

TIDY CHORUS TCH-1



Bedienungsanleitung

Table of contents

Structure	4
Power supply	7
Way of connecting	8
GAIN switch	10
Footswitches	
Chorus tone setting	10
MIDI controlling	12
Technical parameters	13
FCC Compliance	14
Declaration of Conformity	

Dear Customer!

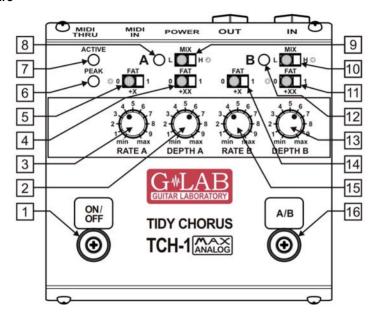
Thank you for choosing our product.

G LAB Tidy Chorus (TCH-1) is a classic chorus effect with wide range of chorus tone settings. In the device is applied the G LAB MAX ANALOG technology what means that in the signal path are used discrete components and classic LFO and VCO analog circuit innovatively controlling the 24 bits DSP processor. It enabled to obtain chorus FAT setting function and to get very clear and deep chorus tone to be used on clean and overdrive guitar. TCH-1 can be used with electric and bass guitars.

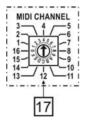
Basic features:

- Two sets (A and B) of chorus effect regulators and switches
- Analog MIX switch of the mixed signal proportion
- +X and +XX effect FAT switches
- Classic analog chorus RATE and DEPTH regulators
- PEAK indicator
- Low noise and non-linear distortion levels
- Two footswitches: effect ON/OFF and chorus A/B
- GAIN input sensitivity range switch
- MIDI input for connecting foot controllers e.g. G LAB GSC.

Structure

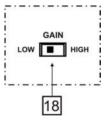


- 1 ON/OFF footswitch
- 2 CHORUS A DEPTH regulator
- 3 CHORUS A RATE regulator
- 4 FAT +XX CHORUS A switch
- **5 -** FAT +X CHORUS A switch
- 6 PEAK indicator
- **7 -** ACTIVE effect ON indicator
- 8 CHORUS A indicator

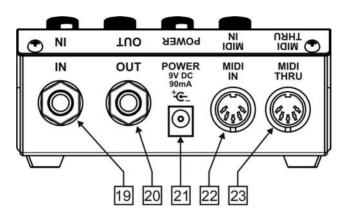


17 - MIDI channel switch

- 9 MIX A proportion switch
- 10 MIX B proportion switch
- 11 FAT +XX CHORUS B switch
- 12 CHORUS B indicator
- 13 CHORUS B DEPTH regulator
- 14 FAT +X CHORUS B switch
- 15 CHORUS B RATE regulator
- 16 CHORUS A/B switch



18 - GAIN - sensitivity switch



- 19 IN signal connector
- 20 OUT signal connector

- 21 9V power supply connector
- 22 MIDI IN input
- 23 MIDI THRU output

Power supply

The TCH-1 should be supplied from external regulated 9V DC power supply, with capacity of 90 mA or more. It is recommended to use separated source e.g. G LAB PB-1 in order to avoid ground loop. Before connecting please check if the connector's polarization is CTR – (center negative).

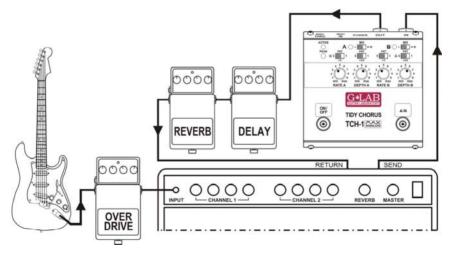


The TCH-1 is protected against opposite polarity. If this protection activates it is needed to disconnect the power supply and wait few minutes before reactivation of the device.

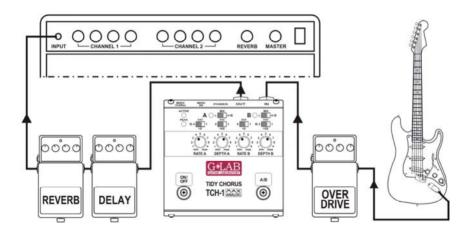
ATTENTION: Damages caused by improper power supply causes loss of the warranty.

Way of connecting

It is recommended to connect the TCH-1 to the amp effect loop before delay and reverb type effects. This connection mode is required if you play on amp overdriven channels.



If you use for overdriven tones only the stompboxes the TCH-1 should be connected after overdrive and distortion effects and before delay and reverb effects.



GAIN switch

GAIN switch with help of PEAK indicator enables to match the chorus sensitivity to the signal. It is recommended to set GAIN switch to HIGH position, switch on the chorus effect and check if PEAK indicator lights while playing (especially on clean tone). If it does, the GAIN switch should be set to LOW position.

In the HIGH range the maximum input signal is +5 dBu (+2,8 dBV) and in the LOW range it is +10 dBu (+8 dBV).

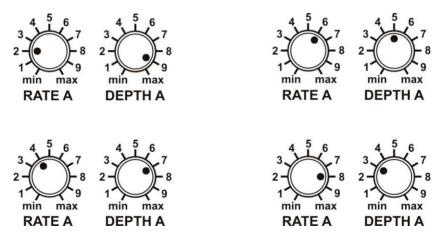
Footswitches

The TCH-1 features effect ON/OFF and chorus A/B selection footswitches. ACTIVE indicator signalizes state of the effect and A and B indicators signalize selected chorus type.

Chorus tone setting

To set the chorus tone serve MIX, FAT +X, FAT +XX switches and RATE and DEPTH regulators. The MIX switch on LOW position enables to obtain the chorus effect of lower intensity (to the dry signal is added the effect signal with an amplitude of 50% of dry signal). On HIGH position the proportion between dry and effect signals is one to one what enables to get maximum intensity of the chorus. Decreasing the intensity of the chorus effect with the MIX switch has completely different result in the sound than 10

decreasing the DEPTH. The FAT +X and FAT +XX switches enable to match the "weight" of the chorus tone by changing the delay time of the modulated signal. The RATE regulator sets the speed of the modulation and the DEPTH regulator enables to set the depth of the modulation. Setting the low speed of the modulation requires setting the high depth of the modulation and vice versa e.g.



MIDI controlling

To set the MIDI channel on which the TCH-1 receives the commands serves the MIDI CHANNEL rotary switch. To set the channel it is needed to use a small, flat screwdriver and to turn right or left the middle part of the switch. The arrow-head indicates selected channel.

The TCH-1 can be controlled by Program Change and/or Control Change commands.

The tables below show the functionality of Program Change and Control Change commands.

PRG CHANGE	FUNCTION		
1	BYPASS		
2	CHORUS A ON		
3	CHORUS B ON		
4	SELECTED CHORUS ON		
5	BYPASS AND SELECT CHORUS A		
6	BYPASS AND SELECT CHORUS B		

CTRL CHANGE		FUNCTION		
No.	VAL	FUNCTION		
112	1	BYPASS		
	2	CHORUS A ON		
	3	CHORUS B ON		
	4	SELECTED CHORUS OF		
	5	BYPASS AND SELECT CHORUS A		
	6	BYPASS AND SELECT CHORUS B		

Technical parameters

Dimensions: depth 120 mm

width 120 mm

height 60 mm

Weight 0,56 kg

Input impedance 1 $M\Omega$

Maximal input signal

GAIN HIGH +5 dBu (+2,8 dBV)

GAIN LOW +10 dBu (+8 dBV)

Output impedance 600Ω

Power supply 9V DC (8,7 to 9,4V regulated)

Current consumption 90 mA

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, 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, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Declaration of Conformity

ELZAB S.A., ul. Kruczkowskiego 39, 41-813 Zabrze, Poland, declare under sole responsibility, that the following product:

G LAB/TIDY CHORUS TCH-1 (G LAB TCH-1)

conforms with requirements of the EC Council Directives:

- 2006/95/EEC Low Voltage Directive,
- 2004/108/EEC Electromagnetic Compatibility,

and holds CE mark. Above named product conforms with the following standards:

- PN-EN 60065:2004 /EN 60065:2002/ Audio, video and similar apparatus -Safety requirements.
- PN-EN 55103-1:2000 /EN 55103-1:1996/ Electromagnetic compatibility Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use Part 1: Emission
- PN-EN 55103-2:2001 /EN 55103-2:1996/ Electromagnetic compatibility-Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 2: Immunity

Jerzy Biernat

President of the ELZAB S.A. Board of Directors
Copy of original EC declaration of conformity is available for download on our
webside http://www.glab.com.pl



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 organize a system, including local collection points, shops and other units, allowing to return such equipment. This Directive assures an user free of charge utilization of such delivered equipment.

This device is made of materials which can be recycled or utilized 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 utilizing of such equipment.



G LAB is a brand of ELZAB SA

COMPANY ADDRESS

ELZAB SA

ul. Kruczkowskiego 39, 41-813 Zabrze, Poland phone: +48 32 272 20 21, fax: +48 32 272 81 90

Sales & Export Department

phone: +48 32 272 30 51 ext. 39, 64

+48 32 272 20 21 ext. 308, 468

e-mail: glab@glab.com.pl

Technical Support

phone: +48 32 272 30 51 ext. 64

+48 32 272 20 21 ext. 308

e-mail: help@glab.com.pl

G75TIN00