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STONE ARM AS 212 Mk II

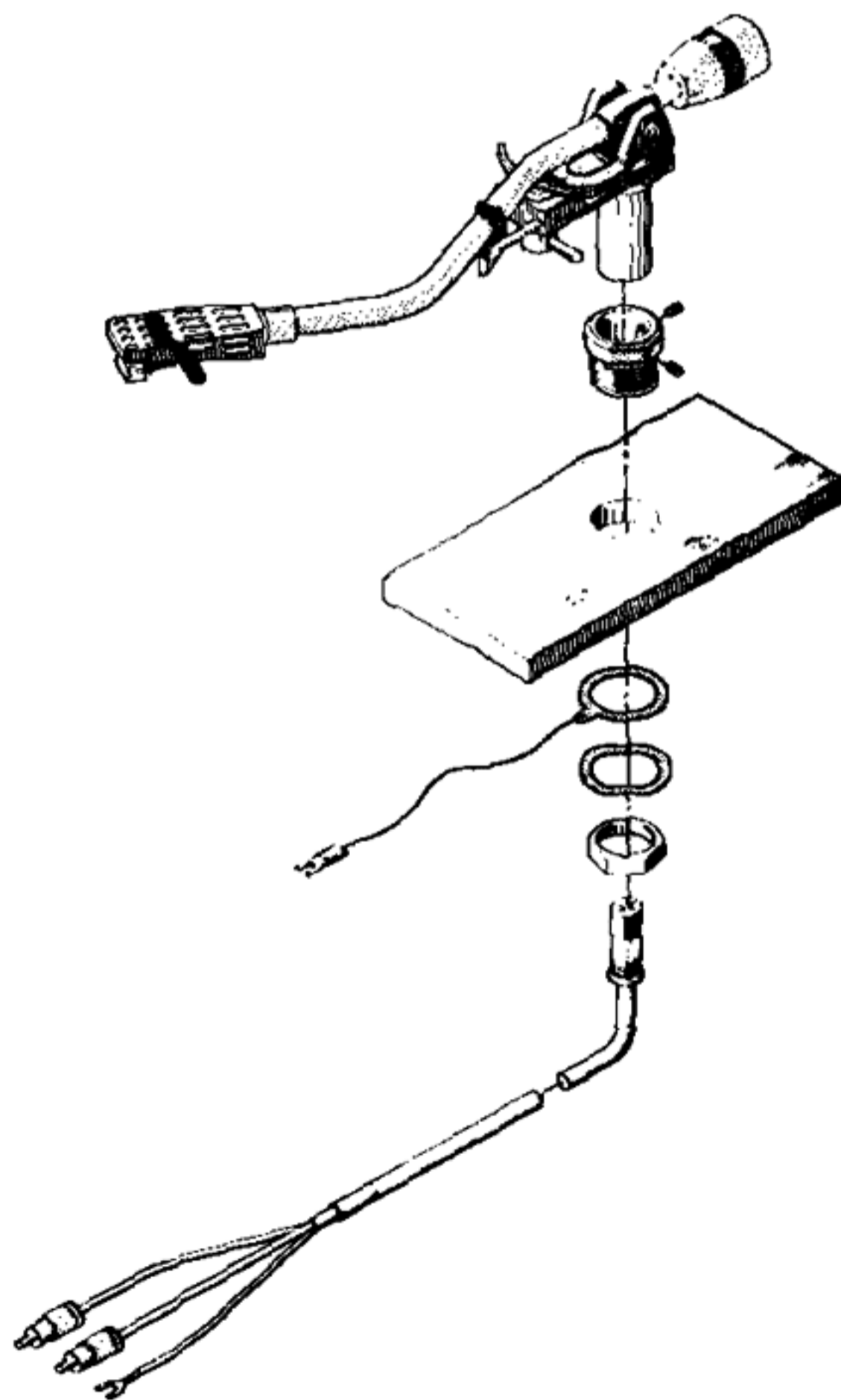
Congratulations with your new ORTOFON tone arm AS 212 Mk II.

This tone arm represents the highest degree of precision in the field of tone arms.

In the design and construction of the AS 212 Mk II the aim was to make a tone arm, easy to operate, and with the highest degree of quality, by selecting only the best materials for the parts involved.

The AS 212 Mk II will match all kinds of turntables and cartridges well, and will guarantee you a perfect operation for many years.

On the following pages we will explain how to mount the arm onto your turntable.



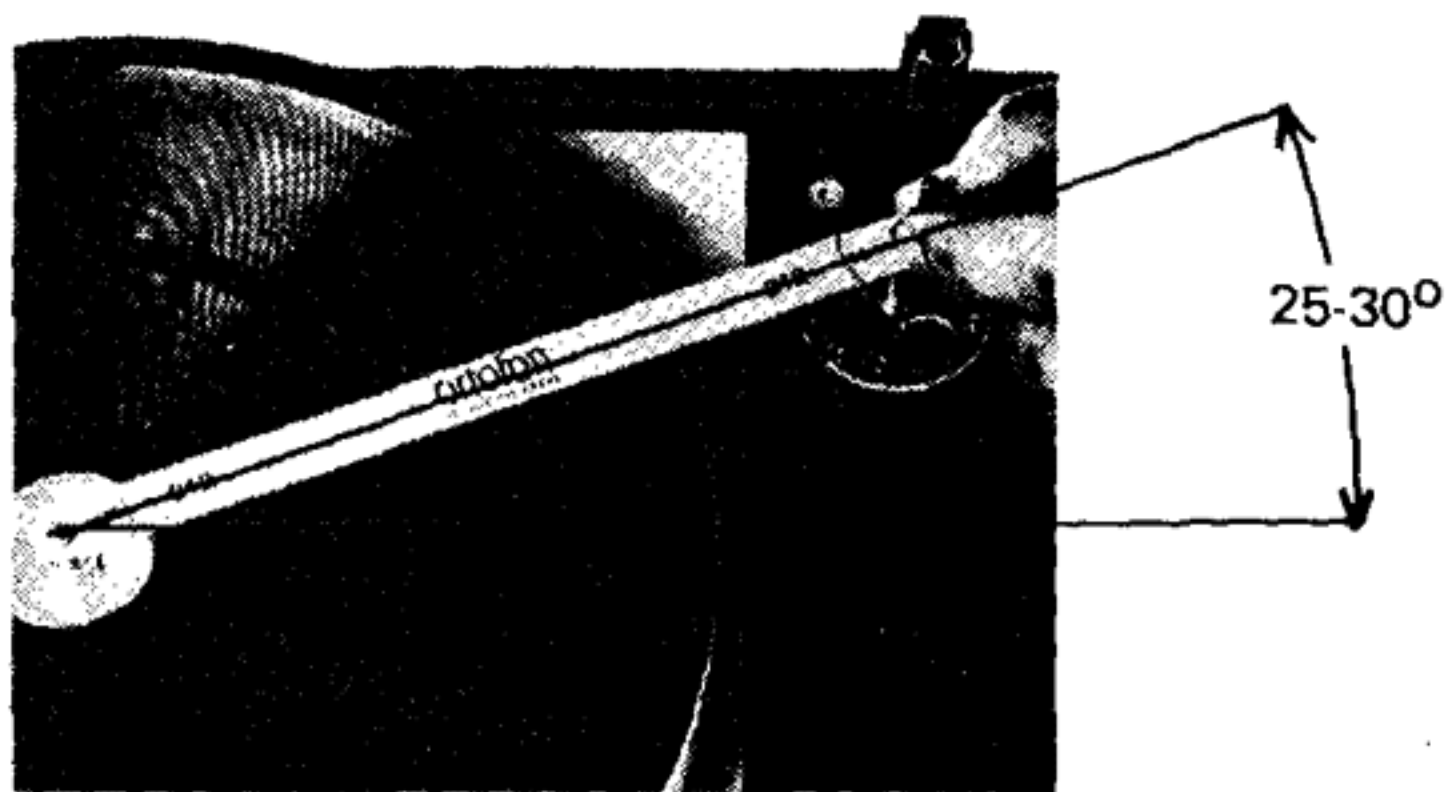
MOUNTING THE ORTOFON TONE ARM AS 212 Mk II

For mounting your new Ortofon tone arm use the ruler, base-template and nail — all included in the package.

Place the ruler on your turntable slipping one hole on to the spindle and the other on to the template in order to ensure correct distance between turntable centre and arm base.

Move the template to a convenient place on the mounting board so that the arm, when placed in its rest-position will be well outside a 12" record placed on the turntable. Preferably the line between turntable centre and arm base centre, should form an angle of 25–30° with a line through the turntable centre parallel to the front edge of the chassis.

Put the nail into the centre hole of the template and give it a tap with a hammer so that the centre of the base is clearly marked. The tools may now be removed.



FIXING THE TONE ARM

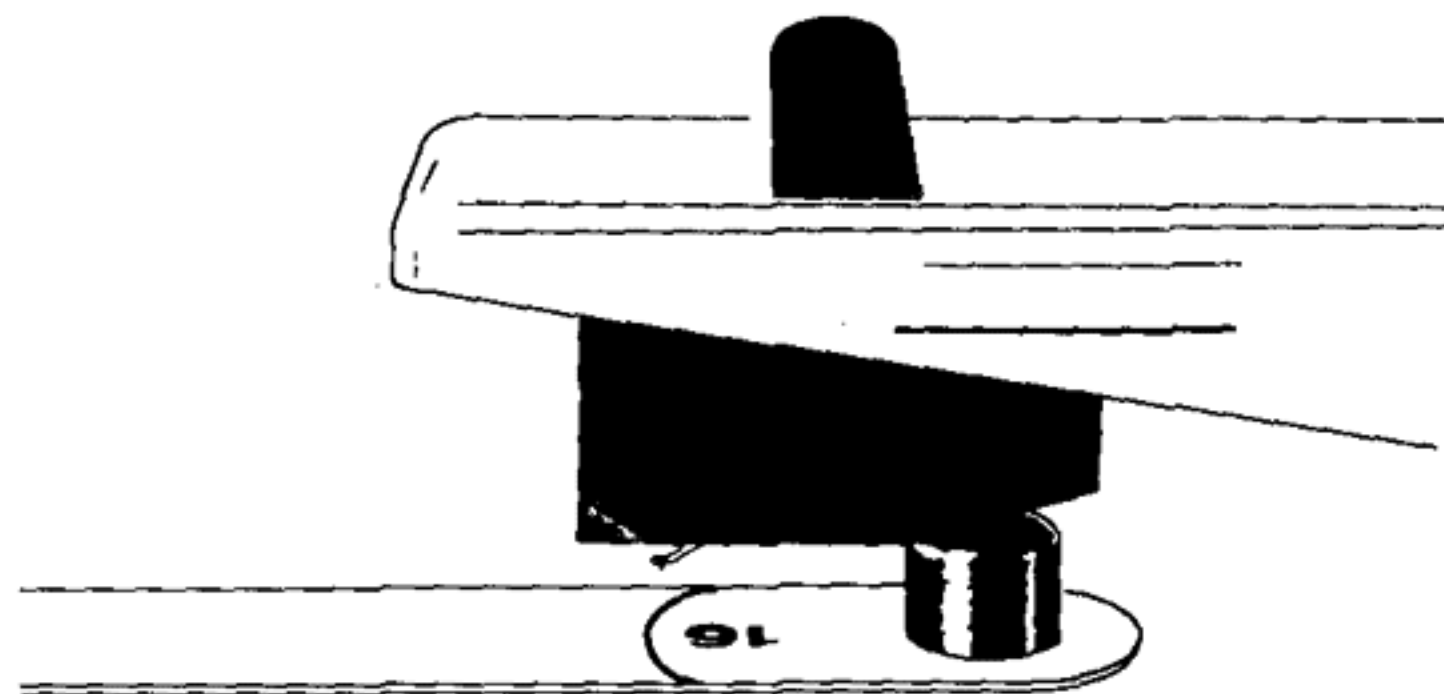
Drill a hole for the arm base (diameter 26,5 mm). Put the arm base into the hole and turn it to make the set screws accessible. Fasten the base by means of the two washers and nut supplied. Connect the short "ground" lead attached to one of the washers to the record player chassis.

Place the arm pillar in the base and fasten it, keeping the oblong holder of the cueing device parallel to the edge of the mounting board.

MOUNTING THE CARTRIDGE

For installing the cartridge into the headshell go through the following steps:

1. Remove the stylus assembly from the cartridge body (if possible).
2. Connect the short leads in the headshell to the corresponding terminals on the cartridge body. The colour codes are the following:
white: left
blue: left ground
red: right
green: right ground
It may be advisable to twist the leads channel-wise before they are connected.
3. Put the fingerlift in the headshell from top side, and the cartridge body from under side, and tighten in loosely with the special nuts and screwdriver supplied.
4. Reinstall the stylus assembly and insert the headshell into the open end of the tone arm and tighten it with a turn of the knurled ring.
5. For adjusting the overhang, place one end of the ruler (used for tone arm-installation) on the turntable centre and move the tone arm, so that the cartridge is placed above the turntable centre. By pushing the cartridge forth or back, adjust it to a position where the stylus tip is just above the line on the ruler marked 16, and fix the cartridge in that position.



ADJUSTMENT OF THE TONE ARM

For adjusting the height of the tone arm set the cueing device in its lower position and set the counterweight so that the tone arm is resting on the cueing device. Set the antiskating in the minimum position (marked—). Now loosen the set screws in the base and adjust the height of the pillar until the stylus tip is about half the thickness of a record over the turntable. The stylus will now be in a position to play a record, but will not reach the surface of the turntable if the tone arm is lowered by mistake.

ADJUSTMENT OF THE TRACKING FORCE

By holding the rear end of the counterweight it is possible to turn the scale relatively to the counterweight. Thus the scale can be set to show correct stylus pressure with different weights of cartridges.

To ensure correct reading of the scale:

1. Put the pick-up headshell into the arm.
2. Set counterweight to give complete balance.
3. Hold the counterweight with one hand and turn the scale to zero (red line) with the other.

When turning the complete counterweight towards the base, the scale will now show the exact tracking force. One revolution of the counterweight corresponds to 20 mN (2 grams), which means that each division corresponds to 2,5 mN (0,25 grams).

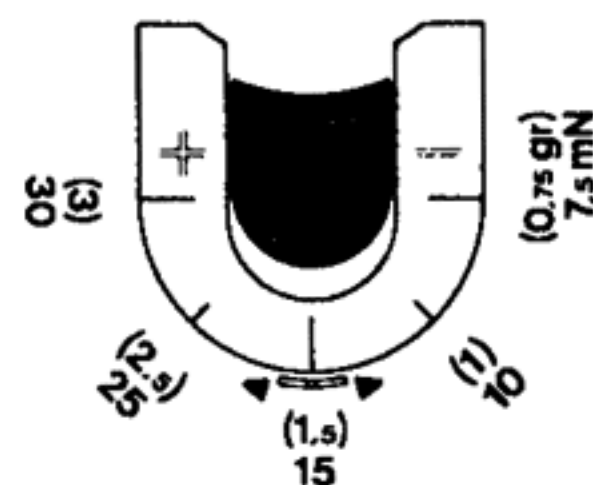
The stylus pressure should normally be set to the value recommended by the manufacturer of the pick-up cartridge.

ADJUSTMENT OF THE ANTISKATING FORCE

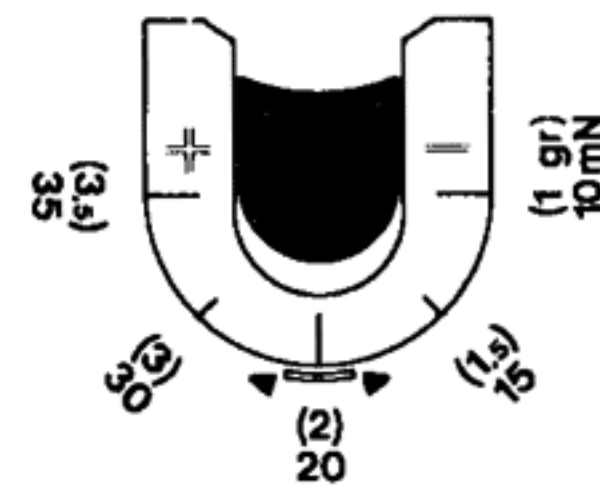
The antiskating force can be adjusted by means of a lever which can be moved from side to side in a half circle.

The setting should normally be adjusted to the same value as the tracking force. Please note, that the actual setting depends on the type of stylus tip in use.

The sketches show the scales for different types of stylus tips.



ELLIPTICAL STYLUS



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CONNECTION TO THE AMPLIFIER

The AS 212 Mk II is supplied with a standard audio cable, one end of which will fit into the plug in the bottom of the arm pillar, and the other end into the amplifier input sockets, or into the sockets of a step up transformer in case of using moving coil cartridges.

This cable includes a "ground" lead, the end of which should be connected to the ground terminal on the amplifier.

For CD-4 applications with magnetic cartridges, special low capacity cable is recommended.

This cable is not included but can be supplied through your local ORTOFON dealer.

WARRANTY

Your Ortofon AS 212 Mk II is warranted to be free from electrical and mechanical defects for a period of one year after purchase. However, this warranty does not apply for defects caused by forcible abuse of the tone arm. In the event of returning the tone arm to your Ortofon dealer for testing or repair, make certain that it is packed so that it cannot be damaged in transit. (A situation for which Ortofon cannot assume responsibility). Include a description of the problem or fault for which it is returned.

TECHNICAL DATA

Total length	295 mm
Effective length (centre of arm base to stylus tip)	228 mm
Distance between centre of arm base and centre of turntable	212 mm
Optimum overhang	16 mm
Off-set angle	22.7°
Maximum tracking error	0.16°/cm
Effective mass (excl. cartridge) (Depen- ding on position of counterweight)	12-18 g.
Pivot friction (measured at stylus tip)	
Horizontal (max)	0.2 mN (20 mg.)
Vertical (max)	0.1 mN (10 mg.)
Adjustable tracking force	
Weight of cartridge 3 g:	0-20 mN (0-2 g.)
Weight of cartridge 8 g:	5-60 mN (0.5-6 g.)
Range of adjustable height (centre of arm tube to mounting plate)	32-55 mm
Diameter of arm base	26.5 mm
Total weight	365 g.

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16

212

Ortofon
accuracy in sound

212

16