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-* PREAMPLIFIER/BOOSTER PSP2 -*
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-* USER'S MANUAL -*
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- UNPACKING AND INSPECTION -
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All PSP2 preamplifiers are double-checked for good condition before being shipped from the factory. Despite the protective carton and rugged design it is possible for shipping abuse to damage the preamp.

Check for obvious carton damage while unpacking the unit.

Please save the carton for return shipment, if required. E2A does not warranty against damage caused by sending preamps back in wrong carton or improperly packed.

If shipping damage is evident, notify the transportation company immediately. Only the consignee can file a claim with the carrier for shipping damage. E2A will cooperate fully in such an event. Be sure to save the carton for the shipper to inspect.

- CONNECTING THE EQUIPMENT -
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- MICROPHONE INPUTS -

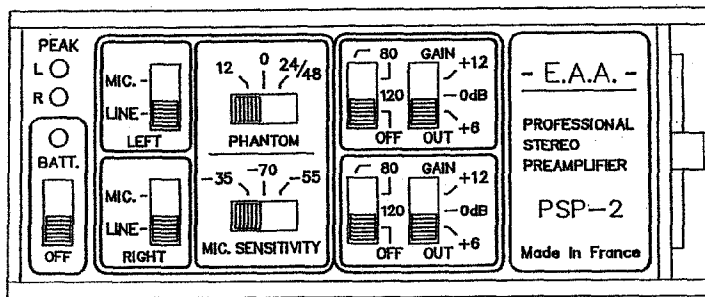
- Transformer balanced inputs
- Required connectors: CANNON AXR-3.12
or NEUTRIK NC3MX
or SWITCHCRAFT A3M
- Wiring: - 1 - Ground
- 2 - Hot +
- 3 - Cold -

- PREAMPLIFIER OUTPUT -

- Transformerless, balanced outputs.
- Required connectors: CANNON AXR-3.11
or NEUTRIK NC3FX
or SWITCHCRAFT A3F

- MINI-JACK INPUT/OUTPUT -

- Unbalanced inputs/outputs
- Wiring - Round tip: left channel
- Narrow metal ring: right channel
- Metal body: ground



The PSP-2 preamplifier provides input and gain matching of the very highest quality to miniature DAT players and improves their characteristics to professional level.

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- GENERAL CONTROLS -

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- ON/OFF switch -

The On/Off switch must be set to the "OFF" position when the equipment is not in use.

- BATT. indicator -

When the "BATT." indicator blinks, it warns the operator that the batteries must be replaced by a new fresh set. However an immediate replacement is not necessary and the dc/dc converter will continue to provide the nominal voltages to the internal power rails until the total batteries voltage falls down to about 4.5V

- R and L PEAK indicators -

A led "PEAK" indicator available on each channel warns the operator when the signal level is 3dB above the clipping level. When one "PEAK" indicator tends to light it is advised to reduce the sensitivity by switching the "GAIN OUT" switch of the related channel to a lower gain position or by activating the "MIC.SENSITIVITY" switch to a lower sensitivity position (both channels involved) until complete extinction is obtained.

- DC IN 9V Max input socket -

An external DC power supply in the range 5 to 9V (9V maximum) capable to deliver 500mA while maintaining an output voltage in the required range can be connected to the preamp via the external power supply input connector socket. Before connecting the external power supply to the preamp., check for the polarity as specified above the connector socket:

- center pin : positive +
- barrel : negative -

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- RECORD MODE -
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- Selection of input gain and phantom supply voltage -

Select the "MIC.SENSITIVITY" switch position according to the microphones in use :

- 70 position = Low sensitivity microphones (dynamic mic.)
-55 position = Static or electret microphones
-35 position = High sensitivity microphones

Select the required power supply voltage with the "PHANTOM" switch. (0 position = no phantom supply)

- CAUTION -

- I The "24/48" position is set to 48V in the factory. I
I For 24V phantom supply, please refer to drawing ref.41-1153 I
I and modify the positions of the two red indexes accordingly.I

Adjustment of the input gain -

- 1 - Select the "MIC.SENSITIVITY" sw. position (both channels)
2 - Select the "GAIN OUT" sw. positions (one sw. per channel)
3 - Fine recording level adjustment is accomplished with the "RECORD LEVEL" potentiometer located on the DAT player.

- Low-cut filters -

Two 12dB/oct. frequency selectable, low-cut filters, may be inserted in each channel to avoid unwanted low frequency signals. Switch lever on:- upper position = frequency 80Hz

- center position = frequency 120Hz
- lower position = off

- Connection to the DAT player -

For recording mode, connect the PSP2 preamplifier to the DAT recorder as follow:

- Place the right angle, mini-jack terminated, connecting cord supplied with the equipment between the "STEREO LINE OUT" output of the preamp and the "LINE IN" input of the DAT player.
or - Place two XLR terminated connecting cords between the "LEFT OUT"/"RIGHT OUT", XLR male output connector sockets of the preamp to the XLR female, "LINE INPUT", connector sockets of the DAT player.

Switch the "LINE IN / MIC.IN" selector of the DAT player to the "LINE IN" position.

- Selection of the preamplifier inputs -

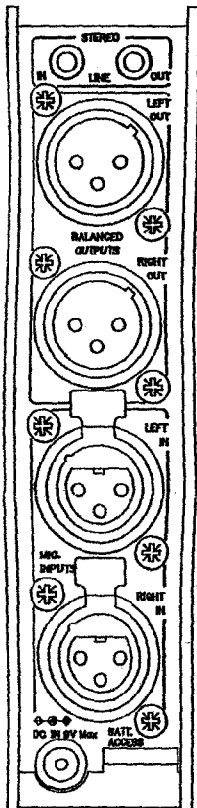
Select the "MIC/LINE" switch position as follow: (one switch per channel)

- upper position = balanced, Microphone level input connection to XLR female socket "LEFT IN" or "RIGHT IN"
- lower position = unbalanced, LINE level input connection to mini-jack socket "STEREO LINE IN"

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- PLAY MODE -

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- Connection to the DAT player -

Connect the "LINE OUT" DAT player outputs to the "STEREO LINE IN" of the preamp with a mini-jack terminated connecting cord.

- Output level adjustment -

Output signals are available simultaneously

- on the preamp "STEREO LINE OUT" mini-jack socket (unbalanced)
- on the "LEFT OUT" and "RIGHT OUT" XLR, male, connector sockets (balanced)

Output level may be selected with the "GAIN OUT" switches related to each channel (positions: +12dB, 0, +6dB)

Fine output level adjustment is accomplished with the "VOLUME" potentiometer located on the DAT player.

- Low-cut filters -

As in the record mode, low-cut, frequency selectable filters, may be inserted in each channel to avoid unwanted low-frequency signals.

- CAUTION -

I It is possible to use simultaneously I
I with the main XLR symmetrical outputs I
I the mini-jack "STEREO LINE OUTPUT" to I
I drive a monitoring headset of impedance I
I equal or greater than 50 ohms. I

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- BATTERIES -
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For best results and longer operational capability, use AA size (LR6) fresh, high grade, alkaline batteries only. Never mix old or already used cells with fresh cells. Never let used cells inside the equipment. All those precautions becomes a must in hot or damp environmental conditions.

- Nickel-cadmium accumulators -

Alternatively, ni-cad cells which have a shorter life cycle (40% vs. alkaline cells) may be employed for maximum economy.

It is necessary for recharging to remove the accumulators from the equipment.

- Carbon-zinc batteries -

The use of ordinary "dry" carbon-zinc batteries, which may leak and cause extensive damage is definitely not recommended. In any case they give a very small fraction (about one fifth) of the life of alkaline cells.

If fitted in an emergency, it is most important they will be removed immediately after use.

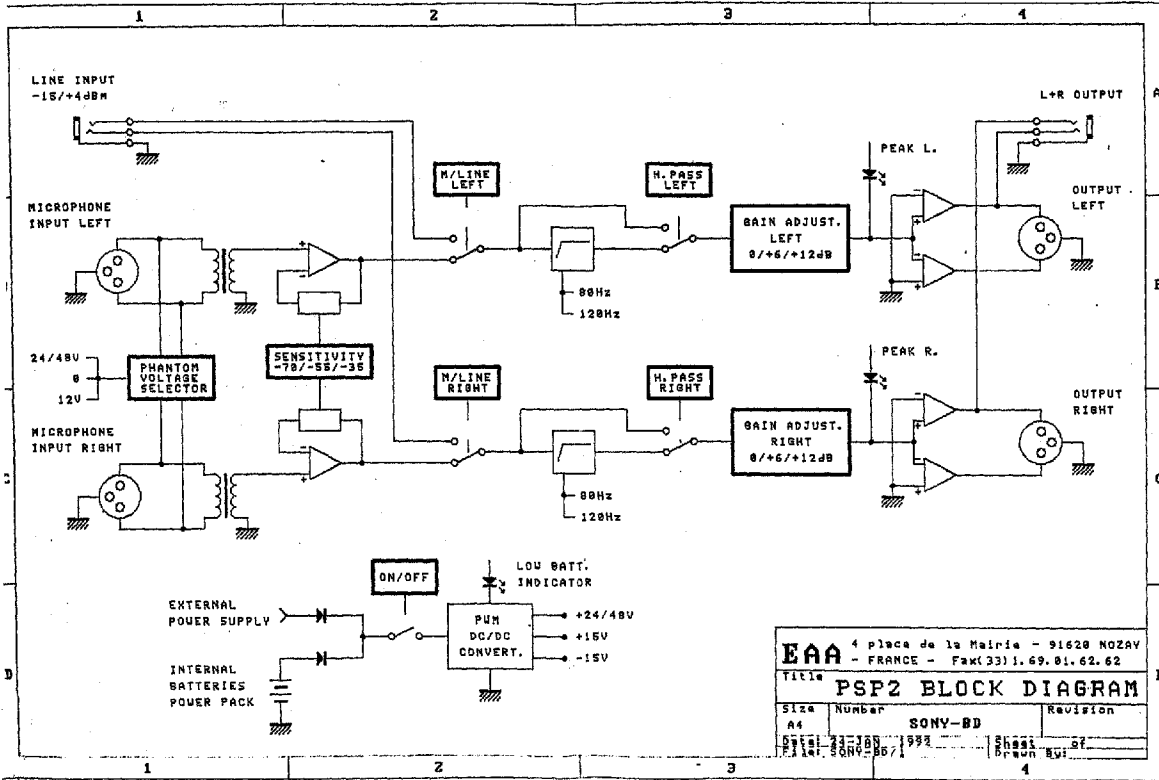
- External power supplies -

Be carefull to use regulated and filtered power supplies only. Standard power supplies for pocket calculators may disturb the operation and cause permanent damage to the equipment; for that reason they must be definitely discarded.

An external power supply in the range 5 to 9V, (9V maximum) capable to deliver 500mA while maintaining an output voltage in the required range can be connected to the mixer via the external power supply input connector.

Before connecting the external power supply to the equipment, check the polarity as specified thereafter :

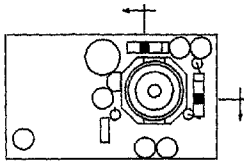
- center pin : positive +
- barrel : negative -



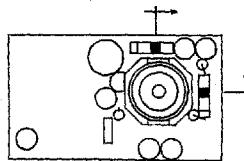
EAA 4 place de la Mairie - 91628 NOZAY
 - FRANCE - Fax(33) 1.69.81.62.62

Title: **PSP2 BLOCK DIAGRAM**

Size	Number	Revision
A4	SONY-BD	
Date: 22/08/1992	Sheet: 07	
File: SONY-BD/1	Drawn by:	



48V SELECTION



24V SELECTION

PRINTED CIRCUIT BOARD M039B

TO MODIFY PHANTOM SUPPLY VOLTAGE ,
 MOVE THE SWITCHES INDEXES
 IN THE ARROWS DIRECTION

Title				PHANTOM VOLTAGE SELECTION	
Size	Number	41.1153		Revision	
Model	Part No.	P039B-51		Drawn	Lot 1
File				Drawn by	Cl.