

## REVOLUTIONARY TONE

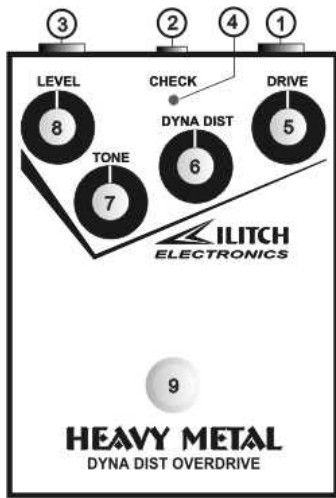


Fig. 1

Designed, assembled and tested in USA.

## CONNECTORS and CONTROLS (Fig 1):

- 1 INPUT** - Female Jack to connect the output of your Guitar, or another effect. The Input Jack activates the internal 9V battery. NOTE: Leaving a chord plugged into the Input jack when not in use will drain the battery even if unit is off.
- 2 DC Jack** - 2.1mm Center pin for external powering of the pedal (Turns off the battery when plugged in). IMPORTANT: Use only 9V Regulated DC Adapter with "+" on the Ring and "-" on Center.
- 3 OUTPUT** - Female Jack to connect the pedal with next pedal in the signal chain, or the Amplifier.
- 4 LED** - Indicates either the effect is ON or OFF.
- 5 DRIVE** - Wide range gain control lets you adjust the overdrive and/or distortion level from very light to red-hot overdrive and highly saturated distortion.
- 6 DYNA DIST** - Mix control lets you adjust the amount of smooth, tube-type overdrive (full counter clockwise DYNA MODE) with a more aggressive, hard edged, harmonically rich fuzz distortion (full clock-wise - DIST MODE) and all points in-between.
- 7 TONE** - Passive, top end roll off control, lets you clean up your tone, when maxing out the DRIVE control. TONE at MAX (full clock-wise) has a wide band range so you don't lose any of your original tone. Decreasing the TONE will reduce the top-end, creating darker tone, without getting muffled.
- 8 LEVEL** - Smooth, logarithmic control lets you adjust the final output level (active when the Pedal is ON).
- 9 ON-OFF** Footswitch - 100% True bypass switching.

This is the ultimate in heavy metal overdrive and distortion pedals. The Heavy Metal Dyna Dist Overdrive pedal has huge gain (up to 58 dB!) and delivers slamming, lower harmonic distortion. Great variety of tones from a screaming hard overdrive to thunderous distortion with jaw dropping harmonics. In the Dynamic Overdrive setting (Dyna Dist control full counter clockwise) the tone is a high gain, overdriven tube tone. Increasing the Dyna Dist (rotating clockwise) adds incredible lower harmonic distortion.

**TRIPLE MAX THREAT:** The **HEAVY METAL** Dyna Dist Overdrive pedal is designed with super high internal gain so you can get a huge variance of dramatic tone combinations. Maxing out the LEVEL, DYNA DIST, and DRIVE controls will send your signal into a harmonically saturated, massively distorted, overdriven signal that may over-load your amplifier producing constant feedback. Simply adjust your controls, reducing the LEVEL, DYNA DIST and DRIVE to achieve the best tone for your specific guitar and amplifier.

To have better noise performance we recommend using a battery powering, when do recordings.

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## HEAVY METAL Technical Specifications:

1. 100% True Bypass Heavy Duty ON-OFF switching.
2. Bright LED indicator
3. 1/4" Input and Output female Jacks
4. 500K Ohm Input Impedance
5. Less than 10K Ohm Output Impedance
6. Max. Gain - DRIVE @ Max.  
DYNA Mode (DYNA DIST @ MIN): >48 dB  
DIST Mode (DYNA DIST @ MAX): >58 dB
7. Unity gain Noise: < -110 dBu\*
8. Max Input level: > -3dB dBu
9. Max Output Signal: > +3 dBu
10. DC Power supply: Battery or Regulated Adaptor ("+" on Ring; "-" on Center): 9V +/- 0.5 V
11. Current consumption @ 9V DC:  
Less than 4mA when "OFF"  
Less than 6mA when "ON"  
\* 0 dBu = 775mVrms

Serial Number:.....

Sound test: .....  
 Electrical test: .....

## Terms and Limited Warranty

### RETURNS & EXCHANGES

Ilitch Electronics offers to the original purchaser the following terms of Limited Warranty:

1. Four weeks money back policy (excluding shipping and handling) for customers not satisfied with the purchase.
  2. One year for all moving parts (i.e. - pot, switch, jack) of the product.
  3. Two years for all non-moving parts (i.e. - capacitor, IC, transistor, etc.) of the product.
- Ilitch Electronics reserves the right, based on visual observing and electrical measuring, to determine what has caused a defect. Damages caused by accident, abuse, alteration, or misuse are not covered by this warranty. Product appearance and normal "wear and tear" (worn paint, scratches, etc.) are not covered by this warranty.

Customer's Name:.....

Date of purchasing:.....  
 Notes: .....

## Congratulations on your purchase of ILITCH ELECTRONICS HEAVY METAL DYNA DIST OVERDRIVE

### Why does MAMP design create superior overdrive and distortion?

Superior overdrive and distortion tones are the result of keeping the dynamics and components (harmonics, phase relations) of the original signal intact. The electric guitar signal is a very natural and complex signal. It contains many high order harmonic components, strongly related with the fundamental frequency. The signal also contains very complex natural phase shifting and relationship of all its components. In addition, the guitar signal has more than 80dB of dynamic range, which makes our task to overdrive/distort such a signal even harder.

Using any of the popular methods of "direct" distorting such as with Op amps, Germanium transistors, Diodes, Digital signal processing, etc., results in the loss of the natural and complex components, their time relations, phase shifting and dynamics. Some of these methods lose up to 90% of the original guitar signal, masking the original tone of your guitar. This is why some overdrive/distortion pedals sound "muddy", making a guitar with great tone sound like a guitar with lousy tone.

With the new MAMP design, all signal components are presented in the overdriven/distorted output. The result is an overdriven/distorted output signal that contains the original harmonic components from the instrument with their natural dynamics, time relation and phase shifting. You hear the tone of the guitar - not a distorted, generic tone. The overdrive responds dynamically to your input signal: pick softer and/or turn your guitar volume down and the tone will clean up; play more aggressive and/or increase guitar volume and the pedal will respond by distorting more.

Because the MAMP design also keeps all of the components of your original signal - harmonics, phase relations - with the distorted signal, your leads will stand out with more harmonic flavor, and your chords will have more character and clarity without getting muddy.

While MAMP can be used with any guitar, its value of retaining the original signal is most apparent when used with guitars with great tone. With MAMP design, the guitar's unique, natural tone can still be heard.

The all-analog MAMP design also means you get superior tone and consistent performance at all volume levels.

## HEAVY METAL

### Technical Tips:

#### PLACEMENT OF PEDAL IN EFFECTS CHAIN:

It is best to have the Dyna Dist Overdrive pedal connected directly to your guitar so that this pedal is first in your effects chain. The reason is that the dynamics of the pedal work with the dynamics of your guitar. If you place another pedal without true bypass in-between your guitar and the Dyna Dist Overdrive pedal, you will decrease this relationship and not get the full effect of the pedal design.

#### POWER SUPPLY:

The Dyna Dist Overdrive pedal can be powered by a 9 volt battery or by using a Regulated 9 volt wall wart power adapter. Use of any other type of power supply may cause the unit to malfunction and will void any and all warranties on the unit.

#### BATTERY INSTALLATION:

Remove the 4 screws located on back of pedal using a Phillips screwdriver. Connect 9 volt battery to battery Clip making sure that the battery's positive terminal is connected to the positive terminal of the battery Clip. Slide battery into the battery holder. Replace bottom plate and 4 screws.

#### USAGE INSTRUCTIONS:

After connecting power source and connecting the pedal in-line with your guitar and amp, you are ready to start experimenting with the pedal's controls. The Dyna Dist Overdrive pedals are designed with a wider range of control than most pedals available. Because of the wide range and high gain, maxing out all of the controls (Level, Tone, Dyna Dist and Drive all at full clock-wise position) will give you a massively distorted, signal generating the unit's maximum noise level. While it is safe to play at this setting, you may find that it is too extreme. Simply adjust the levels to suit your specific tonal needs and dial in your exact tone.

#### GETTING STARTED:

To get an idea of how the controls work and how the pedal can dynamically respond to your playing - set LEVEL control to center 12:00 position, set TONE to full clock-wise, set DYNA DIST to full counter-clockwise position, and set DRIVE to center 12:00 position. Play your guitar at full volume. Next decrease the guitar's volume. Notice that the output decreases. This dynamic works whether you decrease the guitar's volume or change your picking attack. More aggressive picking will yield more aggressive output. Less aggressive picking will decrease the output, making your tone cleaner. Now increase DYNA DIST control (rotating clockwise). Notice more harmonic distortion is added. Putting Dyna Dist in full clockwise position will max out the harmonic content. Decrease your guitar volume and notice that the output level stays almost constant at the level you set with the DRIVE.