



RANGER



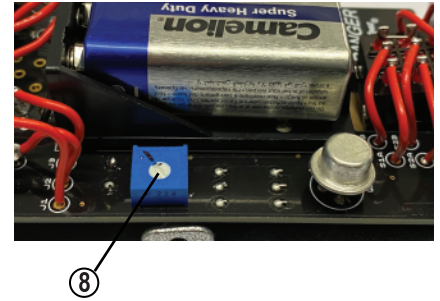
Owner's Manual

The Dallas Rangemaster was a germanium transistor-powered guitar effect made in the mid-1960s which was relied upon heavily by Brian May, Tony Iommi, Rory Gallagher, and many others to achieve their signature sounds. It was marketed as a "Treble Booster," when it actually boosted the midrange and treble frequencies, at the same time imparting an incredible harmonic-laden distortion while also driving the tube amplifier to distort more. If you can find one now, they go for north of \$4000 but don't despair, Fulltone has brought it back to life with 5 extra frequency ranges, true-bypass, in a super compact enclosure. In addition, I devised a way to allow the circuit to remain "PNP" (positive ground) while letting you to power it with a standard "NPN" (negative ground) power adapter or pedalboard power supply.

This Ranger contains a New Old Stock Military Germanium transistor that was culled from my personal stash and tested for noise, leakage, and tonal qualities by me. All Fulltone Rangers are 100% Hand-Built in California.

Enjoy it forever!

Michael Fuller/President



Specifications:

Input Impedance: using 440Hz, varies 30K-200k depending on Range Mode selected

Output Impedance: 5K with volume pot at 50%

Power Consumption: 5mA

Dimension: 4.78" L x 2.9" W x 2.4" H

ON/OFF FOOTSWITCH (see #1 on above diagrams) The Ranger uses the Fulltone 3PDT footswitch wired for True-Bypass.

ROTARY MODE SWITCH (#2) This giant knob switches between various Frequency modes that the Ranger offers by switching various capacitors to create a Hi-Pass Filter, which allows all signal above a chosen frequency to pass through. There are 6 switchable capacitors in the Ranger.

FULL: Full range, all frequencies including the Bass pass through. Since all signal passes the Transistor distorts easily.

LO-MIDS: all signal except for Bass pass through.

MIDS: all signal except for Low Mids and Bass pass through.

RM-1: "Rangemaster 1" is the same as the early version Rangemaster, only Upper-Mids, Treble, and Upper-Treble pass through.

RM-2: "Rangemaster 2" is the same as later Rangemasters, only Treble and Upper-Treble pass through.

HIGHEST: only Upper-Treble passes through.

AMP JEWEL: (#3) When this is lit, your pedal is ON.


LEVEL KNOB: This mini-knob (#4) sets the volume when the pedal is ON.

INPUT JACK: (#5) Connect a (shielded with 1/4" mono plugs) cable coming from your guitar, bass, or other instrument into this jack. Always use good quality shielded cables for audio signals, speaker cables are *un-shielded* and should not ever be used to connect your instrument. **Tip:** This pedal has a low input impedance therefore should always be placed BEFORE any buffered pedals, loops, or tuners.

OUTPUT JACK: (#7) Connect a cable (shielded with 1/4" mono plugs) going to your amplifier or other pedals in your chain.

INTERNAL BIAS TRIMMER: This trimmer (#8) sets the bias of the Transistor, generally allowing it to bias at a range between 3.5 volts and 6 volts when powering with 9 volts. **Tip:** There is no "wrong setting" here! **Turning the trimmer clock-wise lowers the bias voltage**, making the sound a little quieter and the attack softer.

Turning the trimmer counter-clockwise increases the bias voltage, making the pedal louder and the attack firmer/quicker.

POWER: (#6) You may power your Ranger with the supplied 9 volt battery or with any high-quality regulated power supply that's 9 to 18VDC, and offers at least 50mA of current. The connector must be a standard 2.1mm x 5.5mm barrel plug "Negative to Center Pin," as shown on the following diagram:  We recommend buying the Fulltone IPS-9 if you don't plan to power it with a battery. Avoid using non-Fulltone wall-wart power adapters as they can introduce hiss, hum, and strange synth-like noises. The Fulltone IPS-9 & IPS-18 adapters (for use anywhere in the world) are dead-quiet, well-regulated power supplies that can be purchased at store.fulltone.com.

WARRANTY: Fulltone products carry a Limited 5 year Warranty to the original owner with proof of purchase that the product was bought direct or from an Authorized Fulltone Dealer. Please register your product at <https://www.fulltone.com/contact/product-registration>. The Warranty covers failure due to manufacturing errors only and is void if any mod or repair is performed by anyone other than Fulltone AND/OR if we deem that any operator-caused abuse or damage has occurred, for example; the use of an incorrect power supply, a dropped pedal, water damage, etc. Customer is always responsible for all shipping costs both to and from Fulltone. Do not call, instead all repair issues are handled via email to troubleshoot the possible problem and (after troubleshooting) for the scheduling of Warranty Repair. After we have deemed that a repair is necessary, we will email you an Acrobat PDF copy of our Return Authorization Form (RA Form) and print it out, fill out all information, and include it with the device you are sending. Fulltone Musical Products Inc. is not responsible for and injuries and/or damages related to the use of our products.

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