

# Amplification *Taurus*

## OPERATING MANUAL Analog MultiDrive



Designed by musicians for musicians

## **Thank you for your trust and choosing our Multidrive effect.**

Taurus MULTIDRIVE Multidrive is an effect designed with three different distortion sections: OVERDRIVE, DRIVE, HIGH GAIN. Each section is controlled by footswitch. They also can be chosen by external controller that can be plug into the pedal.

Every section is equipped with its own tone, gain and signal level knobs. It means that you can adjust the sound and volume of each section individually and switch between them while playing.

The tone can be additionally adjusted with the CHARACTER knob. It allows selectively change the sound with a single potentiometer, from a mild dark tone, throughout a nasal and middle bright, up to a MODERN thick, contouring sound.

In addition, there is also a BRIGHT/ DARK two-way switch that emphasizes the timbre or suppresses the high frequencies of sound.

Additionally the Taurus MULTIDRIVE effect is equipped with a MIX feature which allows mixing all channels. Personalized sound can be created by mixing every sections of the effect in any configuration, one, two or three sections can be used simultaneously. It gives great opportunities to create very own, individual guitar sound.

There is another feature that increase sound's high dynamics. This is a CLEAN BLENDER that allows blend the natural, clean sound of the guitar with the distorted signal of the pedal. The signal can be mixed in two ways. Mix of full-bandwidth CLEAN sound or CLEAN sound with a cut-off bandwidth, emphasizing only the PUNCH in the distorted sound, i.e. the feeling of dynamic attack and sound's thickness of the distorted guitar. The Hi-CUT mixing CHARACTER switch is used for this purpose.

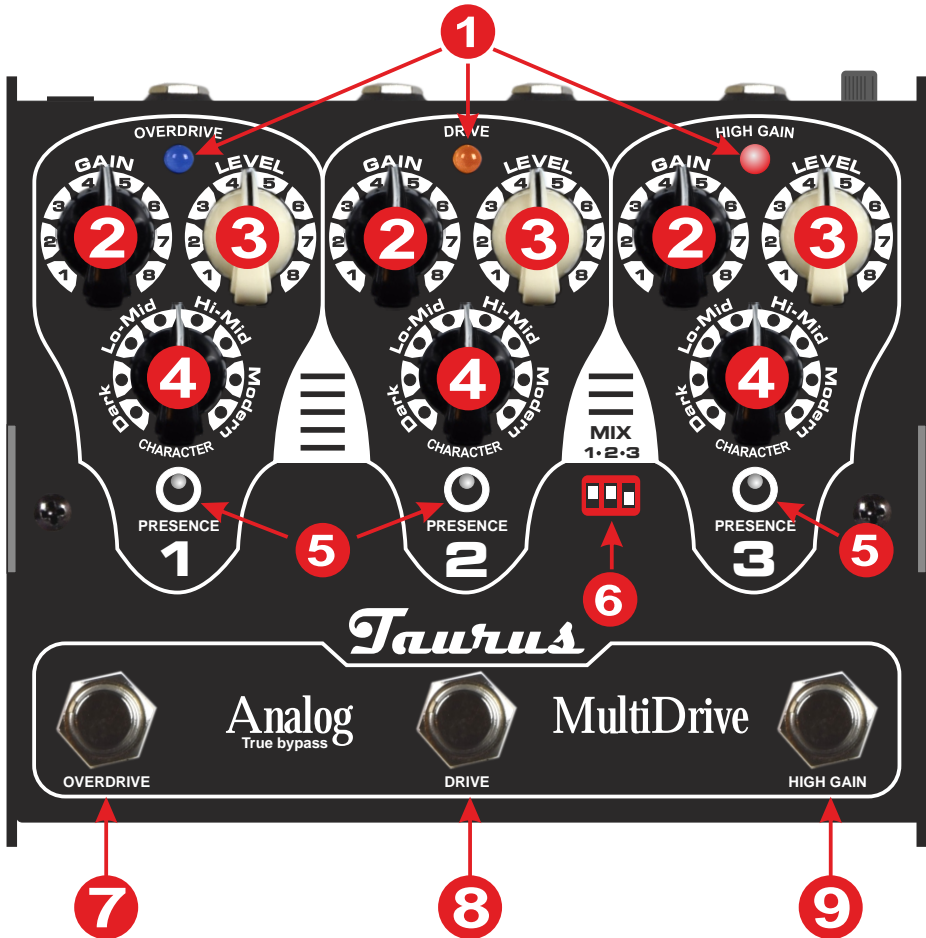
DRIVE has been designed so that its dynamics and response to sound articulation are the same as in classic tube amplifiers. If these are important preferences for you, we hope the Taurus MULTIDRIVE will become your favorite tool to complement the sound of your guitar. We are convinced that the MULTIDRIVE has all the necessary features and sound options that a guitarist expects from this type of effects.

# Specification

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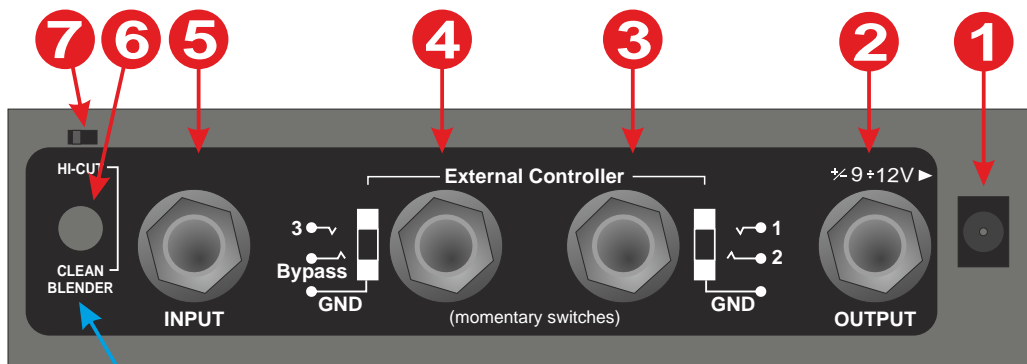
- 3 sound sections:: OVERDRIVE, DRIVE, HIGH GAIN.
- MIX – selector allowing mixing any sections together
- GAIN - controls the amount of distortion.
- LEVEL - adjusting the volume level of each section
- CHARACTER - controls the tone of the sound - from warm and smooth to bright and cutting.
- PRESENCE - high frequency boost
- CLEAN BLENDER – possibility to mix the natural sound of the instrument with the distorted sound.
- HI-CUT – a switch that changes the character of the sound, which is mixed using the CLEAN BLENDER control. You can mix the natural signal with the full band or a limited band emphasizing only the mid band, which gives a feeling of dynamics and mass to the guitar sound.
- External Controller – inputs for connecting an external controller enabling section selection and effect switching off (ON/OFF pulse control).
- Zasilanie 9-12V: DC stabilized power supplies in the range from 9V to 12V can be used. Current consumption 50mA.
- Autodetekcja polaryzacji napięcia zasilania - allows using either centre-positive or negative polarity on power supply
- DC ASSISTANT: protection against signal loss. If disconnected or the voltage is lower than 6V the effect is automatically switched to the "bypass" mode
- TRUE-BYPASS - in OFF mode your instrument's original signal goes through, bypasses all electronic components.
- Dimensions: (H x W x D) 50 x 155 x 130mm.
- Weight: 0,5kg.

# Front panel



- [1] LED indicator of active section
- [2] GAIN - controls the amount of distortion saturation
- [3] LEVEL - volume level adjustment of each section
- [4] CHARACTER - controls the tone of the sound - from warm and smooth to bright and cutting
- [5] PRESENCE - high frequency boost switch
- [6] MIX - selector enabling simultaneous operation of selected sections
- [7] Footswitch for OVERDRIVE section - 1
- [8] Footswitch for DRIVE section - 2
- [9] Footswitch for HIGH GAIN section - 3

# Back panel



## Practical note.

When setting the guitar sound, it is recommended to preset CLEAN BLENDER knob to a minimum level so, that it does not dominate the distorted sound.

If we want to add a clean sound to the distorted, it is recommended to do it at the very end, when we have already set our distortion sound.

The clean signal using CLEAN BLENDER should be added in a balanced way. Otherwise, it will be difficult to keep balanced color and dynamic of the sound if the clean signal dominates the overall volume level.

- [1] - Power supply socket. You can use the power supply in the voltage range from 9V/DC to 12V/DC. The effect has auto-detection of power supply polarity. This means that you can use a power supply with any polarity: positive or negative. Maximum current consumption 80mA
- [2] - OUTPUT signal socket
- [3] - Socket for connecting an external controller - activates section 1 and 2
- [4] - Socket for connecting an external controller - activates section 3 and BYPASS mode
- [5] - INPUT signal socket
- [6] - CLEAN BLENDER a potentiometer that allows adding a clean signal to a distorted guitar sound.
- [7] - HI-CUT switch limiting the bandwidth of the added sound by CLEAN BLENDER regulator. So we can according to our own add the word CLEAN to its full extent or in its discretion limited by the HI-CUT filter.

## Tone control



Multidrive is equipped with very intuitive tone control set by the CHARACTER potentiometer. It allows control very selectively a change in sound by using one knob only. It gives wide choice of sounds color, from a mild dark, through out the light middle, up to slightly contoured modern sound. Thanks to this quickly set of the desired sound can be adjusted. Additionally a PRESENCE switch is available that emphasizes the sound's high range.

## BLEND

The BLEND option allows mixing distorted with a clean guitar sound. It gives additional opportunities to create the desired guitar sound. By mixing both distorted and clean signals by CLEAN BLENDER control, very good sounds dynamic can be achieve.

The mix of the guitar sound can be done in two different ways:

- by adding the sound of a clean guitar without tone correction
- by adding a pure guitar sound with a limited high frequency range.

The HI-CUT switch located above CLEAN BLENDER potentiometer is used for this purpose.

The cutting off the high band is to emphasize the PUNCH effect when striking the string and to soften the penetrating of the clean sound in the high frequency range if this is undesirable.

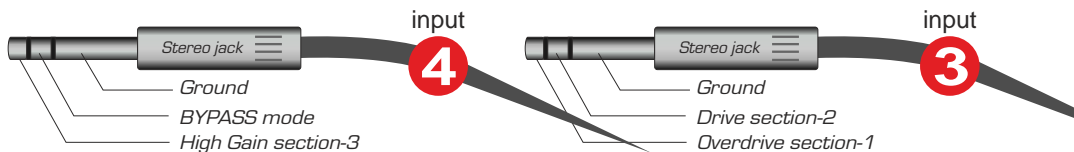
It is recommended to set the CLEAN BLENDER to minimum at the beginning and add it in a balanced way at the very end of the setting, once we have set the right distortion sound.

## Ext. controller connecting

MultiDrive has the ability to connect an external controller with which switching between three effect sections is controlled. Switching is performed using short-circuit pulses. A momentary short circuit of the control signals to ground performs the switching function. This means that any controller that has the "momentary switch" option can be used.

Two TRS jack-stereo connectors should be used to connect the controller.

Description of effect control sockets.



## Section control options

The effect sections can be controlled in two ways. Each of the three sections can be selected using footswitches or an external controller.

If we want to turn off the effect, press the active section switch again.

The effect then goes into "Thru Bypass" mode.

It means that the signal passes through the effect passively, without any electronics involvement .

## Mixing sections

MultiDrive also has the option to mix all three effect sections in any configuration. One , two or three sections can be used simultaneously. It gives great flexibility to create very unique, personal guitar sound. By mixing all sections , we can profile our sound very precisely. A micro MIX switch is used to activate chosen effect sections. If we want to use particular sections, they should be turned on by moving the appropriate switch tabs up. If for example, two sections are chosen, they can be activated with any footswitch that belongs to one of the chosen sections.

### Example of setting a sound using three sections at the same time

Section-1 OVEDRIVE gives the main attack with a slight contour sound

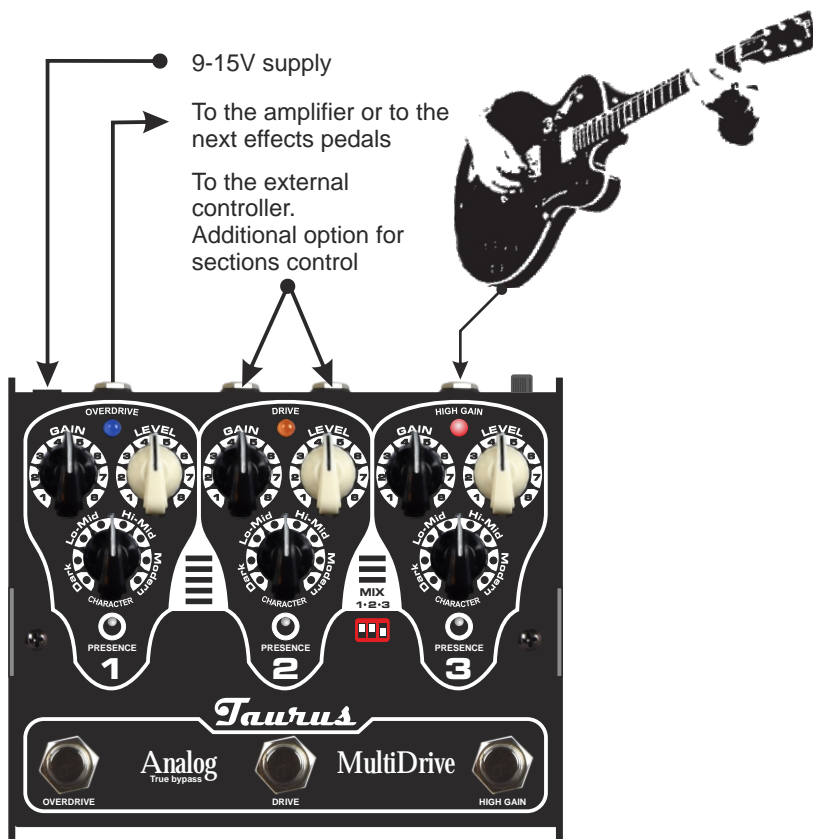
Section-2 DRIVE gives the thickness of sound in the mid-range frequency range

Section-3 HIGH GAIN complements the sound with deep saturation, giving a predatory like quality to the final guitar sound.



Three sections activated by micro switches

# Connection configuration



RoHS