

THE STORY

Celebrating the 50th Anniversary of the renowned DOD Electronics, founded in 1974 in Salt Lake City, Utah, USA by entrepreneurs John Johnson and "Mr. DOD" himself, David O. DiFrancesco, we are excited and proud to commemorate this historic anniversary with a limited edition 250 Overdrive/Preamp! Honoring the original "gray 250" design and sound, which was a huge influence in the early days of the guitar effects revolution, the 250-50th provides additional exciting new functionality, delivering the most expressive and versatile model in the long and venerable series of 250 OD variants. Hand-built in the USA with through-hole components, DOD proudly reclaims its old moniker "America's Pedal" for this commemorative model!

In the latter half of its history, the DOD brand has had its challenges, commencing in the late 1990's as key DOD engineers such as Jason Lamb, myself, and others left the company which then shelved the DOD brand in order to focus on DigiTech and its other brands. Fast-forward to more than a decade later, in the early 20-teens, Tom Cram convinced company executives to give the DOD brand another shot and resurrected many of the old designs in the retro chassis style of the 70's and early 80's. However, the company became increasingly focused on other core business efforts, so new DOD product development waned in the years following. Finally, in 2018, the Salt Lake City R&D office was shuttered permanently, and all remaining engineers were sent packing. Fortunately, in 2022, the company was persuaded to sell the DOD and DigiTech brands to South Korea based Cor-Tek who proceeded to re-hire a core group of long-time DOD/DigiTech key engineers. Like a phoenix rising from the ashes, we once again opened a vibrant (and cage-free) R&D center in Salt Lake City! With "the band" back together, we are excited to honor the historic legacy of the DOD brand, signaling a new day and a bright future!

Roger Johnsen
VP of Engineering
22 Oct 2024



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FEATURES

The 250th features the same Gain and Level controls with the original 250's potentiometer values and tapers providing the familiar control knob feel and range that users have come to expect. Additionally, this limited-edition overdrive includes a 3-position toggle switch that not only delivers the traditional stock "SILICON" mode faithfully replicating the original sound, but also includes two additional modes for unexpected versatility! The "Ge/ASYM" mode provides an entirely different asymmetrical even-harmonic distortion characteristic by employing a vintage Germanium diode. The third toggle selection is a "LIFT" mode which eliminates diode clipping entirely from the signal path, providing the ability to have a clean boost, or even a "dirty" boost as you clip the vintage LM741 op-amp at higher gain settings.

This limited-edition model has a striking new industrial design with its metal flake gray finish and bright yellow silkscreen hearkening back to the vintage gray and yellow color scheme of the original, yet providing an updated look and feel that is right at home within the current DOD pedal lineup. As an added touch and attention to aesthetic detail, the wavelength of the neon yellow-green status LED was carefully selected to complement the silkscreen color. Adorned with a beautiful etched aluminum commemorative 50th Anniversary badge, this pedal is not only destined to become an instant classic and collector's item in the historic DOD lineup, but will assume its rightful place in the entire pedal universe!

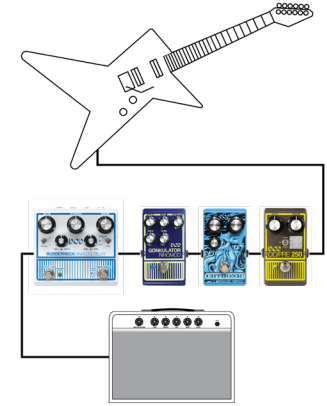
- Limited Edition! 1974 units
- Hand-built in the USA!
- 3 distinct distortion modes
- Through-hole components
- True hard-wire bypass
- +18V tolerant
- Socketed vintage LM741 op-amp
- Commemorative pedal topper
- Commemorative guitar picks
- Commemorative stickers
- Serial-numbered
- Certificate of Authenticity
- Instant collector's item!



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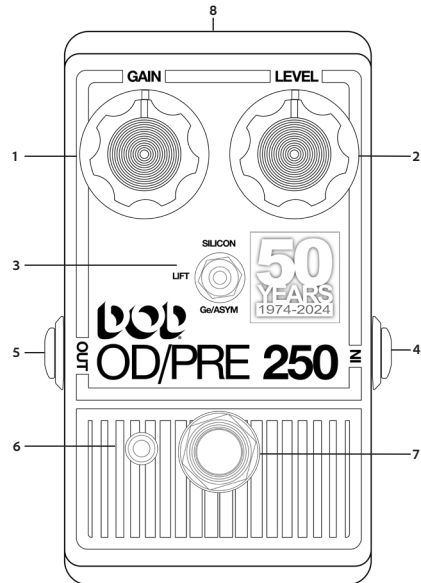
PLACEMENT OF THE 250

Most guitarists/bassists will favor placing the 250 at the beginning of their chain of effects pedals, so start with that placement. A typical effects signal chain will consist of overdrive/distortion ("dirt") effects first, followed by modulation effects (chorus, flanger, phaser), and finally longer-time-based effects (delay, reverb, etc.). Placing the 250 toward the front of your signal chain will "preserve the vibe" no matter the subsequent pedal combination, but don't be afraid to experiment with effect placement. Also, don't be afraid to experiment with "stacking" more than one "dirt" pedal – that means connecting the output of one overdrive/distortion pedal into another.



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CONTROLS & FUNCTIONS



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CONTROL DESCRIPTIONS

- Gain Control:** Controls the amount overdrive/distortion from a mild overdrive when turned to the left to full-on distortion when turned to the right.
- Level Control:** Controls the output level of the pedal from full off when turned to the left to full signal when turned to the right.
- Mode Toggle Switch:** Selects any one of three overdrive/distortion modes: 1) Up position is SILICON mode which enables the classic 250 odd-harmonic-dominant sound of symmetrical anti-parallel silicon clipping diodes; 2) Mid position is LIFT mode which eliminates all diode clipping, essentially turning the 250 into a simple boost pedal which can provide clean boost at low gains and dirty boost at higher gains; 3) Down position is Ge/ASYM mode which enables the unique Germanium diode-based even-harmonic-rich sound of this asymmetrical clipping circuit topology.
- Input Connector:** Connect your instrument or the output of another pedal into this 1/4" phone jack.
- Output Connector:** Connect from this 1/4" phone jack to the input of your amplifier or to the input of another pedal.
- LED Power Indicator:** This LED lights up when the effect is on.
- Footswitch:** This True Bypass footswitch turns the effect on or off. True Bypass means the switch enables a direct hard-wire connection between input and output jacks, removing all pedal circuitry from the signal path.
- Power Supply Connector:** Connect a power supply (optional) to this 2.1mm center (tip) negative DC barrel jack. Alternatively, install a 9V battery inside by removing the 4 bottom plate screws. Note that plugging a power supply into this connector disconnects and overrides the 9V battery.

Note: The 250-50th is tolerant of power supply voltages as high as +18V.

Note: When using a battery, remember to unplug the input cable when not in use! The input cable essentially acts as the battery power switch and powers the pedal only when the input cable is plugged in.



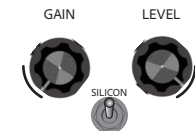
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CONTROL SETTINGS

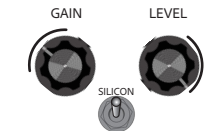
Start with both controls at the 12:00 position – their midpoint. Then adjust to taste. If the result is too extreme, turn the Gain control to a lower setting. Adjust the Level control according to how "hot" of a signal you want to feed to the downstream pedal or amplifier. Note that you will experience different apparent volume levels between the three toggle switch Mode settings. This is normal as the clipping mechanisms between these three modes inherently result in different signal amplitudes within the pedal. All settings will be heavily dependent on the output level of your instrument, the input sensitivity and gain setting of your amplifier, and/or your playing style and preferred level of overdrive/distortion.

EXAMPLE SETTINGS

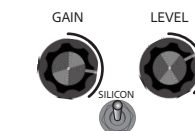
CLASSIC 250 DIRTY BOOST



CLASSIC 250 MILD OVERDRIVE



CLASSIC 250 HEAVY OVERDRIVE

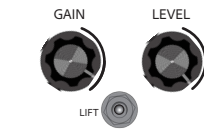


CLEAN BOOST

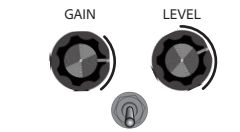


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HIGH-RAIL DIRTY BOOST



HEAVY ASYMMETRICAL OVERDRIVE



SPECIFICATIONS

Dimensions:	4.68" x 2.63" x 2.25" (L x W x H) (Jack W = 2.92")
Weight:	0.60 lbs.
Input:	1/4" Instrument Phone Jack
Input Impedance:	>300kΩ typical
Output:	1/4" Instrument Phone Jack
Output Impedance:	9.1kΩ – 27.5kΩ (based on Level control position)
Gain:	+9.5 dB to +46.7 dB
Power Input:	2.1mm DC Barrel Jack, center (tip) negative
Chassis:	Aluminum
Power Supply:	9V Alkaline Battery
	PS0913DC Power Supply
	Other well-regulated 9V center (tip) negative supply
	+18V tolerant
Consumption:	7 mA typical
Warranty:	1 year

PRODUCT INFORMATION

SKU:	DOD250-50TH
SKU UPC:	8 10147 52007 7
SKU Dimensions:	6.94" x 3.38" x 2.88" (L x W x H)
SKU Weight:	0.87 lbs.
Designed In:	Salt Lake City, UT, USA
Fully Assembled In:	Utah, USA



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* DECLARATION OF CONFORMITY *

This declaration has been issued under the sole responsibility of the manufacturer. The object of the declaration is in conformity with the relevant Union harmonization legislation. For convenience, additional non-EU declarations are included within this Declaration of Conformity.

Manufacturer: DigiTech
Address: 6132 S 380 W
 Murray, UT 84107
 USA

DigiTech Headquarters
 59 Hwagok-ro 61gil, Gangseo-gu
 Seoul 07590
 Republic of Korea

Declares that this product

Product SKU Number: DOD250-50TH
Product Name: DOD 250 Overdrive/Preamp 50th Anniversary Edition
Product Options: All (requires an approved DigiTech Class II power adapter or equivalent that conforms to the requirements herein)

conforms to the following standards, specifications, and initiatives:

Safety: IEC 62368-1, 2nd & 3rd Editions
 DOD S9-1995 JL FBC

EMC: BS / EN 55032:2015+A11:2020
 BS / EN 55035:2017+A11:2020
 BS / EN IEC 61000-3-2:2019
 BS / EN 61000-3-3:2013+A1:2019
 EN 61000-4-2:2009
 EN 61000-4-3:2006+A1:2008+A2:2010
 EN 61000-4-4:2012
 EN 61000-4-5:2014
 EN 61000-4-6:2014
 EN 61000-4-11:2004
 BS / EN IEC 63000:2018
 R&D: DOD 2023-CFEI



Supplementary information:

The product herewith complies with the requirements of the:

- Low Voltage Directive 2014/35/EU
- EMC Directive 2014/30/EU
- UK Statutory Instruments requirements, 2016 No. 1091, Electromagnetic Compatibility Regulations 2016
- RoHS Directive (EU) 2015/863, amending Annex II to Directive 2011/65/EU
- WEEE Directive 2012/19/EU
- ErP Directive 2009/125/EC, amended by energy efficiency Directive 2012/27/EU, and ecodesign Regulation (EU) 2019/1782

Roger T. Johnson

VP of Engineering
 October 31, 2024

DigiTech
 6132 S 380 W
 Murray, UT 84107
 USA

Contact: Your local DigiTech sales office, or visit the DigiTech website at www.digitech.com, or contact:

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 59 Hwagok-ro 61gil, Gangseo-gu
 Seoul 07590
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 support@digitech.com

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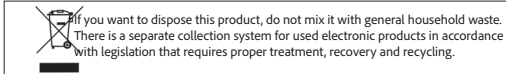
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These symbols are internationally accepted symbols that warn of potential hazards with electrical products. The lightning flash means that there are dangerous voltages present within the unit. The exclamation point indicates that it is necessary for the user to refer to the owner's manual.

These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service.

Disconnect the unit during storms to prevent damage.



Private household in the 25 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For Countries not mentioned above, please contact your local authorities for a correct method of disposal.

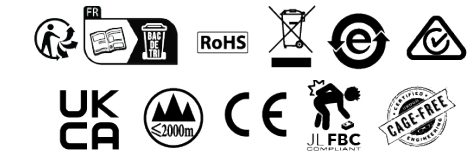
By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery, and recycling and thus prevent potential negative effects on the environment and human health.

Warning

For your protection, please read the following:

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Do not use this apparatus near water.
5. Clean only with dry cloth.
6. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
8. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
9. Unplug this apparatus during lightning storms or when unused for long periods of time.
10. 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.
11. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
12. Refer to labels on the unit, including bottom cover, or other markings and pertinent information.



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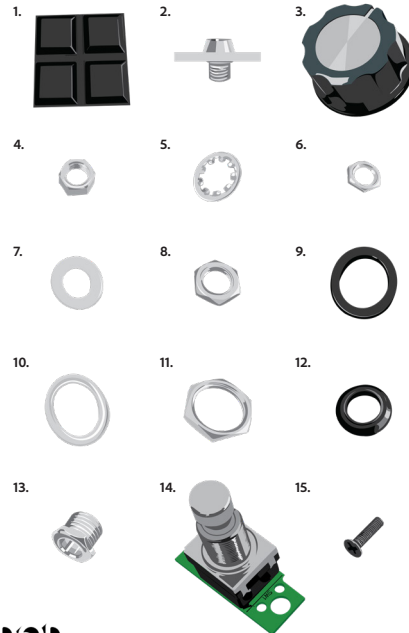
WARRANTY & REGISTRATION

We at DigiTech® are very proud of our products and back up each one we sell with the following warranty:

1. Please register online at www.digitech.com within ten days of purchase to validate this warranty. This warranty is valid only in the United States.
2. DigiTech warrants this product, when purchased new from an authorized U.S. DigiTech/DOD dealer and used solely within the U.S., to be free from defects in materials and workmanship under normal use and service. This warranty is valid to the original purchaser only and is non-transferable.
3. DigiTech liability under this warranty is limited to repairing or replacing defective materials that show evidence of defect, provided the product is returned to an authorized DigiTech/DOD location, where all parts and labor will be covered up to a period of one year from date of purchase. The company shall not be liable for any consequential damage as a result of the product's use in any circuit or assembly.
4. Proof-of-purchase is considered to be the responsibility of the consumer. A copy of the original purchase receipt must be provided for any warranty service.
5. DigiTech reserves the right to make changes in design, or make additions to, or improvements upon this product without incurring any obligation to install the same on products previously manufactured.
6. The consumer forfeits the benefits of this warranty if the product's main assembly has been tampered with by anyone other than a certified DigiTech technician (not including user replacement of the battery) or, if the product is used with voltages outside the range specified by DigiTech.
7. The foregoing is in lieu of all other warranties, expressed or implied, and DigiTech neither assumes nor authorizes any person to assume any obligation or liability in connection with the sale of this product. In no event shall DigiTech or its dealers be liable for special or consequential damages or from any delay in the performance of this warranty due to causes beyond their control.

NOTE: The information contained in this manual is subject to change at any time without notification. Some information contained in this manual may also be inaccurate due to undocumented changes in the product since this version of the manual was completed. The information contained in this version of the owner's manual supersedes all previous versions.

ACCESSORIES & REPLACEMENT PARTS



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ACCESSORIES & REPLACEMENT PARTS

- 1. FOOT-0000 Rubber Stick-On Foot
 - 2. HDWR-0001 Chrome LED Bezel w/ Hex Nut
 - 3. KNOB-0000 Large Shiny-Spiral Knob
- TOGGLE SWITCH HARDWARE**
- 4. NUTT-0002 5/16" Hex 1/4"-40 Tall Spacer Nut (inside chassis)
 - 5. WSHR-0008 1/4" Metal Internal Tooth Lockwasher (outside chassis)
 - 6. NUTT-0005 5/16" Hex 1/4"-40 Nut (outside chassis)

POTENTIOMETER HARDWARE

- 7. WSHR-0004 M7 Metal Flat Washer for Potentiometers
- 8. NUTT-0003 10mm Hex M7x0.75 Nut for Potentiometers

FOOTSWITCH HARDWARE

- 9. WSHR-0000 12mm Black Plastic Flat Washer for Footswitch
- 10. WSHR-0005 M12 Metal Flat Washer for Footswitch
- 11. NUTT-0004 14mm Hex M12x0.75 Nut for Footswitch

AUDIO JACK HARDWARE

- 12. WSHR-0009 Black Plastic Decorative Beveled Washer for 1/4" Jacks
- 13. NUTT-0006 11mm Hex Chrome Threaded Ferrule for 1/4" Jacks

- 14. PCBA-1004-01 Replaceable Footswitch Circuit Board Assembly

- 15. SCRW-0000 M3x0.5 x 12mm Length Screw for Bottom Plate

- LITP-0003 Owner's Manual (this document) hard copy

Visit www.digitech.com to purchase any of the above replacement parts.

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ROLL THE CREDITS

CONCEPT	Tom
DEFINITION	Tom, Parker, Roger, Jim
LOOK & FEEL	Tom, Roger
DESIGN	Roger, Parker, John, Trudy
DRAFTING	Gabe, Brittany, John, Trudy
PACKAGING	Gabe
ARTWORK	Brittany, John
MANUAL	Roger, Brittany
STICKERS & PICKS	Roger, Brittany, Ryan
TEST	Isaac, Roger
MANUFACTURING	Dale & Team
DEMOS	Jonni
GUITAR DESIGN	Roger
PROMOTION	Jerry Aldini
JUST BECAUSE	Fenway Spuz

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