

# AMP V3.3

TOYOTA/LEXUS KEY AMPLIFIER DEVICE



FOR ALL MODELS MY2002-MY2023



➤ **PURPOSE OF THE DEVICE:**

- The AMP device is designed to provide emergency access to Toyota / Lexus vehicles equipped with keyless entry systems.
- Access to such cars is provided by relaying signals from the original smart key.

➤ **SUPPORTED MODELS:**

Toyota / Lexus / Subaru: **all models** 2003-2023 MY.

- **Lexus:** GX, IS, LS, LX, NX, RX.
- **Toyota:** Alphard, Camry, CHR, Fortuner, Highlander, Hilux, Land Cruiser, Land Cruiser Prado, RAV4.

- **SUPPORTED KEY TYPES** - 88, 98, D4,88, 39, A8, A9 (new), AA (new), BA (2020-2023) (new).

- **SUPPORTED FREQUENCIES** - Europe 433MHz (Type 2), America 315MHz, Japan 312MHz (if the option is available).

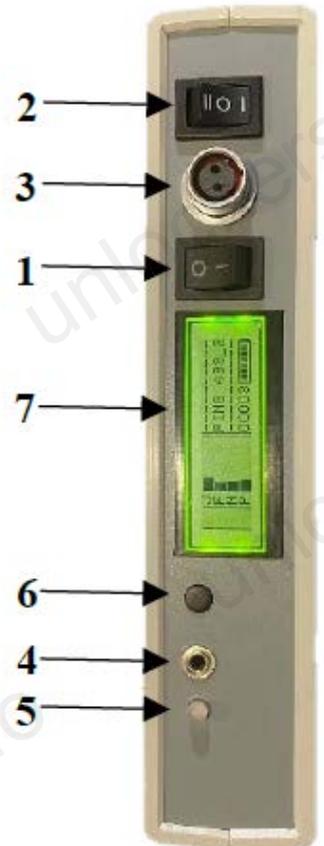


Fig.1

### ❖ TECHNICAL SPECIFICATIONS:

- ✚ Distance between the main unit and the walkie-talkie: **300–500** meters;
- ✚ Distance to the key with internal antenna: **5–6** meters;
- ✚ Distance to the key with an external antenna: **8–12** meters.

### ➤ THE KIT:

- **KeyTester** (Main block);
- **AutoTester** (Walkie-talkie);
- **Antenna** for signal-boosting of the key.

*Attention!!! The device is intended as a temporary solution for emergency use by auto services, dealers, and police personnel. Not designed for permanent use!*

### ➤ DESCRIPTION OF DEVICE OPERATION:

✚ Operation modes provide the ability to work with various types of keys used in different car models. The device operates in automatic mode, but for proper operation and indication of the operating mode, you need to select the settings:

- 1) Select a frequency on the unit by holding the button **(6)** (fig.1) until **315/433/433-2** appears.
- 2) On the walkie-talkie, select a frequency by holding the **RTT** button **(2)** (fig. 2) until **J/U/E** appears.
- 3) On the walkie-talkie, select the key type.

### ❖ FREQUENCY SETTING:

✚ There are six frequency options available.

For systems **A, F, P** only the selected range **315** or **433** (any of the sub-ranges in the group) matters;  
For systems **H, L** (united by **N** symbol for KeyTester) – see. **Tab. 2.**

Pos. No.	Designation in the block (Subrange)	Key type	Continent	Frequency range, MHz	Designation in the Walkie-talkie
1	315_1	88	USA	315	U31
2	315_2	88, A8, A9 (before 2018)	USA	315	U32
3	315_3	A8, A9 (from 2018), AA	USA	315	U33
4	315_4	A8	Japan	315	J34
5	433_1	88, A8 (before 2018)	Europe	433	E41
6	433_2	A8, A9 (from 2018), AA	Europe	433	E42

Tab. 1

Each key operates on two frequencies, with subranges overlapping in frequency. In search mode, scanning occurs on both frequencies of the selected subrange.

There is a situation when the key in search mode does not always respond to queries. This situation means that the **subrange is selected incorrectly**.

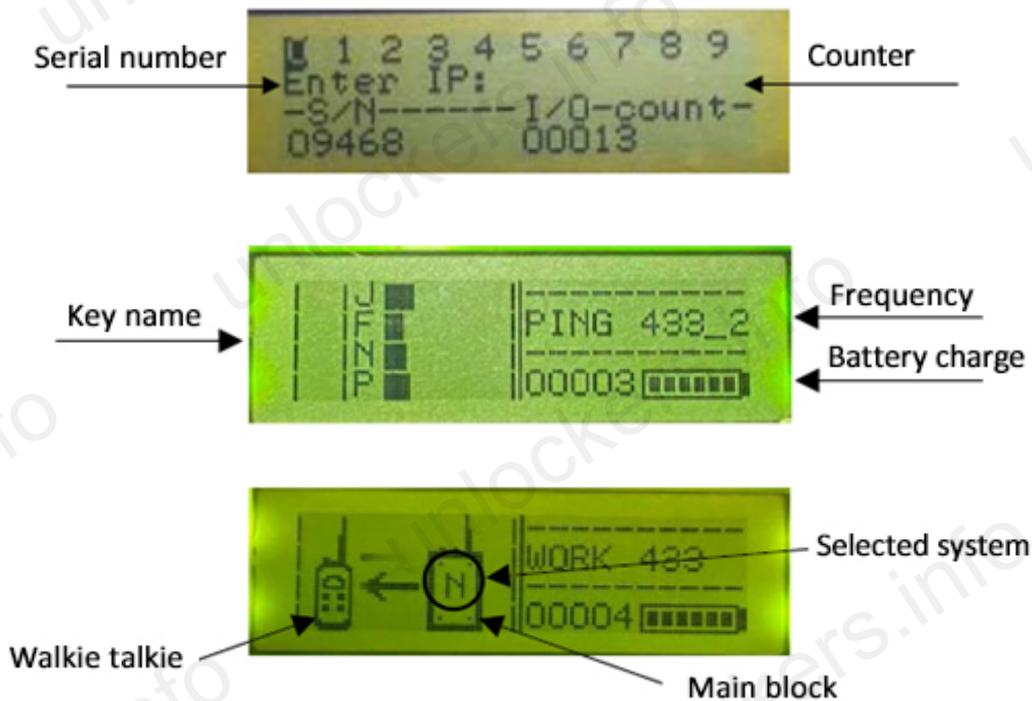
To change the subrange, press and hold the button **6 (fig. 1)** on the KeyTester for 2 seconds. When you hold the button **6 (fig. 1)** for more than three seconds, the range changes from **315** to **433**.

Applicability Table			
Mode (Main block)	Key	Vehicle	Mode (Walkie-talkie)
F	98	LC-150, GX460	F
F	98	LC-200 -2016, LX570 - 2016, (all old cars)	A
N	88	RAV 4, Camry - 2018	H
N	A8	LC-200 2016+, LX570 2016+, NX 2016+	H
N	A9	RX 2015+, LC-200 2018+	L
N-433-2	A9, AA	Camry 2018+, ES 2017+, LC-150 2017+	L or H
P	39	Hilux 2015+, Alphard 2015+, Fortuner 2015+ (probably)	P
N-433-2	AA	RAV 4 2018+, CHR 2016+ (probably)	L or H
J	BA	LC-300 2021+	J

Tab. 2

❖ **KEY TESTER ELEMENTS:**

- 1) ON/OFF switch (1).
- 2) Antenna switch (2) **I** - internal, **II** - external, **0** - disabled.
- 3) Socket for connecting an external antenna (3).
- 4) Headphone jack (4).
- 5) Operating mode indicator LED (green/red/blue) (5).
- 6) Operating mode switch button (6).
- 7) Display indication (7):
  - Device version, serial number, attempt counter.
  - Battery level.
  - **PING/WORK** modes (switching by button).
  - **Mode 433/433-2/315** ( **312** – Japan, if the option is available) - switching is performed by holding the button for 3 seconds.
  - **POWER** indication - power level and response of **F/H/P/J** key.



❖ **AUTO TESTER CONTROL (Walkie Talkie):**

- 1) **On/Off** switch (1).
- 2) **RTT** button (2) - short press of the side button activates the backlight and changes the parameter type: a small symbol **H** or **L** (*don't confuse with the system type*).

«**H**» - the up and down arrow buttons are used to change the system type (left large symbol - **A, F, H, L, P**). Other types have been abolished because they are similar to existing types, but for different frequency ranges. When turned on, the symbol «**H**» lights up.

«**L**» - the up and down arrow buttons are used to change the frequency range. The range is indicated by the symbol **U, J** or **E** and two digits instead of the battery voltage indicator (the battery level is now displayed only by the battery symbol).

- 3) The **CALL** button (3) - switching to **PING** mode.
- 4) The **EMG** button (4) – switching to **WORK** mode.



Fig. 2

Checking the connection between the KeyTester and the AutoTester has been added in this version of the device. Only the AutoTester (walkie-talkie) can be the initiator. This is activated by selecting system "C" on the walkie-talkie in search mode. The block must be in working mode. If there's a connection, both the walkie-talkie and the main block flash a **blue** LED. The symbol "I" will light up on the block's screen.

### ❖ RESTRICTED ACCESS MODE:

If necessary, the device can be locked and unlocked.

To block, you need to turn on the main block (KeyTester) and hold the button (6) (fig. 1) for about 15 seconds until **DEVICE BLOCKED** appears.

To unlock, you need to turn on the block and enter a 5-digit access code using the button. Move the cursor to the required number by briefly pressing the button. Confirm by holding the button until the desired number appears on the display. Proceed to enter the next character. Once the code is entered correctly, the device will turn on.

Charging the battery of the block occurs after connecting two connectors to the charger.

✚ For the walkie-talkie (AutoTester), use only **AA - ALKALINE BATTERY !**

### ❖ DEVICE OPERATION:

- 1) Turn on the main block. Select the antenna type using the switch: **I** – internal, **II** – external (connect external antenna).
- 2) Select frequency mode **433/433\_2/315** by holding the button (6) (fig. 1).
- 3) In **PING** mode, move the block to achieve the maximum **POWER** value. LED indication is blinking **red**. If the **blue** LED blinks, you need to **increase** the distance to the key. The device will automatically determine the type of operation mode and show it on the display.
- 4) Switch **WORK** mode by pressing the button.
- 5) Turn on the walkie-talkie (AutoTester).
- 6) Select the frequency mode by holding down the **RTT (2)** button on the AutoTester (fig. 2).
- 7) Select key type **A/F/H/L/P** – up/down arrow. Blinking **green** LED - **no connection** with the block or the **wrong frequency or system** is selected on the walkie-talkie. Blinking **green** and **red** LED – connection is available, and the settings are selected **correctly**.
- 8) Switch to **WORK** mode by pressing the **EMG** button (3) (fig.2).

### ❖ OPENING THE DOOR:

- 1) Bring AutoTester to the door handle at a distance of 30-40 cm and try to open it.
- 2) If the LED blinks **green** and **red**, the door will open.
- 3) If the LED only blinks **green**, try to open the door and **move** AutoTester until **green** and **red** blink – then the door will open.

### ❖ START:

- 1) Press the START button and move AutoTester to the gear shift knob area.
- 2) If the LED blinks **green** and **red**, the ignition will turn on, and you can start the engine.
- 3) If the LED only blinks **green** – try press START button and **move** AutoTester until **green** and **red** blink – then the ignition will turn on, and you can start the engine.