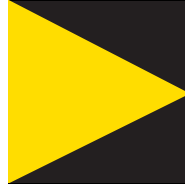
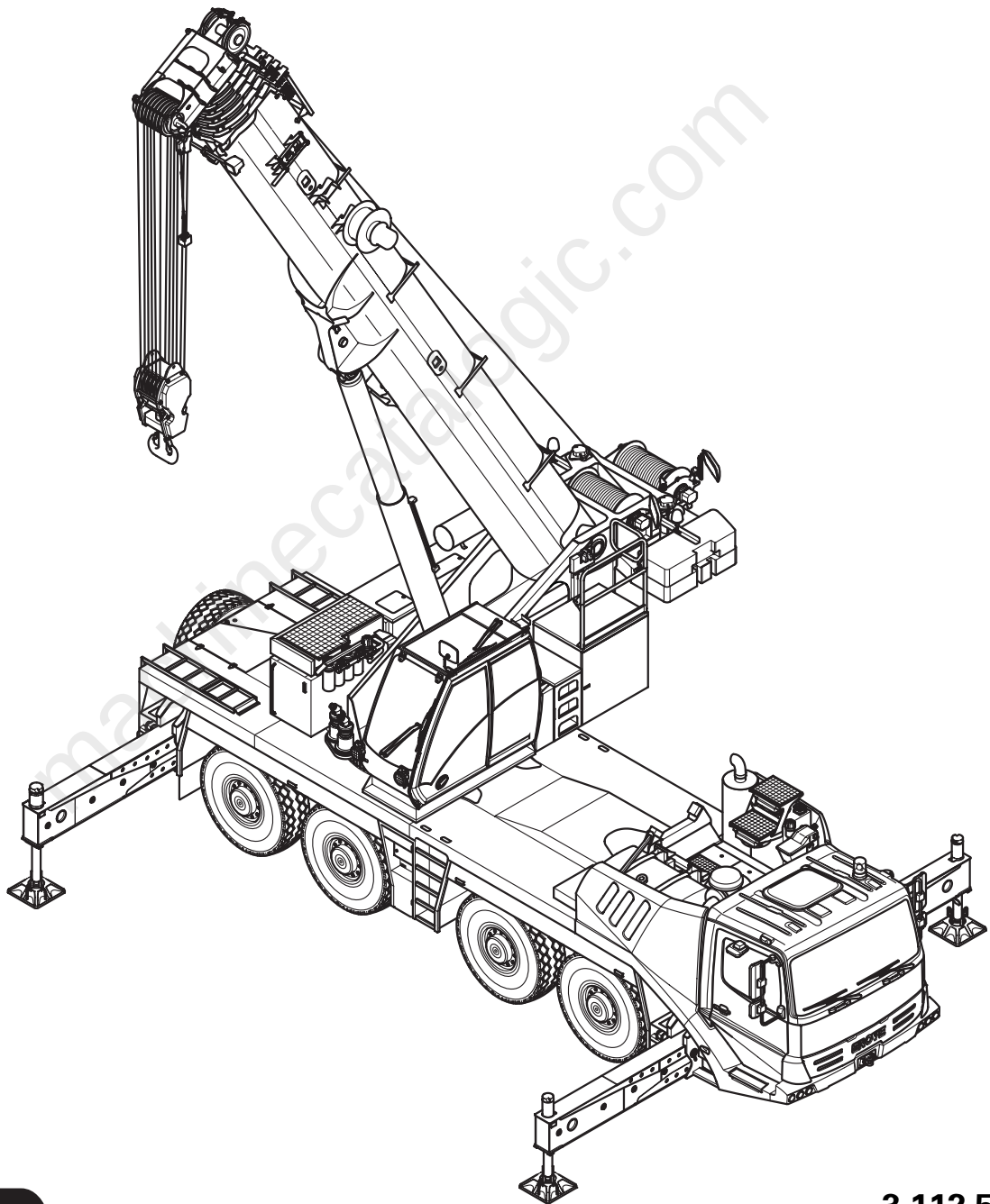


GROVE®

GMK4100/4100-L



Maintenance manual



Manitowoc®
Crane Group

Fabriknummer

3 112 528 en
24.06.2008

A **Manitowoc** Company

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7.8.2

Checking the tyre air pressure

W



Risk of damage to the tyres

The air pressure increases when the tyres are at operating temperature.
Never release the increased air pressure of tyres at operating temperature
Always check the air pressure in on-road driving mode with cold tyres.

- Check the tyre pressure and the spare wheel using the following table.

Tyres	Air pressure in bar with cold tyres
14.00 R 25 ¹⁾	10.0
16.00 R 25	9.0
20.50 R 25	7.0
¹⁾ Michelin X-Crane	9.0

7.18.3

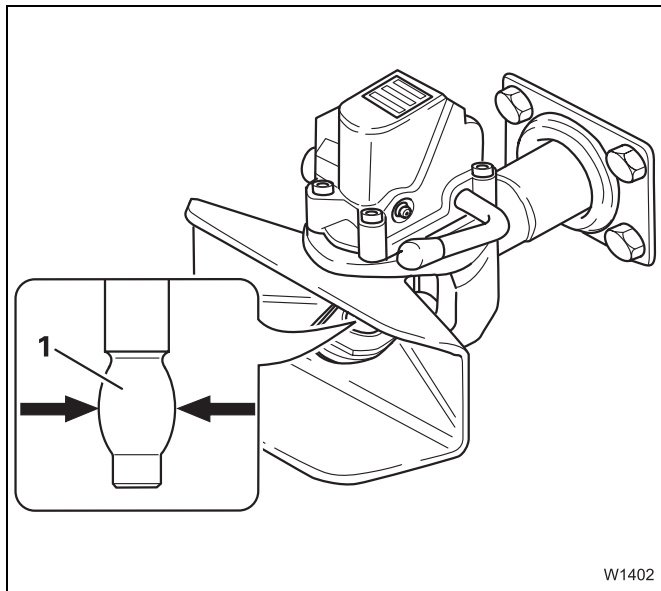
Checking the cotter pin

M 3

Prerequisites

- The coupling is closed;  p. 7 - 94.

Checking the cotter pin

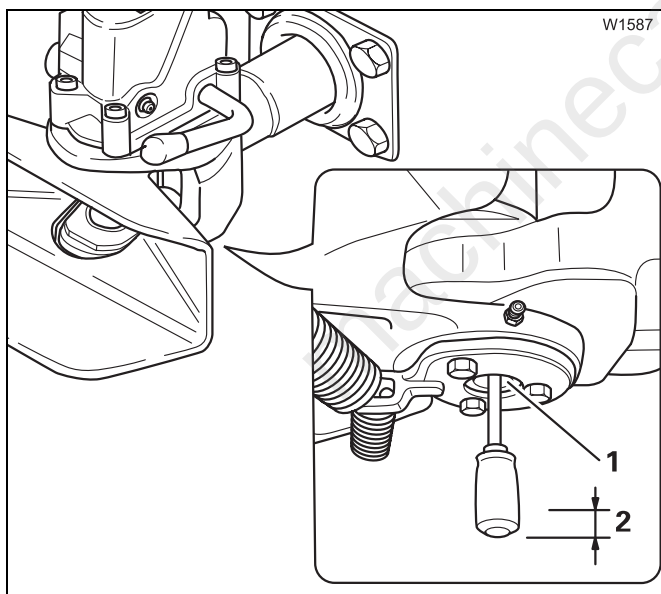


- Check the wear on the cotter pin (1). The diameter of the crowned section (arrows) must not be less than the following values:

Model series 400: 36.5 mm

Model series 700: 46.0 mm

If the dimension is smaller than that given above, have the cotter pin replaced by **CraneCARE** or an authorised GROVE dealer or your repair crew.



- Also check the cotter pin for the correct vertical play. Take a screwdriver and press the pin (1) upwards. The vertical play (2) of the cotter pin must not exceed 4 mm.

8.6.4

Changing the oil/Checking the oil

M 12

- Comply also with the  *Run-in regulations*, p. 4 - 1.

Oil, spare parts, tools

Gear oil in litres	Designation to DIN 51502	Specification Classification	GROVE part no.
0.9 for each slewing gear	C - LPF	MIL-L 2105 B API-GL-4/5 Viscosity: SAE 75 W-90 EP ISO - VG 220	02313611 Synthetic oil; do not mix this with mineral-based oils

Designation	Quantity	GROVE part no.
Gasket 10 x 14 Cu DIN 7603	2	00117125
Gasket 14 x 20 Cu DIN 7603	2	00117132

- Receptacle, approx. 5 l;  p. 2 - 4.

Prerequisites

- The truck crane is level and is in on-road mode;  *Operating Instructions*.
- The engine is switched off and secured against unauthorized use;  p. 2 - 3.

Changing the oil



Risk of environmental damage due to leaking consumables

Always let consumables drain into suitable receptacles. Wipe up any consumables that have leaked.

Store/dispose of consumables and any soaked equipment properly.

Ask about the applicable regulations.

- Always change the oil in all slewing gears.

8.9.3

Checking the sheaves

M 3

- Check all sheaves on the main boom head for damage, wear, mobility and extreme soiling.

Have damaged, worn, sluggish or extremely soiled sheaves replaced by **CraneCARE** or an authorised GROVE dealer or your repair crew.

8.9.4

Checking the locking system

M 12



Risk of accidents if maintenance work is not carried out

Have the additional maintenance work on the main boom locking system performed regularly by **CraneCARE** or an authorised GROVE dealer.

This prevents the complete unlocking of a telescopic section in Emergency operation/Emergency program mode, which could cause serious accidents and damage to the truck crane.

- Have the maintenance work on the main boom performed regularly by **CraneCARE** or an authorised GROVE dealer.

Full Version Available

Grove GMK 4100L All Terrain Crane Maintenance Manual

Grove GMK 4100L all terrain crane maintenance manual covering intervals, lubrication, fluids, filters and inspections. English PDF, 294 pages.

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