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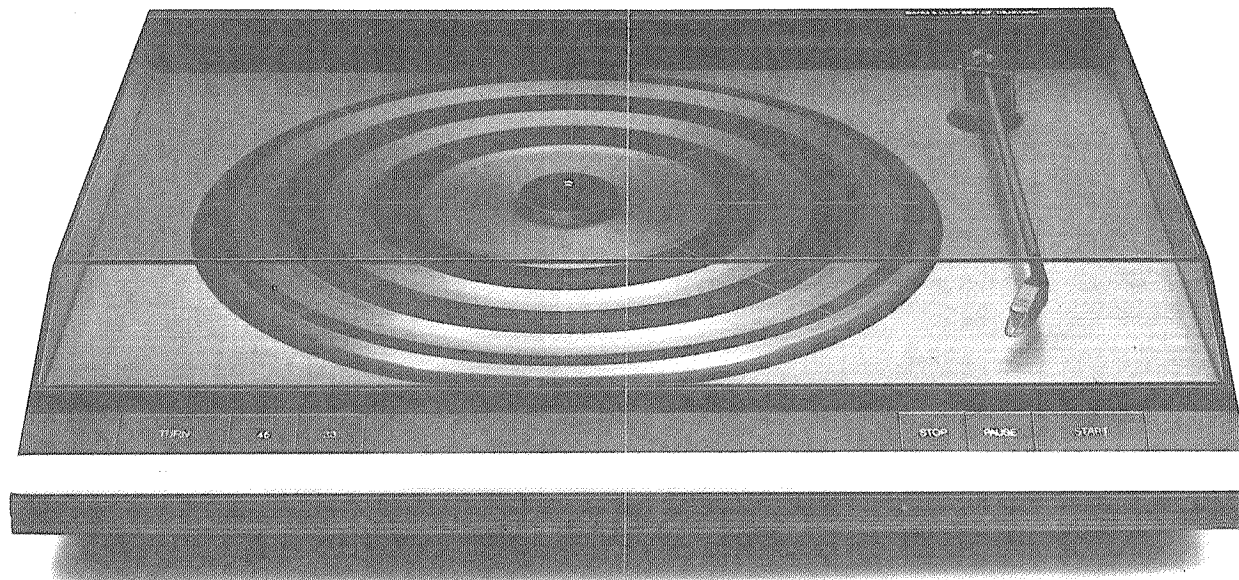
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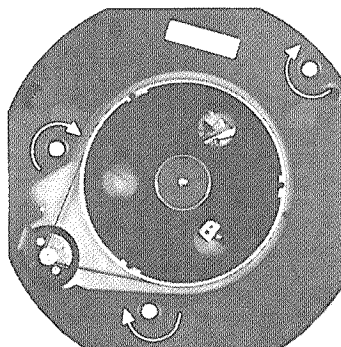
**BANG & OLUFSEN**

**BEOGRAM 2202-2402**



### Assembly of the Beogram

Special care has been taken to protect the record player against damage under transport.



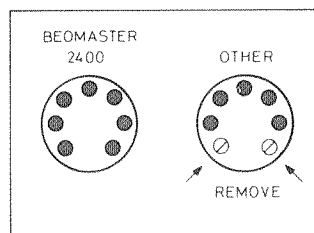
### Transport protective provisions and the turntable

Turn the three transit screws clockwise as far as they will go. Put the turntable down on the under-turntable. If you subse-

quently have to take off the turntable, the easiest way to do this is to first lift the record spindle and thereafter put your fingers in under the turntable rim. Keep the carton etc. for possible subsequent transport of your record player.

### Space requirements

Your Beogram can easily find room on a bookshelf. Be sure to allow a free height of at least 42 cm to enable the dust cover to be opened. Space requirements are 37 cm in depth and 45 cm in width.



### Connecting to an Amplifier or Radio Set

The Beogram 2402 DIN plug has seven pins to enable remote control in conjunction with the Beomaster 2400-2. When using the Beogram 2402 in conjunction with other radio receivers or amplifiers, the two outermost pins must be screwed of. Turn anti-clockwise with a small screwdriver.

### Mains

As supplied from the factory, the Beogram 2202-2402 is switched for operation from 180 to 265 volts, 50-60 Hz.

Switching to 110 volts can be done by making a wiring change inside the record player. Leave this to your dealer.

### Stylus force

The pickup arm is factory adjusted to the recommended stylus pressure, namely:  
MMC 20 E — 15 mN or 1.5 grams  
MMC 20 EN — 12 mN or 1.2 grams



### For the UK market only. IMPORTANT

The wires in this mains lead 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 set requires a **3 Amp.** fuse in the mains plug.



The Beogram 2202 – 2402 is very easy to operate:

Put a record on, and press START.

The player feels if the record is a 30-cm or a 17-cm one, and automatically guides the pickup in to the first groove and selects the correct speed.

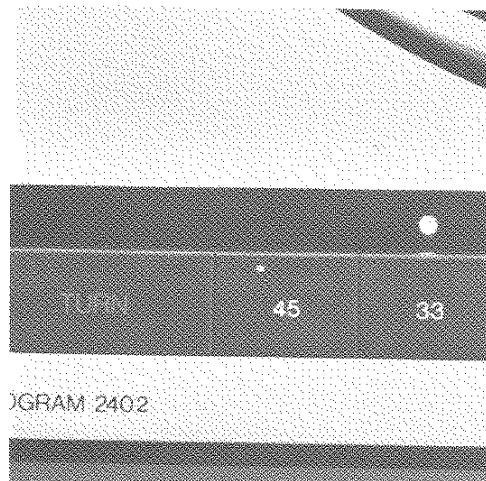
### STOP

To stop before the record has finished: Press STOP.

### PAUSE

Press PAUSE.

To continue playing from the same place press START. You may also move the pickup to another section and thereafter press START.



For special records proceed as follows:

17 cm 33 r.p.m.: Press START, and when the pickup has begun to lower press 33.

30 cm 45 r.p.m.: Press START, and thereafter 45.

25 cm 33 r.p.m.: Guide the pickup in to the first groove and press START.

### Beogram 2402, Remote Control

In connection with a Beomaster 2400-2 you can have remote control of the major function:

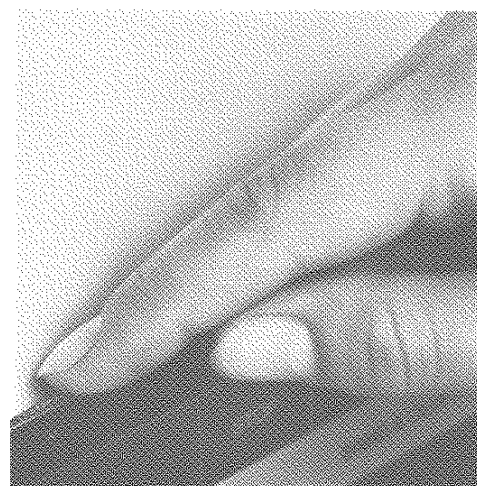
To start the record player:

Press the P button on the remote control unit.

Pause: Press the P button again.

To end the pause, once again press the P button: The tone arm will lower at the same place and continue playing.

Stop: Press an FM program or the STAND BY button on the remote control unit.



### Speed

Fine adjustment of pitch can be performed with a concealed knob. Normal setting is 0 on the illuminated dial.

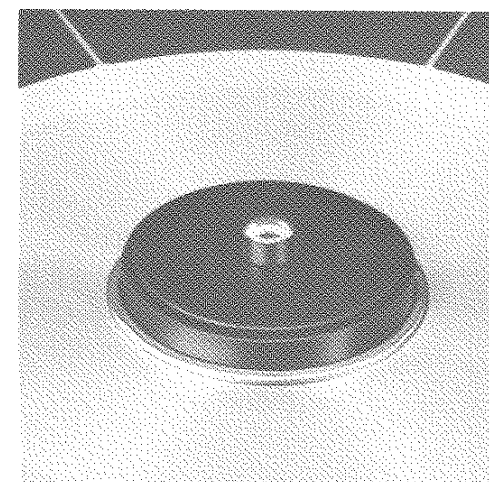
If a record is not recorded at the correct speed, or if you wish to match the pitch of the record to a musical instrument, turn the knob and pointer towards + or –.

### Centre adaptor

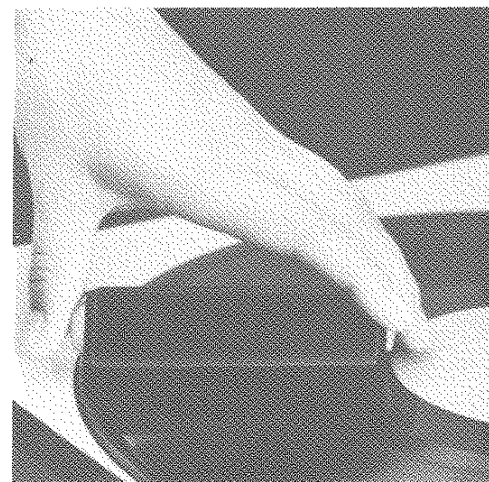
Matches records with large centre holes and is pressed down automatically for normal records.

### 17-cm record

Automatic lowering of the pickup is based on the weight of the record being felt by the centre adaptor. 17-cm records are lifted briefly. The hole in the record



should therefore be cleaned of paper from the label so that the record can slide down by its own weight.



### Wiping of record

Pressing TURN will cause the turntable to rotate without the pickup being moved in.

You may use a record cleaner of the type which leaves a damp film of pure water.

It is unnecessary to use an underlay such as carbon discs for static discharge because the turntable in itself provides good metallic contact with all records.

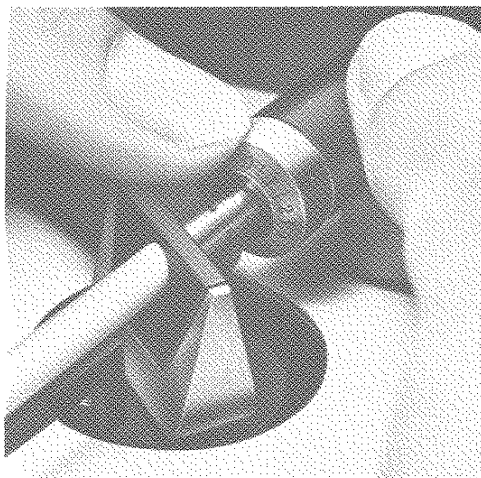
### Checking adjustment of the counterweight

A check of the counterweight is carried out as follows:

Read the stylus pressure on two dials: on the pickup arm itself, graduations in whole grams are given while graduations of 1/10 gram are presented on the counterweight – when digits face upward.

First check whether balance is attainable.

Remove the stylus guard and rotate the counterweight so that »0« appears on both dials. The



If the rotatable dial does not show »0«, hold the black portion of the counterweight with your right hand and at the same time turn the dial – with your left hand until »0« points upward.

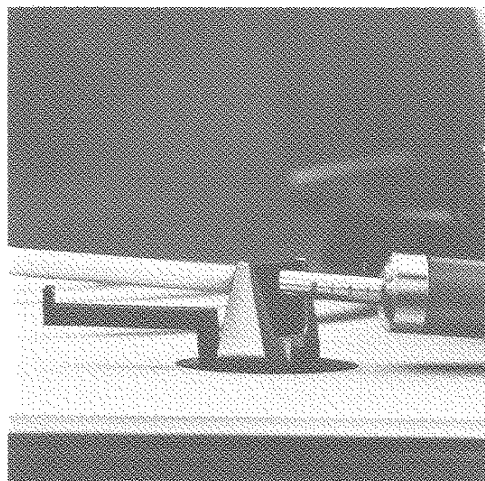
Now rotate the counterweight – by grasping the black portion – to the recommended stylus pressure.

### Cleaning of the stylus

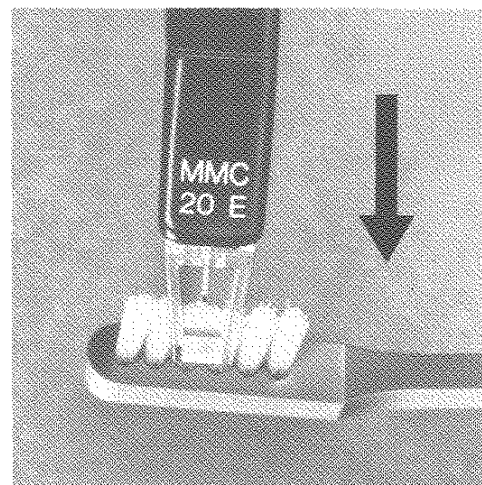
If the sound is distorted it may be due to dust on the stylus. Use the enclosed cleaning brush and brush only in the direction of the arrow in order not to damage the thin cantilever.

#### Warning:

**Be aware of chemical detergents for records and styli. They may contain solvents which damage parts of the pickup unit.**



pickup arm should now »float« with respect to the black suspension fork.



**Teak and Rosewood.** If the wood surface seem grey and dry you may apply a thin film of teak or rosewood oil, through not more than once or twice a year.

**Blond Oak.** The removal of dark spots requires acetone. Do not use oil under any circumstances - even non-oil detergent or non-oil wax can cause discoloration of the surface.

Should more extensive treatment or repairs become necessary you should leave them to your dealer.

### Metal Surfaces

The chassis deck and turntable can usually be kept clean with a dry cloth.

**Be careful not to damage the stylus. Put the stylus guard in place before wiping the metal surfaces clean of dust, and before moving or transporting your record player.**

Any grease stains on the metal surfaces can be removed with a soft moistened in a cold or lukewarm solution of detergent in water.

Thereafter wipe thoroughly with a dry cloth.

### Dust Cover

Ajax Window Cleaner is recommended for cleaning the transparent dust cover.

**Do not use oil as it may dissolve the material**

