

Shipping Bracket Installation and Removal Procedures

How to Use the Shipping Bracket on Your 1405F and 1405DF

Reason Behind the Shipping Bracket:

The mass transducer and sample tube assembly are set on springs inside the tower. This is to isolate the MT from any outside noise or vibrations during operation. Outside noise would be able to disrupt the microbalance frequency if it were not isolated. There are other reasons for the isolation that include temperature aliasing and rapid temperature changes in the shelter transferring to the TE energy with the expansion and contraction of the metals.

The shipping bracket is necessary to hold the mass transducer assembly in place while the unit is being moved from one place to another. This is critical in the stable operation of the instrument because any shifting of the MT while the enclosure of the unit is being moved around could result in leaks at the coupler seal of the switching valve.

The shipping bracket is located at the front of the mass transducer (Picture 1), the bracket installed in the shipping position (Picture 2):



Once the 1405F or 1405DF is installed in the enclosure, environmental shelter or other weather proof temperature controlled environment, you will need to place the shipping bracket in its neutral position.

To do this, the bracket will be removed by loosening the two thumbscrews holding it on and turned around 180 degrees. Then it is tightened back up by the two thumbscrews (finger tight) in the neutral position.

The bracket should look like this in the neutral position:



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