

electro-harmonix

Q-TRON Envelope Controlled Filter

- OPERATING INSTRUCTIONS -

Congratulations on your purchase of the **Q-Tron** envelope controlled filter! You have purchased a very powerful tool for musical expression. Please take a few minutes to familiarize yourself with the **Q-Tron's** controls and how they work.

Envelope controlled filters are a unique type of sound modifier where the intensity of the effect is controlled by the user's playing dynamics. The volume (also known as the envelope) of an incoming audio signal is used to control a swept filter. As the volume increases or decreases, so does the pitch of the filter.

- CONTROLS -

Drive Switch (Up/Down) - Selects direction of filter sweep

Range Switch (Hi/Low) - Emphasizes vowel-like sounds in low position and overtones in high position.

Gain Control (0-11) - Functions as both a volume control and a filter sensitivity control in boost mode. In Normal mode the Gain control acts as a filter sensitivity control and has no effect on the unit's output volume.

Boost Switch (Normal/Boost) - Normal mode disengages internal pre-amp, Boost mode activates it. Also determines function of Gain control (see above).

The **Q-Tron** can also be used in conjunction with other effect pedals. Here are some interesting combinations:

Q-Tron and Big Muff distortion: Place the distortion after the **Q-Tron** in the signal chain. The use of distortion will dramatically increase the intensity of the **Q-Tron's** effect. You can also place the Distortion before the **Q-Tron**, but this combination tends to flatten the dynamic response range of the effect.

Q-Tron into another **Q-Tron**: Try this with one unit in the Up Drive position and one in the Down Drive position.

Q-Tron and octave divider: Place the octave divider before the **Q-Tron** in the signal chain. Make sure to use an octave divider which maintains the natural envelope of the signal. This combination will yield sounds similar to an analog synthesizer.

As always, experiment to achieve your own unique sound. When used properly, the **Q-Tron** will provide a lifetime of playing pleasure!

- WARRANTY -

Please complete and return the enclosed warranty card within 10 days of purchase. If you should need to return your unit for service within the warranty period, please include a brief description of the problem as well as your name, address, telephone number, copy of your purchase receipt, and a check or money order \$5.00 shipping and handling to:

Electro-Harmonix
C/O New Sensor Corporation
20 Cooper Square
New York, NY 10003
Att: Service Department

Please make checks/money orders payable to
New Sensor Corporation

Peak Control (0-11) - Determines frequency peak of filter. This control will create a more dramatic effect when turned clockwise.

Mode Switch (LP, BP, HP, MIX) - Determines what frequency range the filter will sweep in. Emphasizes lows in Low Pass, midrange in Band Pass, treble in High Pass. Mix mode combines BP with dry instrument signal.

Bypass Switch (in/out) - Disengages effect.

Lastly, the **Q-Tron**'s effect can be controlled by the user's playing dynamics. A strong attack will yield a more dramatic effect, while softer playing will yield more subtle effects or none at all.

- OPERATION -

Your unit comes equipped with a 24 volt/100 ma tip positive, external power adapter (European models come equipped with a 24V DC/ 30 ma tip positive adapter). Use only the power adapter supplied. Using the wrong adapter can cause serious bodily injury. Using the wrong adapter may also damage your unit and will void the warranty.

Make sure all controls are set at minimum. Connect your instrument to the **input** jack and your amplifier to the **effect out** jack. The unit's power LED should be lit.

Set the **Q-Tron**'s controls to the following:

Drive Switch: Up
Range Switch: Low
Mode Switch: BP
Peak Control: Maximum
Boost Switch: Normal
Gain Control: See Below

Vary the Gain control until the Overload Indicator LED lights on most of the notes you play. If no effect is noticeable, depress the Bypass switch to engage the effect. With this setting the user should be able to

approximate the sound of a conventional wah wah pedal. Experiment with this setting to see how the **Q-Tron** reacts to playing dynamics. Adjusting the Gain and Peak controls will vary the amount and intensity of the effect. For tonal variations adjust the Range, Mode, and Drive controls.

To attain an effect similar to an original Mutron III, set the **Q-Tron**'s controls to the following:

Drive Switch: Down
Range Switch: Low
Mode Switch: BP
Peak Control: Maximum
Boost Switch: Boost
Gain Control: See Below

Vary the Gain control until the Overload Indicator LED lights on only the loudest notes you play. Increasing the Gain will saturate the filter, yielding those famous, "chewy" Mutron-like sounds. Adjusting the Peak control will vary the intensity of the effect. For tonal variations, adjust the Range, Mode, and Drive controls.

- OPTIONS -

Due to the **Q-Tron**'s extended frequency response, it can be used with a wide variety of electronic instruments. Here are some setting tips for use with different instrument types:

Range Control: Lo range is the best for rhythm guitar and bass. Hi range is best for lead guitar, brass, and wind use. Both ranges work well with keyboards.

Mix Mode: Works especially well with bass guitar (may require higher peak settings).

Drive Switch: Down Drive works well with bass guitar. Up Drive is best with guitar and keyboards.