

The evolution of the ASR Emitters

Beginning of the 80er years, the company presented Schaefer and Rompf the integrated-amplifier Emitter.

The ASR Emitter. Emitter of the music- the Emitter of the Emotion was born !

An complete new series of amplifiers was born. It was completely different from the usually designed units available till then. That started a whole new series of developments.

The ASR Emitter got from the first appliance at an exceptional purpose-design, which was created from practical considerations :

- * A casing of acrylic-glass with big heatsinks at both sides
- * a simple, logical operation with only three knobs

Why a casing of acrylic - because it sounds simply better! We found out, that an amplifier with acrylic-casing is sounding more musically than the same construction sounds in a metal-casing.

Acrylic has simply much fewer and lower resonances than steel or aluminium, a reason why there are so many beautiful record players with turntables and casings of acrylic material.

A round knob lies simply better in the hand than a button - turns is more logical than buttons
Also the technology of the Emitter rather is unconventional from the beginning :

The goal was from the beginning to combine the precision and strength of powerful solid state amplifiers with the inner silence and balance of good tube-amplifiers.

The Emitter was at that time a complete new design approach- not a normal pre- main amp configuration- just a main amplifier with input selector and volume control.

This gives you all advantages of an short and direct signal path- and you don't need an additionally pre- amplifier.

The Emitter followed the approach to make the signal path as short as possible .
With this the concept of the ASR Emitter was groundbreaking for many new amplifier designs from other manufacturers.

Another major design step was the external power supply. That keeps the disturbances from the power network and the vibrations of the transformers outside the sensible amplifier part !

The external power supply was the consistent continuation of the ASR development.
Find new ways to get closer to the original !

The Emitter uses Mos Fet transistors cause they have a very linear relation between input and output signal- like tubes. This delivers the combination of power and precision with a homogeneous sound figure.

With this basic ideas the ASR Emitters had been manufactured from the beginning until today –

Although the technique inside the amp has changed over the years.

At the beginning, only a few Emitters had been manufactured for the circle of friends - however the special character the ASR Emitter spoke it around itself with music-lovers. up to the Hifi press - in the first review in 1985 in the German Stereoplay magazine the Emitter immediately was classified into the absolute top class !

Then, the Success of the Emitters started, more and more Emitters were ordered and were sold, the company ASR Audio was growing and growing to the with sales all over the world.

The Emitter. the first generation. the Basis of further developments !

The first Emitters had been built in 1982. The first series of only 4 pieces still horizontal heatsinks and built in Transformer. The next series was more conventional vertical heatsinks of 200 mm with separate power supply.

The Transformers had been in the main unit at the first models. From 1983 on we used external power supply units. It was a aluminium case with two ring core transformers and a standby transformer.

In **1985** we presented a new version with a horizontal main-circuit board. The buffering elkos had been positioned under the main board. By this the unit could be made with a lower height- what gave the Emitter a better appearance.

From the year 1987 on the rectification of the Emitter was transferred into the power supply unit. Therefore we used larger 19 inch casing, where we had space for additionally capacitors. From this new technology we got a better sound-picture with improved precision and stability.

In 1988, the ring-core transformers used until then had been replaced with the tonally much better and more stable PM (Philpert – Mantelschnitt) transformers replaces.

From 1991 the Emitters got a complete new design :

In 1991 we presented a complete new design of the Emitter with a new circuitry using double-sided pcb boards. The first version had been manually operated with a normal Potentiometer.

From 1992 on the Emitter got a relay stepped attenuator with micro-controller, an LCD display and remote control.

From 1993 on the Emitter got an energy-savings-circuit in the power supply unit. In case the user don't need the full power output capacity the Emitter can be switched to the so-called Energy saving mode. In this case the output power is just 25 %, but the power consumption is also only 30 %.

The Emitter II plus got two separate power supplies, one for each channel.

From 1994, on the Emitter has got a new Led display with 25 mm high digits. The signal wiring inside was from then on made from pure silver.

To the end of the year 1994, Mr. Rompf retired from the company Schaefer and Rompf. He went to his occupation -driving motorcycle and opened a motorcycle-store.

The company was renamed end of 1995 in ASR Audio System Friedrich Schaefer.

In the year 1995, we presented the High Definition version of the Emitter. It was one of the first amplifiers using the ultra fast Schottky rectifier technology. By this the sound got a new quality, much more precise, with a larger and open soundstage. In the same way the sound figure became even more smooth and relaxing.

From 1997 we used especially for use in audio equipment designed Mos Fet Power transistors from Toshiba with much faster rising time and higher power capacity.

For the powersupply we used a new case that was much more stable using thicker steel and had a new 30 pole connector. Also new better shielded transformers had been used. We also used better faster capacitors. The rectifier is made from 56 Schottky diodes.

With these whole improvements, the Emitter got a clearly better resolution of fine details with better dynamics while the sound picture remained smooth and relaxing.

Since summer 1997 an additional accumulator-power supply was available for the input stage.

Since the year 2000 the **“Version blue”** with blue Display, blue Leds on the main circuit board and silver heatsinks and chrome knobs was available.

Since December 2001 improved equipment:

* New ASR Design remote control made full milled from Corian with mechanical switches with perceptible click, to solid metal buttons and a flat lithium battery for long life span.



* New ASR power cable **"ASR Magic Cord"** for higher dynamics with larger wirings, double shielding, transparent coat in silver optics, more flexible.

* New circuit board for the **balanced input** with special designed chip and adjustable input impedance with Dip switch between 1 and 10 K.

- * New, more solid terminal clamps with turning toggle for **Emitter I** similarly as with emitter II.

- * The power supply unit has been equipped with **improved transformers** and new PCB board. The two transformers are **switched** separately with **6 relays** from energy saving to **full power** mode.

All **8 voltages** and the operation modes can be controlled with **12 Leds** direct behind the front plate. On request an active filter with an high current fuse is available.

- * New **rotary pulse encoder** for the volume control with more gentle run.

new since September 2003

- * new **microcontroller** with built in program memory result in more stable operation.

new since March 2004

- * high frequency uncoupling of the heat sinks. This improves the dissolution of detail and the precision of the sound picture.

New since October 2004

- * modified **filter** in **the battery** power supply. Thus devices with Battery power units play clearly more **dynamically** and still with **more punch** in the low region.

New since January 2005

Emitters with **balanced input** have a new engraftment for the inputs with Ph,CD1,CD2,Tu,TA,Vi.

- * The anyway not usable **"CD" RCA** socket, which is connected with the positive input of the balanced receiver, is void thereby.

- * A new **substantial strain relief** made of **metal** for the cables from the main unit to the power supplies makes the emitter more attractive also on the backside.

- * The **connecting cable** to the PSU have got a new **low loss** isolation.

- * The Emitter power supplies had been equipped with a **low-loss high load fuse** and a new, bigger **21 Amp AC power plug** for the AC cable.

- * As a result of the lower losses in the AC connection the sound of the Emitters has got more **dynamic**, more **precision**, and the bass has got more **punch**.

- * On **demand** the Emitters can be equipped with **WBT** RCA inputs and loudspeaker terminals
- * **Chrome** buttons and feet instead of golden ones will be available with **no extra cost**.
- * The **PCB boards** of the Transformer normal and the Battery power supplies have got an **optimized layout** as well as **rounded corners**.
- * The **high frequency compensation** of the output stages in the Emitter can be increased with a switch on the mainboard. This increases the **stability** with difficult loads like high-capacitive cables or **impedance critical** loudspeakers. The **sound** becomes at the same time a little bit **smoother**. By the way also the sound in the **burn-in time** can be arranged somewhat more pleasant.

At High End 2005 Show in Munich we presented :

The new Emitter Exclusive version 2005 !

The **ASR Emitter Exclusive** are equipped with complete new cases for the power supplies, a new very high-quality patch cord and transistor bars made out brass.

The **ASR Emitter II Exclusive** has got new heat sinks.

The **new cases** with the dimensions 460 x 320x 160 mm are a little bit larger than the ones before, have **rounded edges** and are manufactured out of **stronger** and thus more **stable** sheet metal. The side parts are manufactured together with the base plate from one piece. The entire structure consists of fewer but more stable parts. The Ventilation openings form a ASR Logo.

Caused by **larger available space** the parts and pcb boards can be installed more separated from each other. Thus the **transmission** of fields and resonances are **reduced**. Also the Standby transformer is installed now lying instead of standing.

The new **ASR Emitter Exclusive** power cases are about 3 kg more heavily than the predecessors, the entire structure are clearly more stable and have lower resonances.

The new, clearly sturdier plugs originate from the industrial electronics and are supplied from the well known German manufacturer **Harting**.



The **Battery Power Supply** of the ASR Emitters Exclusive has got a complete new design :

The Batteries are mounted now at the rear wall. The main pcb board is positioned in front behind the front plate. The **charging transformer** is installed **central** lying in the equipment.

The control Leds can be seen from the front by the front plate window. The internal wiring has become shorter. The new housing has by the new, more stable structure has it smaller resonances, and sounds clearly better than the previous version.



The amplifier part of the **ASR Emitters Exclusive** series has a solid transistor mounting bar made from **massive brass**.

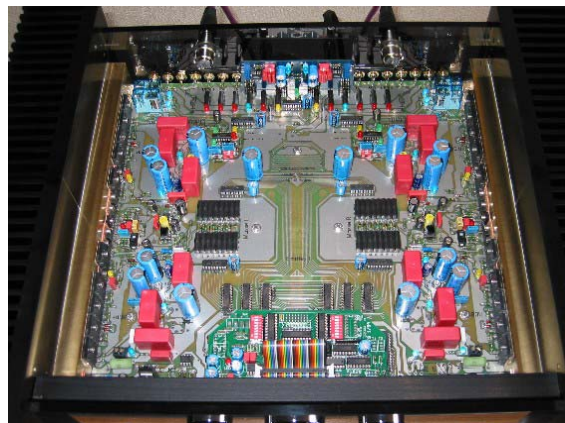
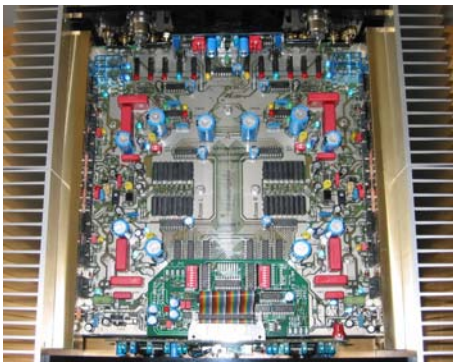
In the former models the bar has been made from black anodized aluminium. Brass is clearly heavier and has a substantially more harmonious resonance spectrum than aluminium.

Brass is therefore also the material for many music instruments !

The **ASR Emitter II Exclusive** are equipped with a new heat sinks with a changed, more rigid profile. By both changes the resonances in the structure of the **ASR Emitter II Exclusive** are lower.

The new ASR Emitter Exclusive sounds still more dynamic and more precise than the former models.

The new Brass **mounting bars** :



The Emitter had be offered now for more than a quarter of the century
ASR has a very good position in the audio market all over the world.

The ASR Emitter with his unique design and many exceptional solutions in details have a very special sound figure for th music lovers : Very smooth and relaxing he shows all the details,
But puts it in a organic and harmonic way of music reproduction.

This allows the user to enjoy the music with pleasure for a long time !

The ASR Emitter is hand made complete in Germany under very good working conditions. The factory is situated in a quite place near the wood.

Through constant optimization of the production, the ASR Emitter can be offered for a fair price to th customers.

In his long production-history, the Emitter has always been improved tactfully,
the dynamics clearly grew. The Emitter became more efficient and easier in use.

But from the beginning, the ASR Emitter fascinates our customers with his subtle, well designed performance of the Music. He prefers to put the ears and eyes to the music and not to himself.

Meanwhile, the Emitter found supporters and fans all over the world. ASR Audio was a great story of success and has now a world-wide distribution-network.

The Emitter developed a momentum and puts the realization of the life-dream from Friedrich Schaefer.