

TS[®] Preamp

Owner's Manual

Less is more... The **TS** preamp epitomizes this axiom! Less cosmetic intrusion, more control!

The preamp has a preset EQ designed to create the most natural acoustic guitar tonality available. If you like to use P.A. or acoustic amp EQ controls to "dial in" your own sound, the built-in EQ curve is the perfect starting point.

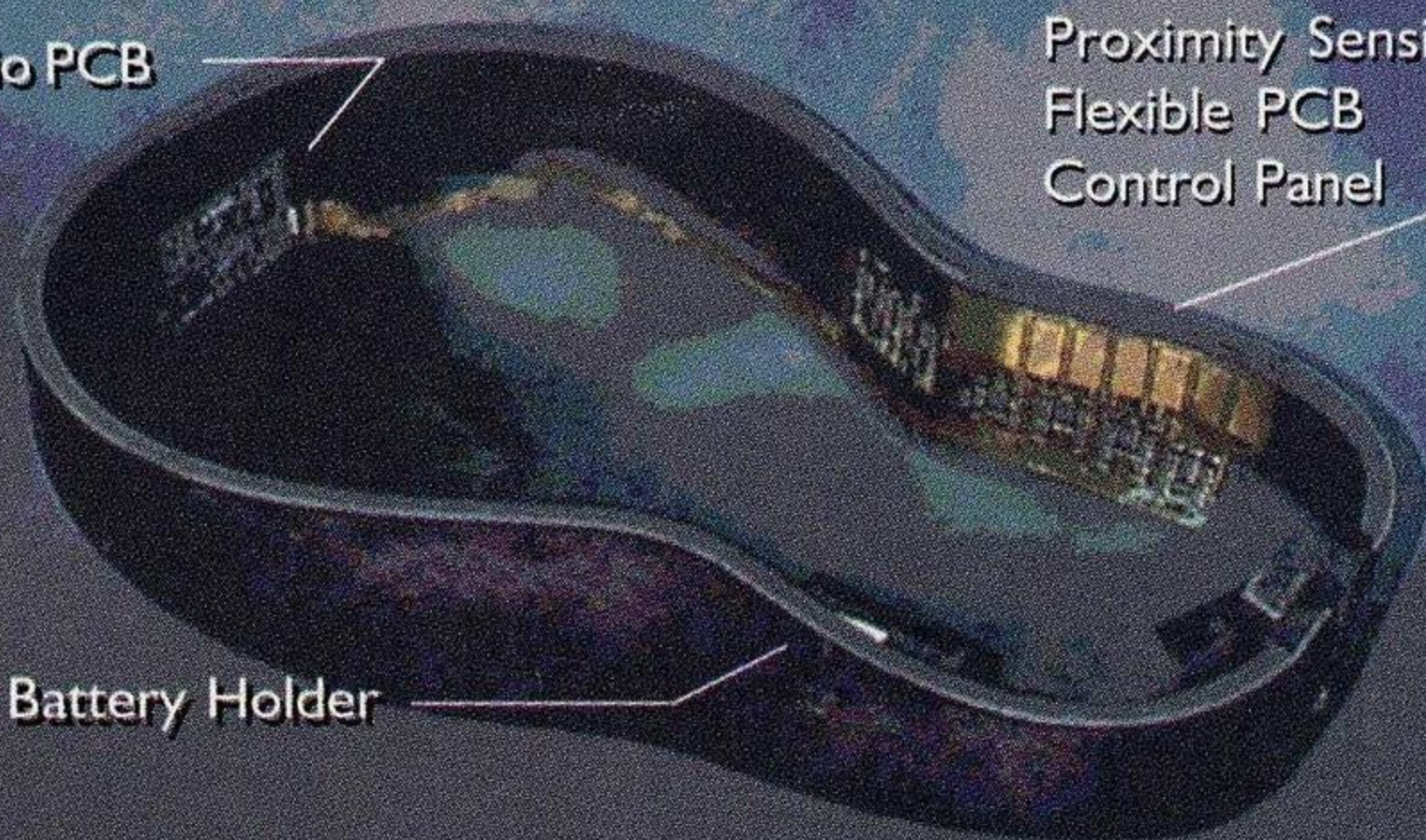
Volume control is as easy as placing your thumb or finger on the subtly marked volume icons on the side of the upper bout. The volume change is immediate, precise, and repeatable! And because there are no mechanical controls, the TS preamp is incredibly reliable!

The Inside Story...

Audio PCB

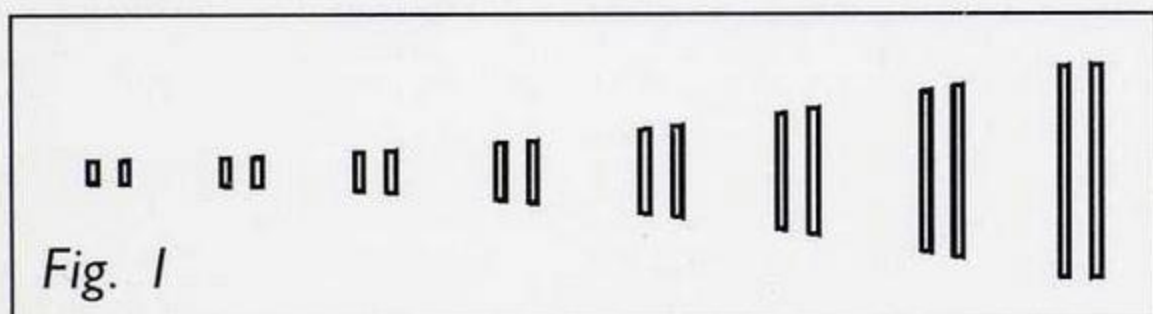
Proximity Sensing
Flexible PCB
Control Panel

Battery Holder



TS® Preamp Description

The TS preamp consists of a proximity sensing control panel mounted within the guitar on the bass side of the upper bout. The sensor locations are subtly marked on



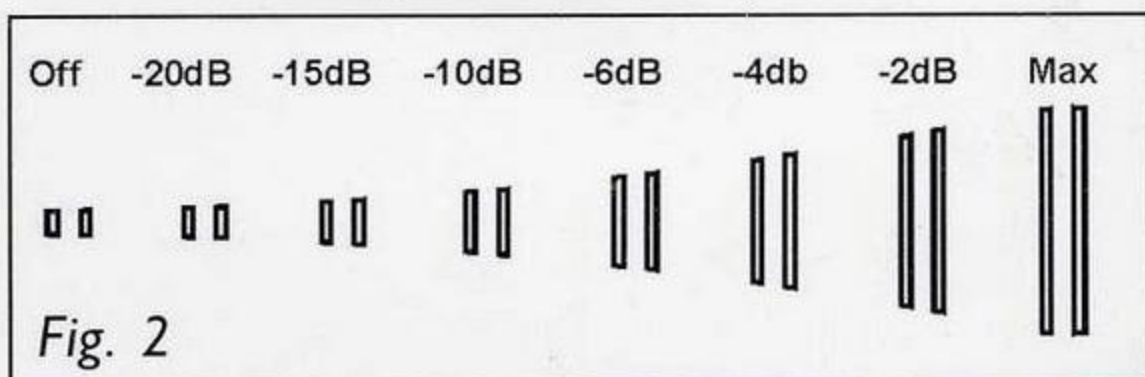
the exterior of the guitar with a series of raised symbols (see fig. 1). As you

look down at the guitar, the size of each marking gets progressively larger from left to right. This corresponds to an increase in volume at each position. If you place your finger on the marking furthest to the left, the preamp level will be at the minimum (off) setting. Likewise, placing your finger or thumb on the icon furthest to the right, the preamp will be at full volume. Of course, touching any of the icons between these extreme settings will result in a corresponding output level.

Using the Preamp

To use the preamp, first, plug one end of a standard 1/4" mono guitar cable into the endpin jack. This will activate the electronics. Plug the other end into your PA or acoustic amp. If you're already plugged in to your amp, turn the volume down before plugging into the guitar. This way, the turn-on transients (unstable voltages that are present in electronic circuits when first powering up) will not be amplified through your amp or speakers. The preamp will default to about 10dB below maximum output. It takes about 3 seconds for the proximity sensors to be-

come active. Place your thumb or finger on the desired level marking and the preamp will re-



spond instantaneously. (Please note that because the response of the preamp is instantaneous, if you change volume while a note is ringing, a slight click may be heard.

This is a result of the quick level change affecting the normal guitar waveform. The level changing is completely noiseless without signal.) Please refer to figure 2 for the attenuation scale.

Changing the Battery

If the output of the preamp starts to distort at high levels, it's time to replace the battery. An Alkaline battery, like the one supplied with your Ovation should last for about 100 hours of use. Since current is drawn from the battery only when the guitar is plugged in, conserve battery life by unplugging you guitar when not in use. To replace the battery (refer to Fig. 3):

1. Loosen the strings until you can put your hand in the sound hole.
2. Turn the external screw at the side of the upper bout of the guitar counterclockwise $\frac{1}{4}$ turn.
3. Slide the cover off of the battery box; insert the new battery (observing the correct polarity) and replace the cover.
4. Locate the rubber mount of the battery case up against the side of the guitar in alignment with the retaining screw. Turn screw $\frac{1}{4}$ turn clockwise to retain battery case.

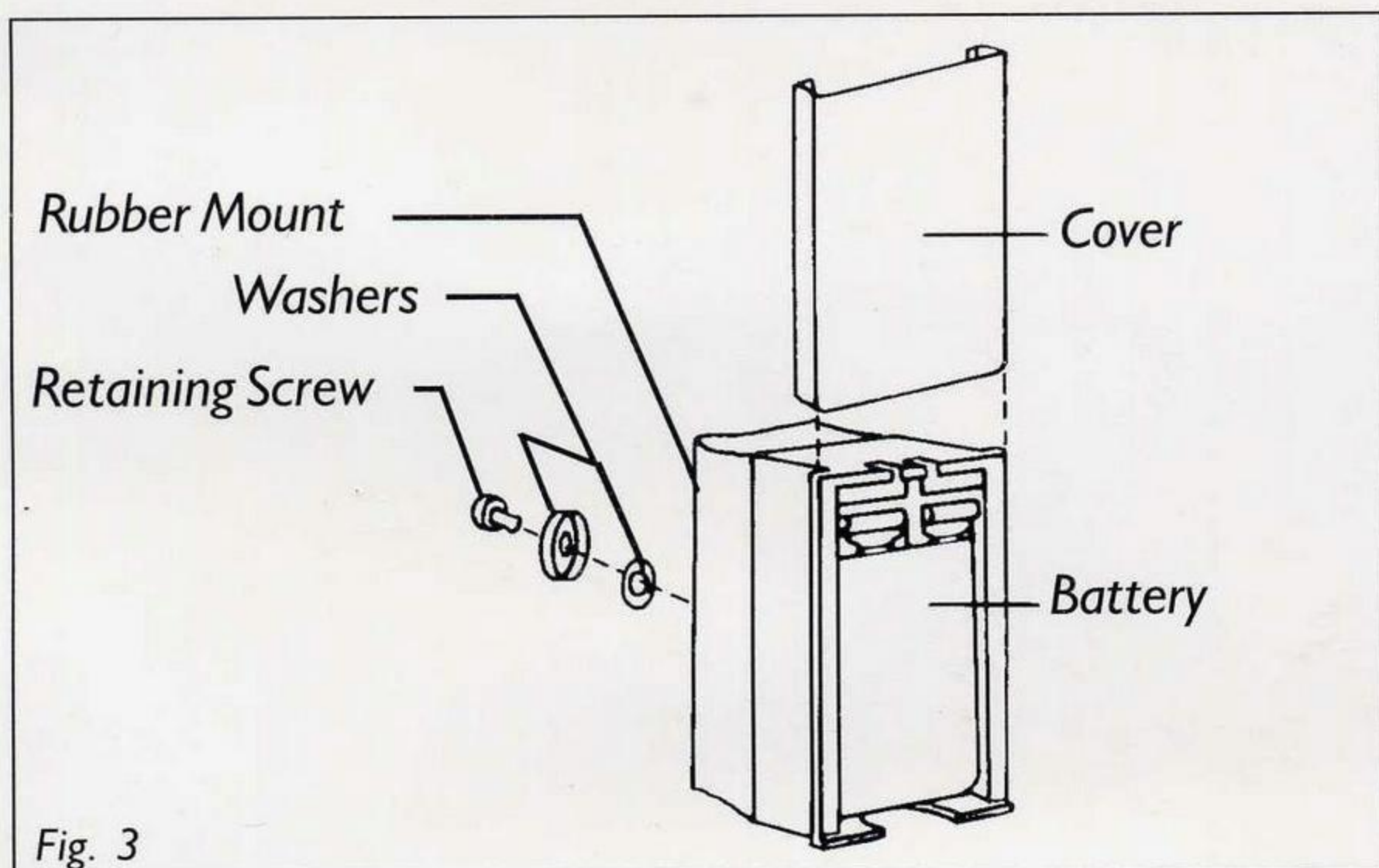


Fig. 3

The 1997 Collectors' Edition

is the 17th in a series that began in 1982. Each year the Ovation research and development team use this model to stretch the envelope of acoustic guitar design and applied research in preamp and pick-up technology. The 1997 Collectors' guitar is the first to feature a totally new Roundback bowl design. While the scale length of 25-1/4" is consistent with other acoustics, the down sized body has lines which are deeply rooted in tradition. The sound is more precise, focused, and clear. The volume is surprising.

Ovation has a long and rich tradition of innovation in acoustic electric preamp design. Simply put, the 1997 Collectors' Edition is revolutionary.

The **TS**[®] preamp has all of it's control elements mounted onto a flexible circuit board strategically placed inside the guitar at the waist and upper bout. Volume is instantaneously and repeatably controlled by touching the guitar body on the active area. To "run" the volume up, just slide your finger from the smallest to largest icon, discreetly placed in the guitar's finish. These markings also serve as reference points that allow you to return to precisely the same volume every time.

Ovation[®]