

G-LAB
GUITAR LABORATORY

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WOWEE-WAH



- User Manual
- Mode d'emploi
- Instrukcja obsługi
- Bedienungsanleitung

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Dear Customer!

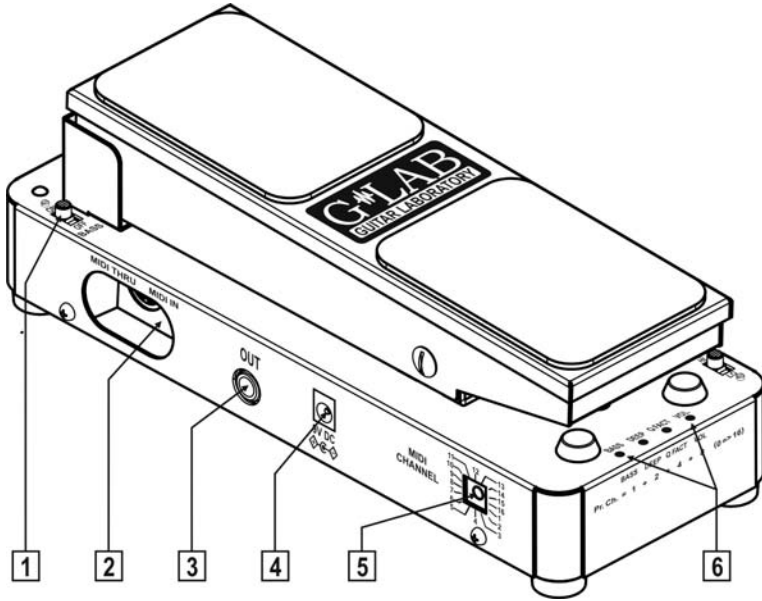
Thank you for choosing our product.

MIDI WOWEE WAH MWW-1 is a classic analog wah-wah effect enabling to set the tones and featuring new and comfortable switching mode. MIDI interface enables fast switching of the tones by using any MIDI controller (e.g. G LAB GSC).

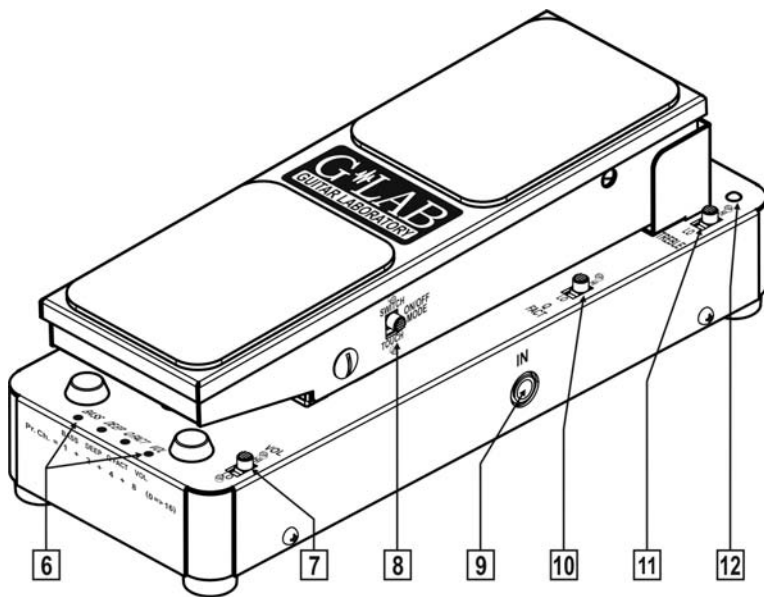
Basic characteristic:

- Full analogue circuit with an increased voltage, which ensures functionality without distortion and a lower noise level.
- Photo element instead of potentiometer, which ensures smaller resistance to motion (thanks to that, the smaller effort allows you to operate the pedal faster) and greater reliability.
- BASS switch (LOW – bass attenuation like in typical wah-wah, HIGH – without bass attenuation).
- DEEP switch to control the depth of the resonance circuit functionality.
- Q FACTOR switch (quality factor of the resonance circuit) decreases boosting of resonance frequency.
- VOLUME switch to control the output signal level.
- Two ON/OFF switching modes: classic with the use of the switch located in front of the pedal (SWITCH mode), or our new mode, simple by placing the foot on the wah-wah pedal (TOUCH).
- Clickless TRUE BYPASS circuit that is based on photo resistors.
- Two backlighted indicators (on the left and right side of the wah-wah) visualising active mode of the wah-wah effect (yellow colour) to make it easy for you to find the wah-wah on a dark stage.
- MIDI IN connector to control the wah-wah by Program Change and Control Change commands.
- MIDI THRU connector with copy of the signal from MIDI IN connector.
- Regulation of the resistance to motion force.
- Powder coated case and stainless steel elements.
- 9V supply from regulated adapter (9V DC, current consumption 30 mA).

Structure



- 1 - BASS HI/LOW switch
- 2 - MIDI IN and MIDI THRU connectors
- 3 - OUT connector
- 4 - 9V DC power supply connector
- 5 - MIDI IN channel switch
- 6 - Functions indicators
- 7 - VOLUME HI/LOW switch
- 8 - ON/OFF mode switch
- 9 - IN connector
- 10 - Q FACTOR HI/LOW switch
- 11 - DEEP HI/LOW switch
- 12 - Effect active mode indicators

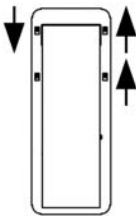
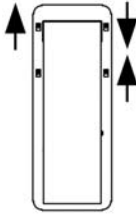
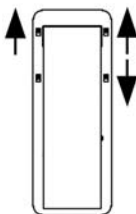


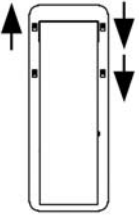
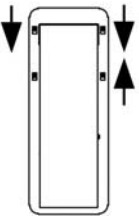
Switches' functions

- BASS** – Switch
LOW – bass attenuation like in a classic wah-wah,
HIGH – without bass attenuation,
- DEEP** – Switch changing the effect intensity,
HIGH position – decreases the signal level of the frequencies behind the resonance what increases effect intensity in all range of pedal regulation, a side effect is attenuation of the signal (it is recommended to set VOL switch on HIGH position),
- Q FACTOR** – Quality factor of the resonance circuit switch,
HIGH position - increases resonance signal level especially of low part of the regulation band (high pedal positions) what intensifies the wah-wah effect,
- VOLUME** – Volume of the effect signal,
HIGH position – increases the signal by 3,5dB

- ON/OFF MODE** – Switching mode switch:
 SWITCH position – classic mode by using of the switch located in front of the pedal,
 TOUCH position – pressure activated mode by placing the foot on the wah-wah

Basic ideas of the tone switches' settings

sound	BASS	DEEP	Q FACT	view	description
clean	LO	HI	HI		Classic, deep wah-wah effect with bass attenuation.
crunch	HI	LO	HI		High intensity of the wah-wah effect on low part of the regulation band, VOL=HI position – boosts the signal for more overdrive.
	HI	HI	LO		Low intensity of the wah-wah effect on low part of the regulation band, reducing choking of the gain by low frequencies of regulation.

high overdrive	HI	LO	LO		Low intensity of the wah-wah effect assuring its legibility, VOL=HI position – boosts the signal for more overdrive
	LO	LO	HI		High intensity of the wah-wah effect on middle and low part of the regulation band, VOL=HI position – boosts the signal for more overdrive.

If MWW-1 is controlled by MIDI interface switching of any of the tone switches causes setting of the tone defined by the switches mode.

Power supply

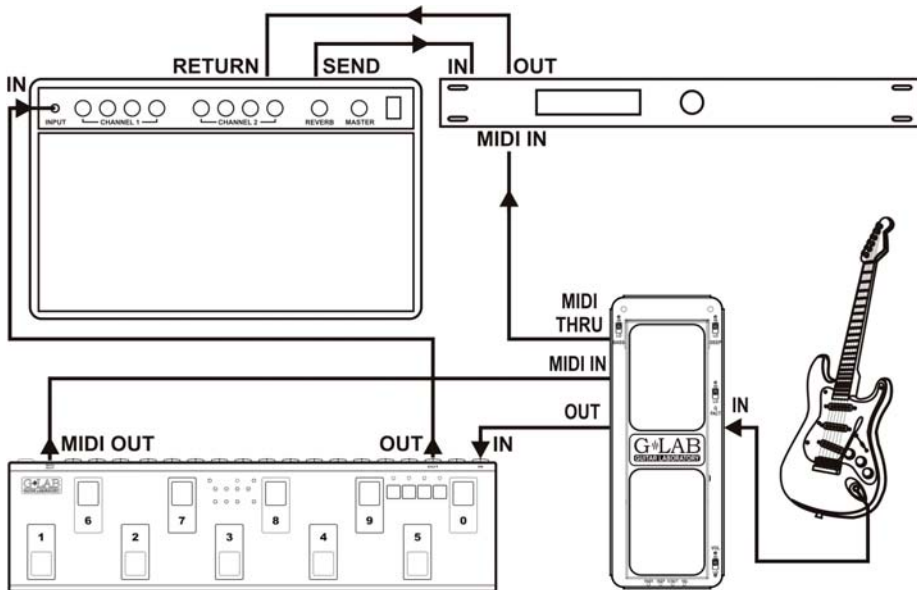
It is recommended to supply the WOWEE-WAH from 9V DC regulated adapter with a capacity of 30 mA or more. Before plugging the adapter please check the pin polarization „CTR –” (center negative).



ATTENTION: Damages caused by improper power supply causes the loss of the warranty.

Connecting to a gear

It is recommended to connect WOWEE-WAH between the guitar and amp, and if using other guitar effects between the guitar and stompboxes.



MIDI channel setting

To set a MIDI channel on which the MWW-1 receives the commands serves MIDI CHANNEL rotatable switch. To change the channel use a small screw and turn it a little right or left. The arrow-head indicates set channel (A, B, C, D, E, F letters correspond with 10, 11, 12, 13, 14, 15 channels numbers and “0” digit indicates channel No. 16).

Controlling via MIDI commands

MWW-1 can be controlled by Program Change and/or Control Change commands. The Program Change number should be counted by following formula:

$$\text{Prog. Change} = 1 \text{ (if BASS = HI)} + 2 \text{ (if DEEP = HI)} + 4 \text{ (if Q FACT. = HI)} + 8 \text{ (if VOL. = HI)}$$

If all the functions are set on LOW the Prog. Change = 16

BASS	DEEP	Q FACT.	VOLUME	PROGRAM
LO	LO	LO	LO	16
HI	LO	LO	LO	1
LO	HI	LO	LO	2
HI	HI	LO	LO	3
LO	LO	HI	LO	4
HI	LO	HI	LO	5
LO	HI	HI	LO	6
HI	HI	HI	LO	7
LO	LO	LO	HI	8
HI	LO	LO	HI	9
LO	HI	LO	HI	10
HI	HI	LO	HI	11
LO	LO	HI	HI	12
HI	LO	HI	HI	13
LO	HI	HI	HI	14
HI	HI	HI	HI	15

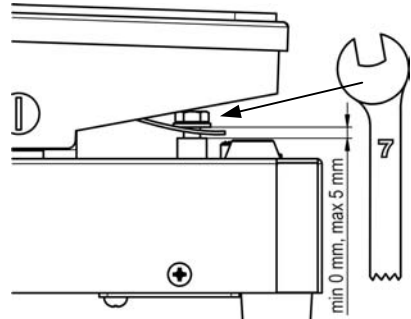
The table below shows numbers and functions of Control Change commands. Controllers from 104 to 107 serve to control individually each function and controller number 86 functions similarly to the Program Change command.

Controller's Number	Function	Value
104	BASS	0-63 = LOW 64-127= HI
105	DEEP	0-63 = LOW 64-127= HI
106	Q FACT.	0-63 = LOW 64-127= HI
107	VOLUME	0-63 = LOW 64-127= HI
86	SET ALL	Prog Chang number

Regulation of the resistance to motion force

MIDI WOWEE-WAH posses the ability to adjust the resistance to motion force by using the spring set screw.

For regulation it is needed to use the 7 mm open ended spanner. Screwing in of the screw increases the resistance to motion



ATTENTION: Do not screw out the screw more than indicated on the picture.

Technical parameters

Dimensions	width	99 mm
	depth	250 mm
	height	85 mm
Weight		1,4 kg
Power supply		9V DC (8,7 do 9,4V, regulated)
Current consumption		30 mA

EMC/EMI & Certificate of conformity

EMC/EMI

This device has been designed and manufactured to conform with directives and standards in the field of safety operations and electromagnetic interference.

This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However in spite of performing below standards there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception which can be determined by turning the device on and off, the user is encouraged to try to correct the interference by one or more of the following operations:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Contact with the manufacturer.
- Consult the dealer for help.

Certificate of Conformity

ELZAB S.A., ul. Kruczkowskiego 39, 41-813 Zabrze, Poland,
hereby declares on own responsibility that the following product:

MIDI WOWEE-WAH (G LAB MWW-1)

that is covered by this certificate and marked with CE 07 label conforms with following standards:

- | | |
|--------------------|--|
| PN-EN 60065:2004 | Safety requirements for mains operated electronic and related apparatus for household and similar general use |
| PN-EN 55103-1:1998 | Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use. Part 1: Emission. |
| PN-EN 55103-2:1998 | Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use. Part 2: Immunity. |

with reference to regulations in following directives:
73/23/EEC, 2004/108/EEC

Issued in Zabrze, April 2009

Jerzy Biernat

President of the ELZAB S.A. Board of Directors



DO NOT PLACE THIS PRODUCT INTO THE WASTE CONTAINER !

This device is marked with a cross-lined waste container symbol according to 2002/96/EU Directive on Waste Electric and Electronic Equipment.

Such marking informs that after usage equipment can not be trashed together with other household waste.

An user obligation is to return wasted equipment to a party collecting wasted electric and electronic equipment. Parties collecting such equipment organise a system, including local collection points, shops and other units, allowing to return such equipment. This Directive assures an user free of charge utilisation of such delivered equipment.

This device is made of materials which can be recycled or utilised after becoming out of use. Proper handling of wasted electric and electronic equipment reduce demand for row materials and contribute in avoiding harmful consequences for environment and health of people caused by dangerous components and not proper storing and utilising of such equipment.



G LAB is a brand of ELZAB SA

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