SB 77-101

Measure the gap in the electro-magnetic brake

2018-11-27

Rev. C

1 Scope and Target Group

⚠️ **WARNING**

- ✓ Always refer to the user manual for additional information and safety warnings.
- ✓ Only perform this task if you are qualified to carry out the steps described below.
- ✓ Always make sure that the tasks described in this bulletin are intended for the equipment you are working on.
- ✓ If you are unsure about the workflow, steps or qualification, contact your TTS aftersales service contact.

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2 Problem

NOTICE

The correct width of air gap between the coil and the armature plate is very important to make sure that the electro-magnetic brake functions correctly.

The maximum air gap depends on the size of the brake (refer to the brake rating plate for exact gaps). As the friction material wears down, the air gap becomes larger.
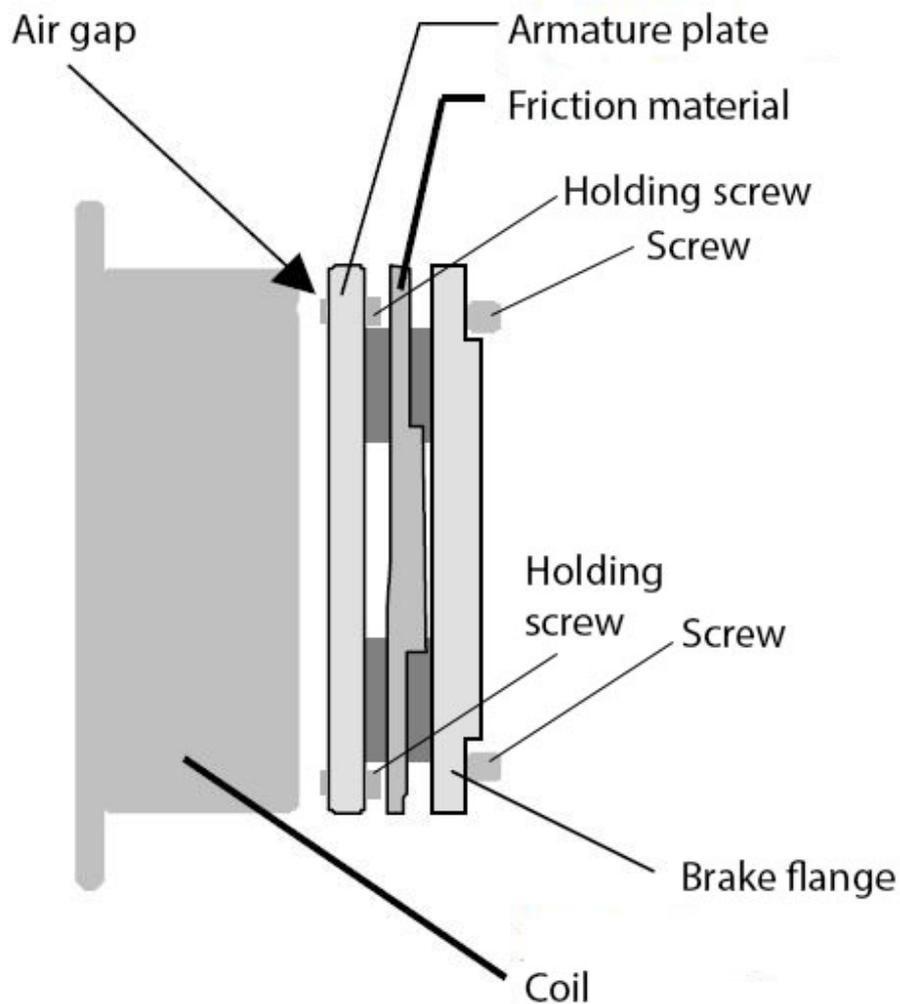

Figure 1: Electro-magnetic brake

3 Solution

Measure the air gap

1. Remove the three bolts with sealing rings placed around the casing.
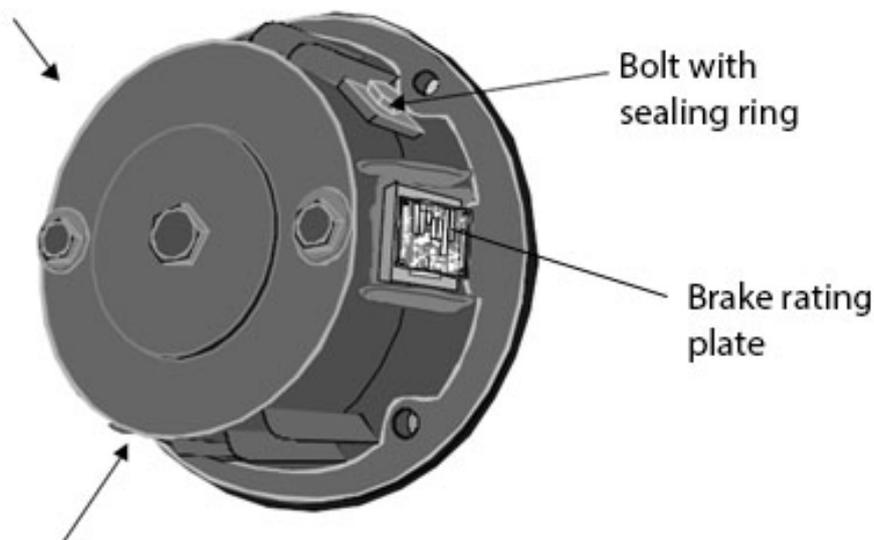

Figure 2: Bolts placed around the casing

2. Insert the feeler gauge into each one of the holes in the casing.
3. Use a feeler gauge to test the space between the brake flange and the friction material to determine the size of the air gap.
4. For exact maximum air gaps according to your brake, refer to the brake rating plate.

If the air gap is over the maximum:

5. Use an allen key to screw the holding screws tighter so that the armature plate is against the coil.
6. Remove the screws on the brake flange.
7. Flip brake flange so that the side that is not worn down is next to the friction material.

NOTICE   If necessary, replace the brake flange.

8. Replace the screws on the brake flange
9. Place the holding screws so that the head of the holding screw is next to the brake flange. Make sure that the holding screw is tight and cannot turn on its own.