



stage accompany

Product News

Low frequency drivers

The cones of the SA 1503 loudspeakers will soon be replaced by a new type. The cones are better finished and have stronger adhesives.

The new cones are provided with high performance and high precision assembled surrounds. They are recognizable at the purple glow of the black cardboard. Currently we are also developing a 4 Ohms SA 1503 loudspeaker for increased output in o.a. the Blue Box. We expect to show it at the Frankfurter Musik Messe.

5 Volts upgrade kit

Due to the fact that the PMS-5000, the PPA-1200, and the PPE-2410 make use of a microcontroller to control and monitor the device, problems may arise when the mains power provision is of poor quality.

This results in the device being reset during a mains power dip. The audio signal is shut off during the reset condition which means that you are out of sound for a moment.

To avoid these "resets", from January 1, 1990, a FREE kit is available to upgrade the +5V power supplies of the above mentioned equipment. It allows the mains voltage to dump to 60% of the nominal value. Furthermore, all equipment that is going to be manufactured from January 1, 1990, will contain the adapted +5V power supply. The order/article numbers are:

PMS-5000 and PPA-1200: 2995.5012

PPE-2410: 2995.2410

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How does it work?

The unregulated voltage of the +5V power supply is constantly monitored by the circuit. As soon as the voltage dumps below a certain level, current is drawn from the unregulated +18V power supply.

In all three cases, the TIP32 power transistor can be replaced by an upgrade printed circuit board (PCB). There are no further hardware modifications except that the high power resistor in series with the +5V regulator has to be removed. Furthermore, a wire from the upgrade PCB has to be connected with the unregulated +18V voltage.

A more detailed installation prescription has been enclosed with the upgrade kits.

MLSSA interface: AI 110

The MLSSA interface unit mentioned in the previous Newsletter (July 1989) will be available from January 15, 1990. The retail price will be Dfl 1.995,-. The B&K 4007 microphone retail price is: Dfl 2330,-

The interface's model number is AI 110. It comes with a combined user and service manual, a separate Neutrik Speakon connector and a stereo

cinch cable to connect it with the MLSSA PC-board.

The order/article number is 0861.3300.

CD Player with pitch control

In the Netherlands, Stage Accompany recently introduced a CD mix system with pitch control, developed and manufactured by a new Dutch company.

The system comprises two parts: a modified frontloaded Philips CD Player and a Pitch Control Mix Unit called MU 1, housed in a 9.5 inch enclosure. To enable to mix two CDs, two mix units can easily be connected to fit in a professional 19 inch rack. The unit can also be flush-mounted, for example near the mixing desk or the turntable(s).

The pitch can be controlled continuously between -7 % and +7 % using a 70 millimeter fader. Besides, the pitch

Note:

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Most of the information is confidential!

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can be temporary increased or decreased with 2 % using up/down buttons to get the two tracks exactly "in phase". A pitch on/off switch can be used to bypass the pitch control. A pitch display has been provided with a readout accuracy of 0.1 %.

The autobegin function determines the modulation start of a track and can be used to play a track instantly after the push of a button. Start or cue points can be conveniently and accurately determined using the pause, play, and search functions.

The mechanical stability of the CD player is superior to most other CD players. Using the latest generation of CD player integrated circuits and mechanisms, the player provides fast access and minimal sensitivity to shocks and vibrations which is extremely important for professional use.

The system will be tried out in the Netherlands until mid 1990. Then the acceptance and reliability will be evaluated after which we will decide if the system can be introduced outside the Netherlands under the Stage Accompany name.

We will keep you in touch of any developments regarding this system!

NOTE: We kindly ask you to inform us about the need in your country for a system described above. You may provide us with technical suggestions, sales prognosis, etc. This information will be very valuable when we have to decide if the system is going to be introduced outside the Netherlands or not.

SA 1600

In february at the Frankfurter Messe, Stage Accompany will launch a new power amplifier, the SA 1600.

The SA 1600 is a compact, high power design. Most important feature of the SA 1600 is its high efficiency, allowing the amplifier to produce more continuous power in less space (19 inch, 2 U, 395 mm deep) with more than double peak power compared to the SA 900C.

Weight is also reduced with 10 Kg to approx. 17 Kg.

The preliminary specifications are as follows:

Output power into	continuous:	peak:
8 Ohms	2 x 320 W	2 x 440 W
4 Ohms	2 x 460 W	2 x 800 W
2 Ohms	2 x 610 W	2 x 1100 W
8 Ohms bridge mode	1 x 900 W	1 x 1600 W
4 Ohms bridge mode	1 x 1200 W	1 x 2200 W

frequency response 10 Hz - 70 kHz, -3 dB
10 Hz - 20 kHz, -0.3 dB

THD 0.2% 20 Hz - 20 kHz,
impedance >2 Ohms, all
powers, 10% under clip level

THD (continued)	< 0.02% 1 kHz, 200 W/8 Ohms < 0.05% 20 kHz, 200 W/8 Ohms
IMD	< 0.05% 2 kHz - 20 kHz, 200 W/8 Ohms
CMMR	75 dB, 20 Hz - 20 kHz
S/N ratio	110 dB, 20 Hz - 20 kHz
Slew rate	40 V/uS
Damping	2500, 10 Hz - 1 kHz, 10V into 8 Ohms 1000, 10 kHz, 10V into 8 Ohms
Output DC offset	5 mV
Input sensitivity	+ 6 dBm for 50 V output

Other features are:

- Softstart with AC peak current less than 5 A at 220V.
- dB calibrated input attenuators.
- DC fan with continuous variable speed.
- 2 Speakon output connectors per channel.
- Bridge mode switch and bridge mode speakon output connector.
- Dynamic Damping Control.
- Automatic balanced/unbalanced selection.

The SA 1600 is soon to be followed by the SA 800, that has equal electrical specifications except for the output power:

Output power into	continuous	peak
8 Ohms	2 x 160 W	2 x 210 W
4 Ohms	2 x 230 W	2 x 400 W
2 Ohms	2 x 300 W	2 x 550 W
8 Ohms bridge mode	1 x 450 W	1 x 800 W
4 Ohms bridge mode	1 x 600 W	1 x 1100 W

Physical dimensions of the SA 800 are also the same, weight will be about 14 Kg.

The amplifiers are intended to succeed the SA 500 and 900 series. Those series will remain available for some time. Page 3 of this newsletter shows a drawing of the SA 1600.

PPA 1200

Recently the PPA 1200 has been modified. The most important new features include:

- The crossover filter is on a separate PCB now so the filter configuration can easily be changed.
- Special attention has been given to internal screening so the hum level is approximately 10 dB lower.

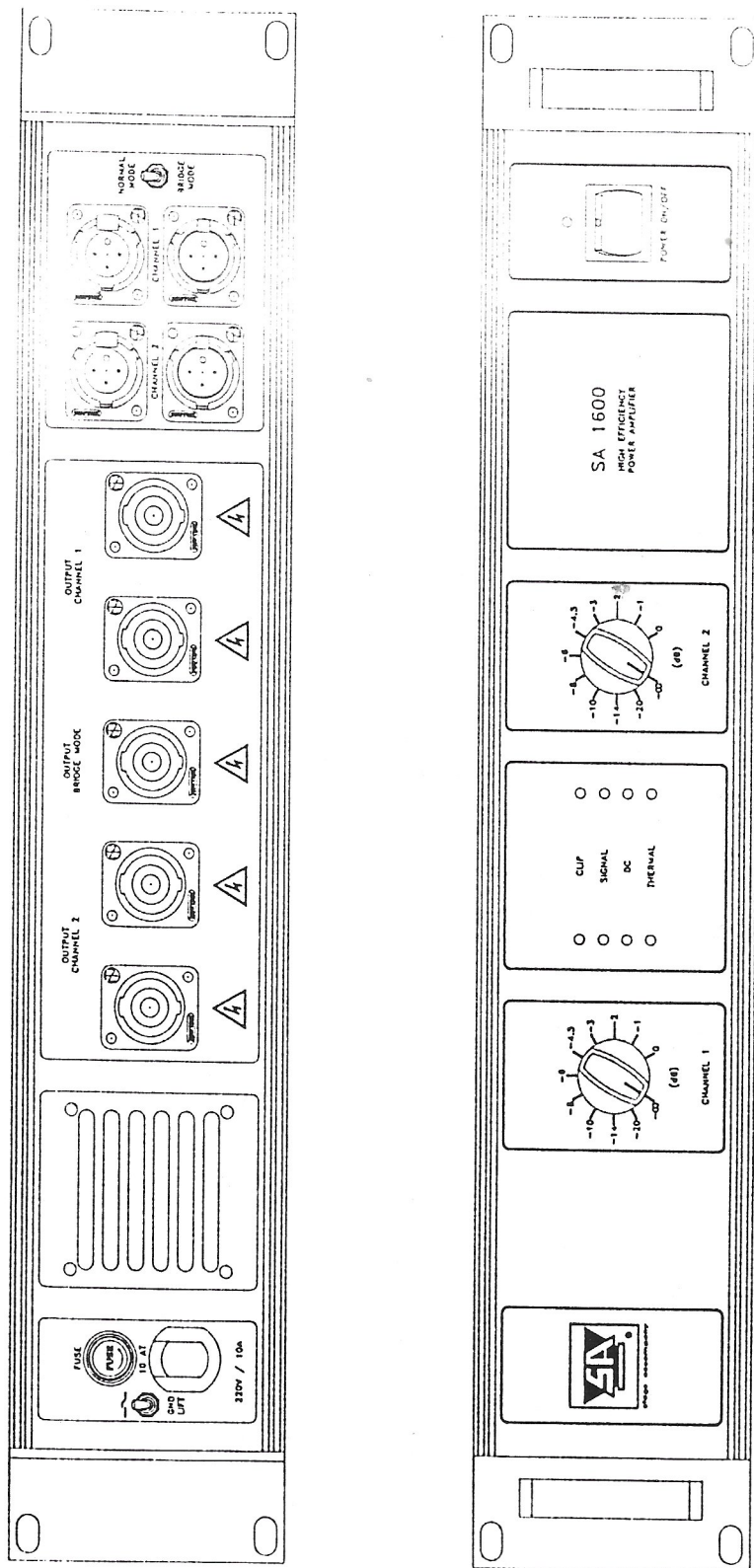


Figure 1. The SA 1600, front and back view.

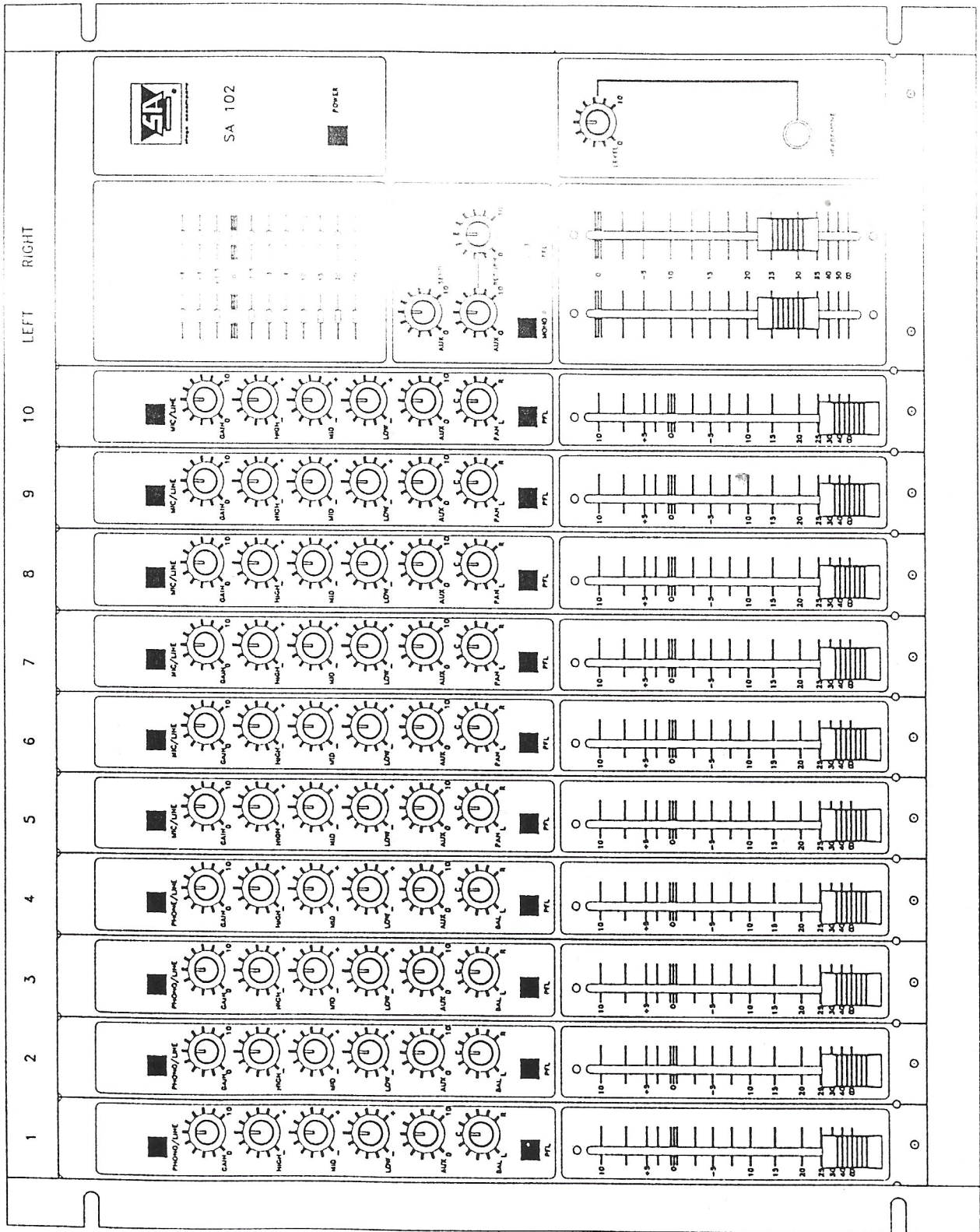


Figure 2. The SA 102, front view.

- The high frequency common mode rejection is now also adjustable which gives a 25 dB improvement at 20 kHz.
- The mains inrush current when turning a channel on is now limited to 35 A.
- The signal inputs now have both male and female XLR connectors to make linking between various PPAs possible without splitter cables.

All technical spec's are equal or better than the previous version. The front panel layout remains exactly the same, the only external differences are the two male XLR's at the back.

A supplement for the service manual with all technical details has been sent to you in the beginning of november. If you do not possess the manual or the update, contact us.

These modifications are valid for any PPA 1200 with an identity code of 271 and higher.

New modular mixing console SA102

Also at the Frankfurter Messe, Stage Accompany will show a new modular mixing console. This desk is primary intended for use as disco, keyboard and small size PA mixer.

The console is housed in a 9 units, 19 inch frame. Each frame is standard fitted with an integrated master and power supply unit. The master unit contains the mains switch, auxiliary return controls, a mono switch, the headphones section and two 11 led signal bars.

10 other modules can be installed in any combination of three different types of modules:

- A mono microphone/line input module.
- A stereo line/phono input module.
- A blank module.

Each input module features a mic (or phono) / line switch, gain control, a three band equaliser at fixed frequencies, two auxiliary sends (concentric controls), panorama/balance control, a pre fade listening button and a smooth running 100 mm fader. Each mono module has an insertion point.

Any combination of stereo, mono and blank modules can be made on clients specification, e.g. 2 stereo modules, 6 mono modules and 2 blank modules.

Page 4 of this newsletter shows a drawing of the SA 102.

The order/article number for the SA 102 is 0105.0102.

Small universal loudspeaker system

A number of requests have reached us regarding the availability of a small loudspeaker system comparable to JBL Control 1, Control 5, Yamaha NS10 etc. This loudspeaker should be suited for application as fill-in loudspeaker in discotheques and bars, for surround sound applications and as a nearfield monitor in studios. Stage Accompany is currently considering the development of such a system, based on a small version of the

Compact Driver. For this we would like to learn what quantities would be involved.

The acoustical specifications would be;

Frequency range	60Hz-30kHz
Sensitivity	90dB@1W@1m
Maximum acoustical output	105dB continuous
	115dB peak @1m
Maximum dimensions (WxHxD)	380x210x200mm

Please let us now if you see a market for a loudspeaker like this and what quantities would be involved so we can make a estimate of the retail price.

Stage Control

From Januari 1, 1990, the Stage Control software package will be available including manual. The Package contains the Blue Box, PPA 1200 and PPE 2410 modules. Each module or any combination of modules is available on request. The article / order numbers and prices are known to you.

Market News

Japan

We would like to present to you Hibino Corporation as our new Japanese importer.

Hibino Corporation was founded in 1964 by Hiroaki Hibino. Now, more then 200 people are employed by the Company. Since it was established, the company has expanded its operations into the manufacture and sale of professional audio equipment, PA, visual and AVC system operations

Suggestions

If you do have suggestions for new products, missing products in our product line or comments on existing products, please contact us by telephone or fax. We will evaluate all the ideas. Valueable ideas will be rewarded! Currently we are considering to produce a mixing console for outdoor applications. We think it should have the possibilitys of a soundcraft 400 B series console. Please give us suggestions on this item (need/no need etc.).

Response

We still haven't got any response to our question's regarding feedback, marketing figures, prognosis etc. To give these activities a formal base you will soon receive a letter from our president which deals a.o. with this problem.

Company News

Mister P. van Lutervelt has left our company. We wish him all the best in his next job. His work will be taken over by E. Wijnker until we find a new candidate.

Int. Distributors

Belgium

STAGE ACCOMPANY INTERNATIONAL
HOORN (The Netherlands) tel.: 31229012542
fax.: 31229011192

Canary Islands

STAGE ACCOMPANY ESPAÑA
BARCELONA tel.: 3432141412
fax.: 3432144893

Denmark

STAGE ACCOMPANY SCANDINAVIA
GOTEBORG (Sweden) tel.: 4631134950
fax.: 4631113472

England

STAGE ACCOMPANY UK
CAMBRIDGE tel.: 44353662278
fax.: 44353667637

España

STAGE ACCOMPANY ESPAÑA
BARCELONA tel.: 3432141412
fax.: 3432144893

Finland

STAGE ACCOMPANY SCANDINAVIA
GOTEBORG tel.: 4631134950
fax.: 4631113472

Germany

STAGE ACCOMPANY DEUTSCHLAND
NORDHORN tel.: 49592116196
fax.: 49592177580

Greece

ICHOS
ATHENS tel.: 3018823533
fax.: 3018216606

Hong Kong

STUDER REVOX tel.: 8525412050
fax.: 85258151735

Iceland

RAFIS HF
REYKJAVIK tel.: 3541686620
fax.: 3541689925

Israel

KILIM & SONS LTD.
HAIFA tel.: 9724640222
fax.: 9724672911

Italia

KENNEL SN.C
TORINO tel.: 3911612148
fax.: 3911612148

Japan

HIBINO CORPORATION
TOKYO tel.: 8137404391
fax.: 8137404360

Korea

ANGEL MUSICAL INSTRUMENT CO., LTD.
SEOUL tel.: 8225516319
fax.: 8225516322

La France

CAW S.A. SONOSS
LOMME tel.: 3320925091
fax.: 3320923377

Norway

STAGE ACCOMPANY SCANDINAVIA
GOTEBORG (Sweden) tel.: 4631134950
fax.: 4631113472

Österreich

KÜHNL & WÜRZER
LINZ tel.: 43732668125
fax.: 43732282249

Portugal

STAGE ACCOMPANY ESPAÑA
BARCELONA tel.: 3433177066
fax.: 3432178184

Sweden

STAGE ACCOMPANY SCANDINAVIA
GOTEBORG tel.: 4631134950
fax.: 4631113472

Switzerland

Italian speaking part:
KENNEL SN.C
TORINO (Italy) tel.: 3911612148
fax.: 3911612148

French speaking part:

CAW S.A. SONOSS
LOMME (La France) tel.: 3320925091
fax.: 3320923377

German speaking part:

STAGE ACCOMPANY DEUTSCHLAND
NORDHORN (Germany) tel.: 49592116196
fax.: 49592177580

Taiwan

TAISHENG TRADING CORPORATION
TAIPEI tel.: 88625313802
fax.: 88625637278

Stage Rent

Nijverheidsweg 9-V Tel: 31340263936
3433 NP Nieuwegein Fax: 31340263984
The Netherlands

Stage Accompany International

Anodeweg 4 Tel: 31229012542
1627 LJ Hoorn Fax: 31229011192
The Netherlands Telex: 37989 Stage nl



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