ABY-BABY MANUAL

TheGigRig Ltd ABY-BABY Manual, June 2024

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1. Introduction

TheGigRig ABY BABY is a powerful yet compact ABY splitterthat offers a buffered or true-bypass A output, and a buffered, isolated, phase reversible B output. You can select the outputs individually or flip/flop between them. It also features our own OptoKick footswitches designed for extreme durability. ABY BABY has been designed to work with anything from standard passive instrument signal levels to higher output line levels

ABY BABY FOOTSWITCH A: Activates output A
FOOTSWITCH B: Activates output B
INPUT: Plug in here
POWER: Uses a standard 9VDC 2.1mm centre negative power supply
OUT A PASSIVE: This is the non-buffered output
OUT A BUFFERED: This is the buffered output
OUT B ISOLATED: Isolated output
FLIP/FLOP: Push (button in)nto flip/flop between outputs A and B, disengage (button out) for independent control
OUT B PHASE: Flips the phase on output B
EARTH LIFT: Enables you to lift the earth on output B

2. In Operation

Connect standard 9V DC centre negative 2.1mm plug power supply that is capable of delivering at least 150mA.

Connect your signal to the INPUT. Connect your first amp to either the buffered or true bypass A output.

PLEASE NOTE - The A output is your main earth / ground connection so please ensure you plug this in first. Connect your second amp to the B output. Use the OptoKick footswitches to select the amplifiers you want.

The FLIP/FLOP button gives you the choice of either:
Standard Operation where the footswitches operate independently (FLIP/FLOP off = blue LEDs). Press footswitch A to turn on output A, press footswitch B to add output B.

FLIP/FLOP Operation (FLIP/FLOP on = red LEDs). Turning on output B will automatically disengage output A and vice versa.

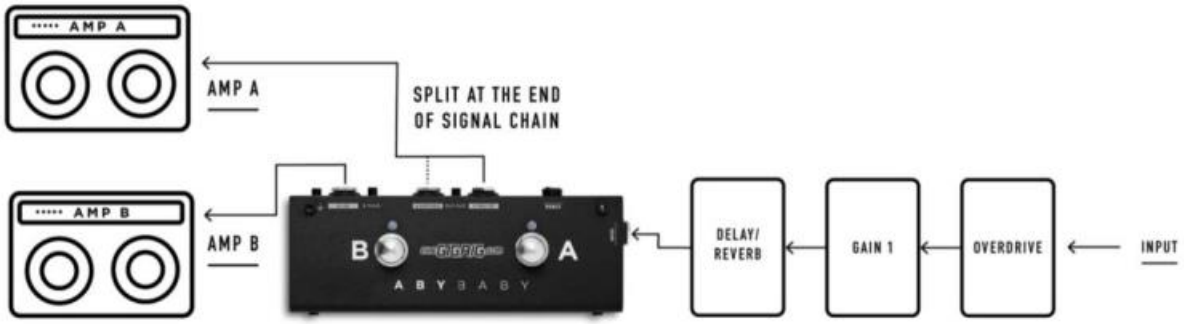
PHASE:
Output B features a phase switch. This will reverse the phase on Output B relative to the phase on output 1. With both amps on, toggle the phase switch to see which position has more bottom end and volume. The position that has more bottom end will mean both amplifiers are in phase.

EARTH LIFT: Output B features an earth lift switch. With this button pushed in, your signal earth is connected through output B. With this button depressed (button out), your earth/ground is lifted. This results in isolation between output A and output B. This can help with any earth loop noise you get from connecting two amplifiers together

PLEASE NOTE: Output B is an exact mirrored image of output A and the phase switch works regardless of the configuration of the earth lift button.

3. Set Up Examples

STANDARD AMP SWITCHING:
The most common way to set up the ABY BABY is to position it at the very end of your signal chain, enabling you to select which amp you want to use. You can switch between two different sounding amps, or simply bring in the second amp for solos.



TPS WET/DRY: You can use ABY BABY to split the signal path. Agreat example of this is a TPS WET/DRY setup. The signal is split after the gain stages, the B ISOLATED output is sent to your dry amp, and the A BUFFERED/PASSIVE output is sent to your wet effects (delay, reverb, etc.), and then to your wet effects amp. It's a great way to get faux stereo sounds from what is essentially a dual mono signal path

There are loads of different ways you can set this up, and the fact that you can reverse the relative phase, lift the earth, and easily select which output you want means that it will work as a signal splitter in any situation.

4. Technical Specifications

Supply Voltage: 9V DC
Supply Current: Max = 150mA at 9V
Input Signal Levels: +/- V (18V peak headroom)
Output A Passive:
Output impedance is the same as source impedance (true bypass)
Frequency response: 5Hz to 100Khz, into 1M Ohm
Output A Buffered:
Input impedance 680K Ohm
Low Noise: 3nV/√Hz
Output impedance 100 Ohm
Frequency response: 7Hz to 100Khz, into 1M Ohm
Output B Isolated:
Input impedance 680K Ohm
Low Noise: 3nV/√Hz
Output impedance 100 Ohm Frequency response at guitar levels 5Hz to 100KHz
OptoKick optical footswitches – zero mechanical switching

5. Warranty

The GigRig warrants the product to be free from defects in material and workmanship for a period of 2 years from the original date of purchase.

If the product fails within the warranty period, The GigRig will repair or, at our discretion, replace the product and cover the cost of return shipping to the original purchaser. This warranty covers defects in manufacturing discovered while using this product as recommended by The GigRig. This warranty does not cover loss or theft, nor does the coverage extend to damage caused by misuse, abuse, unauthorized modification, improper storage, lightning, or natural disasters.

Damage caused by any of the above circumstances may result in a non-warranty repair fee. Legal: In the case of malfunction, the purchaser's sole recourse shall be repair or replacement, as described in the preceding paragraphs. The GigRig will not be held liable to any party for damages that result from the failure of this product. Damages excluded include, but are not limited to, the following: lost profits, lost savings, damage to other equipment, and incidental or consequential damages arising from the use, or inability to use this product.

In no event will The GigRig be liable for more than the amount of the purchase price, not to exceed the current retail price of the product. The GigRig disclaims any other warranties, express or implied. By using the product, the user accepts all terms herein.

Disposal: TheGigRig contains no batteries or Lead. Return the unit to TheGigRig Ltd for disposal or use standard disposal for electrical equipment recommended in your country. Do not dispose of electrical equipment in household waste!

The GigRig and its Power supply are RoHs compliant.
Tested and compliant to EN 60950 safety standard.
The power supply is approved to all USA and European
Regulations including UL. See separate instructions supplied with the power supply

Manufacturer: The GigRig Ltd, Unit 15 Whitehill Industrial Pk, Royal Wootton Bassett, SN4 7DB
Authorised Representative: EAS - Mustamäe tee 50, 10621 Tallinn, Estonia
Warning: For indoor use only. Keep away from water. Keep away from Children.