



## SERVICE BULLETIN

<b>Title</b>	BXJ40 EXCITER ARMATURE BANDING
<b>Reference</b>	SB0000003C
<b>Date</b>	24th SEPTEMBER 2009
<b>Category</b>	IMPORTANT: Action needs to be taken to safeguard capital equipment or personnel safety.

### Objective

To inform operators of a potential problem with exciter armature banding on certain generators.

### Background

There has been an isolated incident on a generator that had been in operation for approximately eight years resulting in the failure of the exciter armature end winding banding. The failed exciter was a drive through type and the failed exciter was replaced with a new exciter. Other identical machines at this site were inspected and two of these showed varying degrees of banding deterioration. One of these exciters was removed from service so that the armature banding could be replaced. The BXJ 40 series exciters have been fitted to BRUSH generators for more than 25 years and over this period in excess of 370 units have been installed. With the exception of the recent incident there have been no other reported failures of this nature.

### Applicable to

BXJ 40 exciters which are fitted to the following BDAX generators:

#### Double End Drive Models (drive through exciters)

BDAX 7-290ER  
BDAX 72-290ER  
BDAX 72-340ER

#### Single End Drive Models

BDAX 8-335ER  
BDAX 8-365ER  
BDAX 82-445ER

#### Generator Serial Numbers

901975.010 to 910790.010



**Note:** BRUSH have not experienced any problems with exciter armature banding on BX10 series exciters as fitted to BDAX 7 series single end drive generators.

**Recommendation**

As a precaution BRUSH recommend that exciters of any of the aforementioned generator frames are inspected on a regular basis, (5000 running hours or 250 starts, whichever occurs first), until further notice. If exciter armature banding damage is evident BRUSH recommends that the armature is removed from service and the exciter banding is replaced as soon as possible. In the event that there are any issues arising from the inspection we recommend that you contact BRUSH for further clarification or assistance.

**For further information please contact**

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**Issued by**

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