



User's Guide

OD9 OVERDRIVE

SD9 SONIC DISTORTION

AF9 AUTO FILTER

CP9Pro+ COMPRESSOR/LIMITER

PT9Pro+ PHASER

◆SAFETY 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.

OD9 Overdrive

- Identical to the original circuit and featuring the JRC4558 IC chip, the OD-9 produces natural overdrive of a tube amp that smoothly responds to input signal level (playing dynamics).
- Easy-access, no tools battery compartment.
- AC jack to connect optional AC adaptor for long hours of continuous use.

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.

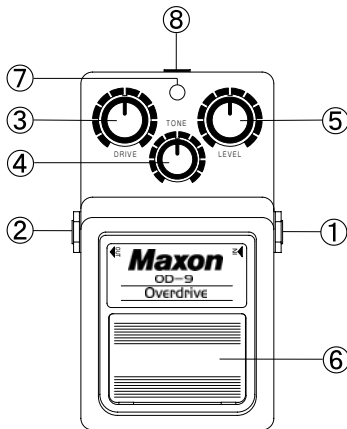
* When an external AC adaptor supplies DC power to this product, the power is always on and battery is preserved regardless of input jack connection.

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 overdrive.



- True Bypass Switching lets your instrument's signal pass through a non-electronic bypass line when the effect is disengaged, feeding your amp with direct, unaltered signal from your instrument.
Low noise mechanical switch is used for effect/normal switching.
- LED to indicate normal/effect and battery condition for trouble-free performance.

④ TONE

This controls the amount of high frequencies. Turn it clockwise for more treble and counterclockwise 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.

⑥ FOOTSWITCH

Switch for effect on/off. 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.

⑦ LED INDICATOR

This indicates the normal/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.

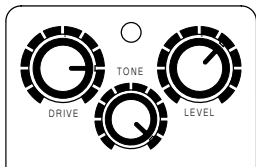
⑧ DC IN (power input jack)

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

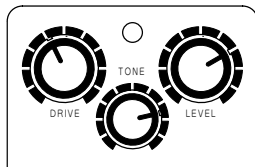
 Turn down amplifier's volume to the minimum before connecting AC adaptor to the product in order not to damage other connected equipment.

SAMPLE SETTING

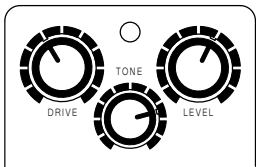
go to www.maxon.co.jp for sound samples



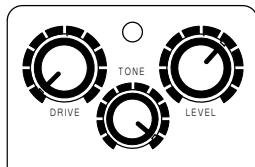
No.1 (for humbucker with clean amp)
This makes clean sound into OD-9's characteristic tube drive sound.



No.3(for humbucker/single coil with dirty amp)
This setting makes compact amp's drive sound more powerful like stack amp sound. Recommended for lead guitar, too.

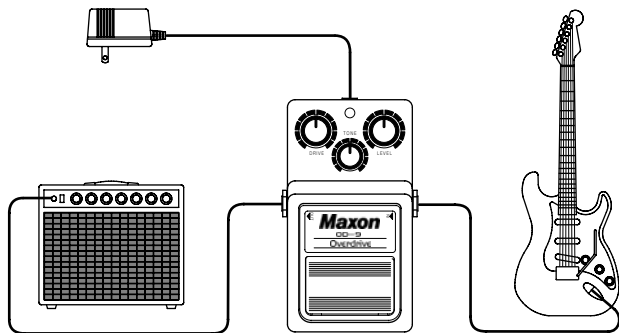


No.2 (for humbucker with crunch amp)
OD-9 adds power and sustain to your crunch amp.



No.4(for single coil with clean/crunch amp)
Gain booster that maintains your original picking nuance and dynamics.

CONNECTION DIAGRAM



SPECIFICATIONS

Input Impedance	: 500k ohms
Output Impedance	: 10k ohms
Maximum Gain	: 40dB (at 1.5kHz)
Equivalent Input Noise	: -114dB or less (input shorted IHF-A weighted)
Power Supply	: 6F22 9V manganese dry battery x 1 or Maxon AC adaptor
Power Consumption	: 6mA / 9V
Dimensions	: 124(D) x 74(W) x 54(H) mm
Weight	: 580g (including battery)
Options	: Maxon AC adaptor
Battery life	: manganese dry battery 76 hours 25deg C / 77deg F (Panasonic 6F22NB)

* Specifications subject to change without notice.

SD9 Sonic Distortion

- Bright distortion with precise picking response over the entire frequency range. Sweet harmonics accentuate high-end tones.
- Easy-access, no tools battery compartment.
- A jack to connect optional AC adaptor for long hours of continuous use.

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.

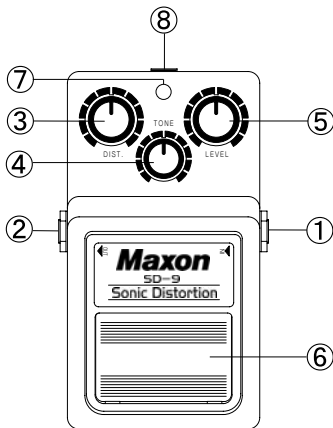
* When an external AC adaptor supplies DC power to this product, the power is always on and battery is preserved regardless of input jack connection.

② OUT (output jack)

Output jack to connect to input of amplifier or other effects.

③ DISTORTION

This controls distortion level. Turn it clockwise for more distortion.



- True Bypass Switching lets your instrument's signal pass through a non-electronic bypass line when the effect is disengaged, feeding your amp with direct, unaltered signal from your instrument.
Low noise mechanical switch is used for effect/normal switching.
- LED to indicate normal/effect and battery condition for trouble-free performance.

④ TONE

This controls the amount of high frequencies. Turn it clockwise for more treble and counterclockwise 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.

⑥ FOOTSWITCH

Switch for effect on/off. 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.

⑦ LED INDICATOR

This indicates the normal/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.

⑧ DC IN (power input jack)

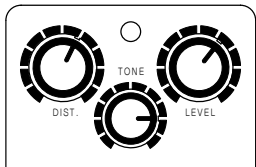
A jack for connection of external power supply to effect. Be sure to use the correct Maxon AC adaptor.



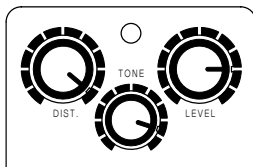
Turn down amplifier's volume to the minimum before connecting AC adaptor to the product in order not to damage other connected equipment.

SAMPLE SETTING

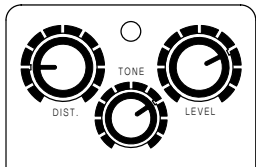
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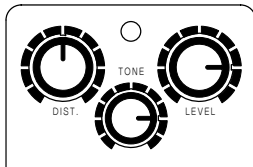
No.1 (for humbucker with clean amp)
Smooth and powerful drive sound
featuring SD-9's characteristic "fat"
distortion.



No.3 (for humbucker with clean amp)
Light fuzz sound made by boosting
high frequencies and rear pickup tone.

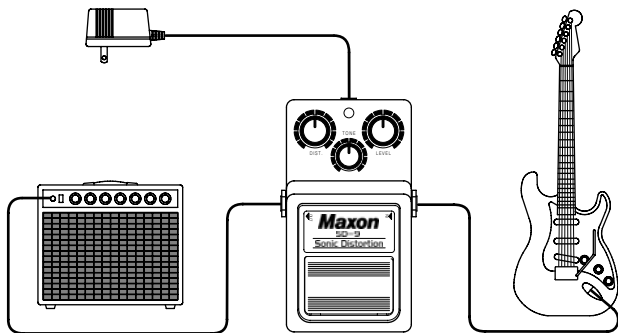


No.2 (for single coil with crunch amp)
Distortion level is set low for
overdrive taste. Recommended when
amp's tonal character is important.



No.4 (for humbucker with drive amp)
SD-9 effects are added to amp that is
set with little mid-range, to make heavy
distortion sound.

CONNECTION DIAGRAM



SPECIFICATIONS

Input Impedance	: 500k ohms
Output Impedance	: 10k ohms
Maximum Gain	: 42dB (at 2.0kHz)
Equivalent Input Noise	: -115dB or less (input shorted IHF-A weighted)
Power Supply	: 6F22 9V manganese dry battery x 1 or Maxon AC adaptor
Power Consumption	: 6mA / 9V
Dimensions	: 124(D) x 74(W) x 54(H) mm
Weight	: 580g (including battery)
Options	: Maxon AC adaptor
Battery life	: manganese dry battery 76 hours 25deg C / 77deg F (Panasonic 6F22NB)

* Specifications subject to change without notice.

AF9 Auto Filter

- Fat sound auto-wah equipped with photo coupler. Five controls packed in a compact body allow various filter effects.
- Easy-access, no tools battery compartment.
- A jack to connect optional AC adaptor for long hours of continuous use.

FEATURES AND CONTROLS

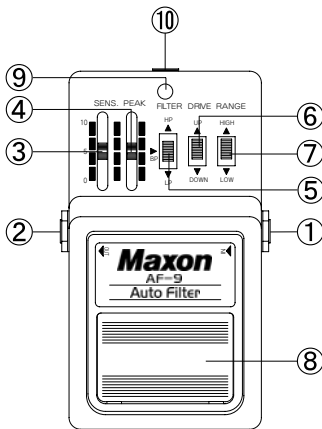
Before each control's description, auto filter's basic function is explained below by contrast with an ordinary wah pedal:

A wah pedal shifts the band pass filter's center frequency up and down by moving a pedal volume that is geared to a potentiometer to produce wah effects.

With auto filter, an electronic circuit comes in place of the potentiometer and converts input signal's volume into voltage to control VCF (Voltage Controlled Filter), allowing automatic wah effects in response to tonal volume of input signal. And auto filter has HPF (High Pass Filter) and LPF (Low Pass Filter) for additional effects that you can't get with ordinary wah pedal.

Refer to OD-9 pages for ①, ②, ⑧, ⑨ and ⑩.

- ① IN (input jack)
- ② OUT (output jack)



- True Bypass Switching lets your instrument's signal pass through a non-electronic bypass line when the effect is disengaged, feeding your amp with direct, unaltered signal from your instrument. Low noise mechanical switch is used for effect/normal switching.
- LED to indicate normal/effect and battery condition for trouble-free performance.

③ SENSITIVITY

This adjusts sensitivity with which instrument's volume is converted to the voltage that controls VCF. The degree of auto filter effect is subject to your instrument's output volume and your playing touch. Adjust sensitivity to your taste. With your playing touch at a fixed level, sliding this volume upward provides wider range of filtered frequencies just as a pedal volume on ordinary wah pedal does.

④ PEAK

This boosts the center frequency to accentuate wah effects as VCF's resonance does for synthesizer. Slide this volume upward for more peak. Too much peak may distort your instrument's signal, depending on how much input sensitivity your amplifier has.

⑤ FILTER MODE - HP/BP/LP

This is a filter mode switch. LP (Low Pass filter) cuts out high frequencies.

BP (BandPass filter) cuts out both high and low frequencies, only leaving the center frequency. HP (High Pass filter) cuts out low frequencies.

⑥ DRIVE MODE - UP/DOWN

This decides whether the center frequency moves up or down. The center frequency moves up in UP mode and moves down in DOWN mode when input signal exceeds a specified threshold level. UP is like a wah pedal with its pedal volume horizontal and DOWN is like that with the volume sloped

⑦ RANGE MODE - HIGH/LOW

This switches the frequency range to be filtered between high (200Hz - 4 kHz) and low (100Hz - 2 kHz). Better to play bass guitar in RANGE LOW mode.

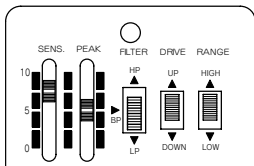
⑧ FOOTSWITCH

⑨ LED INDICATOR

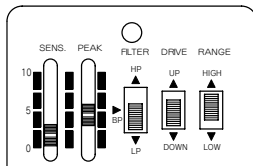
⑩ DC IN

SAMPLE SETTING

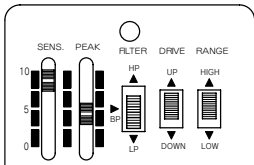
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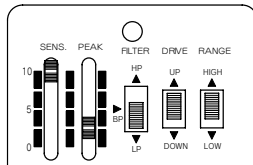
No.1 (for single coil with clean/crunch amp)
For single notes. Your picking attack triggers wah effects. This setting provides a sound similar to conventional wah pedals depending on the guitar phrase.



No.3 (for humbucker/single coil with clean/crunch amp + OD-9)
This adds subtle picking attack to OD-9 or other overdrive effects for expressive picking tone.

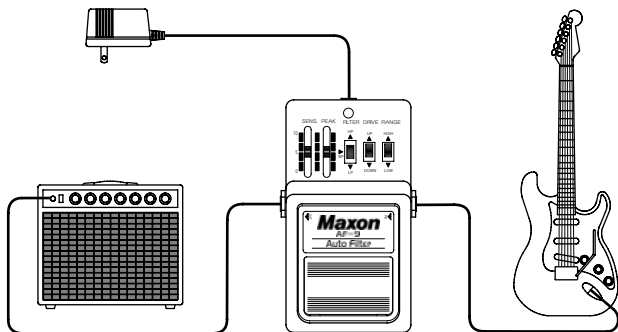


No.2 (for single coil with clean amp)
Auto filter's characteristic tone for groovy cutting play. Adjust PEAK to your taste.



No.4 (for bass)
Auto filter's characteristic tone to enhance bass's attack for more edge.

CONNECTION DIAGRAM



SPECIFICATIONS

Input Impedance	: 500k ohms
Output Impedance	: 10k ohms
Filter frequency	: 100Hz - 2 kHz (low) 200Hz - 4 kHz (high)
Residual Noise	: -95dB or less (input shorted, IHF-A weighted)
Power Supply	: 6F22 9V manganese dry battery x 1 or Maxon AC adaptor
Power Consumption	: 17mA / 9V
Dimensions	: 124(D) x 74(W) x 54(H) mm
Weight	: 580g (including battery)
Options	: Maxon AC adaptor
Battery life	: manganese dry battery 25 hours 25deg C / 77deg F (Panasonic 6F22NB)

* Specifications subject to change without notice.

CP9Pro+ Compressor/Limiter

- CP9Pro+ by use of high-quality VCA (voltage controlled amplifier) and RMS (root-mean-square) sensor, provides natural attack response with low noise.
- CP9Pro+ uses a DC-DC voltage converter to bump 9V up to 18V. PT9Pro+ provides wide dynamic range and sufficient head room against distortion.
- Compression/Limit level response to picking dynamics is easily viewable with Threshold LED.

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)

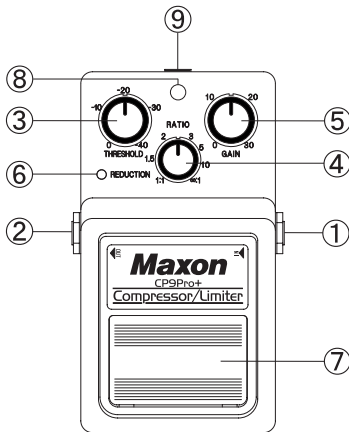
Output jack to connect to the input of amplifier or other effects.

③ THRESHOLD (threshold level control knob)

Controls threshold level of compression. (Fig. 1) When an input signal is above the THRESHOLD level, compression will be carried out in the manner defined by the setting of the RATIO control. (Fig. 2) Compression starts from a low level when this control is turned clockwise. So turn the output level up by the GAIN control since the output level becomes also low. (Fig. 3)

④ RATIO (ratio control knob)

Controls compression ratio. Turn RATIO control knob clockwise to increase



- True Bypass Switching with 4PDT lets your instrument's signal pass through a non-electronic bypass line when the effect is disengaged, feeding your amp with direct, unaltered signal from your instrument.
- Easy-access, no tools battery compartment.

compression from 1:1 (no compression) up to ∞ : 1 (no increase in output level, regardless of input level increases above threshold). When the RATIO is ∞ : 1, it can be used as a limiter. When the RATIO is 1:1, it can be used as a clean booster.

⑤ GAIN (gain control knob)

Controls output level. When strong compression is set by THRESHOLD and RATIO, output level goes down. (Fig. 3) Turn GAIN control knob clockwise to have the same volume as Bypass

functions. Output level can be boosted up to +30dB so that when the RATIO is 1:1, it can be used as a clean booster.

- ⑥ REDUCTION LED (reduction indicator)
The LED lights when output level is compressed more than +3dB vs. input level.

Refer to OD9 pages for ⑦ ⑧ ⑨.

⑦ FOOTSWITCH

⑧ INDICATOR

⑨ DC. IN.

Fig.1 THRESHOLD

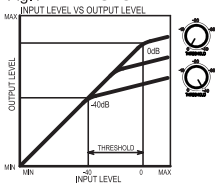


Fig.2 RATIO

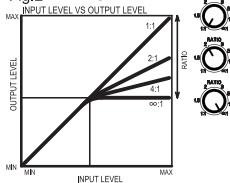
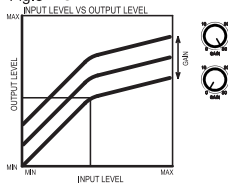
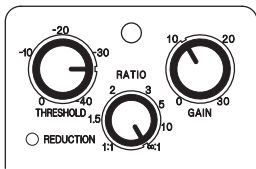


Fig.3 GAIN

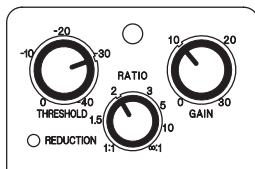


SAMPLE SETTING

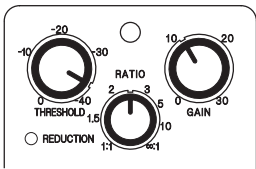
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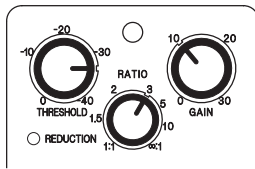
No.1 Deep Comp
Provides unique sound of deep compression by turning RATIO control fully clockwise. The nuance of original sound is not spoiled even in deep compression.



No.3 Fingerstyle Bass
Setting for even attack of finger picking. THRESHOLD and GAIN knobs should be adjusted according to output of bass guitar.

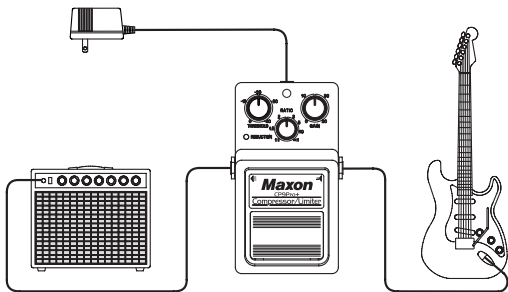


No.2 Cutting
Setting to even output of the attack of cutting in clean sound. To get a balance with the attack of original sound, turn the THRESHOLD knob.



No.4 Slap Bass
Setting to compress slap phrase which has a lot of peak levels. Attack level balances with other level with much compression. THRESHOLD and GAIN knobs should be adjusted according to output of bass guitar.

CONNECTION DIAGRAM



SPECIFICATIONS

Input Impedance	: 500k ohms
Output Impedance	: 10k ohms
Maximum output level	: +18dBu (1kHz)
Control THRESHOLD	: 0dBu to -40dBu
RATIO	: 1:1 to ∞ :1
GAIN	: 0dB to +30dB
Distortion ratio	: 0.01% (1kHz) at 0dB output
Residual Noise	: -95dBu (Input shorted, IHF-A weighted)
Indicator	: Normal/Effect LED, REDUCTION LED When REDUCTION LED lights, compression is more than 3dB.
Internal circuit voltage	: Stabilized $\pm 9V$ DC-DC Converter
Power Supply	: 6F22 9V manganese dry battery x 1 or Maxon AC adaptor
Power Consumption	: 25mA/9V
Dimensions	: 124(D) x 74(W) x 54(H)
Weight	: 580g (including battery)
Battery life	: manganese dry battery 5.1 hours 25deg C / 77deg F (Panasonic 6F22NB) : alkaline dry battery 12.4 hours 25deg C / 77deg F (Panasonic 6LR61G)

* Specifications subject to change without notice.

PT9Pro+ Phaser

- PT9Pro+ by use of high-performance light dependent resistor device and ten-stage phasing provides studio quality smooth phase sound with low noise.
- PT9Pro+ uses a stabilized DC-DC voltage converter to bump 9 volts up to plus and minus 9 volts. PT9Pro+ provides wide dynamic range and sufficient head room against distortion.

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)

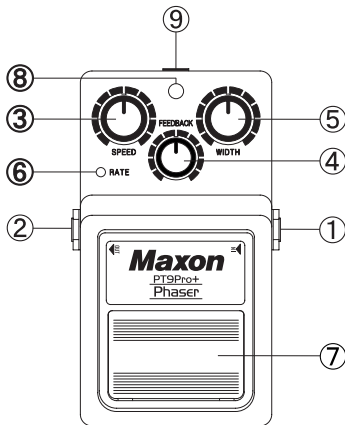
Output jack to connect to the input of amplifier or other effects.

③ SPEED (speed control knob)

Controls modulation rate. Turn this knob clockwise for faster modulation.

④ FEEDBACK (feedback control knob)

Controls effect level of modulation. Turn this knob clockwise for PT9Pro+'s characteristic effects with unique modulation. The fully clockwise position may cause a self-oscillation, which you can cut off by turning this control counter-



- RATE LED brightness synchronizes with phase shift speed. It makes it easy to see the rate.
- True Bypass Switching using 4PDT switch lets your instrument's signal pass through a non-electronic bypass line when the effect is disengaged, feeding your amp with direct, unaltered signal from your instrument.
- Easy-access, no tools battery compartment.

clockwise.

- ⑤ WIDTH (width control knob)
Controls modulation depth. Turn this knob clockwise for deeper modulation.
- ⑥ RATE (rate indicator)
Indicates phase shift speed rate. LED brightness synchronizes with phase shift speed set by speed control knob.
- ⑦ FOOTSWITCH
Switch for effect on/off. Stepping on this switch alternately turns effect on and off.
* Effect turns on when you depress the switch and effect turns off when you depress and release the switch.
- ⑧ INDICATOR
This indicates the normal/effect

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

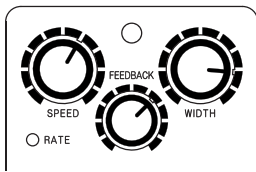
- ⑨ DC IN (power input jack)
Jack for connection of external power supply to effect. Be sure to use the correct Maxon AC adaptor.



* Turn down amplifier's volume to the minimum before connecting AC adaptor to the product in order not to damage other connected equipment.

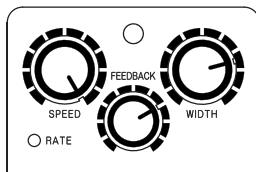
SAMPLE SETTING

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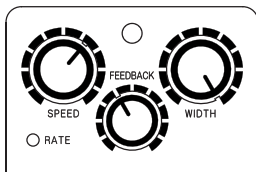
No.1 Smooth & Warm

Standard setting with medium speed. Warm tone, i.e. natural and fat studio sound, which is unique characteristic for analog phase and is very impressive.



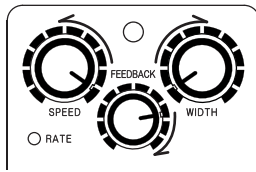
No.3 Bass

PT9Pro+ goes well with bass. Wide modulation can be added without spoiling your original bass sound. Wide-range effect is controlled by WIDTH.



No.2 Tremolo

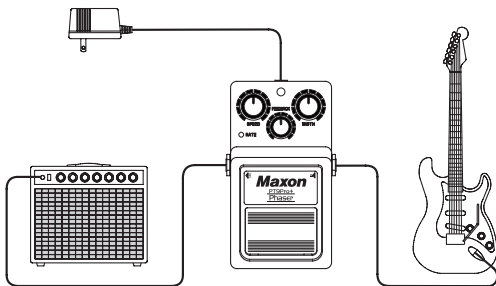
This setting provides wide tremolo sound which is a bit different from the one for chorus effect. Modulation character can be controlled by WIDTH.



No.4 FEEDBACK

This setting provides special sound which is distinctive characteristic of PT9Pro+. With FEEDBACK level set to full, this special sound is created by WIDTH and SPEED.

CONNECTION DIAGRAM



SPECIFICATIONS

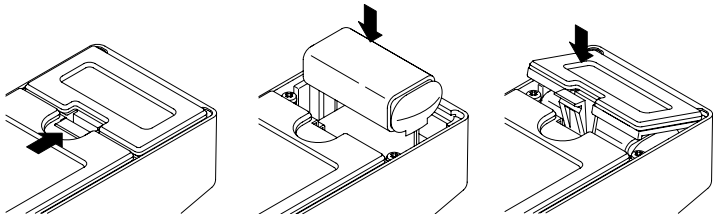
Input Impedance	: 500k ohms
Output Impedance	: 10k ohms
Maximum output level	: +18dBu (1kHz)
Control	: SPEED FEEDBACK WIDTH
Speed Frequency	: 0.055 to 8.3Hz (18Sec to 120mSec)
Indicators	: Normal/Effect LED RATE LED
Residual Noise	: -95dBu (Input shorted, IHF-A weighted)
Internal circuit voltage	: Stabilized $\pm 9V$ DC-DC Converter
Power Supply	: 6F22 9V manganese dry battery x 1 or Maxon AC adaptor
Power Consumption	: 32mA/9VDC
Dimensions	: 124(D) x 74(W) x 54(H)mm
Weight	: 580g (including battery)
Battery life	: manganese dry battery 3.0 hours 25deg C / 77deg F (Panasonic 6F22NB)
	: alkaline dry battery 8.4 hours 25deg C / 77deg F (Panasonic 6LR61G)

* Specifications subject to change without notice.

BATTERY REPLACEMENT

BATTERY REPLACEMENT

This product operates on one 9V battery (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.

Optional accessories: Maxon AC adaptor

model name	input	output	country	polarity
AC2009*1	100VAC to 240VAC	9VDC/2000mA	worldwide	 center-/sleeve+
AC210N	120VAC	9VDC/200mA	USA, Canada	
AC210U	220VAC		Europe (except UK)	
AC210UK	230VAC	UK		
AC210	100VAC	10VDC/200mA	Japan	
AC310	100VAC	10VDC/300mA	Japan	

*1 Plug type of AC2009 varies with the suffix as shown below.
Please specify exact model (like AC2009AN, AC2009C) when ordering.

suffix	country	suffix	country
AN	Australia, New Zealand	U	
C	China		
J	Japan		
K	South Korea		
N	USA, Canada	UK	



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.

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.



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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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UMN-9SE-0103B

July 2008 Printed in Japan