



<b>FÖRSTER TECHNIK®</b>  <b>M19.1e</b>	<b>Service info</b>	Powder hopper	
	<b>Re:</b>	Vario and Compact	
	<b>Date</b>	October 2016	
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## Replacing the powder hopper

### 1 Introduction

These installation instructions put you in the position to replace the powder hopper safely as intended.

- > Please read these installation instructions carefully before replace the powder hopper.
- > Keep these installation instructions ready and available at all times.
- > Comply with all safety instructions in these installation instructions at all times.
- > Please also observe the original operating manual for the automatic feeder.




### 2 For your safety

#### 2.1 Target group

##### 2.1.1 Necessary qualifications of the service technician

Only trained service technicians are authorized to replace the powder hopper.




Service technicians are electricians with appropriate qualifications, i.e. they are able to assess the work assigned to them and detect potential risks on the basis of their technical training as well as their knowledge of the relevant standards. This also includes knowledge of relevant accident prevention

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regulations, generally accepted safety regulations, EC guidelines and country-specific standards and provisions.


## 2.2 Indication of hazards



Hazards are indicated by a key word and a corresponding symbol, depending on the severity and probability:

	<b>Danger!</b> For an imminent danger, resulting in serious injuries or death.
	<b>Warning!</b> For a potentially dangerous situation which may cause serious injuries or even death.
	<b>Caution!</b> For a potentially dangerous situation which may cause minor injuries or material damage.
<b>Attention</b>	For a potentially harmful situation in which the product or an item can become damaged within its environment.
<b>Note</b>	For application notes and other useful information.

However, it is just as important to comply with any other notes and information which are not highlighted, so as to avoid failures which in turn may cause direct or indirect injuries or material damage.

## 3 Replacement

 **WARNING** There is a risk of injury due to automatic start-up.  
Do not reach into the hazardous area of the powder mixing

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unit. The powder mixing unit can start up automatically at any time, crushing or cutting off your fingers. Turn off the automatic feeder and disconnect the power plug before reaching into the powder container.

1. Turn off the automatic feeder and disconnect the power plug.
2. Remove the screws that hold the safety grid and remove it.
3. Empty the powder container.
4. Loosen the two screws with which the hopper bracket is fastened to the chassis of the automatic feeder. The screws are located at the left and right of the powder discharge.



1 screws

5. If necessary, loosen the screws with which the ground wire is fastened to the top section of the powder hopper.
6. **With Vario:** Carefully remove the powder hopper from the chassis of the automatic feeder and pull the female connector of the gear motor.

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**With Compact:** Pull the cable lugs of the gear motor.



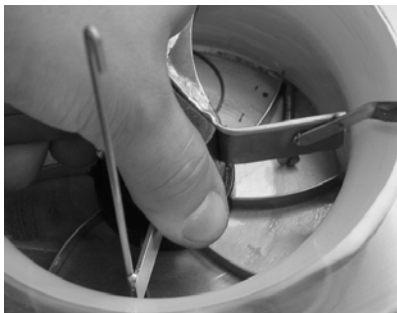
- Remove the dosing plate. To do so, loosen the star nut that is located at the left of the powder discharge.



- Unscrew the raised countersunk head screw with which the dosing star is fastened to the motor shaft. To do so, manu-

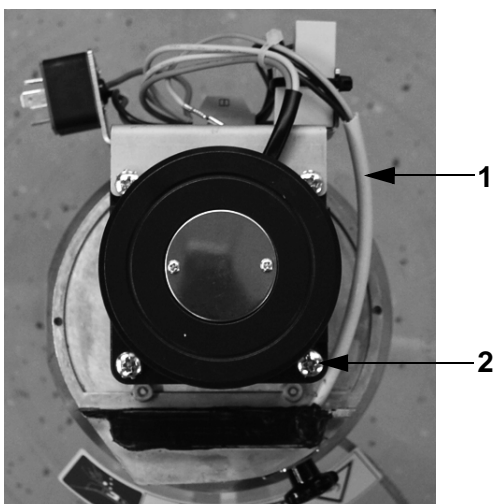
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ally turn the dosing star until you are able to loosen the screw through the powder discharge.

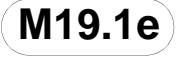



9. Remove the dosing star from the motor shaft.
10. Pull the cable of the vapour screen (see picture below).
11. Loosen the screws connecting the powder hopper and the gear motor.

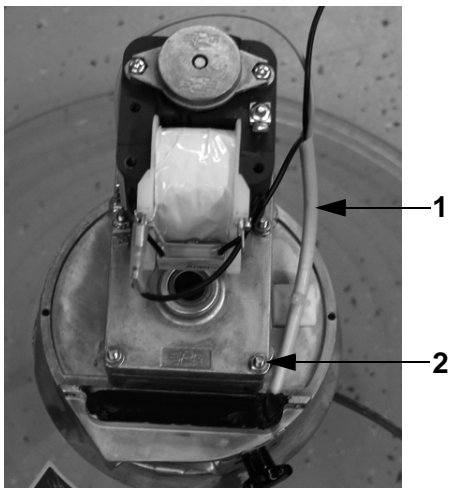
**With Vario:**



- 1 Cable vapour screen
- 2 Screws 4x

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**With Compact:**






- 1 Cable vapour screen
- 2 Screws 4x



12. Fasten the new powder hopper to the hopper bracket.

13. Screw on the gear motor and fasten the cable of the vapour screen.

14. Slip the dosing star on the motor shaft and carefully tap on the dosing star until it seats solidly on the hopper ground.



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- 15.Center the dosing star so that the hexagon bolt can be accurately reinserted.To do so, use a pointed punch.
- 16.Fasten the dosing star to the motor shaft.
- 17.Secure the dosing plate. Retighten the star nut located to the left of the powder discharge.
- 18.Connect the gear motor and fasten the hopper bracket to the chassis of the automatic feeder.
- 19.If necessary, fasten the ground wire to the hopper.
- 20.Reinstall the safety grid. Retighten the screws.
- 21.Only add milk powder (MP) to the powder container.
- 22.Connect the power plug and turn on the automatic feeder again.
- 23.Enable milk powder dosing to fill the dosing star and the dosing unit.
  - 23.1 Go to  > **Diagnosis > motor** to go to the **Powder motor** submenu and press  to start the motor.
24. Calibrate the milk powder (MP). Observe the operating instructions of the automatic feeder.

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