

## Service Bulletin

<b>Title</b>	DAX GENERATOR INNER BEARING SEAL AIR HOSES
<b>Reference</b>	SB0006A
<b>Date</b>	22 <sup>nd</sup> APRIL, 2010
<b>Category</b>	Service Bulletin

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### Objective

To inform customers and operators of the improved inner bearing seal air hose design that is now available.

### Background

As part of our continuous improvement process which draws on a number of sources including site feedback, we have enhanced the routing and locking of our inner bearing seal air hose design, as detailed within the photographs contained herein. This improved design is now incorporated on all new machines that are manufactured by Brush.



**Before**



**After**

The probability of the inner bearing seal air hose failing is extremely low and from an installed base of over 2000 machines only a few isolated incidents have been recorded. Whilst these incidents are very rare and have occurred many years after the machines were manufactured, it should be noted that in the extreme case of a serious hose failure, the hose could come loose. This would cause oil leaks, due to loss of positive pressure on the inner seal, and create the potential possibility of the hose coming into contact with the aluminium generator fan which could lead to metallic particles then being ingested into the machine.

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## Recommendation

As part of a proactive preventative maintenance strategy the monitoring of the condition of the bearing seal air hoses should be incorporated into regular inspection routines, as these could be damaged during any installation or periodic maintenance work that is carried out on the generator.

Furthermore to augment current maintenance measures and to ensure that existing customers can benefit from the design improvement now available, we recommend that any old style hoses are changed out with the new improved design at the next convenient opportunity or scheduled outage.

The site retrofit procedure simply involves replacing and shortening the length of the hose, changing one fitting, adding a spacer (DAX 8 and 9 machines only), and applying thread lock (Loctite 243,) to all metal threads, (noting that the Loctite should not be applied to the nylon insulators). Access to the hoses is achieved by removing the steel cover plate that sits above the bearing at each end of the generator. Once the cover plate is removed the inner hose is easily accessible on the right hand side.

Once the generator is down and safe to work on the retrofit work can be completed at both ends of the machine within a 12 hour period.

## Applicable to

- All DAX machines manufactured prior to 2006.
- All DAX 8.445ERH fitted to Westinghouse steam turbines
- All DAX 9.450 ERH fitted to GE Frame 9 turbines.
- All DAX 7.290 ERHN fitted to GE Frame 6 turbines manufactured prior to 2009.
- All DAX 62.170ER fitted to GE Frame LM2500 turbines manufactured prior to 2008.
- All DAX 7.290ERJT fitted to GE Frame LM6000 turbines manufactured prior to 2007.

## Action required

Contact your local Brush Aftermarket representative to gain further information on this enhancement and to receive guidance with regards to planning and including this retrofit, within your next scheduled maintenance outage.

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