

#### GENERAL INFORMATION

##### 1. DEAR MORLEY OWNER

You are about to use one of the finest effect boxes made. Morley products are designed for years of trouble free operation. To insure maximum satisfaction please take time to read this booklet which points out many features of the product, some of which may be new to you.

##### 2. POWER SOURCES - Battery and AC (mains)

All Morley effect boxes are designed to operate from one or two 9 volt (NEDA 1604A) batteries or an optional AC (mains) adapter.\* The battery can be installed by removing the 4 screws which hold the bottom cover in place. The adapter automatically disconnects the battery when it is plugged into the effect box, thereby prolonging battery life.

The adapter is more economical to use than batteries, however there are times when using the battery is more convenient. Morley therefore provides both capabilities.

##### 3. INDICATORS (LED) Lamps

The use of two indicator lamps tells you when power is on, or if either or both sources are not functioning (such as a dead battery) or the adapter is not plugged into a live receptacle.

In addition the two indicators tell when the musical effect is turned on or the unit has been switched to the normal signal condition.

##### 4. LOW NOISE

All electronic devices generate some noise. Good design and materials make possible high signals relative to the amount of noise. This "high signal to noise ratio" can make the noise virtually unnoticeable. This characteristic and capability is very important in the design of all Morley products.

\* No less than 12 volts.

See adapter requirements on bottom of unit.

This is important because the effect box can operate from very weak or high impedance sources without loading down the signal.

##### 6. LOW OUTPUT IMPEDANCE

This is important because it reduces high frequency losses and hum pickup by the cable which comes from the output side of the effect box. It makes it possible to use much longer cables over greater distances without signal deterioration and reduces or eliminates loading by the device to which it connects.

#### SET UP AND OPERATING INFORMATION

Plug a cord from a signal source, or a musical instrument, etc., into the jack marked "Input." This will automatically turn the power on and one of the indicator lamps will light. If a power adapter is used, the unit will turn on and the lamp will light without the signal cord being plugged in.

Plug another cable from the jack marked "Output" and connect it to the "Input" of your amplifier.

Activate the foot switch. The lamp that is lit will go off and the other one will come on. Set it so the "Effect Off" lamp lights. Now make some sounds from the instrument and set the amplifier for its normal response. Next activate the foot switch one time which will turn on the effect.

#### STEREO CHORUS-VIBRATO (SCV)

##### PRINCIPLE OF OPERATION

The Morley Stereo Chorus-Vibrato contains extremely quiet solid state digital and analog circuitry that delays the signal for a small fraction of a second and then combines the delayed signal with the direct signal. The delay continually fluctuates in the range of 500 microseconds (.0005) to 15 milliseconds (.015) at a rate determined by control settings. This rate may be anywhere from one excursion every 20 seconds (.05Hz) to 9 times a second (9Hz).

enhanced due to the addition of:

1. Pitch changes resulting from the changing delays; similar to pitch changes which occur when a recording is speeded up or slowed down.
2. Beat notes which vary with the signal frequency as well as control settings. This occurs from the mixing of direct and varying delay signals.
3. Changing harmonic structures due to the continuously moving frequencies of enhancement and cancellation.

##### CHORUS-VIBRATO OPERATION

1. Turn effect on with "Effect On-Off" footswitch. LED will light.
2. Select chorus or vibrato mode by depressing "Chorus-Vibrato" footswitch.
3. The LED indicator will pulsate slowly in chorus mode and rapidly when in vibrato mode.
4. If in chorus mode adjust chorus intensity control for desired effect. The effect increases by turning control in clockwise direction. The pulsating LED will so indicate.
5. In vibrato mode adjust the "Depth" and "Speed" controls for desired speed and intensity. Again the LED indicator will respond accordingly.

##### STEREO OPERATION

1. Stereo effects are automatically generated by plugging a second amplifier into the "Stereo" jack on the rear of the unit. The two speakers should be as far apart as practical and always over 10 feet if both speakers are facing in the same direction. Amplifier volume controls should be adjusted so listeners receive equal sound from both speakers.

In the "Effects Off" mode, direct signals are connected to both amplifiers. In the "Effects On" mode, direct and delayed signals are split and applied to separate amplifiers producing stereo effects by causing the mixing to take place in the ears and brain of the listener.