



Operating and Assembly Manual

On-board Chemical Dosing System (7678.70/.80) for Hakomatic B1050

Introduction

Preface

The installation described in this operating and assembly manual may only be carried out at a Hako Service Center or an authorized Hako service center. The technicians required to complete the work are only available in such service centers.

This operating and assembly manual may only be used in conjunction with the machine's operating manual.

Safety information

Please observe the general safety regulations relevant for the machine provided in the corresponding operating manual.

Switch the machine off and disconnect the battery plug before beginning assembly work.

We would like to emphasize that no legal claims can be asserted in respect of any information provided in this manual. Please pay attention that only original spare parts are used for any necessary maintenance and repair work. Only original spare parts can guarantee long, reliable equipment operation. We reserve the right to make technical improvements.

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1 On-board Chemical Dosage

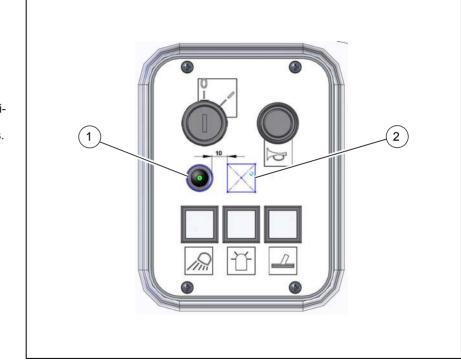
1.1 Conversion kit

The conversion kit is comprised of the following parts:

- Hose pump with holder
- · Canister with holder
- · Switch
- Flow meter including contacts, protective cap, hoses and connector body
- · Dosing hose
- Non-return valve
- Fuse
- Relays
- · Cable set, standard parts, labels
- · Assembly manual

1.2 Mounting the switch

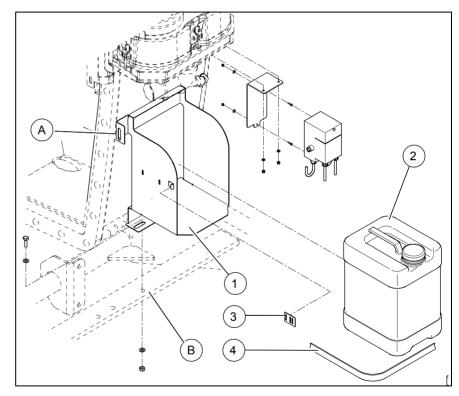
- 1. Switch the machine off and disconnect the battery plug.
- 2. Drill a 14 mm diameter hole in the control panel in order to mount the on-board chemical dosing switch (Fig. 1/1). Refer to Figure 1 for the position.
- 3. Clean the surface and fix the chemical dosage label (Fig. 1/2).
- 4. Fix the cable harness with cable ties. Refer to the circuit diagram for the electrical connection.





1.3 Assembling the canister holder

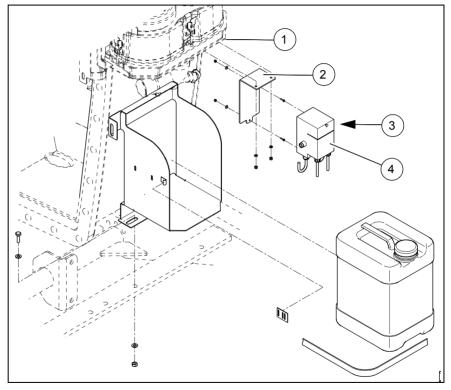
- 1. Mount the holder (Fig. 2/1) of the canister (Fig. 2/2) on the hopper position (A) using the existing bolts from the hopper.
- 2. Mount the holder (Fig. 2/1) on the frame position (B) using hexagon bolts, nuts and washers.
- 3. Mount the cable clip (Fig. 2/3) on the tensioning strap (Fig. 2/4).
- 4. Insert the canister (Fig. 2/2) and fixin place with the tensioning strap (Fig. 2/4).





1.4 Assembling the dosing pump

- 1. Assemble the dosing pump (Fig. 3/4) on the holder (Fig. 3/2), possibly premounted.
- 2. Mount the holder (Fig. 3/2) on the stay bolt of the holder (Fig. 3/1).
- 3. Clean the surface (Fig. 3/3) of the dosing pump and apply the quick emptying label.
- 4. Fix the cable harness with cable ties. Refer to the circuit diagram for the electrical connection.





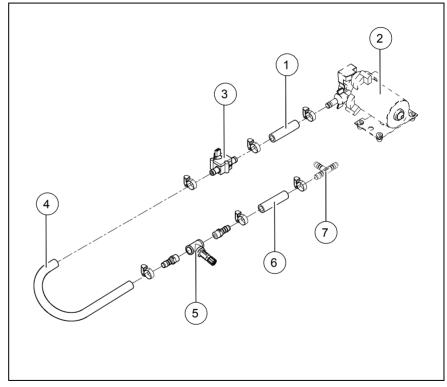
1.5 Assembling the flow meter unit

 Assemble the water hose, (Fig. 4/1) = 80 mm, between the water pump (Fig. 4/2) and flow meter (Fig. 4/3).

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Observe the flow direction on the flow meter!

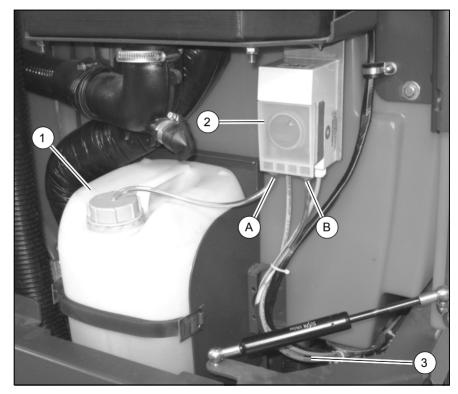
- 2. Fix the protective cap and connector on the flow meter using cable ties.
- 3. Assemble the water hose, (Fig. 4/4) = 240 mm, between the flow meter (Fig. 4/3) and non-return valve (Fig. 4/5).
- Assemble the non-return valve (Fig. 4/5) using screw-in sockets and hose clamps.
- 5. Assemble the water hose, (Fig. 4/6)
 = 80 mm, between the non-return valve (Fig. 4/5) and T-piece for the tool connection (Fig. 4/7).
- 6. Fix the cable harness with cable ties. Refer to the circuit diagram for the electrical connection.





1.6 Assembling the dosing hose

- 1. Drill a 6 mm diameter hole in the canister cap (Fig. 5/1) for the dosing hose.
- 2. Drill a 2 mm diameter hole in the cap for pressure compensation.
- 3. Shorten the dosing hose leading from the canister (Fig. 5/1) to the dosing pump (Fig. 5/2) (input=A) to 600 mm and fix with cable clips.
- 4. Cut the dosing hose leading from the dosing pump (Fig. 5/2) (output=B) to the non-return valve (Fig. 4/5) to 1720 mm.
- 5. Lay the hose together with the cabling (Fig. 5/3), below the der underlay of the hopper along the longitudinal support of the frame.





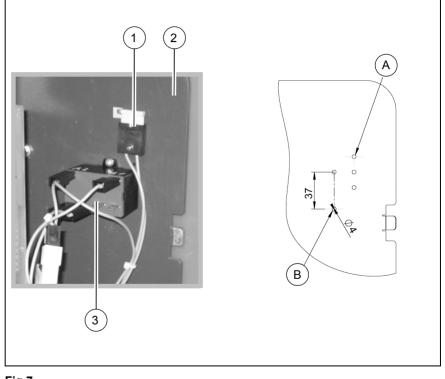
6. Lay the hose further, together with the cabling (Fig. 6/1), in front of the container and along the brake conduit to the center of vehicle and then behind the brake cable for the brush deck lift to the non-return valve. Fix in place with cable ties. Refer to the circuit diagram for the electrical connection.



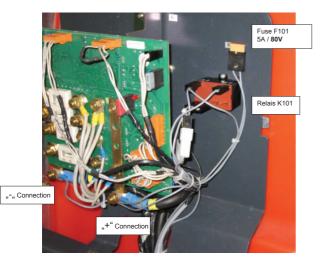


1.7 Installing the fuse and relay

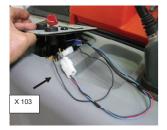
- 1. Assemble the 5 A fuse (Fig. 7/1) in the console (Fig. 7/2), refer to Diagram A.
- 2. Assemble the relay (Fig. 7/3) on the console (Fig. 7/2), too. For dimensions, refer to Diagram B.
- 3. Refer to the circuit diagram for the electrical connection.



1.8 Laying the cable harness





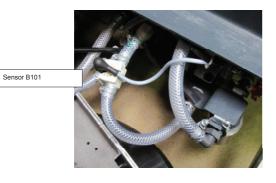




Laying the cable harness (continued)

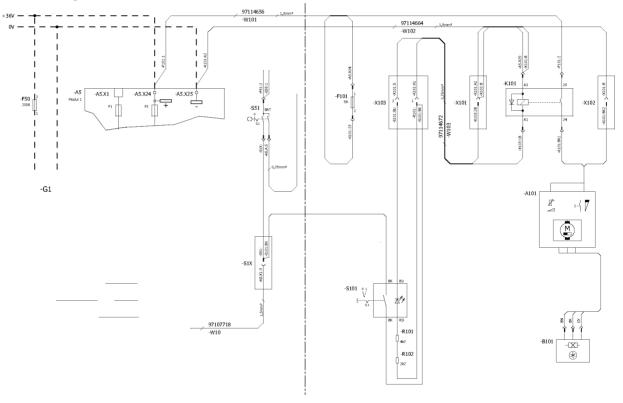


Cable harness W103 Switch operatingpanel





1.9 Circuit diagram



1.10 Operation Starting up

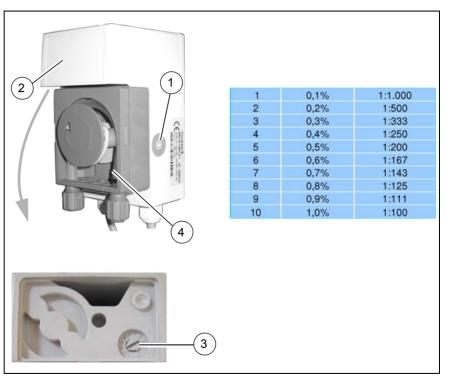
- 1. Fill the chemical canister with cleaning agent.
- 2. Switch on the key switch.
- 3. Switch on the dosing pump switch.
- 4. Press the quick fill switch (Fig. 8/1) on the dosing pump until the chemical is at the non-return valve.

Adjusting the mixture ratio

- 1. Remove the gray cover (Fig. 8/2) from the dosing pump.
- 2. Adjust the mixture ratio according to the cleaning agents used.
- Basic setting = 1:700 Set rotary knob (Fig. 8/3) between positions 1 and 2, refer to table.

Maintenance

Check the hose section (Fig. 8/4) in the hose pump (length approx. 23 mm) and replace, if necessary.







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