calculate the data, it is necessary to poll the KEYLESS system of the car and the key. For the system 88, a sequential (in one time period) reading of the key and the car by KEYLESS is necessary (the reading order is not important). For A8, A9 systems, the sequence and moment of reading the KEYLESS system of the car and the key are not important.

Steps:

- Press the KEY SCAN RUN key.
- Wait for a successful reception from the key.
The RID, at the top of the page, will be populated with key data.

In the case of receiving data from one of the LOCK / UNLOCK buttons pressed on the key, the device will offer to calculate the key password by activating the CALC RUN button.

Figure 3.
- If data is received only from KEYLESS, then press the CAR SCAN RUN button.

Go to any car door (with the existing KEYLESS antenna) and activate the request from it by touching the door opening handle. Wait for a successful reception from the car. The device will prompt you to calculate the activation key password

CALC RUN buttons.

Pressing this key will start the procedure for calculating the key password.

Depending on the selected type of remote control system for central locking (88, A8, A9), the testing procedure will take different times (up to 6.5 hours).

At the end of the calculation, the state of the CALC RUN indicator will change

The key becomes active TO KEY MODE.

For testing the KEYLESS system or the REMOTE CONTROL system

It is necessary to press the TO KEYMODE. An inscription will appear on the screen about readiness of key emulation (Fig. 4).

When testing the REMOTE CONTROL system, when you press the control buttons on the virtual key, the opening / closing of the car starts working after the meter is synchronized. When testing the KEYLESS system, the open/close counter must be synchronized with the +100 and +500 buttons located below the key image.

The operation of the device on the KEYLESS channel begins to function immediately after switching the device to KEYMODE .

Figure 4.

Supported Automotive Systems:

Toyota Aurius: 2012 - 2018
Toyota Avensis: 2012 - 2022
Toyota Yaris: 2012 – 2022
Toyota Land Cruiser 200: 2015 – 2021
Toyota Land Cruiser 150: 2018 – 2022
Toyota RAV4: 2012 – 2018
Toyota Camry 2012 – 2022
Toyota Prius 2015 – 2022
Toyota CHR 2016 - 2022
Toyota Alphard 2015 - 2022
Toyota Highlander 2015-2022
Toyota Corolla 2012-2019
Lexus LX570: 2015 – 2022
Lexus NX: 2015 - 2022
Lexus RX: 2015 – 2022
Lexus ES: 2012 – 2022
Lexus IS: 2012 - 2022
Lexus GX: 2018 – 2022

Lexus LS: 2012 – 2022
Lexus RC: 2014 – 2022

Subaru Forester: 2016 - 2022
Subaru Outback : 2016 – 2022
Subaru Legacy: 2016 - 2022
Subaru LEVORG: 2016 - 2022
Subaru XV: 2016 – 2022

Note: *The reception range at a frequency of 433 MHz is about 10-12 meters, the range at frequencies of 312,315 is about 5-6 meters.*