

## ■ SPECIFICATIONS

INPUT IMPEDANCE :	500K ohms
OUTPUT IMPEDANCE :	Less than 10K ohms
FILTER FREQUENCY :	Low Range 100Hz-2KHz High Range 200Hz-4KHz
EQUIVALENT NOISE :	Less Than-90dBm (Input shorted IHF-A)
POWER SUPPLY :	1.9Volt Battery s-006P or equivalent or 9 VDC adaptor
POWER CONSUMPTION :	77mW (Effect on)
DIMENSION :	125mm(D)×70(W)×56(H)
WEIGHT :	550g

***Ibanez***

# AUTO FILTER

AF201

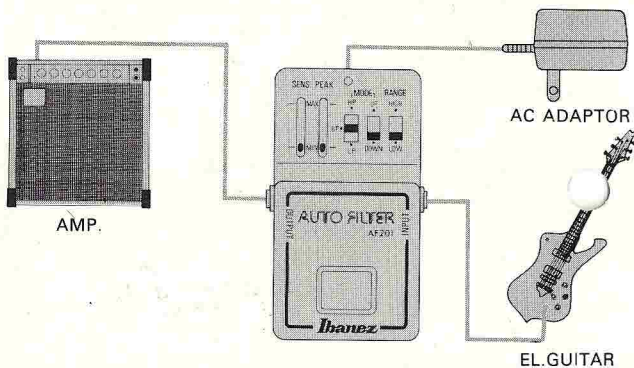
INSTRUCTION MANUAL

## ■ FEATURES

- 5 Controls provide wide sound variation ranging from wah to synthesizer sound.
- "Q1" Noiseless pop free FET switching.
- One touch quick change battery pocket. No screwdriver or coin needed.
- LED effect status and battery condition indicator.
- Battery or external power operated. Internal regulated power supply for stable effects.
- Rugged die-cast zinc heavy duty case.

## ■ CONNECTIONS

- 1) Connect output jack of AF201 to amplifier. Connect input jack to instruments.  
The AF201 automatically switches on when plug is inserted.
- 2) When using AC adaptor, use 9VDC audio type.



## ■ OPERATION AND CONTROLS

To better understand the operation of the Auto Filter, it can be compared to a regular wah pedal. A wah pedal produces its characteristic sound by shifting the center frequency of a bandpass filter. This is controlled by the pedal movement. In the Auto Filter the frequency shift is accomplished by a VCF (Voltage Controlled Filter) which is controlled by the envelope of the input signal. The Auto Filter automatically produces wah effects as the input signal envelope varies. The AF201 also has High Pass and Low Pass Filter capability, which produces synthesizer like sounds.

### 1) SENS.

Controls the sensitivity of the VCF to the input signal. Set for best effect depending on the output signal of instrument or playing of guitar. At MAX position, filter frequency shift is maximum.

### 2) PEAK

Controls peak amplitude of filtered signal. High PEAK settings may cause your amplifier to distort.

### 3) MODE HP/BP/LP

Selects High Pass, Band Pass or Low Pass filtering. Response of Low Pass filter is shown in fig. 1. High frequencies are filtered out or cut. Response of Band Pass filter is shown in fig. 2. High and Low frequencies are cut. Fig. 3 shows the Low frequency cut of the High Pass filter.

### 4) MODE UP/DOWN

Fig. 1, 2, 3. In the UP position, the AF201 shifts the filter frequency from low to high. In the DOWN position the filter frequency is shifted from high to low.

### 5) RANGE HIGH/LOW

Selects filtering range.

LOW: 100Hz-2KHz

HIGH: 200Hz-4KHz

Use LOW range for Bass guitar.

### 6) EFFECT ON/OFF

Push Q-1 switch to change status.

### 7) LED Indicator

Shows when effect is on. When LED becomes dim, change battery.

### 8) Operating Precautions

Unplug the instrument when not in use.

When storing for long periods remove the batteries.

When the batteries wear down to a certain point you may notice some distortion and loss of level.

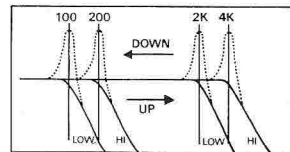


Fig. 1 LPF

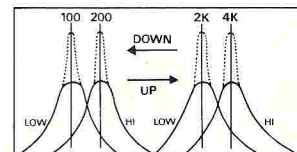


Fig. 2 BPF

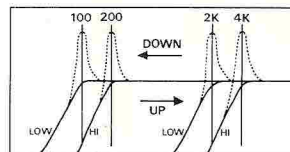


Fig. 3 HPF