Maxon®

User's Guide

AD9Pro ANALOG DELAY

VOP9 VINTAGE OVERDRIVE PRO

OSD9 OVERDRIVE SOFT DISTORTION

OOD9 ORGANIC OVERDRIVE

◆SEFETY PRECAUTIONS◆

Be sure to read these precautions before using this product in order to insure safe operation of the equipment.
Keep this User's Guide on hand for future reference whenever you may need it.

◆安全上のご注意◆

機器を安全にご使用いただくため、ご使用前にこの取扱説明書を必ずお読みください。
そのあとは大切に保管し、必要になったときにお読みください。

●SAFETY PRECAUTIONS● Please be sure to observe.

The safety precautions listed below are intended to ensure your safety whenever you use the equipment.

■Precaution text is generally accompanied by the following symbols to alert you and others to the risk of personal and material injury that may be caused if the precaution is ignored.

⚠ Warning This symbol indicates an item that can result in death or serious personal injury if ignored.

⚠ Caution This symbol indicates an item that can result in serious personal injury or material damage if ignored.

■Precaution text is generally accompanied by the following icons to alert you and others to things you should or should not do.

····A triangle indicates something you should be careful about.

····A circle with a line through it indicates something you should not do.

····A black circle indicates something you must do.

⚠ Warning

NEVER OPEN THE CASE

・Never try to remove the bottom cover and to modify the equipment.《Internal components of the equipment use high voltages, and exposing them creates the danger of fire and electrical shock.》

STOP THE USE IN CASE OF A PROBLEM

・Stop using the equipment whenever you notice smoke or a strange odor coming from it.

・Contact your original dealer or nearest authorized service provider for service.

⚠ Warning

BEWARE OF HEAT BUILT UP

・Never cover AC adaptor with cloth or other objects.
《Built up heat creates the danger of the equipment deformation and fire.》

⚠ Caution

USE SPECIFIED AC ADAPTOR ONLY

・Be sure to use only the AC adaptor specified in this User's Guide.Use of non-specified AC adaptors creates the danger of fire and electrical shock.

UNPLUGGING AC ADAPTOR

・Never try to unplug AC adaptor while your hands are wet. Doing so creates the danger of electrical shock.
・When unplugging AC adaptor from the power source, be sure to grasp the adaptor. Never pull on the cord. Doing so can damage the power cord and create the danger of fire and electrical shock.

WATER, HUMIDITY, DUST AND HIGH TEMPERATURES

・Never leave or use the equipment in bathrooms, the outdoors or other areas subject to water, high humidity, dust and high temperature. Doing so creates the danger of fire and electrical shock.

LEAVING THE EQUIPMENT UNATTENDED

・Whenever leaving the equipment unattended for long periods, be sure to unplug AC adaptor from the power source.If not, there is a danger of fire.

AD9Pro Analog Delay

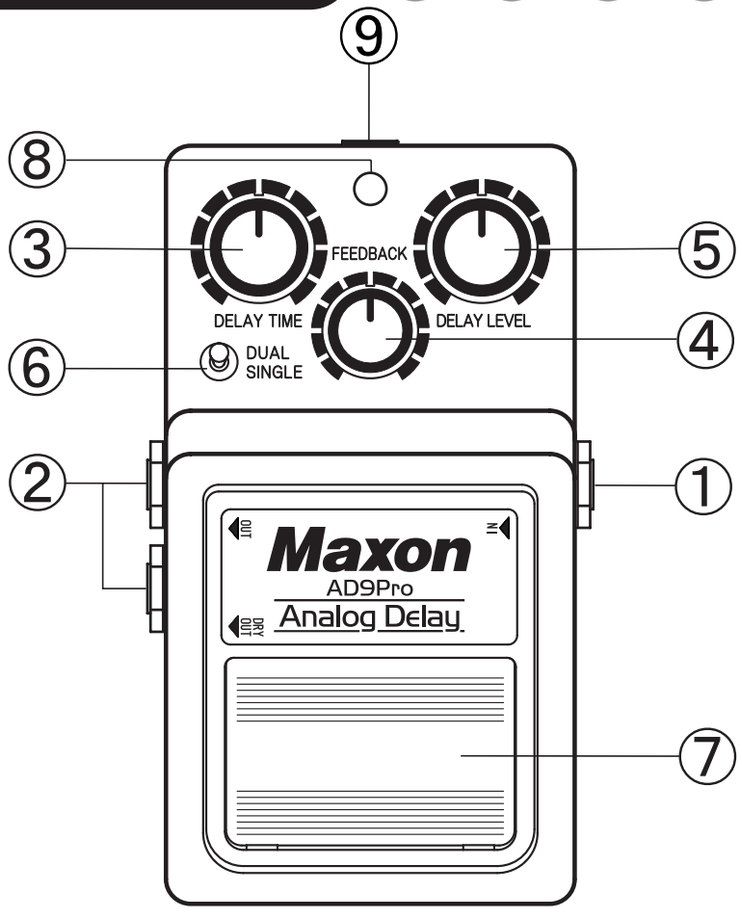
- A pure and crystal-clear analog delay with Maxon BBD IC (MC4107D). AD9Pro features up to 450mSec delay time with 4 pieces of MC4107D. With the world's first RMS level sensor and companding noise reduction system, transparent analog delay sound is finally available in a stompbox format.
- With AD9Pro, typical aliasing and clock noises in analog delay are minimized. Dynamic range was improved by 18dB and maximum input level by 12dB, compared with AD9. Improved low range response yields bold sound. Excellent balance between low and high range offers clear and firm delay sound without spoiling warm sound of analog delay.
- Single Head/Dual Head Mode is switchable with newly added tape echo multi-head simulation function. In Dual Head Mode, midstream delay signal (which is taken from the middle of BBD delay circuit) is added into normal delay signal. This feature provides extensive delay

FEATURES AND CONTROLS

① IN (input jack)
Input jack to connect to the output of guitar, other effects or related equipment. The product automatically turns on when a plug is inserted into this jack. When not in use, disconnect plug from input jack to preserve battery life.

② OUT/DRY OUT (output jacks)
Output jacks to connect to input of amplifier or other effects. The DRY OUT outputs a dry signal only. The OUT, when used by itself, outputs a mixture of dry and effect signals and, when used with the DRY OUT connected as well, it outputs a delayed signal only.

③ DELAY TIME
Controls delay time from 20mSec. to 450mSec. Turn it clockwise for longer delay time.



effects such as tape echo multi-head simulation and ambience effect of a concert hall.

- True Bypass Switching on both outputs with 4PDT mechanical switch. No alteration to tone of dry signal when effect is bypassed.
- Two-way power operation, using 9V alkaline battery or optional AC adaptor. (9V alkaline battery: more than 7 hours, 9V manganese battery: more than 2 hours) Easy-access, tool-free battery compartment.
- AD9Pro uses a stabilized DC to DC converter to bump up to 9V (plus and minus 4.5V). Battery voltage drop and fluctuation of AC power source do not affect the tone and function.
- AD9Pro uses a stabilized DC to DC converter to bump up to 9V (plus and minus 4.5V). Battery voltage drop and fluctuation of AC power source do not affect the tone and function.

④ FEEDBACK
Controls the number of repeats from only one at the minimum setting to infinite repeats in the fully clockwise position. (The fully clockwise position at a short delay time setting causes a self-oscillation, which you can cut off by simply turn down this volume.).

⑤ DELAY LEVEL
Controls the level of delay signal. The delay level is reduced to zero in the fully counterclockwise position and is turned up to match the volume of the dry signal in the fully clockwise position.

⑥ SINGLE/DUAL MODE (multi-head mode switch)
Switch for single delay/dual delay. In Dual Mode, midstream delay signal (which is taken from the middle of BBD delay circuit) is added into normal delay signal. Provides extensive delay effects such as tape echo multi-head simulation and ambience effect of a concert hall.

⑦ FOOTSWITCH
Switch for effect on/off. Stepping on this switch alternately turns effects on and off.

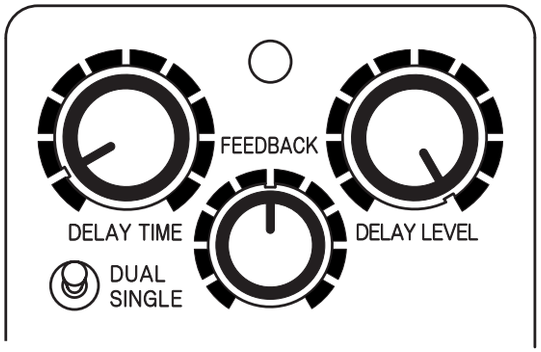
⑧ LED INDICATOR
This indicates the bypass/effect status and battery condition. It lights when plug is inserted to input jack and effect is on.
No LED light indicates the battery is low or not installed. In this case replace the battery.

⑨ DC INPUT (power input jack)
A jack for connection of external power supply to effect. Be sure to use the correct Maxon AC adaptor.

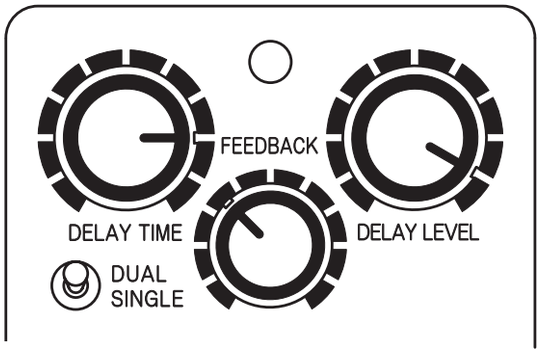
⚠ Turn down amplifier's volume to the minimum before connecting AC adaptor or DC plug.

SAMPLE SETTING

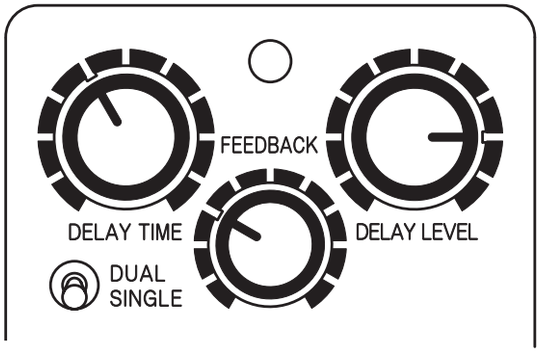
Please visit **www.maxon.co.jp** to listen to audio samples.



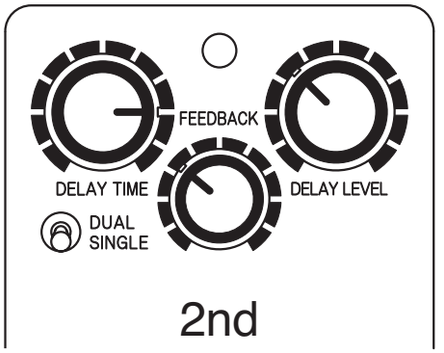
No.1 Ambient Delay (G: Les Paul STD/ PU: Hum, Amp: Clean)
Provides ambience sound with DUAL mode switch. Adjust FEEDBACK to get the reverb effect.

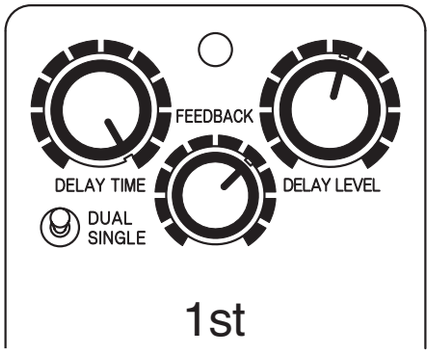


No.3 Rhythmic Delay (G: Combat/PU: Hum, Amp: Crunch)
Keeps the pace of delay time with riff tempo. Delay follows the riff tempo.



No.2 Slapback Delay Riff (G: Les Paul STD/PU: Hum, Amp: Clean)
Distinctive pattern of delay effect. (Simple short delay is added to mute phrase.) Adjust FEEDBACK moderately.

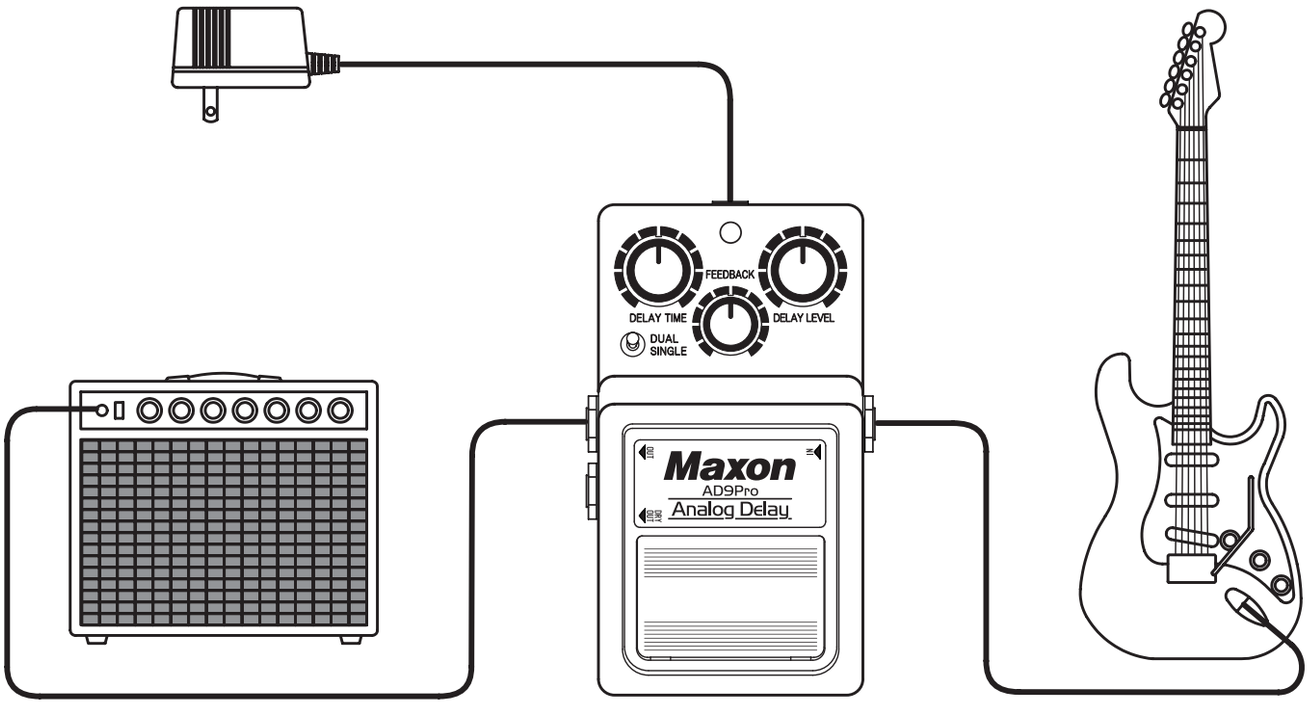




No.4 Dual Delay + Feedback (G: Les Paul STD/PU: Hum, Amp: Drive)
1st unit's delay is long with DUAL mode. 2nd unit's delay adds soundscape. You can make feedback by turning up the 2nd unit's FEEDBACK knob.

(Amp: Marshall AVT-150)

CONNECTION DIAGRAM



SPECIFICATIONS

Input Impedance	: 500k ohms
Output Impedance	: 10k ohms or less
Residual Noise	: -100dB or less (IHF-A)
Delay Time	: 20mSec – 450mSec
Equivalent Input Noise	: -116 dB or less (IHF-A)
Control	: DELAY TIME, FEEDBACK, DELAY LEVEL
Switch	: SINGLE/DUAL MODE, EFFECT
Operating Voltage	: 9V
Power Consumption	: DELAY TIME MIN 39mA/DC.9V 38mA/DC.10V
Dimensions	: 74(W) x124(D) x 54(H) mm
Weight	: 580g (including battery)
Battery	: 9V battery (6LR61 or 6F22) x 1 or Maxon AC adaptor
Battery life	: manganese dry battery more than 2 hours 25deg C / 77deg F (Panasonic 6F22NB)
	: alkaline dry battery more than 8 hours 25deg C / 77deg F (Panasonic 6LR61G)
Options	: Maxon AC adaptor

* Specifications are subject to change without notice.

VOP9 Vintage Overdrive Pro

- Vintage Overdrive Pro VOP9 adds natural and warm nuance to your guitar sound like that of a good vintage amp. Specially designed circuit reacts precisely to every fingering or picking nuance with minimal compression.
- VOP9 combines functions of clean booster and overdrive. With Drive Control level set to minimum, the overdrive circuit works as a -12dB attenuator, and the clean boost circuit as a 6dB booster to create clean and flat boost sound. When turning up the drive level control, signal from overdrive circuit is blended in against clean signal until full overdrive tone is reached at Drive Control maximum level setting.
- JRC NJM4558D IC op-amp offers low-noise overdrive sound. The overdrive circuit is the same as OD9, using a diode in op-amp negative feedback loop.
- Operating voltage is switchable via an internal DIP switch accessible through the unit's

FEATURES AND CONTROLS

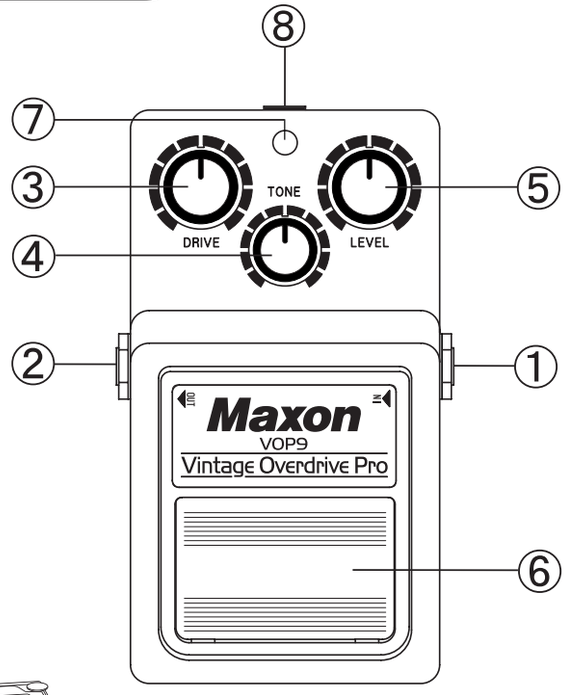
① IN (input jack)
Input jack to connect to the output of guitar, other effects or related equipment. The product automatically turns on when a plug is inserted into this jack. When not in use, disconnect plug from input jack to preserve battery life.

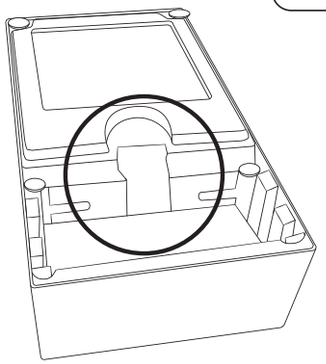
② OUT (output jack)
Output jack to connect to input of amplifier or other effects.

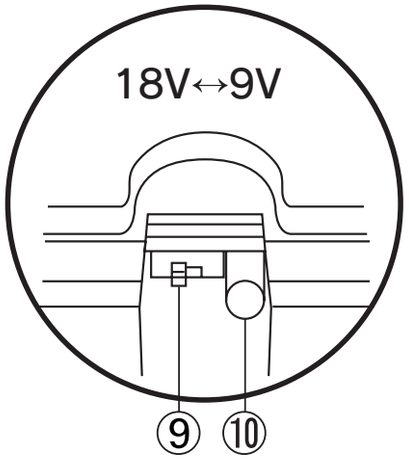
③ DRIVE
This controls overdrive level. Turn it clockwise for more distortion.

④ TONE
This controls the amount of high frequencies. Turn it clockwise for more treble and counter-clockwise for less treble.

⑤ LEVEL
This controls output level of effected signal. Typically output levels of both normal signal and effected signal should be adjusted to equal levels.







battery compartment. Improved operation at 18 volt setting eliminates unintentional distortion caused by high-output pickups and active electronics VOP9, exemplifies its overdrive performance when connecting to tube amp with high dynamic input range.

- True Bypass Switching with 4PDT mechanical switch. No tone changes when switching bypass and effect.
- Two-way power operation, using 9V alkaline battery or optional AC adaptor. (9V alkaline battery: more than 20 hours at plus/minus 4.5V) Easy-access, tool-free battery compartment.
- VOP9 uses a stabilized DC to DC voltage converter to bump 9V (plus and minus 4.5V) up to 18V (plus and minus 9V). Battery voltage drop and fluctuation of AC power source do not affect the tone and function.

⑥FOOTSWITCH

Switch for effect/bypass. Stepping on this switch alternately turns effects on and off.

* Effect turns on when you depress the switch and effect turns off when you depress and release the switch.

⑦LED INDICATOR

This indicates the effect/bypass status and battery condition. It lights when plug is inserted to input jack and effect is on. No LED light indicates the battery is low or not installed. In this case replace the battery.

⑧DC INPUT (power input jack)

Jack for connection of external power supply to effect. Be sure to use the correct Maxon AC adaptor.

⚠ Turn down amplifier's volume to the minimum before connecting AC adaptor or DC plug.

⑨OPERATING VOLTAGE SWITC

Slide it to right side for 9V (±4.5V) and left side for 18V (±9V).

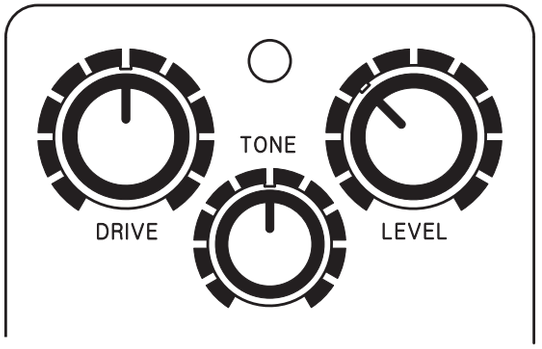
* Turn down amplifier's volume to the minimum before sliding this switch

⑩INTERNAL LED INDICATOR

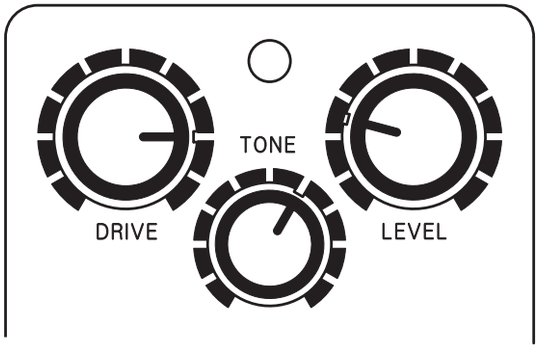
This indicates the status of operating voltage. It lights at 9V (±4.5V). No LED light indicates the operating voltage is 18V (±9V).

SAMPLE SETTING

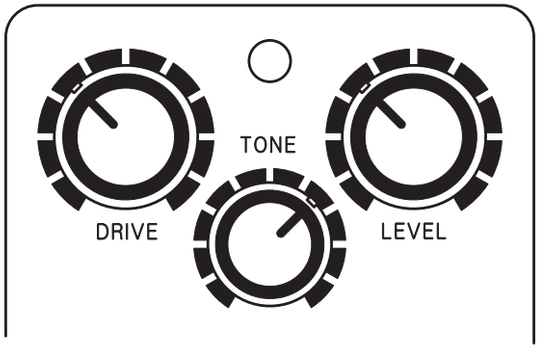
Please visit **www.maxon.co.jp** to listen to audio samples.



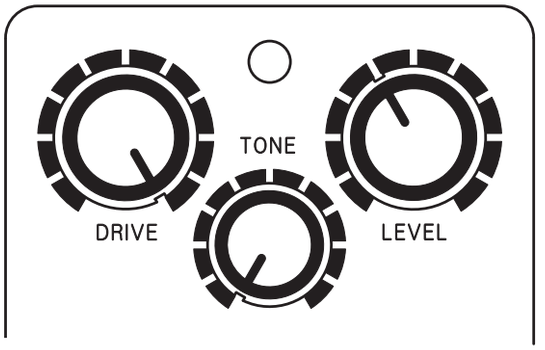
No.1 Vintage Warmth (G: Godin SA/ PU: Single, Amp: Clean)
Makes half tone with Single PU deep and powerful. Natural and well-balanced sustain is available.



No.3 70's Overdrive (G: Les Paul/PU: Hum, Amp: Crunch)
Smooth lead tone and crisp bucking with Humbucker front position. Guitar tone comes out straightforward.

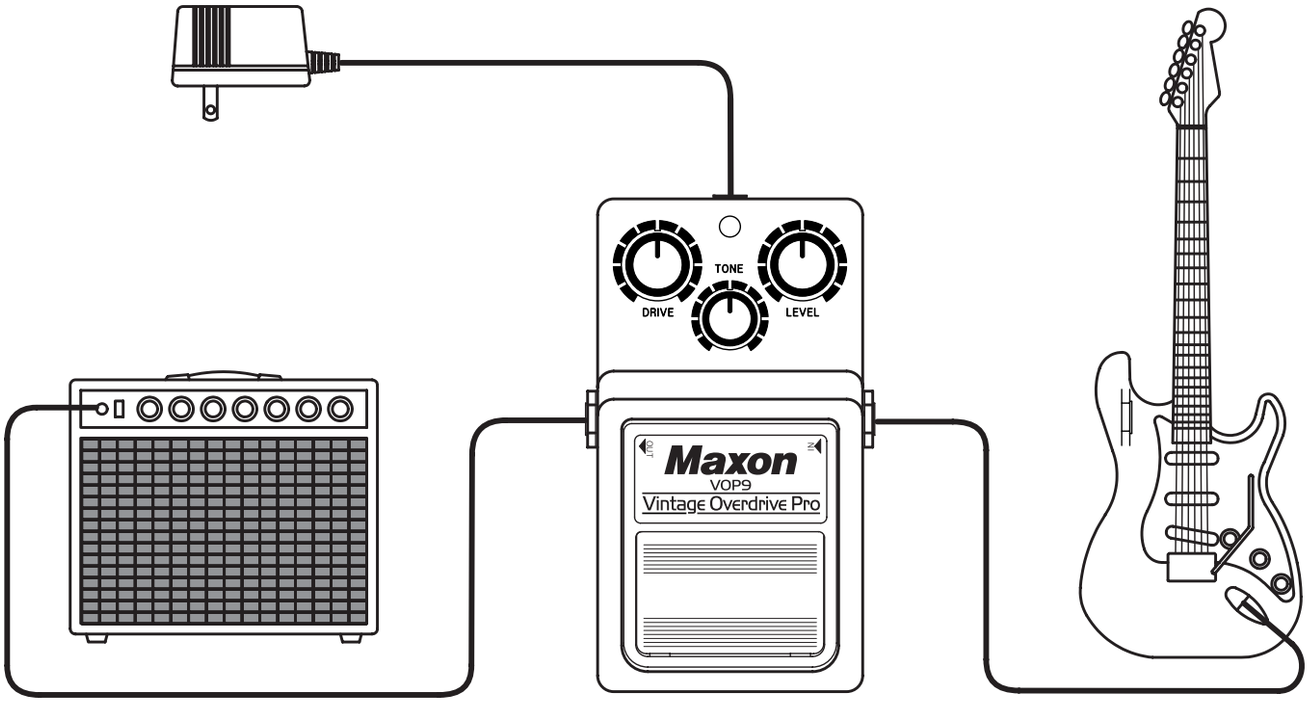


No.2 Powered Crunch (G: Combat TE warm/PU: Hum, Amp: Crunch)
Boost setting. Simple amp crunch sound is boosted straight through VOP9's mild overdrive sound.



No.4 Full Drive (G: Combat/PU: Hum, Amp: Drive)
Full setting of drive level. Adds expressive sustain and power to amp drive sound. Provides controllable distortion even at full setting.

CONNECTION DIAGRAM



SPECIFICATIONS

Input Impedance	: 500k ohms
Output Impedance	: 10k ohms or less
Maximum Gain	: 46dB (IHF-A)
Equivalent Input Noise	: -112 dB or less (IHF-A)
Control	: DRIVE, TONE, LEVEL 18V (±9V) /9V(±4.5V) switch
Operating Voltage	: 18V(±9V)/ 9V(±4.5V)
Power Consumption	: 30mA/9V, 28mA/10V at operating voltage 18V (±9V)
	: 23mA/9V, 24mA/10V at operating voltage 9V (±4.5V)
Dimensions	: 74(W) x 124(D) x 54(H) mm
Weight	: 580g (including battery)
Battery	: 9V battery (6LR61 or 6F22) x 1 or Maxon AC adaptor
Battery life	: manganese dry battery ±9V 3.5 hours 25deg C / 77deg F (Panasonic 6F22NB)
	: manganese dry battery ±4.5V 8 hours 25deg C / 77deg F (Panasonic 6F22NB)
	: alkaline dry battery ±9V 10 hours 25deg C / 77deg F (Panasonic 6LR61G)
	: alkaline dry battery ±4.5V 20 hours 25deg C / 77deg F (Panasonic 6LR61G)
Options	: Maxon AC adaptor

* Specifications are subject to change without notice.

OSD9 Overdrive Soft Distortion

- "Choose Maxon for distortion." People often said that for the legendary overdrive OD880 swept the music scene in 1977 – 1980's. OSD9 is an updated version of original Maxon OD880 Overdrive/Soft Distortion.
- OSD9 has two controls like OD880. Creates natural, soft and warm distortion like the sound of a tube amplifier.
- Original UA741 op-amp installed for overdrive circuit offers low-noise overdrive sound. OSD9 has a passive type distortion circuit which differs from OD808/OD9.
- OSD9 is most effective with tube amp, using like a booster.

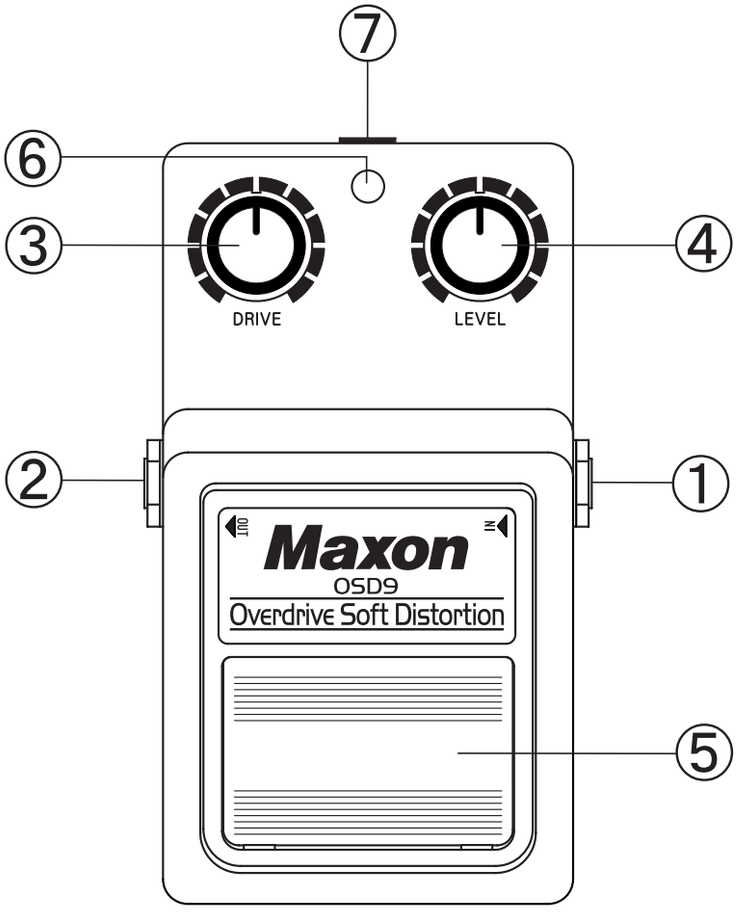
FEATURES AND CONTROLS

① IN (input jack)
Input jack to connect to the output of guitar, other effects or related equipment. The product automatically turns on when a plug is inserted into this jack. When not in use, disconnect plug from input jack to preserve battery life.

② OUT (output jack)
Output jack to connect to input of amplifier or other effects.

③ DRIVE
This controls overdrive level. Turn it clockwise for more distortion.

④ LEVEL
This controls output level of effected signal. Typically output levels of both normal signal and effected signal should be adjusted to equal levels.



- True Bypass Switching with 4PDT mechanical switch. No tone changes when switching bypass and effect.
- Two-way power operation, using 9V alkaline battery or optional AC adaptor. (9V alkaline battery: more than 34 hours, 9V manganese battery: more than 17 hours) Easy-access, tool-free battery compartment.
- A stabilized DC to DC converter constantly provides stable DC9V power. Battery voltage drop and fluctuation of AC power source do not affect the tone and function.

⑤FOOTSWITCH

Switch for effect/bypass. Stepping on this switch alternately turns effects on and off.

* Effect turns on when you depress the switch and effect turns off when you depress and release the switch.

⑥LED INDICATOR

This indicates the effect/bypass status and battery condition. It lights when plug is inserted to input jack and effect is on. No LED light indicates the battery is low or not instal-

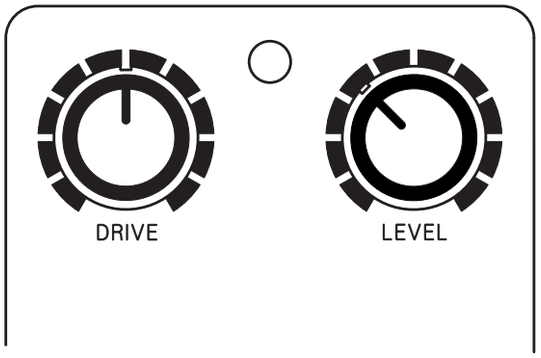
⑦DC INPUT (power input jack)

Jack for connection of external power supply to effect. Be sure to use the correct Maxon AC adaptor.

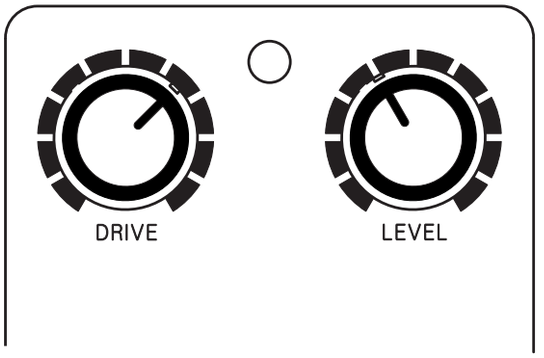
⚠ Turn down amplifier's volume to the minimum before connecting AC adaptor or DC plug.

SAMPLE SETTING

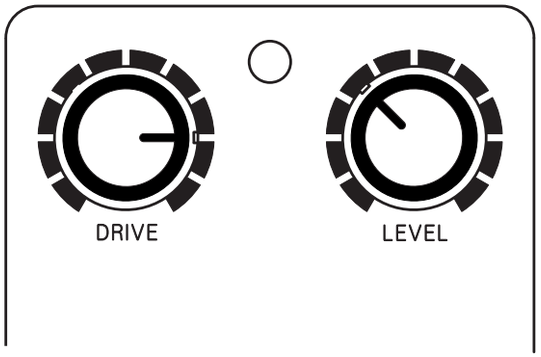
Please visit **www.maxon.co.jp** to listen to audio samples.



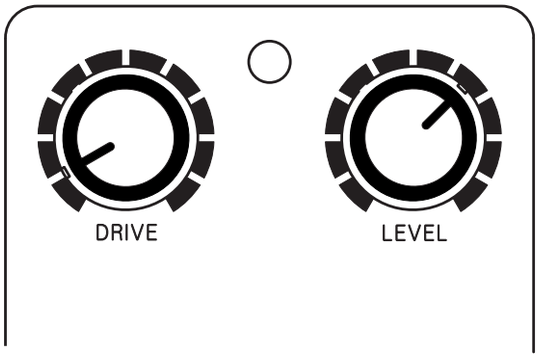
No.1 Tube Crunch (G: Godin/PU: Single, Amp: Crunch)
Adds small vintage amp-like sound and distortion, retaining single PU tone.



No.3 OSD Boost (G: Combat/PU: Hum, Amp: Crunch)
Adds bold distortion into amp crunch sound. Overall distortion has distinct characteristic.

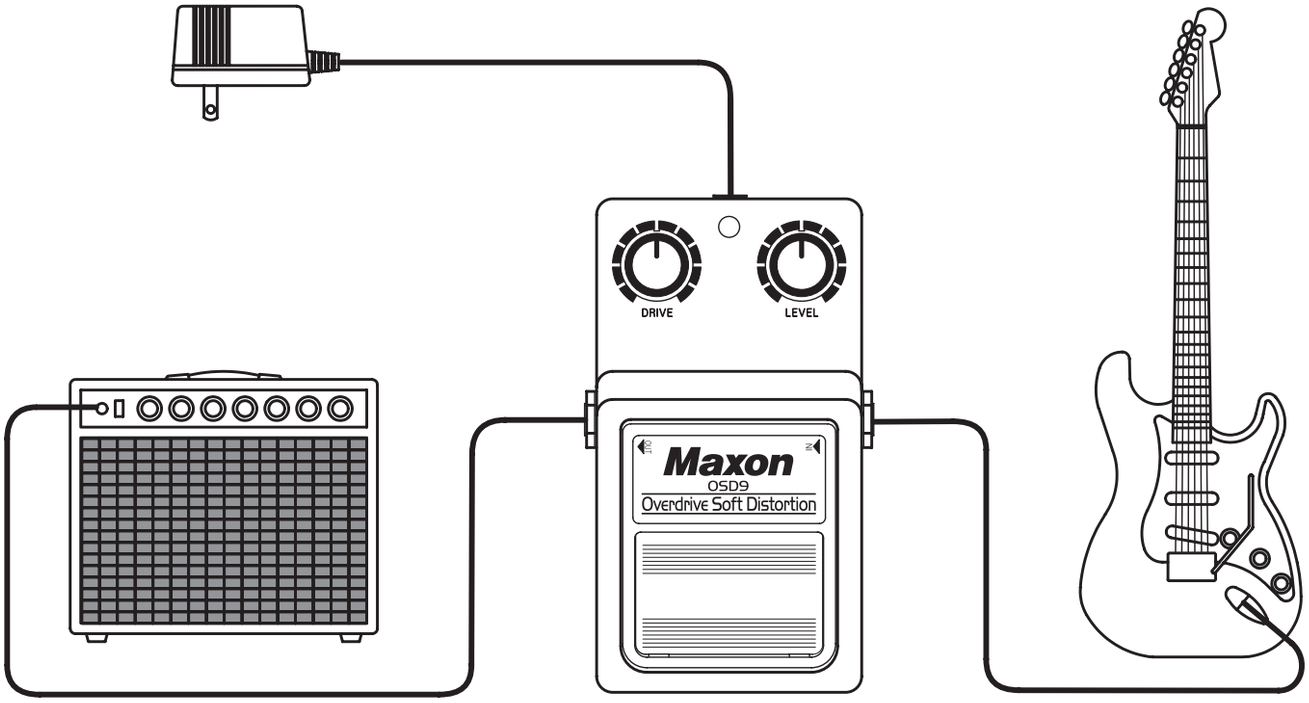


No.2 Fat Distortion (G: Godin/PU: Single, Amp: Crunch)
Changes clean sound of amp into powerful drive sound in an instant. Fat distortion is the distinctive characteristic of OSD9.



No.4 Fat Blues (G: Combat/PU: Hum, Amp: Crunch)
Makes amp sound fat and warm even at moderate overdrive level. Unique fat tone.

CONNECTION DIAGRAM



SPECIFICATIONS

Input Impedance	: 500k ohms
Output Impedance	: 10k ohms or less
Maximum Gain	: 41.5dB (700Hz)
Equivalent Input Noise	: -107dB or less (IHF-A)
Control	: DRIVE, LEVEL
Operating Voltage	: 9V
Power Consumption	: 14mA/DC 9V, 14mA/DC 10V
Dimensions	: 74(W) x 124(D) x 54(H) mm
Weight	: 580g (including battery)
Battery	: 9V battery (6LR61 or 6F22) x 1 or Maxon AC adaptor
Battery life	: manganese dry battery 17 hours 25deg C / 77deg F (Panasonic 6F22NB)
	: alkaline dry battery 34 hours 25deg C / 77deg F (Panasonic 6LR61G)
Options	: Maxon AC adaptor

* Specifications are subject to change without notice.

OOD9 Organic Overdrive

- Updated version of very first Maxon overdrive, OD880.
- Overdrive sound from post-integration circuit smoothly changes according to input level, offering highly dynamic response to picking technique. Creates mild and warm overdrive like that of a tube amplifier.
- Industry-standard op-amp, JRC NJM4558D offers low-noise overdrive sound. Employs a passive type overdrive circuit which differs from OD808/OD9.
- OOD9 is most effective with tube amp, using like a booster.

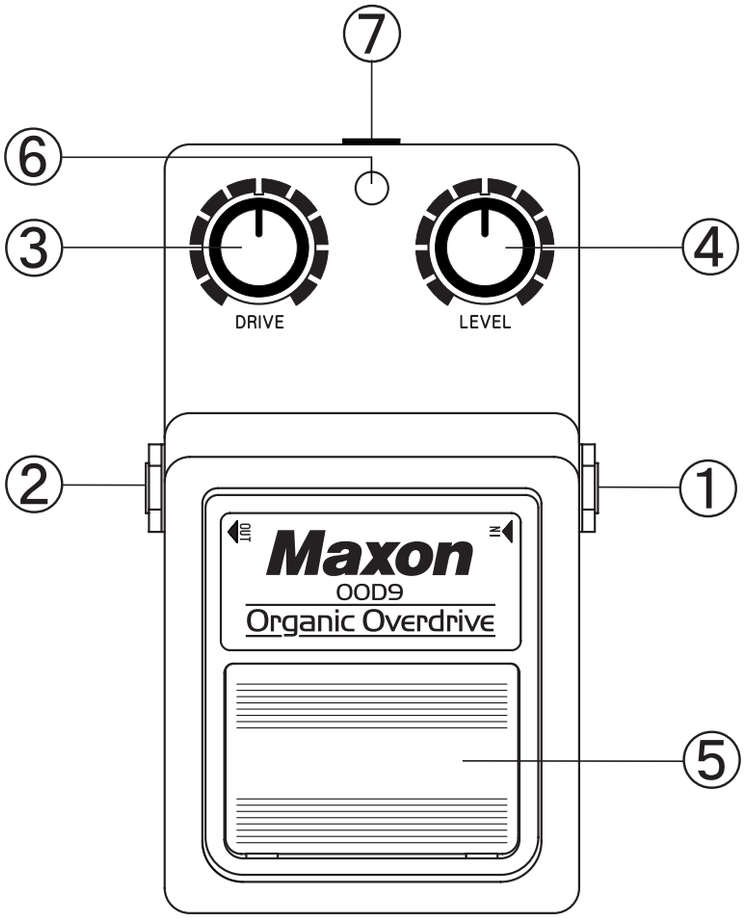
FEATURES AND CONTROLS

①IN (input jack)
Input jack to connect to the output of guitar, other effects or related equipment. The product automatically turns on when a plug is inserted into this jack. When not in use, disconnect plug from input jack to preserve battery life.

②OUT (output jack)
Output jack to connect to the input of amplifier or other effects.

③DRIVE
This controls overdrive level. Turn it clockwise for more overdrive.

④LEVEL
This controls output level of effected signal. Typically output levels of both normal signal and effected signal should be adjusted to equal levels.



- True Bypass Switching with 4PDT mechanical switch. No tone changes when switching bypass/effect.
- Two-way power operation, using 9V alkaline battery or optional AC adaptor. (9V alkaline battery: more than 23 hours, 9V alkaline battery: more than 10.5 hours) Easy-access, tool-free battery compartment.
- OOD9 uses a stabilized DC to DC voltage converter to bump up to 9V (plus and minus 4.5V). Battery voltage drop and fluctuation of AC power source do not affect the tone and function.

⑤FOOTSWITCH

Switch for effect/bypass. Stepping on this switch alternately turns effects on and off.

* Effect turns on when you depress the switch and effect turns off when you depress and release the switch.

⑥LED INDICATOR

This indicates the effect/bypass status and battery condition. It lights when plug is inserted to input jack and effect is on. No LED light indicates the battery is low or not installed. In this case replace the battery.

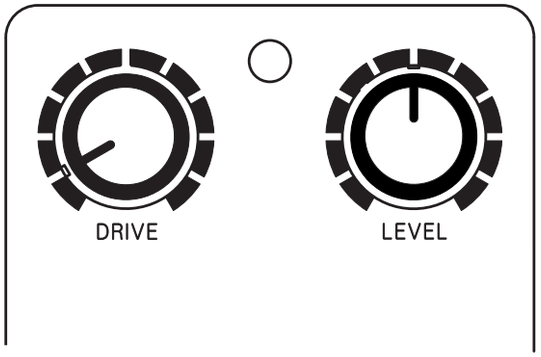
⑦ DC INPUT (power input jack)

Jack for connection of external power supply to effect. Be sure to use the correct Maxon AC adaptor.

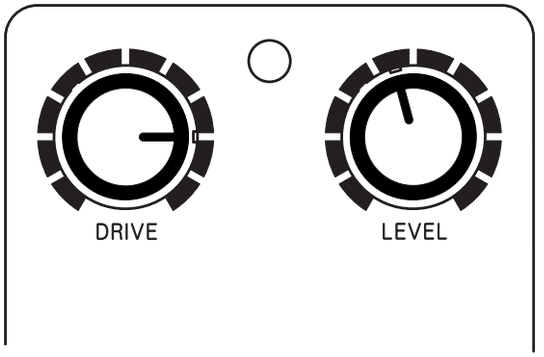
⚠ Turn down amplifier's volume to the minimum before connecting AC adaptor or DC plug.

SAMPLE SETTING

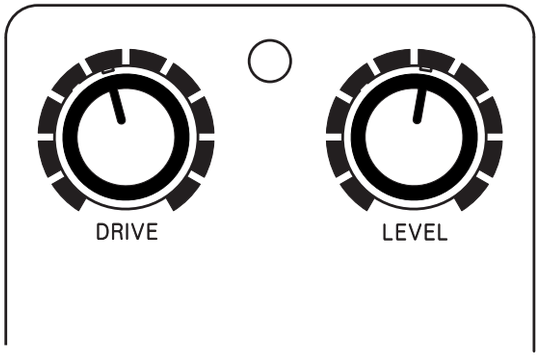
Please visit **www.maxon.co.jp** to listen to audio samples.



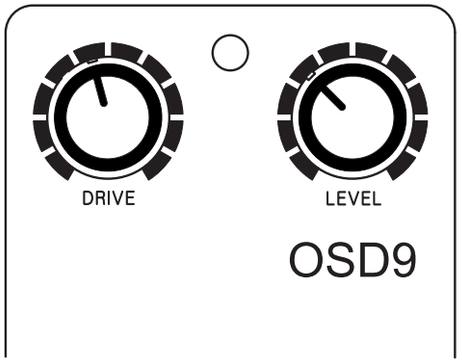
No.1 70's Crunch (G: Les Paul STD/PU: Hum, Amp: Clean)
Creates crunch sound, which is unique characteristic of OOD9. Based on amp sound with moderated drive level, OOD9 adds distortion without changing original tone.

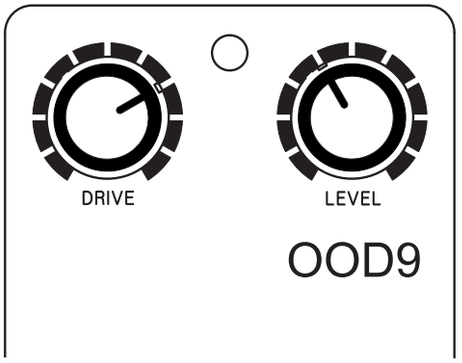


No.3 Drive and Sustainer (G: Les Paul STD/PU: Hum, Amp: Clean)
Booster setting. Provides more power and sustain to amplifier distortion. Effective for both rhythm and lead.



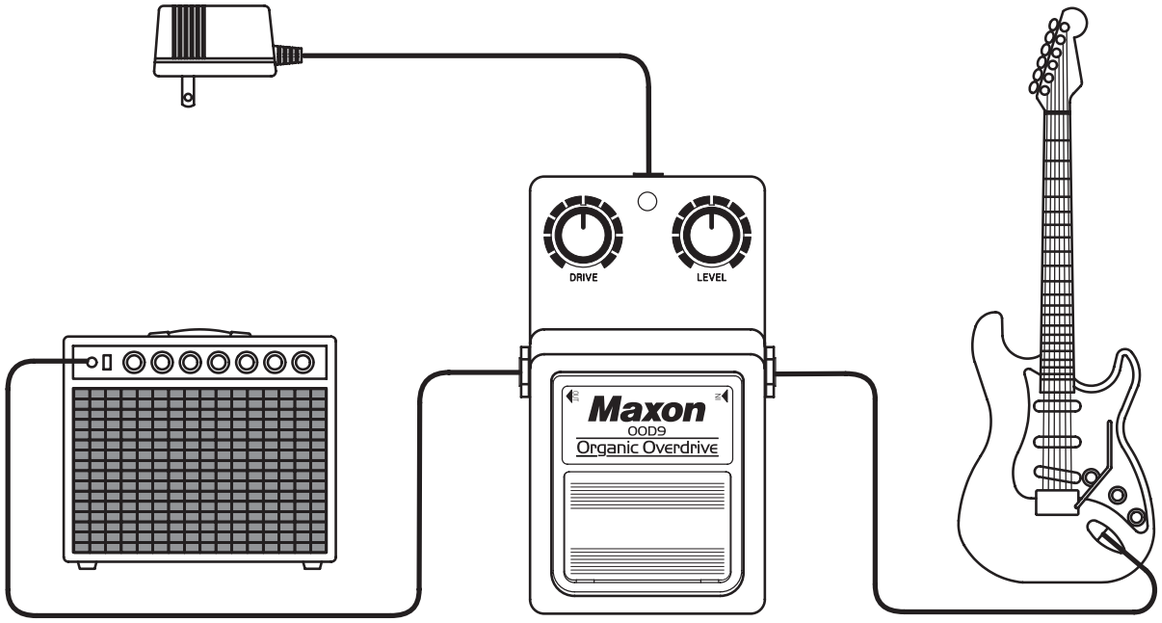
No.2 Organic Distortion (G: Les Paul STD/PU: Hum, Amp: Clean)
Setting for natural expression retaining your playing nuance.





No.4 Dual Drive (G: Les Paul STD/PU: Hum, Amp: Clean)
Dual drive sound with OOD9 and OSD9. First OOD9 provides basic overdrive sound. Then OSD9 adds fat and smooth sustain into OOD9's basic overdrive sound.

CONNECTION DIAGRAM



SPECIFICATIONS

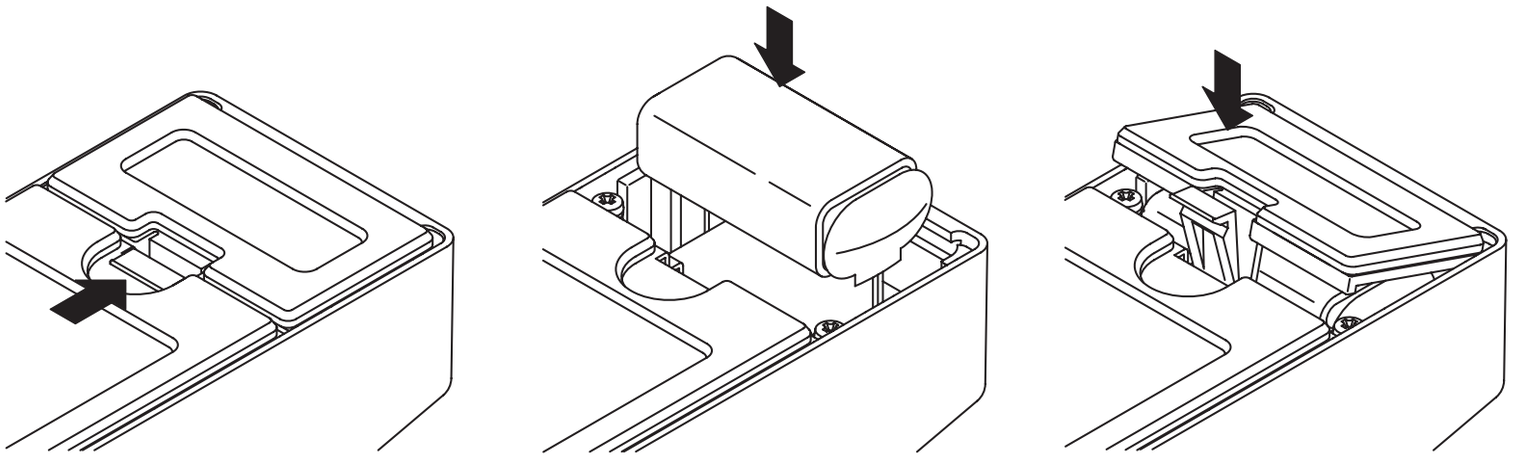
Input Impedance	: 500k ohms
Output Impedance	: 10k ohms or less
Maximum Gain	: 41.5dB (700Hz)
Equivalent Input Noise	: -107dB or less (IHF-A)
Control	: DRIVE, LEVEL
Operating Voltage	: 9V
Power Consumption	: 18mA/DC 9V, 18mA/DC 10V
Dimensions	: 74(W) x 124(D) x 54(H) mm
Weight	: 580g (including battery)
Battery	: 9V battery (6LR61 or 6F22) x 1 or Maxon AC adaptor
Battery life	: manganese dry battery 10.5 hours 25deg C / 77deg F (Panasonic 6F22NB)
	: alkaline dry battery 23 hours 25deg C / 77deg F (Panasonic 6LR61G)
Options	: Maxon AC adaptor

* Specifications are subject to change without notice.

BATTERY REPLACEMENT

BATTERY REPLACEMENT

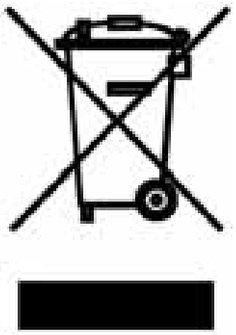
This product operates on one 9V battery (6LR61 or 6F22). Follow the procedures below to replace batteries:



* Be sure the battery is firmly connected to battery snap with the correct polarities.

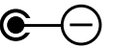
ATTENTION:

- Turn down the volume of effect and amplifier to the minimum before connecting Maxon effects to guitar, amplifier or other effects in order not to damage other connected equipment by unintended noise.
- When not in use, disconnect plug from input jack to preserve battery.
- Take out the battery if the product is not used for a long period of time.
- No or dark LED light indicates the battery is low or not installed. In this case replace the battery to avoid poor effect or distorted signal.
- Be sure to use the correct Maxon AC adaptor. Use of any other adaptor may cause trouble.
- Do not try to remove screws.



If you want to dispose this product, do not mix with general household waste.
There is a separate collection system for used electronics products in accordance with legislation under the WEEE Directive (Directive 2002/96/EC) and is effective only within European Union.

Optional accessories:
Maxon AC adaptor

model name	input	output	polarity
AC210N	120VAC	9VDC/200mA	 center-/sleeve+
AC210U	220VAC		
AC210UK (BS1363 plug)	230VAC		
AC210	100VAC	10VDC/200mA	

Maxon shall not be held liable to you or any third party for any losses caused by incorrect operation of this equipment, malfunction or any other failure of this equipment to operate as expected, or normal use of this equipment, except to the extent stipulated by law.

Maxon shall not be held liable to you or any third party for any losses related to concerts, exhibitions, or any other type of event due to malfunction or incorrect operation of this equipment.

Maxon®

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All specifications are subject to change for improvement without notice or obligation.
Sample setting by Shiro Tanigawa

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