Special note for the US market:

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

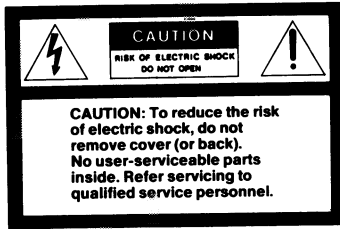**WARNING: To prevent fire or electric shock, do not expose this appliance to rain or moisture.**

This symbol indicates that a dangerous voltage constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Special note for the UK market:

IMPORTANT!
The wires in the mains lead supplied with this apparatus are coloured in accordance with the following code:

BLUE: NEUTRAL
BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured BLACK.

- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured RED.

Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient the receiving antenna
- Relocate the computer with respect to the receiver
- Move the computer away from the receiver
- Plug the computer into a different outlet so that computer and receiver are on different branch circuits.
If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:
"How to Identify and Resolve Radio-TV Interference Problems".
This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-00345-4.

Table of contents

The Beolab/Beovox 4500 is a piece of functional art – a sophisticated combination of superb sound and unique design.

The loudspeaker unit is matched by a built-in amplifier which gives your music a tremendous boost, both in quantity and quality. And, to ensure the best sound possible, the speaker is equipped with the Dynamic Bass Equalizing system which extends the low-frequency performance.

If your Beolab 4500 is connected to compatible Bang & Olufsen products, the display on the panel speaker will keep you informed about the current state of your audio or video system – accurately and yet discretely.

We are pleased that you have decided to bring the Bang & Olufsen panel loudspeaker into your family, and we feel confident that it will enhance the beauty of your home while giving you extraordinary musical experiences.

This manual describes how to mount the loudspeaker on your wall and how to connect and adjust it to your audio or video system.
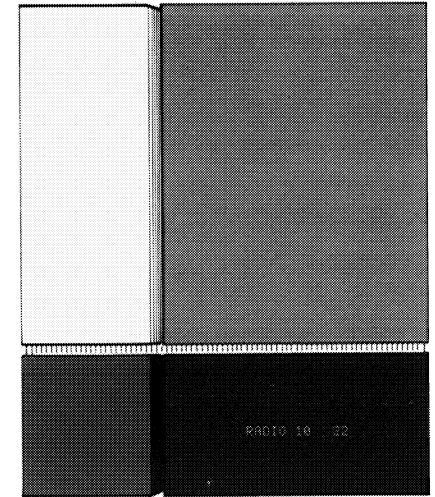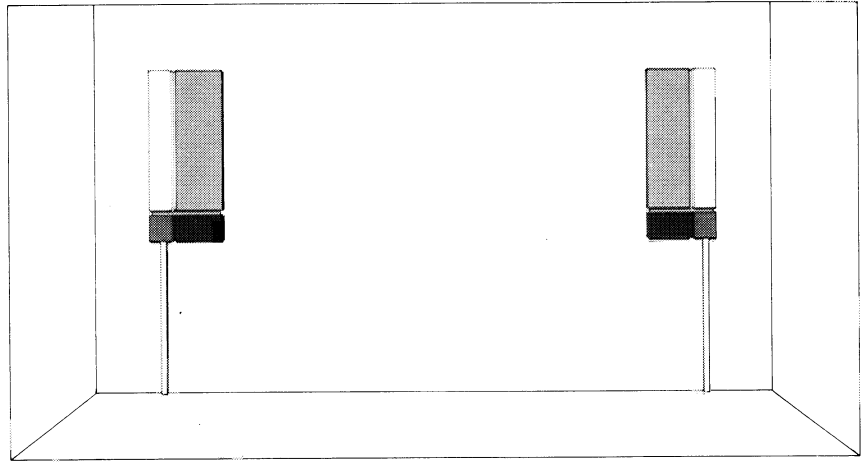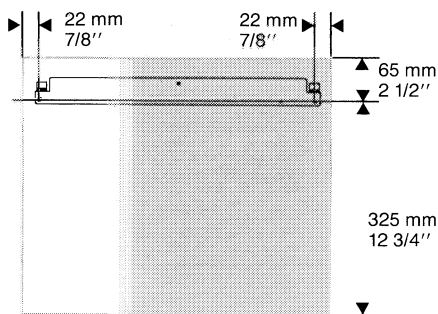

Beolab 4500
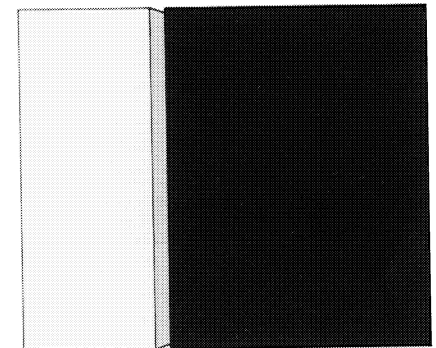
Beovox 4500

Placement

The Beolab/Beovox 4500 is desig-
ned to be hung on a wall. The wall
is not used merely as a supporting
structure – it is in fact essential to
the sound of the speaker as it
helps boost the bass response and
ensures optimum speaker perfor-
mance. Either speaker of the set
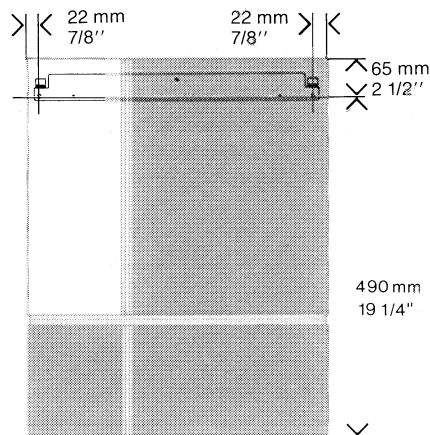supplied can be used as right or
left speaker.

Mounting your loudspeaker

The panel speaker is supplied with a wall bracket on which to mount the speaker. When deciding where to drill the holes for the wall brackets, make sure that there is enough space for the speaker and for adjustment. Do not forget to allow for the Bang & Olufsen cable covers, if any (see page 21).
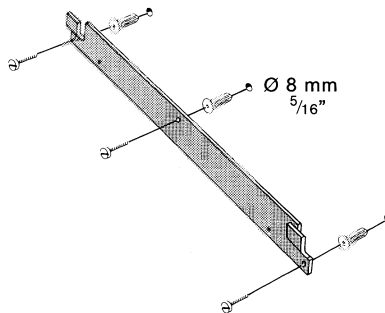
Using the screws and the wall anchors, fasten the bracket onto the wall.

The wall anchors are of a special type. They can be used in both solid walls and light partition walls.

Beovox 4500:

22 mm
7/8''

22 mm
7/8''

65 mm
2 1/2''

325 mm
12 3/4''

Beolab 4500:

22 mm
7/8''

22 mm
7/8''

65 mm
2 1/2''

490 mm
19 1/4"

Ø 8 mm
5/16"

Important installation note for the USA!

Interior walls are often constructed of gypsum panels – known as drywall or wallboard – secured to vertical wooden studs.

Wallboard is not satisfactory material to support the weight of the Beolab/Beovox 4500.

If you must mount the Beolab/Beovox 4500 on a wall of the previously mentioned nature, we recommend that at least one of the two mounting screws be a lag screw and that the lag screw be securely screwed into one of the wooden vertical wall studs.

Squeeze the two flaps to insert the wall anchor into the hole.

If the wall anchor is used in a plaster board wall, the two flaps must be completely unfolded before the screw is inserted. Use the tool supplied to do so.

(We recommend that your carry out the connections described in the next section before mounting the Beolab/Beovox 4500 on the wall bracket).

Mount the loudspeaker on the wall bracket, making sure that it is seated securely on the hooks.

Adjust the adjustment screw up or down to ensure that the speaker is vertical and level.
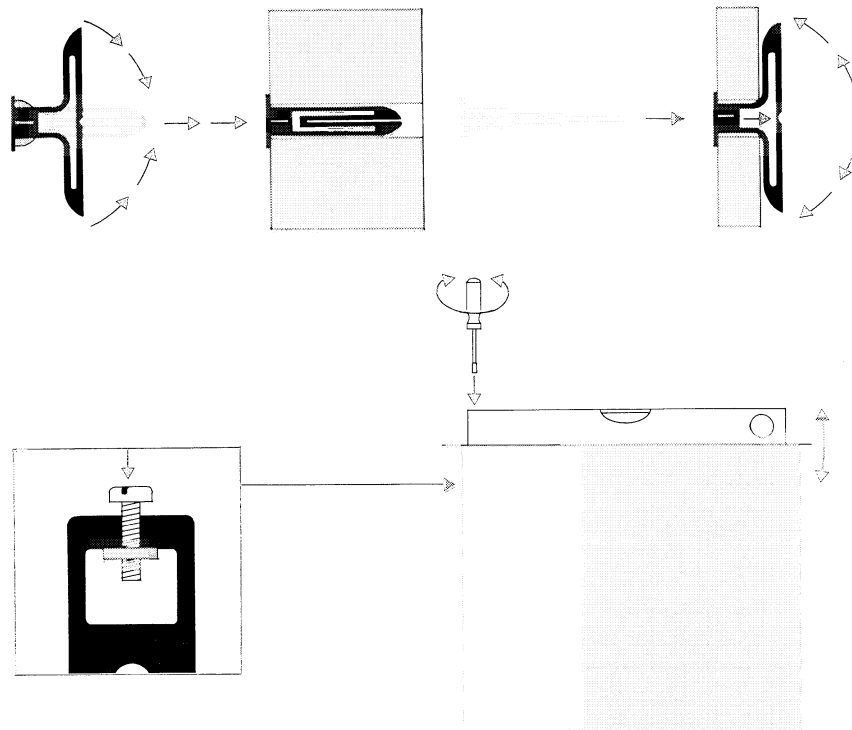
Connections Beolab

The Beolab 4500 can be connected to either a receiver, a TV set, a Master Control Link 2 A or a Master Control Link 2 AV (MCL 2 A/ 2 AV).

NOTE! Before connecting the Beolab 4500 to the receiver, TV set or MCL 2 A/2 AV, make sure that the VIDEO/AUDIO/OFF switch *on the side of the speaker is set to OFF. This precaution applies to both the initial set-up and to later re-arrangements of connections.*
    Do not switch on your audio or video system until you have set the switches on the rear side of the speaker to their correct position (see pp 12-13).

To obtain a neat installation, you may run the cables in the grooves provided on the rear of the Beolab 4500.
   For lengths and part numbers of the cables which can be used, see the section "Optional accessories".

Connection to a Bang & Olufsen receiver or TV set or an MCL 2 A/2 AV
When connecting your Beolab 4500, you may use *either* the POWER LINK socket *or* the SPEA-KER LINK socket.

○ POWER LINK 1 & POWER LINK 2 sockets
(using an 8-pin DIN Power Link cable).
   The sockets marked POWER LINK 1 & 2 are identical. This means that either socket can be used when you connect your Beolab 4500 by means of a Power Link cable.

○ Plug one end of the cable into one of the POWER LINK sockets on the Beolab 4500.
○ Plug the other end of the cable into one of the POWER LINK sockets on your receiver, TV set or MCL 2 AV.
○ Repeat the procedure for the other speaker.
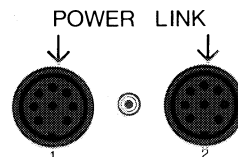
POWER   LINK

In order to avoid running cables from both speakers to your receiver, TV set or MCL 2 AV, you may loop the signal through:

○ Using one Power Link cable, connect one speaker to your receiver, TV set or MCL 2 AV.
○ Using the other Power Link cable, connect the speakers to one another.
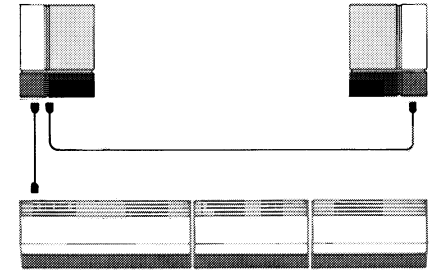
○ SPEAKER LINK socket (using a *shielded* cable with 2-pin, 3-pin or 4-pin DIN speaker plugs)

○ Plug one end of the cable into the SPEAKER LINK socket on the Beolab 4500.
○ Plug the other end of the cable into the appropriate socket on your receiver, TV set or MCL 2 A/ 2 AV.
○ Repeat the procedure for the other speaker.
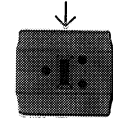
SPEAKER LINK
↓

Connection to other receivers

When connecting your Beolab
4500, you may use *either* the
SPEAKER LINK socket *or* the LINE
IN socket.

○ SPEAKER LINK socket
(using a *shielded* cable with 2-pin
DIN speaker plugs)

○ Plug one end of the cable into
the SPEAKER LINK socket on the
Beolab 4500.
○ Plug the other end of the cable
into the appropriate loudspeaker
socket on the receiver.
○ Repeat the procedure for the
other speaker.

SPEAKER LINK
↓
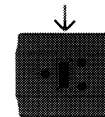
○ LINE IN socket
(using a *shielded* cable with phono
plugs)

○ Plug the appropriate cable end
into the LINE IN socket on the
Beolab 4500.
○ Plug the other end of the cable
into the appropriate phono sok-
ket (pre-amplifier output) on your
receiver.
○ Repeat the procedure for the
other speaker.

LINE IN
↓
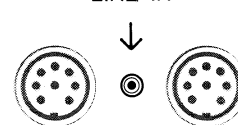
Connection Beovox

The stripped wire ends of the spea-
ker cable supplied must be con-
nected to the two terminals on the
rear of the Beovox 4500:

Connect the wire end with the
coded line to the red terminal
(positive) and the other wire end to
the black terminal (negative). Then
connect the 2-pin DIN plug at the
other end of the cable to the
appropriate loudspeaker socket on
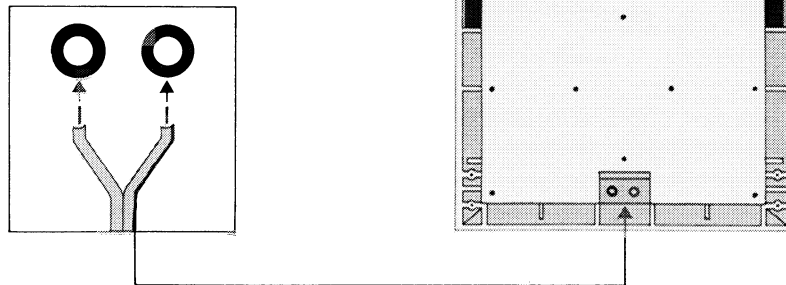your receiver or your TV-set.

Setting the switches on the rear side of the Beolab 4500

On the lower rear side of the spea-
ker there are two switches:

○ The input level switch (the longer
of the two – 4 settings)
○ The mode switch (the shorter of
the two – 3 settings).

Input level switch

Set the input level switch to the
position required to match the Beo-
lab 4500 to the output of your
receiver or TV set. If in doubt about
your receiver/TV output, consult
your Bang & Olufsen dealer.

POWER LINK socket:
If you have connected your spea-
ker via the POWER LINK socket,
there are no requirements as to the
setting of the input level switch,
because the acoustic level is inde-
pendent of the setting of the switch.

SPEAKER LINK socket:

Switch position	Receiver/TV output* 4 ohm	8 ohm
—	- 40 W	- 20 W
=	40 - 80 W	20 - 40 W
≡	80 - W	40 - W
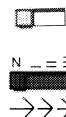
* 4 ohms and 8 ohms receiver/TV output
specified for 4 and 8 ohms speaker
impedance.

LINE IN socket:
Set the switch to N.
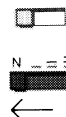
Mode switch

Once connected to the mains sup-
ply, the Beolab 4500 is in the
stand-by mode. The stand-by mode
is indicated by a red light next to
the display.

The speaker switches on auto-
matically when it receives a signal,
unless, of course, the VIDEO/
AUDIO/OFF switch is set to OFF
(see page 14).

*Set the mode switch to either A,
L (left) or R (right):*

Sockets	Mode switch
POWER LINK	
Left speaker	L
Right speaker	R
SPEAKER LINK	A
LINE IN	A

When the TV set/receiver to which
the Beolab 4500 is connected goes
into stand-by, the loudspeaker
automatically switches itself off –
i.e. reverts to the stand-by mode.

This happens instantly if you
have connected the speaker using
a Power Link cable or a shielded 4-
pin DIN speaker cable. In all other
cases the Beolab 4500 goes into
stand-by after approx. 3 minutes.

VIDEO/AUDIO/OFF switch

In order to obtain the right status
reading from the display, the
VIDEO/AUDIO/OFF switch must be
set to the correct position:
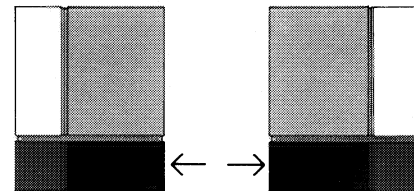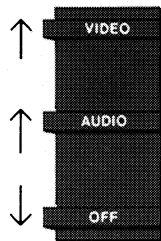
VIDEO
if the Beolab 4500 is connected to
a Beovision.

AUDIO
if the Beolab 4500 is connected to
a Beomaster, Beocenter or MCL 2
A/2 AV.

For the use of the OFF position,
see the sections "Connections"
(page 8) and "What's wrong?"
(page 19).

Display Beolab 4500

If connected to a compatible Bang & Olufsen receiver, TV set or MCL 2 A/2 AV, your Beolab 4500 displays information about the source of the sound reproduced by the speaker. However, in order to give full status reading in the display, the Beolab 4500 must be connected to a Bang & Olufsen product with POWER LINK sockets. If you use a 4-pin DIN speaker cable to connect your Beolab 4500 to the SPEAKER LINK socket on a Bang & Olufsen product equipped with POWER LINK sockets, you still get full reading in the display.

If the Beolab 4500 is connected to a product without POWER LINK sockets, the status reading will be either slightly reduced or completely missing, depending on the product. If in doubt about which kind of status reading you can get, consult your Bang & Olufsen dealer.

```
RADIO 10      22
```

| Source | Program Track | Volume |

The displayed cues and symbols are not all visible at the same time.

SOURCE

RADIO	Radio
RADIO FM	FM broadcast
RADIO AM	AM broadcast
CD	Compact disc player
A.TAPE	Audio tape recorder
A.TP2	Second audio tape recorder
PHONO	Record player
A.AUX	Auxiliary audio product

TV	Television
SAT	Satellite television
V.TAPE	Video tape recorder
V.TP2	Second video tape recorder
V.AUX	Auxiliary video product

Recording:

| A-REC | Recording on audio tape recorder |
| V-REC | Recording on video tape recorder |

PROGRAM/TRACK

10	Preset radio or TV station; Track number on CD, audio tape or video tape
>	Tuning towards a higher frequency
<	Tuning towards a lower frequency
< >	The highest/lowest frequency has been reached
>>	Winding forwards towards the end
<<	Rewinding backwards towards the beginning
< >	Pause/stop

VOLUME

00-98	Volume level range
-- --	Speakers muted
> <	Equal balance in both speakers
LOUDNESS OFF	Loudness function cut out
LOUDNESS ON	Loudness function cut in

BALANCE ><	Balance is neutral
BALANCE >1	More sound in right speaker (>1 to >9)
BALANCE 1<	More sound in left speaker (1< to 9<)
CNT-BAL <>	Center balance is neutral
CNT-BAL <1>	Sound shifted 1 step outwards from center (<1> to <9>)
CNT-BAL >1<	Sound shifted 1 step inwards towards center (>1< to >9<)
BASS 0	Bass is neutral
BASS + 1	Bass 1 step above neutral (+1 to +9)
BASS − 1	Bass 1 step below neutral (−1 to −9)
TREBLE 0	Treble is neutral
TREBLE + 1	Treble 1 step above neutral (+1 to +9)
TREBLE − 1	Treble 1 step below neutral (−1 to −9)

17

Status reading on recording

Recording <u>pause</u>:
A-REC   22 ⌐
                              ⌐ Shown alternately at short intervals
RADIO   10   22 ◄⌐

Recording <u>in progress</u>:
A-REC   22 ⌐ Shown for 5 seconds after the recording has
                              started and is then followed by

RADIO   10   22 ◄⌐ Remains in the display as long as recording
                              is in progress

If, during a recording, you adjust the sound,
the above sequence is repeated afterwards.

Missing source

LOAD ┐
     │   Shown alternately 3 times at short intervals
CD   ◄┘

Protection circuit activated

ERROR   ┐
        │ Shown alternately at short intervals
TURN OFF ◄┘

For instructions about what action to take,
see the section "What's wrong?".
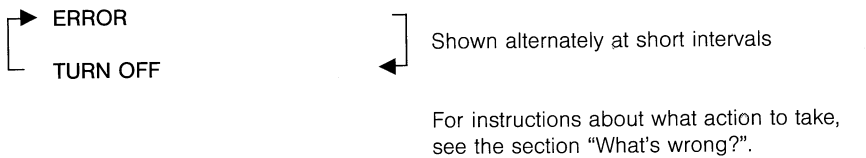
What's wrong?

Display shows ERROR/TURN OFF

The Beolab 4500 features a protection circuit which is automatically activated if something is wrong, e.g.
- if the amplifier unit is overheated,
- if a fault occurs in the amplifier which could damage the loudspeaker units.

If the protection circuit is activated, the sound disappears and the display will alternately show ERROR and TURN OFF.

No display

Should this happen
○ set the VIDEO/AUDIO/OFF switch located on the side of the speaker to the OFF position,
○ allow the amplifier time to cool off,
○ set the VIDEO/AUDIO/OFF switch to the AUDIO or VIDEO position again.

If there is no light in the display
○ disconnect the Beolab 4500 from the mains supply,
○ reconnect the Beolab 4500 to the mains supply.

If the sequence ERROR/TURN OFF is still shown in the display, contact your Bang & Olufsen dealer.

If there is still no light in the display, contact your Bang & Olufsen dealer. Do not cut the power supply in and out several times in a row.

Optional accessories

The accessories listed below are all
available as optional extras from
your Bang & Olufsen dealer.

Cables		*Part No*
	4-pin DIN shielded speaker cables	
	5 m (16')	6270336
	10 m (33')	6270352
	8-pin DIN Power Link cables	
	2.5 m (8')	6270417
	5 m (16')	6270418
	10 m (33')	6270419
	2-pin DIN shielded speaker cable	
	5 m (16')	6270350
Adaptor for Power Link		
	8-pin DIN female/8-pin DIN female	7229075

Cable covers

Metal finish:
The Bang & Olufsen metal finish cable covers are designed to match and enhance the beauty of the Beolab/Beovox 4500 while concealing the speaker cables. They come in the following versions:

Cable Cover 4500, length 1.30 m (51")   8960300

Plastic:
The Bang & Olufsen plastic cable covers are designed to help you conceal your cables in a neat way. They come in the following versions:

Length 2.50 m (98½")
Internal dimensions 10 x 20 mm ($^3/_8$" x $^3/_4$")   2560232

Maintenance

To make the stainless steel surfaces shiny, polish them thoroughly using a dry, soft cloth.
   Remove fingerprints and grease stains using a mild detergent on a soft cloth.

International guarantee

This Bang & Olufsen product car-
ries a guarantee against defects in
workmanship and materials. The
terms of the guarantee apply to the
country of purchase but will be met
by authorized Bang & Olufsen dea-
lers in other countries. The guaran-
tee period applying to the country
of purchase takes priority over
guarantee periods applying in other
countries, even where differences
exist.

In order to obtain service under
this guarantee, a certificate stating
the following information is requi-
red:

– Name of product and type number
– Serial number
– Date of purchase
– Guarantee period
– Dealer's or supplier's signature