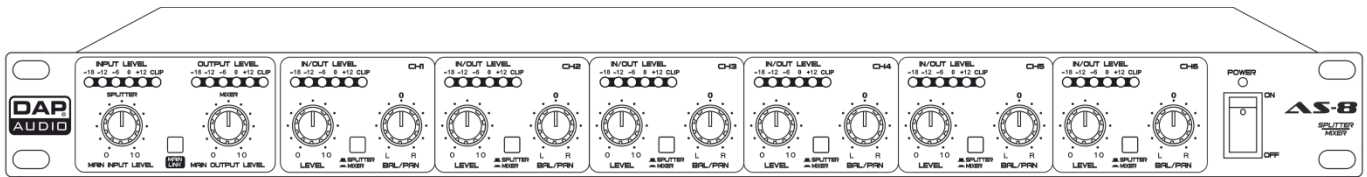




# MANUAL



ENGLISH

# AS-8

# V1

Ordercode: D1904

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## Warning



**For your own safety, please read this user manual carefully  
before your initial start-up!**



### Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a device must be returned to the factory, it is important that the device is returned in the original factory box and packing.

### Your shipment includes:

- DAP Audio AS-8
- IEC power cable (1,5 m)
- User manual



**CAUTION!**  
**Keep this device away from rain and moisture!**  
**Unplug mains lead before opening the housing!**



### Safety Instructions

Every person involved with the installation, operation and maintenance of this system has to:

- be qualified
- follow the instructions of this manual



**CAUTION! Be careful with your operations.**  
**With a dangerous voltage you can suffer  
a dangerous electric shock when touching the wires!**



Before you initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the system.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the system are not subject to warranty.

This system contains no user-serviceable parts. Refer servicing to qualified technicians only.

**IMPORTANT:**

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the system.

- Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.
- Do not insert objects into air vents.
- Do not connect this system to a dimmerpack.
- Do not switch the system on and off in short intervals, as this would reduce the system's life.
- Do not open the device and do not modify the device.
- Do not drive the inputs with a signal level higher than required to drive the equipment to full output.
- Only use system indoors, avoid contact with water or other liquids.
- Avoid flames and do not put close to flammable liquids or gases.
- Always disconnect power from the mains, when system is not used. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- Always operate the unit with the AC ground wire connected to the electrical system ground.
- Make sure you do not use the wrong kind of cables or defective cables.
- Make sure that the signals into the mixer are balanced, otherwise hum could be created.
- Make sure that you use DI boxes to balance unbalanced signals; All incoming signals should be clear.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power cord is never crimped or damaged. Check the system and the power cord from time to time.
- Please turn off the power switch, when changing the power cord or signal cable.
- Extreme frequency boosts in connection with a high input signal level may lead to overdriving your equipment. Should this occur, it is necessary to reduce the input signal level by using the input control.
- To emphasize a frequency range, you do not necessarily have to move its respective control upwards; try lowering surrounding frequency ranges instead. This way, you avoid causing the next piece of equipment in your sound path to overdrive. You also preserve valuable dynamic reserve ("headroom").
- Avoid ground loops! Always be sure to connect the power amps and the mixing console to the same electrical circuit to ensure the same phase!
- If system is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the system has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your system. Leave the system switched off until it has reached room temperature.
- If your Dap Audio device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Dap Audio dealer for service.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- For replacement use fuses of same type and rating only.
- WARRANTY: Till one year after date of purchase.

## Operating Determinations

This system is not designed for permanent operation. Consistent operation breaks will ensure that the system will serve you for a long time without defects.

If this system is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.

Any other operation may lead to dangers like short-circuit, burns, electric shock, etc.


*You endanger your own safety and the safety of others!*

*Improper installation can cause serious damage to people and property !*

## Connection with the mains

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

*Make sure that the device is always connected properly to the earth!*

*Improper installation can cause serious damage to people and property!*



### **⚠ Return Procedure ⚠**

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail [offersales@highlite.nl](mailto:offersales@highlite.nl) and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

**Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:**

- 01) Your name
- 02) Your address
- 03) Your phone number
- 04) A brief description of the symptoms

### **Claims**

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

## Description of the device

### Features

The AS-8 can be used for several purposes. Due to its intelligent design, the users can easily switch between a controllable audio mixer (with several inputs) and a signal splitter (with several controllable outputs). This makes the AS-8 a multifunctional solution for your own monitor mix, multi zone systems, conference applications and more.

- Power supply: 230V AC, 50Hz
- Power consumption: 15W
- Indicators: 6-digit LEDs -18/-12/-6/0/+12/clip
- Input impedance: 50 kOhm balanced, 25 kOhm unbalanced
- Input connectors: XLR and 1/4" TRS
- Max. input level: +21 dBu
- Output connectors: XLR and 1/4" TRS
- Output impedance: 60 Ohm balanced, 30 Ohm unbalanced
- Frequency response: 5 Hz – 40 kHz
- Controls: input levels, output levels, main link button, balance/pan control, ground lift
- SNR: >95 dBu
- THD: < 0,002% typ. @ +4 dBu, 1KHz
- Fuse: T3,15mAL/250V
- Dimensions: 483 x 215 x 44 mm (LxWxH)  
19" x 1HE (LxH)
- Weight: 3 kg

### Frontside

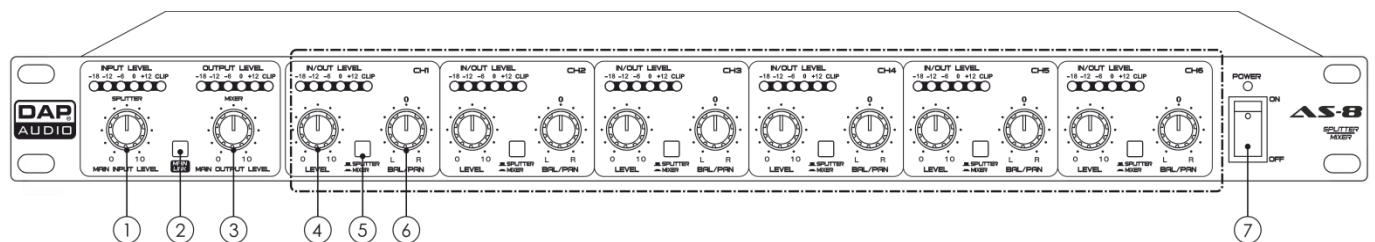


Fig. 01

- ① **Main Input Level control**  
Turn the control to set the main input gain, before the signal reaches the input bus. While in Splitter mode, turn the control to set the common output level for all mono outputs. The LED indicators above the control, display the input level of the main input, between -18 and +12 dB.
- ② **Main Link button**  
Depress the button to route the main input signal to the main out. It is possible to route up to 8 input channels to the main mix.
- ③ **Main Output Level control**  
Turn the control to set the output level applied to the main outputs. The levels at the 6 mono outputs remain unaffected. The LED indicators above the control, display the output level of the main input, between -18 and +12 dB.
- ④ **IN/OUT Level control (CH1-6)**  
Turn the control to set the signal level of the individual channels. In Splitter mode, turn the control to set the output level of the mono channels. In Mixer mode, turn the control to set the amount of the mono channel's input signal feeding into the main output section. The LED indicators above the control display the output level of the given channel, between -18 and +12 dB.
- ⑤ **Splitter/Mixer button (CH1-6)**  
Press/depress the button to toggle between Splitter and Mixer modes.

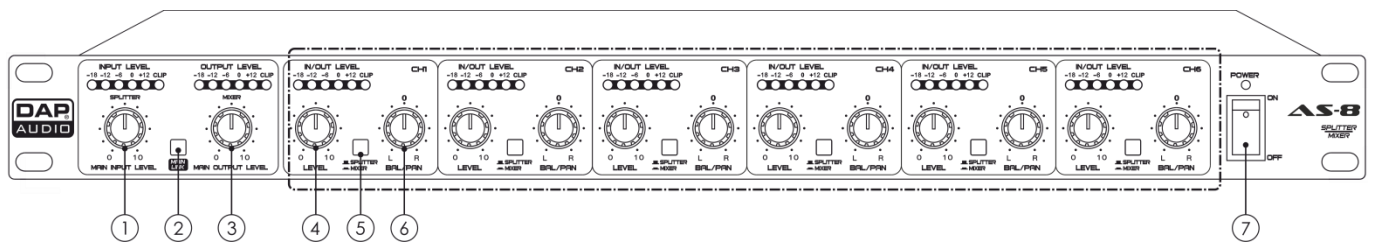


Fig. 02

- 6 **Balance/Pan control (CH1-6)**  
Turn the control to set the balance between the left and right main signals. In Splitter mode, the main input signal will be sent to the mono output while the Balance control determines the balance between the left and right main signal portions. In Mixer mode, the mono inputs will be mixed and routed via the Level control to the main outputs, while the Pan control determines the allocation of the mono inputs to the left/right main outputs.
- 7 **Power Switch ON/OFF**

## Backside

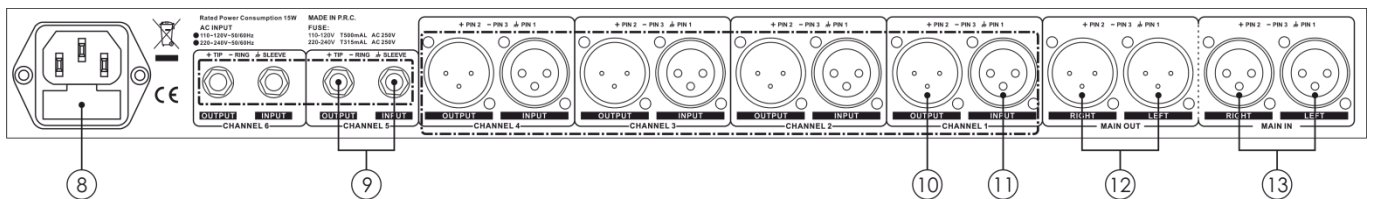


Fig. 03

- 8 **IEC 230V AC power connector IN + Fuse T3,15mAL/250V**
- 9 **Jack 6,3 mm connector – Balanced MONO IN/OUT (CH5-6)**
- 10 **3-pin XLR connector – MONO OUT (CH1-4)**
- 11 **3-pin XLR connector – MONO IN (CH1-4)**
- 12 **3-pin XLR connector – Main OUT**  
The main outputs may be fed by the left/right main inputs or by any of the 6 mono inputs (combination of both is also possible).
- 13 **3-pin XLR connector – Main IN**  
While operating in Splitter mode, the main inputs may feed the mono outputs of all channels.

## Installation

Remove all packing materials from the AS-8. Check that all foam and plastic padding is removed. Connect all cables.

**Do not supply power before the whole system is set up and connected properly.**

**Always disconnect from electric mains power supply before cleaning or servicing.**

**Damages caused by non-observance are not subject to warranty.**



## Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 115V specification product on 230V power, or vice versa.

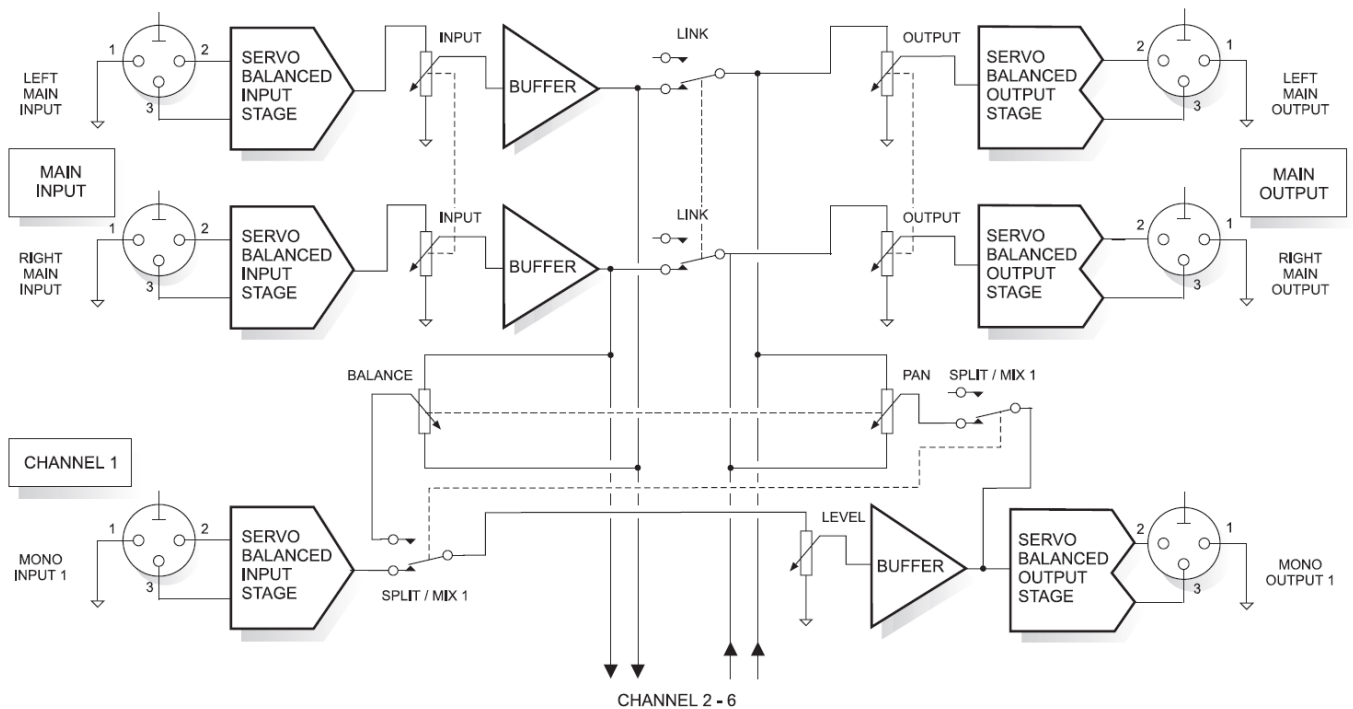


Fig. 04

### MAIN Section

- 01) By means of the **Main Input Level control (01)**, both main inputs interface with the input bus and the main outputs.
- 02) Set the output level of the signals, summed by the second bus, by turning the **Main Output Level control (03)**. The signals will then be sent to the main outputs.

### Splitter Mode

- 01) The main input signal is processed by the **Balance control (06)** to the output buffer mono channels' amplifiers.
- 02) Turn the **Level control (04)** to set the output level of the respective channel.

### Mixer Mode

- 01) The input signals are compiled through the **Level control (04)** and the **Pan control (06)**. Subsequently, they are sent to the output bus.
- 02) Turn the **Level control (04)** to set the amount of each channel at the output bus.
- 03) Turn the **Pan control (06)** to allocate the input signal to the left/right main outputs.
- 04) The input signal is routed to the appropriate mono outputs. The circuit functions as a matching amplifier. Turn the **Level control (04)** to set level compensation.

## Mixer

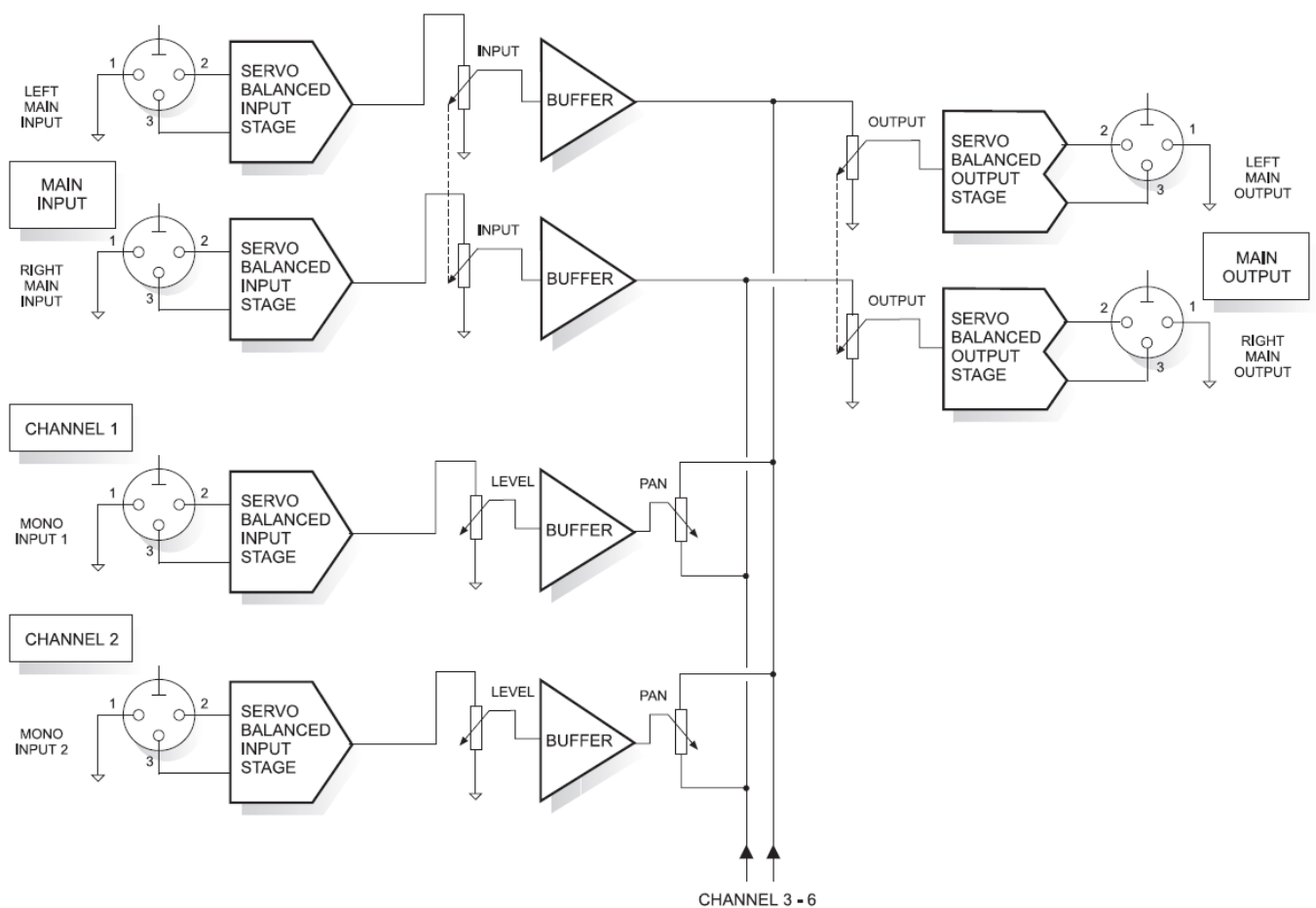


Fig. 05

- 01) If the mono channels are used in Mixer mode, a maximum of 8 mono input signals can be routed to the main outputs.
- 02) The individual signal sources are connected to the mono inputs.
- 03) Each channel is equipped with a Level control, which can be used for setting the amount of its signal, relative to others in main section. By turning the Pan control, each mono input signal can be routed to the left/right main output.
- 04) Turn the Main Output Level control to set the level of the main output signal.
- 05) Due to the fact that both main inputs can be routed alternatively, it is possible to add 2 extra input signals. To do so, depress the **Main Link button (02)**.
- 06) Due to the fact that these inputs are not equipped with a Pan control, the left main input will always be routed to the left main output. Similarly, the right main input can only be sent to the right main output. The 8 available mono channels can be routed to 2 main outputs.

## Splitter

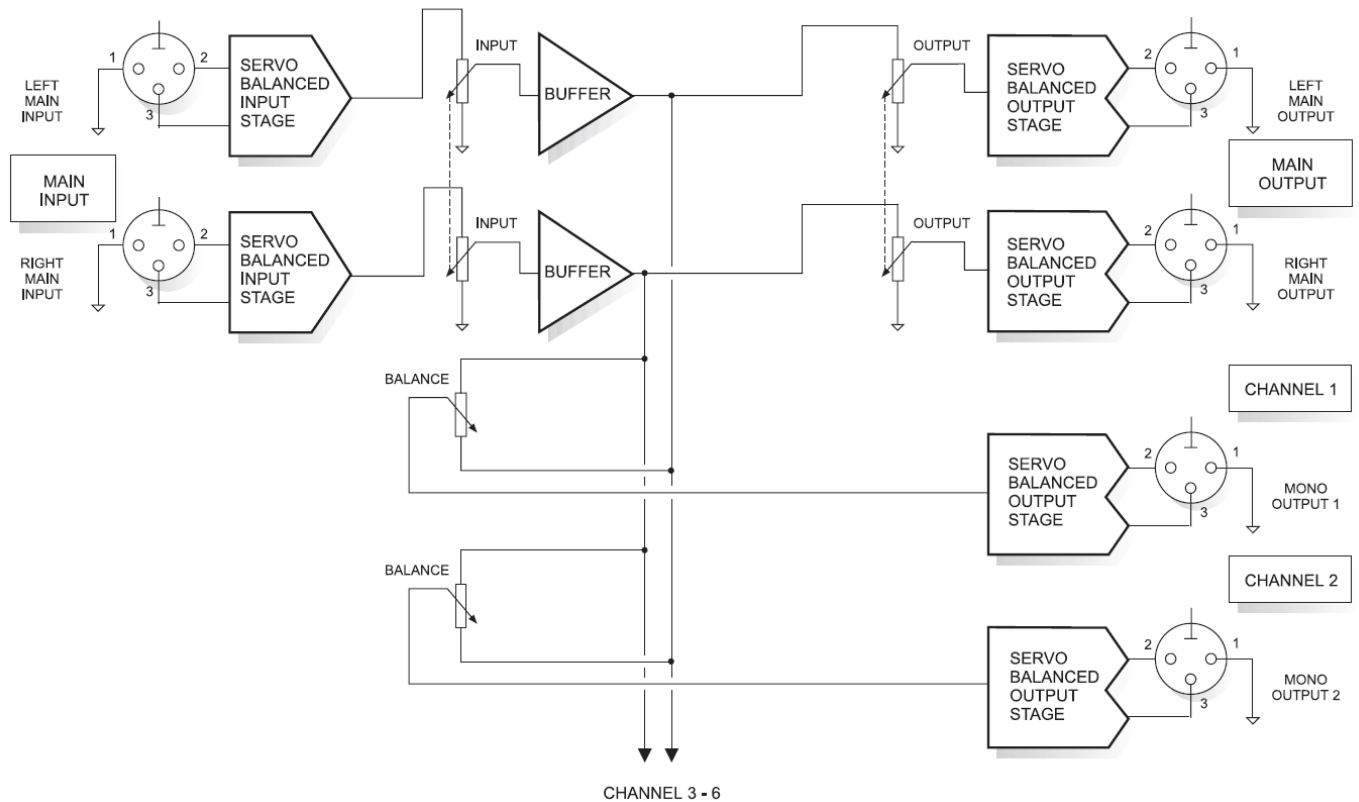


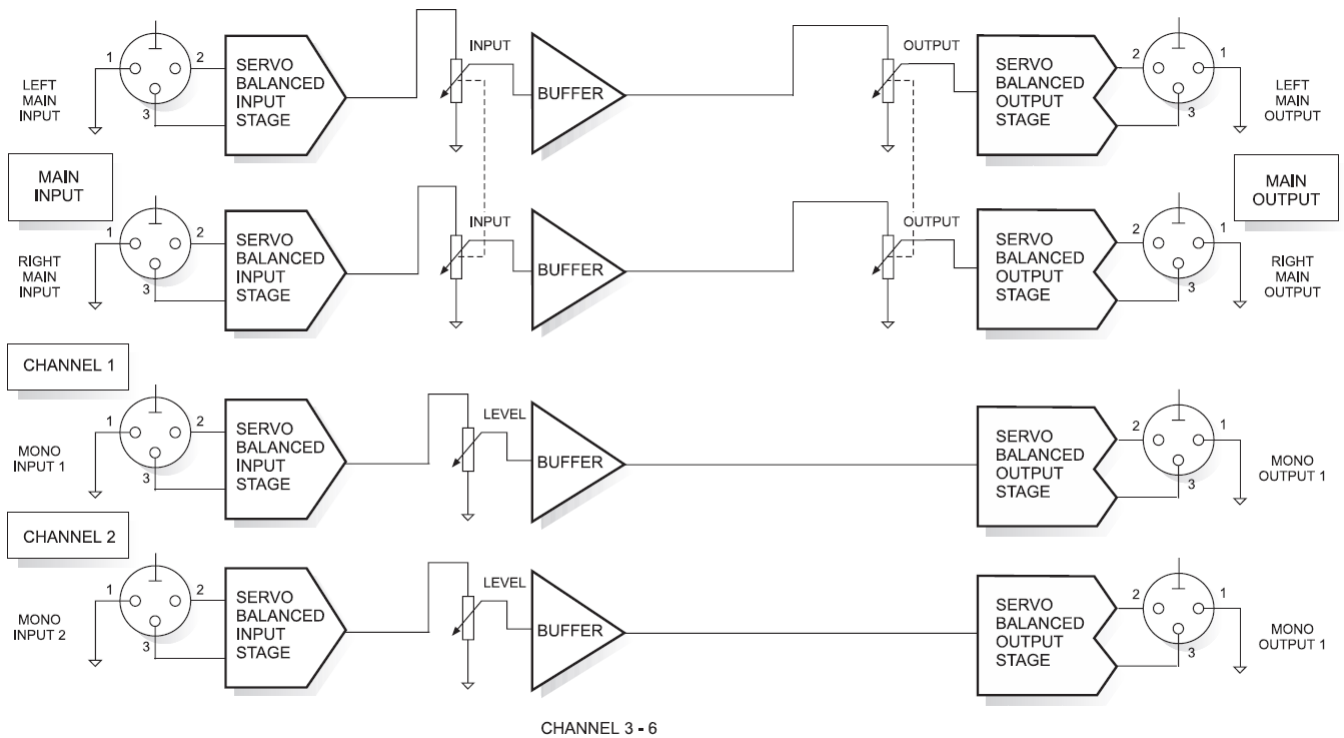
Fig. 06

- 01) The output signal from the mixer is applied to the main inputs of the AS-8.
- 02) If the SPLITTER/MIXER buttons are depressed (set to Splitter), then the mono outputs of the respective channels provide the left or right main signal.
- 03) Turn the Balance control to set balance between the left and right signal.
- 04) The main input signal is also sent to the left or right output. These outputs are not equipped with a balance routing function.
- 05) The left main input is routed to the left main output and the right main input – to the right main output.

### 4-channel Stereo Splitter

- 01) The stereo signal source should be connected to the 2 main inputs.
- 02) If all mono channels are set to Splitter mode, the Balance controls of CH1, 3 and 5 are turned to the left and the Balance controls of CH2, 4 and 6 are turned to the right, then the corresponding stereo output pairs will be routed via channels 1+2, 3+4, 5+6.

## Matching Amplifier



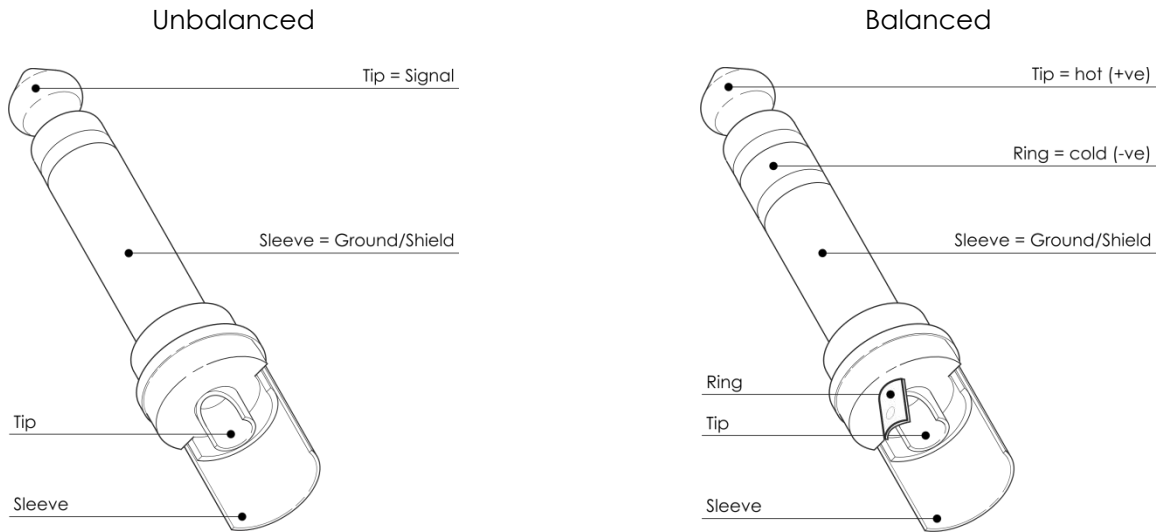
**Fig. 07**

It is possible to use the AS-8 as a matching amplifier, in order to convert the level of a signal source into a different level.

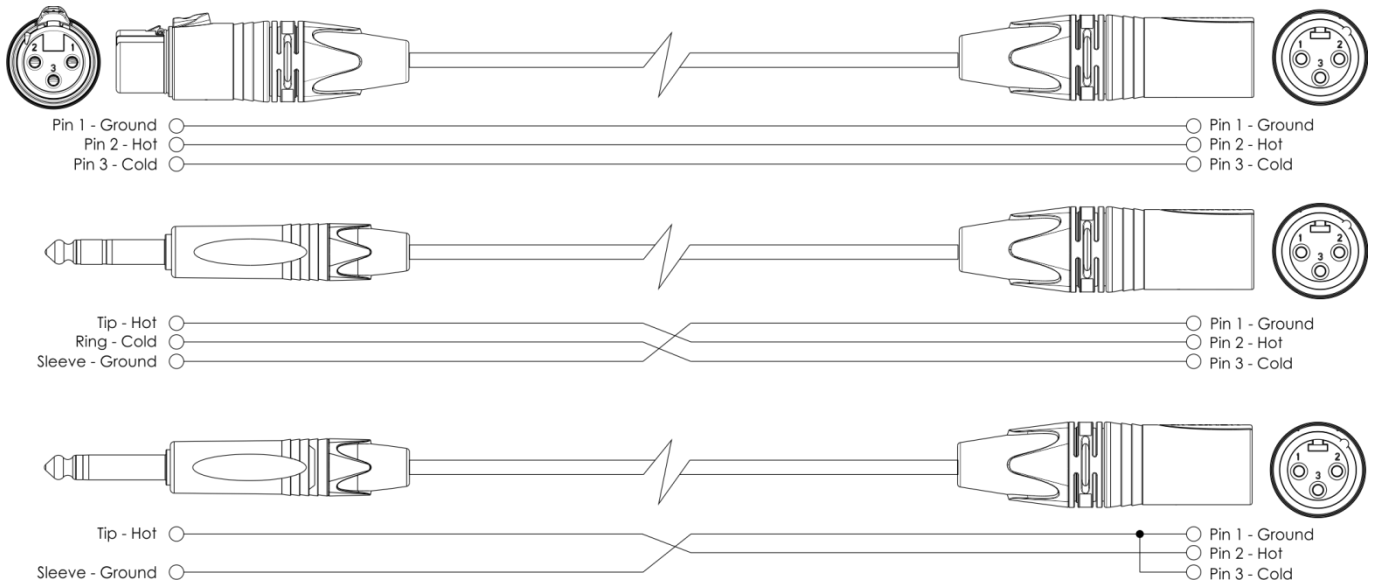
- 01) The AS-8 should be operated in Mixer mode.
- 02) The output of the signal source is connected to the mono input.
- 03) The mono output produces the output signal whose level can be adjusted.
- 04) Each of the 6 mono channels is equipped with a Level control, from 0 (full attenuation) to a maximum gain.

## Connection Cables

Take care of your cables, always holding them by the connectors and avoiding knots and twists when coiling them: This gives the advantage of increasing their life and reliability. Periodically check your cables. A great number of problems (faulty contacts, ground hum, discharges, etc.) are caused entirely by using unsuitable or faulty cables.



For these applications the unit provides 1/4" TRS and XLR connectors to easily interface with most professional audio devices. Follow the configuration examples below for your particular connection.



## Maintenance

The DAP Audio AS-8 requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents. Keep connections clean. Disconnect electric power, and then wipe the audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

## Replacing the Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below.

- 01) Unplug the unit from electric power source.
- 02) Insert a screwdriver into the slot in the fuse cover. Gently pry up the fuse cover. The fuse will come out.
- 03) Remove the used fuse. If brown or unclear, it is burned out.
- 04) Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

## Troubleshooting

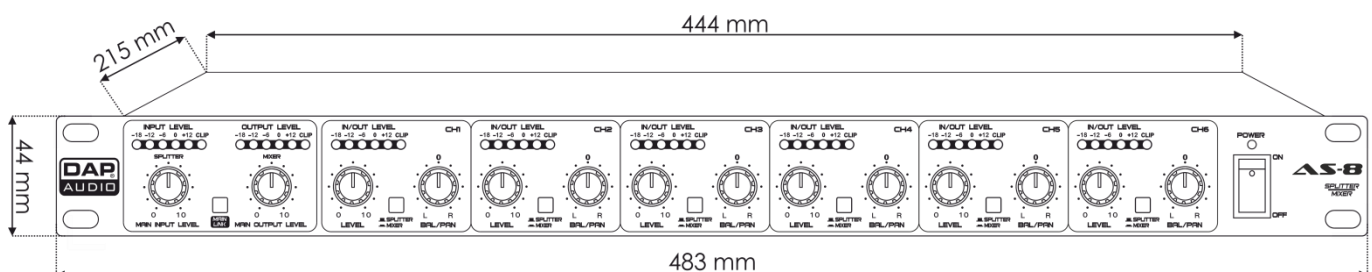
DAP Audio AS-8

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

- 01) If the device does not operate properly, unplug the device.
- 02) Check power from the wall, all cables, connections, etc.
- 03) The fuse. Replace the fuse. See page 13 for replacing the fuse.
- 04) If all of the above appears to be O.K., plug the unit in again.
- 05) If nothing happens after 30 seconds, unplug the device.
- 06) Return the device to your DAP Audio dealer.

## Product Specifications

- Power supply: 230V AC, 50Hz
- Power consumption: 15W
- Indicators: 6-digit LEDs -18/-12/-6/0/+12/clip
- Input impedance: 50 kOhm balanced, 25 kOhm unbalanced
- Input connectors: XLR and 1/4" TRS
- Max. input level: +21 dBu
- Output connectors: XLR and 1/4" TRS
- Output impedance: 60 Ohm balanced, 30 Ohm unbalanced
- Frequency response: 5 Hz – 40 kHz
- Controls: input levels, output levels, main link button, balance/pan control, ground lift
- SNR: >95 dBu
- THD: < 0,002% typ. @ +4 dBu, 1KHz
- Fuse: T3,15mAL/250V
- Dimensions: 483 x 215 x 44 mm (LxWxH)  
19" x 1HE (LxH)
- Weight: 3 kg



Design and product specifications are subject to change without prior notice.



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