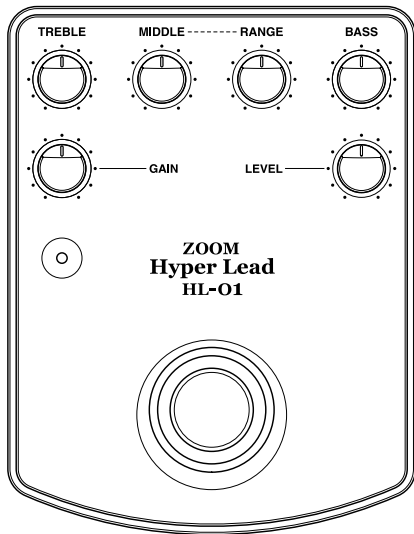




# Hyper Lead HL-01 Operation Manual



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# Features

Thank you for selecting the **ZOOM Hyper Lead HL-01** (hereafter simply called the "**HL-01**"). The HL-01 is a high-performance compact distortion unit developed with input from top-level professional musicians the worldwide. It reflects ZOOM's rich expertise with analog circuitry and has many attractive features.

## ◆ **Smooth and solid high-gain sound**

Newly developed analog triple gain circuit is ideal for a wide range of playing styles and applications. From lead guitar to backing, the HL-01 opens up a world of distortion possibilities. Natural and smooth sounding distortion in the all-important midrange creates impressively solid guitar sound.

## ◆ **3-band equalizer with superb effectiveness**

In addition to the BASS and TREBLE controls, the HL-01 features a parametric midrange control whose turnover point can be adjusted. This gives you full control over the most important frequency range for each instrument, letting you stress a characteristic or reduce overlapping ranges. The TREBLE and BASS controls are tuned to allow spot-on adjustments of high-range sparkle and low-end energy.

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## ◆ **Amazing low-noise design**

Designed from the ground up for optimum performance, the HL-01 uses only strictly selected parts. For an effect without built-in noise reduction, the low noise level of the HL-01 is truly amazing.

## ◆ **Mechanical switch for true bypass**

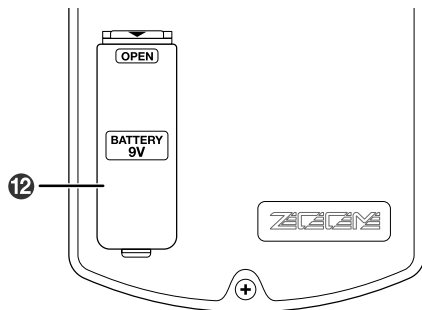
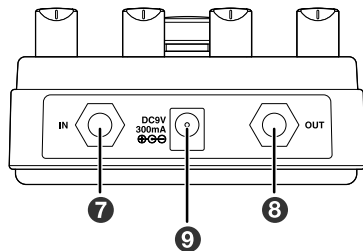
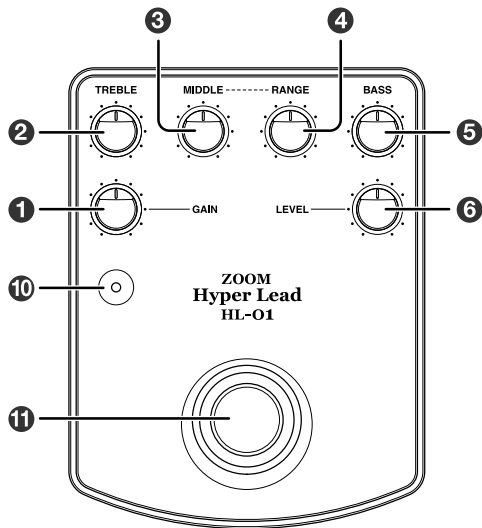
On/off switching is performed using a mechanical foot switch which operates smoothly and gives tactile feedback. In the bypass position, the guitar signal is passed through without any alteration.

## ◆ **Sturdy metal chassis**

The rock-solid case made of aluminum not only looks good, it also can withstand the rigors of use on stage or rough handling during transport. Stability is excellent, ensuring that the unit will not topple over while in use.

# Parts and Functions

This section explains the various parts of the HL-01.



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### ① GAIN control

This control adjusts the distortion gain. Turning it clockwise increases the distortion intensity.

### ② TREBLE control

This control adjusts the high frequency range. Turning the control clockwise makes the sound brighter and sharper.

### ③ MIDDLE control

This control adjusts the middle frequency range. Turning the control emphasizes or attenuates the range selected with the RANGE control (④).

### ④ RANGE control

Adjusts the turnover frequency for the MIDDLE control (③).

### ⑤ BASS control

This control adjusts the low frequency range. Turning the control clockwise makes the sound more solid and heavy.

### ⑥ LEVEL control

This control adjusts the output signal level. Turning the control clockwise increases the volume.

### ⑦ IN jack

This is the input of the unit and it also acts as a

power switch. When you connect the plug of the cable from the guitar, the unit is turned on.

### ⑧ OUT jack

This is the output of the unit. Connect the plug of the cable going to the guitar amplifier or other effect device here.

### ⑨ AC adapter jack

When powering the unit from the AC adapter, insert the plug from the adapter into this jack. Be sure to use only the dedicated AC adapter for the unit (Zoom AD-0006). When the AC adapter is connected, the HL-01 will always be ON, regardless of whether a cable is plugged into the IN jack.

### ⑩ Indicator

Lights up when the HL-01 effect is active. When the remaining battery capacity is getting low, indicator brightness decreases.

### ⑪ Foot switch

Switches the HL-01 effect on and off.

### ⑫ Battery compartment

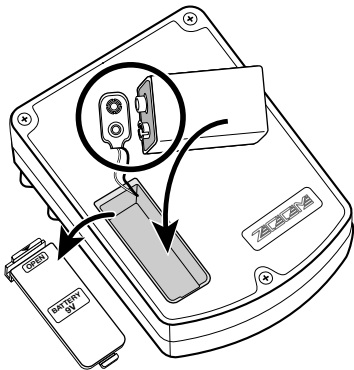
A 9V battery (6F22) can be inserted here.

# Connections

This section explains how to connect the HL-01.

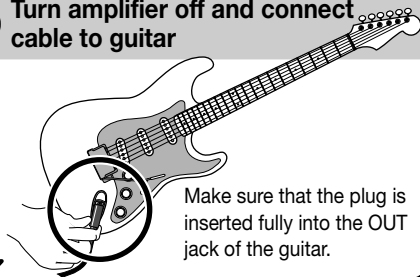
## 1 Open cover of battery compartment and insert battery

Make sure to insert the battery to the connector with correct polarity.



## 2 Turn amplifier off and connect cable to guitar

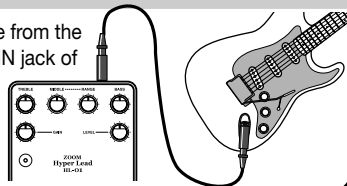
Make sure that the plug is inserted fully into the OUT jack of the guitar.



## 3 Plug cable from guitar into IN jack of HL-01

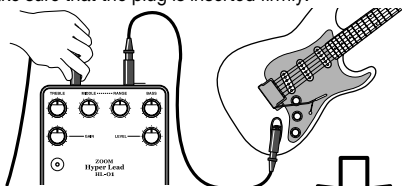
Insert the cable from the guitar into the IN jack of the HL-01.

This turns the HL-01 on.



#### 4 Connect cable to OUT jack of HL-01

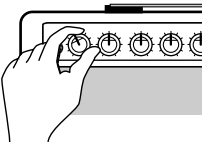
Connect another cable to the OUT jack of the HL-01. Make sure that the plug is inserted firmly.



#### 6 Turn amplifier on and raise volume

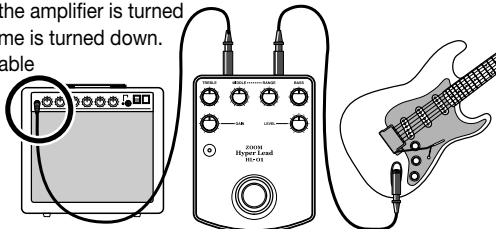
Turn power to the amplifier on, and adjust the volume to a suitable level, using the controls in the following sequence.

- (1) Volume control on guitar
- (2) LEVEL control on HL-01
- (3) Volume control on amplifier



#### 5 Connect output cable to amplifier

Make sure that the amplifier is turned off and the volume is turned down. Then plug the cable from the OUT jack of the HL-01 to the IN jack of the amplifier.



### ATTENTION

**Always follow the above sequence.**

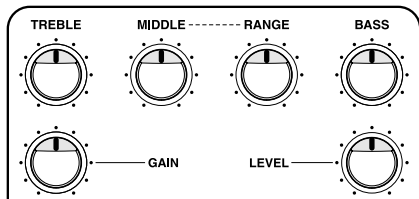
If steps are performed in reverse order, there is a danger of damage to the amplifier or speakers.

# Sample Settings

This section shows some actual setting examples.

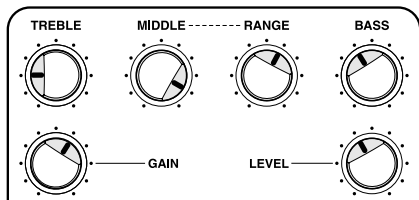
\* When experimenting, you should set the gain and drive controls on the amplifier so that it does not distort excessively.

\* Use the LEVEL control on the HL-01 to compensate for the level difference between the "effect on" and bypass condition.



## ■ Almighty drive sound

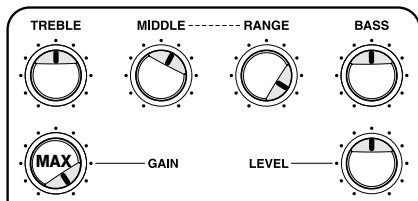
With all controls in the center position, the HL-01 provides a standard drive sound suitable for many applications, ranging from lead solos to rhythm backing.



## ■ "Half pedal" sound with prominent midrange

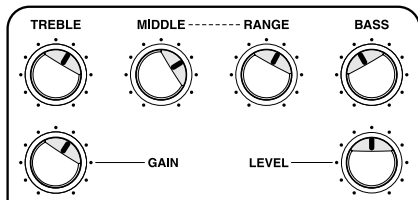
With the TREBLE and BASS controls turned slightly down and the MIDDLE control raised a bit, the midrange is emphasized. This results in a peaky sound similar to pedal wah in about midway position.





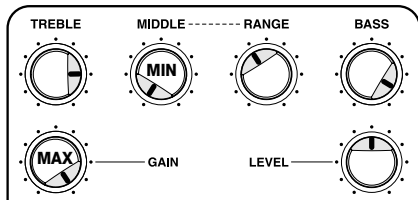
## ■ Fat sound

This is a heavy distortion sound achieved by turning the GAIN control all the way up and slightly raising the midrange. Even with deep distortion, the sound will stay stable and well defined. The fat sound is suited for riffs and rhythm guitar. Adjust the MIDDLE and RANGE controls according to the characteristics of the instrument.



## ■ Fast response lead sound

These settings are great for quick finger work. With the BASS control turned slightly down and the TREBLE control slightly up, you get a clear, distinct sound suitable for picking solos. Adjust the TREBLE control according to the characteristics of the instrument. To get a more crunchy character, turn down the GAIN control.



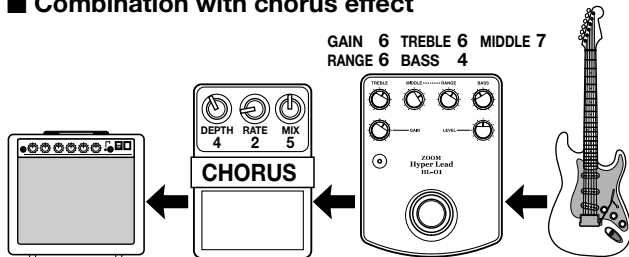
## ■ Glitter midrange

Raising the TREBLE and BASS controls and cutting the midrange gives a glittery sound, great for rhythm guitar or power chords. You can use the RANGE control to fine-tune the effect.

# Connection Examples With Compact Effects

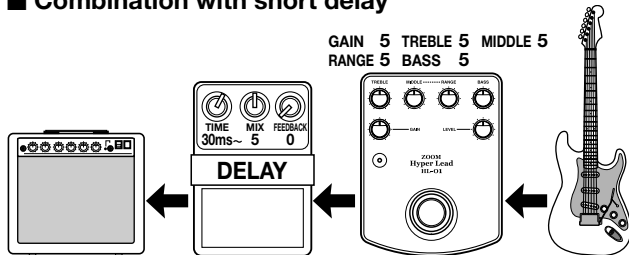
This section shows how to use the HL-01 together with other compact effect devices.

## ■ Combination with chorus effect



In this example, the chorus uses a light modulation (depth) setting at a fairly slow rate (speed), to achieve a light, airy sound. Make sure not to set the chorus modulation too high. Guitar solos and arpeggios in LA rock style sound great with this setup.

## ■ Combination with short delay

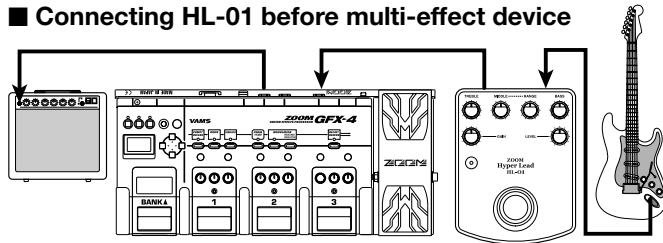


Using a single delay with short delay time can give more body to the sound. A delay time setting of about 30 to 40 milliseconds is suitable, and the level of the delay sound should be slightly lower than the level of the original sound. This setup is good for riffs and solos.

# Connection Examples With Multi-Effects

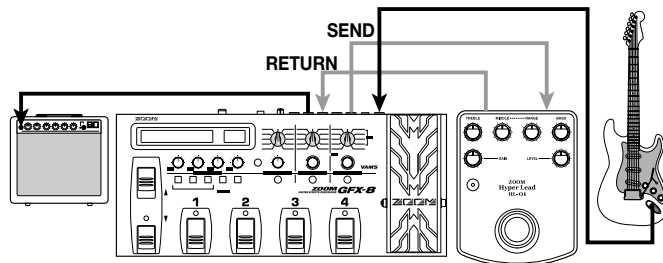
This section shows how to use the HL-01 together with multi-effect devices such as the ZOOM GFX-4 or GFX-8.

## ■ Connecting HL-01 before multi-effect device



In this example, the connection sequence is HL-01 → multi-effect → amplifier. Distortion is produced by the HL-01, and distortion effects of the multi-effect device are bypassed.

## ■ Using send/return loop of multi-effect



By connecting the HL-01 in the send/return loop of a multi-effect device such as the ZOOM GFX-8, the HL-01 can be used as if it were a part of the other device. You can switch the HL-01 on and off using patch programs of the multi-effect.

# Troubleshooting

If there seems to be a problem with the unit, check the following points first.

## ◆ No sound.

- Are connections to the IN and OUT jacks reversed?  
Check the connections.
- Is the battery exhausted?  
Insert a fresh battery.
- Is the AC adapter connected?  
Make sure that the AC adapter is connected correctly.
- Is guitar or amplifier volume or LEVEL control of HL-01 turned down?  
Raise the volume.

## ◆ Noise is heard.

- Are several distortion effects used in series?  
Excessive compressor settings can also result in

noise. Turn on only the currently used devices.

- Is the cable of good quality?  
Low-quality cables can cause noise. Use a short, good-quality cable.
- Is the unit used in the vicinity of a computer monitor, refrigerator, fluorescent lamp, motor, or similar device?  
The guitar or cable can pick up noise from such devices. In case of problems, increase the distance to such devices.
- Is an AC adapter other than the specified type used?  
Be sure to use only the dedicated AC adapter (AD-0006).

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### ◆ **Battery gets used up very quickly.**

- Is a plug inserted in the IN jack?

Power to the HL-01 gets turned on when a plug is inserted in the IN jack. In this condition, current is drawn from the battery regardless of whether the effect is switched on or off. When not using the unit, be sure to disconnect the plug from the IN jack.

- Is a manganese battery being used?

The use of an alkaline battery rather than manganese is recommended. The initially supplied battery is for checking only and may have a short service life. When mounting the HL-01 on an effect board or similar, powering it with the AC adapter (AD-0006) is recommended.

### ◆ **Distortion is not strong enough. Sound is not clear.**

- Are controls on HL-01 and guitar set correctly?

Turn up the GAIN control and the TREBLE, MIDDLE, RANGE, or BASS control on the HL-01. Try to fully turn up the level and tone controls of the guitar.

- Is another effect device being used?

When using an effect device between the HL-01 and the guitar, check the battery, volume, and cable of that device.

### ◆ **Cannot produce the desired sound.**

- Are controls set to extreme positions?

First set all controls to center and start with slight adjustments.

- Is the playing technique suitable?

The audible result of using the HL-01 depends on various different factors. Hardware such as effect devices, guitar, and amplifier of course must be considered, but technique such as picking and fingering are also important. Try varying your style to check the effect.

# Specifications

<b>Controls</b>	Foot switch	
	GAIN control	LEVEL control
	TREBLE control	BASS control
	MIDDLE control	RANGE control
<b>Input</b>	Standard monaural phone jack	
	Rated input impedance: 470 kilohms	
	Rated input level: -20 dBm	
<b>Output</b>	Standard monaural phone jack	
	Rated output impedance: 10 kilohms or more	
	Rated input level: +10 dBm	
<b>Power requirements</b>	Battery (6F22, 9 V) or AC adapter AD-0006 (9 V DC, 300 mA, center minus)	
<b>Battery life</b>	Continuous operation: approx. 26 hours (alkaline) or 8 hours (manganese)	
<b>External Dimensions</b>	127 (D) x 98 (W) x 48 (H) mm	
<b>Weight</b>	720 g (including battery)	
<b>Supplied accessories</b>	Instruction manual	
	Warranty card	* 0 dBm = 0.775 Vrms
	Battery (6F22, 9V)	* Design and specifications subject to change without notice.

# Usage Precautions

## ■ Electrical interference

For safety considerations, the HL-01 has been designed to provide maximum protection against the emission of electromagnetic radiation from inside the device, and protection from external interference. However, equipment that is very susceptible to interference or that emits powerful electromagnetic waves should not be placed near the HL-01, as the possibility of interference cannot be ruled out entirely.

## ■ Cleaning

Use a soft, dry cloth to clean the HL-01. If necessary, slightly moisten the cloth. Do not use abrasive cleanser, wax, or solvents (such as paint thinner or cleaning alcohol), since these may dull the finish or damage the surface.

**Please keep this manual in a convenient place for future reference.**

# Safety Precautions

In this manual, symbols are used to highlight warnings and cautions for you to read so that accidents can be prevented. The meanings of these symbols are as follows:



This symbol indicates explanations about extremely dangerous matters. If users ignore this symbol and handle the device the wrong way, serious injury or death could result.



This symbol indicates explanations about dangerous matters. If users ignore this symbol and handle the device the wrong way, bodily injury and damage to the equipment could result.

Please observe the following safety tips and precautions to ensure hazard-free use of the HL-01.

## About power



- Since power consumption of this unit is fairly high, we recommend the use of an AC adapter whenever possible. When powering the unit from a battery, use only an alkaline type.

## AC adapter operation

- Be sure to use only an AC adapter which supplies 9 V DC, 300 mA and is equipped with a "center minus" plug (Zoom AD-0006). The use of an adapter other than the specified type may damage the unit and pose a safety hazard.
- Connect the AC adapter only to an AC outlet that supplies the rated voltage required by the adapter.
- When disconnecting the AC adapter from the AC outlet, always grasp the adapter itself and do not pull at the cable.
- If the unit is not to be used for a long time, disconnect the AC adapter from the outlet.

## Battery operation

- Use a generic 9V dry battery (6F22) (alkaline or manganese).
- The HL-01 cannot be used for recharging.
- Pay close attention to the labeling of the battery to make sure you choose the correct type.
- If the HL-01 is not to be used for an extended period of time, remove

the battery from the unit.

- If batteries leakage has occurred, wipe the battery compartment and the battery terminals carefully to remove all remnants of battery fluid.
- While using the unit, the battery compartment cover should be closed.

## Environment



Avoid using your HL-01 in environments where it will be exposed to:

- Extreme temperature
- High humidity or moisture
- Excessive dust or sand
- Excessive vibration or shock

## Handling



- Since the HL-01 is a precision electronic device, avoid applying excessive force to the controls. Do not operate the keys or controls with your foot.
- Make sure that no foreign objects (coins or pins etc.) or liquids can enter the unit.
- Be sure to turn the power to all equipment off before making connections.
- Before moving the unit, turn the power off, and disconnect all cables and the AC adapter.

## Alterations



Never open the case of the HL-01 or attempt to modify the product in any way since this can result in damage to the unit.



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