Fig. 2. The oscillator is shown at the right; accessory power supply at the left.

Stylus Shank and Tip. Between the stylus and the brush is the plate which forms one half of the capacitor (the other half is the stylus shank), which is part of the cartridge assembly. The variation in capacity, which modulates the oscillator, is produced by the motion of the stylus in relation to this fixed plate. Normal spacing is 10 to 20 thousandths of an inch.

Beyond the plate is the brush which is an integral and important part of the Weathers unit. For one thing, the brush cleans the record. For another, it absorbs 4 grams of the total cartridge pressure of 5 grams, leaving 1 gram for the stylus tip to carry.

We asked Paul Weathers how long the brush would last. None has worn out to date. After 6 months of almost continual use, the bristles tended to set and the pressure on the stylus tip increased to 1/4 grams. Beyond this time limit, no change has been noted.

A shielded wire, cut to specific length and furnished by the manufacturer, attaches to the two prongs at the right in Fig. 1.

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