



User's Guide

AD-9 Analog Delay

CS-9Pro Stereo Chorus

FL-9 Flanger

◆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.

AD-9 Analog Delay

- AD9 provides a variety of analog delay effects from warm reverbs to organic echoes with low noise and wide-range tone. Dual outputs-effect out and dry out-allow you to play with two amps for stereo effects.
- 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)

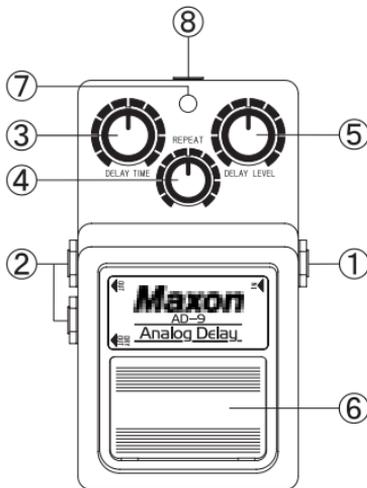
Input jack to connect to the output of guitar, other effects or related equipment. The product automatically turns on when a plug is inserted into this jack. When not in use, disconnect plug from input jack to preserve battery life.

② OUT (output jack)

Output jack 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 16mSec. to 300mSec. Turn it clockwise for longer delay time.



- 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 REPEAT

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 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.

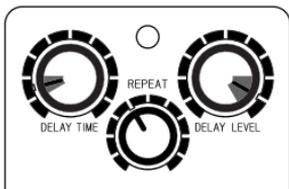
⑧ DC IN (power input jack)

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

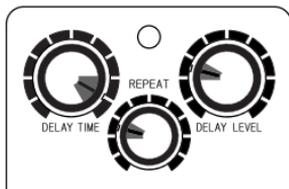
 Turn down amplifier's volume to the minimum before connecting AC adaptor to the product in order not to damage other connected equipment.

SAMPLE SETTING

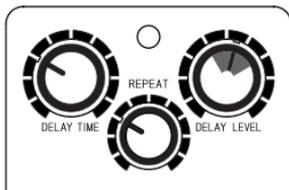
go to www.maxon.co.jp for sound samples



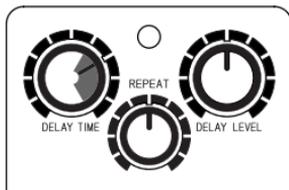
No.1 Ambience delay 1
(for humbucker, front pickup)
A subtle short delay to simulate the atmosphere of a live performance. Usable to add just a bit different nuance at recordings.



No.3 For solos
(for single coil, center pickup)
Adjust DELAY TIME to match the tempo of your song and enjoy the spacious sound with analog delay's less rigid time setting and warmer tone than those of digital delays.

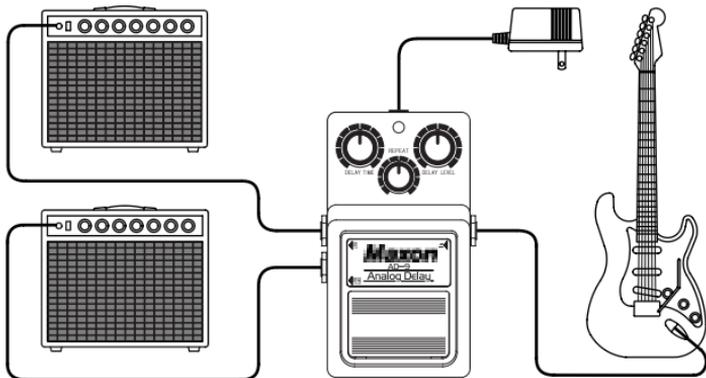


No.2 Ambience delay 2
(for humbucker, front & rear pickups)
Ambience sound with delay flavor. Suitable to create a live sound by means of analog delay instead of less characteristic reverb effect. The REPEAT knob controls the delay's character.



No.4 Short delay
(for single coil, rear pickup)
Good for muted guitar notes and others. You can make your notes spacious and deep by setting DELAY LEVEL to a bit generous amount and adjusting DELAY TIME to have the delayed notes match the backbeat of your notes.

CONNECTION DIAGRAM



SPECIFICATIONS

Input Impedance	: 100k ohms
Output Impedance	: 10k ohms
Delay Time	: 16mSec - 300mSec
Residual Noise	: -100dB or less (input shorted IHF-A weighted)
Power Supply	: 6F22 9V manganese dry cell battery x 1 or Maxon AC adaptor
Power Consumption	: 19mA / 9V 20mA / 10V
Dimensions	: 124(D) x 74(W) x 54(H) mm
Weight	: 580g (including battery)
Options	: Maxon AC adaptor (9-10VDC)

* Specifications subject to change without notice.

CS-9Pro Stereo Chorus

- CS9Pro provides a variety of chorus effects from warm and spacious chorus to high-speed modulations with low noise and wide-range tone. Dual outputs allow you to play with two amps for stereo effects.
- 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)

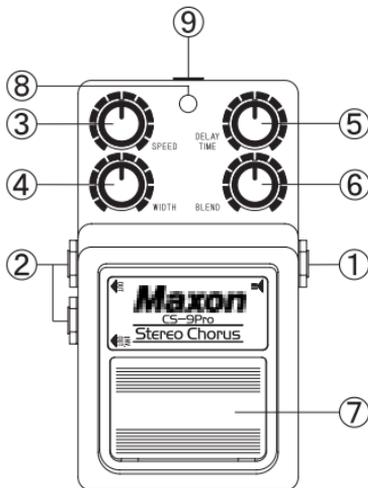
Input jack to connect to the output of guitar, other effects or related equipment. The product automatically turns on when a plug is inserted into this jack. When not in use, disconnect plug from input jack to preserve battery life.

② OUT (output jack)

Output jacks to connect to input of amplifier or other effects. Use either OUT or INV. OUT for monaural mode, and dry signal and delayed signal come out mixed. (INV. OUT inverts the phase of delayed signal and makes the resulting tone slightly different from the tone from OUT. Use the one you prefer.) Use both OUT and INV. OUT for stereo mode.

③ SPEED

Controls modulation rate. Rotate this volume clockwise for more modulation rate.



- 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 WIDTH

Controls modulation depth. Rotate this volume clockwise for deeper modulation.

⑤ DELAY TIME

Controls the time between original dry tone and effected tone. Rotate this volume fully counterclockwise for flanger-like chorus with short delay time. Rotate it clockwise for longer delay time.

⑥ BLEND

Controls the volume level of modulated tone which is mixed with original dry tone, allowing you to adjust between subtle chorus and rich chorus. Typically dry tone and modulated tone should be adjusted to equal levels by rotating this volume fully clockwise.

⑦ 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.

⑧ 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.

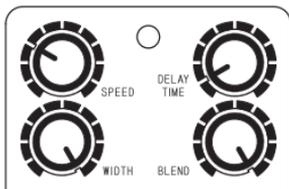
⑧ DC IN (power input jack)

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.

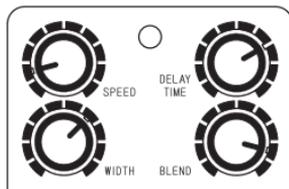
SAMPLE SETTING

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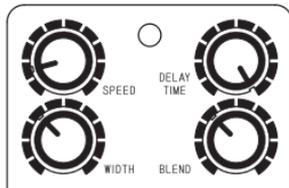
No.1 Vintage vibe (for humbucker, front & rear pickups)

Creates a unique swell of sound reminiscent of the vibrato effects in the 60s. Increase DELAY TIME and you'll get deeper chours.



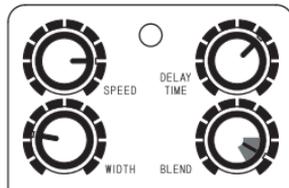
No.3 Slow & deep (for single coil, front & center pickups)

A modulation sound created by deep chorus effect. Good for clean tone, arpeggio and bass. Control the intensity of the swell with SPEED and BLEND.



No.2 For leads (for humbucker, rear pickup)

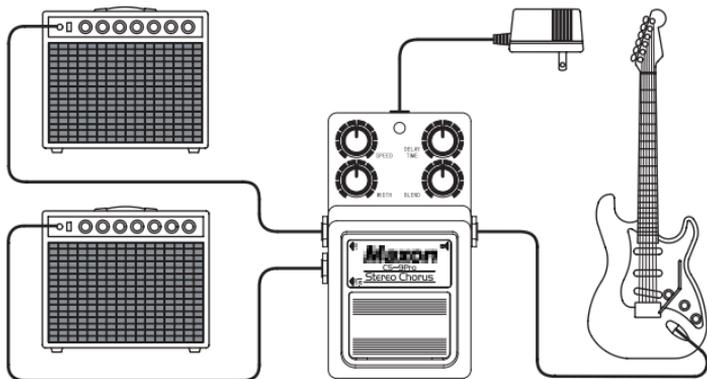
Similar to the doubling effect, with DELAY TIME set to full, this setting adds thick and brilliant colors to your overdriven lead tone.



No.4 Tremolo chorus (for single coil, center pickups)

A tremolo-like chorus with high SPEED setting. The DELAY TIME controls the extent of a spacious feeling and BLEND adjusts the depth of the tremolo. Good to accentuate specific notes in a song.

CONNECTION DIAGRAM



SPECIFICATIONS

Input Impedance	: 500k ohms
Output Impedance	: 10k ohms
Delay time	: 0.9mSec - 6.4mSec
Speed Frequency	: 0.4Hz - 8Hz
Residual Noise	: -92dB or less (input shorted IHF-A weighted)
Power Supply	: 6F22 9V manganese dry cell battery x 1 or Maxon AC adaptor
Power Consumption	: 26mA / 9V 26mA / 10V
Dimensions	: 124(D) x 74(W) x 54(H) mm
Weight	: 580g (including battery)
Options	: Maxon AC adaptor (9-10VDC)

* Specifications subject to change without notice.

FL-9 Flanger

- FL-9 is an analog flanger that creates thick flangings from heavy jet sound to unique chorus effect while retaining your instrument's natural tone, with low noise and wide-range tone.
- 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.

② OUT (output jack)

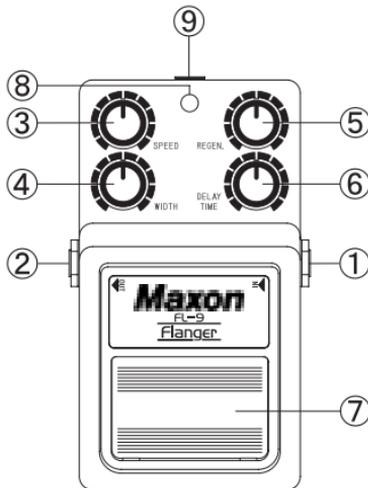
Output jack to connect to input of amplifier or other effects.

③ SPEED

Controls modulation rate. Rotate this volume clockwise for more modulation rate.

④ WIDTH

Controls modulation width. Rotate this volume clockwise for wider modulation.



- 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.

⑤ REGEN.

Controls the effect's intensity. Rotate this volume clockwise for more intense effects.

⑥ DELAY TIME

Controls the center frequency of the flanging effects. Rotate this volume clockwise for higher center frequency and for more effects in high notes.

⑦ 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.

⑧ 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.

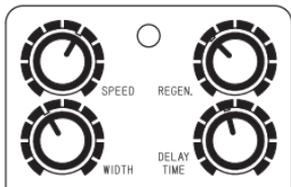
⑨ DC IN (power input jack)

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

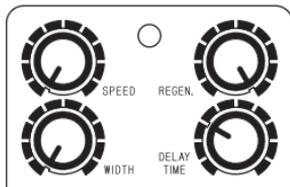
 Turn down amplifier's volume to the minimum before connecting AC adaptor to the product in order not to damage other connected equipment.

SAMPLE SETTING

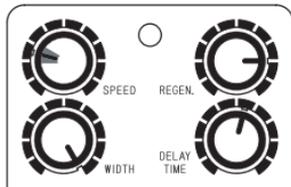
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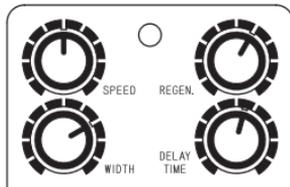
No.1 Smooth flanging
(for humbucker, front & rear pickups)
Smooth flanging mixed with deep chorus-like effect. With swells peculiar to flanger, it still produces natural modulation. Usable to add a bit different flavor to your tone.



No.3 Wah-like tone
(for humbucker, rear pickup)
A generous amount of REGEN. is used to simulate the out-of-phase tone.

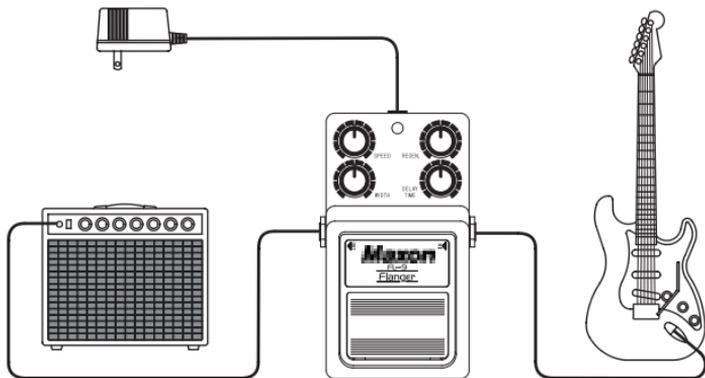


No.2 Jet flanging
(for single coil, rear pickup)
A deep flanging effect similar to the roar of a jet plane. With DS-830, OD-9 or other overdrives in front of it, FL-9 gives you its characteristic jet flanging.



No.4 Classic flanging
(for single coil, center pickup)
A standard flanging tone making the most of the flanger's modulation. You can make it more exciting by adjusting SPEED to match the tempo of the song.

CONNECTION DIAGRAM



SPECIFICATIONS

x

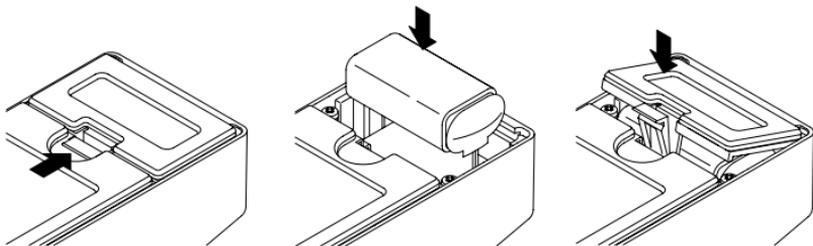
Input Impedance	: 500k ohms
Output Impedance	: 10k ohms
Delay time	: 1.0mSec - 12.8mSec
Speed Frequency	: 0.03Hz - 12Hz
Residual Noise	: -98dB or less (input shorted IHF-A weighted)
Power Supply	: 6F22 9V manganese dry cell battery x 1 or Maxon AC adaptor
Power Consumption	: 25mA / 9V 25mA / 10V
Dimensions	: 124(D) x 74(W) x 54(H) mm
Weight	: 580g (including battery)
Options	: Maxon AC adaptor (9-10VDC)

* 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:

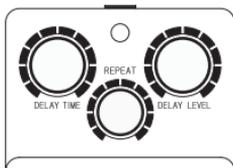
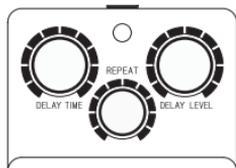


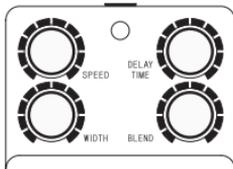
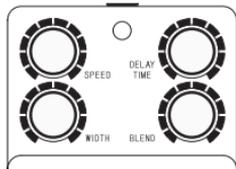
* Be sure the battery is firmly connected to battery snap with the correct polarities.

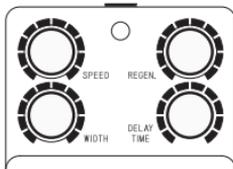
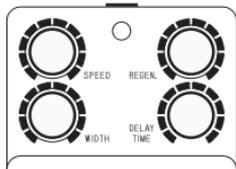
ATTENTION:

- 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.

MEMO







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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Printed in Japan



Also available -

OD-9 Overdrive

SD-9 Sonic Distortion

AF-9 Auto Filter

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Sample setting by Shiro Tanigawa

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