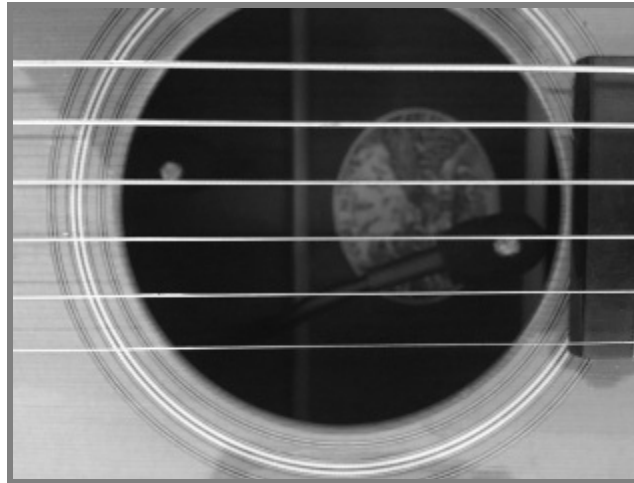


## MiniFlex 2Mic: Support Documents

### Incorrect 2MIC Positioning

At MiniFlex we receive many concerns regarding the undesirable sound coming from the 2MIC – especially with regards to what may be referred to as “low end rumble”. This low end rumble is a direct result of the improper positioning of the mic elements within the body of the guitar.

For example, this location for the mics is made by some Model 1 users – with the white dot on the windscreen, which is the active face of the mic, being pointed out through the soundhole, as shown in the following diagram:



This positioning of the mic elements should be avoided, and for the following reasons:

- The white dot on the windscreen indicates the active face of the mic – that is, the direction from which the mic receives the acoustical energy, or sound from the guitar.
- The active face of the mic needs to be facing the direction of air movement as this air passes from the center of the guitar and out through the soundhole.
- **Note:** In the above diagram, the position of both mics is actually blocking the mics from receiving the guitar's acoustical energy – and therefore, this natural movement of air.

In particular, please note the following:

1. For the mic on the end of the short gooseneck: This mic needs to be positioned approximately underneath the bridge. At MiniFlex, we usually recommend this mic to be positioned a bit on the treble side and with the white dot on the windscreen positioned at a slight angle towards the soundboard, and approximately one inch below the soundboard.
2. For the mic on the end of the long gooseneck: We have two suggested locations for you to try based on our testing and customer responses:
  - Leave the gooseneck basically where it is, but turn the mic around 180 degrees so that the white dot faces towards the back of the guitar.
  - Grab the gooseneck approximately 2 inches down from the mic and bend the end of the gooseneck 90 degrees – that is, at a right angle, so that the windscreen of the mic is positioned just below the strings and where the white dot is pointed back towards the guitar's bridge.

### “Mic Bounce”

Of particular interest is what will be referred to as “mic bounce” or where the mic on the long gooseneck does indeed move around a bit. Though some of our customers have shown concern for this phenomenon, it is indeed interesting to note that having this mic bounce is – in actual fact, *a good thing!* This means that the gooseneck is absorbing the physical vibrations of the guitar, providing shock

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## MiniFlex 2Mic: Support Documents

mounting to the microphone, and preventing “microphonic distortion”. This being said, if this “bouncing of the mic” reaches a level where any part of the 2MIC assembly actually begins to contact any interior surfaces of the guitar, then we can assist you with ways to stiffen the gooseneck as needed.

### “Happy Results”

As a result of the above information of proper mic element placement, one of our happy customers had this to say with regards to the repositioning of the MiniFlex 2MIC elements:

Many thanks for the quick reply, and keeping me along the right lines – or off the wrong ones. I followed your instructions for the short gooseneck, and I kept the long gooseneck where it was and turned it round towards the back of the guitar.

- The low end rumble has completely disappeared.
- To my ears the sound is absolutely fantastic – with minimal EQ from my EDB 2, and I’m sure it will be even better through a full PA.
- I get the feeling that I can play my instrument without any concession to the fact that I am amplified – which to my mind is the greatest compliment I can give a pick-up system.

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Patents: 5,010,803, 6,441,292 and 8,035,025 • Other patents pending

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