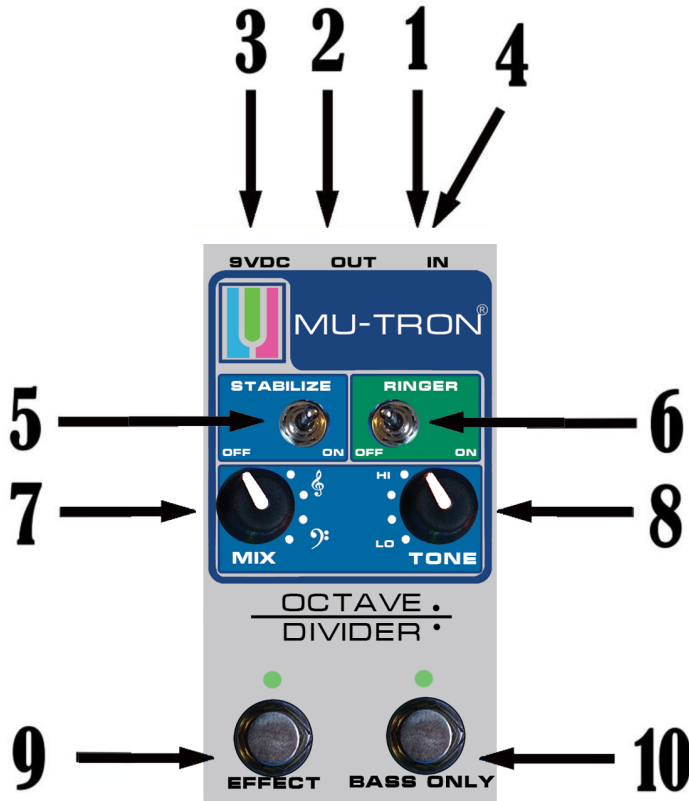


OCTAVE DIVIDER

Quick Start Guide



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

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

3. **POWER:** The OCTAVE DIVIDER runs on a 9V DC power supply center negative

4. **AUX:** A 1/8" (TS) output jack used to send dry unaffected signal to other effects or to a seperate amplifier

5. **STABILIZE TOGGLE SWITCH:** Eliminates all "hunting" and "breaking up" of sub-octave for guitar or keyboards.(Not usually necessary for wind instruments).

OFF: Does not attempt to track pitch variations. Can allow for "gurguling" and ring modulation.

ON: Attempts to track note throughout pitch variations such as bends and vibrato. Provides a "smoother" feel.

6. RINGER TOGGLE SWITCH:

OFF: Bypasses "Green Ringer" circuit

ON: Activates "Green Ringer" circuit. Generates a tone one octave up and slight ring modulation effect. Works well with fuzz and distortion pedals placed after OCTAVE DIVIDER. For best results, use neck pickup and roll tone knob into "off" position.

7. **MIX:** Blends original sound with sub-octave. Full treble is all original tone; full bass is all sub-octave signal.

8. **TONE:** Controls the tone of the octave-down signal. Full LOW is a mellow, brassy sound; full HIGH is a brighter, "fuzzy electronic bass" sound.

9. **EFFECT FOOTSWITCH:** Determines whether the OCTAVE DIVIDER effect is engaged or bypassed.

ON-OFF LED: When the LED is OFF, the effect is bypassed. When the LED is ON, the effect is engaged.

10. **BASS ONLY FOOTSWITCH:** Determines whether the octave-down signal is solo. The dry signal and the "Green Ringer" signal will both be bypassed when footswitch is engaged.

BASS ONLY LED: When the LED is OFF, all signals are present. When the LED is ON, the dry signal is bypassed, as is the "Green Ringer" signal if it is engaged.

For more information on the OCTAVE DIVIDER please visit mu-tron.com

Operating Instructions:

The Mu-Tron OCTAVE DIVIDER makes the full, harmonically rich option of “playing in octaves” available to all horn and stringed instrument players. This live effect is created by newly developed circuitry that analyzes the original signal and “pairs” it with the note one octave below, matching tone color and dynamics over an exceptionally wide range. The unique “stabilization” circuit (patent pending) enables the Mu-Tron OCTAVE DIVIDER to “lock into” the musical tone and sound a simultaneous sub-octave with accuracy that is not found in any other device. An important advance in electronic music technology, the OCTAVE DIVIDER has the same quality, ruggedness, and reliability that makes Mu-Tron the first choice of professional musicians.

Features:

1. The ability to preserve dynamics and harmonic content of the original signal in the sub-octave.
2. A stabilization circuit that “locks into” all single-voiced signals.
3. A tone color control for sub-octave.
4. A ringer circuit for harmonic emphasis of upper tones, and special multi-note effects.
5. A novel mixing circuit with BASS ONLY switch for extended range and dramatic effects.
6. Auxiliary impedance-compensated output.
7. LED (light emitting diode) indicators to show operating status of effects.
8. 9V DC powered in rugged Mu-Tron enclosure.

Use with other devices

The OCTAVE DIVIDER can be used successfully with many other devices, but the OCTAVE DIVIDER must be the first to receive the signal from the instrument. The OCTAVE DIVIDER followed by a Micro-Tron IV or a Mu-Tron BI-PHASE are especially effective.

Ringer

Provides multiple effects of distortion, extra note generation, and a kind of “octave up” effect. RINGER effect is added to output, regardless of MIX. The more “pure” the instrument tone, the stronger the “octave up” effect. For the strongest “octave up”, turn MIX full down to eliminate the originally played register. STRINGED INSTRUMENTS: neck pick-up tone down, volume up full. (GUITAR, play from tenth fret up on all strings.) Two notes played simultaneously will beat with each other, producing “extra” notes. Try parallel fourths, fifths, or other simple chords. MIX full up. WIND INSTRUMENTS: play with clear “round” tone.

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
ATTENTION: RISK OF SHOCK. DO NOT OPEN.



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED “DANGEROUS VOLTAGE” WITHIN THE PRODUCT’S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT, WITHIN A TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.



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

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.