

UnFairchild 670M II Tube Replacement Guide



Under the UTA warranty, UnFairchild tubes are covered for one year from the original purchase date. Post-warranty, JJ 6386-LGP replacement tubes are available for purchase from various JJ tube retailers.

Before proceeding, carefully review the instructions, then follow the steps below to identify and replace tubes as necessary.

Check the Balance (BAL)

Re-Balancing can often solve noise issues. Set Channel A and B Meter Mode to BAL. Use a small flat screwdriver or tweaker tool to rotate the BAL pot on each channel so each UnFairchild VU meter reaches its leftmost deflection. Listen for noise.

Note that the VU meters do not need to match but should reach approximately -20.

Troubleshooting Tube Noise

If the noise persists, the Gain Trim pots can be turned all the way down to provide the least current to the tubes. Then the UnFairchild can be powered up with one tube on one side for about one minute to evaluate for tube noise. See steps one through eight below.

NOTE THE FOLLOWING SAFETY MEASURES BEFORE PROCEEDING:

- a. MUTE THE SPEAKERS OR HEADPHONES BEFORE REMOVING OR POPULATING TUBES. THERE WILL BE A VERY LOUD POP THAT CAN DAMAGE SPEAKERS AND EARS!**
- b. LIMIT THE UNFAIRCHILD'S OPERATION WITH ONLY ONE 6386 TUBE POPULATED ON ONE SIDE TO ABOUT ONE MINUTE.**
- c. USE GLOVES OR A CLOTH TO HANDLE TUBES, THEY MAY BE HOT.**
- d. REPLACE THE 6386 TUBES WITH JJ 6386-LGP TUBES ONLY.**



1. With the power off, turn down the Gain Trim pot of the noisy channel to its full counterclockwise position.
2. Remove the rear tube cage by unscrewing the six phillips head screws, leaving the top middle screw for last.
3. Identify the column of four 6386 tubes corresponding to the noisy channel and remove three 6386 tubes from that channel.
4. With one of the four 6386 tubes populated in the noisy channel, power up for a maximum of about one minute. Evaluate for any noise during this period.
5. If there is no noise, mute monitors and power down. Leave the quiet tube in place and populate the next tube under test.
6. If there is noise, mute monitors and power down. Remove and mark the noisy tube and proceed to the next tube.
7. Once the replacement tube(s) are installed, power up and **re-balance**. Follow the **calibration** procedure detailed in the UnFairchild manual (pg. 9) to adjust for the gain changes.
8. After calibration, re-mount the tube cage using the six phillips head screws. Start with the top middle screw not completely tight first.

For further assistance, please contact Undertone Audio support.

By following these steps diligently, you can effectively troubleshoot and replace tubes in your UnFairchild MkII, ensuring optimal performance and longevity.