



# DT50 Guitar Amplifier

## **Pilot's Guide**

**Manuel de pilotage**

**Pilotenhandbuch**

**Pilotenhandboek**

**Manual del Piloto**

**取扱説明書**

## Important Safety Instructions



**CAUTION**  
**RISK OF ELECTRIC**  
**SHOCK DO NOT OPEN**



**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE APPLIANCE TO RAIN OR MOISTURE.

**CAUTION:** This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



The lightning symbol within a triangle means “electrical caution!” It indicates the presence of information about operating voltage and potential risks of electrical shock.



The exclamation point within a triangle means “caution!” Please read the information next to all caution signs.

### Please Note:

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SERIAL NO: \_\_\_\_\_

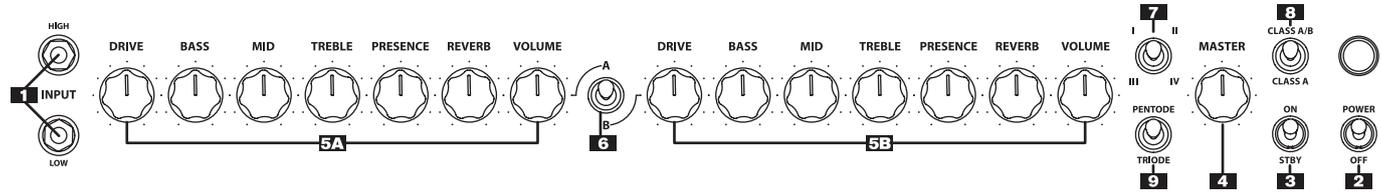


## You should read these Important Safety Instructions. Keep these instructions in a safe place



- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- This apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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.
- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- **WARNING:** To reduce the risk of fire or electric shock do not expose this apparatus to rain or moisture.
- The appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- Connect only to AC power outlets rated: 100/120V 220/240V 50/60Hz (depending on the voltage range of the included power supply).
- Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening."
- Service 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 unit has been exposed to rain or moisture.
  - the unit is dropped or the enclosure is damaged.
  - the unit does not operate normally or changes in performance in a significant way.





## FRONT PANEL CONTROLS & CONNECTIONS

1. **Guitar In** – Plug your guitar in here. It’s not uncommon to use **HIGH** input for guitars equipped with standard pickups and **LOW** when using guitars equipped with active electronics. Some like to use **HIGH** input for guitars equipped with single coil pickups and **LOW** when using guitars equipped with humbuckers. There’s no hard and fast rule – just plug in to the input that sounds best to you.
2. **Power Switch** – Connect the included power cable to your rear panel. For optimum tube life always power your amp on with your amp set to **STBY**.
3. **Standby Switch** – Allow the amp to warm up for one minute before setting **STBY** to **ON**. This extends the life and performance of your vacuum tubes. It is not necessary to set the amp to **STBY** before setting the Power Switch to its **OFF** position, but it can be a good habit, if only to ensure you’ve got it set properly next time you power up the amp.
4. **Master Volume** – Sets the overall volume of the amplifier without having to change your individual channel settings.
5. **Channel A & B Controls** – **DRIVE** controls how much “dirt” or “distortion” you get in your sound. **BASS, MID, TREBLE** and **PRESENCE** controls will interact differently depending on which **VOICING** you have selected.  
**REVERB** adjusts the channel’s reverb level, allowing you to switch between channels with different amounts of reverb. If you don’t want any reverb, simply turn this knob fully counter-clockwise.  
**VOLUME** sets the output level for its channel only.

6. **Channel Select Switch** – DT50 features two independent channels, **A & B**. When set to **A**, use the (5A) controls. For **B** use the (5B) controls. You can assign unique combinations of **Voicing/Feedback Topology, Amplifier Operating Class** and **Pentode/Triode** settings for each channel. This provides much more than the traditional clean/dirty channel configuration. Either channel can be set up any way you like...even identically, if that’s what you’re looking for. Customization of each channel is not limited to simply changing some components of the preamp or tone stack - the entire power section can be reconfigured and switched instantly too. It’s like having two extremely versatile tube amps in one box!
7. **Voicing Switch** – This switch determines the flavor of the currently selected channel’s preamp and tone stack, as well as the Negative Feedback Loop topology (NFL). NFL has a big impact on tonal characteristics and the overall “feel” of the amp. Flip the switch up or down to toggle through settings I through IV. With a single switch your tone can go from clean to mean. Each voicing is distinct:
  - I – Puts the NFL in its tightest setting while configuring the Channel Control’s behavior reminiscent of the great American “Blackface” amps of the 60’s. **Recommended settings: Class AB, Pentode**
  - II – Sets the NFL topology to be a little looser than I while the Channel Control settings are capable of dialing in echoes of classic British amps. **Recommended settings: Class AB, Pentode**
  - III – This is the Zero Negative Feedback Loop setting which produces a very “open” or “dynamic” feeling amp. In this setting, the Channel



- No additional cables are required to connect a POD HD (300/400/500) to a DT50 series guitar amplifier.
- Changing Tone settings (for example) on either the POD HD or DT50 immediately updates the other, with the result that both units stay perfectly in sync.
- “Edit” a preset on a POD HD by simply turning knobs on the DT50 as one would any other guitar amp, then save it on the POD HD to perfectly recall every time the preset is selected.
- This one is crazy cool! Calling up a particular amp model or preset on the POD HD enables the DT50 to dynamically reconfigure itself in the analog realm to optimize its components to match the source amplifier. Change your preset on a POD HD, and the DT50 will immediately align itself in the analog realm to such things as the appropriate Class A or AB operation, Biasing method, Feedback topology, Triode/Pentode power tube configuration and more!
- Automatic sensing allows amps that are daisy-chained via L6 LINK to operate in a variety of ways, depending on which POD HD is connected. At a minimum, all POD HD multi-effects support stereo operation with linked DT50s, and POD HD500 supports up to four uniquely linked amps with configurations like “wet/dry mode” easily available.

### **More online at [www.line6.com/manuals](http://www.line6.com/manuals)**

While you're online be sure to register your amp or simply fill out and mail us your included registration card. Registering gets you all set up for warranty service should you have an issue with your amp, and also qualifies you for contests, special offers and more.

## MIDI IMPLEMENTATION

<b>ContinousController (MIDI CC #)</b>	<b>Value</b>	<b>Function</b>
19	0-63 = Channel A, 64-127 = Channel B	Channel A/B Toggle
77	0 =Voicing I, 1 =Voicing II, 2 =Voicing III, 3 =Voicing IV	Channel A Voicing (I, II, III, IV)
73	0-63 = Class A, 64-127 = Class AB	Channel A Operation Class Configuration (Class A / Class AB)
75	0-63 = Triode, 64-127 = Pentode	Channel A Power Tube Configuration (Pentode/Triode)
36	0-63 = Reverb Off, 64-127 = Reverb On	Channel A Reverb On/Off
114	0 =Voicing I, 1 =Voicing II, 2 =Voicing III, 3 =Voicing IV	Channel B Voicing (I, II, III, IV)
115	0-63 = Class A, 64-127 = Class AB	Channel B Operation Class Configuration (Class A / Class AB)
116	0-63 = Triode, 64-127 = Pentode	Channel B Power Tube Configuration (Pentode/Triode)
105	0-63 = Reverb Off, 64-127 = Reverb On	Channel B Reverb On/Off

