

## V-100 Violin / Viola Pickup

Thank you for your purchase of a FISHMAN product. Please read these instructions carefully. If you have any questions or problems, contact our **PRODUCT INFORMATION LINE** at 978-988-9665 or at [tech@fishman.com](mailto:tech@fishman.com)

The V-100 Violin / Viola Pickup is a bridge-mounted, piezo-ceramic pickup. It senses string vibrations via a single piezo element, fastened to the instrument's wing slot with a patented floating mount. The pickup is terminated with a Switchcraft™ 1/8" jack that mounts to the tailpiece.

The V-100 installs in minutes, with only minor alterations required. Its low mass minimizes any damping or muting that could affect the instrument's acoustic tone. The V-100 provides a natural, acoustic sound for arco or pizz playing styles.

## PARTS LIST

- V-100 Violin / Viola Pickup
- 1/8" to 1/4" Instrument Cable

## CAUTION

As might be expected of a high performance, vibration-sensing transducer, the FISHMAN V-100 should be handled with care, particularly during installation. However, once installed as instructed below, this device is well protected from abuse and should provide years of trouble-free service.

## PRELIMINARY

1. Remove all rosin deposits from the bridge of the instrument.
2. Examine the bridge closely to make sure that the wing slots are free of warps or irregularities and that the slots present flat parallel faces.

The FISHMAN V-100 VIOLIN / VIOLA PICKUP is warranted to function for a period of One (1) Year from the date of purchase. If the unit fails to function properly within the warranty period, free repair and the option of replacement or refund in the event that FISHMAN is unable to make repair are FISHMAN's only obligations. This warranty does not cover any consequential damages or damage to the unit due to misuse, accident, or neglect. FISHMAN retains the right to make such determination on the basis of factory inspection. Products returned to FISHMAN for repair or replacement must be shipped in accordance with the Return Policy, as follows. This warranty remains valid only if repairs are performed by FISHMAN. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

## Return Policy

To return products to FISHMAN TRANSDUCERS, you must follow these steps...

1. Call FISHMAN TRANSDUCERS at 978-988-9199 for a Return Authorization Number ("RAN").
2. Enclose a copy of the original Bill of Sale as evidence of the date of purchase, with the product in its original packaging and a protective carton or mailer.
3. FISHMAN TRANSDUCERS' technicians will determine whether the item is covered by warranty or if it instead has been damaged by improper customer installation or other causes not related to defects in material or workmanship.
4. Warranty repairs or replacements will be sent automatically free of charge.
5. If FISHMAN TRANSDUCERS determines the item is not covered by warranty, we will notify you of the repair or replacement cost and wait for your authorization to proceed.

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*Acoustic Power*



**V-100 Violin / Viola Pickup**

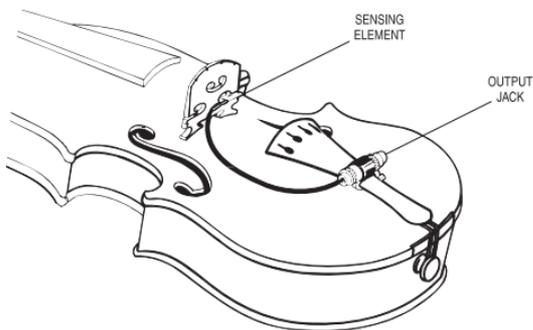
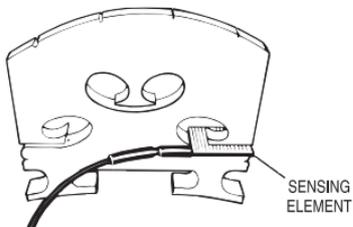
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## INSTALLATION

1. Measure the opening of the wing slot on the bridge with a vernier caliper. The opening should be between .060-.090" (1.5-2.3mm) for proper fit.

If the wing slot measures less than .060" (1.5 mm), employ a qualified repairman to enlarge the wing slot.

If the wing slot measures more than .090 inch (2.3 mm) as is the case in violas, a small wooden shim may be required. If so, use an adhesive to bond the shim to the "leg" face.



2. Slide the V-100 Transducer into the wing slot of the bridge (See Fig.1). Make certain that the sensing element is in contact with the wing face and that the spring is in contact with the corresponding "leg" face of the bridge.

The spring (made of tempered beryllium copper) provides the proper tension for a snug fit in wing slots ranging from .060 inch to .090 inch (1.2 mm to 2.3 mm).

**NOTE:** For best performance, the wing slot opening should be exactly .070" (1.8mm).

3. Once the transducer is properly installed in the bridge, attach the output jack to the tailpiece with the black plastic tie wrap.

## FINE TUNING

Once the V-100 is properly mounted, plug the instrument into an amplifier and play at a low volume. Carefully shift the position of the pickup and listen for the best location.

**NOTE:** If installation is to be permanent, a small drop of adhesive on the side (lower face) of the transducer can be used.

## PLUGGING IN

Due to the nature of passive pickups, the type of cable you use and the input you plug into will affect the quality of your sound.

### Instrument Cable

Cable lengths over 10 feet (before preamp) will cause audible high frequency loss. Use a high quality, low capacitance shielded cable. This will ensure minimal tone coloration and hum. Using fully shielded metal plugs will also help eliminate hum.

### Kinds of Audio Inputs

Because of the lack of standardization for high impedance audio inputs, special attention should be paid to what you are plugging into:

The V-200 Professional will sound best when plugged directly into an input with a 10 M $\Omega$  impedance; the full frequency response of the instrument is reproduced.

The V-200 Professional can also be plugged into inputs as low as 1 M $\Omega$  with adequate results; the bass frequencies will be slightly rolled off.

## Preamps

We strongly recommend using a 10 M $\Omega$ , impedance matching, buffered preamp in conjunction with the pickup.

A matching preamp will:

1. Realize the full frequency response potential of the pickup.
2. Permit long cable runs (after the preamp) without signal deterioration.
3. Allow precise volume and tone shaping with dedicated EQ.
4. Ensure compatibility with virtually any instrument level audio input available.

Fishman Transducers manufactures a complete line of compatible preamps, all with 10 M $\Omega$  inputs:

**POWERJACK** - Miniature Endpin Preamp

**MODEL GII** - Outboard Acoustic Instrument Preamp

**PRO-EQ II** - 4 Band Acoustic Instrument Preamp

**PRO-EQ PLATINUM** - Outboard Acoustic Instrument Preamp / EQ / D.I.

**POCKET BLENDER** - 2 Channel Pickup / Mic Preamp

## Musical Instrument Amplifiers

Most musical instrument amplifiers (at least 1 M $\Omega$  input impedance) will yield useable results. Acoustic instrument amplifiers have a 10 M $\Omega$  Piezo input, ideally matching the pickup.

## Direct Boxes

You can plug the V-200 Professional into an "active" direct box (1 M $\Omega$  to 10 M $\Omega$  input) with very good results. Using a passive direct box will sound weak and thin.

## PA / Recording Consoles

Professional PA and recording consoles have a much lower input impedance than what is acceptable for the V-200 Professional; you will need an impedance matching preamp. Plugging a passive piezo pickup into a mixer without an impedance matching preamp will sound harsh and thin.