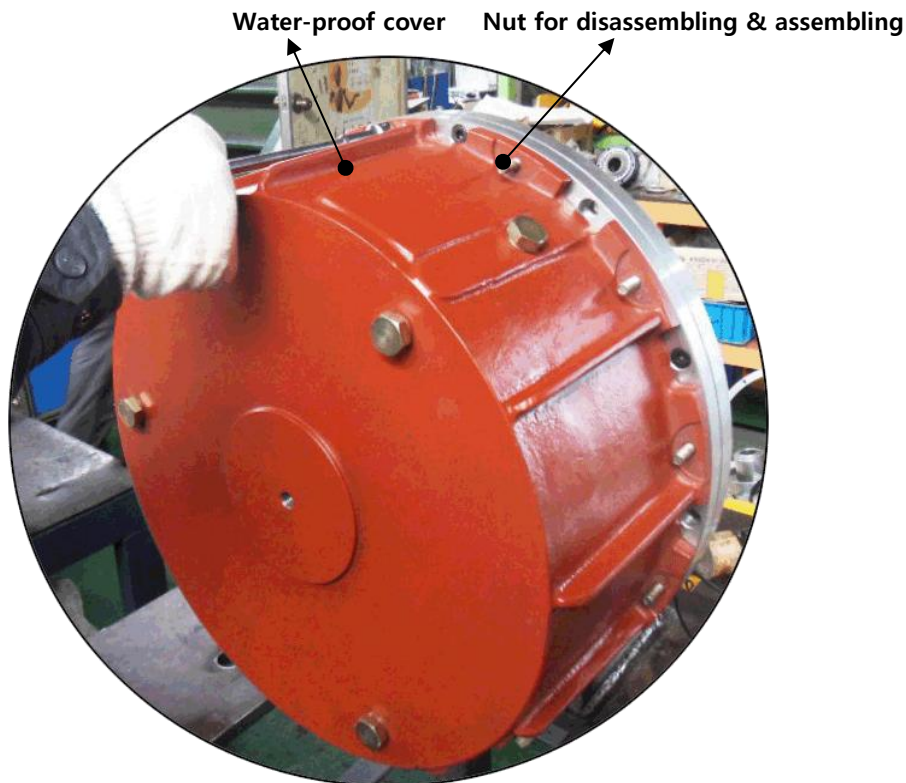


# SAFETY MAGNETIC BRAKE manual - HMBB type

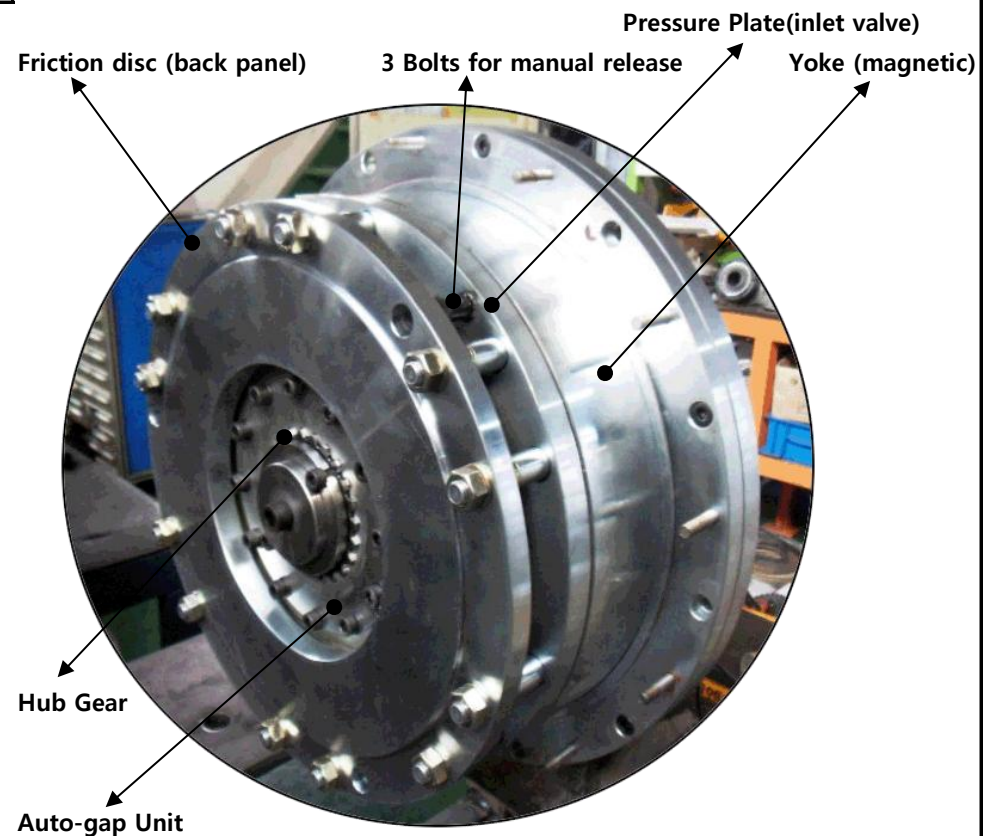
## Manual for Adjusting GAP 1 of 5

### 1 Disassembling casting water-proof cover



1-1. Disassembling water-proof cover - Separate the cover from the body by disassembling all the nuts as shown above.

### 2 The brake after disassembling the cover

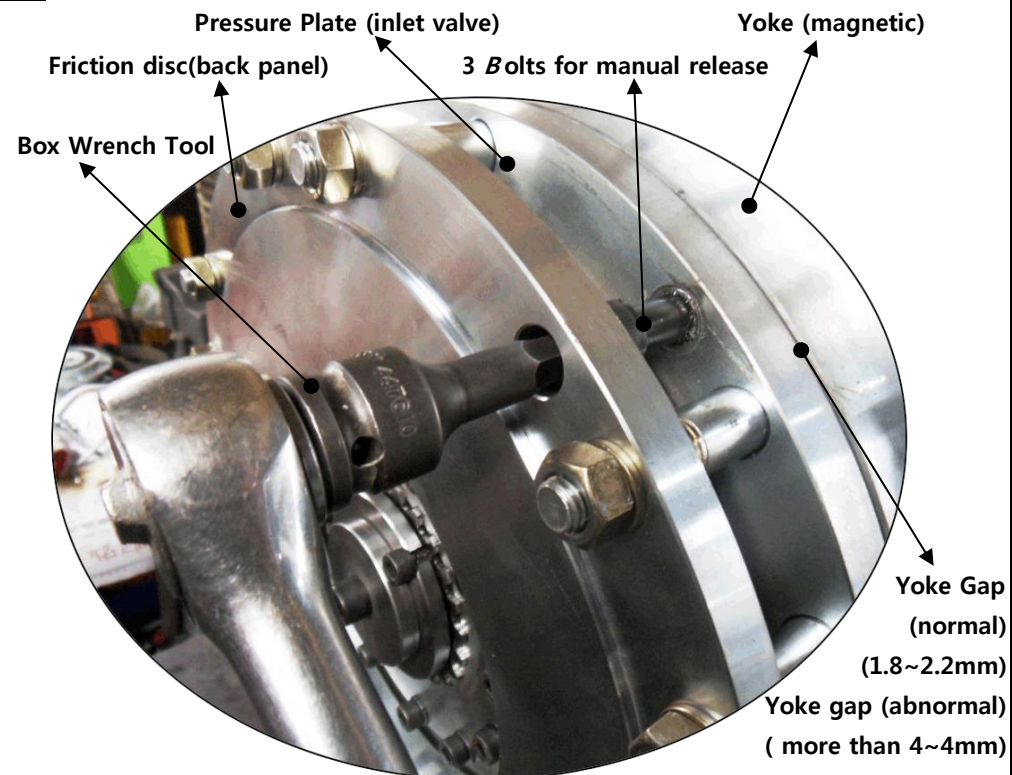


2-1. As shown above, this is how the brake looks like after disassembling the cover.

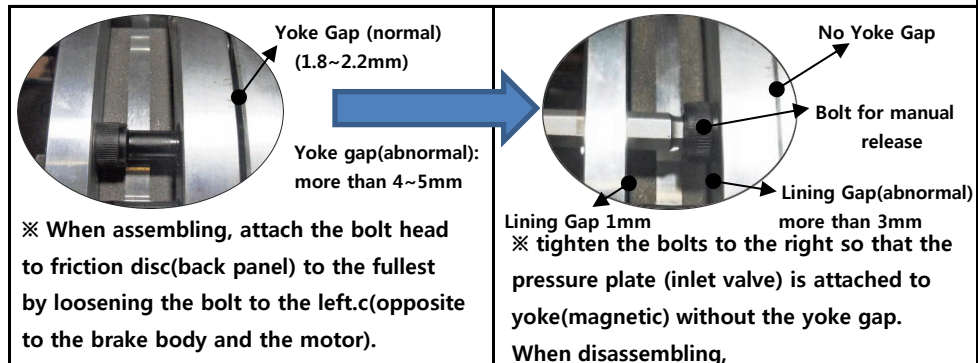
# SAFETY MAGNETIC BRAKE manual - HMBB type

## Manual for Adjusting GAP 2 of 5

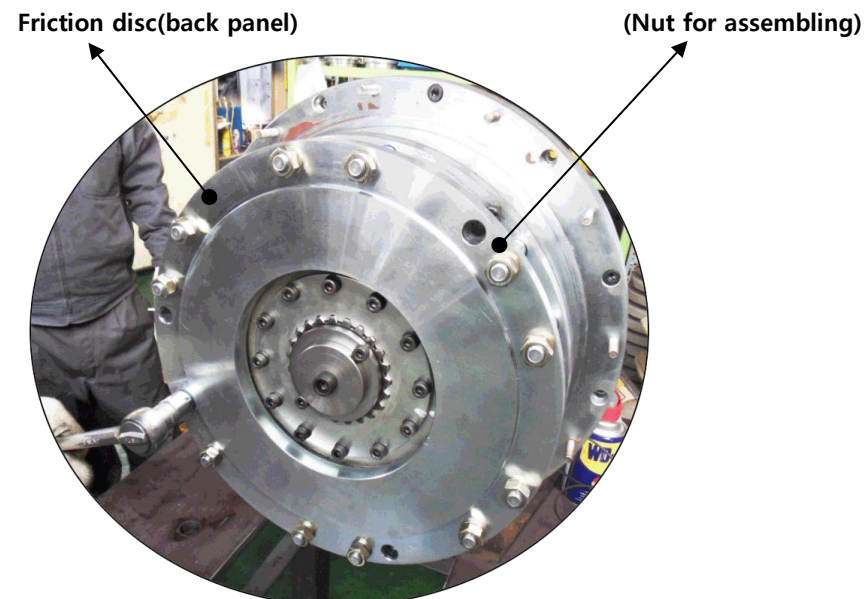
### 3 Manual Release- The power of the brake is off.



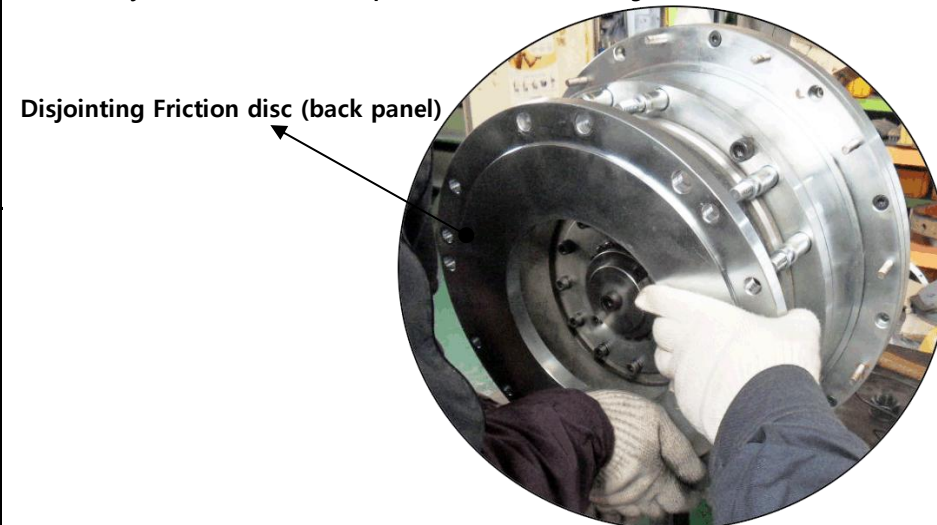
3-1. For manual release, tighten the bolts to the right using box wrench so that the Pressure Plate (inlet valve) is attached to Yoke(magnetic) without the yoke gap.



### 4 Disassembling Friction disc (back panel)



4-1. Disjoint Friction disc(back panel) after disassembling the nut fixated on the brake.

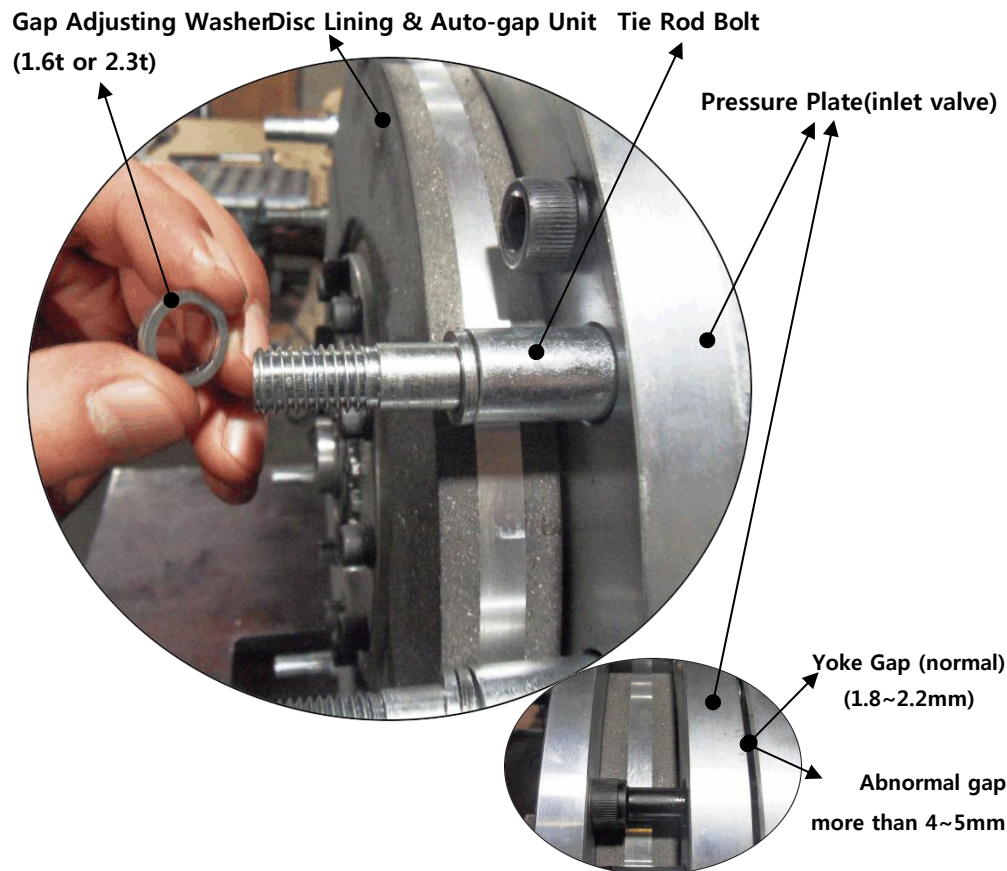




# SAFETY MAGNETIC BRAKE manual - HMBB type

## Manual for Adjusting GAP 3 of 5

### 5 Removing Gap Adjusting Washer



※ Gap must be adjusted when yoke gap is abnormal (more than 4~5mm) due to lining wear.

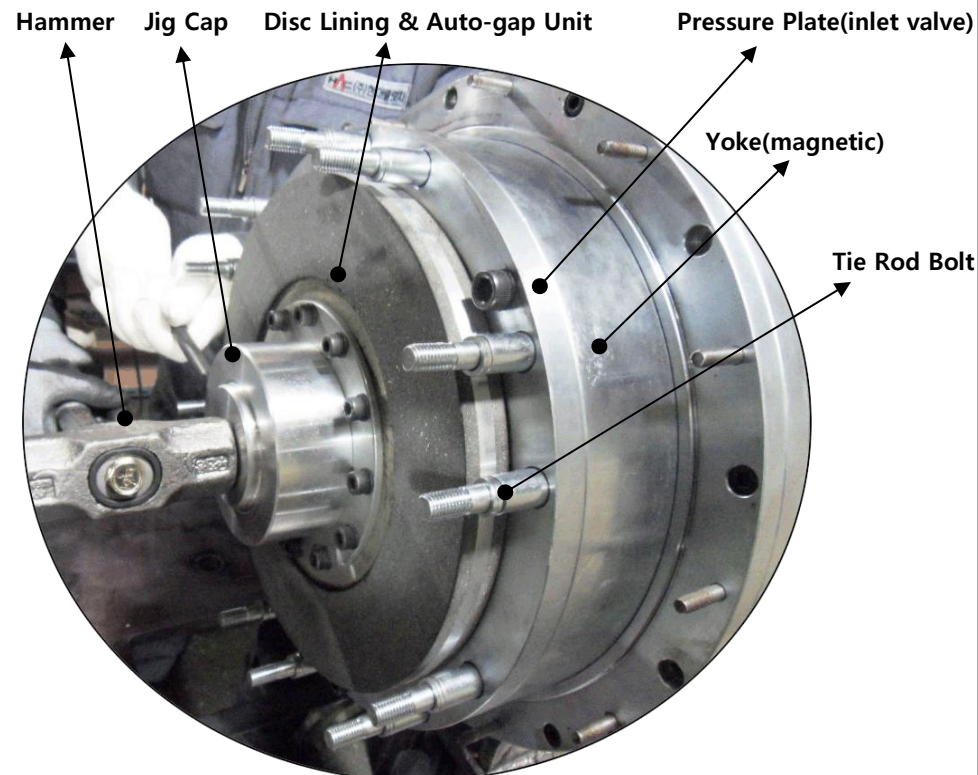
5-1. Check Gap Adjusting Washer in Tie Rod Bolt. (1.6mm & 2.3mm)

5-2. Remove Gap Adjusting Washer from each Tie Rod Bolt until the gap gets back to normal.

5-3. E.g : If total gap is about 4.5mm, normal gap (2.2mm) can be formed by removing 2.3mm t of Gap Adjusting Washer.

5-4. Since there are 2 types of Gap Adjusting Washer (1.6mm t & 2.3mm t), using the right type of washer is crucial.

### 6 Adjusting Disc Lining & Auto-gap Unit (Hub Gear + Lining + Auto-gap Assembly)



6-1. Make the Disc lining be attached to Pressure Plate (inlet valve) by patting on Lining & Auto-gap Unit 2~3 times toward the motor by using Hammer and Jig Cap as shown above.

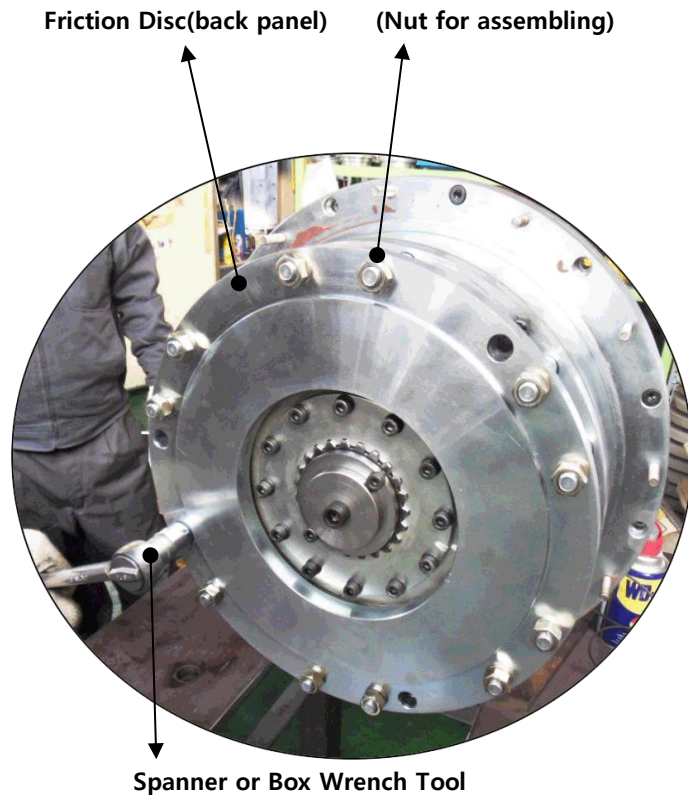
※ This step is crucial for placing Auto-gap Unit to right position after lining wear.

※ In case the Disc lining needs to be replaced, refer to the attached manual for replacement and reassembling.

# SAFETY MAGNETIC BRAKE manual - HMBB type

## Manual for Adjusting GAP 4 of 5

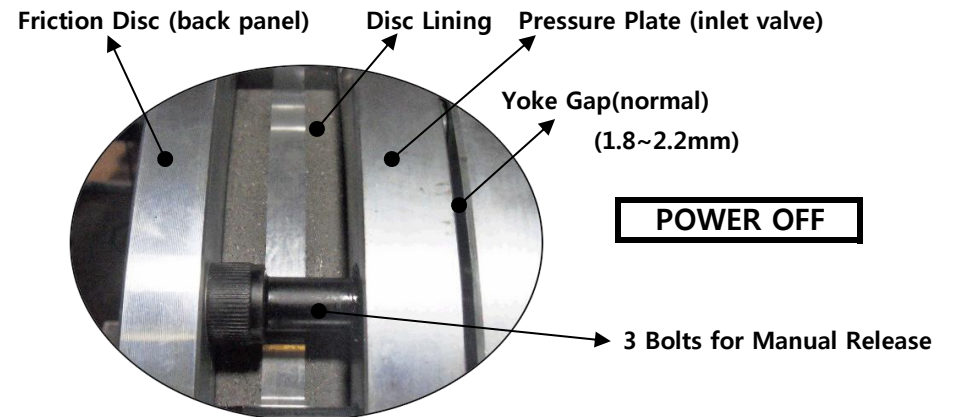
### 7 Re-assembling Friction Disc (back panel)



7-1. Re-assemble Friction Disc(back panel) with the Nut.

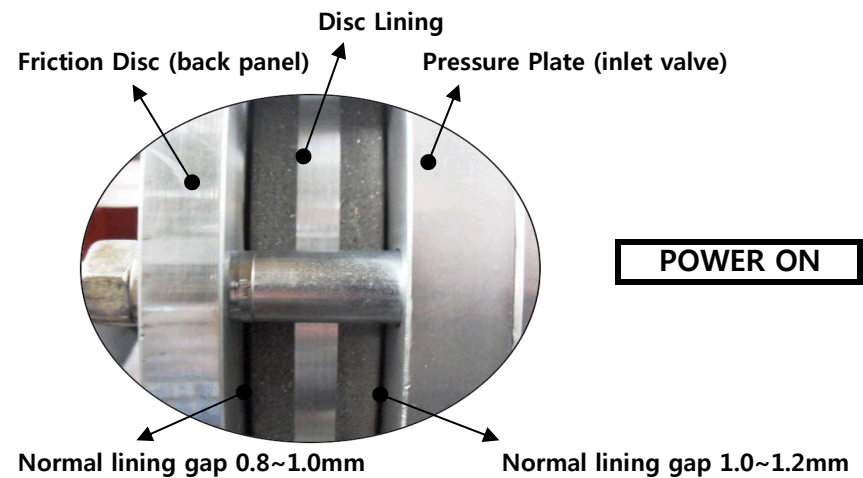
7-2. When assembling, 4 nuts (up,down,right,left) should be assembled first before assembling the rest.

### 8 Bolt for Manual Release and Checking gap



8-1. Attach the bolt head to Friction disc(back panel) to the fullest by loosening the bolt to the left.(opposite to the brake body and the motor)

8-2. When the power is off, Yoke Gap should be 1.8~2.2mm as shown above.



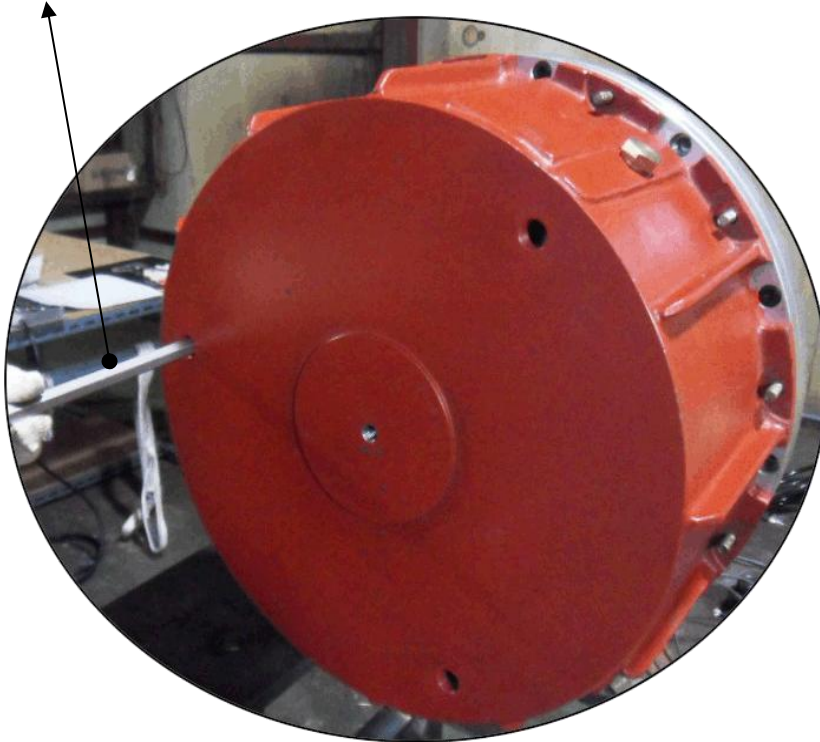
8-3. After the power is on, both gaps should be within the range as shown above.

# SAFETY MAGNETIC BRAKE manual - HMBB type

## Manual for Adjusting GAP 5 of 5

### 9 Checking the hole for assembling Water-Proof Cover

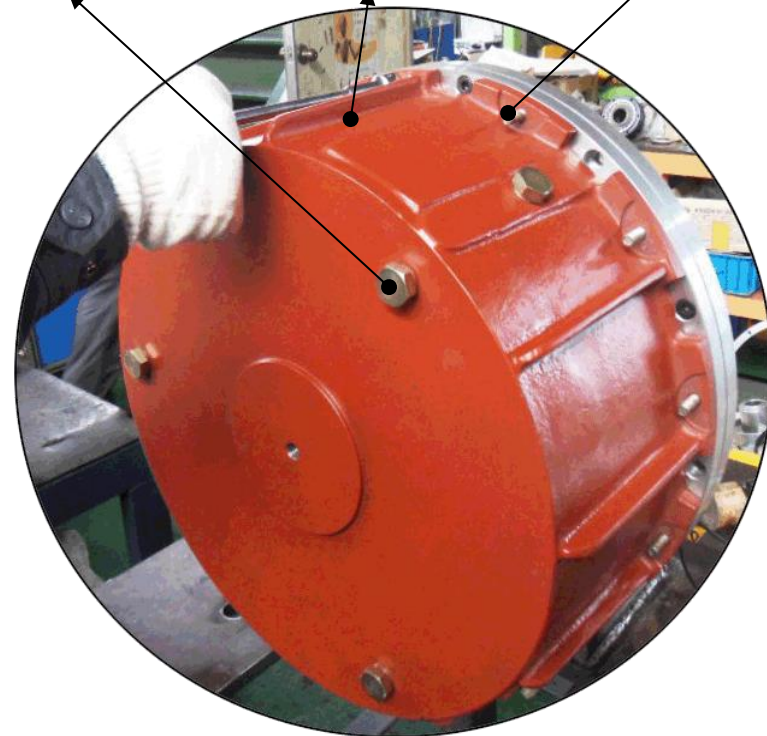
Check where the holes for manual release are placed. ( 3 places)



9-1. Place the cover on the right place and check if it fits the Bolt using L-wrench.

### 10 Assembling Water-proof Cover

3 Plugs for manual release      Water-proof cover      Nut for assembling and disassembling



10-1. Assembling Water-proof Cover by tightening the nut as marked above.

10-2. Make sure to assemble 4 nuts (up,down,right,left) first and then assemble the rest.

10-3. Make sure to re-assemble 3 Plugs so that water doesn't get into the brake.