5. Check, Adjustments, Maintenance

⚠ Danger

• When you conduct checking, adjustment, maintenance, make sure to turn off the power. Otherwise it may result in injury or electric hazard.

⚠ Warning

• The covers that you had removed during inspections, adjustment, maintenance, make sure to assemble them again.
If not, it may result in injury.

5.1 Pre operation check

• Perform checking in accordance with the following pre operation check.
If something wrong, adjust or do maintenance.
For the operation that is not mentioned in this “Instruction Manual”, contact the company where you bought from.

Items for pre operation check	Page	Remark
Slack or damage in Friction motor V-belt	P.49	
Slack or damage in Abrasive motor V-belt	P.50	
Slack or damage in Feed V-belt	P.50	
Clean the outlet	P.51	

5.2 Regular check table

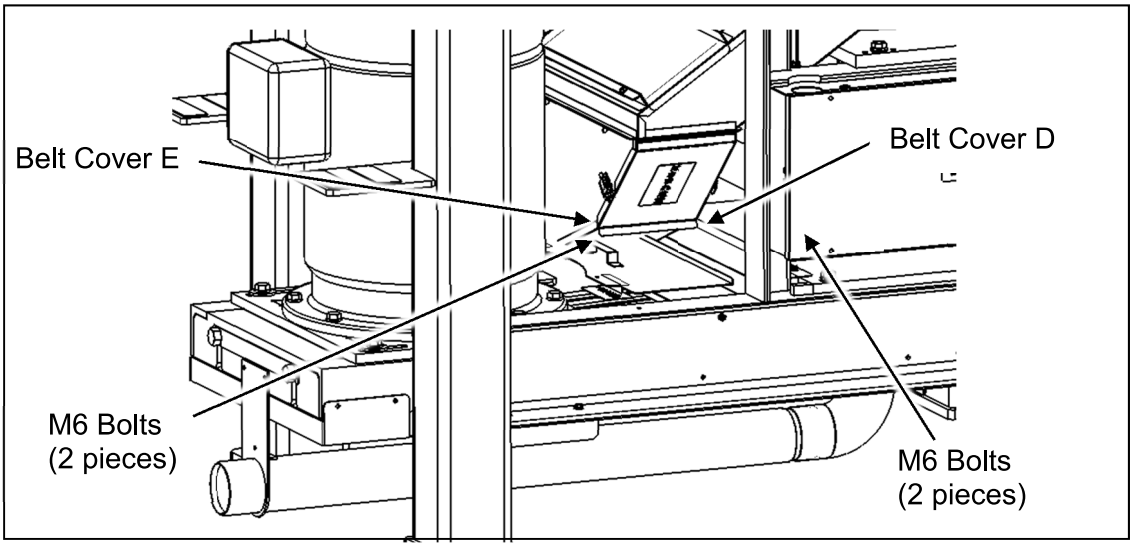
• Perform checking in accordance with the following regular check table.
The check timeline is the recommendation based on 8 operating hours per day.

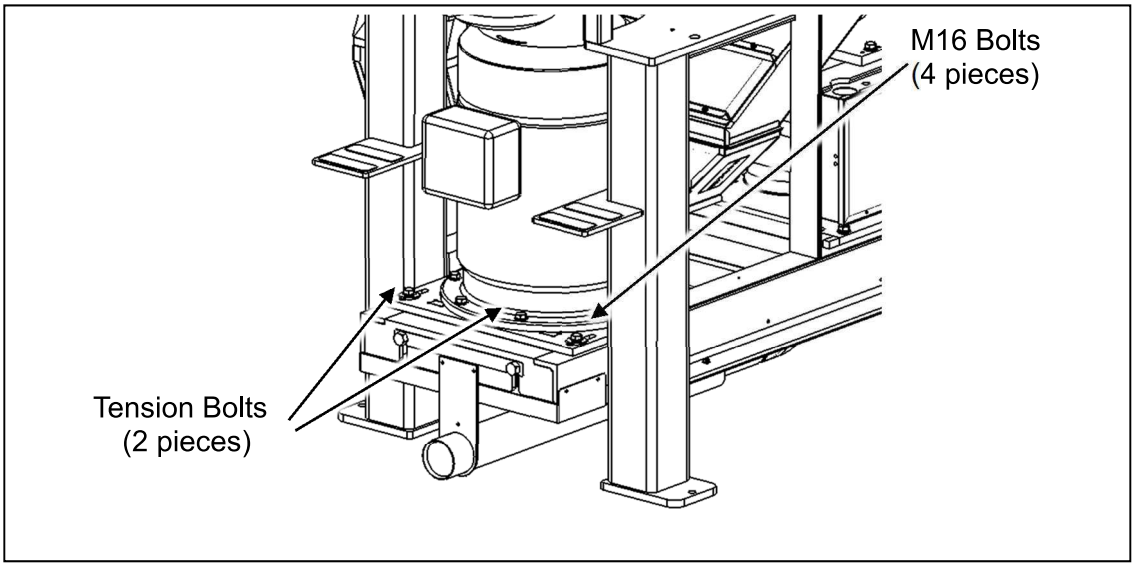
Items for regular check	Check period		Reference page	Remarks
	Weekly	Monthly		
Clean the Bran removal chamber in Friction section.	●		P.52	
Clean the bran removal chamber in Abrasive section	●		P.54	
Clean the Bran Duct section.	●		P.56	
Clean around the Feed area	●		P.57	
Clean the Rotary Valve		●	P.58	
Clean the Blower Fan Filter.		●	P.60	
Check for damaged wires and retighten the terminal block		●	P.61	

5.3 Check, Adjustment, Maintenance

5.3.1 Tension adjustment for motor V-belt

<Friction section>





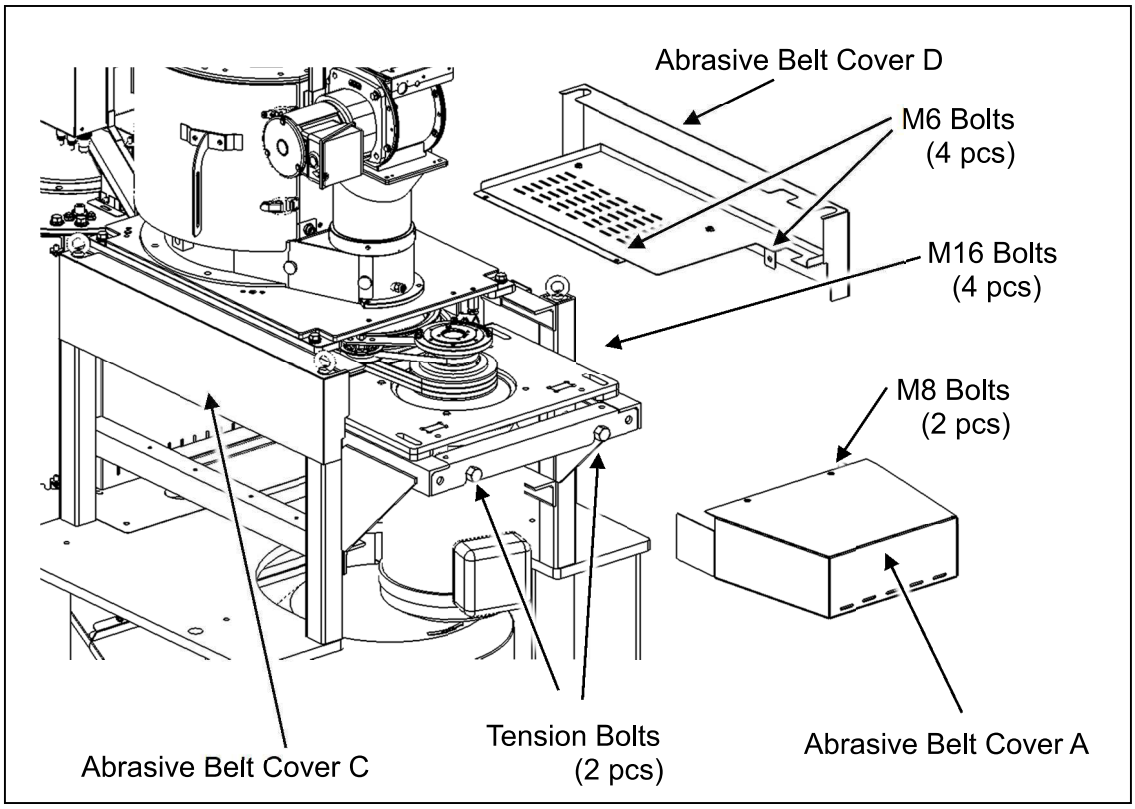
① Remove the Belt Cover D, E and check whether V-Belt is loosen or has damage.
● For taking out Belt Cover D, E, remove the Bolt M6 (4 pcs).

② If there is slack, use the accessory wrench to loosen Bolt M16 (4 pcs) on the tension bolts and tighten the Belt Tension Bolt to prevent slipping

③ Tighten Motor Fixing Bolt M16 (4 pcs) firmly.

④ Put back the Belt Cover D, E in the original position.

<Abrasive section>



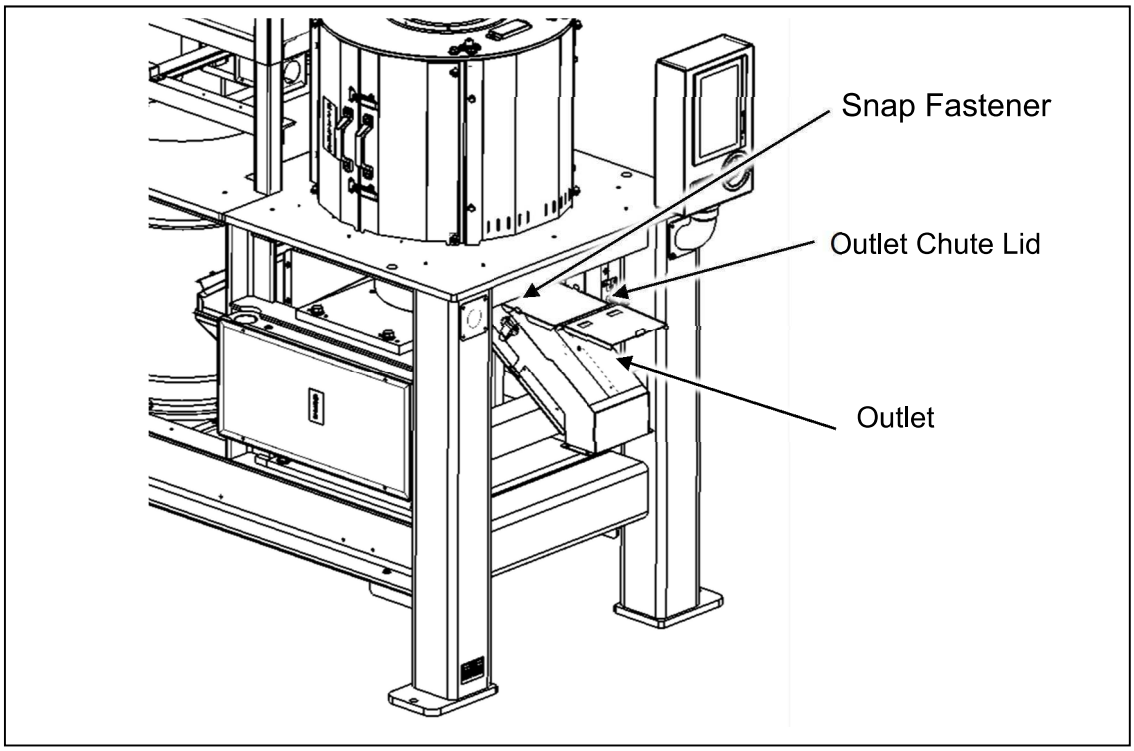
① Remove Abrasive Belt Cover A and C (or D) and turn the V-Belt while inspecting for slack or damage.
- To remove the Abrasive Belt Cover A, unfasten the M8 Bolts (2 pcs).
- To remove the Abrasive Belt Cover C and D, unfasten the M6 Bolts (6 pcs).

② If there is slack, use the accessory wrench to loosen M16 Bolts (4 pcs) , tighten the Tension Bolt while pushing the Belt by finger.

③ Tighten the Motor Fixing Bolts M16 (4 pcs) firmly.

④ Put back the Abrasive Belt Cover A, C (or D) in the original position.

5.3.2 Cleaning the Outlet



① Unfasten the Snap Fastener (2 pcs), and remove the Outlet Chute Lid and wipe away any bran inside the Outlet.

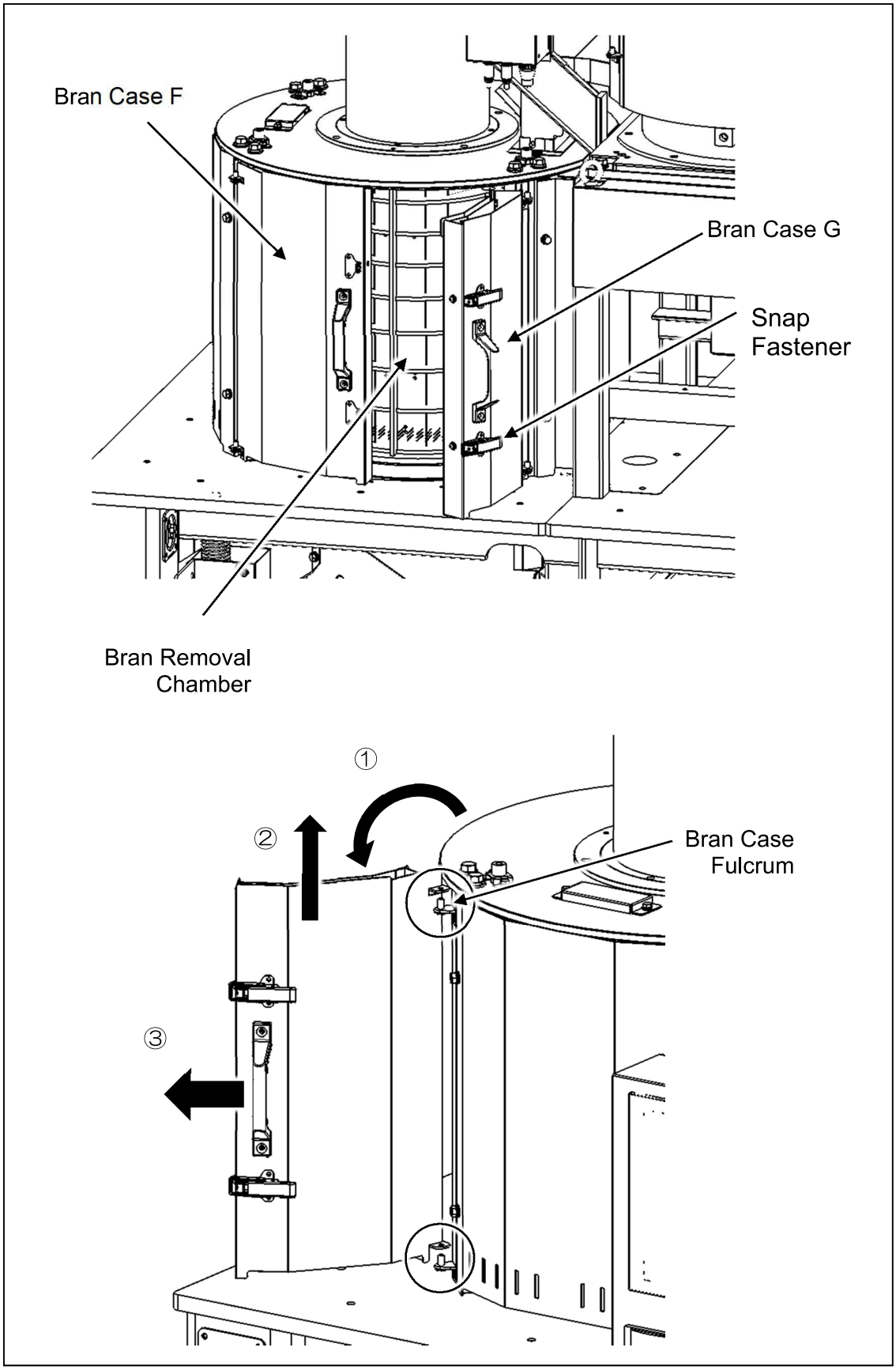
NOTE

- Do not use metal scrapers or brushes.
  Bran will stick easier to scratched surface.
- Outlet Chute is hot because of heater.
  When you clean, turn the main power off and conduct it after cooling it down.

② Reassemble the Outlet Chute Lid in the original position.

5.3.3 Cleaning the Bran Removal chamber

<Friction section>



① Unfasten the Snap Fastener (2 pcs), remove the Bran Removal Case F, G and wipe away any bran inside the Bran Cases.
Clean the opposite side case as well.

NOTE

- Do not use metal scrapers or brushes.
  Bran will stick easier to scratched surface.

② Using a blow gun or vacuum cleaner, clean any bran on the Bran Removal Chamber, the Screen Holder, and the Screen. (Refer to page 57)
- When using a blow gun, start the bran removal equipment (bag filter, etc.) at the set static pressure.

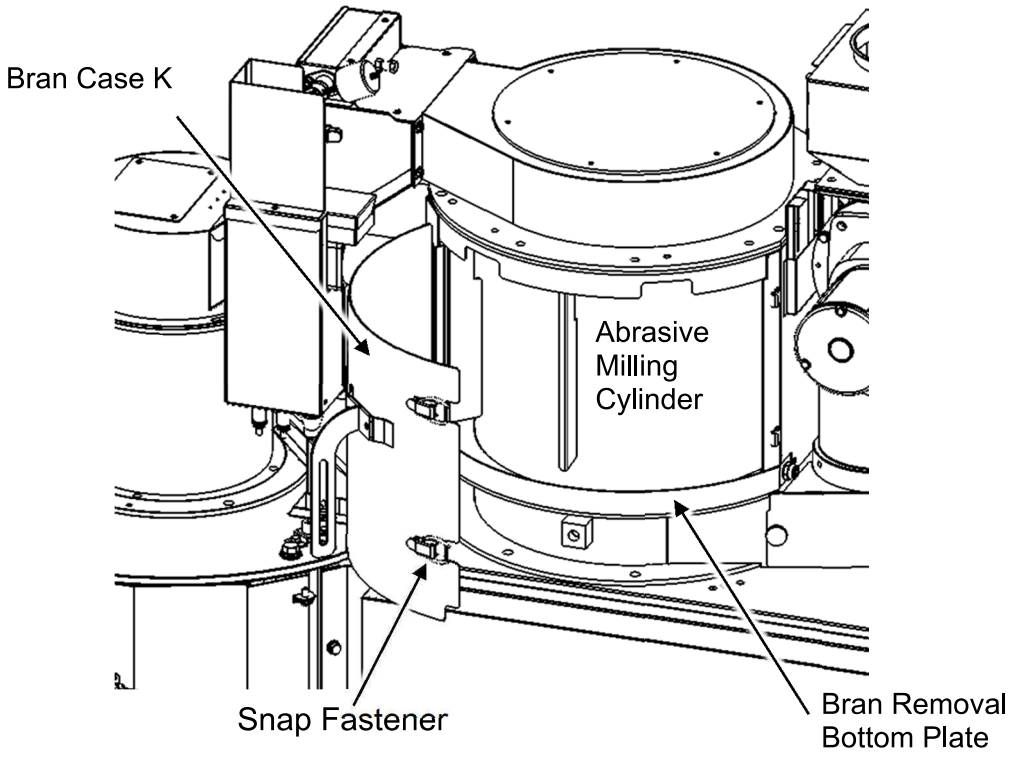
③ Reassemble Bran Case F, G in their original positions.

<How to remove the Bran Case>
Open the Bran Case F, G and lift them. Then the Bran Case can pull from the Bran Case Fulcrum.

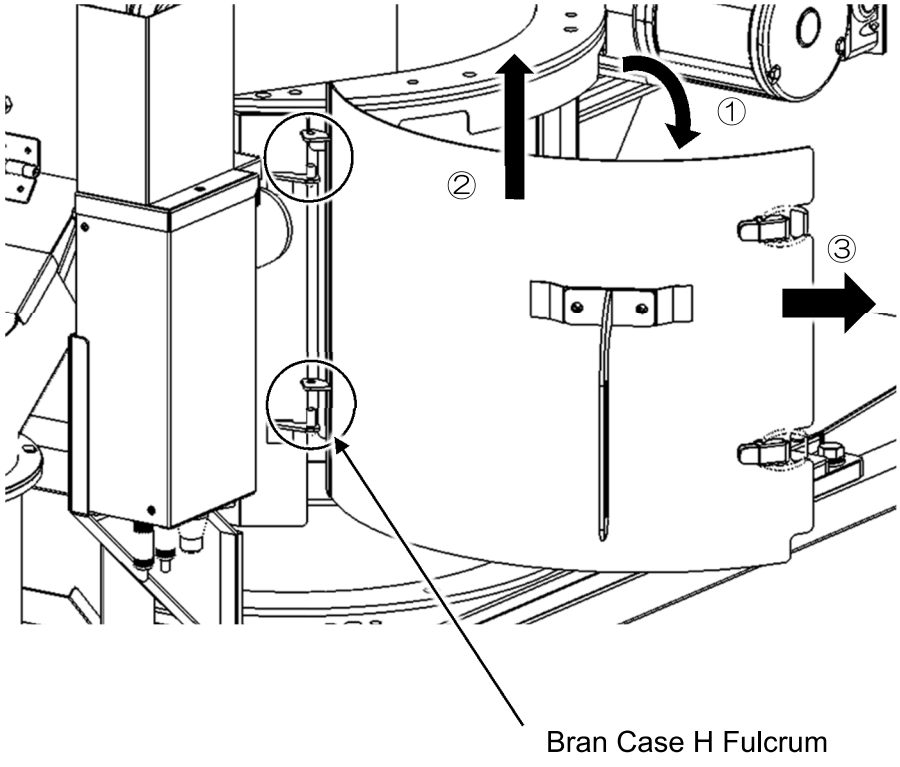
NOTE

- When you clean the Bran Removal Chamber while operating the Bran removal equipment, Bran Case may be closed because of suction air pressure.
  Take caution not to pinch your hand or fingers.

<Abrasive section>



<How to take out the Bran Case>



① Unfasten the Snap Fastener (2 pcs), remove the Bran Removal Case K, L and wipe away any bran inside the Bran Cases.
Clean the opposite side case as well.

NOTE

- Do not use metal scrapers or brushes.
  Bran will stick easier to scratched surface.

② Using a blow gun or vacuum cleaner, clean any bran on the Bran Removal Chamber, the Screen Holder, and the Screen. (Refer to page 57)
- When using a blow gun, start the bran removal equipment (bag filter, etc.) at the set static pressure.

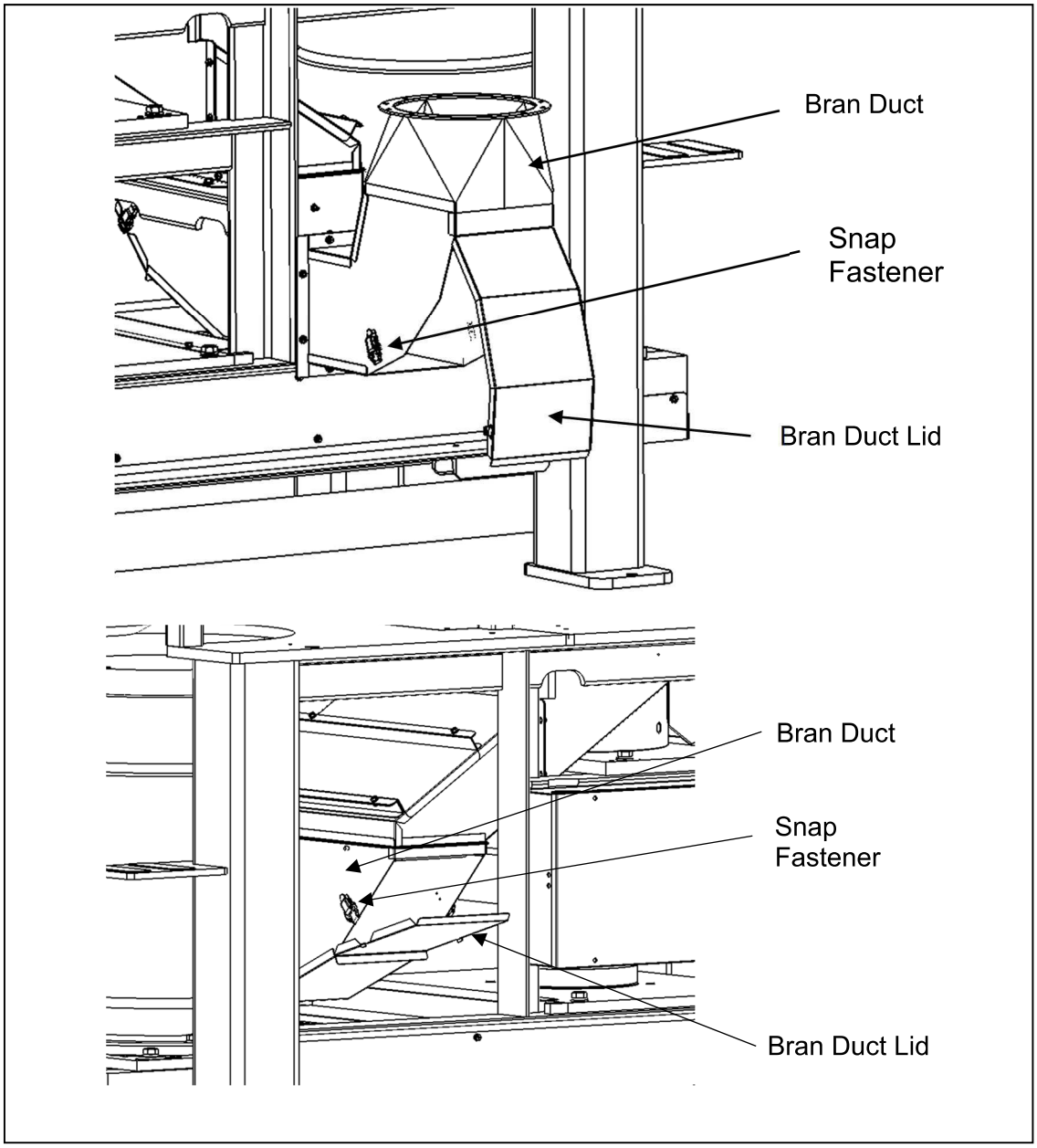
③ Reassemble Bran Case F, G in their original positions.

<How to remove the Bran Case>
Open the Bran Case K, L and lift them. Then the Bran Case can pull from the Bran Case Fulcrum.

NOTE

- When you clean the Bran Removal Chamber while operating the Bran removal equipment, Bran Case may be closed because of suction air pressure.
  Take caution not to pinch your hand or fingers.

5.3.4 Cleaning the Bran Duct



① Unfasten the Snap Fastener (2 pcs), remove the Bran Duct Lid and wipe away any bran inside Bran Duct Lid, Bran Duct.

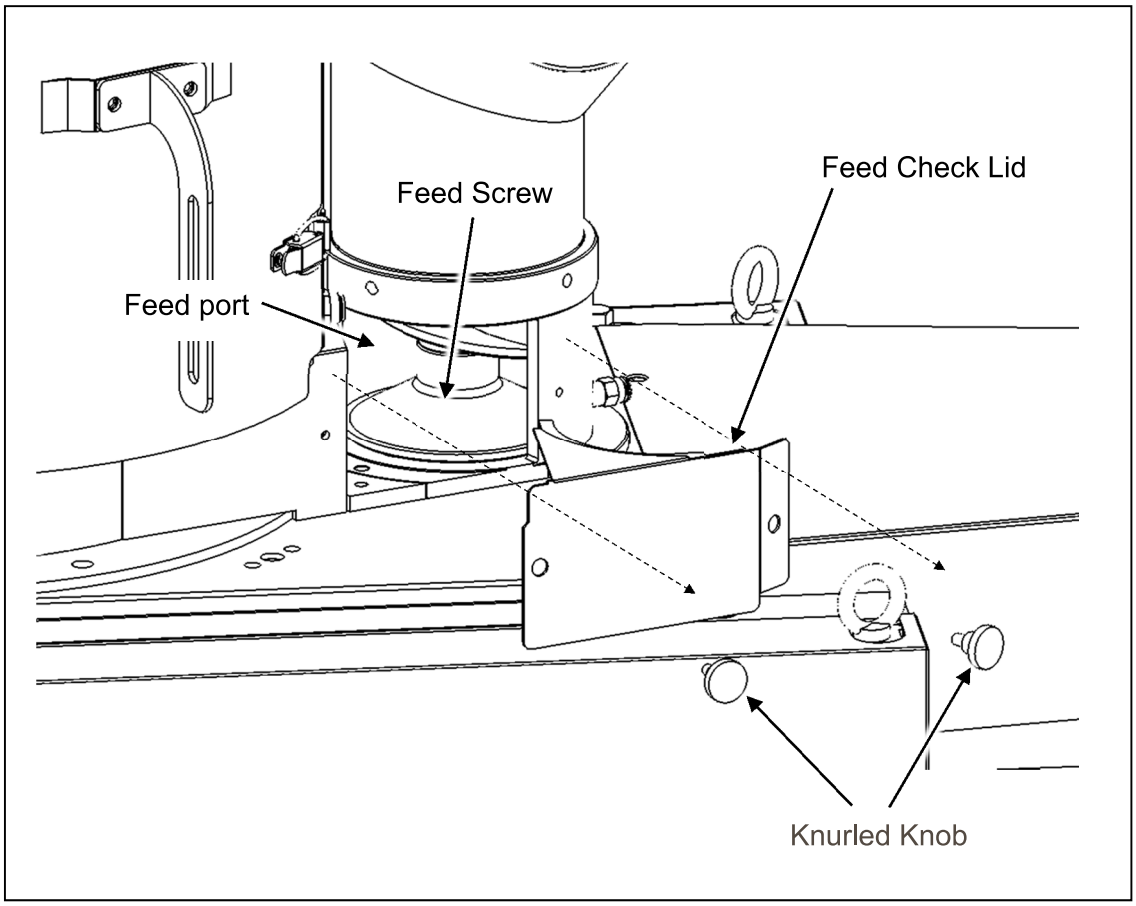
NOTE

- Do not use metal scrapers or brushes.
  Bran will stick easier to scratched surface.

② Using a blow gun or vacuum cleaner, clean any bran on the Bran Duct.

③ Reassemble Bran Duct Lid in that original position.

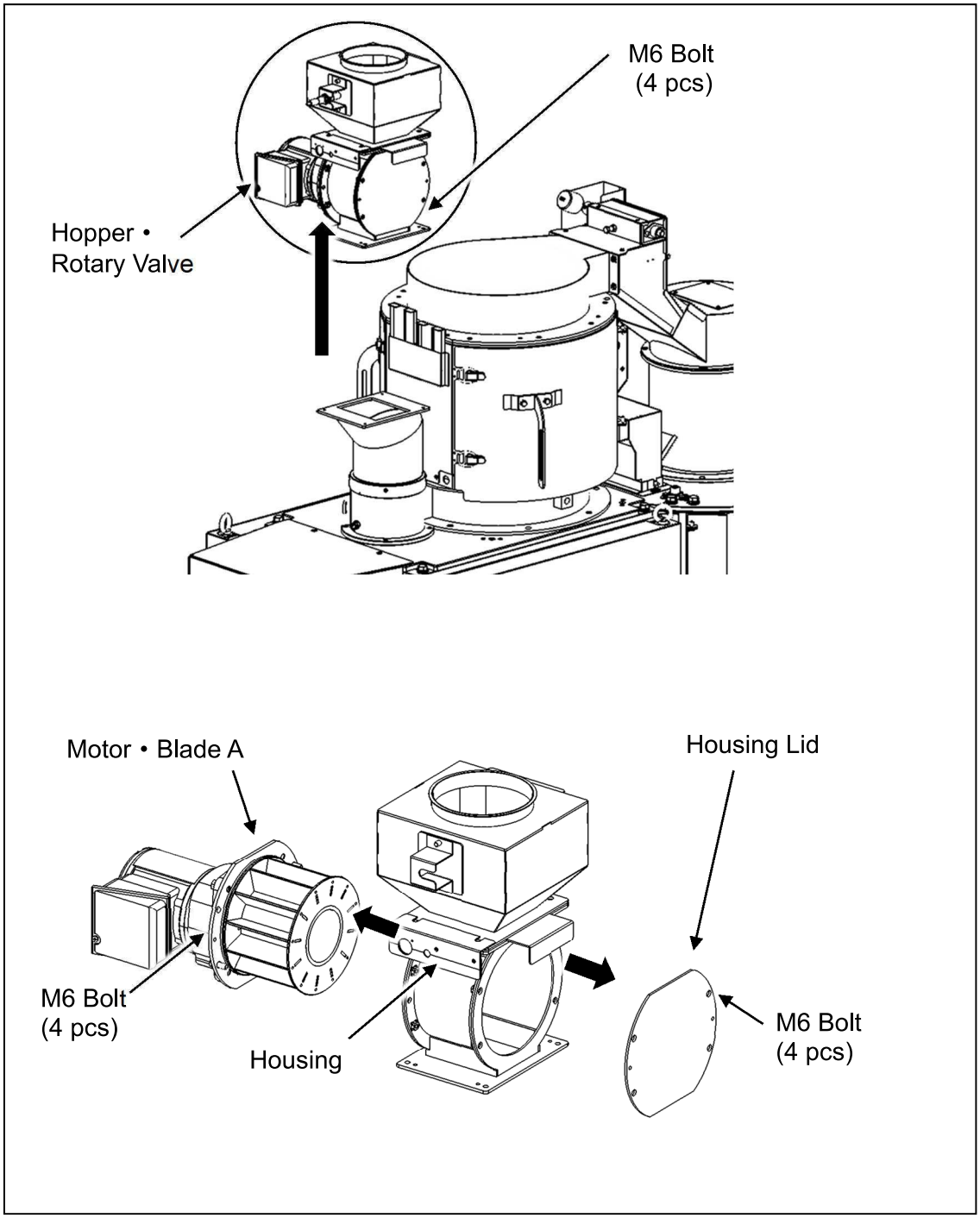
5.3.5 Cleaning around the Feed



① Loosen the Knurled Knob (2 pcs), remove the Feed Check Lid and then take out foreign matters (Bran ball etc.) inside Feed port and Feed Screw..

② Reassemble the Feed Check Lid in that original position.

5.3.6 Cleaning the Rotary Valve



① Take out the Hopper • Rotary Valve.
- You can take out the Rotary Valve with Bolt M6 (4 pcs).

② Take out the Housing Lid, Motor / Blade A and swipe out the bran inside Housing and Blade A.
- You can take out the Housing Lid with Bolt M6 (4 pcs).
- You can take out the Motor / Blade A with Bolt M6 (4 pcs).

NOTE

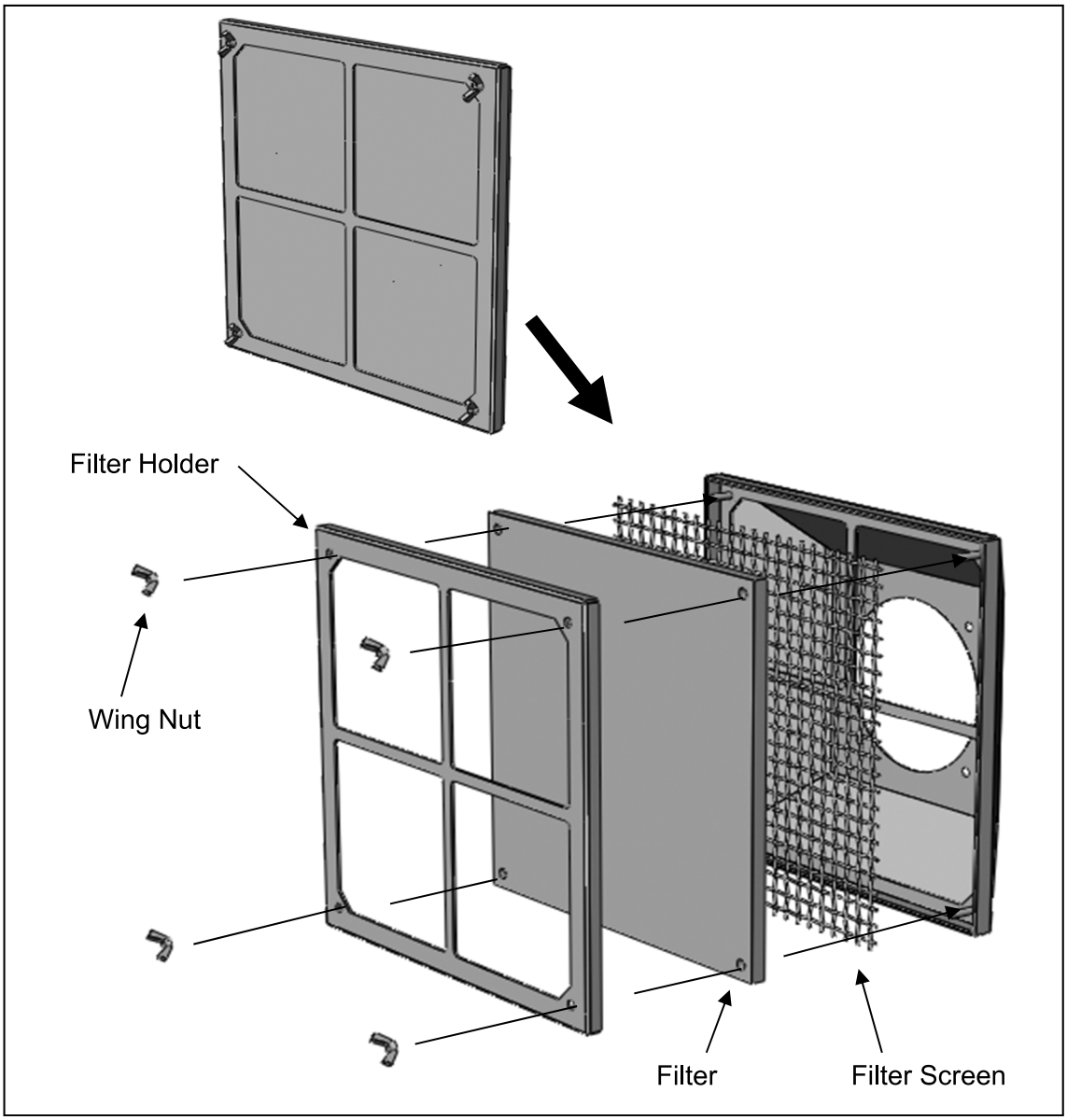
- Do not use metal scrapers or brushes.
  Bran will stick easier to scratched surface.

③ Using a blow gun or vacuum cleaner, clean any bran inside the Blade A.
- When using a blow gun, start the bran removal equipment (bag filter, etc.) at the set static pressure.

④ Reassemble the Rotary Valve's motor, Blade A, Housing and Housing Lid in these original positions.

⑤ Reassemble the Hopper, Rotary Valve in the original positions.

5.3.7 Cleaning the Blower Fan Filter



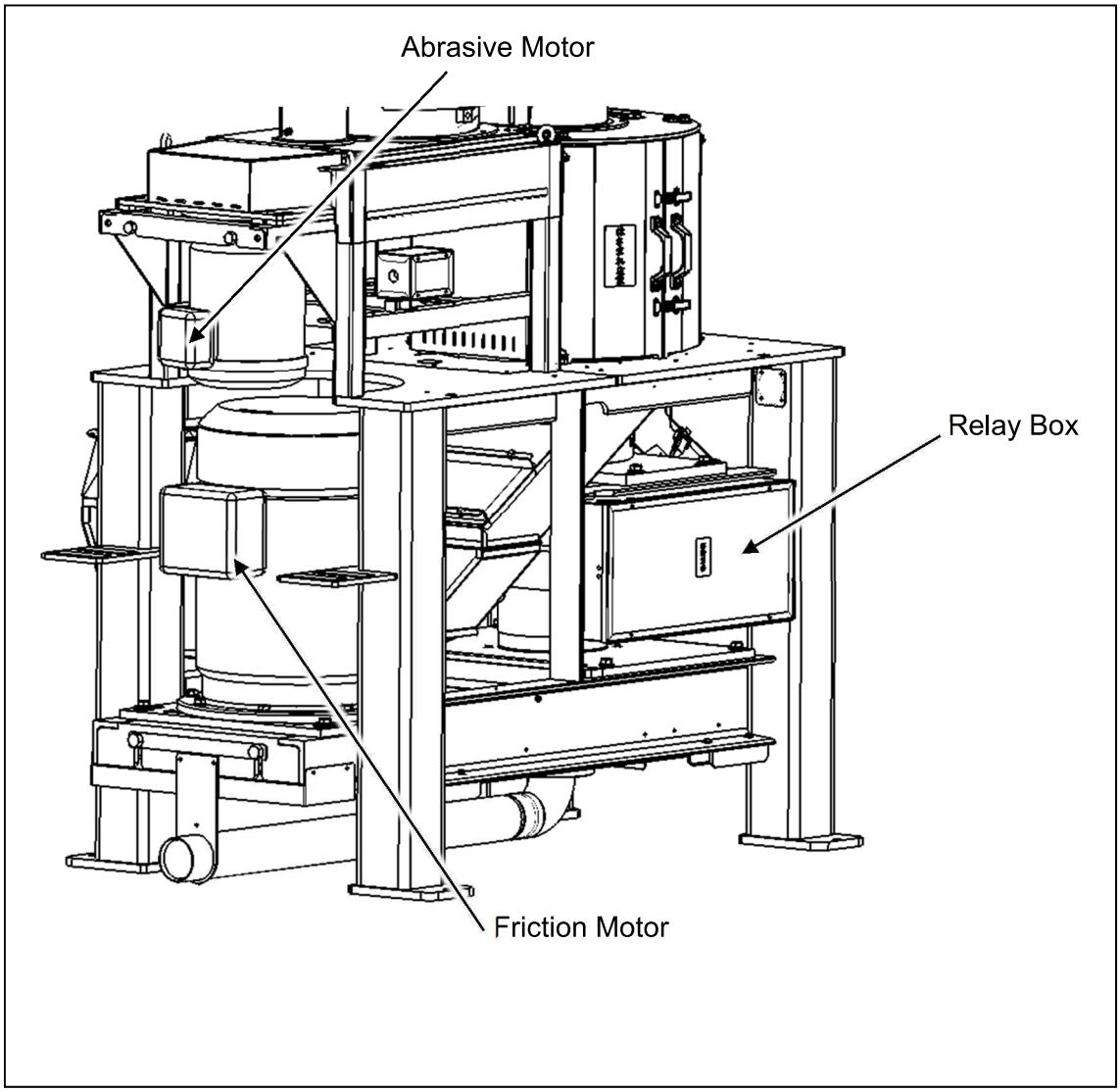
① Vacuum the dust on the filter with a vacuum cleaner. Alternatively, remove the wing nuts (4 pcs), remove the filter, and clean it with a blow gun.
●Replace it when it is damaged or when the dust cannot be removed.

NOTE

- Do not use a blow gun on the filter while the filter is attached to the blower fan.

② Reassemble the parts in their original position.

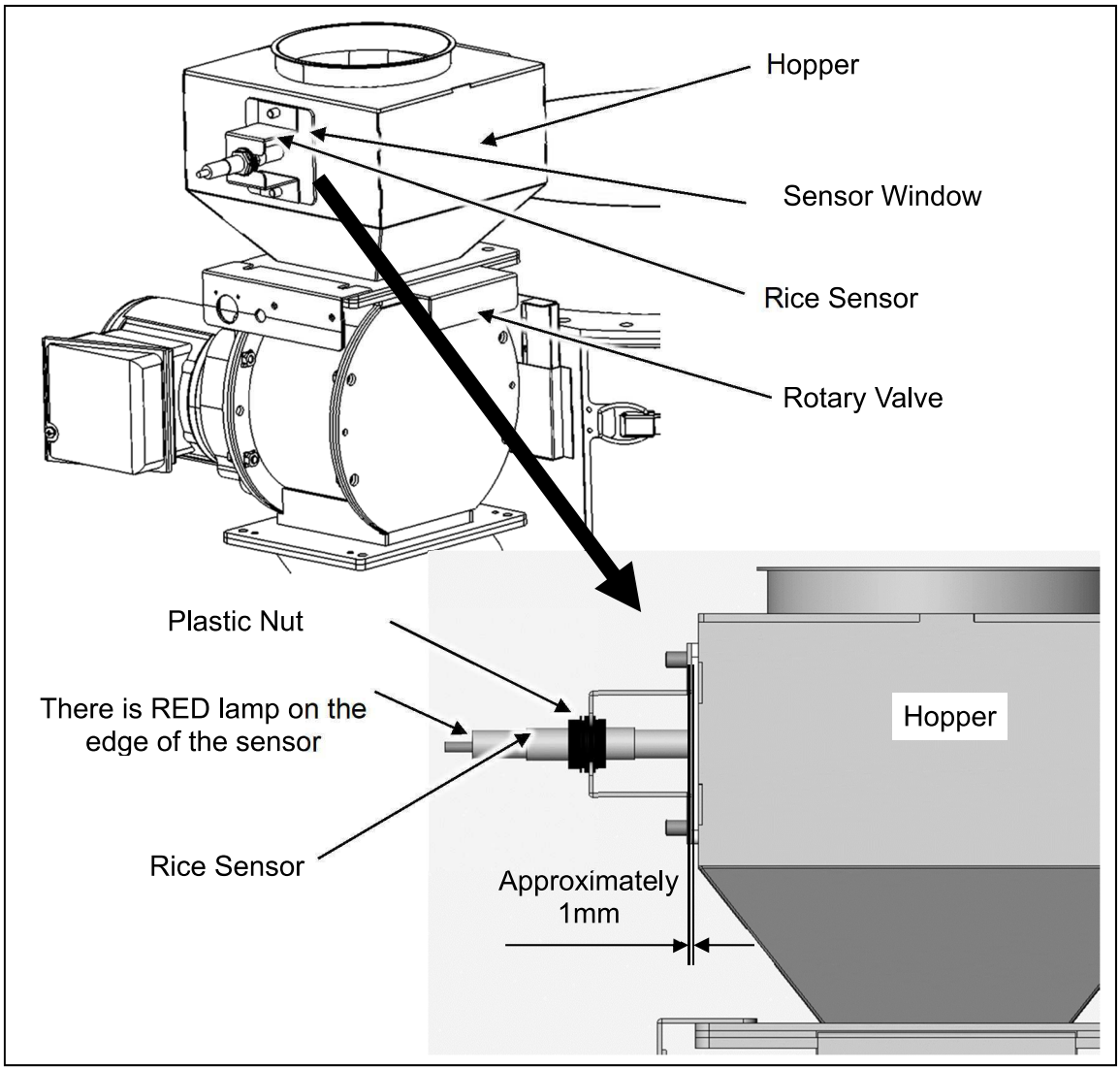
5.3.8 Check the damage of wiring and retighten the terminal block



① Open the Relay Box door and check the relay box for damaged wires, then tighten the terminal block.

② Check the damage in wires for both Friction and Abrasive motors.

5.3.9 Adjusting the Rice Sensor



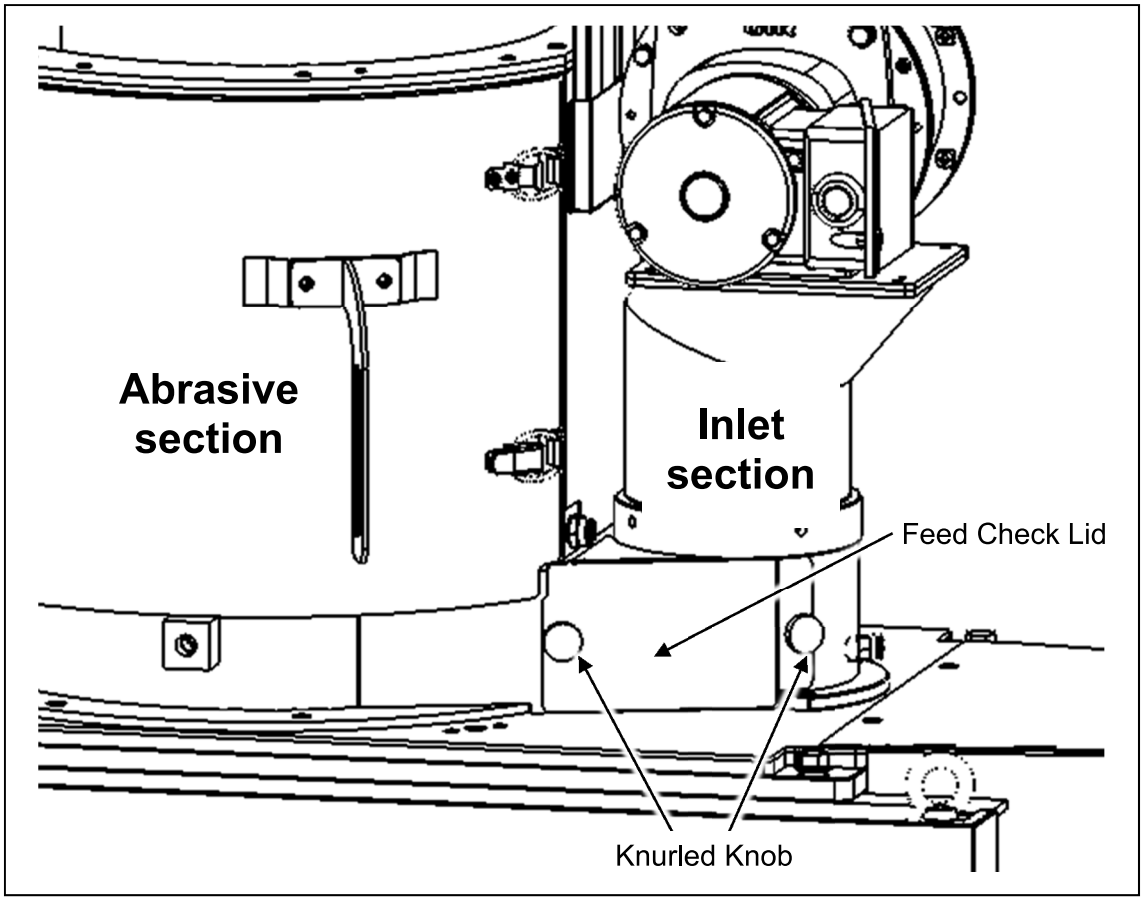
① Loosen the Plastic Nuts on the Rice Sensor and set the sensor approx. 1 mm with the sensor window.

- Check whether the Rice light in the <Rice Milling operations> screen indicates that materials are present in accordance with the presence or absence of raw materials.

- Check whether the RED lamp on the Rice Sensor lights or goes out depending on the presence and absence of material.

- Increasing the distance from the sensor window will impede detection.

5.3.10 When rice is stuck in the Abrasive section



① Check whether the Rotary Valve stops.
If it's in operational, press the Flow Amount [STOP] switch and stop it.

② Press the [▼] (decrease) on Abrasive Resistance and set it Min (Lower Limit).

③ Turn the machine off.

④ Reset the thermal relay (THR3) on the power panel.
Refer to the P.65 5.3.12「Reset the thermal relay」.

⑤ Open the Feed Check Lid and take out the residue rice on the Inlet section, Abrasive section.
Loose the Knurled Knob (2 pcs) and remove the Feed Check Lid.

After taking out the rice, reassemble the parts to the original position.

⑥ Remove the Abrasive Belt Cover A and turn the V Pulley by hand, take out the residue rice through Feed Check Lid.

⑦ Turn the power ON, and start the motor.

5.3.11 When rice is stuck in the Friction section

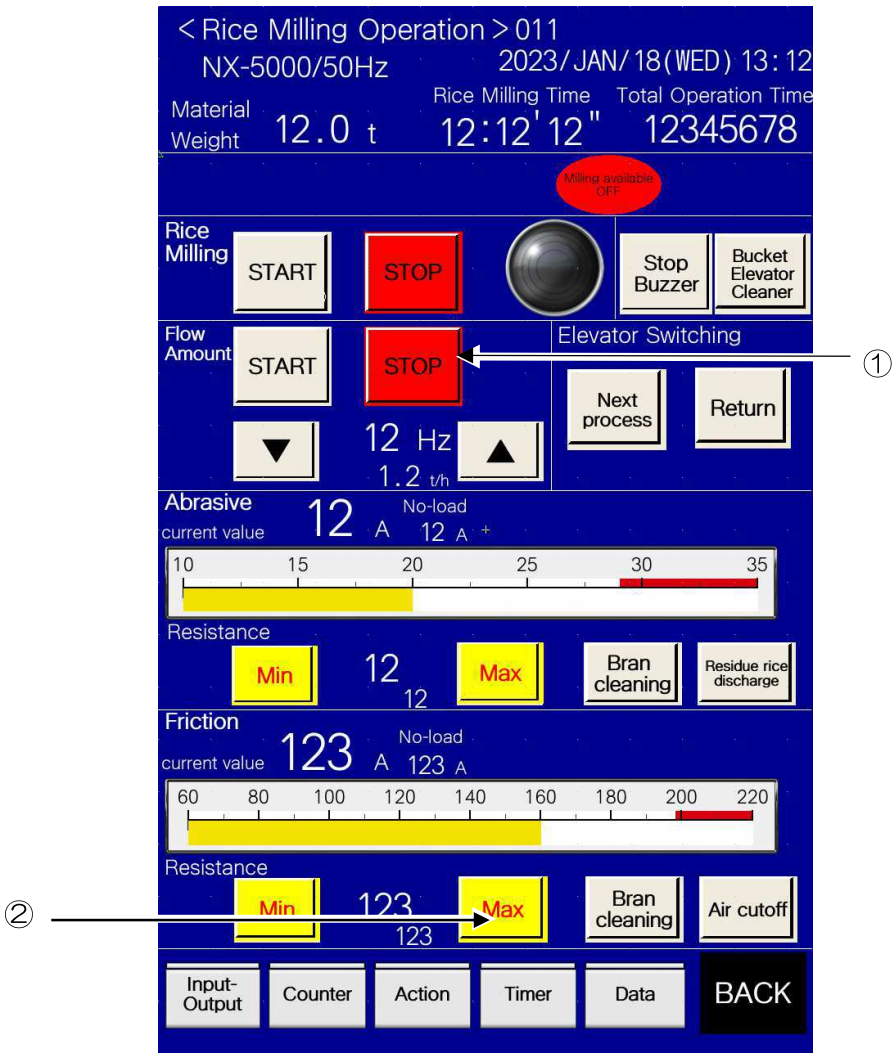
① Check whether the Rotary Valve is stopped.
If it's in operation, press the Flow Amount STOP switch and stop it.

② Press Friction Resistance ▼(decrease) switch and set Friction Resistance to Min (lower limit).
- Rice is discharged from the Friction section.

NOTE

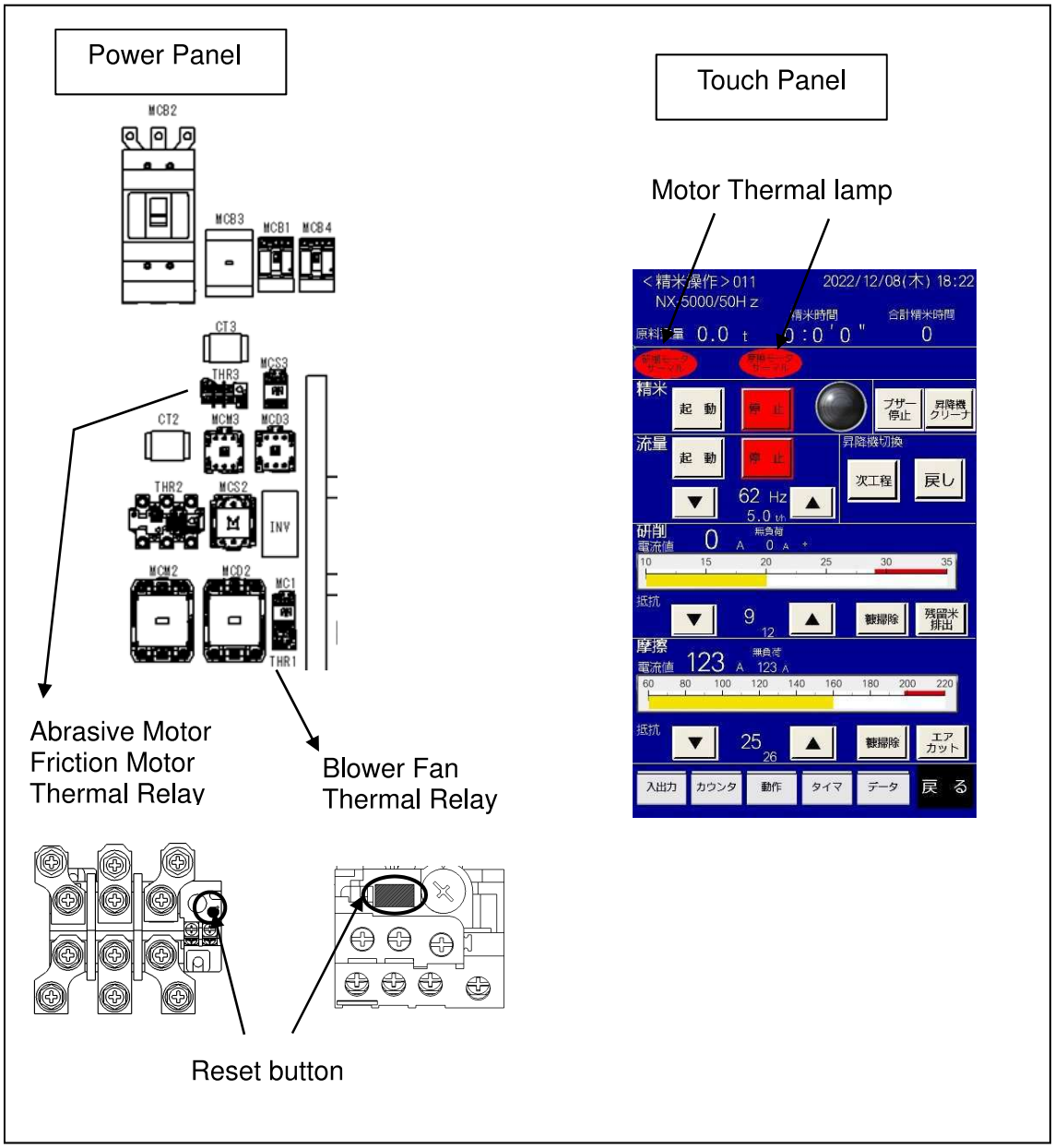
- If the rice is not discharged, turn the power off and turn the V-belt of the Friction Motor to discharge the rice.
  If the rice is still not discharged, remove the screen.
  (See “5.3.1 Tension adjustment for motor V-belt” on page 49.)

③ Reset thermal relay (THR2) on the standard power panel.
(Refer to 5.3.10「Thermal relay reset」on page 63.)



5.3.12 Thermal relay reset

- After removing the stuck rice, reset the thermal relay.
- Thermal Relay is inside Power Panel.



① Turn the power off and press reset button THR1 when the blower fan motor has thermally tripped and press reset button THR3 when the dry polishing motor has thermally tripped.
- When push reset button, each Motor thermal light on the touch panel will turn off.