



Skyinbow Pure Acoustic Duo-Power IIB Balanced Active Transducer System Owner's Manual

Thank you for purchasing the Skyinbow Pure Acoustic Duo-Power IIB Balanced Active Transducer System.

In order to get the best results from your new system, please read this Owner's Manual carefully as it outlines the operation of your Duo-Power IIB Active Transducer System.

This Quick Start Guide assumes that you have already fitted your Duo-Power IIB Balanced Active Transducer System to your instrument. If you have not done so, please see the Fitting Guide for your particular instrument.

The Duo-Power IIB's preamplifier automatically switches on when a jackplug is inserted, detects where its power is coming from and configures itself to optimise operation with that power. Please note that only one source of power can be used at any one time.

These instructions apply to both integrated and component active transducer systems.

SECTION 1

The Onboard Rechargeable System Power Source

In the Duo-Power IIB the original Skyinbow Pure Acoustic onboard rechargeable supercapacitor power source has been completely redesigned and upgraded using the latest power management techniques, technology and circuit design from within the computer industry. In addition to the 9V (PP3) battery recharging option that we have offered since 2005, this redesign now allows Skyinbow to offer more sustainable and environmentally friendly methods of recharging the System Power Source by using either a 9V/1Amp **Centre Positive** power supply, or a **Centre Positive** USB to 9V/1Amp Voltage Converter Cable (requires a 5V/2Amp USB mobile phone/tablet charger or power bank). Purchasers of Power Series Active Transducer Systems can now specify any one of these recharging options at time of purchase.

When you order your Skyinbow Pure Acoustic Duo-Power IIB Active Transducer System you will have the option of specifying the following system recharge cables:

- BATTSRC (a 9V (PP3) battery clip connected to a ¼" TRS (Tip- Sleeve) jack plug)
- USBSRC (a USB voltage converter cable connected to a ¼" TRS (Tip- Sleeve) jack plug)
- 9VPSR (a 9V power supply connected to a ¼" TRS (Tip- Sleeve) jack plug)

If you order a ADPTSRC adapter cable (a DC jack socket connected to a ¼" TRS (Tip- Sleeve) jack plug) with the BATTSRC option that will also be included.

Charging/Recharging The Onboard System Power Source

Method 1 – BATTSRC (Requires a 9V Battery)

1. Plug a new or known good 9V battery into the BATTSRC battery Clip.
2. Plug the BATTSRC's TRS jack into the output socket of your Duo-Power IIB and leave it there for two minutes.
3. Remove the BATTSRC from the output jack of your Duo-Power IIB. The system should now be fully-charged. Although you can expect approximately 8 hours of continuous operation from a full charge we do recommend that you recharge the Duo-Power IIB before each performance just in case your battery is running low and not fully-charging the capacitor.

Please note that a 9V battery will “run down” over time, and eventually will lose the ability to fully-charge or recharge the supercapacitor. If you feel either that the continuous operating time of your Duo-Power IIB is decreasing, or that the output volume level is dropping, please replace the 9V battery as soon as possible. Ideally, you should always carry a spare PP3 battery just in case.

Method 2 – 9VPSRC (Requires a 9V Power Adapter)

1. Plug the 9VPSRC's TRS jack into the output socket of your Duo-Power IIB and leave it there for two minutes for a full charge from empty.
2. Remove the SRC from the output jack of your Duo-Power IIB. The system should now be fully-charged. Although you can expect approximately 8 hours of continuous operation from a full charge we do recommend that you recharge the Duo-Power IIB before each performance just in case your battery is running low and is not fully-charging the capacitor.

Method 3 – USBSRC (Requires a 5V/2A Mobile Phone or Tablet Charger or Power Bank)

1. Plug the USBSRC's TRS jack into the output socket of your Duo-Power IIB and leave it there for one to two minutes for a full charge.
2. Remove the USBSRC from the output jack of your Duo-Power IIB. The system should now be fully-charged. Although you can expect approximately 8 hours of continuous operation from a full charge we do recommend that you recharge the Duo-Power IIB before each performance.

Method 4 – ADPTSRC

This method requires either a **Centre Positive** USB to 9V/1Amp Voltage Converter Cable and a 5Volt/2Amp USB mobile phone/tablet charger or power bank), or a 9V/1Amp **Centre Positive** power supply.

1. Plug either the 9V powers supply or the USB voltage converter cable into the ADPTSRC and proceed as in either Method 2 or 3 above.

Method 4 – In Case Of Emergency (Requires a Guitar Lead And a 9V Battery)

3. This method requires a 9V (PP3) battery and a standard TS (Tip-Sleeve) jack guitar/instrument lead, and allows you to charge your Duo-Power IIB even if you've left your SRC cable, power supply, charger or power supply at home.
4. Plug the TS jack lead into the output socket of your Duo-Power IIB.

5. Hold the positive (small) terminal of the 9V battery against the Tip of the jack on the other end, and the negative (large) terminal against its Sleeve
6. Hold the 9V battery in that position for one to two minutes.
7. The system should now be fully-charged. Although you can expect approximately 8 hours of continuous operation from a full charge we do recommend that you recharge the Duo-Power IIB before each performance just in case your battery is running low and is not fully-charging the capacitor.

Using The Onboard Rechargeable System Power Source – Unbalanced Output

If you wish to connect your Duo-Power IIB to an effects pedal, amplifier, mixing console, audio interface, multi-effects unit, wireless transmitter, or any other unit that has an unbalanced input you should use a standard TS (Tip-Sleeve) guitar lead.

Guitar leads are readily available in various lengths from both online and bricks-and-mortar musical instrument retailers.

To switch on the power to your Duo-Power IIB, plug one end of the TS lead into its output jack socket. This switches in the Rechargeable System Power Source. When your Duo-Power IIB is running under rechargeable system power with a TS lead connected, it will provide an unbalanced output signal.

You can then plug the other end of your TS lead into the instrument input of your effects pedal, amplifier, mixing console, audio interface, multi-effects unit, wireless transmitter,

If you wish to connect your Duo-Power IIB to a balanced XLR microphone level input using the TS lead, we recommend the use of a DI box, either passive or active.

Using The Onboard Rechargeable System Power Source – Balanced Output

Component Systems Only – For fully-balanced operation please use a stereo (TRS-TRS) jack to jack lead to connect the output of your transducer to your preamplifier's input.

If you wish to use the rechargeable system power source and to connect your Duo-Power IIB directly to the balanced XLR microphone input of a mixing console, audio interface, multi-effects unit, acoustic instrument amplifier or any other unit with a balanced microphone input. you should use a ¼" TRS (Tip-Ring-Sleeve) jack to male XLR connector cable.

Some mixers and audio interfaces use TRS jack sockets instead of XLR sockets as microphone inputs. If you wish to connect to one of those, you can use either a TRS to TRS lead or a TRS to male XLR lead (as above) with a female XLR to male TRS jack adapter.

Both these cables and the XLR-TRS jack adapter are readily available in various lengths from both online and "bricks-and-mortar" musical instrument and PA system retailers.

To switch on the power to your Duo-Power IIB, plug the TRS jack into its output jack socket. This switches in the Rechargeable System Power Source. When your Duo-Power IIB is running under rechargeable system power with a TRS to XLR lead connected, it will provide a balanced output signal. You can then plug the male XLR into the microphone

input of your mixing console, audio interface, multi-effects unit, acoustic instrument amplifier

If you need to plug or unplug your Duo-Power IIB whilst it is connected to a mixing console etc., please ensure that that input has been muted before doing so.

SECTION 2

Using 48V Phantom Power

Component Systems Only – For fully-balanced operation please use a stereo (TRS-TRS) jack to jack lead to connect the output of your transducer to your preamplifier's input.

To use your Duo-Power IIB with 48V phantom power, you will need a ¼" TRS (Tip-Ring-Sleeve) jack to male XLR connector cable to link your Duo-Power IIB to a balanced XLR microphone input on your mixing console, audio interface, acoustic instrument amplifier etc. and ensure that phantom power supply to that input has been switched on

These cables are readily available in various lengths from both online and "bricks-and-mortar" musical instrument and PA system retailers.

To use 48V phantom power simply plug the TRS jack into the output socket of your D-PWR IIB, plug the male XLR connector directly into a microphone-level XLR input on your mixing console etc, and ensure that the phantom power supply to that input is switched on.

Your Duo-Power IIB will automatically sense the presence of 48V phantom power and its preamplifier will switch on immediately.

When running under 48V phantom power, your Duo-Power IIB produces an electronically balanced output signal, which ensures maximum sound fidelity.

When plugging in your Duo-Power IIB whilst it is connected to a mixing console etc. input with active phantom power, please ensure that that input (or the whole console) is muted.

NB - 48V Phantom Power Cannot Recharge The Onboard Rechargeable System Power Source.

If you have any questions or come across any issues in using your Pure Acoustic Duo-Power IIB Active Transducer System, please check out our website or contact us directly by either email or telephone. We will be only too pleased to assist you.

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