

The Vinyl Source rewiring kit for SME 3009/3012 S2 tonearms.

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

Tools you need:

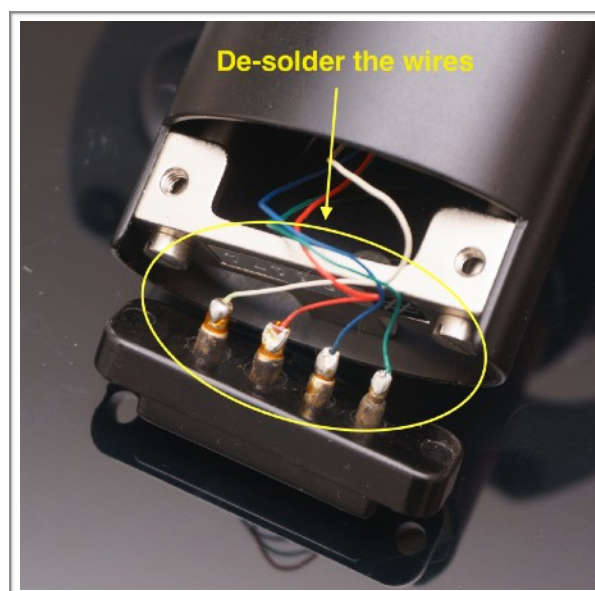
- 2.5-3 mm flat screwdriver
- 1.5 mm flat screwdriver
- Solder
- Soldering Iron
- Scissors
- Blue, Green and Red permanent markers
- Multimeter

Parts:

- 1 Wiring harness
- 4 cartridge pins with shrink tubes
- 2 M2.5 screws

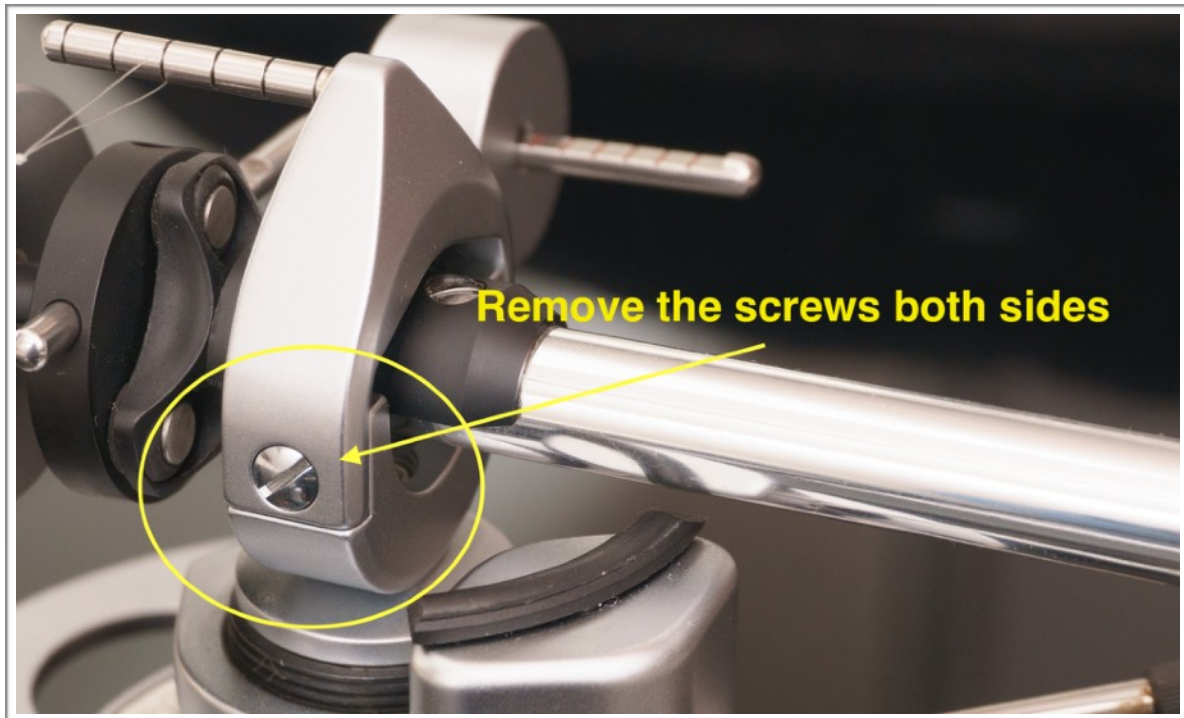
Instruction for the SME 3009/3012 fixed or removable headshell (the differences for the fixed or removable headshell are explained in the text)

- 1) **For 'short can' base with lateral connector:** Remove the existing connector and desolder, or cut, the 4 wires. **For 'long can' base with connector facing down:** slid out the can and then unscrew the long screw, then desolder or cut the existing wires

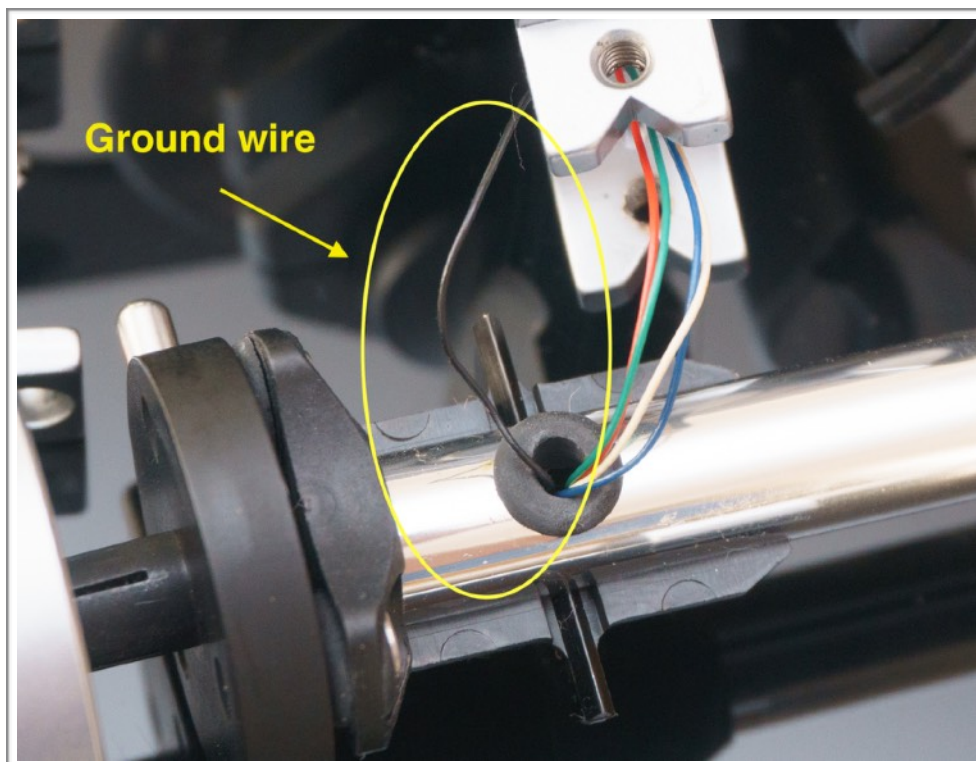


2) Remove knife bearing yoke.

- Use a 2.5-3mm flat screwdriver to remove the screws both sides

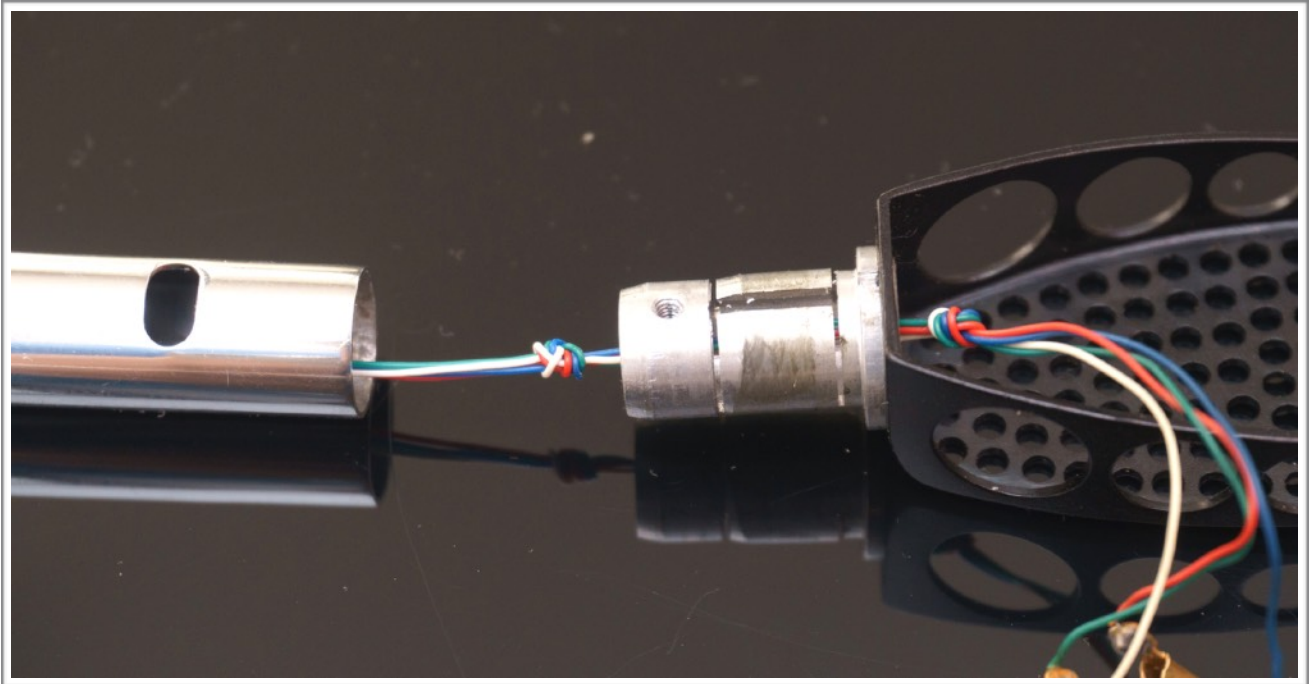


Once removed the arm comes free, be VERY careful to preserve the integrity of the ground wire (the black one)

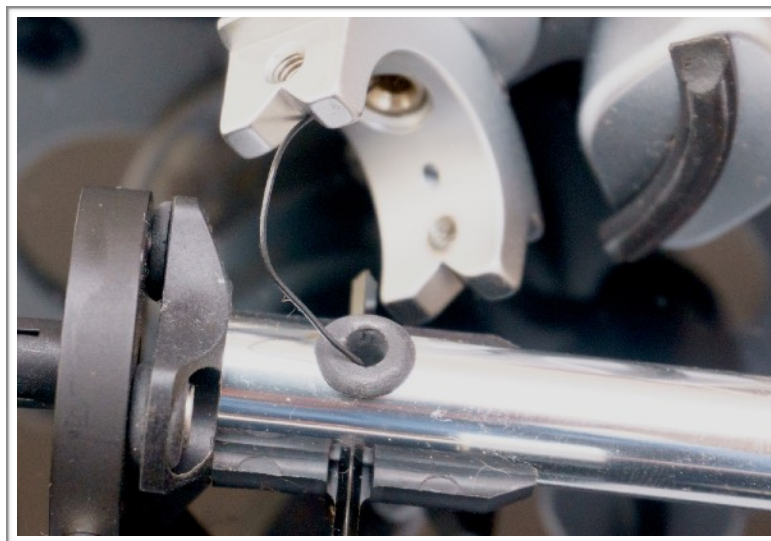


3) Remove the headshell of the headshell connector.

- Unscrew the small screw under the wand in proximity of the headshell.
- Pull the headshell/connector out of the arm tube.
- For fixed headshell: cut the wires at both end of the connector
- For removable headshell: desolder the wires at the end of the connector, make sure that the connector's pins are free from plastic and other remains of wires

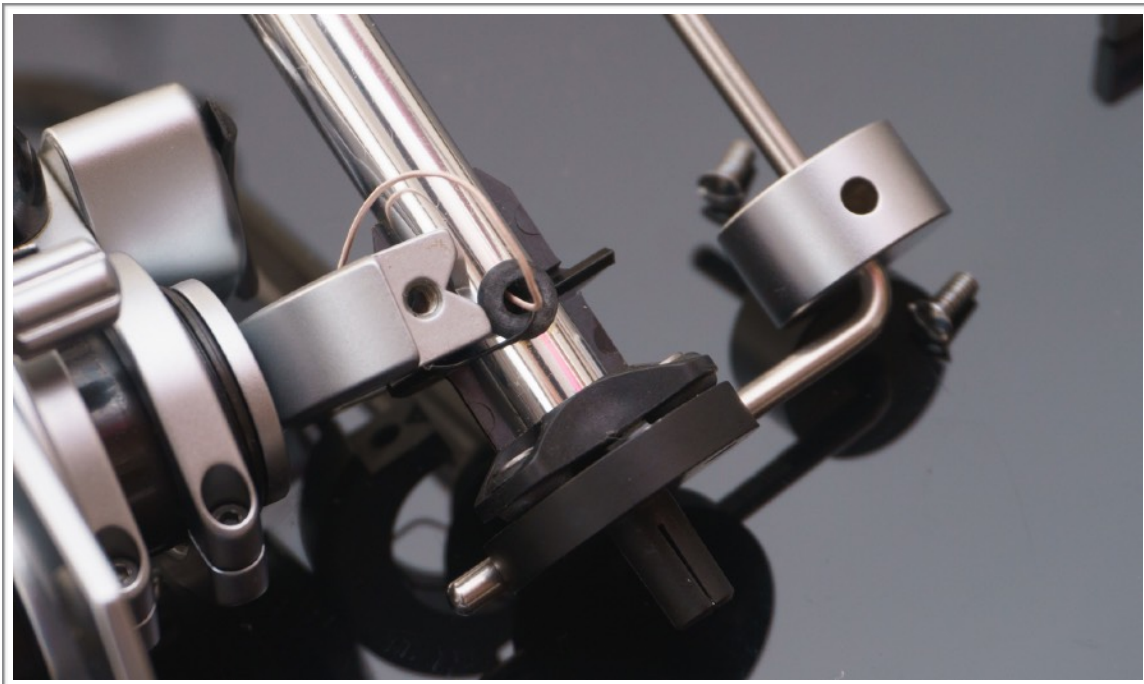


4) Gently remove the wire pulling them out from the arm tube. Take care that the black wire is not disturbed in the operation



5) Install the new wiring

Note: the kit is supplied with a draw wire soldered to the 4 Litz wires, this draw wire is made of a larger section of Litz wire and is flexible but stiff enough to go through the main pillar and the arm tube with moderate effort.



- Feed end of the wire into the tonearm's base and then straight into the arm tube like shown in the pictures, until it exit from the arm tube at the headshell side.
- 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, all the time take care that the black ground wire is not strained.
- Once the 4 Litz wires are out of the headshell, desolder the draw wire and free the wires.

Note: pull all the Litz wires until a 2" (5cm) are left at the base of the tonearm's pillar, this will allow to change the VTA of the tonearm without strain the wires.

6) Replace the knife bearing yoke into its original position

See step 2, take care that the 5 wires (4 Litz + ground) go straight from the arm tube into the main pillar, it's easy to get those wire messing into the knife bearing.

7) Solder the wires at the headshell's end.

The 4 Litz wires are much longer than required, this is done to allow the kit to be installed with ease and to be suitable for 9" and 12" tonearms.

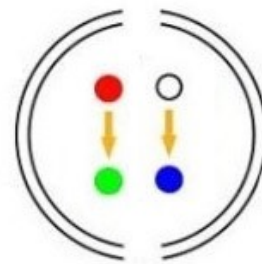
The Litz wires are silk covered and are all white, to identify them the end is painted with the following colours: Red, Green, Blue, White (natural silk colour, unpainted),

You need to cut the wires at a suitable length, before doing so, please mark the wires with the same colour just before the point you plan to cut, use a permanent marker.

Bear in mind that Litz wires need to be pre-tipped before soldering since every strand of the wire is insulated. Gently remove 2-3mm of silk from the wire's end using your fingernail, use a very hot solder iron (400-420 °C) to tin the copper, use the same solder iron to burn the silk next to the tinned point, this will avoid that the silk will peel away.

For removable headshell tonearms:

SME standard



You need to cut the wires leaving 1.5" (3.5 cm) outside the tonearm tube, then solder the 4 wires following the picture shown here. The connector is shown from the solder side in upright position.

For fixed headshell tonearms:

You need to cut the wire leaving 2" (5cm) outside the tonearm tube. With the kit, we supply 4 cartridge clips with coloured shrink tubes. Solder the 4 clips and then slide the shrink tube on the wire of the same colour, shrink the tube with the help of the tip of your soldering iron.

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

8) Fix the base connector

The wires and the base of your tonearm should look like this:



For 'short can' base with lateral connector: Fix the base connector using the 2 M2.5 screws supplied (the original one are too long), the ground connection (the round eye with a red sleeve) can be connected at either side. Bear in mind that you will need to detach this part when you will fit the tonearm onto the turntable, slip the cable first, then the tonearm with the cable hanging from the base (be careful to do not damage the Litz wires during the operation), once the tonearm is in place, then replace the connector in its original position.



For 'long can' base with connector facing down: Re-assemble the 2 long screws, the screws do throw the holes of the kit's base joint, take care that the red ground hook is attached to one of the screws, and then replace the 2 screws sleeves. Fix the screw to tonearm's base and slid back the can into the original position.

