

reVOLVER IV

Micro looper and sound explorer pedal. Revision E

Features:

- Stereo In & Out.
- 47 seconds sample buffer.
- Forward and reverse play direction.
- Manual and automatic sample capture.
- Two pitch shifter types + random modes.
- Volume FX: fade in/out, tremolo, ring modulator.
- Filter FX: manual, envelope and LFO controlled lowpass filter.
- 7 working modes.

- 8 programmable sound presets.
- External controllers: expression pedal and/or dual footswitch.
- True bypass.

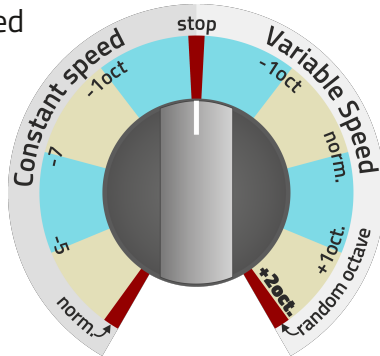


Demo video

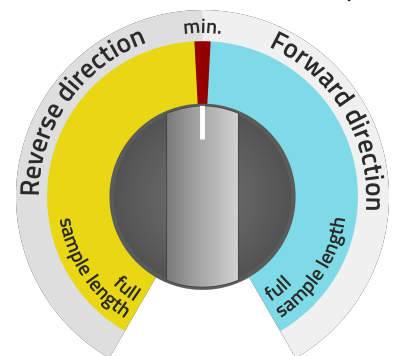
Controls:

PITCH/SPEED controls the two types of pitch shifter present on the pedal:

- 0-50% constant speed pitch down.
- 50-100% variable speed pitch control.
- Max: random octave effect.

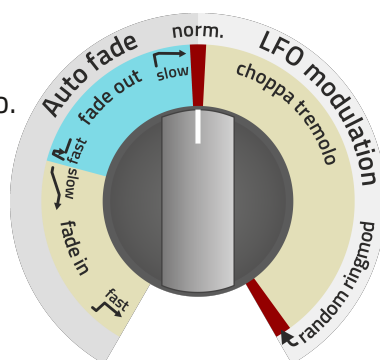


TIME controls the sample length. The range of the knob is automatically scaled to the recorded sample length.



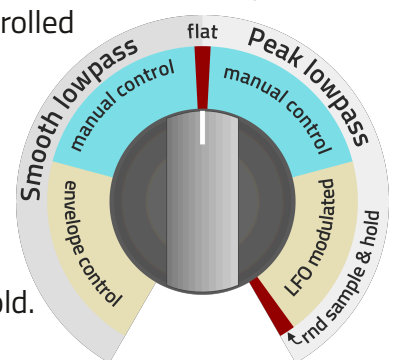
VOL FX controls various volume based effects:

- Fade in.
- Fade out.
- Square wave tremolo.
- Random ring modulator.



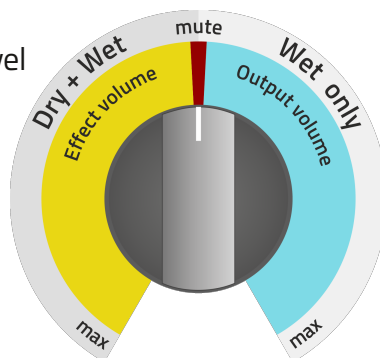
FILTER controls the onboard versatile lowpass filter:

- Envelope down controlled smooth lowpass.
- Manual smooth lowpass.
- Manual peak lowpass.
- LFO peak lowpass.
- Random sample&hold.



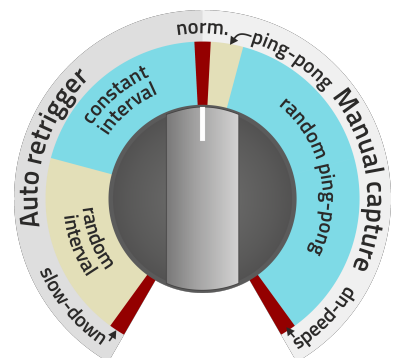
LEVEL/MIX controls the output volume and mix ratio:

- 0-50% Wet signal level Dry signal ON.
- 50-100% Wet signal level. Dry signal OFF.



MODE sets one of the 7 available operation modes:

- Normal play.
- Ping-Pong
- Random Ping-Pong
- Auto retrigger.
- Random retrigger.
- Speed up.
- Slow down.



TIP: The led bar shows a visual aid when changing the ranges of knobs: PITCH/SPEED, VOL FX, FILTER and MODE. Scan the QR code to see the video.

Footswitches:

On-Off

- Short click: 1. Effect Bypass.
2. Change preset in Select Mode.
- Hold Down: 1. Enter Preset Select Mode.
2. Activate new preset.

Capture

- Press and hold down: start new recording / new sample.
- Release: stop the recording, play new sample.
- Maximum recording length is 47 seconds.

Presets:

Selecting

1. Hold down the **On-Off** footswitch until the preset led starts to blink.
2. Press the **On-Off** footswitch to browse between presets.
3. Hold down the **On-Off** footswitch again to activate the new preset.



Editing Preset (no external controls used)

1. Hold down the **On-Off** footswitch and immediately press & hold down the **Capture**.
2. The On-Off red LED will blink while in Edit mode.
3. Adjust the knobs to taste.
4. Press the **Capture** footswitch to save the values, confirmed by a few quick LED blinks.
5. Repeat the step 1 to exit the Edit mode and return to normal operation.

TIP: Pedal remembers the last used preset and loads it upon the next power up.

Expression pedal:

Expression pedal can morph the sound between 3 distinct snapshots of all knobs settings and switch two additional presets at min and max positions.

To enter EXP edit mode:

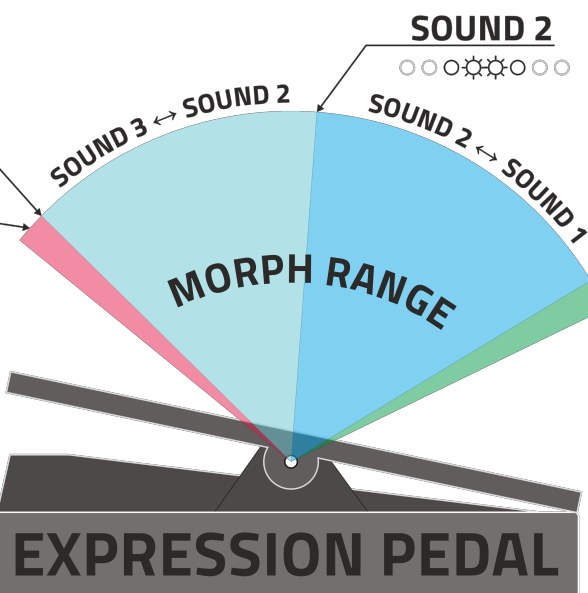
1. Press & hold ON-OFF
2. Press & hold CAPTURE

SOUND 3

MAX PRESET

- While in EXP edit mode:
- ON-OFF LED blinks slow, faster on save.
 - CAPTURE LED is OFF.
 - HOLD the CAPTURE to toggle the capture mode for the expression pedal (MIN Preset).

1. Move the expression pedal to one of the ranges.
2. Set the knobs for desired sound
3. Press CAPTURE to store the sound
4. Repeat for other exp pedal ranges
5. Hold down ON-OFF → CAPTURE to save & exit



Video: External controls

SOUND 1

MIN PRESET

Preset LEDs in EXP edit mode show the current range

- MIN PRESET
- SOUND 1
- SOUND 2
- SOUND 3
- MAX PRESET

Expression pedal - MIN/Heel Capture

MIN/Heel Capture is a special mode for the expression pedal, which, if enabled, allows to record new samples and modify them using the expression pedal only. Moving the pedal back to minimum position acts as pressing the **Capture** footswitch. This mode can be enabled/disabled by setting the expression pedal to the heel position and holding down the **Capture** footswitch while in Preset Edit Mode.

External footswitch:

Default mode

Tip-Sleeve footswitch: emulates an instant jump to the expression pedal's MAX Preset (toe value).

Ring-Sleeve footswitch: emulates an instant jump to the expression pedal's Sound 2 value (middle setting).

Momentary or Latching footswitch action can be set in the Preset Edit Mode.

Mirror mode

Tip-Sleeve footswitch: duplicates the functions of the Capture footswitch.

Ring-Sleeve footswitch: duplicates the functions of the On-Off footswitch.

Mirror mode is disabled in Preset Edit Mode, use the onboard footswitches while editing presets.

External footswitch in Preset Edit mode:

1. Both external footswitches are set to latching mode while in Edit mode.
2. Pressing the footswitch toggles the value between the heel/MIN position and Sound 2 for Ring-Sleeve footswitch and heel/MIN position and Toe/MAX for the Tip-Sleeve footswitch.
3. Holding down one of the footswitches toggles it's mode between latching or momentary. The change is confirmed by blinking one of the opposite leds on the led bar.

2 blinks = momentary, 3 blinks = latching mode.



Setup operations:

Input Gain

1. Power OFF the pedal.
2. Hold down the **On-Off** footswitch and Power UP the pedal.
3. The two main LEDs will start to blink in On-Off→Capture pattern indicating the Input Gain mode. Led bar shows the actual value.
4. Use the **Capture** footswitch to increase the gain or the **On-Off** footswitch to decrease it.
5. Press and hold the **On-Off** followed by **Capture** footswitch to save the setting and exit the Input Gain mode.

Default value, optimal for most applications is 3.

Preset SPLIT mode

1. Power OFF the pedal, plug in the external footswitch.
2. Hold down both external footswitches and Power UP the pedal.
3. Preset SPLIT will be **enabled**, signalled with preset led bar blinking first 4 leds:



4. Repeat the above steps to **disable** the function, indicated by the led bar blinking all it's leds.



Factory Reset

1. Power OFF the pedal.
2. Hold down both **On-Off**+**Capture** footswitches and Power UP the pedal.
3. Factory RESET will be performed confirmed by swiping back and forth a few times.



Alarm messages:

Expression pedal fail

this can happen if the plug polarity of the expression pedal is not compatible with the pedal or accidentally a mono TS jack is plugged into the EXP IN. In this case all the Preset LEDs will blink **2 times**.



Supply voltage too low

signals potential problem with the power supply. If the supply voltage drops below an acceptable level, the pedal will go into bypass mode and signal the failure by blinking all Preset LEDs **3 times**. Press **On-Off** to reboot the pedal. If it happens again, check the power supply. It means there are voltage drops, most likely due to insufficient output current. Try a 9VDC output/adaptor with a higher output current.



Scan here to see the setup instructions



Default presets explained

Technical specification:

- Input/Output: Mono TS Jack or Stereo TRS Jack
- Input impedance: 1Mohm
- Output impedance: below 1kohm
- AD/DA: 16bit/44.1kHz, 32bit internal processing
- Power: 9VDC, regulated adapter only, standard 5.5/2.1mm plug and polarity (center negative)
- Current consumption: 55mA
- Stereo True Bypass



Scan here for more details.

