

# DrX Application Note

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| <b>DrX</b>       | DrRumble                                     |
| <b>Subject</b>   | Mounting DrRumble on curved bearing housings |
| <b>Note Ref.</b> | AN270.09                                     |

## Background

DrRumble provides a simple solution to preventing catastrophic bearing failure.

The principle DrRumble uses to detect bearing wear is to identify an increase in ultrasonic noise levels due to the breakdown of minute fragments in the bearing itself, and from the high frequency effects of ovoid wear. Fortunately in many cases the transmission of the ultrasonic noise can be picked up elsewhere on the machine housing close to the bearing and mounting of the unit is a relatively simple operation.

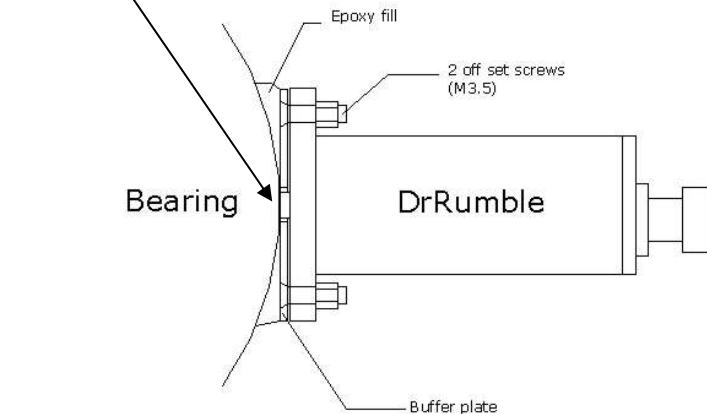
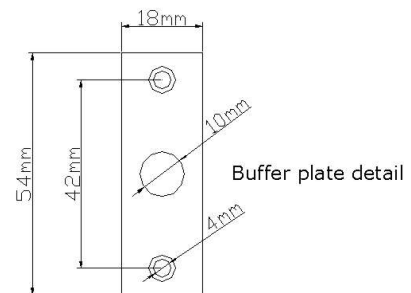
However, if the surface is curved, mounting of DrRumble on bearing housings can sometimes be difficult.

This application note provides a simple solution to the problem.

## Solution

By using a simple metal strip, with the same footprint as a DrX unit, most curved surfaces can be catered for.

Thickness is non-critical but a maximum of 1.6mm will ensure the bearing housing will have direct link with the contact sensor.



Two M3.5 set screws need to be added to the metal plate and then bonded onto the bearing housing by means of epoxy.

Once the adhesive has hardened the DrRumble can be fixed in position with M3.5 nuts and set up in the normal way.