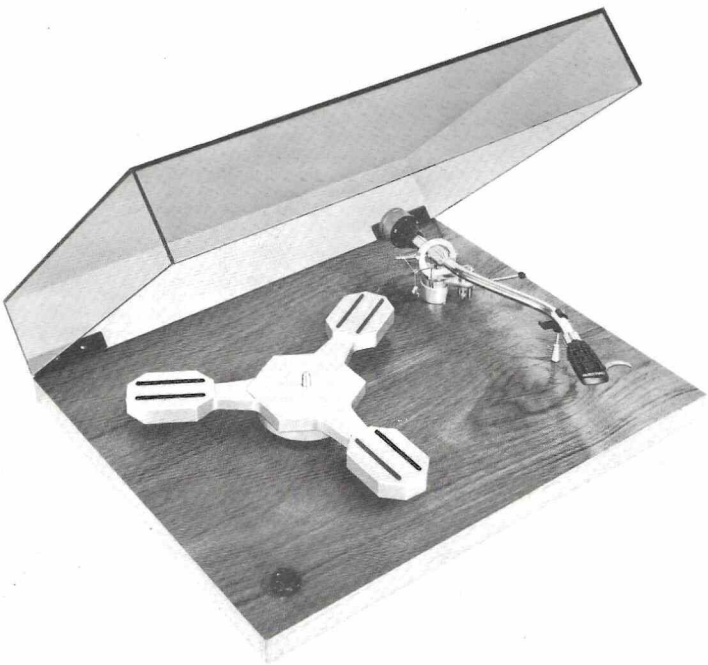


The ingenious **AMSTRAD**  
TP12D  
**TURNTABLE**



*Made in England by*  
A.M.S. TRADING (AMSTRAD) LTD.  
89 RIDLEY ROAD, DALSTON, LONDON E8 2NH

# AMSTRAD



## TURNTABLE

### **Introducing The Amstrad TP12D Turntable**

Your TP12D turntable has been precision made using the latest available production techniques. It has been thoroughly tested in our factory, and the separate parts have been dismantled for transporting safely to your home. Before unpacking your turntable, read carefully the section which tells you how to re-assemble the various parts. If carefully used, your Amstrad turntable will give you years of trouble free pleasure in your home, complementing even the most expensive High Fidelity systems.

### **Unpacking your Turntable**

Inside the carton containing your Amstrad turntable you will find the following :-

Aluminium Die-Cast platter.

Wooden base complete with motor and pickup arm.

Accessories consisting of Bias correction weight, Headshell weight, Drive belt and Feet isolation pads.

Dust cover.

Guarantee card.

Unpack all these parts carefully, and keep all the packing in case you need to transport your deck in the future.

### **Installation**


Stand the wooden base in the position where it will be used, and remove any packing around the pickup arm. Plug the 5 pin DIN pickup plug into your amplifier, and connect the black pickup wire to your amplifier chassis earth terminal. Fit a proper mains plug to the deck mains lead. Fused plugs should be fitted with a **2 amp** fuse. The 13 amp fuse supplied in a new plug must **NOT** be used.

### **Important**

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

Blue : Neutral ..... connect this to the plug terminal labelled 'N' or coloured black.

Brown : Live ..... connect this to the plug terminal labelled 'L' or coloured red.

In a 3 pin plug, the earth terminal labelled 'E' or by the symbol  or coloured green or green and yellow, is *not used*.

Plug your TP12D into the mains and turn on the deck motor mains switch at the front left hand side. The small drive pulley projecting through the wooden base should now be rotating. If it is not moving, check that you have wired the mains plug correctly, and check that the drive pulley is central in the hole through the wooden base, and not touching the wood.



Next, carefully peel off the sticky paper cover from the main bearing top (central left area of the baseplate). Inside the bearing will be a loose steel bearing ball, be careful that it is not stuck to the tape cover that you have removed. If it is, remove it from the tape and replace it in the bearing. The bearing has already been oiled in our factory ready for use.

Next take the platter, and hold it upside down with the longest section of the shaft uppermost. Place the rubber drive belt over the large pulley section of the platter, and stretch one side of it between the platter limbs and hook it onto the record spindle on the other side. This will hold the belt tight on the platter pulley while you carefully slide the central shaft into the main bearing in the wooden baseplate.

Next remove the belt from the record spindle and stretch it over the upper drive pulley on the baseplate. During this installation of the belt, ensure that you hold it tight onto the platter pulley, as if it slips onto the central shaft it may pick up oil from the bearing which will cause it to slip in use. If you accidentally get oil on the rubber belt, remove the platter by pulling it upwards out of the bearing, remove the belt, and clean it with a piece of cloth moistened with methylated spirits. Then re-fit the platter and belt as before.

Turn on the motor switch. The platter will now start to revolve, and after a few seconds the speed will stabilize as the belt settles on the pulleys to its normal working position.

Please note that the belt should not be left hooked over the record spindle for long periods, as it could cause deformation of the belt.

### **Fitting the Pickup Cartridge**

First remove the headshell. This is done by rotating the collar behind the headshell 1 turn clockwise when viewed from the front. This releases the headshell from the arm. Next secure your cartridge to the headshell with the screws and nuts provided with the cartridge.

Set the screws to the mid-point of the headshell slots, but do not fully tighten the screws, as the final cartridge position is to be set later. Next, attach the pickup leads to the cartridge output terminals in accordance with its manufacturer's instructions, and the following colour code :-

- Red - right hand channel.
- Green - right hand channel earth.
- White - left hand channel.
- Blue - left hand channel earth.

If the cartridge has three output pins, use the green lead, or the green and blue leads connected together as earth, and insulate and tuck away any unused lead.

# AMSTRAD



## TURNTABLE

**Note:** Do not solder leads directly to the cartridge as heat may cause damage, use the tags supplied.

Exercise care when re-fitting the headshell to the arm, making sure that the arm is securely locked into the pickup rest, as any undue force may cause damage to the precision arm bearings.

### **Stylus Overhang Adjustment**

Cut out the Amstrad Overhang Optimiser on page 7. Carefully make a round hole through the smaller circle (this can be done best by piercing all round with a pin) and slip this over the record spindle. Ensure that the bias compensation weight is not fitted to the arm, remove the cord from the hook if it is. Swing the arm across so the cartridge is directly over the record spindle. The stylus should now be directly over the larger circle on the overhang optimiser, adjust the cartridge position if necessary after first locking the arm back into the pickup rest. When the cartridge position is correct, gently tighten the cartridge retaining screws.

### **Setting the Tracking Weight**

With the cartridge and headshell installed in the arm, but any stylus guard removed, and without the arm bias weight fitted, follow this procedure :-

1. Rotate the counterbalance weight at the rear of arm until the arm balances and just floats about 1 mm above the pickup rest.
2. Holding the silver counterbalance weight so that it cannot rotate, revolve its black ring so that 'O' is uppermost and in line with the black groove along the back section of the pickup arm. Check that the arm is still floating as before, if it is not, you have disturbed the counterbalance weight setting.
3. Rotate both the silver counterbalance weight and the black ring together until the figure stating the weight you wish to use is opposite the black groove.

If you wish to re-set the tracking weight at any time, you must remember to remove the bias weight first.

If the counterbalance weight touches the pivot block before sufficient tracking weight has been achieved, your cartridge is a very light one and the headshell weight plate (supplied with the accessories) should be fitted between the cartridge and the headshell.



## Setting the Bias Compensation Weight

Fit the loop of the bias weight nylon cord over the horizontal bar, setting the loop in one of the three grooves corresponding to the tracking weight that you are using.

- left (outer) groove : 2.5 grammes
- centre groove : 2.0 grammes
- right (inner) groove : 1.5 grammes

For tracking weights different to the three above, use the groove corresponding to the nearest weight.

Lay the cord over the hook as shown in the photograph.

Your Amstrad TP12D is now ready for use.

## Changing Speed

The top section of the drive pulley gives a platter speed of  $33\frac{1}{2}$  R.P.M. and the lower section gives a speed of 45 R.P.M. To change from  $33\frac{1}{2}$  R.P.M. to 45 R.P.M., stop the turntable by switching off and remove the record. Hold the belt each side of the drive pulley using two hands and stretch it to remove it from the upper pulley and place it on the lower pulley instead. Place your record on the platter, switch on the motor, and allow a few revolutions of the platter to allow the speed to stabilize as the belt settles on the pulleys to its normal working position.

## Fitting the Dust Cover

The two flap hinges on the dust cover are a slide fit into the two plastic blocks at the rear of the baseplate. The dust cover may therefore be hinged back  $90^\circ$  against the stops, or it can be removed completely when using your turntable.

## Routine Maintenance

Every four weeks if your turntable is used a lot, or otherwise at longer intervals, this procedure should be followed -

1. Remove the belt from the drive pulley.
2. Remove the platter by holding it between the limbs and lifting carefully upwards.
3. Remove the belt and clean it with a cloth moistened with methylated spirits.
4. Apply **one drop** of oil (clean car engine oil is ideal) to the platter spindle, and insert **one drop** into the top orifice of the main bearing. Do **not** get any dust or dirt on the spindle.
5. Clean all surfaces with turntable anti-static cleaning fluid.
6. Clean the stylus with a stylus brush, brushing carefully from the rear towards the front only.
7. Re-assemble the turntable ensuring the belt does not touch the oiled platter spindle.

# AMSTRAD



## TURNTABLE

### General Hints and Tips

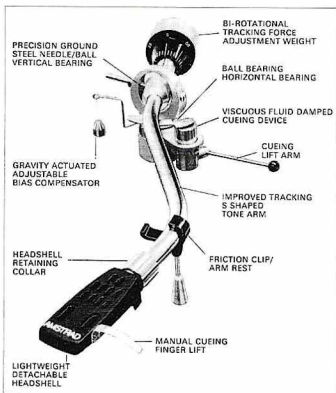
When installing a turntable, it is always best to situate it on a surface that is as rigid as possible, to avoid any vibration from your room disturbing the pickup. Also, the deck should be mounted away from your speakers to avoid sound from the speakers vibrating the turntable and causing acoustic feedback. This manifests itself as a howling noise that builds up in volume and is usually caused when the turntable is mounted on the same surface as the speakers.

To help in difficult situations where acoustic feedback is a problem, your Amstrad TP12D turntable is supplied with foot isolation pads for you to fit yourself if necessary. These are packed with the other accessories. Peel off the backing paper to expose the adhesive face, and stick one pad under each turntable foot.

If you wish at any time to store or transport your turntable with the wooden base vertical, or if you wish to turn the deck over, first remove the platter and bias weight, and clip the pickup arm into the rest. Next tip the base until the steel ball from the main bearing falls into your hand. Store this ball carefully in a clean dry place.

Alternatively, stick a piece of Sellotape across the bearing hole to prevent the ball falling out while you are moving the turntable.

Your turntable may now be turned to any angle without fear of damage.



**AMSTRAD****TURNTABLE****OVERHANG  
OPTIMISER**

Cut around  
dotted line,  
and use  
as explained  
under Stylus  
Overhang Adjustment

**Technical Specification**

*Motor:* 16 Pole Shaded pole, permanent magnet synchronous

*Mains Supply:* 240V 50Hz

*Drive:* Belt

*Speeds:* 33  $\frac{1}{3}$  rpm, 45 rpm

*Speed Change:* Manual

*Wow and Flutter:* Less than 0.1% (WRMS)

*Signal to noise Ratio:* Better than 47dB

*Turntable Platter:* Solid die-cast aluminium

*Platter weight:* 1.65 pounds (0.75 kilo)

*Tone arm:* S shaped low mass

*Effective arm length:* 220 mm

*Offset angle:* 22°

*Bias compensator:* gravity type

*Maximum usable cartridge weight:* 10 gram

*Pickup lead:* fully screened type

*Amplifier connection:* 5 pin DIN plug, left channel pin 3,  
right channel pin 5, earth pin 2

*Headshell:* Detachable, slotted cartridge mounting holes

*Size:* 444 mm x 356 mm x 125 mm

*Weight:* 11 pounds (5 kilos)

**Ancillary Equipment**

**HEADSHELL.** Spare headshells are available from Amstrad.

**AMPLIFIERS AND SPEAKERS.** The TP12D is suitable for use with virtually any amplifier. The Amstrad range of amplifiers, Tuner-Amplifiers and Speakers are particularly recommended.

AMSTRAD



TURNTABLE

### **Servicing**

In the unlikely event that your Amstrad TP12D should need repair, remove the platter, carefully secure the pickup arm to the rest with string, remove the counterbalance weight, and pack all parts carefully in the original packing for return to the Amstrad service department. Unless it needs replacement, do not return the dust cover with the deck.

In keeping with our policy of continually improving our service, and the technical quality of our products, we reserve the right to change component types, manufacturers, sources of supply or technical specification at any time.

DEALER'S STAMP

*Made in England by*

A.M.S. TRADING (AMSTRAD) LTD.  
89 RIDLEY ROAD, DALSTON, LONDON E8 2NH

Telephone : 01-249 5237  
Cables : Amselec London E8  
Telex : 264869