

EGM bleeding

Replacing the Cartridge (700 mℓ) of EGM Pump

1.



- ① Turn the cover counterclockwise and remove it from the pump with the hand.
- ② Turn the empty cartridge counterclockwise and remove it.

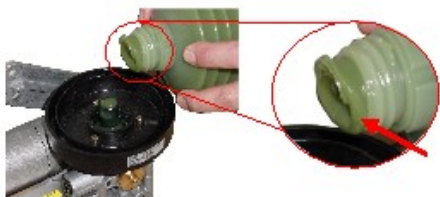
- Do not leave the pump without the cartridge for long periods of time. Foreign matter and air might enter the exposed hole for cartridge.



- Do not use types of grease other than the specified grease. Other types of grease may cause problems in the greasing system.

- Do not replenish the empty cartridge after use. Replenishment may cause problems in the greasing

2.



Compress the cartridge slightly to let a small portion of grease come out about 1 cm (important) to minimize entry of air into the pump.

3.



Turn the cartridge upside down over the cartridge fixing hole and place the cartridge on it in such a way that the protruding portion of grease comes into the hole, and turn the cartridge clockwise and tighten it.

- Take this step, watching out for foreign matter that might enter the cartridge hole to cause problems in the greasing system.

4.



Turn the cover clockwise with the hand until it does not turn any more. Carry out a Manual Greasing operation on the molding machine to check that the pressure correctly rises and that no failure occurs.

- If the pressure does not rise ("failure of greasing"), carry out bleeding

- Storage of Cartridge Grease

Store cartridge grease in an area kept at 0 to 25°C protected from direct sunlight, rainwater and dust.

Flushing outlet check mechanisms (pump, type EGM)

Bleeding and flushing of outlet check mechanism

- This operation can be carried out if “bleeding with bleeding plug” has not eliminated the failure and/or
- if residual air or foreign matter in the grease discharge mechanism is regarded as the cause of a discharge failure.

<Failure events>

- An bleeding operation with the bleeding plug does not eliminate the failure conditions.
- Grease comes out of the pump but the pressure does not rise.

<Measures to be taken> (see Photos A, B, C and D)

① Photo A/B: Turn counterclockwise the plug on the outlet check mechanism with 25 mm wrench to remove it

② Photo C: Do not lose the spring on the bottom end of the plug. If the spring remains on the pump, move it to the bottom end of the plug.

④ Photo D: Cover the hole of the pump-side check mechanism with a finger and activate the pump in the Manual Greasing mode. Be sure to cover the hole (The check ball is inside!) with a finger before activating the pump in the manual mode. (Any small foreign matter on the ball will be eliminated during this operation.)

⑥ When grease containing no air starts to come out, the corrective operation is complete.

⑤ Check that the check ball is located on the pump side, and then tighten the plug with a spring on the pump clockwise the initial state.

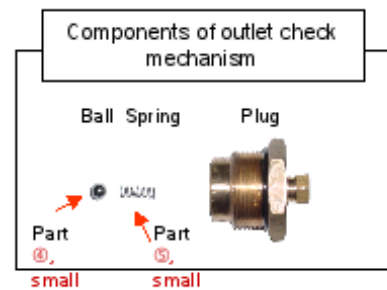


A large amount of grease is discharged. Prepare of waste cloth for wiping clean the surrounding components. Handle small inner parts carefully in order not to lose them.

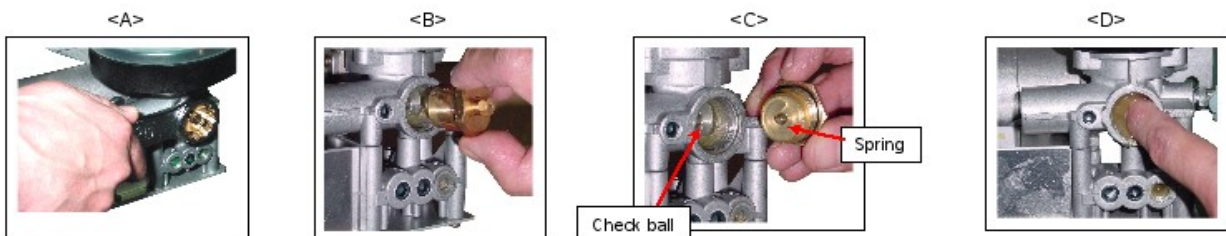
In step ③, be sure to cover the hole of the check mechanism with a finger before operating the pump in order not to lose the ball inside.

ATTENTION

To carry out this operation, the outlet mechanism must be disassembled. This may cause failure in the operation of the pump. Consult Lube Corporation before starting this operation.



The figures in circle are tool numbers used in the List of Maintenance Tools.



Bleeding

● Operation to be carried out if air might have entered the pump through the inlet hole and caused a failure of discharge

Pump, type EGM

<Failure events>

- The discharge pressure does not rise.
- No grease is discharged from the pump.

Pump, type GM

<Measures to be taken> (see Figs. 1 and 2)

- ① Activate the pump in the Manual Greasing mode.
- ② Turn the bleeding plug counterclockwise one turn with an 8 mm wrench to loosen it.
- ③ Check that air and grease comes out from the hole of the plug end.
- ④ When grease containing no air starts to come out, stop the pump.
- ⑤ Tighten the bleeding plug clockwise with a wrench.
- ⑥ Activate the pump again to check that grease does not leak from the air-bleeding plug (correct recovery of the normal state of the system).

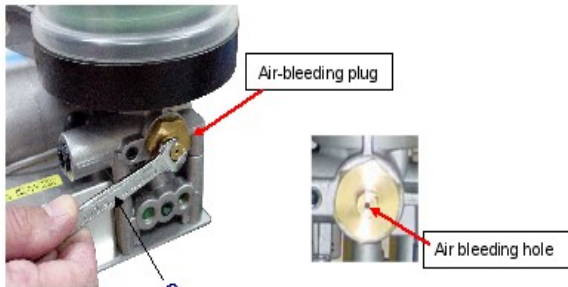


Air bleeding valve



- ① Place some pieces of waste cloth under the discharge hole for receiving discharged grease.
- ② Activate the pump while pressing the bleeding button switch.
- ③ Any portions of air are discharged with grease if air is entered.

When grease containing no air starts to come out, release the bleeding button switch to stop the pump (bleeding completed).



<Fig. 1>

<Fig. 2>



In some cases, air and grease springs out of the plug hole. Be sure to wear protective goggles during the operation.