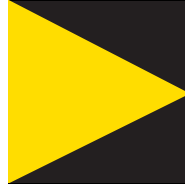
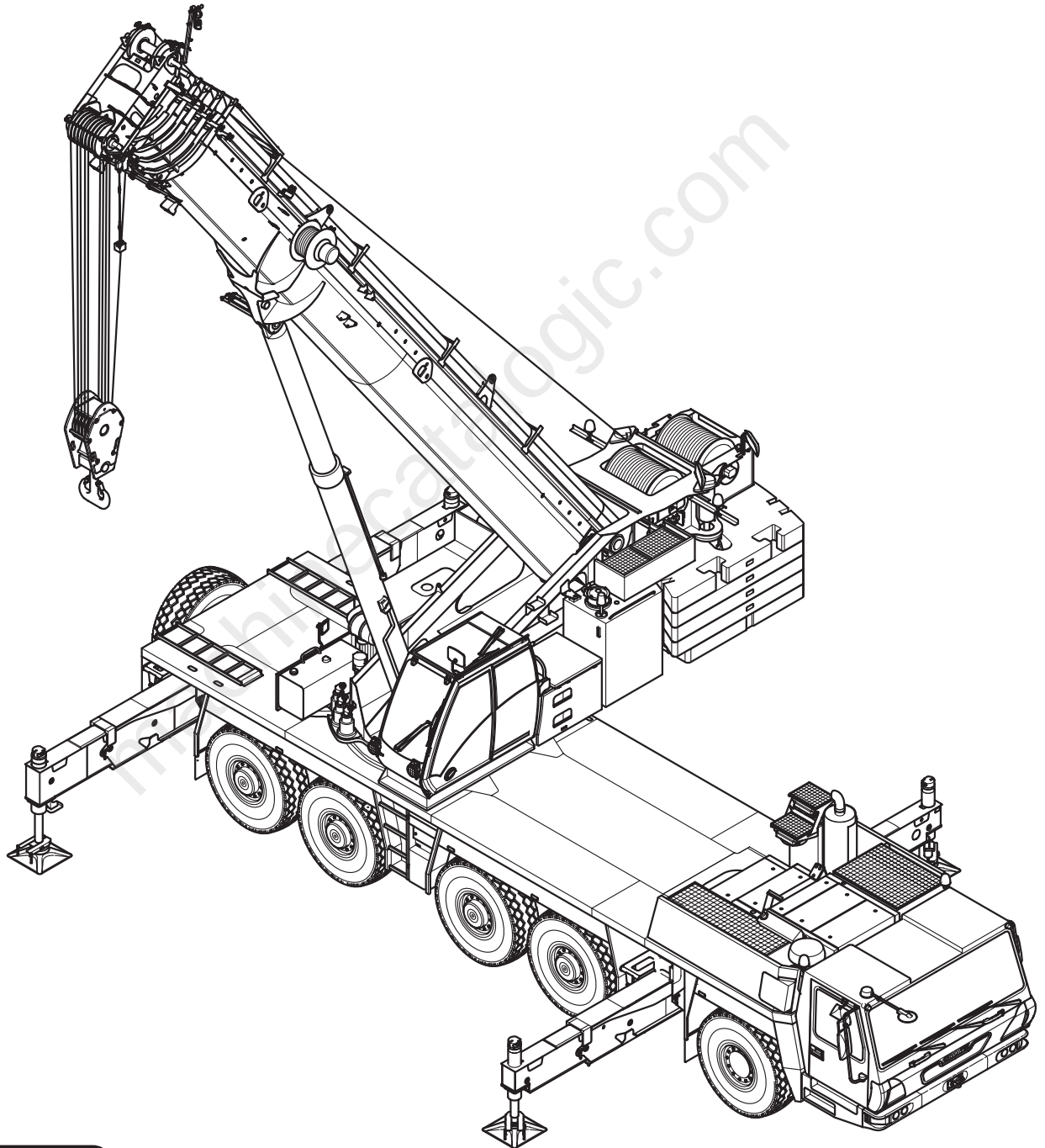


GROVE®

GMK 5170



Maintenance manual



Manitowoc®
Crane Group

Serial number

3 112 543 en
21.08.2008

A **Manitowoc** Company

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5.2.11

Maintenance plan Y 10

Y 10

Maintenance work on the CARRIER: Every 120 months/after 200 000 km	
Steel construction – Check the load-bearing steel construction. For more information, please contact <i>Manitowoc Crane Care</i> .	
Maintenance work on the SUPERSTRUCTURE: Every 120 months/after 12 000 op. hrs.	
Steel construction – Check the load-bearing steel construction. For more information, please contact <i>Manitowoc Crane Care</i> .	
Safe load indicator (SLI) – Have the SLI checked by <i>Manitowoc Crane Care</i> .	

7.12.2

Checking for leaks

W

- Start up the compressed air system.
- Look for any possible leaks in the compressed air system (connections, pipes, hoses and valves).



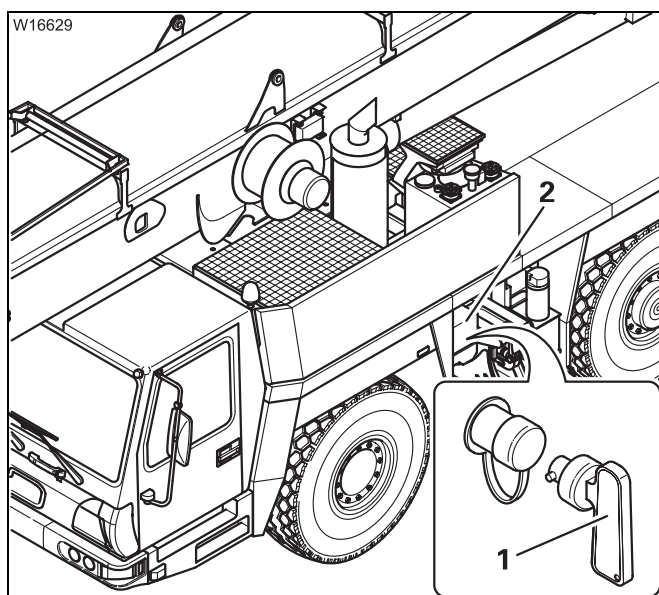
Risk of accidents due to escaping compressed air

Never tighten connections when the system is under pressure. Only change gaskets, pipes and hoses when the system is depressurised.

If any damage cannot be rectified immediately or further damage is likely:

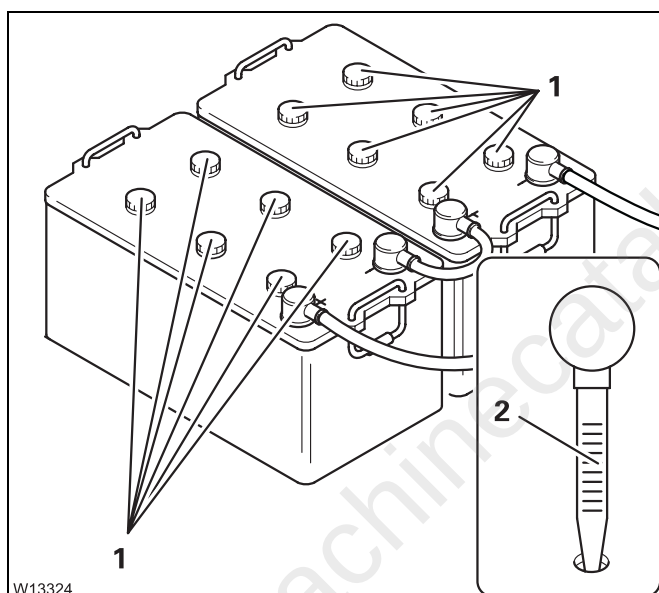
- Notify **Manitowoc Crane Care** or an authorised GROVE dealer or your repair crew.

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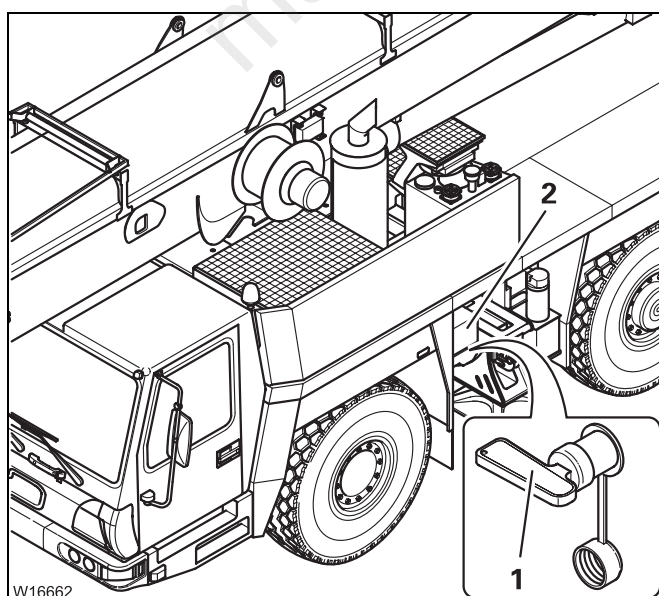
Before checking

- Turn the battery master switch (1) off and remove the selector handle.
- Open the battery box (2).



Checking the acid concentration

- Release all lids (1).
- Read off the cell value on the acid siphon (2) and compare the value with that in the table; *Charge level table, p. 7 - 88.*
- Check all cells in the same way.
- Screw on all lids (1) tightly.



After checking

- Close the battery box (2).
- Attach the selector handle and switch on the battery master switch (1).
- Check the timers on the tachograph and on the auxiliary heater; *Operating manual.*
- Enter the code for the radio; *Separate operating manual.*

8.5

Hoists

8.5.1

Checking the oil level

W

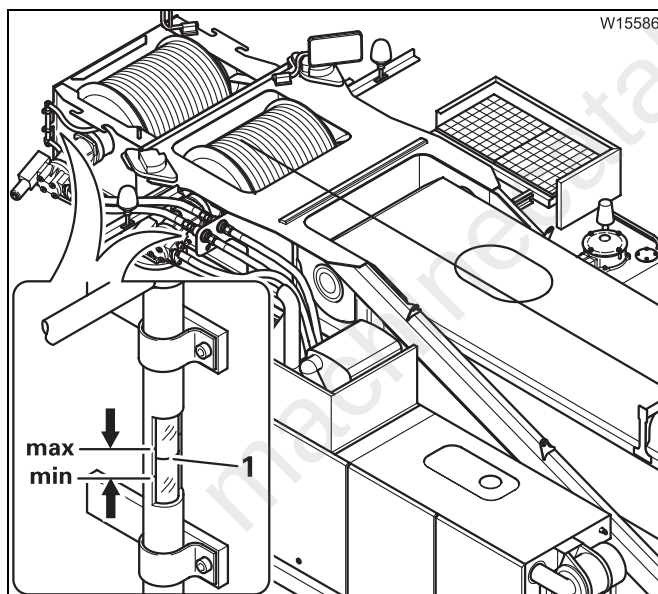
Spare parts and tools

Designation	Quantity	GROVE part no.
Gasket 18 x 24 Cu DIN 7603	4	01377793

Prerequisites

- The truck crane is horizontal and is in on-road mode;  *Operating manual*.
- The engine is not running and is secured against unauthorised use;
 p. 2 - 3.

Checking the oil level



- Check whether the oil level is between the **min.** and the **max.** marks (1).

If the oil level is too low:

- Top up the oil;  p. 8 - 26.

8.11.2

Lubricating the slewing angle sensor

Y 5

Grease, spare parts, tools

Lubricating grease	Designation according to DIN 51502	Specification classification	GROVE part no.
Grease	KP - L2K	DIN 51825	00554201

Designation	Quantity	GROVE part no.
Gasket 16 x 20 Cu DIN 7603	1	00117134

- Grease gun from the tool set.
- Sealing agent (e.g. Hylomar).
- Torque wrench for 25 Nm.

Prerequisites

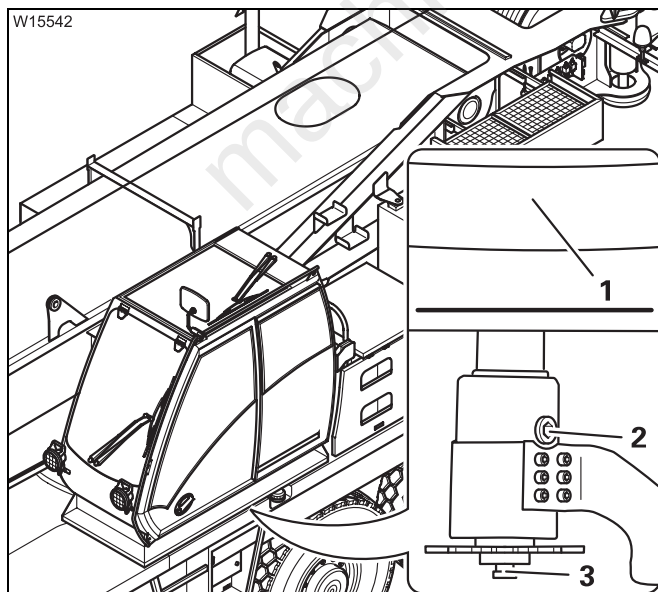
- The engine is not running and is secured against unauthorised use;
 p. 2 - 3.



Risk of damage to the slewing angle sensor

Before lubricating, always remove the bolt from the slewing angle sensor. This prevents the slewing angle sensor from becoming damaged.

Lubricating



- Remove the plate (1).
- Remove the bolt (2).
- Clean the lubricating nipple (3) and insert about 5 cm³ of grease.
- Remove any excess grease, and close the lubricating nipple.
- Tighten the bolt with a new gasket and sealing agent – torque 25 Nm.
- Attach the plate.

Full Version Available

Grove GMK 5170 All Terrain Crane Maintenance Manual

Grove GMK 5170 all terrain crane maintenance manual covering intervals, lubrication, fluids, filters and inspections. 870 pages in PDF.

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