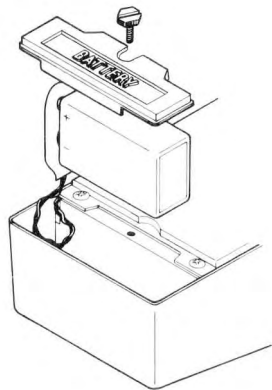


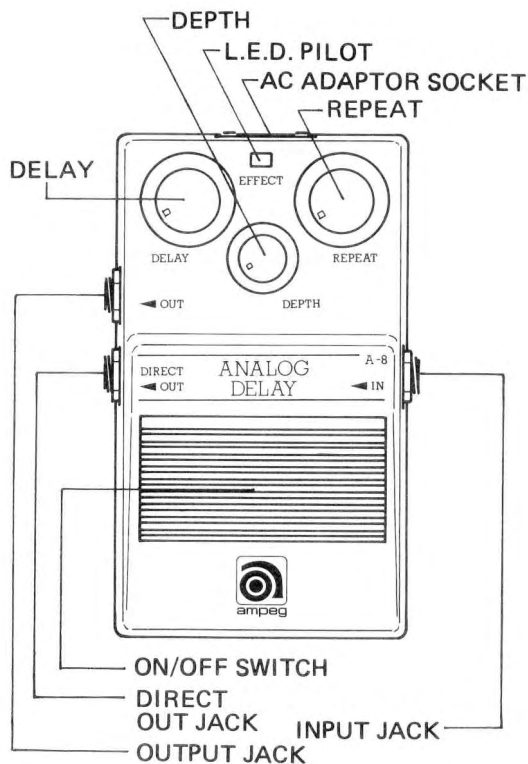
## Preparing Unit for Use

### REPLACEMENT/INSTALLATION OF BATTERY

1. Loosen screw (turn counter-clockwise) and remove battery cover.
2. Replace/Install battery by installing into provided battery terminal clip (terminal clip is polarized to fit only one way).
3. Insert battery into battery case (do not pinch wires) and tighten screw once again.



## PROVIDED FUNCTIONS



## FUNCTION DESCRIPTIONS

### FOOT SWITCH

Turns unit ON and OFF, using solid state "quiet" switching method.

### L.E.D.

Provides visual indication of ON/OFF.

### DELAY

This will adjust the delay TIME of the echo effect. Turning to the RIGHT will increase the delay time.

### REPEAT

Provides an adjustment to add or delete the amount of repeats the echo effect will generate. Turning this control to the RIGHT will provide more repeats. Note: When turned to maximum right position it will create a continuous "feedback" effect.

### DEPTH

This control adjusts the volume of the actual ECHO effect. Turn RIGHT to increase echo volume.

### DIRECT OUT JACK

Used when a "stereo" chorus effect is needed. Use with two amplifiers, one channel will always provide natural sound, the second channel is used for the effects ON/OFF effect.

### AC ADAPTOR JACK

Connect an Ampeg Effects AC adaptor jack in the event extra stable power is needed.

### OUT JACK

Connection TO amplifier, mixer, etc.

### IN JACK

Connection FROM guitar, bass, keyboard, etc.

## CONNECTION PROCEDURE

1. Make all connections noted in the FUNCTION DESCRIPTIONS.
2. Turn all controls to "half" (12 o'clock) position.
3. Press foot switch into position which the LED indicator is illuminated.
4. Adjust controls as desired, using details listed in the FUNCTION DESCRIPTIONS section of this manual.

## OPERATING CAUTIONS

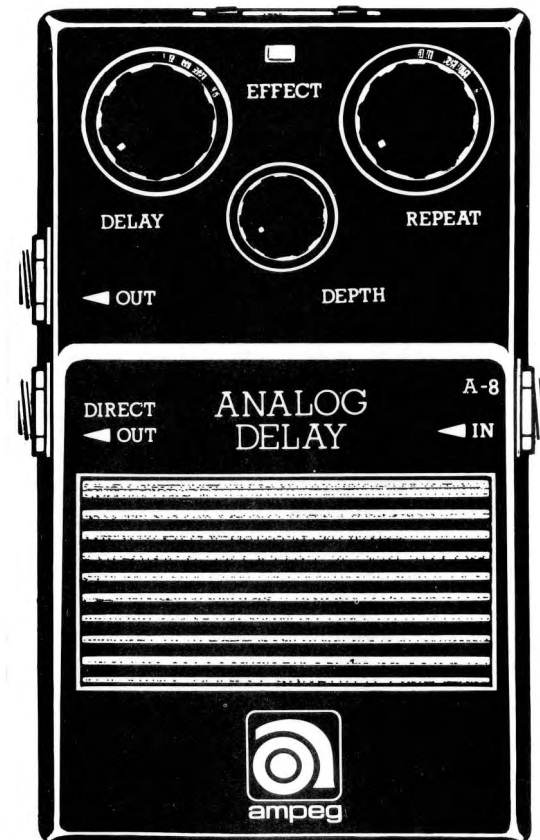
1. Protect unit from excessive moisture and dust.
2. Unit could be damaged severely if operated with an improper AC line adaptor.
3. When not using effect for a period of time, remove batteries for storage.
4. Weak batteries can cause improper performance of effect unit.
5. To conserve battery life, disconnect input wire from unit.

## SPECIFICATIONS

<b>Power</b>	Battery DC 9 volt (1) Ampeg AC adaptor
<b>Controls</b>	Delay, Repeat, Depth
<b>Function Items</b>	L.E.D. ON/OFF, AC adaptor socket, ON/OFF switch, battery case cover
<b>Jacks</b>	Input, Output, Direct Output
<b>Switching System</b>	"Noiseless" Solid state type
<b>Maximum Input</b>	-2dB
<b>Maximum Output</b>	-6dB
<b>Maximum Delay Time</b>	.300 mSec.
<b>Minimum Delay Time</b>	.50 mSec.
<b>Output Impedance</b>	.10 Kohms
<b>Weight</b>	.370g
<b>Overall Size</b>	.68 (W) x 53 (H) x 120 (D) mm

Specifications are subject to change without notice.

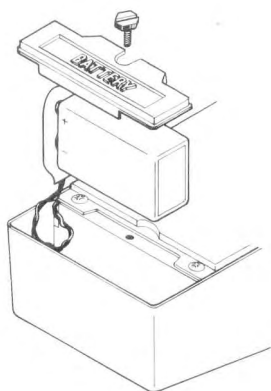
Printed in Japan



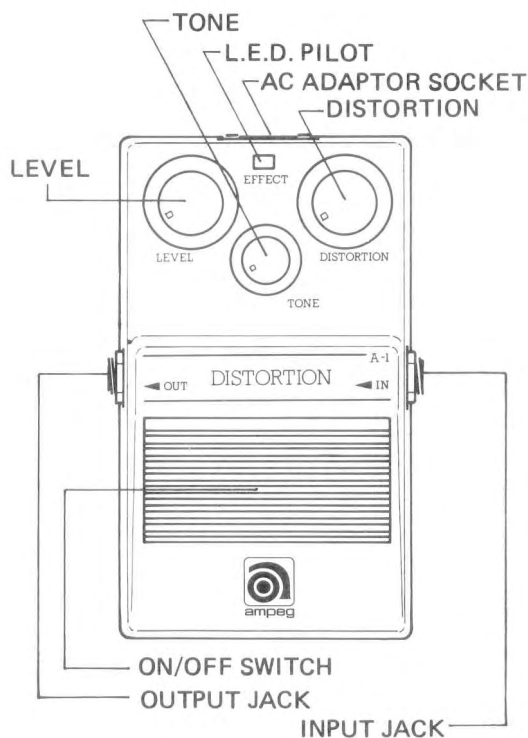
## Preparing Unit for Use

### REPLACEMENT/INSTALLATION OF BATTERY

1. Loosen screw (turn counter-clockwise) and remove battery cover.
2. Replace/Install battery by installing into provided battery terminal clip (terminal clip is polarized to fit only one way).
3. Insert battery into battery case (do not pinch wires) and tighten screw once again.



## PROVIDED FUNCTIONS



## FUNCTION DESCRIPTIONS

### FOOT SWITCH

Turns unit ON and OFF, using solid state (F.E.T.) "quiet" switching method.

### L.E.D.

Provides visual indication of ON/OFF.

### LEVEL

Adjusts the volume level output when in the Effects ON position.

### DISTORTION

Provides adjustment for the amount of distortion desired. Turning to the RIGHT increases the amount of distortion.

### TONE

Turning to the RIGHT will provide addition Brilliance to the overall tone of the effect.

### AC ADAPTOR JACK

Connect a Ampeg Effects AC adaptor jack in the event extra stable power is needed.

### OUT JACK

Connection TO amplifier, mixer, etc.

### IN JACK

Connection FROM guitar, bass, keyboard, etc.

## CONNECTION PROCEDURE

1. Make all connections noted in the FUNCTION DESCRIPTIONS.
2. Turn all controls to "half" (12 o'clock) position.
3. Press foot switch into position which the LED indicator is illuminated.
4. Adjust controls as desired, using details listed in the FUNCTION DESCRIPTIONS section of this manual.

## OPERATING CAUTIONS

1. Protect unit from excessive moisture and dust.
2. Unit could be damaged severely if operated with an improper AC line adaptor.
3. When not using effect for a period of time, remove batteries for storage.
4. Weak batteries can cause improper performance of effect unit.
5. To conserve battery life, disconnect input wire from unit.

## SPECIFICATIONS

**Power** . . . . . Battery DC 9 volt (1)  
Ampeg AC adaptor

**Controls** . . . . . Level, Over Drive, Tone

**Function Items** .L.E.D. ON/OFF indicator, AC adaptor socket, ON/OFF switch, battery case cover

**Jacks** . . . . . Input, Output

**Switching System**  
. . . "Noiseless" Solid state type

**Maximum Input** +3dB

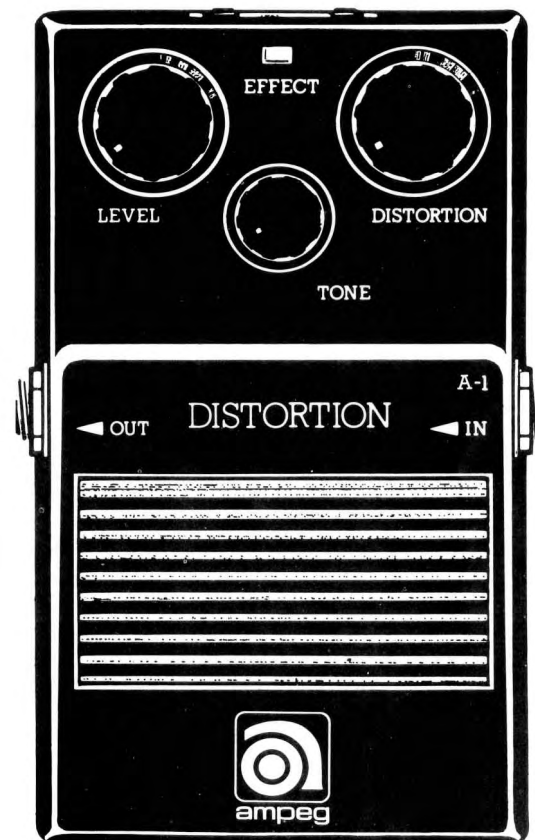
**Maximum Output**  
. . . -10dB

**Output Impedance**  
. . . 10 Kohms

**Weight** . . . . . 370g

**Overall Size** . .68 (W) x 53 (H) x  
120 (D) mm

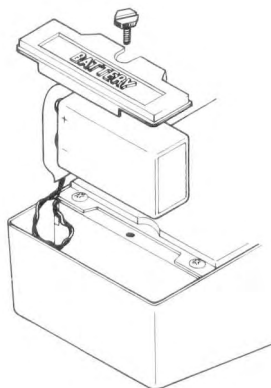
Specifications are subject to change without notice.



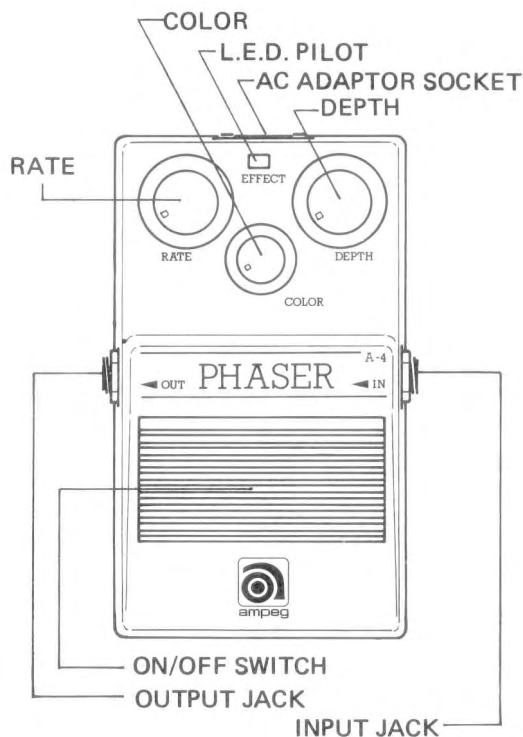
## Preparing Unit for Use

### REPLACEMENT/INSTALLATION OF BATTERY

1. Loosen screw (turn counter-clockwise) and remove battery cover.
2. Replace/Install battery by installing into provided battery terminal clip (terminal clip is polarized to fit only one way).
3. Insert battery into battery case (do not pinch wires) and tighten screw once again.



## PROVIDED FUNCTIONS



## FUNCTION DESCRIPTIONS

### FOOT SWITCH

Turns unit ON and OFF, using solid state (F.E.T.) "quiet" switching method.

### L.E.D.

Provides visual indication of ON/OFF.

### RATE

Adjusts the speed (LFO) for the phase effect. Turn to the RIGHT to increase speed of effect.

### DEPTH

Adjusts the depth or intensity of the phase effect. Turn to the RIGHT to increase phase effect.

### COLOR

Provides a means to accent the harmonic resonance of the phase effect. A rotary speaker effect may be obtained when using this control set near minimum.

### AC ADAPTOR JACK

Connect an Ampeg Effects AC adaptor jack in the event extra stable power is needed.

### OUT JACK

Connection TO amplifier, mixer, etc.

### IN JACK

Connection FROM guitar, bass, keyboard, etc.

## CONNECTION PROCEDURE

1. Make all connections noted in the FUNCTION DESCRIPTIONS.
2. Turn all controls to "half" (12 o'clock) position.
3. Press foot switch into position which the LED indicator is illuminated.
4. Adjust controls as desired, using details listed in the FUNCTION DESCRIPTIONS section of this manual.

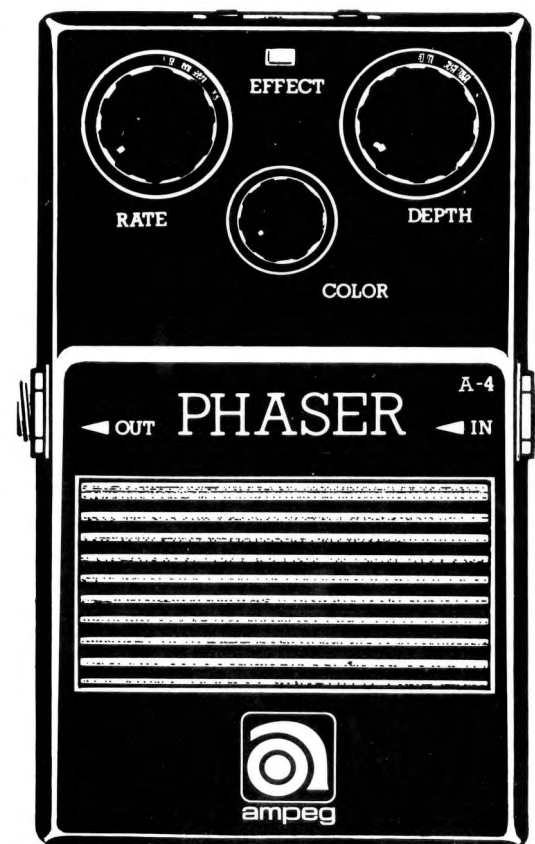
## OPERATING CAUTIONS

1. Protect unit from excessive moisture and dust.
2. Unit could be damaged severely if operated with an improper AC line adaptor.
3. When not using effect for a period of time, remove batteries for storage.
4. Weak batteries can cause improper performance of effect unit.
5. To conserve battery life, disconnect input wire from unit.

## SPECIFICATIONS

<b>Power</b>	... Battery DC 9 volt (1) Ampeg AC adaptor
<b>Controls</b>	... Rate, Depth, Color
<b>Function Items</b>	... L.E.D. ON/OFF indicator, AC adaptor socket, ON/OFF switch, battery case cover
<b>Jacks</b>	... Input, Output
<b>Switching System</b>	... "Noiseless" Solid state type
<b>Maximum Input</b>	... -2dB
<b>Maximum Output</b>	... -2dB
<b>Output Impedance</b>	... 10 Kohms
<b>Weight</b>	... .370g
<b>Overall Size</b>	... .68 (W) x 53 (H) x 120 (D) mm

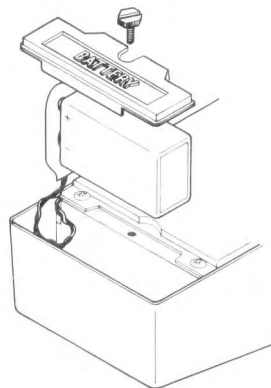
Specifications are subject to change without notice.



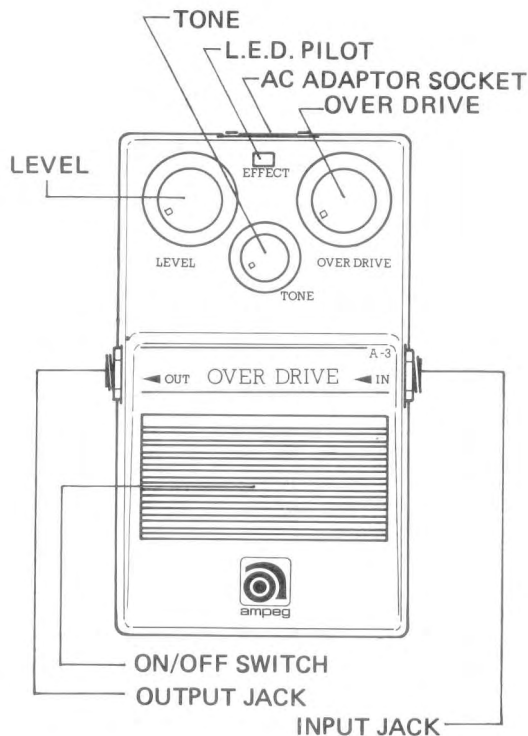
## Preparing Unit for Use

### REPLACEMENT/INSTALLATION OF BATTERY

1. Loosen screw (turn counter-clockwise) and remove battery cover.
2. Replace/Install battery by installing into provided battery terminal clip (terminal clip is polarized to fit only one way).
3. Insert battery into battery case (do not pinch wires) and tighten screw once again.



## PROVIDED FUNCTIONS



## FUNCTION DESCRIPTIONS

### FOOT SWITCH

Turns unit ON and OFF, using solid state (F.E.T.) "quiet" switching method.

### L.E.D.

Provides visual indication of ON/OFF.

### LEVEL

Adjusts the volume level output when in the Effects ON position.

### OVER DRIVE

Provides adjustment for the amount of over-drive desired. Turning to the RIGHT increases the amount of over-drive.

### TONE

Turning to the RIGHT will provide additional Brilliance to the overall tone of the effect.

### AC ADAPTOR JACK

Connect a Ampeg Effects AC adaptor jack in the event extra stable power is needed.

### OUT JACK

Connection TO amplifier, mixer, etc.

### IN JACK

Connection FROM guitar, bass, keyboard, etc.

## CONNECTION PROCEDURE

1. Make all connections noted in the FUNCTION DESCRIPTIONS.
2. Turn all controls to "half" (12 o'clock) position.
3. Press foot switch into position which the LED indicator is illuminated.
4. Adjust controls as desired, using details listed in the FUNCTION DESCRIPTIONS section of this manual.

## OPERATING CAUTIONS

1. Protect unit from excessive moisture and dust.
2. Unit could be damaged severely if operated with an improper AC line adaptor.
3. When not using effect for a period of time, remove batteries for storage.
4. Weak batteries can cause improper performance of effect unit.
5. To conserve battery life, disconnect input wire from unit.

## SPECIFICATIONS

<b>Power</b>	... Battery DC 9 volt (1) Ampeg AC adaptor
<b>Controls</b>	... Level, Over Drive, Tone
<b>Function Items</b>	... L.E.D. ON/OFF indicator, AC adaptor socket, ON/OFF switch, battery case cover
<b>Jacks</b>	... Input, Output
<b>Switching System</b>	... "Noiseless" Solid state type
<b>Maximum Input</b>	+3dB
<b>Maximum Output</b>	... -10dB
<b>Output Impedance</b>	... 10 Kohms
<b>Weight</b>	... 370g
<b>Overall Size</b>	... 68 (W) x 53 (H) x 120 (D) mm

Specifications are subject to change without notice.

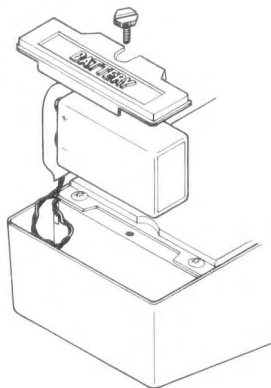




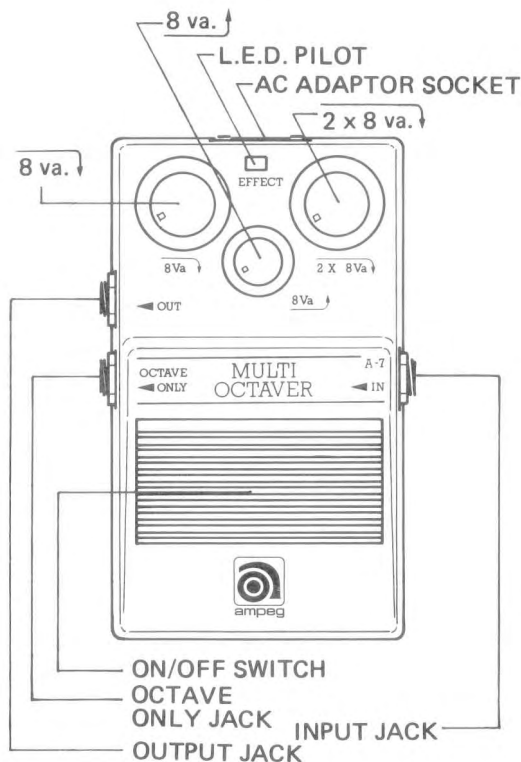
## Preparing Unit for Use

### REPLACEMENT/INSTALLATION OF BATTERY

1. Loosen screw (turn counter-clockwise) and remove battery cover.
2. Replace/Install battery by installing into provided battery terminal clip (terminal clip is polarized to fit only one way).
3. Insert battery into battery case (do not pinch wires) and tighten screw once again.



## PROVIDED FUNCTIONS



## FUNCTION DESCRIPTIONS

### FOOT SWITCH

Turns unit ON and OFF, using solid state "quiet" switching method.

### L.E.D.

Provides visual indication of ON/OFF.

### 8 va.

Controls the output volume of the effect. Turning RIGHT will increase the volume level of the ONE OCTAVE LOWER tone or sound in relation with the "original" input signal.

### 2x8 va.

This provides adjustment of the TWO OCTAVE LOWER tone or sound. As above, when turned to the RIGHT it will increase the volume level of the effect sound over the original signal.

### 8 va.

Adjusts volume level of the ONE OCTAVE HIGHER tone or sound. When turned to the RIGHT, it will increase the volume of the effect sound over the original signal.

### OCTAVE ONLY JACK

To be used when only octave tones (not including the "original" sound) are to be obtained.

### AC ADAPTOR JACK

Connect an Ampeg Effects AC adaptor jack in the event extra stable power is needed.

### OUT JACK

Connection TO amplifier, mixer, etc.

### IN JACK

Connection FROM guitar, bass, keyboard, etc.

## CONNECTION PROCEDURE

1. Make all connections noted in the FUNCTION DESCRIPTIONS.
2. Turn all controls to "half" (12 o'clock) position.
3. Press foot switch into position which the LED indicator is illuminated.
4. Adjust controls as desired, using details listed in the FUNCTION DESCRIPTIONS section of this manual.

## OPERATING CAUTIONS

1. Protect unit from excessive moisture and dust.
2. Unit could be damaged severely if operated with an improper AC line adaptor.
3. When not using effect for a period of time, remove batteries for storage.
4. Weak batteries can cause improper performance of effect unit.
5. To conserve battery life, disconnect input wire from unit.

## SPECIFICATIONS

<b>Power</b>	... Battery DC 9 volt (1) Ampeg AC adaptor
<b>Controls</b>	.. .8 va. (down), 2x8 va. (down), 8 va. (up)
<b>Function Items</b>	.L.E.D. ON/OFF, AC adaptor socket, ON/OFF switch, battery case cover
<b>Jacks</b>	... Input, Output, Octave Only
<b>Switching System</b>	... "Noiseless" Solid state type
<b>Maximum Input</b>	+6dB
<b>Maximum Output</b>	... -3dB
<b>Output Impedance</b>	... 470 Ohms
<b>Weight</b>	... 370g
<b>Overall Size</b>	.68 (W) x 53 (H) x 120 (D) mm

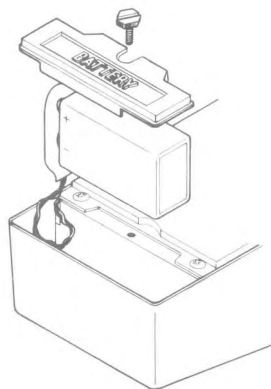
Specifications are subject to change without notice.



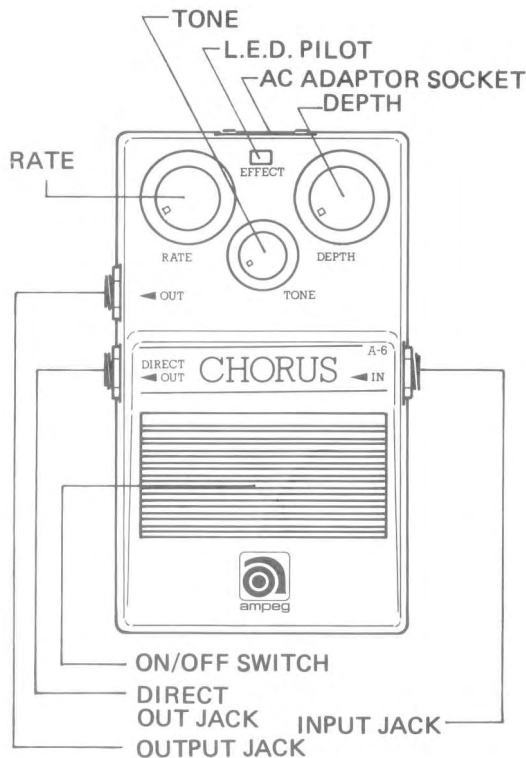
## Preparing Unit for Use

### REPLACEMENT/INSTALLATION OF BATTERY

1. Loosen screw (turn counter-clockwise) and remove battery cover.
2. Replace/Install battery by installing into provided battery terminal clip (terminal clip is polarized to fit only one way).
3. Insert battery into battery case (do not pinch wires) and tighten screw once again.



## PROVIDED FUNCTIONS



## FUNCTION DESCRIPTIONS

### FOOT SWITCH

Turns unit ON and OFF, using solid state "quiet" switching method.

### L.E.D.

Provides visual indication of ON/OFF.

### RATE

Adjusts "speed" (LFO) of chorus effect. Turning clockwise will cause speed increase.

### DEPTH

Adjusts the depth/intensity of the chorus effect. Turn clockwise to increase depth.

### TONE

Provides an additional accent on highs when turned clockwise, lows accented when turned counter-clockwise.

### DIRECT OUT JACK

Used when a "stereo" chorus effect is needed. Use with two amplifiers, one channel will always provide natural sound, the second channel is used for the effects ON/OFF effect.

### AC ADAPTOR JACK

Connect an Ampeg Effects AC adaptor jack in the event extra stable power is needed.

### OUT JACK

Connection TO amplifier, mixer, etc.

### IN JACK

Connection FROM guitar, bass, keyboard, etc.

## CONNECTION PROCEDURE

1. Make all connections noted in the FUNCTION DESCRIPTIONS.
2. Turn all controls to "half" (12 o'clock) position.
3. Press foot switch into position which the LED indicator is illuminated.
4. Adjust controls as desired, using details listed in the FUNCTION DESCRIPTIONS section of this manual.

## OPERATING CAUTIONS

1. Protect unit from excessive moisture and dust.
2. Unit could be damaged severely if operated with an improper AC line adaptor.
3. When not using effect for a period of time, remove batteries for storage.
4. Weak batteries can cause improper performance of effect unit.
5. To conserve battery life, disconnect input wire from unit.

## SPECIFICATIONS

<b>Power</b>	... Battery DC 9 volt (1) Ampeg AC adaptor
<b>Controls</b>	.. Rate, Depth, Tone
<b>Function Items</b>	.L.E.D. ON/OFF, AC adaptor socket, ON/OFF switch, battery case cover
<b>Jacks</b>	... Input, Output, Direct Output

### Switching System

.. "Noiseless" Solid state type

**Maximum Input** -2dB

**Maximum Output**

... -6dB

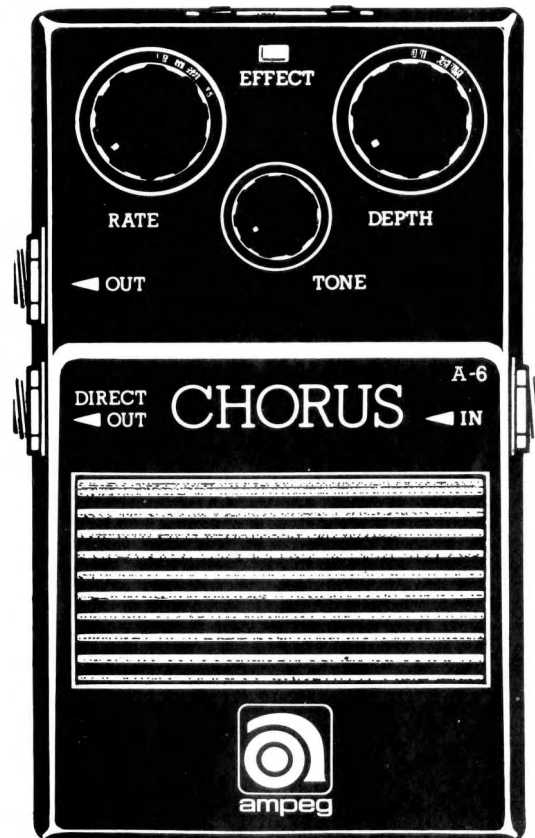
### Output Impedance

... 10 Kohms

**Weight** ... 370g

**Overall Size** .68 (W) x 53 (H) x 120 (D) mm

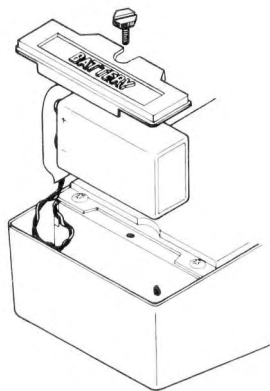
Specifications are subject to change without notice.



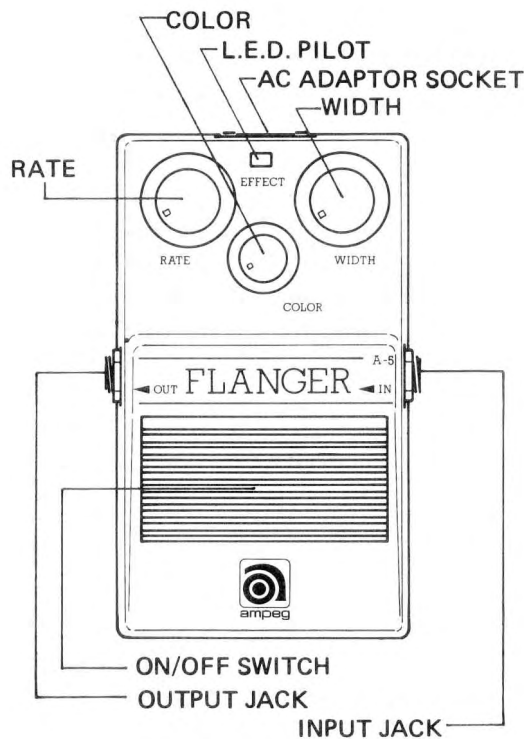
## Preparing Unit for Use

### REPLACEMENT/INSTALLATION OF BATTERY

1. Loosen screw (turn counter-clockwise) and remove battery cover.
2. Replace/Install battery by installing into provided battery terminal clip (terminal clip is polarized to fit only one way).
3. Insert battery into battery case (do not pinch wires) and tighten screw once again.



## PROVIDED FUNCTIONS



## FUNCTION DESCRIPTIONS

### FOOT SWITCH

Turns unit ON and OFF, using solid state (F.E.T.) "quiet" switching method.

### L.E.D.

Provides visual indication of ON/OFF.

### RATE

Adjusts the speed (LFO) rate of the flanging effect. Turn RIGHT to increase speed of effect.

### WIDTH

Provides an adjustment of the range of the flanging effect. Turning to the RIGHT gives a "deeper" and "wider" range of effect.

### COLOR

Provides additional enhancement of flanging effect. Maximizing BOTH the WIDTH and the COLOR controls can be utilized to create various special effects. This control also emphasizes the harmonic resonance as well.

### AC ADAPTOR JACK

Connect an Ampeg Effects AC adaptor jack in the event extra stable power is needed.

### OUT JACK

Connection TO amplifier, mixer, etc.

### IN JACK

Connection FROM guitar, bass, keyboard, etc.

## CONNECTION PROCEDURE

1. Make all connections noted in the FUNCTION DESCRIPTIONS.
2. Turn all controls to "half" (12 o'clock) position.
3. Press foot switch into position which the LED indicator is illuminated.
4. Adjust controls as desired, using details listed in the FUNCTION DESCRIPTIONS section of this manual.

## OPERATING CAUTIONS

1. Protect unit from excessive moisture and dust.
2. Unit could be damaged severely if operated with an improper AC line adaptor.
3. When not using effect for a period of time, remove batteries for storage.
4. Weak batteries can cause improper performance of effect unit.
5. To conserve battery life, disconnect input wire from unit.

## SPECIFICATIONS

Power	.....	Battery DC 9 volt (1) Ampeg AC adaptor
Controls	.....	Rate, Width, Color
Function Items	.....	L.E.D. ON/OFF indicator, AC adaptor socket, ON/OFF switch, battery case cover
Jacks	....	Input, Output
Switching System	.....	"Noiseless" Solid state type
Maximum Input	.....	-2dB
Maximum Output	.....	-6dB
Output Impedance	.....	10 Kohms
Weight	....	.370g
Overall Size	.....	.68 (W) x 53 (H) x 120 (D) mm

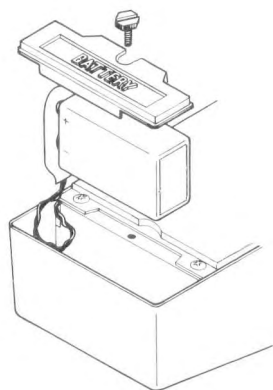
Specifications are subject to change without notice.



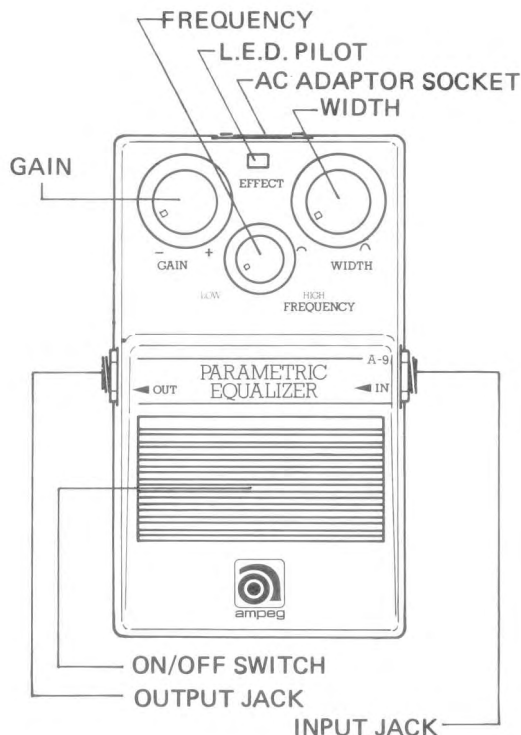
## Preparing Unit for Use

### REPLACEMENT/INSTALLATION OF BATTERY

1. Loosen screw (turn counter-clockwise) and remove battery cover.
2. Replace/Install battery by installing into provided battery terminal clip (terminal clip is polarized to fit only one way).
3. Insert battery into battery case (do not pinch wires) and tighten screw once again.



## PROVIDED FUNCTIONS



## FUNCTION DESCRIPTIONS

### FOOT SWITCH

Turns unit ON and OFF, using solid state (F.E.T.) "quiet" switching method.

### L.E.D.

Provides visual indication of ON/OFF.

### GAIN

This control provides adjustment of accent or volume of the frequency range or tone which has been set by the FREQUENCY control

### WIDTH

Provides an adjustment of the range in which the FREQUENCY control is set. The WIDTH is essentially how many harmonics BELOW and ABOVE the FREQUENCY range which has been selected with the FREQUENCY control.

### FREQUENCY

This control will determine the "center" of the frequency range which is to be accented or modified. Turn LEFT and the frequency is shifted LOWER, turning the control RIGHT will shift the accent or modification to the HIGHER frequencies.

### AC ADAPTOR JACK

Connect an Ampeg Effects AC adaptor jack in the event extra stable power is needed.

### OUT JACK

Connection TO amplifier, mixer, etc.

### IN JACK

Connection FROM guitar, bass, keyboard, etc.

## CONNECTION PROCEDURE

1. Make all connections noted in the FUNCTION DESCRIPTIONS.
2. Turn all controls to "half" (12 o'clock) position.
3. Press foot switch into position which the LED indicator is illuminated.
4. Adjust controls as desired, using details listed in the FUNCTION DESCRIPTIONS section of this manual.

## OPERATING CAUTIONS

1. Protect unit from excessive moisture and dust.
2. Unit could be damaged severely if operated with an improper AC line adaptor.
3. When not using effect for a period of time, remove batteries for storage.
4. Weak batteries can cause improper performance of effect unit.
5. To conserve battery life, disconnect input wire from unit.

## SPECIFICATIONS

Power	... Battery DC 9 volt (1) Ampeg AC adaptor
Controls	... Gain, Width, Frequency
Function Items	... L.E.D. ON/OFF indicator, AC adaptor socket, ON/OFF switch, battery case cover
Jacks	... Input, Output
Switching System	... "Noiseless" Solid state type
Maximum Input	0dB
Maximum Output	... +6dB
Output Impedance	... 470 Ohms
Weight	... 370g
Overall Size	... 68 (W) x 53 (H) x 120 (D) mm

Specifications are subject to change without notice.

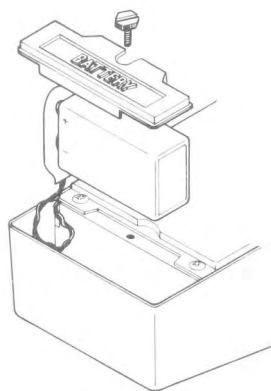




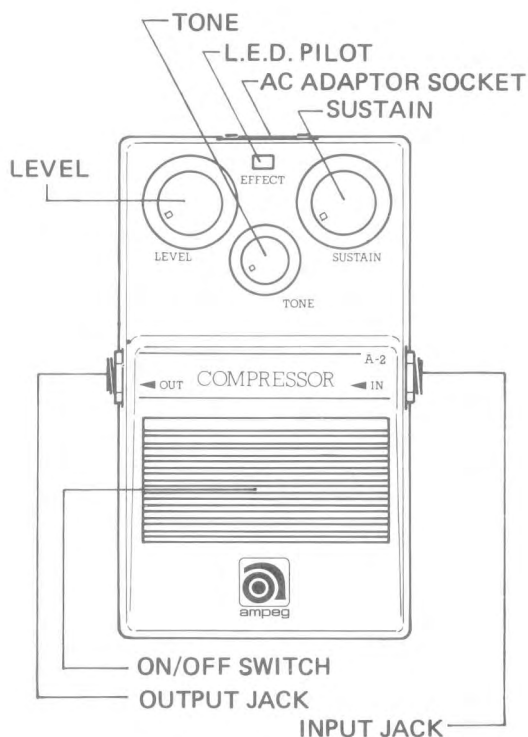
## Preparing Unit for Use

### REPLACEMENT/INSTALLATION OF BATTERY

1. Loosen screw (turn counter-clockwise) and remove battery cover.
2. Replace/Install battery by installing into provided battery terminal clip (terminal clip is polarized to fit only one way).
3. Insert battery into battery case (do not pinch wires) and tighten screw once again.



## PROVIDED FUNCTIONS



## FUNCTION DESCRIPTIONS

### FOOT SWITCH

Turns unit ON and OFF, using solid state (F.E.T.) "quiet" switching method.

### L.E.D.

Provides visual indication of ON/OFF.

### LEVEL

This control will provide a volume adjustment over the output volume which the effect is in the ON position.

### SUSTAIN

Adjust the depth or intensity of compression effect. Turning control RIGHT will increase the attack (Envelope) time.

### TONE

Will add additional "Brilliance" when advanced RIGHT (clockwise).

### AC ADAPTOR JACK

Connect an Ampeg Effect AC adaptor pack in the event extra stable power is needed.

### OUT JACK

Connection TO amplifier, mixer, etc.

### IN JACK

Connection FROM guitar, bass, keyboard, etc.

## CONNECTION PROCEDURE

1. Make all connections noted in the FUNCTION DESCRIPTIONS.
2. Turn all controls to "half" (12 o'clock) position.
3. Press foot switch into position which the LED indicator is illuminated.
4. Adjust controls as desired, using details listed in the FUNCTION DESCRIPTIONS section of this manual.

## OPERATING CAUTIONS

1. Protect unit from excessive moisture and dust.
2. Unit could be damaged severely if operated with an improper AC line adaptor.
3. When not using effect for a period of time, remove batteries for storage.
4. Weak batteries can cause improper performance of effect unit.
5. To conserve battery life, disconnect input wire from unit.

## SPECIFICATIONS

<b>Power</b>	... Battery DC 9 volt (1) Ampeg AC adaptor
<b>Controls</b>	... Level, Sustain, Tone
<b>Function Items</b>	... L.E.D. ON/OFF indicator, AC adaptor socket, ON/OFF switch, battery case cover
<b>Jacks</b>	... Input, Output
<b>Switching System</b>	... "Noiseless" Solid state type
<b>Compression Range/Ratio</b>	... 18dB
<b>Maximum Input</b>	... +6dB
<b>Maximum Output</b>	... -10dB
<b>Output Impedance</b>	... 10 Kohms
<b>Weight</b>	... 370g
<b>Overall Size</b>	... 68 (W) x 53 (H) x 120 (D) mm

Specifications are subject to change without notice.

