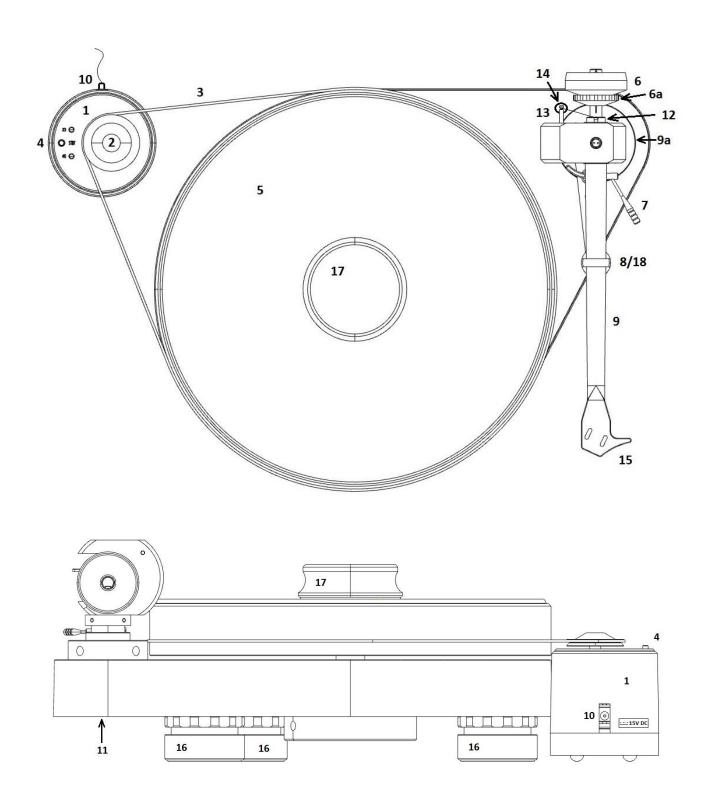


INSTRUCTIONS FOR USE Pro-Ject RPM 9 Carbon



Pro-Ject RPM 9 Carbon

Controls, features and connections

- 1 Separate motor unit (motor and motor base) *
- 2 Drive pulley
- 3 Drive belt *
- 4 Speed control button
- 5 Platter *
- 6 Tonearm counterweight * 6a Downforce scale
- 7 Tonearm lift lever
- 8/18 Tonearm rest and removable transport lock
- 9 Tonearm tube 9a Tonearm base
- 10 Power supply socket
- 11 Phono output through 5-PIN connector
- 12 Anti-skating weight adjustment scale
- 13 Anti-skating weight *
- 14 Anti-skating weight wire support
- 15 Headshell with finger lift
- 16 Height-adjustable, magnet supported feet *
- 17 Record weight

Signal cable Connect IT 5P-E, 123cm (not shown) *

Universal power supply (not shown) *

Single adapter (not shown) *

Spirit level (not shown) *

Template (not shown) *

Dear music lover,

thank you for purchasing a Pro-Ject Audio Systems record player.

In order to achieve maximum performance and reliability, please study these instructions carefully.



Warning of hazard for the user, the unit or possible misuse.



Important notice.

** The following instructions for adjusting the cartridge are provided in case the cartridge is replaced by a different model at a later date.

During assembling and adjustment small parts could be lost if they are not carefully placed in a suitable receptacle. Before starting assembly make yourself acquainted with the parts listed above which are correspondingly numbered in the technical drawings above. Separately packed items are marked with an asterisk *.

Safety instructions

The power supply is used to connect and disconnect the unit from the mains. Make sure that the plug is easily accessible at all times. Hold the plug when unplugging the power cord. Never handle the power cord while your hands are wet or damp.



Avoid letting liquids enter the device. Never place any item containing liquid, like a flower vase, on or near the device. Never spill any liquid on the device. Never place any naked flame sources, like lighted candles, on or near the device. The product shall not be used in damp or wet locations, next to a bathtub, sink, swimming pool or any other similar conditions.

Keep plastic bags away from children to prevent any risk of suffocation.

Set-up

The deck is supplied partially disassembled and carefully packed for a safe transport. Remove all parts from the transport packaging carefully.

Screw the magnetic field feet (16) onto the threaded bolts located on the underside of the plinth. Make sure the surface you wish to use the turntable on is levelled (use the supplied spirit level) before placing the turntable on it.

Put the platter bearing housing carefully over the bearing axle. Put the record weight on the platter and level the plinth using the supplied spirit level and the adjustable feet (16).

For assembling the motor and the motor base, place the motor unit on the left side of the turntable. Position the motor unit with the aid of the supplied template. Fit the drive belt (3) around the platter (5) and the motor pulley (2).

Avoid getting sweat or grease on the belt as these will deteriorate the performance and reduce the belt's lifespan. Use absorbent kitchen paper to remove any oil or grease from the outer edge of the hub and the belt.

Remove the transport lock (18) from the tonearm. Store it in the original packaging so they are available for any future transportation.



We recommend using the record player without a mat on the platter.

Mounting and connecting the cartridge

All cartridges with half inch mounting holes can be mounted. Leave the needle's protection cover on, fit the cartridge to the headshell by using the supplied screws by passing one screw through each slot in the headshell (15). Do not tighten the nuts yet.

Connect the tonearm wires with the cartridge pins as follows:

white left channel positive (L+) red right channel positive (R+) green right channel return (R -) blue left channel return (L -)

The full sound quality of the record player can only be achieved if the cartridge is adjusted correctly. Particular tools like the Pro-Ject Audio Systems alignment tool are required to accomplish this job properly. If you are not well acquainted with the adjustment of cartridges, please call for the willing help of your Pro-Ject Audio Systems dealer.



Please note: adjusting a cartridge and tonearm calls for the greatest care in order to avoid damaging the cartridge or tonearm bearings. Ask your local dealer for help if you are unsure in any of the necessary steps and precautions which must be taken.

Cartridge downforce adjustment

The supplied counterweights (6) are suitable for cartridges weighing between 5 - 7,5g (counterweight no. **28**), 7 - 10g (counterweight no. **46**), 9 - 11g (counterweight no. **43**) or 10 - 14g (counterweight no. **29**). Adjust the downforce before installing the anti-skating weight.

Following adjustments have to be done very carefully Remove cartridge protection cap. Push and turn the counterweight (6) carefully on the rear end of the tonearm tube (9), so that the downforce scale (6a) shows towards the front of the player. Lower the armlift and position the cartridge in the space between arm rest and platter. Rotate the counterweight (6) until the arm tube is balanced. The arm should return to the balanced position if it is moved up or down.

Once the arm is balanced correctly return it to the rest. Hold the counterweight (6) without moving it and gently revolve the downforce scale ring (6a) until the zero is in line with the anti-skating stub (12). Check whether the arm still balances out.

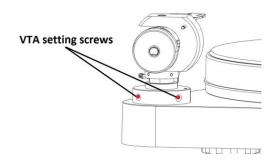
Rotate the counterweight counter clockwise (seen from the front) to adjust the downforce according to the cartridge manufacturer's recommendations. One mark on the scale represents 1 mN (= 0.1g / 0.1 Pond) of downforce.

Adjusting the vertical tracking angle (vta)

Put a record and the record weight on the platter. When the needle is lowered into the record groove and the tonearm is not resting on the lift arm, the tube of the tonearm should be parallel to the surface of the record.

If it is not, loosen both hexagon screws in the tonearm base just enough to allow vertical movement of the arm pillar without force and slide the arm up or down until it is parallel.

Retighten the hexagon screws without applying excessive force (which would deform the arm pillar) – finger tight is quite sufficient.

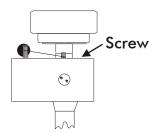


Adjusting the azimuth

The cartridge needle must be vertical in the record groove in order to trace the groove wall modulations correctly.

A small screw at the bearing end of the arm allows incorrect azimuth to be corrected

Slacken off the screw just enough to be able to revolve the arm tube without applying force. Note! Do not remove this screw completely!



With the aid of a good magnifying glass adjust the needle until it is vertical in the groove (i.e. perpendicular to the record's surface). Ideally this should correspond to the top surface of the cartridge body being parallel to the record surface.

When the needle is vertical, retighten the screw carefully.



Under no circumstances should the arm tube be adjusted with the needle still in the record groove! Irreparable damage may be caused to the cantilever suspension! The arm must be lifted to make each adjustment and lowered afterwards to check it.

Anti-skating force adjustment

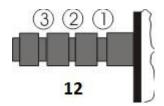
The anti-skating force must be adjusted corresponding to the downforce as follows:

Downforce Groove in the stub (15)

10 - 14mN 1st from bearing rings

15 - 19mN 2nd " " "

20mN and bigger 3rd " " "



Hang the loop of the thread of the anti-skating weight into the groove of the anti-skating stub (12) corresponding to the downforce applied to your cartridge and hang the thread into the groove of the wire support (14).

Connection to the amplifier

The record player uses an output through a 5 PIN connector (11). Use supplied **Pro-Ject Connect IT 5P-CC** cable to connect the turntable to the amplifier.

Use the Phono input (sometimes labelled gram, disc or RIAA) on your amplifier. Make sure that the phono input offers correct matching and amplification for the type of cartridge used. Line inputs (like CD, Tuner, Tape or Video) are not suitable.

Take care about connecting the left and right channel correctly. The right channel is usually marked red, the left channel black or white. Check the manual of your amplifier for relevant information. An earthing wire may be connected to the screw terminal between the sockets if you encounter humming problems.

If your amplifier does not have an input suitable for phono cartridges, a separate phono amplifier stage for MM or MC cartridges is required. It has to be connected between record player and a free line level input of the amplifier.

For detailed product information regarding Pro-Ject Audio Systems interconnect cables and phono amplifiers please visit our website: www.project-audio.com

Mains power connection

A universal power supply with 3 exchangeable sockets adapters suitable for all countries is supplied. Select the correct adapter for your country and insert the adapter to the exchangeable part of the power supply.

Connect the low voltage plug from the power supply to the socket (10) on the rear side of the record player before connecting the power supply to the mains.

Switching on and off

Pressing the speed control button (4) alternately starts and stops the motor.

Changing replay speed

Press the speed control button **STBY (4)** for starting the turntable. To change the speed from 33 r.p.m. to 45 r.p.m., press the STBY (4) button again. Speed is correct, when the LED diode stops blinking. To switch the turntable into STAND BY mode, hold the button STBY (4) for 3 seconds.

Mounting the optional lid (separately available)

Place the lid carefully over the record player from above.



For detailed product information please refer to the Pro-Ject web site www.project-audio.com.

Maintenance and cleaning

Your record player requires little or no regular maintenance. Remove dust with a slightly moistened antistatic cloth. Never use a dry cloth because this will create static electricity which attracts even more dust! Antistatic cleaning fluids are available at specialized stores but must be applied sparingly to avoid damage to rubber parts. It is recommended to fit the needle cover before cleaning or maintenance to avoid damage.

If the player is not used over a long period of time, the drive belt should be removed to prevent unequal stretching.



Always disconnect the record player from the mains power supply as a precaution before maintenance!

Useful tips

The lid (optional) is not only a dust cover but also a resonant structure likely to be excited by and to pass into the plinth the acoustic energy emanating from your loudspeakers during replay. Therefore it is recommended to remove the lid for achieving a better sound quality.

The record player should be positioned on a low-resonance surface such as wood or multiple layer ply board to avoid structural vibrations disturbing replay.

Technical specifications PRO-JECT RPM 9 Carbon / Pro-Ject 9cc Evolution

 $\begin{array}{lll} \mbox{Nominal speeds} & 33/45 \ \mbox{r.p.m.} \\ \mbox{Speed variance} & \pm 0,1 \ \% \\ \mbox{Wow and flutter} & \pm 0,06 \ \% \\ \mbox{Signal to noise} & 73 \mbox{dB} \\ \mbox{Effective tonearm mass} & 8g \end{array}$

Effective tonearm length 9 " (230mm)
Overhang 18mm

Power consumption 12W max / <0,3W stanby

Outboard power supply 15V DC / 1,6A AC, 90-264V AC, 47 – 63Hz

Dimensions (W x H x D) 440 x 170 x 325mm

Weight 16,5kg

Potential incorrect use and fault conditions

Pro-Ject Audio Systems turntables are manufactured to the highest standards and undergo strict quality controls before leaving the factory. Faults that may possibly occur are not necessarily due to material or production faults but can sometimes be caused by incorrect use or unfortunate circumstances. Therefore the following list of common fault symptoms is included.

The platter does not turn although the unit is switched on:

- The unit is not connected to the mains power supply.
- No mains at the socket.
- Drive belt is not fitted or has slipped off.

No signal through one or other channel or both channels:

- No signal contact from the cartridge to the internal tonearm wiring or from that to the arm lead or
 from that to the phono box or between that and the amplifier. This could be due to a faulty plug,
 broken wire or solder joint or simply loose plug/socket connection.
- Phono input not selected at amplifier.
- Amplifier not switched on.
- Amplifier or speakers defective or muted.
- No connection to the loudspeakers.

Strong hum on phono input:

• No earth connection from cartridge or arm or arm cable to amplifier, or earth loop.

Distorted or inconsistent sound from one or both channels:

- Record player is connected to wrong input of amplifier, or MM/MC switch incorrectly set.
- Needle or cantilever damaged.
- Wrong r.p.m., drive belt overstretched or dirty, platter bearing without oil, dirty or damaged.

Service

Should you encounter a problem which you are not able to alleviate or identify despite the above information, please contact your dealer for further advice. Only if the problem cannot be solved there the unit should be sent to the responsible distributor in your country.

Guarantee repairs will be accepted only if the unit is returned correctly packed in the original package. Therefore we strongly recommend keeping the original packaging.

Never return a record player without making sure that it is safely disassembled and correctly packed in the original packaging according to the diagrams on the last page of this user guide. Please remove the following parts from the turntable and pack them separately: power supply socket (10), counterweight (6), anti-skating weight (16) platter (5) and belt (3). Mount the cartridge protection cap. Insert the transport lock for the tonearm (18).

Warranty



The manufacturer accepts no responsibility for damage caused by not adhering to these instructions for use and/or by transportation without the original packaging. Modification or change to any part of the product by unauthorized persons releases the manufacturer from any liability over and above the lawful rights of the customer.

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The information was correct at the time of going to press. The manufacturer reserves the right to make changes to the technical specification without prior notice as deemed necessary to uphold the ongoing process of technical development.

