INSTRUCTIONS

Thank you, and congratulations on your choice of this product. To make sure you get the most out of the PN-2 TREMOLO/PAN, and enjoy continuing satisfaction as a result of operating it under the best of conditions, please thoroughly read these instructions.

- The PN-2 TREMOLO/PAN is an effects unit which creates effects that pan the sound to left and right, as well as applies periodic changes in the sound's volume to produce a tremolo effect.
- The unit makes stereo output possible for instruments having only monaural output, through use of the Panning effect.
- Since the unit is also equipped with stereo inputs, the Panning/Tremolo effects can be used for instruments such as keyboards equipped with stereo output.
**PANEL DESCRIPTION**

1. **AC Adaptor Jack**
   - This jack accepts connection of the AC Adaptor (BOSS PSA-120, 220 or 240, optional).
   - Use of the AC adaptor allows you to play for as long as you wish without being concerned about the battery wearing out.
   - Make certain you use only the specified AC adaptor (PSA Series). Use of any other AC adaptor can cause operational errors or damage to the unit.

2. **Check Indicator**
   - Lights up when the effect is on, allowing you to confirm if the effect is on or off.
   - This indicator also serves as the Battery Check indicator. When the battery becomes drained, or no longer lights, this means that the battery has been depleted and needs to be replaced with a new one.

3. **Rate Indicator**
   - This indicator blinks on and off repeatedly in keeping with the rate that has been set using the Rate Knob.
   - The indicator will always be active regardless of whether or not effects have been turned on.

4. **Rate Knob**
   - Used to adjust the rate. The farther you move the knob clockwise, the faster the rate becomes.

5. **PAN**
   - Adjusts the rate at which the output will be panned from left to right.

6. **TREMOLO**
   - Adjusts the rate at which the level of the output will increase and decrease.

7. **Output Jacks A/B**
   - These output jacks are used for connecting with amplifiers or other effects devices.

8. **Pedal Switch**
   - Used to turn effects on or off.

9. **Thumb Screw**
   - When this screw is loosened, the pedal opens, allowing for the battery to be changed. For information on how to change the battery, refer to "BATTERY REPLACEMENT".

10. **Depth Knob**
    - Provides for adjustment of the amount of fluctuation (amount of change). When it is turned fully counterclockwise, no effect will be obtained.

11. **Input Jacks A/B**
    - These jacks accept connection of a guitar or other electronic instruments.
    - When the unit is to be used in monaural, the connection should be made to input jack A (MONO).

**CONNECTIONS**

- When a plug is inserted into input jack A, the power is turned on.
- When the unit is to be used in monaural, the connection should be made to input jack A (MONO).

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**Notes**

- When a plug is inserted into input jack A, the power is turned on.
- When the unit is to be used in monaural, the connection should be made to input jack A (MONO).
OPERATION

1. Once you have all cords connected, the knobs on the panel should be set as shown in the illustration.
   - Always make sure you turn down the volume on your amplifier before connecting or disconnecting any cords.

2. Depress the pedal switch ⑤, thus turning the effect on. (The Check Indicator will light up.)

3. Set the mode using the Mode knob ⑥.

4. Set the rate using the Rate knob ⑦. The further you move the knob clockwise, the faster the rate becomes. The blinking of the Rate Indicator ⑧ provides you with the means for checking the rate.

5. Adjust the amount of fluctuation (change) using the Depth knob ⑨. The further it is moved clockwise, the greater the amount of fluctuation (change) becomes.

BATTERY REPLACEMENT

1. Loosen the thumb screw on the pedal to open it.

2. Take out the battery from the battery housing and disconnect the battery snap.

3. Connect a new battery to the battery snap, then replace the battery in to the battery housing.
   - Make sure that the polarity of the battery is correct.

4. Push the coil spring into the spring base on the rear of the pedal, then close the pedal.
   - Make sure that the snap cord is not caught in the pedal or coil spring.

5. Insert the thumb screw into the guide bush hole and firmly tighten the screw.

Use one 9-volt battery

IMPORTANT NOTES

- Do not subject the unit to temperature extremes (e.g., direct sunlight in an enclosed vehicle). Avoid using or storing the unit in dusty or humid areas or areas that are subject to high vibration levels.
- Remove the battery whenever the unit is not going to be used for an extended period of time.
- When operating solely on a battery, the unit's indicator becomes dim when the battery is depleted. Replace the battery immediately.
- If there is a battery in the unit while an AC adaptor is being used, normal operation will continue should the line voltage be interrupted (power blackout) or the power cord become disconnected.
- Should a malfunction occur (or if you suspect there is a problem) discontinue use immediately. Contact qualified service personnel as soon as possible.

*OUT:9VDC 200mA*
SPECIFICATIONS

Power Supply: 9V DC battery, 6F22(×1): AC Adaptor (PSA Series)
Current Draw: 20mA (9V DC)
Controls: Depth, Rate
Switches: Mode (PAN/V/Π), TREMOLO/V/Π), Effect On/Off
Indicators: Rate, Effect On/Off (serves also as battery check indicator)
Jacks: Input A (MONO)/ B, Output A/B, AC Adaptor
LFO Rate: 130ms to 14s
Residual Noise: Less than -90dBm (IHF-A)
Input Impedance A/B: 1MΩ (MONO: 500kΩ)
Output Load Impedance: More than 10kΩ
Dimensions: 70 (W) x 55 (H) x 125 (D) mm
                         2-3/4”x2-3/16”x4-15/16”
Weight: 400 g/14 oz.

* Specifications are subject to change without notice.

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