

the effect can be left, on and the pedal left in a fixed position to produce the 'parked wah' effect. To bypass the effect, push down on the front of the pedal again until the switch clicks and the effect is disengaged.

## MAINTENANCE

The tension of the rocker can be adjusted by using the Mission torsion block tension adjuster. Insert the hex key that was supplied with the pedal into the tension adjuster screw at the rear of the pedal underneath the rocker. Tighten the adjuster screw to increase the pedal tension. Loosen the adjuster screw to reduce the tension. Do not over tighten or damage can occur to the torsion block. If the adjuster screw is too loose, the pedal rocker can sometimes drop forward. If this should happen, simply tighten the adjuster screw until the rocker remains stable. It may be necessary to adjust the tension screw from time to time to compensate for use and environmental conditions such as very hot or cold weather, and after the pedal has been shipped or stored for long periods.

The rack and potentiometer shaft assembly has been lubricated at the factory. This should be sufficient for at least one year of normal use. If the mechanical action becomes sticky, scratchy or noisy, additional lubrication can be applied. Apply about a pea size of white Lithium grease to the rack.

For fixing to a pedalboard, we recommend using the Mission PR-1 Pedal Riser Kit. Do not attempt to screw the base plate to the pedal without the supplied rubber feet. Damage may occur if the rubber feet are omitted.

## SPECIFICATIONS

<b>Power</b>	External - 9v DC 2.1mm Center Pin Negative Internal - 9v Battery Power draw - < 1mA at 9v
<b>Potentiometer</b>	Internal resistance - 100K Ohm Taper - Custom Usage rating > 1M cycles
<b>Dimensions</b>	Base length at longest point - 9.9" Base width at widest point - 4.0" Height at highest point including feet - 3.25" Pedal length - 8.7" Pedal width at widest point - 3.0" Pedal width at narrowest point - 2.3" Weight - 3.5lbs

## SAFETY INSTRUCTIONS

- Read, Keep & Follow these instructions
- Heed all warnings
- Clean only with dry cloth
- Do not use this apparatus near water
- Do not expose the apparatus to dripping or splashing and ensure that no objects filled with liquids, shall be placed on the apparatus
- **WARNING:** To reduce the risk of fire or electric shock do not expose this apparatus to rain or moisture
- Unplug this apparatus during lightning storms or when unused for long periods of time
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
- Only use attachments/accessories specified by the manufacturer
- Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening."
- Refer all servicing to qualified service personnel. Service is required when the apparatus has been damaged in any way, such as:
  - power-supply cord or plug is damaged
  - liquid has been spilled or objects have fallen into the apparatus
  - the unit has been exposed to rain or moisture.
  - the unit is dropped or the enclosure is damaged
  - the unit does not operate normally or changes in performance in a significant way

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## USER GUIDE

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## INTRODUCTION

Congratulations on your purchase of the Mission Rewah Pro™ wah pedal. This product is designed to be intuitive to setup and operate, and to provide many years of trouble free service. However, we recommend that you take a few moments to read through this User Guide in order to get the best possible experience with your new pedal.

Wah pedals are a filter effect most commonly associated with guitars, but can also be used with bass, keyboards, and other instruments. The peak response of the filter is varied by moving the pedal rocker forwards and backwards. In the heel down position more of the high frequencies are filtered out giving a more bass sounding tone. As the pedal is moved towards toe down, the high frequencies are restored and the low frequencies filtered out giving a much brighter tone. The pedal can be used as a form of tone control by leaving the rocker in a set position, sometimes called a 'parked wah'. This has been used to great effect by many well-known musicians. However, the most common use of the wah pedal is the continuous rocking backwards and forwards on the pedal creating the famous 'wacker-wacker' effect present on so many of the greatest rock tunes in history.

## FEATURES

The RW-PRO features Mission's custom designed inductor. This is a very high quality part, of the type used in high end audio amplifiers. This inductor has some similar characteristics to the respected vintage 'halo' inductors used in some early wah pedals. Every inductor is assembled and tested by hand at a specialist facility in Hollywood, USA to ensure consistent performance. The RW-PRO also features four user selectable circuit modifications that can be used alone, or together to tune some of the tonal characteristics to help you reach that exact wah sound you are looking for.

## POWER

**Warning!** Do not attempt to remove the baseplate or change the internal battery while the pedal is connected to an external power supply and/or amplifier. Make sure that ALL external connections are removed before opening the pedal. To reduce the risk of damage, avoid touching any other components in the pedal. Do not attempt to use any power supply with

specifications other than those listed in this manual. Check all cables and power supplies for signs of damage before use. Do not connect damaged power supplies or cables. Replace cables or power supplies showing any signs of damage.

The RW-PRO can be powered either by an external power supply or an internal 9v battery. The power supply should be 9v DC center pin negative with a 2.1mm connector such as the Mission PS1-9VDC. For powering on a pedal board, Mission also recommends the Voodoo Labs Pedal Power 2+ and the Dunlop DC-Brick Multi-Power Supply. Check the Specifications section for more information on power supply requirements.

To replace the battery, first unplug the external power supply. Switch of the amplifier and remove the cables from the pedal to the amp and instrument. Unscrew and remove the four rubber feet and remove the base plate. Unclip and remove the battery and replace with a 9 volt equivalent. The battery life can be extended by unplugging the IN jack when not in use.

## CONNECTIONS

Connect your instrument to the jack marked IN with a standard ¼" mono (TS) instrument cable. Connect the jack marked OUT to your amplifier. When using the pedal in conjunction with other effects, it's usually recommended that the wah pedal be placed as early as possible in the signal chain. The exception is when using a vintage style fuzz pedal, in which case the wah should be placed after the fuzz. Exact placement depends on other effects involved and personal preference, so feel free to experiment.

Mission recommends musical instrument cables manufactured by Best-Tronics - [www.guitar-cable.com](http://www.guitar-cable.com) or Lava Cables - [www.lavacable.com](http://www.lavacable.com)

## SWITCH SETTINGS

The RW-PRO features four user switchable circuit modifications that can be selected to make changes to certain elements of the wah tone. The modifications can be used individually or in sequence with each other. The modifications are selected using a four-position switch block on the inside of the pedal.

**Warning!** Do not attempt to remove the baseplate or change

the internal battery while the pedal is connected to an external power supply and/or amplifier. Make sure that ALL external connections are removed before opening the pedal. To reduce the risk of damage, avoid touching any other components in the pedal.

To locate the switch block, first unplug the external power supply. Switch off the amplifier and remove all cables from the pedal to the amp and instrument. Unscrew and remove the four rubber feet and remove the base plate. The switch block is located on the left hand side of the circuit board. Toggle the switches using the tip of a ballpoint pen. The factory default setting is all switches OFF.

Sw1: Turning this ON will increase gain slightly and put the Q1 transistor into an area of soft saturation. This can add a small bit of pleasant overdrive to the output.

Sw2: When turned on, this switch lowers the filter's center frequency slightly, and reduces the width of the wah band, making for a more nasal sound.

Sw3: Turning on this switch significantly lowers the center of the filter band. Use this position when you need a more bass-heavy wah.

Sw4: With switch 4 on, gain is reduced slightly for cleaner sound. The bandwidth is also made wider to broaden the filter response. This is good with a clean amp setting for funk and reggae wah effects.

The switches will interact with each other to produce different tone modifications. One of our favorite setups is with 1-2-4 set On and 3 set OFF. This produces an all-around nice wah sound with the center band just a bit lower than with all switches off. There are no "bad" settings and there is no switch configuration that will harm the pedal, so experiment and have fun.

## OPERATION

The RW-PRO features a hard-wired True Bypass® switch that completely disconnects the signal from the wah circuit in bypass mode. This reduces the possibility of the pedal interfering with the instrument signal when the effect is switched off. To switch the effect on push down on the front of the pedal until the switch clicks and the effect is engaged. To operate the effect, rock the pedal backwards and forwards while playing. If desired