

AB2C - Bidirectional Stereo Audio Interface

The Quest AV model AB2C interfaces seamlessly between domestic, semi-professional and professional audio equipment.

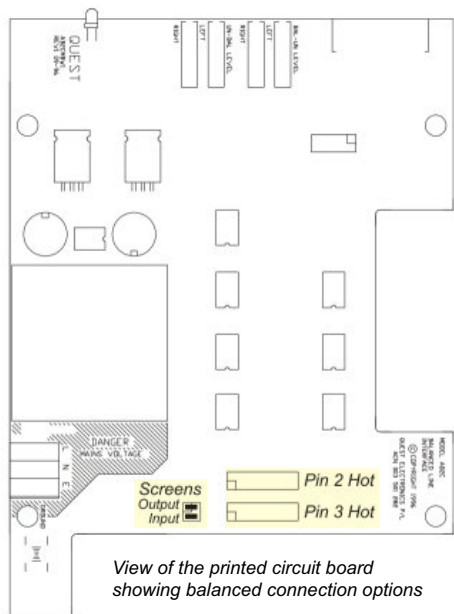
Balanced I/O: To eliminate the phase shift, distortion and hum pickup of traditional passive audio transformers the AB2C has active balanced line level inputs and outputs. They can be used in any combination of balanced and unbalanced without adjustment because the AB2C's circuitry compensates automatically.

Unbalanced I/O: Four phono sockets on the front panel and two stereo mini-jack sockets on the rear panel are provided for the low level inputs and outputs. The phono and mini-jack outputs can be used simultaneously without affecting each other. The phono and mini-jack inputs are actively mixed 1:1 making the AB2C a very versatile tool. The unbalanced to balanced and balanced to unbalanced sections may be used independently as the AB2C has low crosstalk.

Shields: Internal jumpers allow Pin1 of the input and output XLRs to be grounded (default) or floating. The XLR shells are bonded to the case and ground.

Balanced Phase: Pin2 or Pin3 (default) of all the XLRs can be set internally for +ve phase referred to the unbalanced inputs and outputs.

All inputs, outputs & adjustments are clearly labelled. The AB2C is 1U high, three will fit side by side in a standard rack space.



Internal Settings:

1. Remove from mains power and all audio connections.
2. Remove the front panel by gently pulling out the four black rivets at the corners.
3. Remove the single Posidriv screw holding the group of four phono sockets.
4. Turn the AB2C upside down and remove the two black rivets near the front.
5. Remove the four black Posidriv screws at the sides that retain the top cover.
6. Slide off the top cover, all circuitry is now exposed.
7. The wide ribbon cable near the rear can be moved to

8. the Pin2 Hot or Pin3 Hot position. Make sure it is located properly.
8. The XLR Screens can be independently grounded by two links near the rear. Usually one or both are connected in accordance with your standard in-house wiring.
9. Reassembly is a reversal of steps 2. to 6. above. Don't tighten the four cover screws until they are all in.

Servicing and mains voltage selection must only be carried out by a qualified technician.

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Specifications

Maximum Input / Output Level:	+26dBu (balanced), +20dBu (unbalanced)
Frequency response:	3Hz to 50KHz, -3dB (bal to unbal and unbal to bal)
Gain, bal to unbal:	-26dB to +10dB, factory setting -14dB (+4dBu in / -10dBu out)
Gain, unbal to bal:	-5dB to +20dB, factory setting +14dB (-10dBu in / +4dBu out)
Crosstalk, unbal to bal:	<-70dB @ 1KHz
Crosstalk, bal to unbal:	<-80dB @ 1KHz
Wideband S+N:N:	<-96dB
Power consumption:	<5VA
Dimensions (W x H X D):	146mm x 44mm x 195mm (overall)
Weight, unit only:	1.3Kg

decibel table

-10dBu =	0.245V~
0dBu =	0.775V~
+4dBu =	1.23V~
+8dBu =	1.95V~
+10dBu =	2.45V~
+20dBu =	7.75V~
+26dBu =	15.46V~
~Voltages are rms	
u = unloaded (Hi Z)	