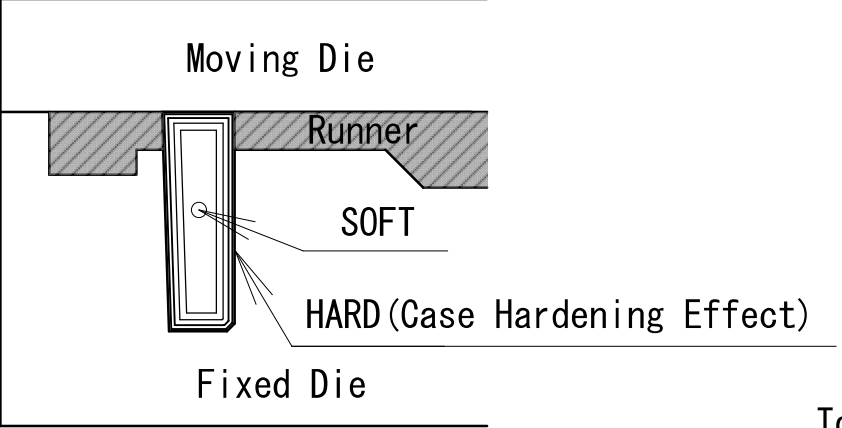
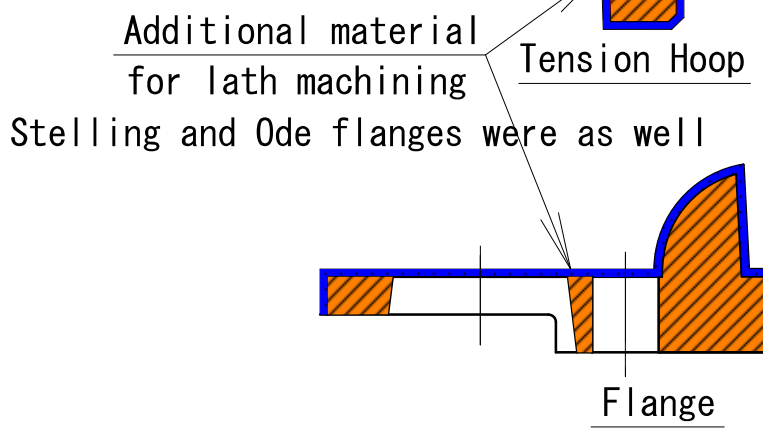


DIE-CAST BRASS TENSION HOOP



Vintage Gold Star Brass Die-cast Parts

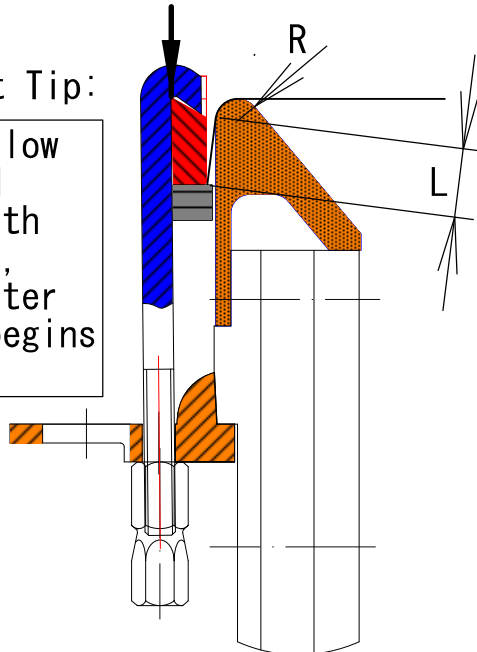


Vintage Gold Star strong Brass TENSION HOOP

Never been deformed
The load is concentrated on one point and binds the tension hoop and restrict vertical vibration.

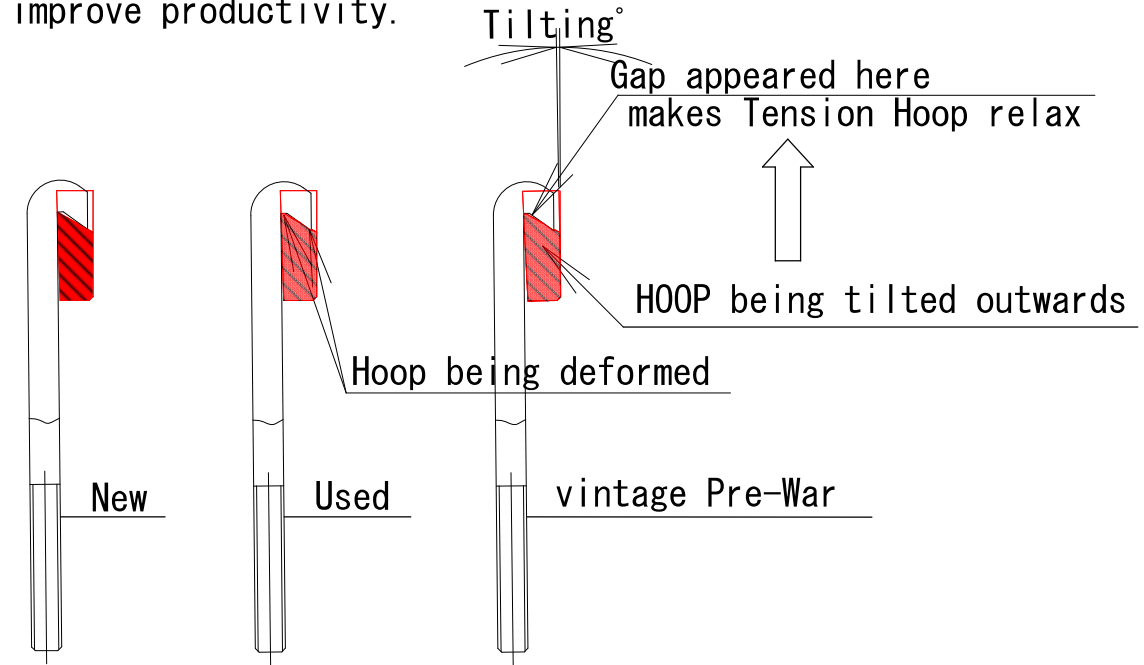
Tone Improvement Tip:

By adopting a low color head and a tone ring with a large radius, L becomes shorter and the tone begins to pop.



GIBSON Pot Metal soft TENSION HOOP

GIBSON adopted POT METAL to improve productivity.

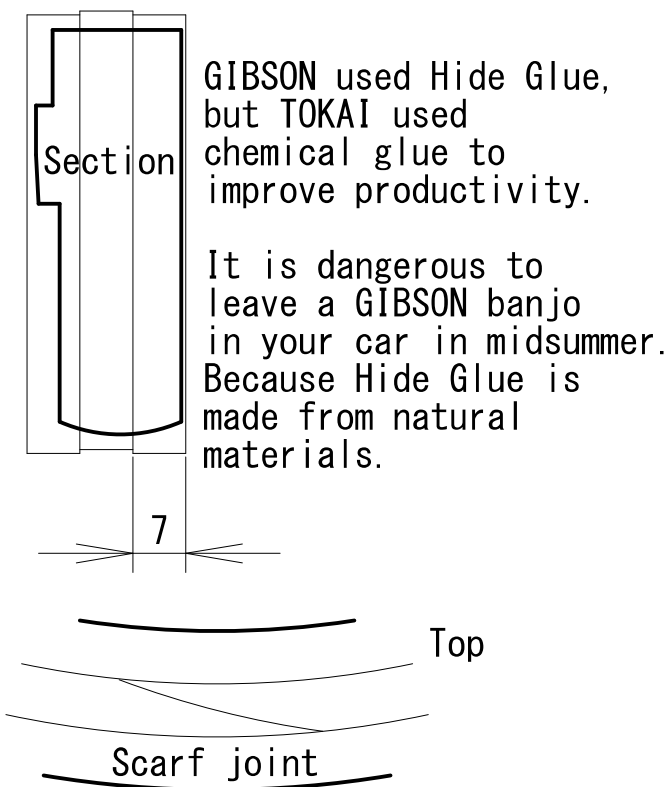


There is a problem with durability, but it has a good affinity with brackets.

The name zamak is the alloys are composed: Zink (zinc), Aluminium, Magnesium and Kupfer (copper). The New Jersey Zinc Company developed zamak alloys in 1929.

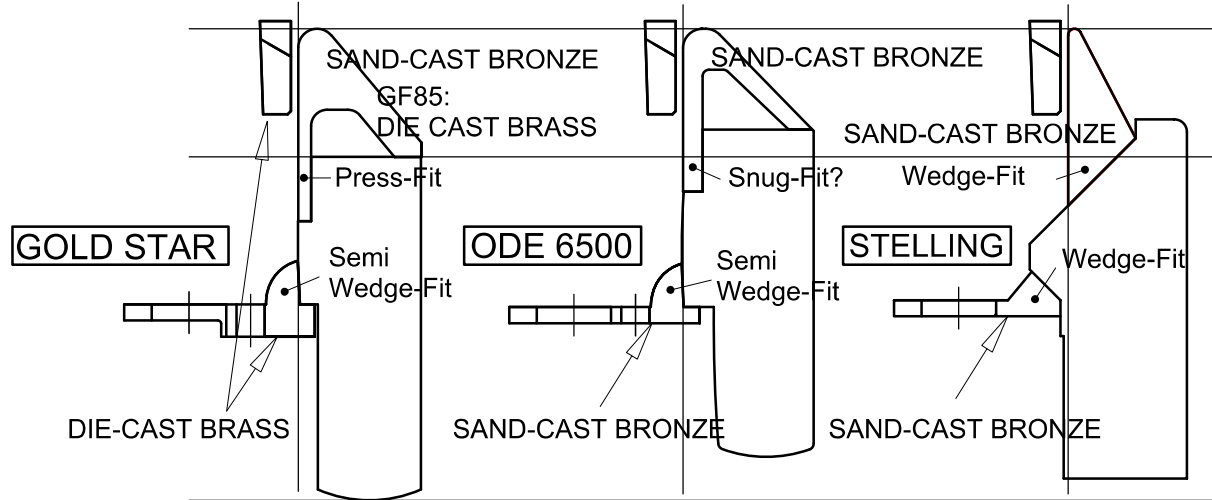
Vintage GOLD STAR banjo SERVICE BULLETIN 2022-#01 - Improve sound response and volume		
Pre-confirmation test	Very Important Permanent Countermeasure	Upgrade proposal
Add 1.6mm wire to the outer circumference of the head rim The tension of the head drops until it stabilizes due to the mechanism of engagement between the bracket and the tension hoop. Reduces restraint on tension hoops.	File off the edges remaining in the bracket groove horizontally. Gap File to 1.2~1.5mm width 1.2~1.5 0.8 * A sincere apology from me. This modification will recreate the specifications that the Vintage Gold Star banjos should have.	Bend the bracket outward Gap 13 30° Perfect Fit Works as a Pillow A 45 degree wedge is ideal, but it doesn't seem to be the case here. Most banjos are designed at 30 degrees and overdoing is likely to cause other problems. Making sound better

Vintage GOLD STAR History "3-ply rim construction"



BANJO CONSTRUCTION COMPARISON

All vintage Gold Star GF banjos had their tone rings assembled in press-fit configuration.



GIBSON:

POT METAL of flange and tension hoop was for cost reduction. POT METAL die casting was a new technology that was just developed at that time.

The reissue GIBSON seems to be simply an industrial product. In other words, the supplier is in charge of the main work, and GIBSON is in charge of finishing and assembly.

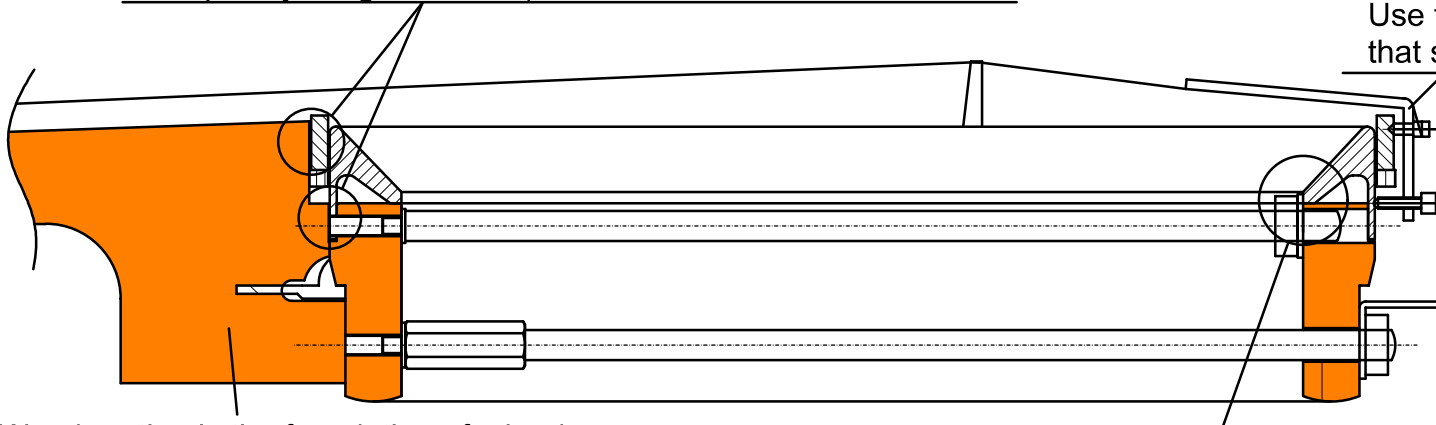
STELLING: Banjo building seems to be Mr. Stelling's hobby. Stelling has the best craftsmanship in its products. Functionally and craftsmanship is the best as a banjo. However, the sound seems to be different from GIBSON's.

GOLD STAR(TOKAI):

GOLD STAR was an industrial product. However, created all the drawings except the tuner, and made everything in-house except the hardware. Tokai already had tuner knob designed for arch top model two year earlier. The only downside was the lack of participation of craftsmen who knew banjos in production. I made three proto-banjos myself and that was all for them.

TOSHI's PERSONAL SET-UP METHOD

Set a gap between the neck and the tone ring & tension hoop.
Completely integrate wood portion which are neck and rim.



Wood portion is the foundation of a banjo,
The heavier the neck and rim, the less energy loss,
resulting in longer sustain.

That is why the bluegrass banjos are heavy.

Do not give too much tension to the strings.
A well-tuned banjo makes loud and clear sound.
Use the tailpiece as a regulator to get the sound
that suits your taste. Stelling Tailpiece is favorable..

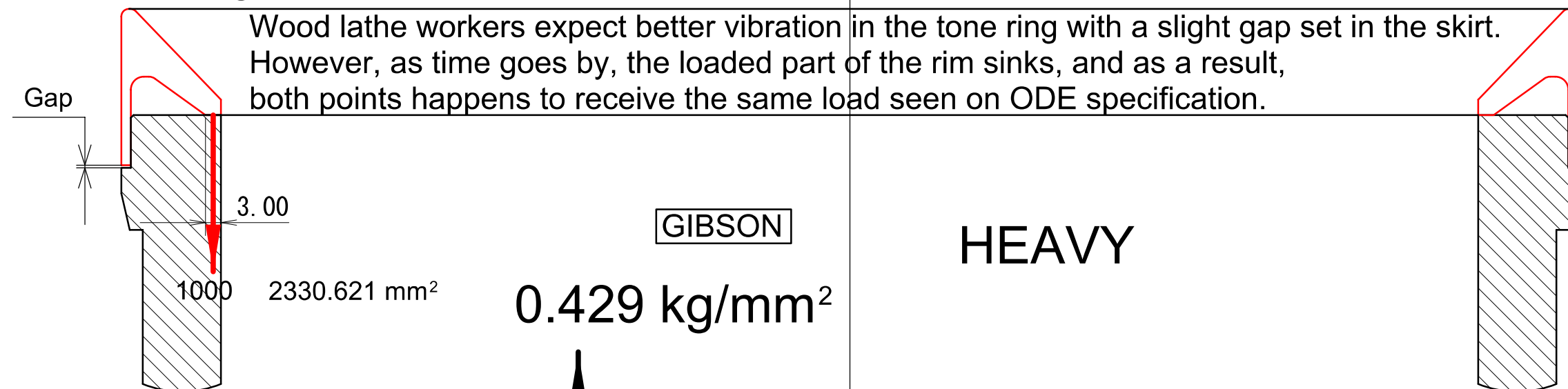
The precision-made and assembled (new?)
banjo produces high-quality sound even
with a press-fit tone ring(my JD & RB-18).
Players having older banjos prefer a snug
fit setting. Snug Fit contact between
the tone ring and the rim guarantees
sound reproducibility during reassembly.

Bring the washer at the end of the upper coordinator rod into contact
with the tone ring. It has the role of cutting overtones, jarring sounds,
and sustain that can be heard by adjusting the nut.
If not, the UPPER COORDINATOR ROD does not have to exist.
You can save weight by removing it.

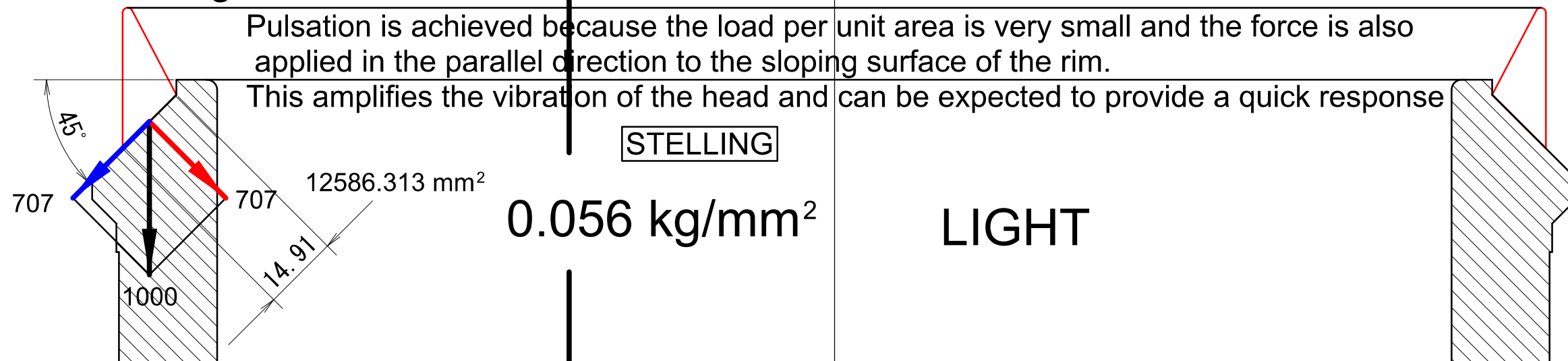
LOAD COMPARISON PER UNIT AREA FROM TONE RING TO RIM

May 2022

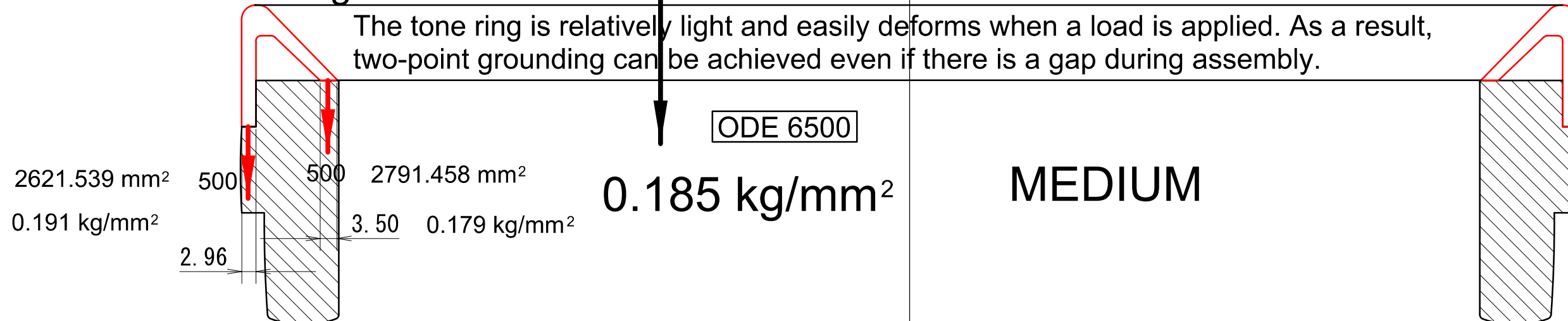
F=1000 kg - Tentative value



F=1000 kg

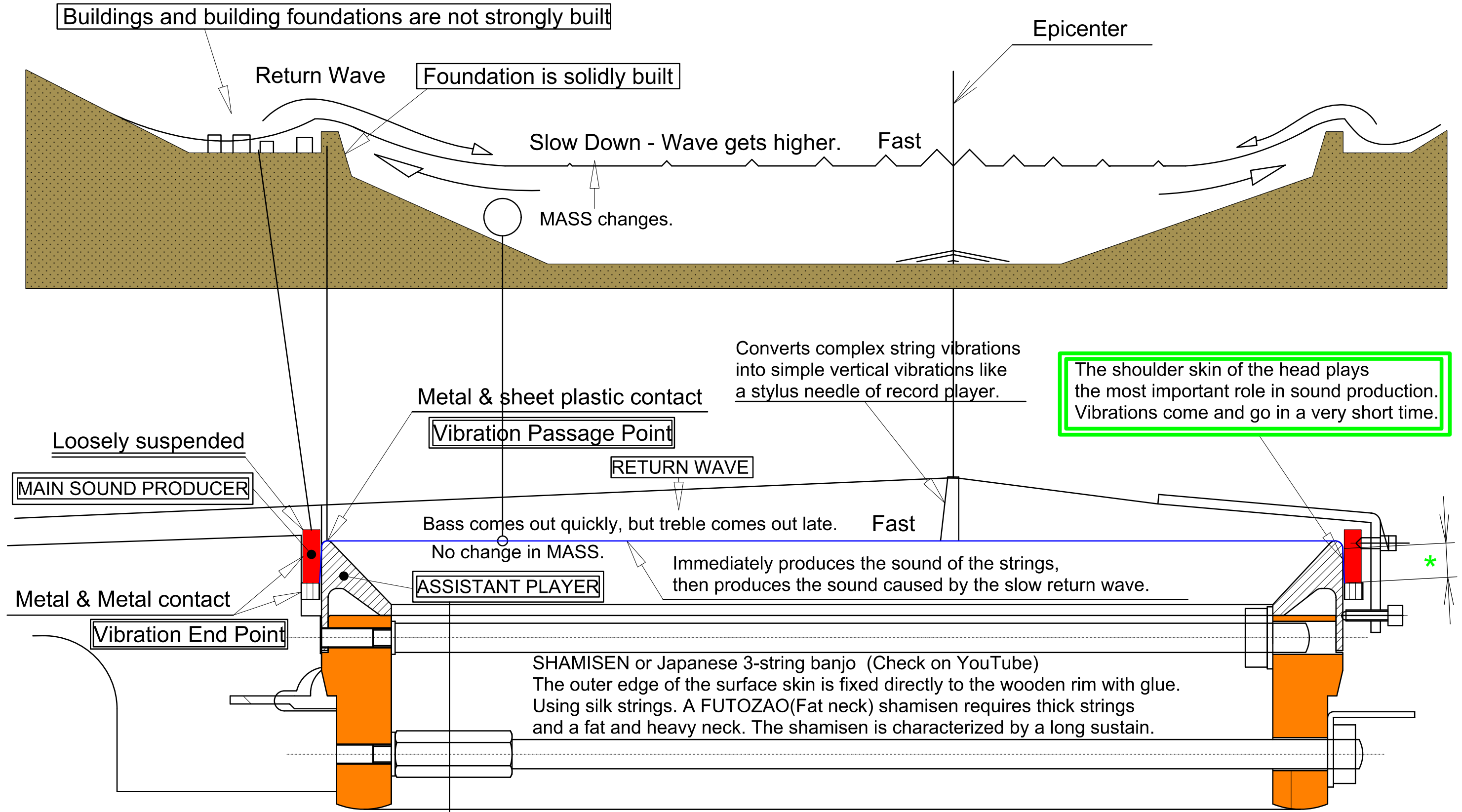


F=1000 kg



TSUNAMI and BANJO

May 2022



The function is similar to a bridge. However, it has the ability to season and intensify the generated sound.

TONE INTENSIFIER sounds better as a name than TONE RING to me.