

# FM Mattsson

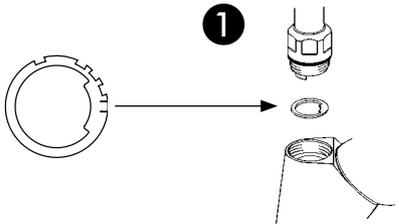
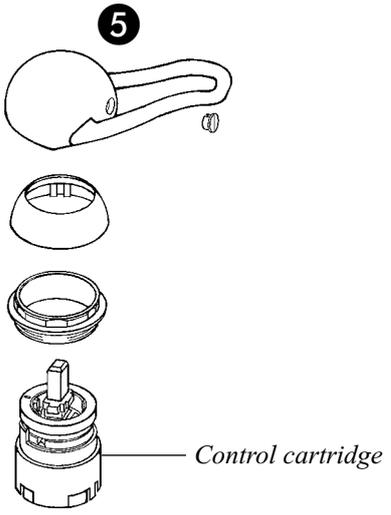
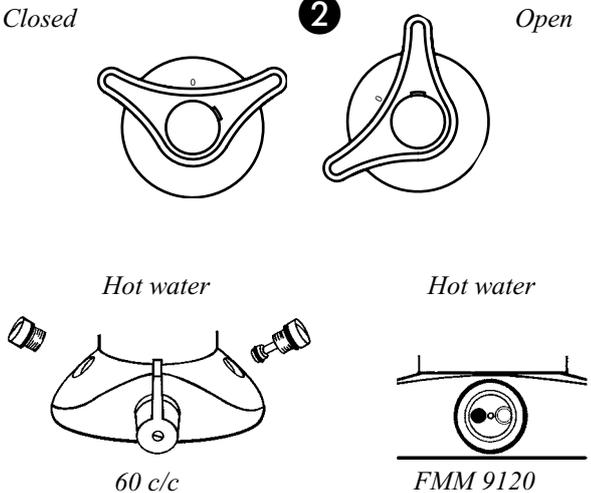
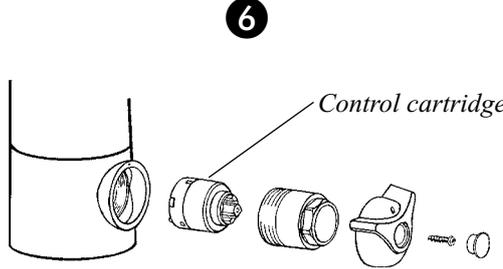
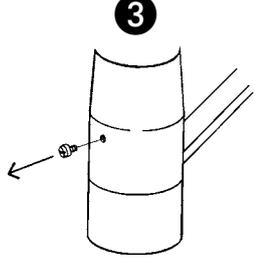
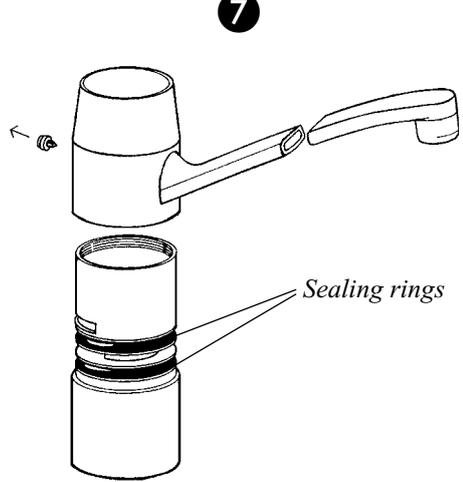
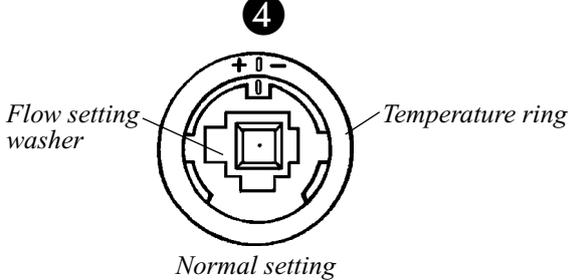
9000-series

  Kontroll		
	 NPS 116, 136, 155, 217, 218, 219, 248, 263	

## Single lever mixers

08830500

06.07

<p><b>1</b></p> 	<p><b>5</b></p>  <p>Control cartridge</p>
<p><i>Closed</i></p> <p><b>2</b></p> <p><i>Open</i></p>  <p>Hot water</p> <p>60 c/c</p> <p>Hot water</p> <p>FMM 9120</p>	<p><b>6</b></p>  <p>Control cartridge</p>
<p><b>3</b></p> 	<p><b>7</b></p>  <p>Sealing rings</p>
<p><b>4</b></p>  <p>Flow setting washer</p> <p>Temperature ring</p> <p>Normal setting</p>	

**Always close the main supply valve before maintenance (service).** (Except for when calibration of temperature or flow limits is performed).

## Function

The water flow is controlled by moving the lever vertically. The higher the lever is set, the more water flow is obtained. When the lever is depressed, the water is shut off.

The temperature is controlled by moving the lever laterally. When positioned at the extreme right, only cold water is obtained, and at the opposite extreme left, only hot water is delivered.

### Dishwasher shut off valve

The control is occurring as a knob or as a lever, see illustration 2.

Open position: Knob, wing upward. Lever upward.

Closed position: Knob marking "0" upward. Lever sideways.

## Installation

### Inlet tubes

Some models have threaded inlet tubes connected to the mixer body. They are tightened and will not come loose by normal handling when connecting the mixer to the water supply. Even if they are unthreaded, up to one turn, the o-ring will seal properly.

### Installation instruction for Great Britain

If mixers are connected to unbalanced systems, a check-valve should be attached to the cold water inlet, which is at high pressure.

For mixers with hand showers, double check-valves should be installed at the both inlets, cold and hot water.

### Supporting bushes

When connecting the inlet tubes to the water supply, supporting bushes must be used in the connected end of the tubes.

### Mixer attachment

Most of the models are attached by a stud screw, where the fixing nut is turnable to match different plate dimensions. Mixers with this attachment system must have an o-ring on the under side of the body base to seal against the plate/china ware. Ensure that it is positioned in its slot before tightening. This does not apply, if the mixer is equipped with a plug-chain bracket. The enclosed supporting plate is to be used when installing single handle mixer on the sink. The supporting plate is placed nearest under the sink with the flat side against the sink sheet. Then fasten the mixer with the nut and the bracket towards the flange of the supporting plate.

### Models with dish-washer connection

If the dishwasher/washing machine is not connected, the enclosed cap **must** be attached to the outlet tube. Some models have two connections, for either above or below desk dishwashers. On these mixers the one connection not used **must** be plugged with the enclosed cap.

❶ The swivel limitation washer to 110° must be installed. It is positioned with the limiting lug forwards and with the bent lug downwards.

❷ The mixer is preset to supply cold water. Resetting the single hole mixer from cw to hw. Remove the knob, see illustration 6, and turn the spindle clockwise to stop.

Reassemble the knob, at closed position. Resetting the single hole mixer from hw to cw. Remove the knob, see illustration 6, and turn the spindle counter-clockwise to stop. Reassemble the knob, at open position.

Resetting the 60 c/c mixers: Shut off the main supply and inter-change the external plugs. Resetting the 160 c/c-mixers: Move the plug to the other hole in the extra outlet port. (The plug in the right hole provides hot water to the dishwasher outlet).

### ❸ Unrestricted swivel spout

Dismount the screw.

### ❹ Flow and temperature limitation

Dismount the lever and the cover sleeve (see illustration 5). Four different flows can be set with the square washer. Pull it off, and turn desired lug backwards against the stop notch. The larger lug, the less flow is accessible. The different flows are 100% and appr. 85%, 60% and 50%. The temperature limitation is obtained by regearing the cogs of the temperature ring. The more it is turned clockwise, (towards "2") the less hot water is accessible.

### ❺ Replacing the control cartridge

To dismount the lever, pull out the red/blue button carefully and untighten the hex socket screw (2,5 mm) appr. one turn. The socket head screw is located high up under the lever dome. Take off the cover bush and untighten the large nut which holds the cartridge. Use the key FMM 6086. Remove the old cartridge, and if it is stuck, bend with two screwdrivers. Clean the body. Following replacement of cartridge, flush and clean the aerator.

### ❻ Replacement of the dishwasher cartridge

See also 2.

### ❼ Replacement of spout seal rings

### Lubrication

Use only **silicone grease** for lubrication.

### Freezing damage risk

Dismount the control cartridge and store in heated areas. If the mixer is equipped with check valves (Bath tub and flushing mixers) dismount the entire mixer.

### Cleaning

The mixers are best preserved by regular cleaning with a soft cloth and a soap solution, followed by rinsing with clean water and polished with a soft dry cloth. Never use lime dissolvents, acidified or abrasive detergents. No aluminium chloride, hydrochloric acid or phosphoric acid on chrome. For removal of lime spots use vinegar before rinsing with water. The epoxy coated mixers are not to be exposed to acetone or caustic solution.

### Cleaning the aerator

Unscrew the aerator every now and then and clean the insert from impurities. If the insert has lime deposits, wash in vinegar solution.

### Technical data

Max hot water temperature 80°C. Water supply pressure 50-1000 kPa. Max test pressure 1600 kPa.

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