

***FISHMAN***<sup>®</sup>

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**USER GUIDE  
GREG KOCH GRISTLE-TONE  
PICKUP SET FOR TELECASTER<sup>®</sup>**

Telecaster<sup>®</sup> is a registered trademark of Fender Musical Instruments Corporation (FMIC)

[fishman.com](http://fishman.com)

# Welcome

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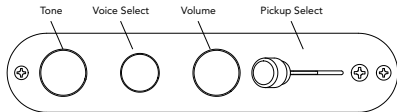
Thank you for making Fishman products a part of your musical experience. We are proud to offer you the finest products available: high-quality professional grade tools which empower you to sound your very best.

## Installation Warning

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Self-installation and/or misuse of this product, involves serious risks including injury, disability and death. Purchasers, users and participants assume all risk of injury. Fishman cannot and will not be responsible for the misuse or unauthorized and improper use of Fishman products. Product descriptions, typographic, pricing and photographic errors are unintentional and subject to correction. We regret, but are not liable for such errors.

**Please note: knobs and top-hat switch cap not included.**



# Troubleshooting

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If you notice unexpected changes in volume or tone, recharge your battery pack by connecting the USB cable to a standard 5V USB power adapter.

If you are unfamiliar with these products, please pay close attention to the requirements for installation. Failure to do so can result in permanent damage to the battery pack, Fluence pickups or other electronics powered by the battery pack, or your instrument.

Installation by a qualified professional is strongly recommended.

Should you have any problems, please check with your installer or refer to the online installation guide for this product.

Users should not attempt replacement of the battery themselves. It is possible to send your battery pack back to Fishman in order to have the battery replaced for a small fee. However, if a battery replacement is attempted: **Caution - Replace only with same type of battery, Model PL503450.**

Technical support, troubleshooting tips and installation information can be found at <http://www.fishman.com/support/>

# Operation

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Connect the Fluence equipped guitar to your amplifier with a ¼-inch instrument cable. To conserve battery life, remove the instrument cable from the guitar when the system is not in use.

The pickups are hum-cancelling in all voice settings and pickup selector positions. Fluence pickup voicing affects both pickups and is selected using the push button located in the center of the control plate. Volume and tone controls operate in the traditional manner, however unlike traditional passive pickups where treble response is altered with volume adjustment, Fishman Fluence pickups retain their full factory tone at any volume position.

## **Voice 1 – Vintage “White-Guard” (Voice select “out”)**

Vintage tone and sparkle: voice 1 peak frequency

Rhythm Pickup: 3.2 kHz

Treble Pickup: 3.2 kHz

Middle/Both: 4.5 kHz

## **Voice 2 – Hotter “Black-Guard” (Voice select “in”)**

Fuller tone with increased output: voice 2 peak frequency

Rhythm Pickup: 2.6 kHz

Treble Pickup: 2.6 kHz

Middle/Both: 3.5 kHz

# Charging

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We recommend fully charging the battery pack before using it for the first time. Connect the charge cable to the micro USB jack built into the output jack and plug into a wall socket using a standard 5V USB adapter. The small LED on the output jack will change from red to green when the charge is complete. Allow 3 hours for the battery to be fully charged.

The battery charge LED indicates the following battery conditions:

## Normal operation

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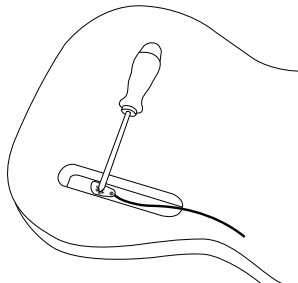
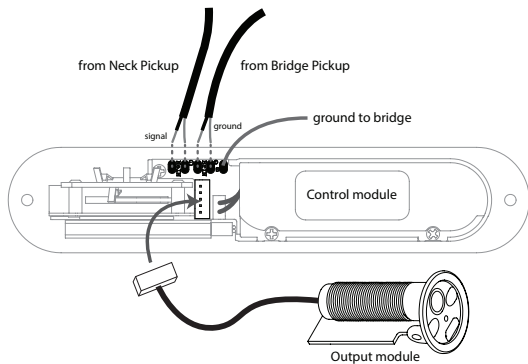
|              |                                                            |
|--------------|------------------------------------------------------------|
| No Light     | Normal. May also indicate a completely discharged battery. |
| Blinking Red | Low battery. Connect your charger.                         |

## USB Charger Connected

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|              |                |
|--------------|----------------|
| Steady Red   | Charging.      |
| Steady Green | Fully charged. |

# Control Module Wiring



**NOTE:** Use a screwdriver to remove ground lug and screw from cavity. Remove lug and solder ground wire to Control Module as shown.

# Specifications

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## Rhythm Pickup

Peak Frequency:

Voice 1: "White-Guard" 3.2 kHz

Voice 2: "Black-Guard" 2.6 kHz

Magnetic Circuit:

Alnico V, Rod Magnets

Gauss Strength:

260 gauss strength at string

Pole Spacing:

50.7mm

## Treble Pickup

Peak Frequency:

Voice 1: "White-Guard" 3.2 kHz

Voice 2: "Black-Guard" 2.6 kHz

Magnetic Circuit:

Alnico IV, Rod magnets

Gauss Strength:

260 gauss strength at string

Pole Spacing:

55.4mm

## Combined Peak Frequency:

Voice 1: "White-Guard" 4.5 kHz

Voice 2: "Black-Guard" 3.5 kHz

Output Impedance:

2k Ohms

Internal Rechargeable Battery Life:

250 hours, typical

**CE** EU Declaration of Conformity CE: Hereby, Fishman declares that Fishman Greg Koch Gristle-Tone Pickup Set for Telecaster is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU, 2014/35/EU. The Declaration of Conformity can be found at [www.fishman.com/support](http://www.fishman.com/support)

**FCC Notice (for U.S. Customers):**            **Model numbers: 494-000-346, 494-000-371, 494-000-315, 494-000-353, 494-000-418**

This device complies with FCC Part 15: Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes and modifications not expressly approved by FISHMAN TRANSDUCERS can void your authority to operate this equipment under Federal Communications Commissions rules.

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