



MICHELL ENGINEERING

TecnoWeight Installation and Adjustment Instructions by Artech Electronics Ltd.

NOTE: When fitting to tonearms with a tracking force adjustment, set the arms tracking force to maximum tracking weight. This allows the cartridge tracking force to be set using the TecnoWeight's finger adjuster without interference from Rega's own spring-loaded tracking force system.

Locate the TecnoWeight parts in the packaging (see photo below). There are two scalloped counterweights. The smaller is for cartridges with a mass of approx 3–6 grams, the larger for 6–13 grams. An Allen key is included to lock the components. (An optional extra heavy scallop weight is available for cartridges weighing 13-16 grams.



Left to right: Large weight, small weight, slider bush, finger adjuster.



Scalloped weights versus phono cartridge weight.

NOTE: On tonearms equipped with a factory METAL stubshaft, it is safer to remove those with the tonearm OFF the deck as they are usually require greater torque to remove. Plastic stubshaft come out much easier.

Using a piece of rubber or rubber gloves for better grip, remove the existing stubshaft from rear of the arm by unscrewing the stubshaft anti-clockwise. Wrapping an elastic rubber band around the stubshaft may aid your grip. In some cases vice grips or pliers may be needed. Many parts of the arm are delicate and require careful handling. Ensure the tonearm is in the parked position and that you hold the arm tube securely when removing the stubshaft, so very little torque is placed on the bearings.



The arm should now look like this:



Remove the TecnoWeight parts from the packaging and unscrew the finger adjuster from the stubshaft. Screw the stubshaft into the rear of the arm just snug using rubber gloves or elastic rubber band. Do not over-tighten.

DO NOT USE PLIERS OR VICE GRIPS! You will damage the stub shaft and possibly ruin the tonearm's bearings.

The arm should now look like this:



Determine which size counterweight is appropriate for the cartridge being used, and push the slide bush into the scallop weight. (The smaller is for cartridges with a mass of approx 3–6 grams, the larger for 6–13 grams.) Using the supplied Allen key, lock the setscrew in the scallop weight, making sure the weight is central on the slide bush, and that the locking setscrew is vertical in the slide bush.

Counterweight mounted centrally on slide bush:



Slide the weight assembly onto threaded stub shaft with the tapered end of the slider bush facing rearward.

The arm should now look like this:



Screw the finger adjuster onto the threaded stubshaft **only one turn**. Now slide the scallop weight assembly **completely rearward** against the finger adjuster.



Ensure that the green bias slider adjuster knob is set at zero.



Now it is time to zero-balance the tonearm. Put a record on the platter. With the arm un-parked, begin to dial in some tracking weight by rotating the finger adjuster clockwise. This will begin to push the counterweight assembly toward the headshell, placing more weight on the stylus. Once you have enough weight to allow the stylus to **just slightly** touch the record's surface, note the position of the reference groove at the rear of the slider bush in relation to the closest dimple on the finger adjuster. Note: In the unlikely even that your cartridge is too heavy to achieve zero balance with the counterweight assembly fully rearward, loosen the setscrew underneath the scallop weight and move the scallop weight rearward a bit and re-tighten.



The correct tracking force can now be achieved by further rotation of the finger adjuster. Each dimple on the finger adjuster corresponds to 0.1 (one tenth) gram of tracking force. (e.g. A cartridge requiring 1.5 grams of tracking force requires rotation of 15 additional dimples past the reference groove at the rear of the slider bush.)

Once the correct tracking force is achieved, tighten the locking screw on top of the slide bush with the Allen key, making sure the scallop weight is absolutely horizontal when viewed from the rear. Do not over-tighten. Finally, tighten the finger adjuster snugly against slide bush to prevent it vibrating loose.

Set the bias adjustment knob to the same number as the cartridge tracking force. Note this setting is not critical and a figure of 1 to 1.5 grams will normally be suitable for moving magnet cartridges and 1.5 to 2 grams for most moving coil cartridges.