

**NAD** 5025 SEMI-AUTOMATIC TURNTABLE  
INSTRUCTIONS FOR INSTALLATION  
AND OPERATION

**5025 TOURNE-DISQUE SEMI-AUTOMATIQUE  
MANUEL D'INSTALLATION ET D'UTILISATION**

**5025 HALBAUTOMATISCHER PLATTENSPIELER  
BEDIENUNGSANLEITUNG**



## 5025 Auto Return Turntable

### **Safety instructions**

Every precaution has been taken for your safety during the design and manufacture of this turntable. However, for your complete protection it is essential that all warnings on the turntable and in this manual are adhered to, and that all instructions in it are followed. Read the safety and operating instructions in this manual carefully before using the turntable and keep it safely for future reference.

#### **Water and moisture**

The turntable should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

#### **Heat**

The turntable should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including some amplifiers) that produce considerable heat.

#### **Power sources**

The turntable should be connected to a power supply only of the type marked on the turntable, near the power supply cord exit at the rear of the turntable.

#### **Power cord protection**

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, and the point where they exit from the turntable.

#### **Cleaning**

The turntable should be cleaned only as recommended in Section 9 (Routine maintenance).

#### **Non-use periods**

The power cord of the turntable should be unplugged from the outlet when left unused for a long period of time.

#### **Object and liquid entry**

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

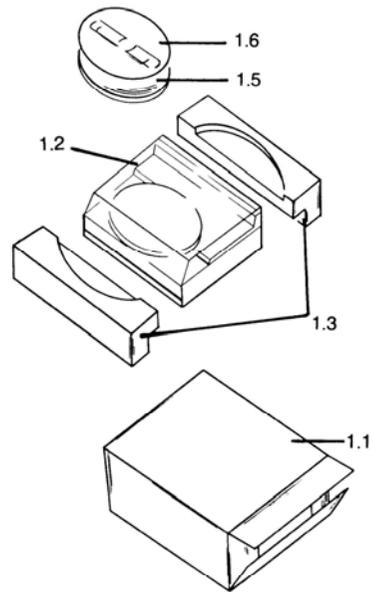
#### **Damage requiring service**

The turntable should be serviced by qualified service personnel when:

- a The power supply cord or the plug has been damaged; or
- b Objects have fallen, or liquid has been spilled into the turntable; or
- c The turntable has been exposed to rain; or
- d The turntable does not appear to operate normally or exhibits a marked change in performance; or
- e The turntable has been dropped, or the enclosure damaged.

#### **Servicing**

The user should not attempt to service the turntable beyond that described in this manual. All other servicing should be referred to qualified service personnel.



**Fig 1**

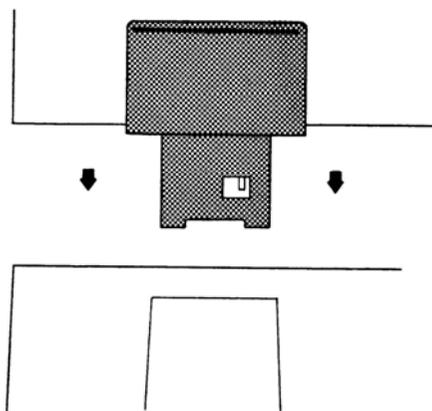
## 1. Unpacking

- 1 After opening the carton (1.1) read any instructions on its top flaps.
- 2 Place one hand under side of the unit base (1.2) and carefully slide the complete assembly out of the carton.
- 3 Remove platter and rubber mat.
- 4 Remove both support mouldings (1.3) from the back and front of the base and take out all accessories packed inside them. See 'Section 2 Accessories'.
- 5 Remove all polythene bags and store packing material for possible future use, out of the reach of children.

## 2. Accessories

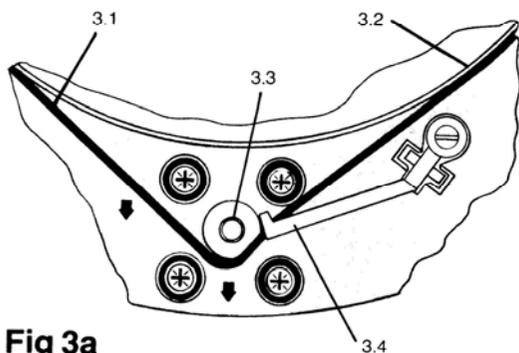
- 1 A tonearm head moulding with finger lift. If a pickup cartridge is not fitted, then the parts needed to fix one will be provided. See Section 4.
- 2 A 45 rev/min single large-hole record adaptor (if provided).
- 3 A tonearm counterbalance weight.

## 3. Setting up

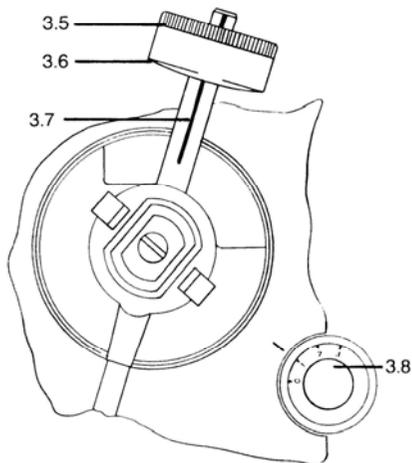


**Fig 2**

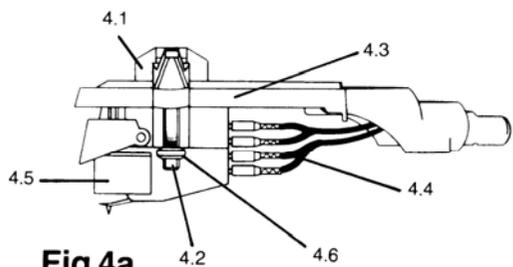
- 1 Locate the platter on the centre spindle.
- 2 The rubber drive belt (3.1) fits around the platter drive hub (3.2) and the motor pulley (3.3). The belt must not be twisted and any colour identification mark on the belt should face outwards. The belt can be fitted by placing speed control in the 45 r.p.m. position, with access through the opening in the platter, locate the belt over the upper 33 r.p.m. pulley, control is then changed to the 33 r.p.m. position and the belt positioned in the fork (3.4). Fit the rubber mat (1.6).
- 3
  - a. If there is a cartridge in the tonearm head moulding already, attach the complete head to the tonearm. To do this, secure the tonearm to its rest, ensure that the locking screw (7.8) is sufficiently retracted, insert the head fully and tighten the locking screw.
  - b. If a cartridge is not fitted, obtain one suitable for your amplifier, then see Section 4 and paragraph 3a above for fitting instructions.
- 4 Fit the counterbalance weight by pressing and rotating it onto the back of the tonearm with its calibrated barrel facing the front of the arm. For ease of assembly hold the arm in over the platter.
- 5 Set stylus tracking force and anti-skate control.
  - a. Turn the bias compensator control (3.8) to minimum position and remove the stylus guard or swing it clear, according to type.
  - b. Release the tonearm and position it over the tonearm rest extension to safeguard the stylus.
  - c. Wind the weight backwards or forwards along the tonearm until it balances with the arm just clear of the rest extension. Secure the tonearm to its rest again.



**Fig 3a**



**Fig 3b**



**Fig 4a**

- d. Hold the body of the balance weight (3.5) still and turn its front barrel (3.6) until the 'Zero' mark is at the line (3.7) on the top of the tonearm. Balance will be upset if the weight is accidentally turned with the barrel.
- e. Turn the weight and barrel together in a counterclockwise direction (seen from the front of the arm) until the figure corresponding to the required stylus force in grammes is at the line (3.7). The barrel is calibrated 0 to 1 gramme in 0.1 steps. If, for example, a tracking force of 2 grammes is required turn the weight and barrel two complete revolutions forward.

- Minimum recommended tracking force with a suitable cartridge is 0.75 grammes.
- Set the stylus force specified by the cartridge manufacturer.
- When a cartridge is fitted, its stylus force range (in grammes) is shown on the identification ticket on the packing carton.

- f. Set the bias compensator as follows:  
The bias compensator control (3.8) has a calibrated scale. Turn the control to correspond with the stylus force already set. For instance, if a cartridge calls for a stylus force of 1 gramme, set the calibration mark on the control to the figure '1' on the scale (as shown).

6 Attach the connecting leads, see Section 5.

7 The dust cover is ready fitted. If it is necessary to remove it open the lid fully then remove from the base. Remove the two small coloured packing pieces at the hinges.

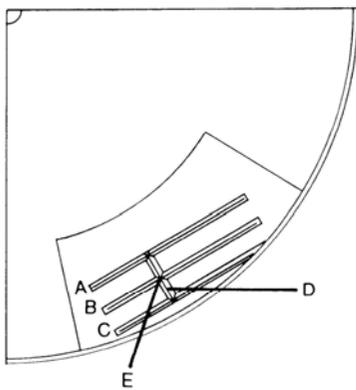
**When locating the player please consider the following:**

- It must be placed on a firm, level support with adequate clearance all round to allow slight movement on the sprung feet. Do not pull connecting leads tight or route them beneath the player.
- To avoid acoustic feedback do not place it on, or too near, speaker enclosure.

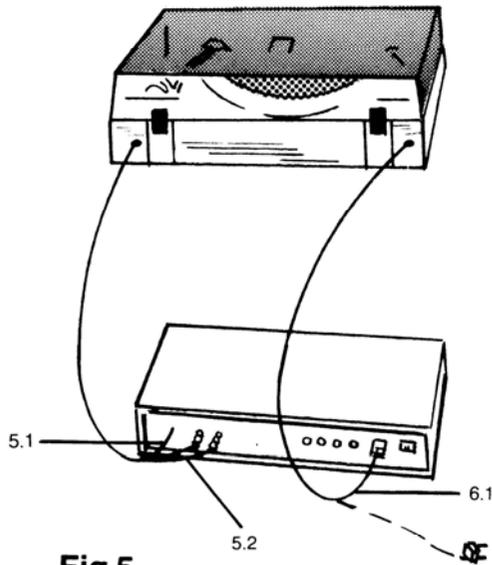
## 4. Fitting the cartridge

Disregard these instructions if a cartridge is already fitted.

- 1 Assemble the pick-up cartridge (4.5) to the tonearm head moulding (4.3) using the screws (4.2), round nuts (4.6) and finger lift moulding (4.1) provided. Or, if preferred, fix the cartridge to the finger lift and slide this assembly onto the head moulding from the front. Make sure that the finger lift can move along the top of the head. See figure 4a. Note: for cartridges slim in their height, it may be necessary to fit the two hole spacer, provided in the kit, between cartridge and finger lift.



**Fig 4b**



**Fig 5**

- 2 Tighten the screws sufficiently to hold the cartridge in place, while allowing the self-aligning finger lift to slide backwards or forwards for adjustment.
- 3 Push the tags on the four coloured connecting leads (4.4) in the head moulding onto the corresponding cartridge output pins, using a pair of tweezers or sharp-nosed pliers with care. Never solder leads directly to these pins.

Connecting leads use the following code:

Red	– Right channel signal	White	– Left channel signal
Green	– Right channel ground	Blue (or Black)	– Left channel ground

- 4 Assemble the head to the tonearm as described in Section 3, paragraph 3a.
- 5 For the best tracking conditions the cartridge stylus tip must be carefully set in relation to the tonearm and the record spindle. To check the cartridge position, turn the platter mat upside down and refit it. Support the tonearm just clear of the mat, using the 'Cue' control, and rotate the platter until the guide lines A, B and C are parallel with the head. When fully lowered, the stylus tip should not land at the point E where the guide lines B and D cross. See figure 4b. If it does not, make a final adjustment by moving the finger lift backwards or forwards until all the following conditions are met:
  - a. The stylus tip sits centrally at point E.
  - b. The cartridge is parallel with the sides of the head.
  - c. The head is parallel with guide lines A, B and C.
- 6 Secure the tonearm to its rest and tighten the cartridge fixing screws firmly, but not excessively. Do not tighten these screws with head moulding fitted to tone arm. Turn mat over.

## 5. Audio connecting leads

Audio

The audio connecting lead is terminated at two phono plugs. If the amplifier pickup (phono) input socket does not correspond to the plugs provided, please consult your dealer who will be able to recommend a suitable adaptor. Figure 5 shows the connecting panel at the back of an imaginary amplifier for illustration purposes only. If the amplifier has RCA type phone sockets:

- 1 Attach the phono plugs on the audio connecting leads (5.2) to these. Connect the red or brown plug to the right channel input and the white or grey plug to the left channel input.
- 2 Secure the bared end of the signal ground lead (5.1) to the ground terminal on the amplifier.

## 6. Power supply lead

Check that power supply voltage and frequency meet the requirements printed on the label at the back of the record player. Connect the plug on the mains lead (6.1) to an accessory outlet socket (preferably switched) on the amplifier or to any normal household ac mains outlet socket.

**Important (U.K.models)**

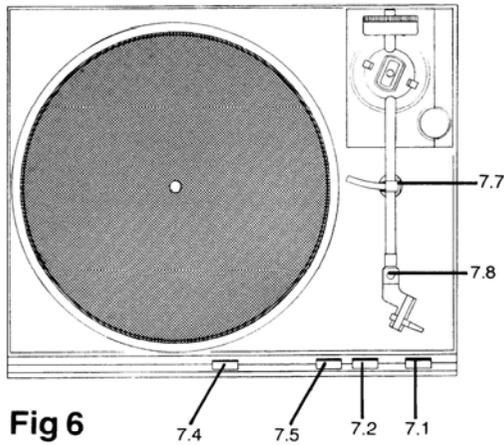
The wires in the mains lead are coloured in accordance with the following code:

Blue – Neutral	Brown – Live
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As the colours of the wires in the mains lead of this apparatus may not correspond to the colours identifying the terminals in your power supply plug, proceed as follows:

The blue wire must be connected to the terminal in the plug marked 'N' or coloured black. The brown wire must be connected to the terminal in the plug marked 'L' or coloured red.

Dual voltage models. Before connection, check that the sliding voltage selector shows the nominal power supply voltage – 115 or 230V. This is seen through a hole in the platter.



**Fig 6**

## 7. Operation

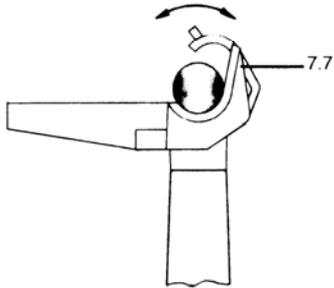
Check that the stylus guard has been removed or swung clear.

### Manual Play

- Set the 'speed' selector (7.4) to 33 or 45 rpm.
- Move 'mode' control to 'start' (7.2).
- Slide the 'cue' control (7.1) to 'lift' and move the tonearm to the required position over the record using the finger lift on the tonearm head. Move the 'cue' control to 'lower' to play.

### Auto Return

- At the end of the record, the tonearm will be automatically lifted and returned to its rest.
- For auto switch off and arm return while playing a record press the 'auto return' button (7.5).



**Fig 7**

To pause - use the cue control lift/lower

After play - secure the tonearm to its rest by means of the safety clip (7.7) and remove the record. If no more records are to be played it is preferable to protect the stylus and close the dust cover.

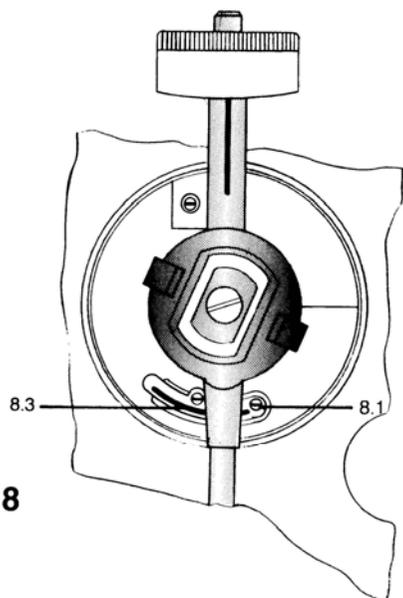


Fig 8

## 8. Service adjustment

Direction of rotation is described when looking at the head of the adjusting screw.

**Tonearm Lifting Height**

After playing a record the arm will lift and return to the rest position.

If adjustment is needed:

1. Switch the power off as the arm is returning to the rest, before the arm starts to lower to the rest. (Cue control in down position.)
2. To adjust turn the lifting height screw (8.3) counterclockwise to raise. If the height is being reduced ensure that the arm clears the edge of the arm rest.
3. Switch on and complete the auto return cycle.
4. The manual cue height may be adjusted with screw (8.1), clockwise to raise. Ensure that the auto cycle is completed before making the adjustment.

## 9. Routine maintenance

Careful design has reduced the need for maintenance to a minimum but attention to the following points will prolong trouble-free listening.

### The pickup cartridge stylus.

If the stylus tip gathers dust, sound quality will suffer. Stroke the dust away gently with an artist's camel-hair brush, working only from the back of the stylus towards the front to avoid bending it. Do not use solvent without the cartridge maker's approval. Have the stylus tip examined under a dealer's microscope periodically for signs of wear. A worn or chipped tip damages records permanently.

### The platter mat.

Remove the mat from time to time and clean it with a soft brush or a slightly moist cloth.

### The dust cover.

Wipe this cover with a slightly moist cloth to remove dust and finger marks.

## 10. Selected spare parts

Part	Part number
Tonearm counterbalance weight	82435/001
Tonearm head	81822/002
Tonearm head finger lift moulding	81822/001
Tonearm head locking screw	81822/007
Platter mat	82605/001
Platter drive belt	81922/001
Dust cover	82439/001
Dust cover rest pad	81936/001
Dust cover hinges	82108/003
Large hole record adaptor	72698/001

## 11. Service hints

Disconnect the unit from the power supply and protect the stylus whenever possible before investigating problems. Numbers in brackets are those of relevant earlier sections.

<b>Fault</b>	<b>Cause and remedy</b>
Unit fails to start	<ol style="list-style-type: none"><li>1 Platter drive belt displaced or broken. Remove the turntable platter and refit or fit new belt (3).</li><li>2 Power supply lead insecurely connected. Push plugs fully into power outlet socket.</li><li>3 Damaged power supply lead or internal fault. Consult dealer.</li><li>4 No output from power source socket (check by connecting other equipment to it). If no power, consult dealer or qualified electrician.</li></ol>
Speed variation	<ol style="list-style-type: none"><li>1 Oil on drive belt. Wipe the drive belt, motor pulley and platter drum with a clean, dry cloth (9).</li><li>2 Recorded 'wow' or 'flutter'. No cure.</li><li>3 Records warped, dished or eccentric. No cure.</li><li>4 Drive belt rubs speed change arm. Consult dealer.</li></ol>
No sound output	<ol style="list-style-type: none"><li>1 Pickup cartridge leads or phono connecting leads insecure or damaged. Check connections, consult dealer.</li><li>2 Faulty cartridge or amplifier. Check by substitution if possible.</li></ol>
Distorted sound	<ol style="list-style-type: none"><li>1 Stylus clogged by dust. Clean it with a soft brush (9).</li><li>2 Check stylus force and bias compensator control settings (3). Reset to cartridge maker's recommended figure.</li><li>3 'Cue' control not moved fully to 'lower' (lifting platform (8.3) must clear the tonearm).</li><li>4 Cartridge insecurely fitted. Check its position and tighten fixing screws (4).</li><li>5 Tonearm head loose. Tighten fixing screw (3).</li><li>6 Worn or damaged stylus. Fit new stylus if needed (9).</li><li>7 Badly warped record. No cure.</li></ol>
Low pitched noise through speakers ('hum', 'rumble' or acoustic feedback)	<ol style="list-style-type: none"><li>1 Connecting leads insecure or damaged. Check connections (5.1, 5.2), consult dealer.</li><li>2 Try effect of removing and reversing power supply plug in socket (5). Not applicable to UK models.</li><li>3 Player placed too near to speakers. Move it further away.</li><li>4 Recorded 'noise'. No cure.</li></ol>