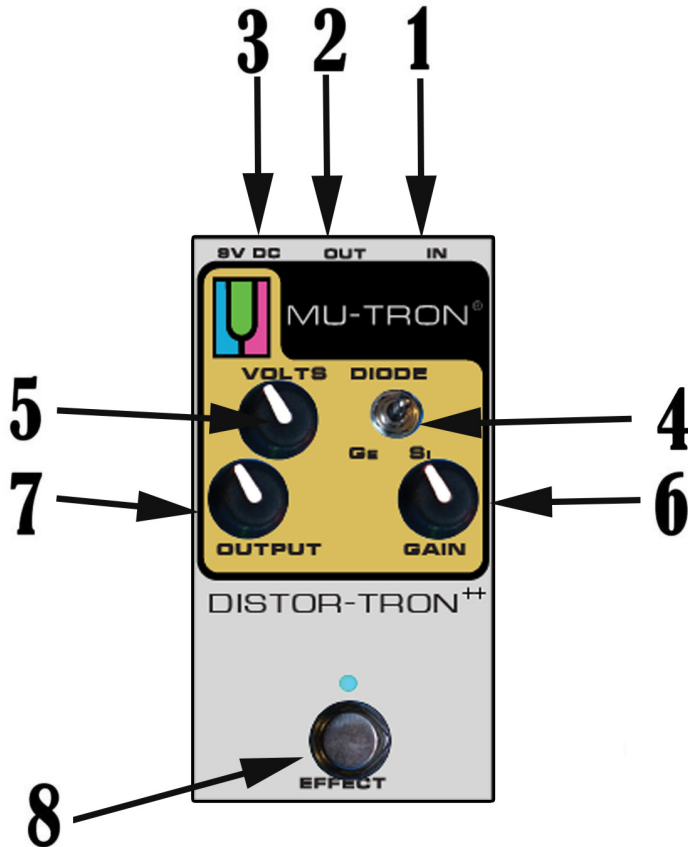


DISTOR-TRON++

Quick Start Guide



1. IN: A standard 1/4"(TS) input jack.

2. OUT: A standard 1/4"(TS) output jack sending a mono output signal to whatever comes next in your signal chain.

3. POWER: The DISTOR-TRON++ runs on a 9V DC power supply center negative, draw 7mA.

4. DIODE: Choose between Germanium or Silicon diode pairs. Germanium diode will provide a more saturated signal with less headroom. Silicon provides more of a modern clipping with high-headroom. Silicon works better when a cleaner, boost signal is desired.

5. VOLTS: Controls the amount of voltage going to the LM741 operational amplifier. As the voltage drops the LM741 begins to produce asymmetrical clipping. This is also known as "sagging" as it occurs when a 9V battery is dying. This distortion sound is easily achieved with the DISTOR-TRON++.

6. GAIN: Controls the amount of gain applied in drive stage. When fully turned counter-clockwise, the gain will be defeated and the effect may be used more as a clean boost using level knob. When the knob is turned clockwise, the tone will become more saturated and harmonic overtones will become more present. **CAUTION:** Depending on the impedance level of the instrument, too much gain may cause a microphonic "squeal". Please use accordingly and do not scare your bandmates or the audience.

7. OUTPUT: Controls the master output volume of the effected signal. As you increase LEVEL, decrease GAIN to maintain an effected signal close to that of the bypassed signal.

8. EFFECT FOOTSWITCH: Determines whether the DISTOR-TRON++ effect is engaged or bypassed.

- EFFECT LED:

When the blue LED is OFF, the DISTOR-TRON++ effect is bypassed.

When the blue LED is ON, the DISTOR-TRON++ effect is engaged.

For more information on the DISTOR-TRON++ please visit mu-tron.com



Operating Instructions:

The Mu-Tron DISTOR-TRON++ is a diode based clipping effect which has great range of distortion sounds. The DISTOR-TRON++ has both Germanium and Silicon diode pairs to allow for a more vintage distortion or a more modern distortion. The DISTOR-TRON++ also provides control to “sag” the voltage rails to the LM741 operational amplifier. This allows for an asymmetrical clipping stage which provides an even wider array of distortion sounds. The pedal is very flexible in terms of combinations between tone and saturation. The DISTOR-TRON++ sits well after wah-wah and octave effects and before modulation, delay, and reverb. While the DISTOR-TRON++ is designed to push the tubes on traditionally clean amps such as Fender blackface types, it can also push a Marshall into hyperdrive or even be used to “beef-up” the front end of sterile solid-state type amplifiers or mixing consoles. The DISTOR-TRON++ has the same quality, ruggedness, and reliability that makes Mu-Tron the first choice of professional musicians.

Sample Settings



Modern Edge



Randy Crunch



Mr. Browntone

SAFETY INFORMATION

FOR YOUR PROTECTION, PLEASE READ THESE SAFETY INSTRUCTIONS COMPLETELY BEFORE OPERATING THE PRODUCT AND KEEP THIS MANUAL FOR FUTURE REFERENCE.

CAREFULLY OBSERVE ALL WARNINGS, PRECAUTIONS AND INSTRUCTIONS ON THE PRODUCT AND DESCRIBED IN THE OPERATING INSTRUCTIONS SUPPLIED WITH THE PRODUCT.

POWER SOURCE - CONNECT THE PRODUCT TO A POWER SUPPLY ONLY OF THE TYPE DESCRIBED IN THE OPERATING INSTRUCTIONS OR AS MARKED ON THE PRODUCT.

POWER-CORD PROTECTION - ROUTE THE POWER CORD SO THAT IT IS NOT LIKELY TO BE WALKED ON OR PINCHED BY HAVING OBJECTS PLACED ON IT, PAYING PARTICULAR ATTENTION TO THE PLUGS, RECEPTACLES, AND THE POINT WHERE THE CORD EXITS FROM THE PRODUCT.

WHEN NOT IN USE - UNPLUG THE POWER ADAPTER CORD OF THE PRODUCT FROM THE OUTLET WHEN LEFT UNUSED FOR A LONG PERIOD OF TIME. TO DISCONNECT THE CORD, PULL IT OUT BY GRASPING THE POWER ADAPTER. NEVER PULL THE POWER ADAPTER PLUG OUT BY THE CORD.

AC RECEPTACLE - CHECK TO MAKE SURE THAT THE AC RECEPTACLE HOLDS THE POWER ADAPTER PLUG FIRMLY AND SECURELY. IF THE POWER ADAPTER IS LOOSE, CONTACT YOUR ELECTRICIAN TO REPLACE THE DEFECTIVE AND UNSAFE AC CONNECTION.

FOREIGN OBJECTS - BE CAREFUL THAT FOREIGN OBJECTS AND LIQUIDS DO NOT ENTER THE ENCLOSURE THROUGH OPENINGS.

CLEANING - UNPLUG THIS PRODUCT FROM THE WALL OUTLET BEFORE CLEANING. DO NOT USE LIQUID CLEANERS OR AEROSOL CLEANERS. USE A DAMP CLOTH FOR CLEANING.

WARNING TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER(OR BACK). NO SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CALIFORNIA PROPOSITION

65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information: www.P65Warnings.ca.gov

SERVICE

UNPLUG THE PRODUCT FROM THE WALL OUTLET AND CONSULT QUALIFIED SERVICE PERSONNEL WHEN:

- THE POWER CORD OR THE PLUG HAS BEEN DAMAGED.
- A SOLID OBJECT OR LIQUID HAS FALLEN INTO THE ENCLOSURE.
- THE PRODUCT HAS BEEN EXPOSED TO RAIN OR MOISTURE.
- THE PRODUCT DOES NOT APPEAR TO OPERATE NORMALLY OR EXHIBITS A MARKED CHANGE IN PERFORMANCE.
- THE PRODUCT HAS BEEN DROPPED, OR THE ENCLOSURE DAMAGED.

DO NOT ATTEMPT TO SERVICE THE PRODUCT BEYOND THAT DESCRIBED IN THE OPERATING INSTRUCTIONS. FOR ALL OTHER SERVICING, REFER TO QUALIFIED SERVICE PERSONNEL ONLY.

WARRANTY INFORMATION

MU-TRON OFFERS A ONE-YEAR LIMITED WARRANTY ON ALL OF OUR PRODUCTS.

IN THE UNLIKELY EVENT OF A MALFUNCTION DUE TO COMPONENT FAILURE OR DEFECTIVE WORKMANSHIP, CONTACT US AT MU-TRON.COM FOR RETURN AUTHORIZATION. WE WILL QUICKLY RESPOND WITH ASSISTANCE AND WILL THEN REPAIR OR REPLACE YOUR PRODUCT AND SEND IT BACK.

PLEASE NOTE THAT WE CANNOT REPLACE A PRODUCT UNTIL WE HAVE RECEIVED IT HERE AT THE FACTORY.

USER-GENERATED MALFUNCTIONS DUE TO DROPPING, INTENTIONALLY BREAKING, ATTEMPTING TO REPAIR DURING THE WARRANTY, OR OPENING THE PRODUCT WILL NOT BE COVERED BY THE WARRANTY. YOU MAY SEND THE UNIT TO US AND WE WILL GIVE YOU AN ESTIMATE REPAIR CHARGE, AND UPON YOUR AUTHORIZATION WE WILL REPAIR AND RE-CALIBRATE THE PRODUCT.

LIMIT OF LIABILITY REGARDING THE PRODUCT AND ITS POWER SUPPLY

MU-TRON ASSUMES NO RESPONSIBILITY FOR DAMAGE TO THE PRODUCTS, OTHER EQUIPMENT THEY MIGHT CONNECT TO BY ANY MEANS, OR ANY OTHER PROPERTY DAMAGE, INJURY OR DEATH RESULTING FROM IT'S USE OR MISUSE.

IT IS POSSIBLE THAT CONNECTING THE TRANSFORMER TO AN INCORRECT VOLTAGE MAY RESULT IN INJURY OR DEATH TO ANYONE OPERATING THE EQUIPMENT.

USE OF ANY OTHER POWER ADAPTER NOT SUPPLIED BY MU-TRON IS NOT RECOMMENDED.