

## Rewiring a Fidelity Research FR64 series arms

Primary Directions for FR-64fx – Difference for FR-64S indicated



1. Remove counterweight and arm lifter



2. Remove pillar bearing from base:
  - a. Gently remove the index sticker in the slot on the base
    - i. Heat can soften the glue

- ii. X-acto knife is best prying tool – followed by small screwdriver following the sticker toward the top



- b. This exposes 3 set screws, slotted (I replaced with hex screws as they are standard)



- c. Loosen all three set screws

- d. Should be able to pull bearing out of base (may need slight prying – don't pull DIN connector opposite direction – there's an o-ring holding it – careful not to break arm wires if not rewiring)



- 3. Remove pivot holding arm
  - a. External cover (can use pin driver or leather around external portion) – on FR64 S there is a shaft for the lateral balance that unscrews (leather cover) and then the nut cover can be

removed



- b. Will expose a nut which is removed - need to hold shaft in order to remove the nut
- c. Then the arm assembly can be removed from the carrier



4. Remove cover on counterweight stub



- a. This exposes a screw at the end



- b. Remove screw (often very tight) This exposes another setscrew



- c. Loosen setscrew and shaft for arm pivot and VTF can move
- d. This loosened pivot can be pushed in enough to remove large external cap on opposite side, exposing VTF spring. This spring has grease on it to provide damping but the grease will be very hard and no functioning. Clean and replace this grease (light Lubriplate works fine). Spring has been cleaned in the photo below



5. Remove bearing carrier from pillar bearing
  - a. Remove nut at bottom end
  - b. Remove brass carrier (may need a bit of prying) – no photo – but this exposes two small ball bearings. Clean these gently and re-oil with precision bearing oil

6. Clean and oil arm pivot bearing shown in photo below



7. This is the point to rewire the arm
  - a. Remove headshell connector and pull out (may be difficult)
  - b. Replace wires starting at headshell connector and feed back through arm and arm pillar
  - c. Connect to DIN connector
8. Re-Assemble in reverse order