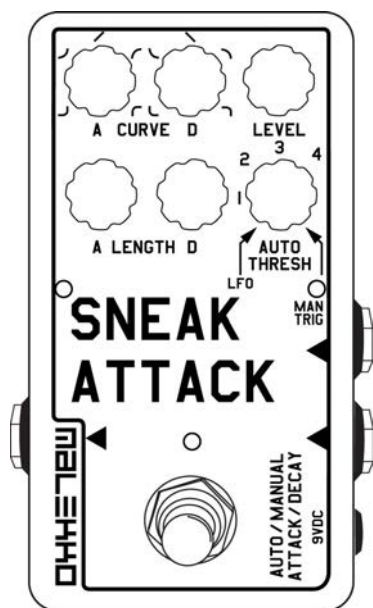


# **SNEAK ATTACK**

## **USER MANUAL**



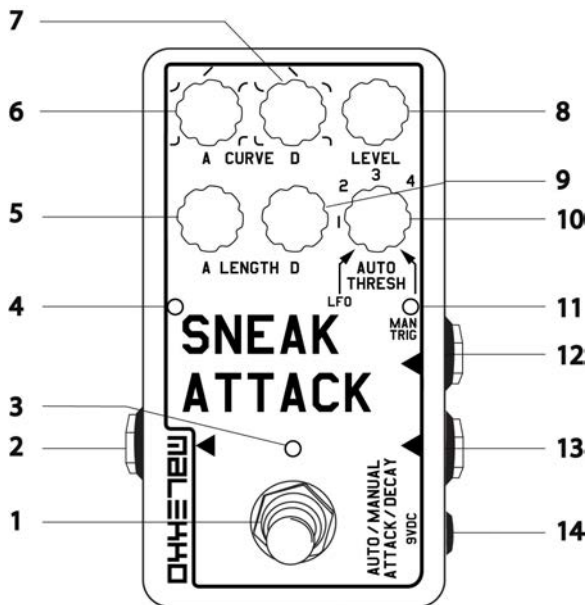


Sneak Attack is a digitally controlled analog VCA pedal that can also be manually triggered or used in a tremolo mode. The core of the pedal is an Attack/Decay envelope generator with separate length and curve controls for both the attack and decay segments, giving the user in-depth control of the shape of the envelope (or tremolo). The envelope can be triggered or cycled in several ways using the input signal, built in footswitch, Lil' Buddy footswitch or external clock/click track. Lil' Buddy also expands the feature set to include tap tempo and additional, unique control over the attack and decay.

### **Sneak Attack Features include:**

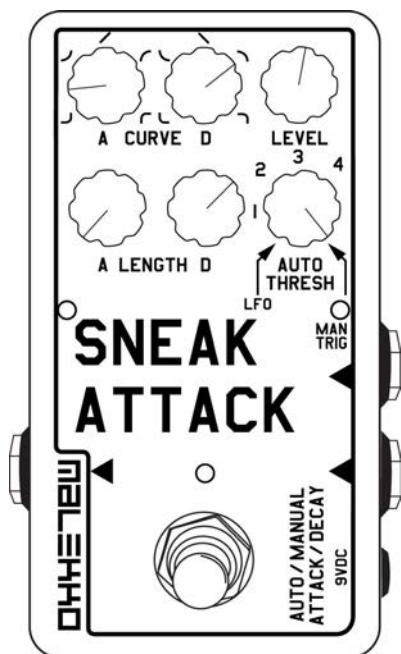
- Attack and Decay Curve control
- Attack and Decay Length control
- Volume/Depth control
- Threshold control with multiplication of tempo by 1,2,3 or 4 while in tap tempo mode
- Single Trigger Modes as well as Cycling (LFO) Modes
- Auto trigger using input signal threshold
- Manual trigger using built in footswitch in manual trigger mode (Attack only)
- Manual trigger using Lil' Buddy external footswitch
- Manual trigger using external click track
- Built in LFO mode cycles the A/D envelope
- Tap tempo LFO using Lil' Buddy external footswitch
- Tap tempo LFO using external click track

# CONTROLS AND CONNECTIONS



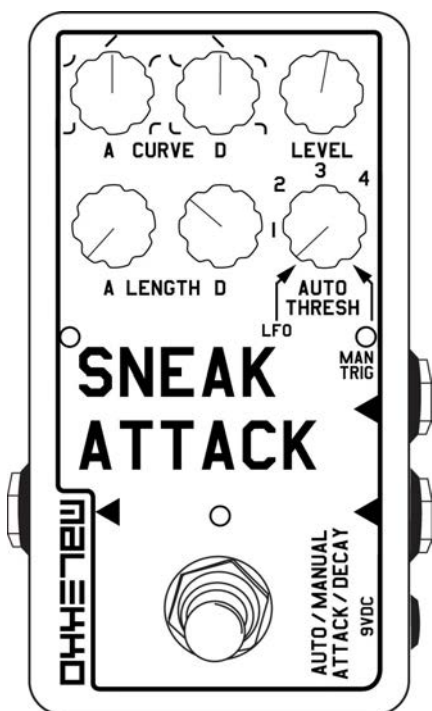
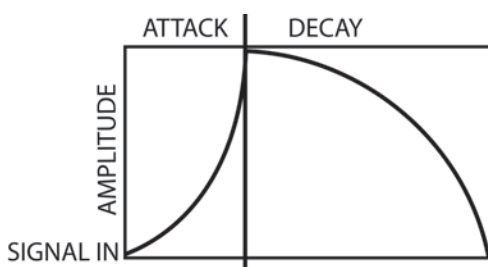
1. STOMP SWITCH - Turns effect on or off. (Must be held down one second to disengage the pedal when in MANUAL TRIGGER mode)
2. OUTPUT - Connect to amplifier
3. MAIN LED - Effect on/off
4. ENVELOPE LED INDICATOR - Indicates the status of the envelope
5. ATTACK LENGTH CONTROL – Adjusts the length of the attack. Ranges from approx 10 msec to 6 sec. With the knob at the 12 o'clock position, the length is approx 1 sec.
6. ATTACK CURVE CONTROL - Adjust the shape of the attack. The curve ranges from a very fast exponential shape (counter-clockwise) through linear and to a very fast inverted exponential (clockwise)
7. DECAY CURVE CONTROL - Adjust the shape of the decay
8. LEVEL - This is a dual function knob that is VOLUME in single trigger modes and DEPTH in LFO (TREMOLO) modes
9. DECAY LENGTH CONTROL - Adjust the length of the decay. Ranges from approx 10 msec to 6 sec. With the knob at the 12 o'clock position, the length is approx 1 sec.
10. AUTO THRESHOLD CONTROL - Sets the threshold for auto-triggering the envelope. All the way clockwise is MANUAL TRIGGER MODE. With the knob set all the way counter-clockwise, the LFO will continuously repeat (TREMOLO) mode. When in TAP TEMPO MODE (Lil Buddy plugged in), you can also multiply the tempo by 1, 2, 3, or 4 by turning the AUTO THRESHOLD knob clockwise from LFO.
11. MAIN TRIGGER LED - Blinks when Attack/Decay envelope is triggered or as tempo indicator if in TAP TEMPO MODE
12. JACK FOR LIL BUDDY OR CLOCK INPUT - TAP TEMPO or external clocking / click track
13. INPUT JACK - Connect instrument cable
14. 9VOLT DC POWER JACK - only for use with standard 2.5mm neg-tip 200mA 9volt DC power supply

# ATTACK AND DECAY CONTROLS



In EXAMPLE 1, MANUAL TRIGGER MODE will only trigger an attack envelope. To have a full Attack/Decay envelope, you need to plug in a Lil Buddy (or equivalent).

EXAMPLE 1: Settings to the left will create an envelope with a rather extreme curved ramp in attack and a longer, curved decay time that can be manually triggered.

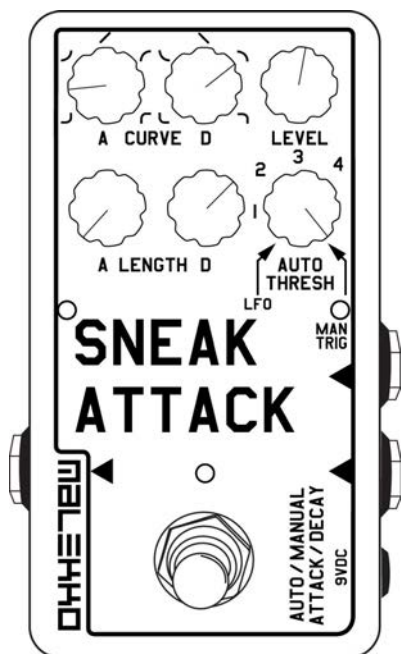


With the curve controls over Attack and Decay, you can create unique LFO (low frequency oscillation) or TREMOLO shapes and envelopes.

EXAMPLE 2: Settings to the left will create a triangle shaped, continuous LFO (or TREMOLO). To change tempo, adjust Attack/Decay pots.



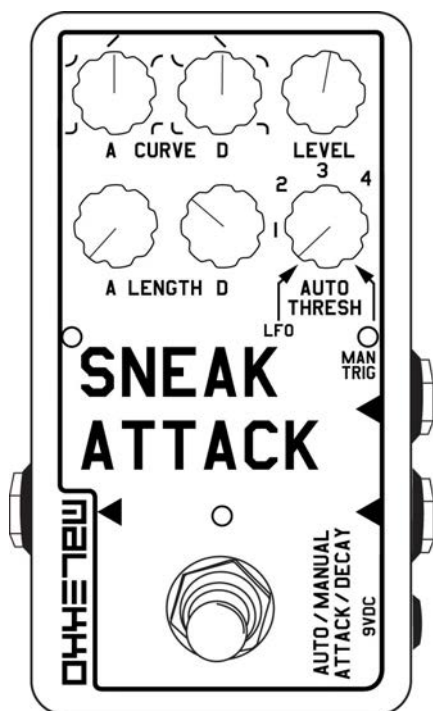
# TRIGGERING, CYCLING AND TAP TEMPO



The Sneak Attack envelopes can be triggered/fired in a few different ways.

## SINGLE AND MANUAL TRIGGER MODES:

- Auto trigger based on input signal threshold
- Auto trigger using input signal threshold.
- Manual trigger using built in footswitch in manual trigger mode (Attack only).
- Manual trigger using Lil' Buddy external footswitch.
- Manual trigger using external click track.



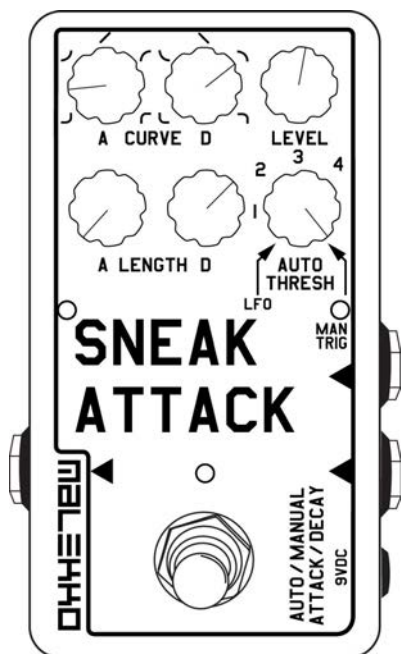
## LFO AND CYCLING MODES:

- LFO mode cycles the A/D envelope (continuous tremolo)

## TAP TEMPO AND MULTIPLYING:

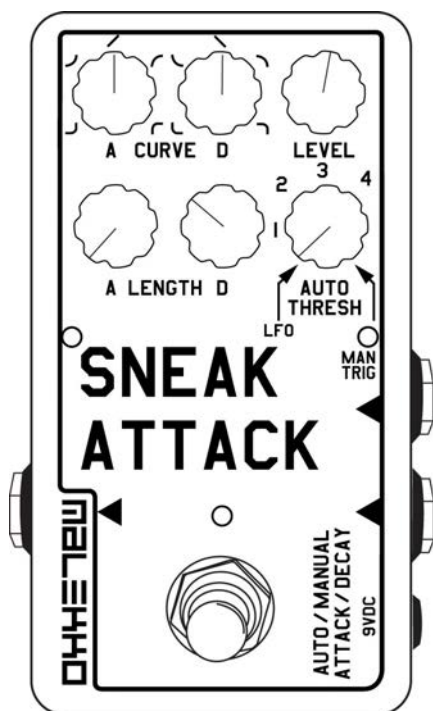
- Plugging in LIL BUDDY automatically puts Sneak Attack in TAP TEMPO mode. When in TAP TEMPO MODE, you can multiply the tempo by 1, 2, 3, or 4 by turning the AUTO THRESHOLD knob counterclockwise from LFO.
- TAP TEMPO LFO using external click track.

## DUAL MODES OF LEVEL CONTROL



When the AUTO THRESHOLD knob is set to MANUAL TRIGGER, LEVEL functions as VOLUME control for the attack and decay.

To reset volume, turn LEVEL control all the way left then all the way right. Now set your envelope volume.



If the AUTO THRESHOLD knob is set to LFO, LEVEL functions as depth control over the the LFO (or TREMOLO).

To reset depth, turn LEVEL control all the way left then all the way right. Now set your LFO depth amount.

## **BASIC OPERATION AND SAFETY**

1. Connect to an industry standard 9 Volt DC power supply! Incorrect voltage and AC power supplies will damage your pedal and void the manufacturer's warranty! We also recommend using our Malekko 9 Volt Wall Wart, available through our website.
2. Do not use this apparatus near water.
3. Clean only with dry cloth.
4. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
5. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
6. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
7. Unplug this apparatus during lightning storms or when unused for long periods of time.
8. No user serviceable parts inside. Refer all servicing to qualified service personnel. Servicing 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 apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
9. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
10. Refer to labels on the unit, including bottom cover, or other markings and pertinent information.

## **WARRANTY**

This product is covered by the Malekko Heavy Industry warranty, for one year following the date of purchase. This warranty covers any defect in the manufacturing of this product. This warranty does not cover any damage or malfunction caused by incorrect use – such as, but not limited to, power cables connected backwards, excessive voltage levels, or exposure to extreme temperature or moisture levels.

The warranty covers replacement or repair, as decided by Malekko Heavy Industry. Please visit our website [malekkoheavyindustry.com](http://malekkoheavyindustry.com) to obtain full warranty information and to register your product for coverage.