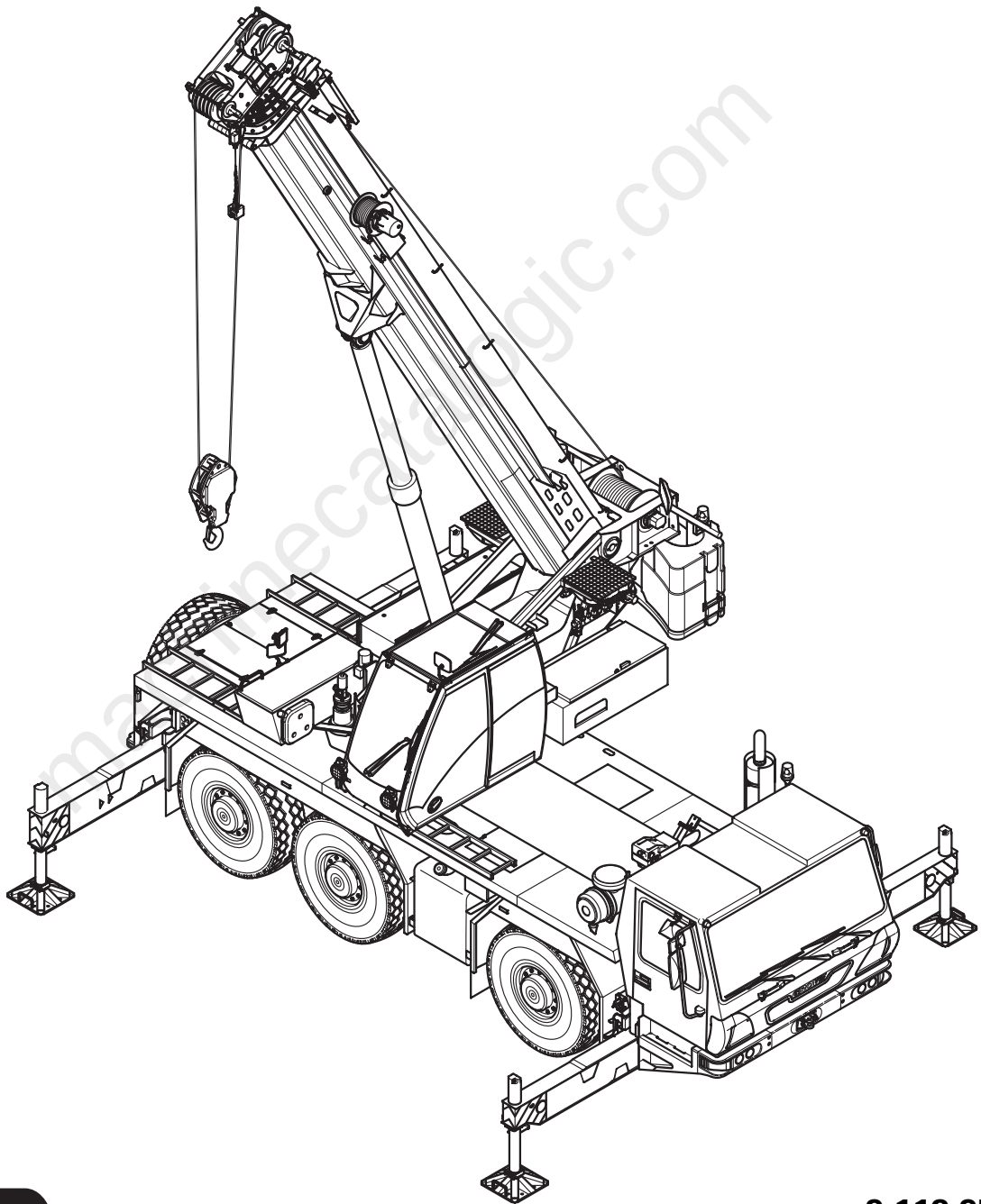


GROVE®

GMK3050-1



Operating instructions Part 1 – Driving



Manitowoc®
Crane Group

Serial number

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A **Manitowoc** Company

Windows

The windows of the driver's door and the passenger's door are opened and closed with electric window winders.

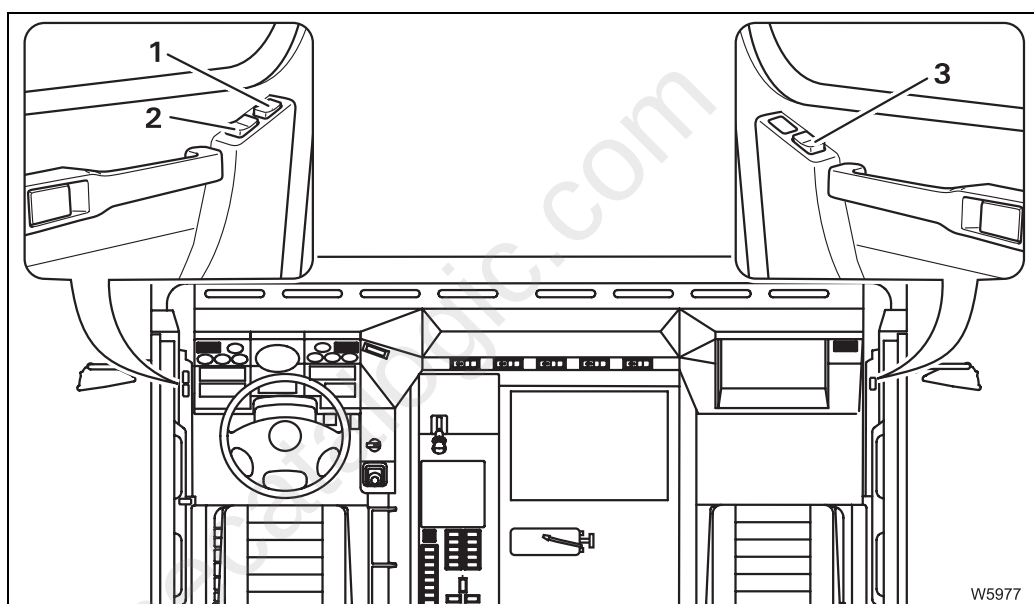


Risk of crushing when closing the windows

Monitor the window and let go of the rocker button as soon as someone reaches into or leans through the window.

If the window winder encounters resistance, it does not stop but keeps moving with reduced power.

There are three *Electric window winder* rocker buttons in the driver's cab.



There are two rocker buttons **on the driver's side**:

- 1 For the window in the driver's door
- 2 For the window in the passenger's door.

There is one rocker button **on the passenger's side**:

- 3 For the window in the passenger's door.

All rocker buttons are operated in the same way:

To open window: Press rocker button up.

To close window: Press rocker button down.

The respective window opens or closes as long as you hold the *Electric window winder* rocker button pressed or until the window is completely opened or closed.

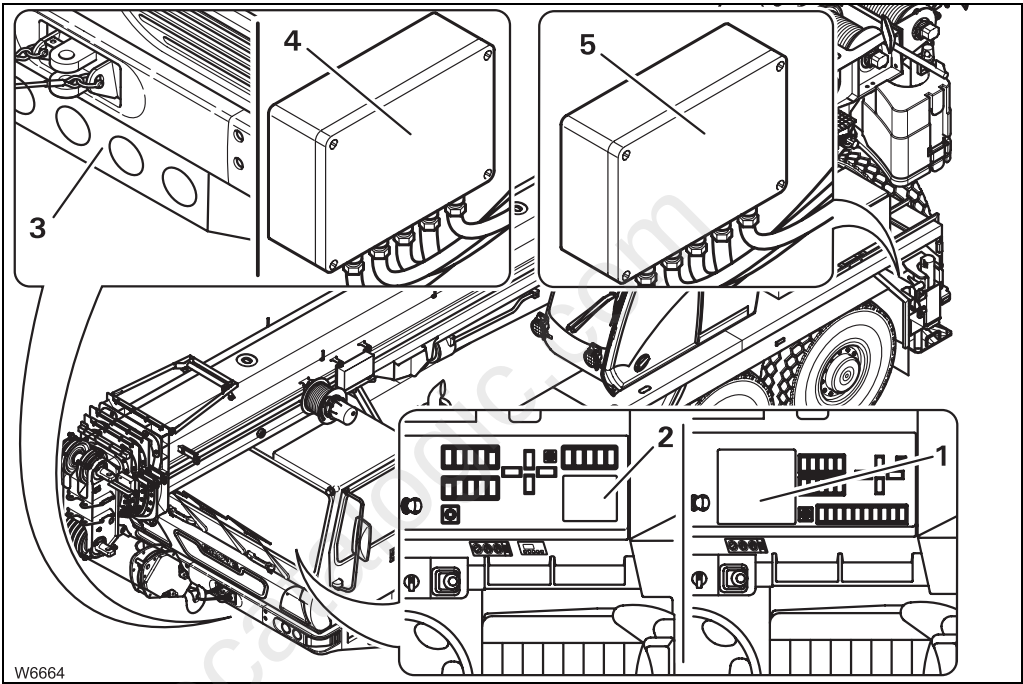


Fuses on I/O
circuit boards

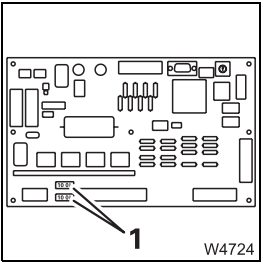
The control unit on connection 3 of the carrier electronics is located on the left, behind the access ladder. It is connected to input-output boards which are each equipped with a further fuse.

Please check these fuses if the fuses for the control unit on connection 3 are intact and the instructions for remedy stated in section *Troubleshooting* do not help eliminate the malfunction.

There are three input-output circuit boards (I/O) on the carrier:



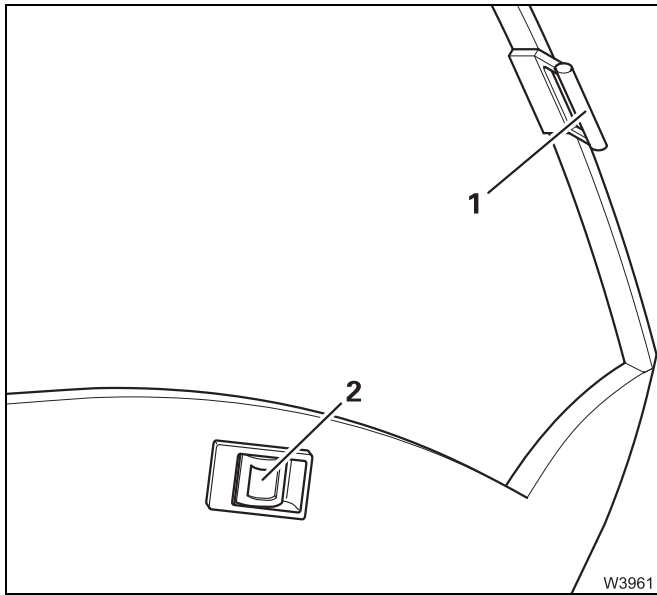
Designation in elec. circuit diagram	Position on the truck crane
I/O 0	On the side instrument panel: – for version 1 under the cover (1) – for version 2 under the cover (2)
I/O 1	Behind the cover (3) on the front right-hand side, on the inside of the vehicle chassis, in the switch box (4).
I/O 2	At the rear left, over the outrigger beam in the switch box (5).



All fuses (1) on the circuit boards have a strength of **10 amps**.

Depending on the model, one or two fuses may be located on a single circuit board.

- Check the fuses and replace defective ones.



Inside on the crane cab door

To close door:

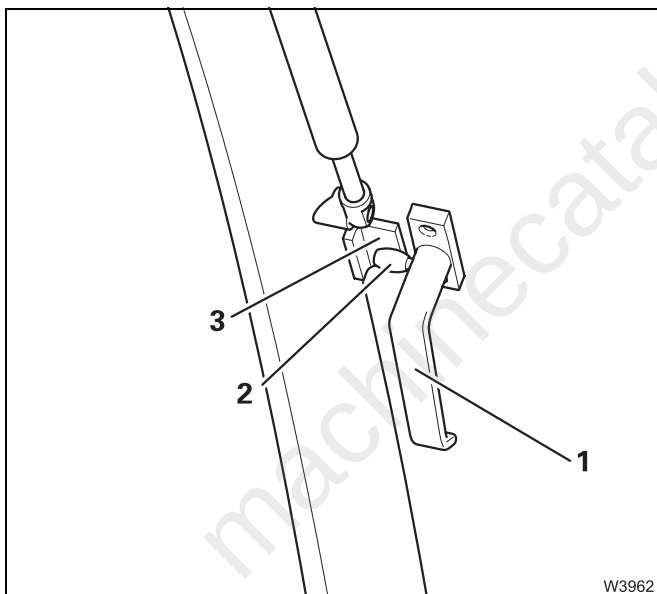
Push door forward with the handlebar (1).
The release lever (2) engages.
The door of the crane cab cannot be locked from the inside.

To open door:

Pull release lever (2) and push door back with the handlebar.

Windows

The front windscreen and the rear window are designed as vent windows.



Windscreen/rear window

The picture shows a handle of the windscreen.
The handles on the rear window have the same function.

Opening the windscreen

Turn both handles (1) inward until the pegs (2) are next to the retaining sheets (3).

Push windscreen forwards into the desired position.

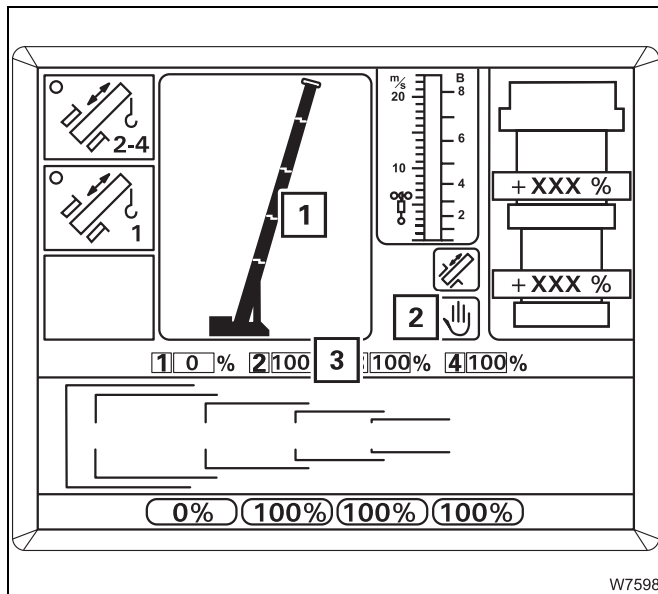
Closing the windscreen/rear window

Pull in the window completely using the handles (1).

Turn both handles downwards so that the pegs (2) are behind the retaining sheets (3).



When the procedure has been completed, the crane control switches teleautomation off again:



- The *Directional indicator for teleautomation* will go out.
- The *Teleautomation on/off display (2)* will show the symbol for manual telescoping.
- The values in the *Input set value for teleautomation display (3)* are shown in **red**.
- Move the telescoping control lever into the initial position.

No telescopic section is pre-selected for telescoping. The *Current pre-selection display (1)* shows all telescopic sections in black.

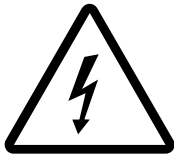
Telescoping with the automatic control has now been completed.



If you want to extend telescopic section I to e.g. 60%, you can now further extend this telescopic section with the semi-automatic control.

13.2.3

Earthing the truck crane



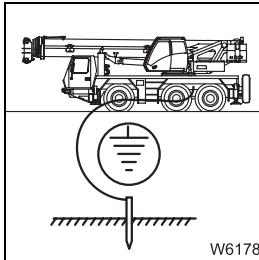
Risk of accidents due to electric shocks

Earth the truck crane before starting crane work

- near strong transmitters (radio transmitters, radio stations, etc.),
- near high-frequency switching stations,
- if a thunder storm is forecasted.

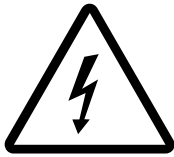
The truck crane can become electrostatically charged. This applies in particular if the truck crane is equipped with synthetic outrigger pads or the outrigger pads are packed with insulated material (e.g. wooden planks).

Earthing the truck crane



To prevent electrostatic charging of the truck crane, you will need:

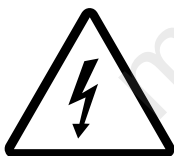
- a conductive metal rod to insert into the earth (approx. 2.0 m in length),
- an electrically conductive cable, minimum cross section 16 mm²,
- a screw clamp for welding work.



Risk of accidents due to electric shocks

Ensure that the connection between the load and the ground is a perfect, electrically conductive connection.

- Connect one end of the cable to the metal rod that is to be inserted into the ground. Hammer the metal rod at least 1.5 m into the ground. Moisten the soil around the metal rod for better conductivity.



Risk of accidents due to electric shocks

Fasten the screw clamp for welding work on welded parts of the main boom or the superstructure only.

Do not fasten the clamp to screwed on parts such as valves, cover plates, engines, gear units etc.!

- Connect the other end of the cable to the screw clamp for welding work and fasten the clamp to the main boom or the superstructure.



Malfunction	Cause	Remedy
When operating with from the crane cabin: Outrigger cylinders and beams can neither be extended nor retracted and the electronic level is not working.	Solenoid valves do not switch electrically.	Actuate the solenoid valves manually; ■■■► p. 8 - 58.
	F 5/4 or F 1/7 Carrier fuse defective	Check the fuses and replace them if necessary; ■■■► p. 8 - 32.
	F 1/1, F 1/4, F 1/5 or F 1/6 SS fuse defective	Check the fuses and replace them if necessary; ■■■► p. 14 - 8.
	Defective fuse on the I/O 0, I/O 1 (front outriggers) or I/O 2 (rear outriggers) circuit board	Check the fuses and replace them if necessary; ■■■► p. 8 - 37.
	Hand-held control is connected to a socket on the super-structure	Remove the hand-held control and insert the bridging plug; ■■■► p. 13 - 34.
When operating with from the switch boxes: Outrigger cylinders and beams can neither be extended nor retracted and the electronic level is not working.	Solenoid valves do not switch electrically.	Actuate the solenoid valves manually; ■■■► p. 8 - 58.
	F 5/4 or F 1/7 Carrier fuse defective	Check the fuses and replace them if necessary; ■■■► p. 8 - 32.
	F 1/1, F 1/4, F 1/5 or F 1/6 SS fuse defective	Check the fuses and replace them if necessary; ■■■► p. 14 - 8.
	Defective fuse on the I/O 0, I/O 1 (front outriggers) or I/O 2 (rear outriggers) circuit board	Check the fuses and replace them if necessary; ■■■► p. 8 - 37.
	Display fields have been switched off on the crane control display.	Switch on the display fields in the <i>Settings/Displays</i> sub-menu; ■■■► p. 13 - 43.
	Hand-held control connected to the carrier	Remove the hand-held control and insert the bridging plug; ■■■► p. 13 - 34.

Full Version Available

Grove GMK 3050-1 All Terrain Crane Operator Manual

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