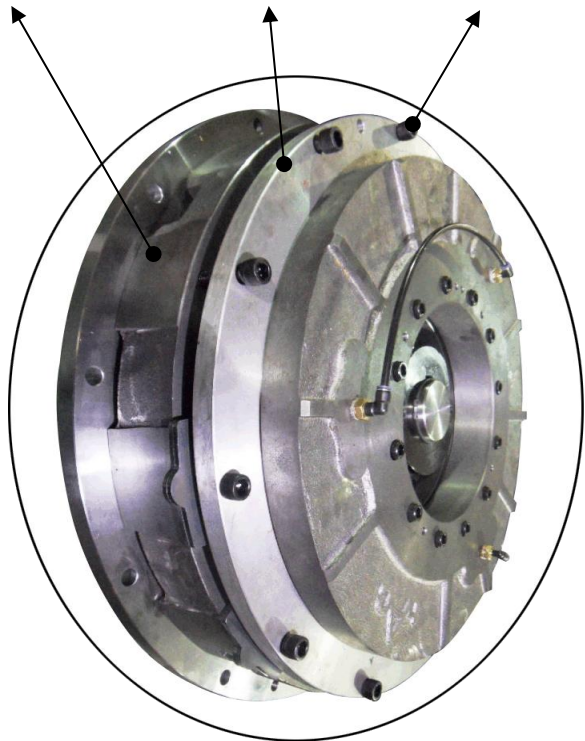


SAFETY AIR BRAKE manual - HABB type

Manual for Disassembling PART 1 of 3

1 Disassembling Internal Gearing and Aluminum Piston

Internal Gearing Aluminum Piston Bolt(for assembling)

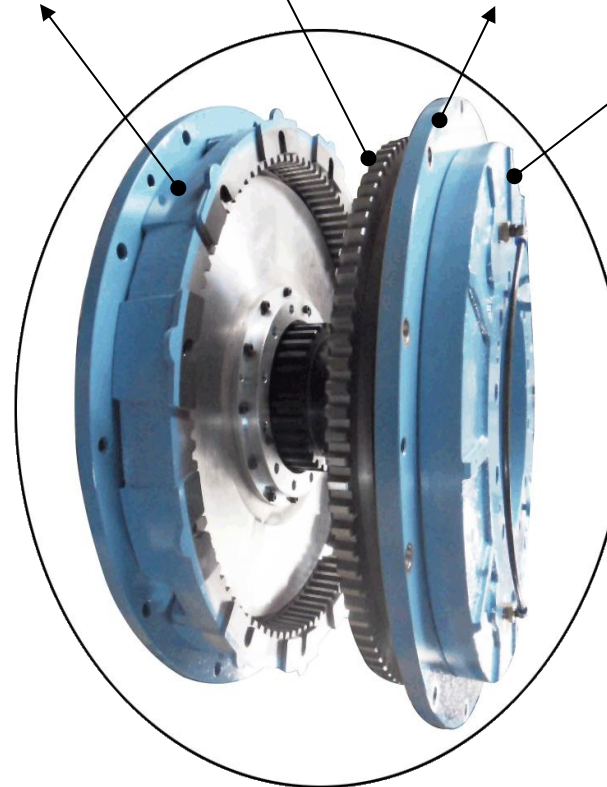


1-1. Loosen the bolt assembled with Internal Gearing and Aluminum Piston.
(Mark the spot where it was assembled)

※ If possible, supply air pressure and loosen the bolt afterwards.

2 Disassembling Cylinder, Aluminum Piston and Pressure Plate Internal Gear Set

Pressure Plate Internal Gear Internal Gearing Aluminum Piston Cylinder

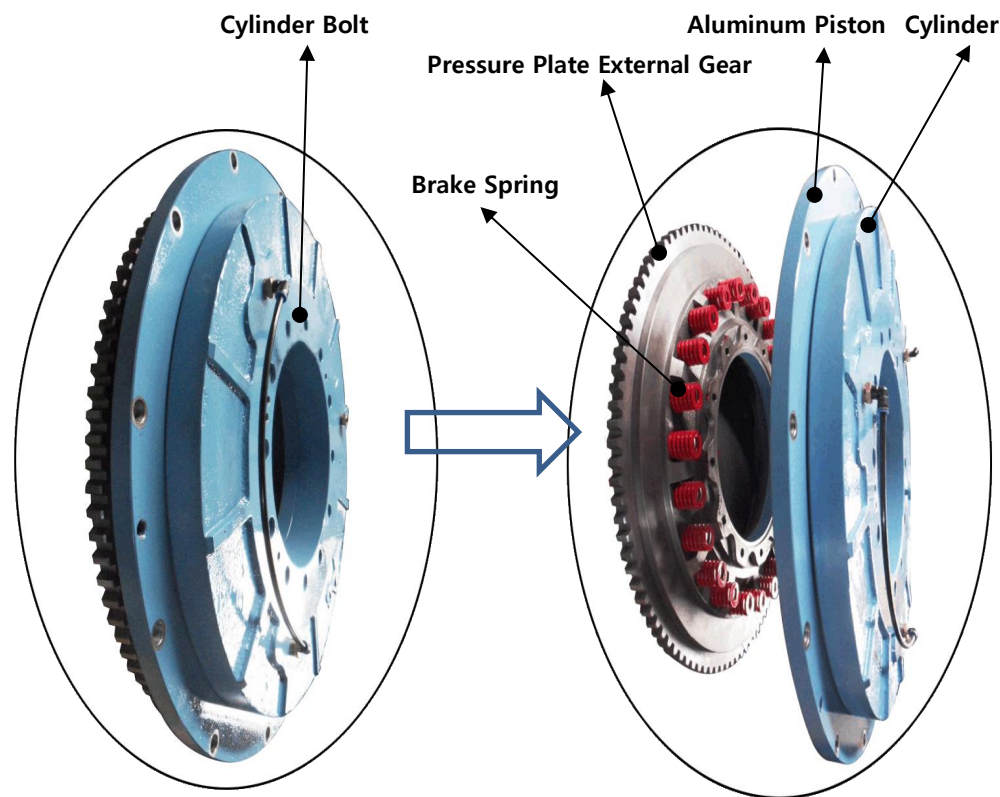


2-1. Disassemble the triple setting where Cylinder, Piston and Pressure Plate Internal Gear are assembled.

SAFETY AIR BRAKE manual - HABB type

Manual for Disassembling PART 2 of 3

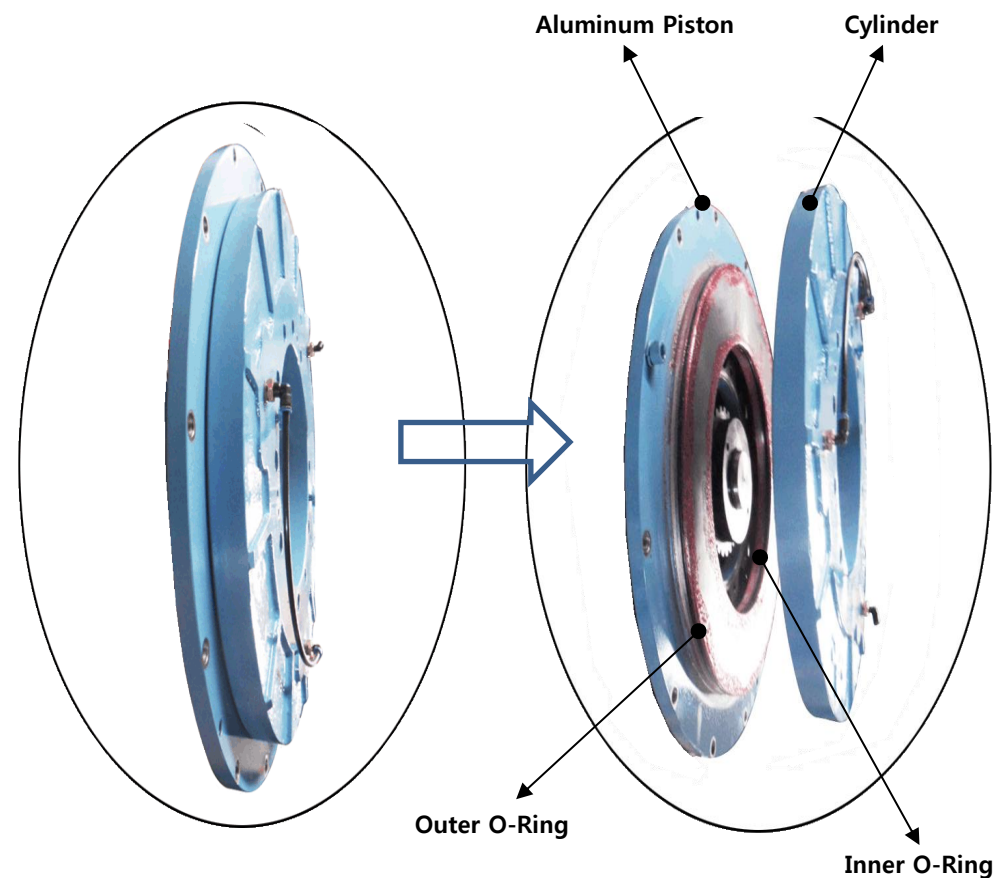
3 Disassembling Cylinder, Aluminum Piston and Pressure Plate into each unit.



Cylinder, Aluminum Piston and Pressure Plate External Gear (Triple setting)

3-1. Disassemble Pressure Plate External Gear and Cylinder by loosening the bolt located at the Cylinder and Cylinder bolt at the inside where piston is assembled. Note that there is a strong Brake Spring between Aluminum Piston and Pressure Plate and that it can incur danger if the spring bounces off. Therefore, the Cylinder Bolt should be loosened by decreasing its elasticity in order.

4 Disassembling Cylinder and Aluminum Piston

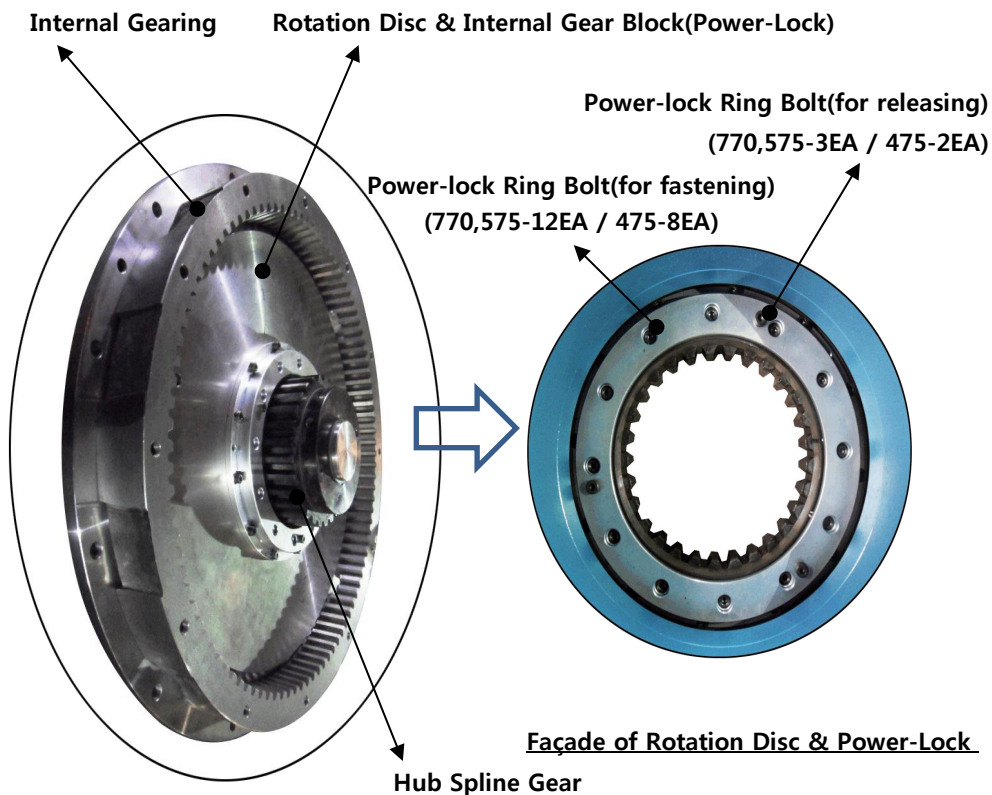


4-1. Disassemble Cylinder and Aluminum Piston.
※ Be careful not to damage O-Ring on Piston.

SAFETY AIR BRAKE manual - HABB type

Manual for Disassembling PART 3 of 3

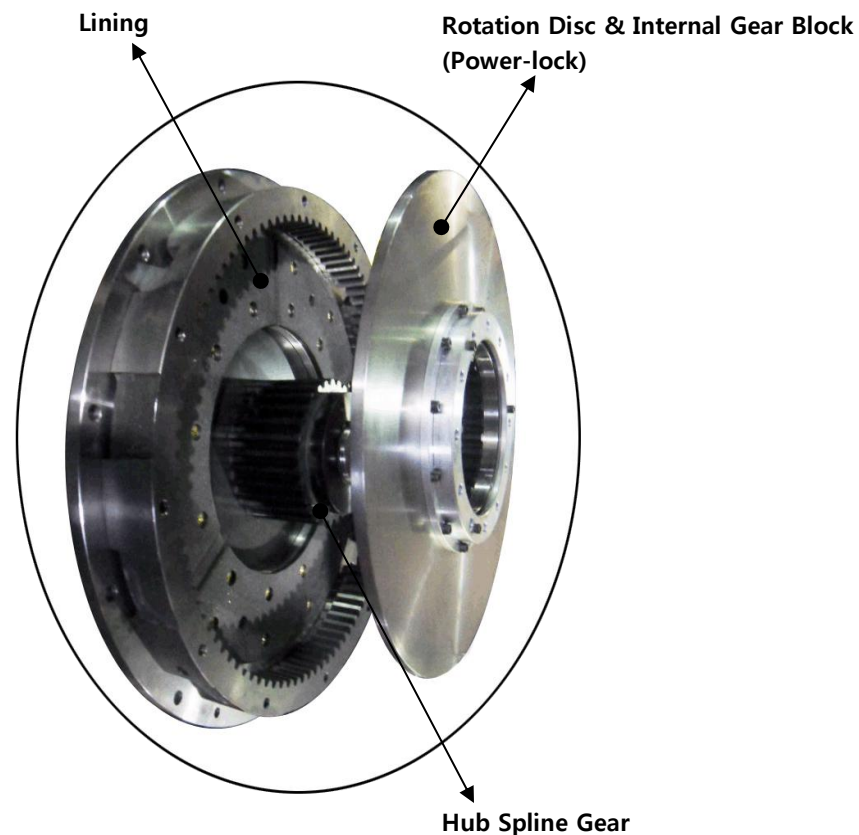
5 Auto-gap (Power-lock)



5-1. By releasing Power-lock Ring Bolt(770,575-12EA / 475-8EA) that was assembled at the Power-lock(Auto-gap) device, Power-lock Ring gets widened. Only can Internal Gear move freely under this condition.

5-2. By inserting Power-lock Ring Bolt(Wrench Bolt with the length of 8mm x 20) and tightening it in right direction, Power-lock Ring is widened and Rotation Disc & Power-lock can be easily disassembled.

6 Disassembling Rotation Disc and Internal Gear Block(Power-lock)



6-1. Get Rotation Disc and Internal Gear Block (Power-lock) out from Hub Spline Gear.