



## JLS Flute Leak Isolator

Item #236056

### Purpose:

This simple to use tool will quickly help you locate all types of leaks in every model flute.

This tool will isolate the flute at different points along its length, and it will also isolate each pad individually.

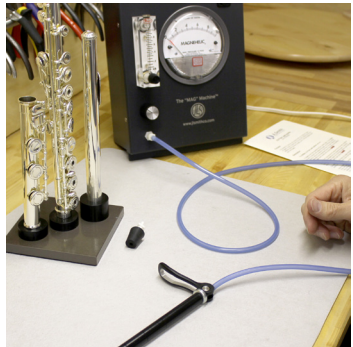
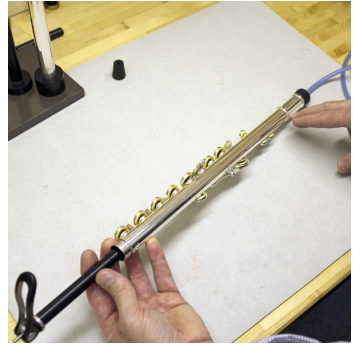
### Description:

The **236056 JLS Flute Leak Isolator** features:

A cam lever that expands the two rubber seals. This makes it easy to expand and release the seals, so that they can be moved to various locations in the flute. You can make fine adjustments to the expanded size of the seals by threading the cam lever inward and outward.

The central air tube sends the pressure from the MAG machine to its outlet between the two expanding seals. Press the flexible air supply tube from the MAG machine over the lever end of the air tube to get started.

The reference marks help you see where the center of the seals are in relationship to the tone holes.



*Note: Keep in mind that these marks were established to indicate hole locations for a variety of brands, but they will not be perfect for some brands because the scale varies between models. Notice*

*that every third reference mark is wider than the others to give further visual clarity.*

Reference marks are to align with the top end of the headjoint receiver (a.k.a. box). If you question which marks are for which hole locations, just put the ISOLATOR parallel to the flute and line up the reference mark with the box.

## In Use:

### Checking the body pads individually:

Insert the air hose from the Mag onto the central air tube of the tool.

Flip the lever to the lose position. Insert the tool from the North end of the flute (closest to musician when played).

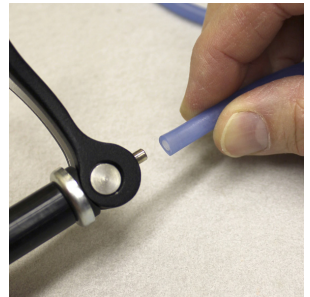
The 3rd mark is the first trill tone hole. Locate the tool here. Flip the lever to the expand position, adjusting if necessary (see description). Check the Mag reading. Flip the lever releasing the seal, and move the tool to the next location and so on. Touch the pad to the hole as if playing the flute when checking open sprung keys.

### Other reference marks:

4. second trill.
5. C key.
6. B (thumb).
7. Bb.
8. A.
9. G (the upper of the twin G keys).
10. G# and the lower of the twin G keys.
11. F#.
12. F.
13. E.
14. D.

### Checking the body collectively:

Run the MAG hose into a stopper at the foot tenon, then use the isolator as before. Now the end seal on the tool is the active one. Locate the end seal so that it is on the North side of each tone hole one at a time.



### Checking the foot joint pads individually:

Insert the tool from the South end of the foot. (South is furthest from the musician when played). The first reference mark is for the lowest hole on the footjoint, either B or C depending on whether it is a B or C foot instrument.

### Other Marks:

3. The next hole North (North is towards the musician when been played). This is either C on a B foot, or C# on a C foot.
5. C# on a B foot.
6. D# on a B foot.

The D# on a C foot will fall between the 4th and 5th lines.

### Checking the footjoint collectively:

Run the MAG hose into a stopper at the foot box, use the isolator as before positioning the end seal on the South side of each tone hole one at a time. Touch the pads being tested to the holes.

### Solder joints:

When checking the box joint (for solder gaps), you can run the Mag tube into a stopper at the top of the box, and use the ISOLATOR from the bottom (between 12 & 13). This lines up the Northern seal above the top trill hole.

Keep in mind that leaks you find may come from a number of sources-not just pad coverage.

Leaks can come from flaws in the skins, tone hole defects, the seal of washers and bushings and so on.

### Other:

It is good practice to clean the expanding seals occasionally. Wipe them off with Pledge or similar.

I hope these instructions have been thorough and helpful, and I hope this tool gives you many years of profitable use, and helps take your flute work to the next highest level.

Enjoy



The Flute leak Isolator is used in conjunction with our 236044 and 236044EU “MAG” Machines. The “MAG” Machine is the final word in determining to what degree an instrument is leaking. It helps locate leaks that cannot be found with other traditional methods such as leak lights and feelers. 110 and 220 volt versions available.



The 236044 JLS “MAG” Machine



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