The Vinyl Source rewiring kit for Rega tonearms.

Thank you for purchasing our kit. Please follow these instructions carefully for install our kit.

Tools you need:

- 1.5 mm Allen key
- o 2 mm Allen key
- Solder
- Soldering Iron
- o Sharp blade
- Continuity tester or resistance meter
- o Tweezers
- Pliers
- o 2.5 or 3mm drill bit
- Nr 8 hex key

Parts:

- 1 Wiring harness
- o 1.2mm copper rod
- o 4 cartridge pins with shrink tubes
- 1 Rubber grommet
- 400mm draw wire

Instruction for the RB250 (and all the models without VTF dial)

If you have an RB300/600/900 or any other model with the VTF dial goto to the next section.

- 1) Remove the rear stub.
- Use a pair of pliers or mole grips to remove the real end stub. Use particular attention if you have the plastic rear stub because a jerking movement or too much force can damage the stub. Use a gentle movement without applying too much force.
- Remove the ground clip and wire from the end section of the arm. This is no more required since a new internal ground will be grounded through the headshell.
- 2) Remove the internal wiring and rubber grommets.
- Unscrew the 1.5mm Allen screw at the base of the tonearm. Do not remove the screw entirely because can be easily lost.
- Withdraw the plastic plug at the base of the tonearm with a gentle twisting motion. Once the plug is off cut the wires connected on the inside of the tonearm.
- Prise out the rubber stopper at the headshell end, the headshell wires exit from this rubber bung. You can use some sharp object like a thin screwdriver to take the stopper off, do not worry if the stopper and the cables will be damaged.
- At this moment you can remove the internal wires.
- Remove the rubber grommets in the wire duct through the vertical pivot tube in the arm housing, see diagram. You can use a 2.5-3 mm drill bit to drill out the lower grommet slowly. When the drill bit hit the end of the brass shoulder, then gently withdraw it and remove the bits of the rubber grommet.
- Remove now the top rubber grommet, gently poke it up into the arm tube where it can be tipped out.

• Prepare the headshell ground connection, remove the powder coating inside the armature where the cables exit. You can use a blade or abrasive paper until the aluminium show.

3) Install the new wiring

- Tin one end of the 400mm draw wire
- Feed the NOT tinned end of the wire into the tonearm's base. As the wire enters the arm tube, you can see the wire's end through the rear end of the tube. Use a pair of tweezers or a hook to catch the wire and pull it out of the rear end of the arm. Pull out 250mm of wire and then push the wire back into the tube toward the headshell. The draw wire must run under the bearing assembly. The draw wire must run now from the headshell, under the bearing assembly down to the tonearm base and with the tinned end at the bottom of the tonearm.
- Solder the tinned and of the draw wire to the 5 Litz wires of the rewiring kit. Ensure that the soldering is smooth and of diameter not exceeding the total thickness of the 5 wires. This soldering point must easily pass through the small arm's holes.
- Gently pull the draw wire from the headshell end, make sure that the Litz wires are loose and there is no strain in upping all the rewiring kit, lay the kit on a table to avoid that is hanging under the tonearm.
- Once the 5 Litz wires are out of the headshell, desolder the draw wire and free the wires.

To continue to skip the next section (dedicated to the RB300 and similar tonearms) and complete the installation of the rewiring kit.

Instructions for RB300/600/900 or any other model with the VTF dial

- 1) Remove the rear stub.
- Use a pair of pliers or mole grips to remove the real end stub. Use particular attention if you
 have the plastic rear stub because a jerking movement or too much force can damage the
 stub. Use a gentle movement without applying too much force.
- Remove the ground clip and wire from the end section of the arm. This is no more required since a new internal ground will be grounded through the headshell.
- 2) Remove the internal wiring and rubber grommets.
- Unscrew the 1.5mm Allen screw at the base of the tonearm. Do not remove the screw entirely because can be easily lost.
- Withdraw the plastic plug at the base of the tonearm with a gentle twisting motion. Once the plug is off cut the wires connected on the inside of the tonearm.
- Prise out the rubber stopper at the headshell end, the headshell wires exit from this rubber bung. You can use some sharp object like a thin screwdriver to take the stopper off, do not worry if the stopper and the cables will be damaged.
- Set the VTF dial to 3 and use an Nr 8 hex key to remove both of the acorn nuts on both sides of the arm.
- Remove the 2 buttons headed Allen bolts under the VTF knob with the help of a 2mm Allen key. Pull off the cover. The arm is now free, and you can remove the internal wires.
- Remove the rubber grommets in the wire duct through the vertical pivot tube in the arm housing, see diagram. You can use a 2.5-3 mm drill bit to drill out the lower grommet slowly. When the drill bit hit the end of the brass shoulder, then gently withdraw it and remove the bits of the rubber grommet.
- Remove now the top rubber grommet, gently poke it up into the arm tube where it can be tipped out.
- Prepare the headshell ground connection, remove the powder coating inside the armature where the cables exit. You can use a blade or abrasive paper until the aluminium show.

3) Install the new wiring

- Tin one end of the 400mm draw wire
- Feed the NOT tinned end of the wire into the tonearm's base, After the wire has exited from the top of base housing, hold the arm in position so that you can push the wire into the hole underneath the arm, continue to push the draw wire until it emerges from the headshell. The draw wire must run now from the headshell, under the bearing assembly down to the tonearm base and with the tinned end at the bottom of the tonearm.
- Solder the tinned and of the draw wire to the 5 Litz wires of the rewiring kit. Ensure that the soldering is smooth and of diameter not exceeding the total thickness of the 5 wires. This soldering point must easily pass through the small arm's holes.
- Gently pull the draw wire from the headshell end, make sure that the Litz wires are loose and there is no strain in upping all the rewiring kit, lay the kit on a table to avoid that is hanging under the tonearm.
- Once the 5 Litz wires are out of the headshell, desolder the draw wire and free the wires.
- Reposition the arm tube in its original place so that you can thread on the acorn nut on the opposite side of the VTF spring. Tighten this nut with your fingers only and then slightly lock it with the Nr 8 hex key.
- Replace the sling cover along with its two button-headed bolts, tight the 2 bolts applying moderate force. The other acorn nut can be threaded in and fastened using the Nr 8 hex key.

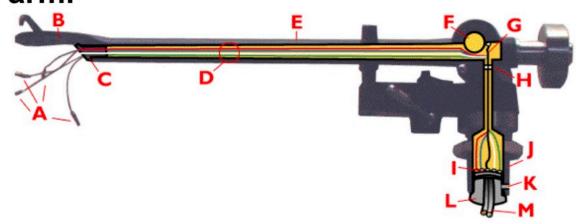
Complete the installation of the wire.

- Gently pull the 5 Litz wires and at the same time drive the copper ring in the rewiring kit into the base of the tonearm. Lock the copper ring with tightening the 1.5mm Allen screw at the bottom of the tonearm.
- The Litz wires are silk covered and are all white, to identify them the end is painted with the following colours:
- · Red, Green, Blue, White (natural silk colour, unpainted), Black
- The Red, Green, Blue and White are the cartridge terminals, the Black is the ground.
- All the wires are already tipped and are around 1.5 inches longer than necessary, you can push the exceeding part of the wire back into the arm tube after soldering the terminals or, you can trim the wires, in this case, is recommended to mark the wires again with the proper colours. Bear in mind that Litz wires need to be pre-tipped before soldering since every strand of the wire is insulated, to pre-tip the wire remove 2-3mm of silk from the wire (just pull the end with your finger, and the silk will peel away) and heat the copper with a soldering iron at 320 350 degrees Celsius with a bit of solder.
- To ensure a good ground connection is necessary to solder the Black wire with the supplied 1.2mm copper rod. Use Xtra hand tool or similar to keep the rod and the wires while soldering.
- Drive the Red, Blue, Green and White wires through the hole of the supplied rubber grommet leaving the black one out, put the copper rod on the area where you removed the paint in a way that it touches the bare aluminium and then push the grommet into the arm tube. The grommet edge must keep in place the copper rod, it can obtrude outside the grommet.
- Check with a multimeter if there is continuity between the arm (a good testing point is the thread of the rear stub) and the ground clip of the rewiring kit.
- With the kit, we supply 4 cartridge clips with coloured shrink tubes.
- Slide the shrink tube on the wire of the same colour, solder the clip the wire and then slide the tube onto the clip, shrink the tune with the help of the tip of your soldering iron.
- · Repeat this for all 4 clips.

Check with a multimeter is there is continuity between the cartridge pins and the RCA connectors, the colour scheme is as follow:

Left = white wire Left Ground = blue wire Right = red wire Right Ground = green wire

Cross section of the RB 300 stock arm.



- A- Cartridge Clips
- B- Headshell
- C- Rubber Cap
- D- Tonearm Wires: Red, Green, White & Blue
- E- Arm Tube
- F- Horizontal Bearing
- G- Ground Wire: Black

- H- Itty Bitty Rubber Tube
- I- Solder Connection Terminal
- J- Base or Post
- K- Set Screw
- L- Grey Base Cap
- M- Lead Wire



Fig 2 - head shell grommet in place with grounding rod

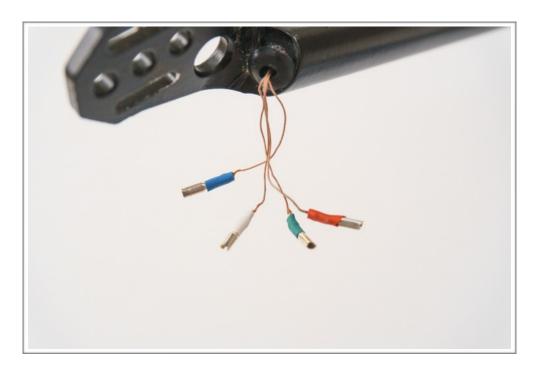


Fig 3 - Cartridge pins soldered in place