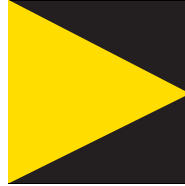
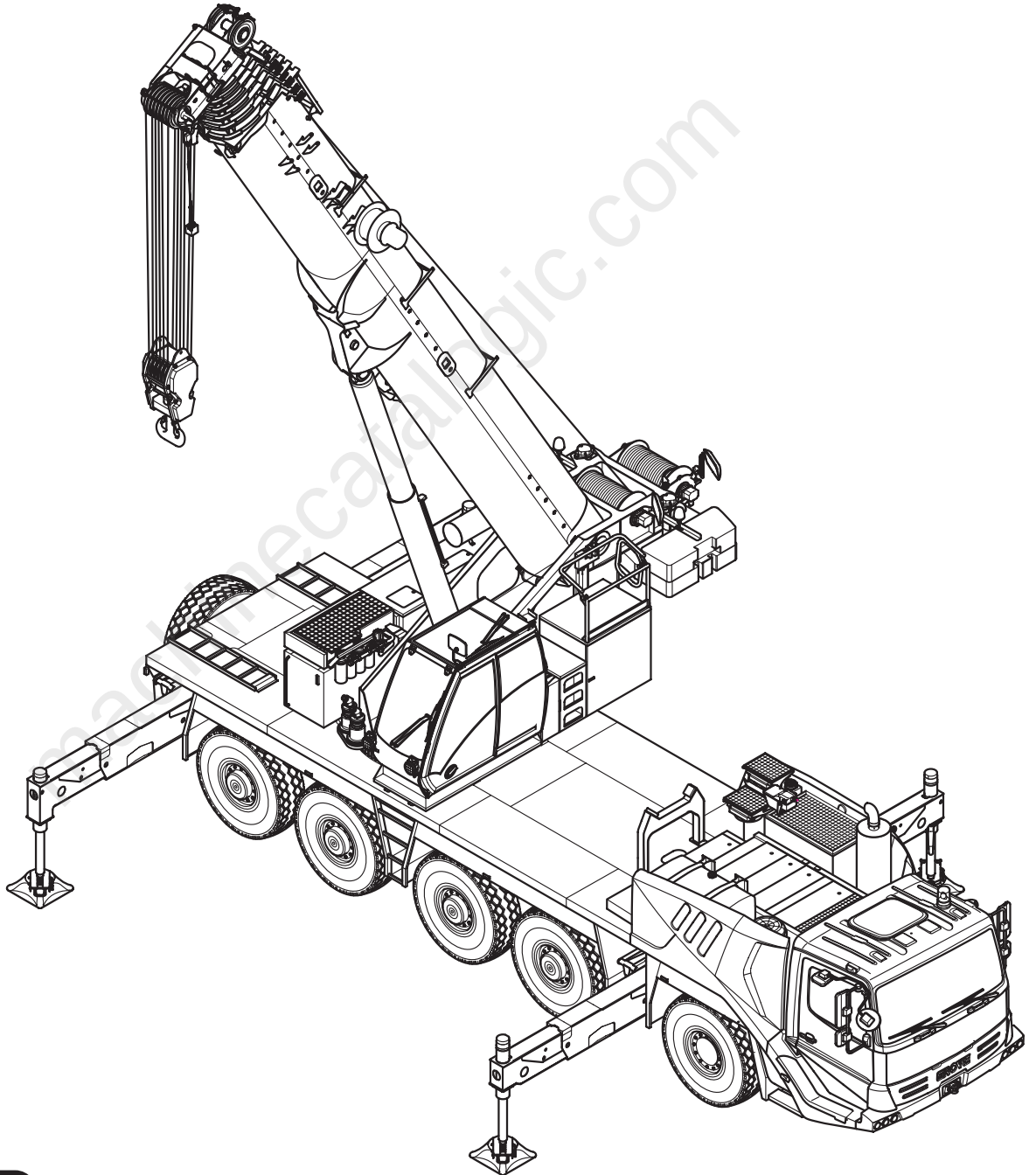


GROVE®

GMK 5095



Maintenance manual



Manitowoc®
Crane Group

Serial number

3 112 432 en
30.11.2007

A **Manitowoc** Company

Sample table to determine the remaining theoretical service life on winch no. 1 (main hoisting winch)

Crane model:

Work number:

Commissioned on:

Serial number of the winch in accordance with the type plate:

Last general overhaul performed on:

Winch design data (see operating instructions):

Power unit group:

Load spectrum:

Factor of the load spectrum:

Theoretical service life:

GMK 3045

3045 42 06

10 June 1990

13 301

.....

M 3

Q 1 (L1)

Km = 0.125

D = 3200 hrs.

Inspection interval no. (max. 1 year)	Date of commission/ date of inspection	Operational condition since the last inspection	Factor of the load spectrum	Operating hours of the entire crane [hrs.]	Operating hours of the superstructure [hrs.]	Operating hours of the superstructure since the last inspection [hrs.]	Operating hours of the winch [hrs.]	Operating hours T_1 of the winch since the last inspection [hrs.]	Used proportion S_i of theoretical service life D : [hrs.]	Remaining theoretical service life $D_i = D_{i-1} - S_i$ [hrs.]	Name of competent person	Signature	Note	Name of the approved inspector	Signature
0(*)	10. 6. 90	–	–	–	–	–	–	–	0	3200					
1	5. 6. 91	L 1	0.125	–	–	–	160	160	160	3040	Müller				
2	20. 5. 92	L 3	0.5	–	–	–	640	480	1920	1120	Huber				
3	18. 5. 93	L 2	0.25	–	–	–	940	300	600	520	Schmitz				

CAUTION:

A general overhaul is to be performed every 10 years.

Alternative provision, refer to Section 5.4.2, p. 5 - 25.

Last general overhaul performed on

S_i = Used proportion of theoretical service life since the last inspection

D_i = Remaining theoretical service life

D_{i-1} = Remaining theoretical service life after the previous inspection

K_m = Factor of the load spectrum used to calculate the winch.

This factor is given in the operating instructions.

K_{m1} = Load spectrum factor in the inspection interval "1" according to Section 2.1

T_1 = Effective working hours in the inspection interval "1" according to Section 2.2

(*) Copy last line of the previous page to the following page.

7.10.3

Forced lever – checking correct functioning

M 3

On suspension struts with forced levers, the forced levers must be checked for proper functioning when the suspension is switched on and off.



Risk of crushing when releasing the suspension locking system

When the suspension is switched on, the wheels drop down suddenly. Ensure that nobody is in close proximity to the wheels when you switch on the suspension.

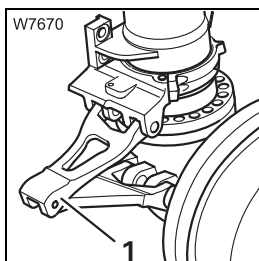
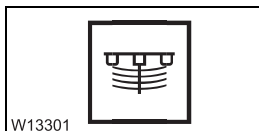


Risk of damage to the tyres

Remove sharp-edged or pointed objects from below the wheels before switching on the suspension.

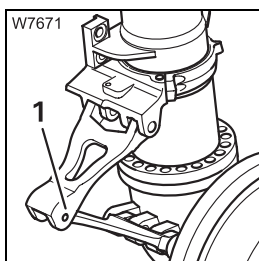
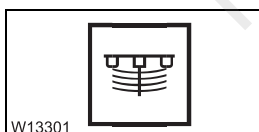
In this way you prevent the tyres bursting or being damaged when lowering the wheels.

- Start the engine.
- Lower the truck crane to the lowest level with the level adjustment system; *Operating Instructions*.
- Switch off the suspension; *Operating Instructions*.



The suspension struts and the forced levers (1) are brought together.

- Raise the truck crane with the outriggers; *Operating Instructions*.
- Switch on the suspension; *Operating Instructions*.



- Check whether all suspension struts are extended and the forced levers (1) are slackened.

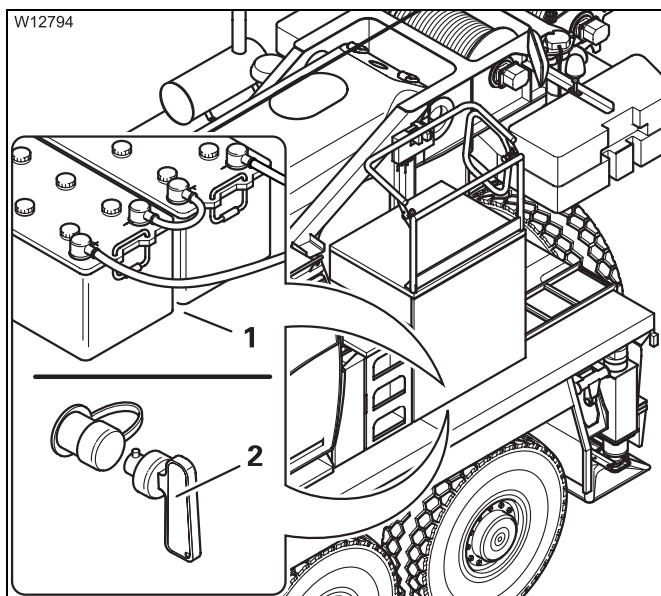
If the suspension struts are not extended or only partially extended, the forced lever is faulty.

- Faulty forced levers should be replaced as soon as possible by **CraneCARE** your repair crew.

8.14.2

Checking the batteries

M 1



- Switch the battery master switch (2) off and remove the selector handle.
- Check the batteries (1) in the same way as when checking them on the carrier;
 ▣▣▣▣▶ *Checking the batteries, p. 7 - 78.*

8.14.3

Checking the charge level of the batteries

M 3

- Check the charge level in the same way as when checking it on the carrier;
 ▣▣▣▣▶ *Checking the charge level of the batteries, p. 7 - 80.*

Full Version Available

Grove GMK 5095 All Terrain Crane Maintenance Manual

Grove GMK 5095 all terrain crane maintenance manual covering intervals, lubrication, fluids, filters and inspections. 286-page English PDF.

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