

JA-163A RB Wireless outdoor battery-powered siren

The JA-163A RB is a component of the **JABLOTRON** system. It is used for system alarm indication outside a building. It can also be used for supplementary acoustic signalling (PG activation, arming, chirps). The siren is powered by just one lithium battery with no other external power. The JA-163A RB includes only the base with the **JA-163A-BASE-RB** PCB, the BAT-100A (BAT-100A.01) lithium battery and always has to be completed with a cover from the **JA-1X1A-C-xx** series (see following table). The siren occupies one position in the system. The product should be installed by a trained technician with a valid certificate issued by an authorized distributor.

For combinations of colour and cover material, see the following table:

Cover type	Colour and cover material	Strobe colour
JA-1X1A-C-GR	Grey plastic	Red
JA-1X1A-C-ST	Stainless steel sheet	
JA-1X1A-C-WH	White plastic	
JA-1x1A-C-AN	Anthracite plastic	Blue
JA-1X1A-C-GR-B	Grey plastic	
JA-1X1A-C-ST-B	Stainless steel sheet	
JA-1X1A-C-WH-B	White plastic	
JA-1x1A-C-AN-B	Anthracite plastic	

Installation

The whole enrolment procedure has to be done in service mode of the control panel. There must be a JA-11xR radio module installed in the control panel.

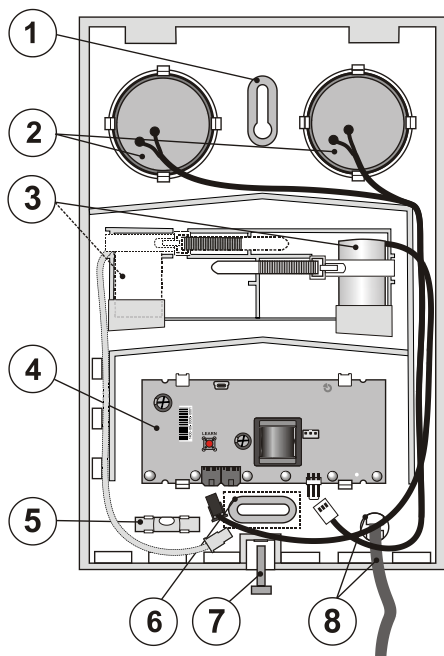


Figure 1: 1 – hole for installing; 2 – piezo sounders; 3 – lithium battery with reusable battery strap (up to 2 batteries can be used); 4 – PCB; 5 – spirit level; 6 – hole for installation with tamper detection; 7 – front cover screw; 8 – string with clip connecting the front cover for easy installation



The siren should be installed on a vertical wall, with the flasher facing downwards. Avoid installing the siren near the gutters and on other places where there is a danger of ice accumulation.

- Attach the siren onto a suitable place using 2 screws through the holes (1) and (6). The spirit level can be used for easy installation (5).
- Connect the lithium battery (3) to the connector (11).
- Proceed according to the control panel installation manual.
Basic procedure:
 - When the battery is connected, the yellow LED (12) indicates by a permanent light that the siren has not been enrolled into the system yet.
 - Go to the **F-Link** software, select the required position in the **Devices** tab and launch the enrolment mode by clicking on the **Enroll** option.
 - Press the button marked **LEARN** (10) – the siren is thus enrolled and the yellow LED indicator goes off.
- Put back the siren cover and attach it using the screw (7).
- Perform siren properties setting, see the following chapter: Internal settings of the siren.

Notes:

- The siren can also be enrolled into the system by entering its production code (9) in the **F-Link** software. You can find the production

code on the sticker, glued on the PCB. All numbers under the bar code shall be entered (1400-00-0000-0001).

- After connecting the battery, it is first de-passivated for about 1 minute. During this time the yellow LED indicator is on, but it is not possible to enroll the siren to the control panel.
- The siren can be powered by up to two batteries and we recommend this when longer siren operation time is required. There is a place prepared for second battery use see Figure 1. Connect the battery to the other connector (11). The battery connection order does not matter.

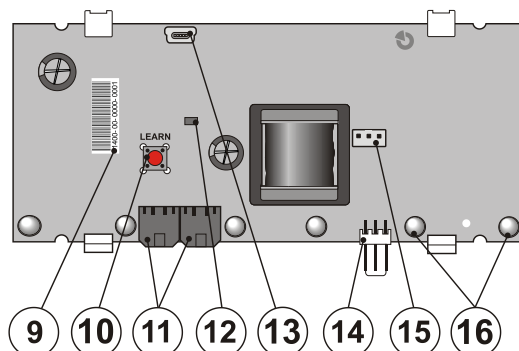


Figure 2: 9 – production code; 10 – LEARN (enrollment) button; 11 – battery connector; 12 – yellow fault indicator; 13 – mini USB connector; 14 – piezo siren connection (attention: high voltage); 15 – external antenna connector; 16 – high intensity red LED flashers

Erasing the siren from system/RESET

Use this procedure when the siren has to be erased from one system and enrolled to another one. Proceed this way:

- The control panel has to be in **Service** mode.
- Open the siren cover and disconnect the battery from its connector.
- Go to the **F-Link** software, **“Devices”** tab, and erase the siren from the control panel and **leave service mode**.
- Connect the battery. Then press and hold the **LEARN** button (10) for approximately 8 sec until the yellow LED (12) starts flashing. Then release the button.
- When flashing expires (2 x 7 flashes) the yellow LED illuminates. This indicates that the siren is not enrolled.

Notes:

- When a reset is done the yellow LED goes off and it means that there is some control panel in the siren's radio range with an open service mode and the enrollment procedure has been performed again and the siren is assigned to that control panel.

FW update

- A FW update can be performed by the **F-Link** software in service mode, but only by a user with **Service** authorisation.
- Start the **F-Link** software and enter service mode.
- Open the siren cover.
- Do not disconnect the battery!**
- Connect a PC to the siren using a mini USB cable.
- FW update mode is indicated by the flickering of the yellow LED.
- Continue as with updating the control panel using **F-Link** software; **F-Link: Control panel → Update firmware**. In the device options select the **USB** option (typically at the first position).
- Press the **OK** button to perform an update of the selected device.
- Disconnect the mini USB cable.
- Close the siren cover.
- Check the siren settings via **F-Link SW, Devices/Internal settings**.
- Test the siren functions.

Notes:

- A mini USB cable is not in the supplied accessories of the siren, control panel or any other device. You can use the cable from the JA-190T card reader. We strongly recommend connecting the USB cable straight to the PC connection as using a USB HUB can reduce the reliability.
- According to the changes which have been done during the update, previous settings might stay or settings could be erased to default. When a reset has been done you can reload the previous settings by the **Import** button and restore them with no negative influence on the new firmware.

Internal settings of the siren

The siren properties can be set in the **Devices** window of the **F-Link** software. When at the siren position, use the **Internal settings** option to open a dialog window, internal setting is separated into 2 tabs: **Settings** and **PG indication** (default settings are marked *):

Settings tab:

Acoustic indication of an intrusion alarm from sections: to set for which sections the siren should indicate an alarm, as well as setting the chirps. The default setting is indication for all sections disabled.

Reaction: defines whether the siren should indicate **EW*** (external warning) or **IW** (internal warning). Alarm indication can also be disabled completely (other functions remain enabled).

