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Dear music lover,

all of us at ASR would like to offer thanks and congratulations to you for purchasing the ASR Mini-Basis Phono-Pre-Amplifier. We sincerely believe that your ASR Mini-Basis will bring you many years of musical pleasure and enjoyment.

All ASR products are handmade with greatest care to details and with high-grade selected parts.

Enjoy your high quality records even more with this musical Phono-Pre-Amplifier!

While every new owner is anxious to begin listening, we encourage you to take a few minutes to read this manual and familiarize yourself with the full capabilities of the ASR Mini-Basis.

1.0 Setting up the ASR Mini-Basis

Check to make sure, your ASR Mini-Basis has been manufactured for operation at your AC line voltage. Attempting to use your ASR Mini-Basis at any voltage other than the specified on the backside may damage the unit.

**Damage caused by improper operation is not covered by ASR warranty.
If the voltage specified is different from your AC voltage, contact your ASR dealer.**

Place the unit close to your turntable and use a cable as short as possible to connect your turntable to the main unit. Do not place the ASR Mini-Basis main unit close to any power supply.

1.1 Important safety precautions

To get the best performance from your ASR Mini-Basis, and for your own safety, please read and follow these important safety instructions.

1. **Before operating** the ASR Mini-Basis Phono Pre-Amplifier, please **read** ALL operating and safety instructions.
2. Never place the ASR Mini-Basis near heat sources such as radiators, fireplaces, stove, or other appliances that produce heat. Avoid placing the ASR Mini-Basis where it will be subject to direct sunlight or low temperatures.
3. This product is equipped with a three wire AC power cord which includes an **earth ground** connection. To prevent shock hazard, all three connectors must always be used.
If your AC outlets will not accept this type of plug, an adaptor may be purchased. If an adaptor is necessary, be sure it is an approved type and that it is used properly, supplying an earth ground. If you are not sure of the integrity of your home's electrical system, contact an licensed electrician for assistance.
4. Before **cleaning** the ASR Mini-Basis always disconnect the AC power supply cord.
5. If you smell smoke, or an abnormal smell, immediately **unplug** the ASR Mini-Basis from the AC power and contact your ASR dealer.
6. In case the unit becomes wet unplug it immediately, and dry it completely before using it again.
7. Replace fuse in the small drawer at the power plug only with the exact type originally included.
115 Volt: 1 Amps slow blow 230 Volt: 0,5 Amps slow blow
8. **THERE ARE NO SERVICEABLE PARTS INSIDE THE ASR Mini-Basis !**
 - Do not attempt to repair or modify your ASR Mini-Basis.
 - All service should be performed by qualified service personnel.
 - Do not open the unit while it is attached to the AC outlet.

2.0 Connecting the ASR Mini-Basis

2.1 Connecting to a pre- or an integrated amplifier

ATTENTION: Please disconnect the power cord from the AC outlet before you connect any cables at the ASR Mini Basis.

The input sockets are located on the back panel of the main unit left and right of the ground clamp. The input sockets are located left and right of the output sockets. The sockets for the **right channel** are marked with a **red** ring, for the **left** channel with a **black** ring.

Please connect the output sockets of the ASR Mini Basis with high quality unbalanced (RCA) cables to a high level input of your pre- or main amplifier.

2.2 Connecting the tone arm cable

Either Moving Magnet (MM) or Moving Coil (MC) cartridges can be connected to the ASR Mini-Basis via unbalanced (RCA) cables.

Please connect the ground cable of your turntable to the ground clamp on the back panel of the ASR Mini-Basis. If any hum occurs, try to route the ground cable in different manners – your goal should be to eliminate hum completely.

3.0 Adjusting the ASR Mini-Basis

Before you do any adjustments inside the ASR Mini-Basis please disconnect the power cord from the AC outlet.

- a) to adjust the ASR Mini-Basis, please remove the cover of the main unit.
Please use a 3 mm Allen wrench to loose the four screws
- b) inside the main unit you find four DIP switches to adjust the ASR Mini-Basis
- c) in input resistance can be adjusted at the 10 pole DIP switches
- d) the gain can be adjusted at the 6 pole DIP switches
- d) the DIP switches have two different settings: „ON“ or „OFF“; be sure, that the switches are correctly set (when set correctly, you will hear a slight „klick“)
- c) please set the DIP switches exactly the same for the right and the left channel

3.1 Adjusting the input resistance

The ASR Mini-Basis can be perfectly adjusted to bring out the best sound out of every cartridge you may ever use. Adjustment of the input resistance can be made from 47 kOhms for MM cartridges to 12 Ohms for low output MC cartridges.

We know from experience that if you are using an adjustment with a lower input resistance the ambiance is improved with limited dynamics, with a higher input resistance the overall performance is brighter and more dynamic, but definition and precision are limited.

You can easily find out the perfect setting for you: make an adjustment and listen to the system.

The adjustment you like best is the one you should choose!

(DIP switch = „No.“) (47 k when all Dips are OFF)

	15K	10K	2K2	1K	470	360	220	100	94	47	22	15	12	Value
1	--	--	--	--	--	--	--	--	--	--	on	on	on	22
2	--	--	--	--	--	--	--	--	--	on	--	on	on	47
3	--	--	--	--	--	--	--	on	on	--	--	--	on	100
4	--	--	--	--	--	--	on	--	on	--	--	--	on	220
5	--	--	--	--	on	on	--	--	--	--	--	--	on	475
6	--	--	--	on	--	on	--	--	--	--	--	--	on	1K
7	--	--	on	--	--	--	--	--	--	--	--	--	on	2K2
8	--	on	--	--	--	--	--	--	--	--	--	--	on	10K
9	on	--	--	--	--	--	--	--	--	--	--	--	on	22K

By using **combinations** of Dip switches you can get additionally values for the resistance.

Formula for the Calculation : $1/R \text{ total} = 1/R1 + 1/R2 + 1/R3 \dots$

Example: 100 and 221 Ohm combined (47 k is fix): $1/R_t = 1/100 + 1/221 + 1/47000 = 1/0,015$ $R_t = 69$

3.2 Adjusting the input capacity

The input capacity can be adjusted on DIP switch No. 10: position „Off“ = 100 pF, „On“ = 320pF.

You can easily determine the value for your cartridge by using the cartridge manufacturer’s recommended value and subtract the capacity of the phono cable you are going to use – the result is the value you have to adjust in your ASR Mini Basis.

3.3 Adjusting the gain

The gain can easily be adjusted on the 6 fold DIP switches „Gain Adjust“. The switches can be combined to get higher gain. The minimal gain of +30 dB is obtained with all Dip switches in OFF, the Maximum gain of +72 dB is obtained by putting all DIP switches to „ON“.

To know the adjusted gain please add the following values to 30 dB :

switch No. „ON“	none	6	5	4	3	2	1	All 1-6
Gain	0dB	+6dB	+12dB	+18dB	+24dB	+30dB	+36dB	+42dB

Please set the DIP switches exactly the same for the right and the left channel (only exception from this rule: your cartridge has different output from the right and left channel).

!! The gain should be set as low as necessary to get lowest possible noise !!

3.4 Settings for common cartridges

Input Resistance (switch no.)										Gain (switch no.)						cartridge type
1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	on	MM,MC High Output
--	--	--	--	on	--	--	--	--	--	--	--	--	on	--	--	MC Low Output
--	on	--	--	--	--	--	--	--	--	--	on	--	--	--	--	MC Very Low Out

4.0 Trouble-shooting

4.1 The unit is not working

Please check if the **two Leds** inside the main unit are **shining**.

If not please check if the power cable is connected correctly to the Mini Basis and the power outlet. Also you may check the **fuse** in the little **drawer** at the power cable connector at the Mini Basis.

When the Leds are shining please check the cables and your cartridge.

4.2 Hum

To avoid hum the ASR Mini-Basis should not be placed near power supplies, televisions, video equipment, AM/FM-receivers, cordless phones, computers etc. Also do not route the input or output cables parallel to the power cord. Hum can occur because of a **ground loops** caused by multiple grounding of the cartridge/tone arm/ amplifiers. Please try to reverse the plug of the power cord. That may interrupt the ground loop. Also try different ways of grounding.

4.3 Noise

If noise occurs while playing an LP, you should lower the gain. The noise at the cartridge's internal resistance of a very low output MC cartridge might be already higher, than the noise of the input stage of the ASR Mini Basis!

4.4 Different channel volumes during phono playback

Please check if all DIP switches are set in the same way for both channels and are positioned into their places properly.

4.5 Just in case: repair

If all the help we provided in this trouble-shooting-section of the manual did not help to make the ASR Mini-Basis operate properly, please contact your authorized ASR dealer.

Please pack the units into the original ASR boxes and with the original ASR packing accessories. Your authorized ASR dealer will take care of your unit and will repair it properly.

5.0 Technical Data

The Mini Basis is a Phono-Preamplifier for Moving Magnet and Moving Coil cartridges.

<u>Signal-to-noise-ratio:</u>	better 60 dB (depends on settings)
<u>RIAA equalisation:</u>	better than 1dB from 20Hz to 20kHz
<u>Distortions:</u>	lower than 0.01% from 0,5V to 3VAC Output (100 Ohm load) at 1 kHz , from 20Hz to 20 kHz lower than 0.05%
<u>Transformer:</u>	72 VA, total buffering capacity 200.000 µF fuse 0,5 A slow 230 Volt, 1A slow for 115 V
<u>Dimensions:</u>	268 x 320 x 110 mm (width x depth x height)

Manufacturer :

ASR Audio Systeme
Friedrich Schäfer

Hohe Straße 700, House 5A,

D 35 745 Herborn / Germany

Phone +49 (27 72) 42 905,
Fax +49 (27 72) 40 488

E- Mail ASR@ASRAudio.com

Internet www.asraudio.com

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