Domino 2

Operating Instructions

Contents:

1. Introduction

Welcome to AER. Thank you for purchasing the DOMINO.

Based on our Compact/Bingo acoustic system we have developed the DOMINO, a 100-watt system, that combines the excellent tone of the Compact with increased power and higher efficiency. The DOMINO is - of course - dynamically controlled and equipped with: two parallel power-amplifiers, two 8" twin-cone loudspeakers, 4 channels with mute option and a new 32bit digital AER-effect with 16 presets.

To obtain maximum enjoyment from your amplifier please read this manual carefully before using your DOMINO.

2. Precautionary Measures

When you use your DOMINO, always take basic safety precautions to reduce to a minimum the risk of injury by fire or by electric shock.

Read all the directions in these operating instructions and make sure that you understand them.

Pay attention to all warnings, instructions and supplementary text written on the DOMINO.

Always use a grounded mains connection with the appropriate supply voltage. If you are uncertain whether the connection is grounded, have a qualified expert check it.

Use the same type and value to replace a broken fuse. Never try to repair it

Do not let your DOMINO come into contact with water and never touch the amplifier if you have wet hands. . Always operate your DOMINO in a place where no one can trip over the cables causing injury to themselves or damage to the cables. Do not operate your DOMINO near devices with strong electromagnetic fields such as large mains transformers, generators, neon lights etc. Do not lay the signal cable parallel to power lines.

Do insure that your DOMINO is switched off before plugging in the power cable to the mains.

Before cleaning your DOMINO, unplug it from the mains supply. Use a damp cloth to clean it. Do not use cleaning agents, and be careful that no liquid finds its way into the amp.

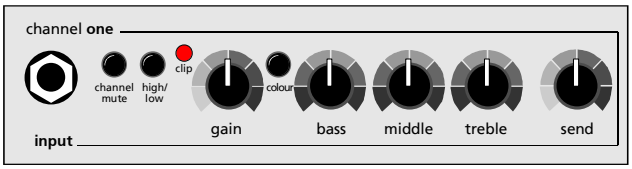
There are no parts within your DOMINO that can be serviced by the user. Refer all repairs and servicing to an agent authorised by AER. Any unauthorised repair or servicing will void the two year warranty!

Keep these operating instructions in a safe place.

3. Operating Elements

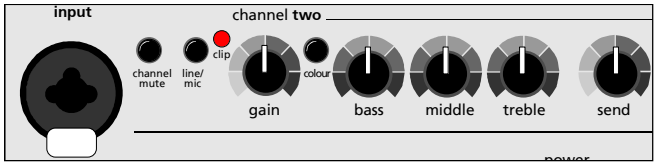
Front above (from left to right):

channel one:



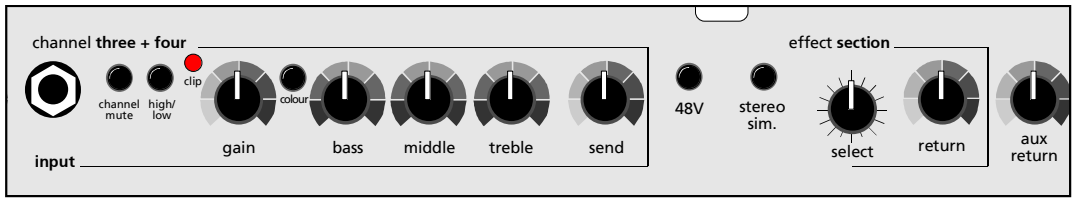
input (1)	socket for a 6.3 mm jack plug, high impedance piezo input
channel mute	switch to mute the channel
high/low	switch to adjust input sensitivity **high** for high input sensitivity **low** for low input sensitivity
clip	overload indicator
gain	input level control
colour	mid-range contour filter
bass	bass tone control
middle	middle tone control
treble	treble tone control
send	effect send control, adjusts the channels effect amount

channel two:



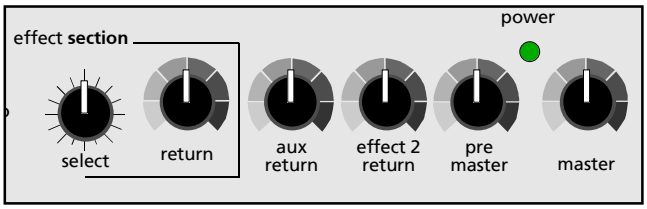
input (2)	Combi-Connector with a socket for a 6.3 mm jack plug and XLR male socket
channel Mute	switch to mute the channel
line/mic	switch to adjust input sensitivity **line**: sources with line level, instruments with active preamplifiers and magnetic sound pick-ups, connnected to jack input only **mic**: balanced microphone input with 48V phantom power to be used with XLR and jack input, 48V for XLR only
clip	overload indicator
gain	input level control
colour	mid-range contour filter
bass	bass tone control
middle	middle tone control
treble	treble tone control
send	effect send control, adjusts the channels effect amount

channels three & four:



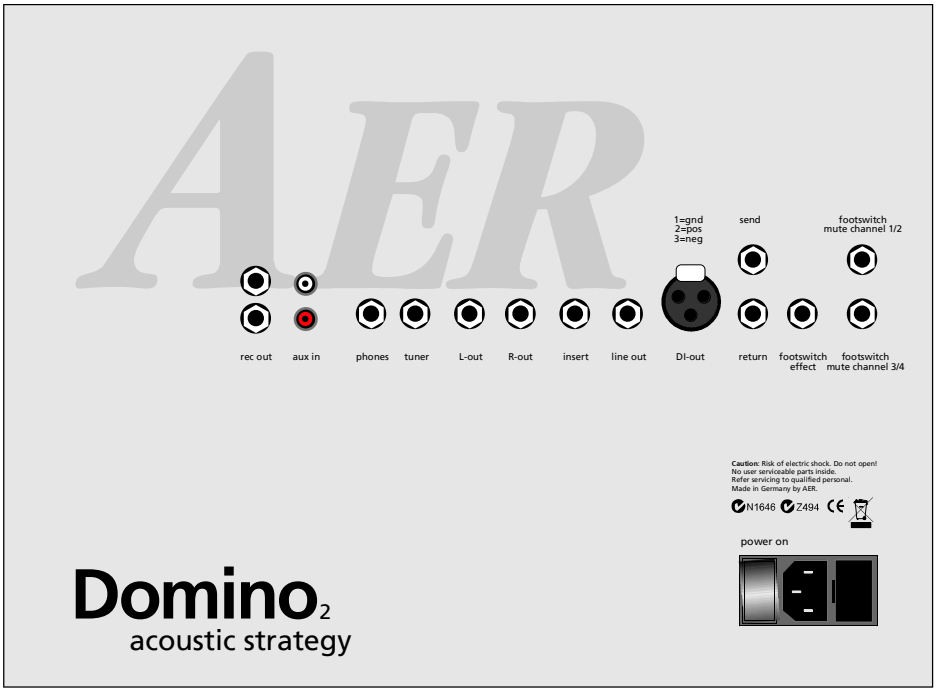
input (3)	Combi-Connector with a socket for a 6.3 mm jack plug and XLRmale socket
channel	Mute switch to mute the channel
line/mic	switch to adjust input sensitivity **line**: sources with line level, instruments with active preamplifiers and magnetic sound pick-ups, connnected to jack input only **mic**: balanced microphone input with 48V phantom power to be used with XLR and jack input, 48V for XLR only
gain	input level control
input (4)	socket for a 6.3 mm jack plug, high impedance line/piezo input
channel mute	switch to mute the channel
high/low	switch to adjust input sensitivity **high** for high input sensitivity **low** for low input sensitivity
clip	overload indicator
gain	input level control
colour	mid-range contour filter
bass	bass tone control
middle	middle tone control
treble	treble tone control
send	effect send control, adjusts the channels effect amount for both channels
48V	48 volt phantom power on/off
stereo sim.	stereo simulation on/off

effect/aux/master:



effect select	switch to select between 16 different effect presets 10 reverbs, 4 delay, 2 chorus (see app. 1)
return	effect-return-control, sets the total level of the internal effect
aux return	aux-return-control, sets the level of signals connected to aux-in
effect 2 return	effect-return-control, sets the level of signals connected to return
pre master	level control for L-out, R-out and rec-out
power	power indicator lamp
master	overall volume level control

Back (from left to right):



l-, r-, rec-out	recording out, L-out, R-out, adjustable via post master, pre EQ, effect, stereo performance of external effect, aux-in and stereo simulator (switchable)
aux in	RCA input-socket for cd, etc., stereo
phones	stereo headphone output, post effect and aux-in without stereo simulation
tuner	tuner output, pre eq and effect
insert	insert loop, seriel for e.g. effect with: input –> return = ring output –> send = tip or to connect AER amps with the link function. (see Append. 2)
line out	output for e.g. active extension, post eq and effect, level depending on master
DI out	balanced XLR-output pre master, pre eq and effects
send	output for external effect unit, post eq
return	stereo input for an external effect unit or other signal source
footswitch effect	internel/external effect on/off, stereo
footswitch mute 1/2	socket for a stereo footswitch to mute channels 1/2
footswitch mute 3/4	socket for a stereo footswitch to mute channels 3/4
power	combined mains switch with mains socket and fuse holder

4. Summary of Operations

• Connecting and starting-up:

Check to ensure that mains voltage at your location corresponds to what is permitted to operate the DOMINO. You will find the necessary information on the sticker at the rear side of the amp under 'voltage'. Before switching on the amp, 'Master' and 'Return' controls should be turned to zero position (as far left as they may go) and all other controls to middle position. Then make all necessary cable connections (mains, instruments, microphone and link). Now you can turn on your DOMINO with the power switch on the rear of the amp. The green power indicator shows that the amp is working.

• Level control

You can use the 'High/Low'-switch, the 'Line/Mic'-switch and the 'Gain'-control to adjust the various pick-up systems and signal sources to the DOMINO. The 'Clip'-indicator shows that the input signal is too high. To ensure distortion-free reproduction you should then reduce 'Gain'-control or 'Volume'-control on your signal source.

Clipping can already accure at very low or even maximum gain depending on the output of your source. Pleace verify: set the master control to zero position. Play at a high dynamic level and increase the gain level to the point the clip indicator starts to flicker. With that you can be sure that youre source is able to fully address the inputstage. Reduce the gain a little bit to generate additional dynamic headroom and then use the master control to adjust the final overall volume.

Temporary flickering gives no cause of concern. But you should pay attention not to get above this level. Please consider the Domino has four channels. For individual input gains add up and may distored the signal incoming the effect unit. This distortion is not monitored by the clipping indicator. It is only audible. In any case of audible distortion reduce the gains.

You can mute the channels either by mute switches per channel or via footswitch.

• Tone controls

The three band tone controls of your DOMINO are designed to fulfill the special requirements of acoustic instruments as well as general demands of other sources. The 'Colour'- switches activate a 'mid-cut treble-boost'-filter, which is particularly appropriate for fingerstyle techniques.

• Effects

The DOMINO has an integrated (internal) digital 32 bit AER-effect processor, providing you with 16 presets (reverb, delay, chorus – see Appd. 1) to be selected by the 'Effect Select'-switch. The 'Return'- control determines the intensity of the total effect (as far left as possible = no effect).

The individual effect sends adjust the amount of effect per channel.

Furthermore a supplementary effect device can be connected (external effect). For this purpose, use the sockets 'Send' and 'Return' on the rear of the DOMINO ('Send' to the input, 'Return' to the output of the external effect). The intensity will then be determined by the Effect 2-return.

You can connect a stereo (double) footswitch either to footswitch effect or footswitch 1,2,3,4 to switch the effects on/off (internal and external) or mute the channels.

• Stereo-Simulation

The DOMINO is mono! Thus you find the same effect signal on 'R-Out' and 'L-Out'. These outputs are designed to connect AER active fullrange systems to (AG8, CX8, AS Q8, AS 281) and adjust the overall volume by the pre master independend from the Domino volume. If you switch on the stereo simulation now a more or less stereo like, broader sound is generated. On stage, Domino as monitor the sound stays unchanged.

• Insert

The insert loop is an input and output on a stereo socket to link different effect devices (EQs, compressors…) in serial mode with:

tip = send –> output and
ring = return –> input.

You can also use this insert as additional line output separately or additional line input separately or to link several AER-amps with insert function. (Domino, Compact classic, AG8) For each function you need a special cable accordingly. For the special AER link function refer to see appd. 2.

Link mode secures that all signals of all connected AER-amplifiers are audible on every connected amp even with different effect settings without feedback. The only implication is, gains are depending on each other. However linked amps in conjunction with an active AER fullrange system work as a complete reinforcement/monitor system easy to be operated from the stage.

OK? We hope you enjoy your DOMINO!

5. Technical Data

Inputs	**Ch 1/4:**	Line: unbalanced, 2.2 Meg, 22mV, -33dBV
	high/low	attenuation 10dB
	Ch 2/3:	Line: unbalanced, 1 Meg, 20mV, -34 dBV Mic: balanced, 1,2 K (unbalanced use 4K) jack and XLR 1,7 mV, -55dBV 48V phantom power with XLR only
Eff. Return		>12K, 2 x 400 mV -8dBV, mix level 0 dB
Aux-In L/R		> 6K, 2 x 120 mV, -18dBV
Outputs		Tuner: -10 dBV, Line: +1 dBV, depending on master DI: -24 dBV, Send: -1 dBV L-Out: -1 dBV, R-Out: -1 dBV insert: send 47 ohm, +1dBV, return 22K, +1dBV
Phones		stereo, max. 2x100 mW, 32 ohm, mutes speaker
Footswitch effect on/off		Tip = build-in effect, Ring = external effect
Footswitch mute 1,2,3,4		1/3 = Tip, 2/4 = Ring, Sleeve: ground
EQ, Ch. 1/2/3 u.4		Bass: 100 Hz / ± 8 dB Middle: 600 Hz / ± 2 dB Treble: 10 kHz / ± 8 dB
Analog Signal Processor:		Limiter, Subsonic Filter und Enhancer
Effect		32bit AER-Effectprocessor, 16 Presets
Power Mains		220-240 V / 50-60Hz / 220 W Mains Fuse: 1.6 A slow

Power Amp Rating	2 x 60 Watt / 4 ohm RMS
Speaker	2 x 8" twin-cone speaker system (96 dB 1W/1m, freq. range 60 Hz - 18 kHz)
Cabinet	0.59' (15 mm) birch plywood
Dimension	14.37' (365 mm) high, 16.55' (420 mm) wide, 11.81' (300 mm) deep
Finish	waterbased acrylic, black spatter finish
Weight	31 lbs (14 kg)

• 0 dBV ~ 1V

Specifications and appearance
subject to change without notice

AER Audio Electric Research

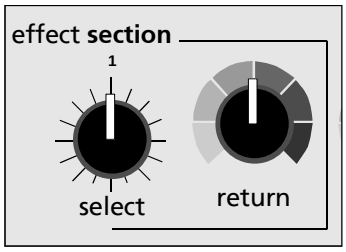
Audio Electric Research GmbH

www.aer-amps.com

Appendix 1

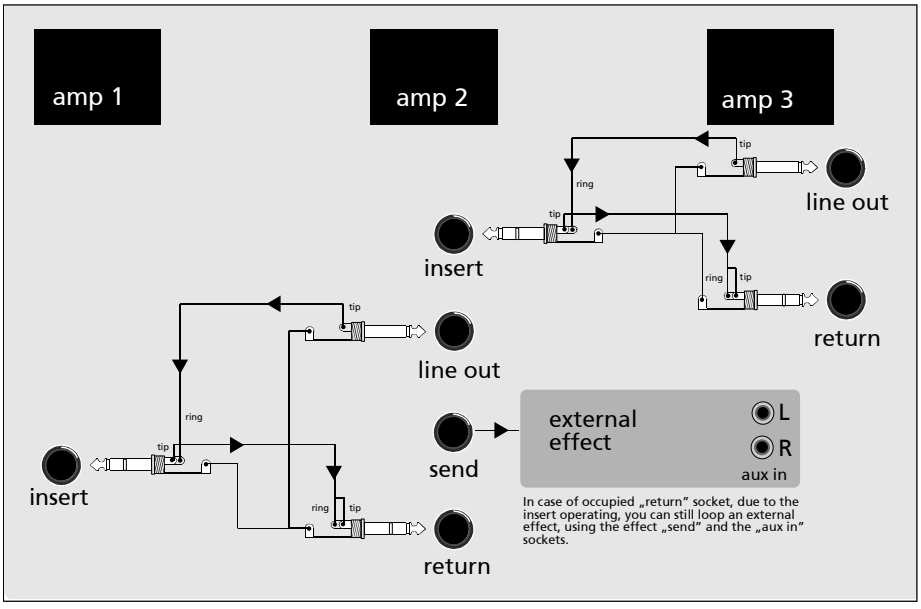
Effectchart

Hall	1	Room, small/bright
	2	Room, mid/soft
	3	Hall, small/bright
	4	Hall, short/vocal
	5	Hall, mid/vocal
	6	Hall, large/bright
	7	Church, mid/wood
	8	Church, large/marble
	9	Ambience, glass/hall
	10	Ambience, large/warm
Delay	11	Slapback
	12	Long Pan
	13	Slapback vocal
	14	Slapback mid/ vocal
Chorus	15	Slight silky
	16	Frozen

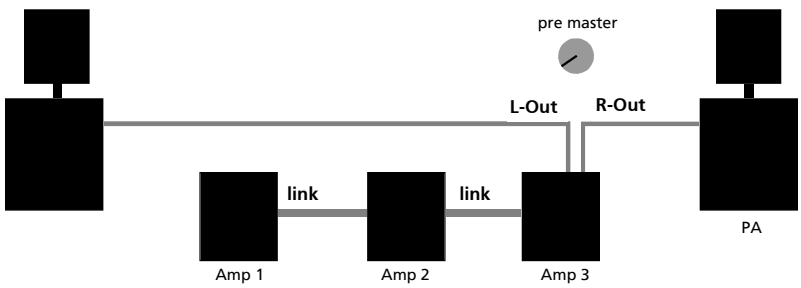


Appendix 2

A. Insert Point

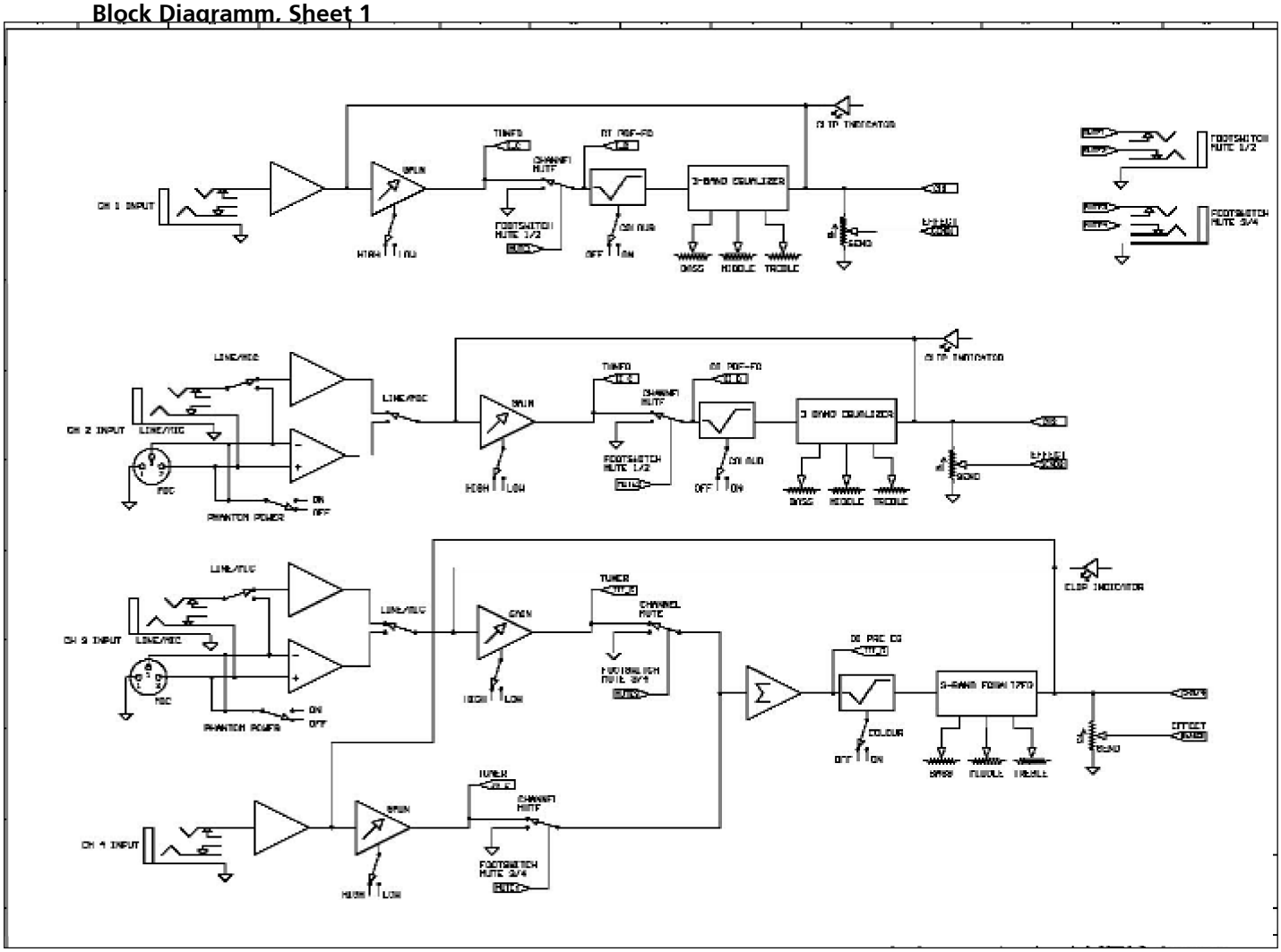


B. Connecting diagram, link R-out, L-Out

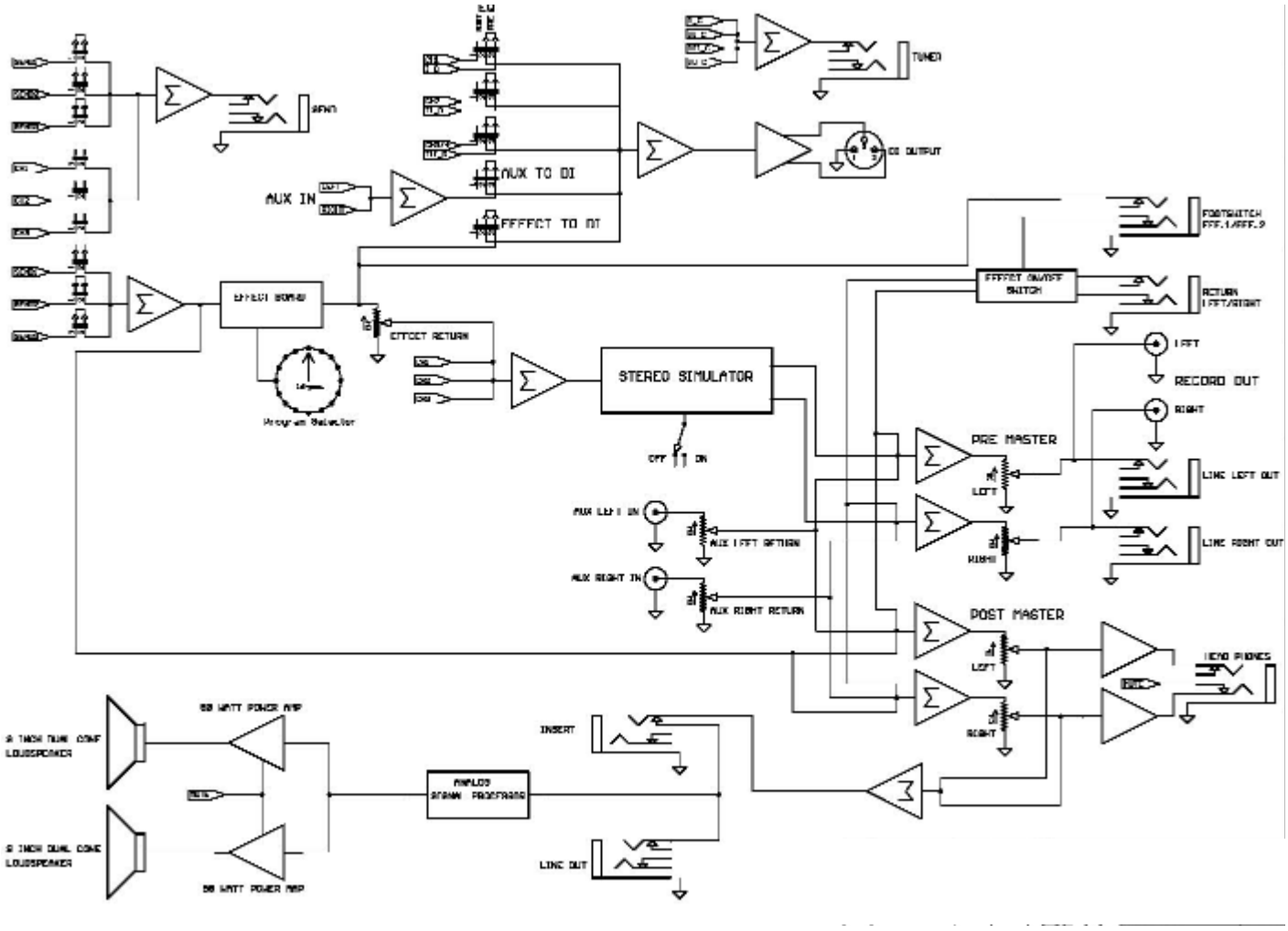


Appendix 3

Block Diagramm, Sheet 1



Block Diagramm, Sheet 2



6. Regulations for Disposal

Regulations regarding the disposal of old electrical equipment.

It is not allowed to dispose of old electrical equipment together with domestic refuse.

Old AER GmbH electrical equipment should not be disposed of at public electrical refuse disposal centres.
The company AER GmbH is solely responsible for the disposal of old AER GmbH electrical equipment, which is marked with the sign of a refuse bin.

Before disposing of old AER GmbH electrical equipment carrying a refuse bin sign, please contact us.
We will take care of a professional and self-financing disposal.

For old AER GmbH electrical equipment not carrying a waste bin sign, the owner is responsible for a professional disposal according to legislation.

In this case we will gladly help you and recommend a professional disposal contact.

By calling us on **+49 (2361) 89 17 89**, we can give you qualified information regarding the disposal of old AER GmbH electrical equipment.

Declaration:

The EU directive regarding the disposal of electrical equipment, (WEEE,22/96/EC) has been implemented according to the law.

All AER GmbH electrical equipment relevant to the WEEE regulations, manufactured since 13.08.2005, has been supplied with a crossed waste bin sign. This sign denotes that the equipment may not be disposed with the domestic refuse.

Publication in this form has been required since 13.08.2005.

The Company AER GmbH is registered at the German Registration Office, EAR, under the WEEE registration number DE2631529

EU, Norway, Iceland and Liechtenstein

In the European Union, Norway, Iceland and Liechtenstein, disposal of electrical refuse together with domestic refuse is not allowed.

All AER GmbH electrical equipment relevant to the WEEE regulations, manufactured since 13.08.2005, has been supplied with a crossed waste bin sign. This sign denotes that the equipment may not be disposed with the domestic refuse. This is also valid in Norway, Iceland and Liechtenstein.

Publication in this form has been required since 13.08.2005.

The European regulations of WEEE have been implemented in the national laws of all European countries. Because of this we are unable to offer standard disposal solutions.

The distributor or importer in a particular country is responsible for abidance of the countries regulations, and is must thereby be responsible for the disposal of old electrical equipment, according to the national laws.

For other Nations

For professional disposal of old electrical equipment, please refer to your local distributor or the relevant authority.