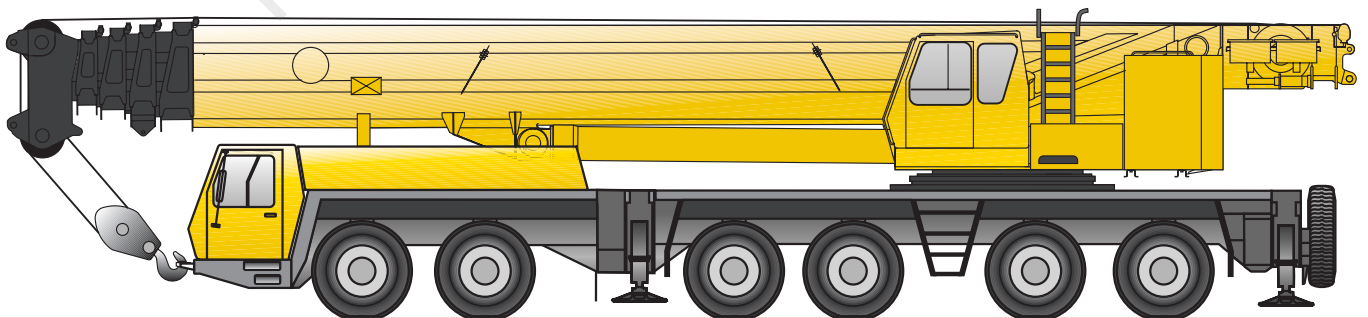


GROVE®

GMK 6300



Operating instructions Part 1 – Driving



Manitowoc®
Crane Group

Serial number

3 112 200 en
16.01.2006

A **Manitowoc** Company

1.3.4**Lifting capacity tables**

In these tables you can find information on the lifting capacity, the permissible wind speeds and the SLI code of the truck crane in various rigging modes and main boom positions.

1.3.5**Outrigger pressure table**

These tables contain information on the outrigger pressures on the pressure points of the outriggers, depending on the load, working radius, rigging mode and main boom direction.

1.3.6**Safety manual**

The *Safety manual* is intended to warn you, the crane operator, of hazards that can occur when operating truck cranes. It is intended to show you how to avoid these hazards right from the start or how to react properly.

The *Safety manual* contains

- General safety instructions
- Safety instructions for driving truck cranes
- Safety instructions for rigging and working with truck cranes
- Safety instructions for operating the crane under specific operating conditions

The crane operator is obliged to read the *Safety manual* carefully, since this is essential for the safe operation of the truck crane.

1.3.7**Circuit diagrams**

Circuit diagrams are used for troubleshooting and are intended for trained maintenance personnel and the local **CraneCARE**.

Enclosed are:

- The compressed-air circuit diagram
- The hydraulic circuit diagram and
- The electrical circuit diagram.

7 Driving modes and rigging for on-road driving

7.1	Driving modes	7 -	3
7.1.1	Information on how to use the tables	7 -	4
7.1.2	Tables for a maximum axle load of 12 t.	7 -	5
7.2	Rigging work for driving with a trailer	7 -	7
7.2.1	Switching on the slewing gear freewheel	7 -	8
7.2.2	Switching on the boom floating position	7 -	10
7.2.3	Switching on boom pre-tensioning	7 -	12
7.3	Rigging the outrigger beams	7 -	15
7.3.1	CHECKLIST: Removal of the outrigger beams	7 -	16
7.3.2	CHECKLIST: Installation of the outrigger beams.	7 -	18
7.3.3	Preparing the truck crane for the removal/installation	7 -	21
7.3.4	Removing/applying the outrigger pads	7 -	22
7.3.5	Disconnecting/establishing the hydraulic connection	7 -	23
7.3.6	Establishing/disconnecting the electrical connection for the outrigger pressure indicator	7 -	26
7.3.7	Transport/operating position of the holding angle	7 -	27
7.3.8	Locking the extension cylinder/releasing the locking pin.	7 -	28
7.3.9	Pulling out/inserting the outrigger beam.	7 -	30
7.3.10	Transporting the outrigger beams/pads	7 -	34
7.4	Rigging the rear outrigger box (ROB)	7 -	35
7.4.1	CHECKLIST: Removal of the outrigger box	7 -	36
7.4.2	CHECKLIST: Installation of the outrigger box	7 -	38
7.4.3	Preparing the truck crane for the removal/installation	7 -	40
7.4.4	Crane movements during the installation and removal procedures.	7 -	41
7.4.5	Slinging points on the rear outrigger box (ROB)	7 -	42
7.4.6	Establishing/disconnecting the electrical connection	7 -	43
7.4.7	Disconnecting/establishing the hydraulic connection	7 -	44
7.4.8	Attaching/raising the outrigger box with the truck crane.	7 -	45
7.4.9	Locking the outrigger box to the carrier and unlocking it again	7 -	47
7.4.10	Establishing/disconnecting the pneumatic connection	7 -	48
7.4.11	Slewing with the rear outrigger box (ROB) removed.	7 -	49
7.4.12	Transportation on a separate vehicle.	7 -	50
7.4.13	Setting down the main boom on a trailer with the rear outrigger box (ROB) removed	7 -	51
7.5	Rigging the main boom	7 -	53
7.5.1	CHECKLIST: Removal of the main boom.	7 -	54
7.5.2	CHECKLIST: Installation of the main boom.	7 -	57
7.5.3	Rigging work with the auxiliary crane	7 -	60
7.5.4	Establishing/disconnecting the hydraulic connection to the lattice extension (additional equipment).	7 -	62



Hoist rope control spotlight rocker switch

For switching on/off a spotlight which illuminates the rope drum.

To switch on the spotlight: Press down the rocker switch.

To switch off the spotlight: Press up the rocker switch.



Air traffic control light rocker switch

For switching on the air traffic control light, provided it is connected to the electrical power supply on the main boom or lattice extension (additional equipment).

Installation/Removal of the air traffic control light; p. 14 - 105.

To switch on the light: Press down the rocker switch.

To switch off the light: Press up the rocker switch.

Other operating elements



Windscreen wiper rocker switch

For switching on the windscreen wiper on the crane cab.

To switch on the wiper: Press down the rocker switch.

To switch off the wiper: Press up the rocker switch.

The windscreen wiper returns to the end position after being switched off.



Roof window wiper rocker switch

For switching on the roof window wiper on the crane cab.

To switch on the wiper: Press down the rocker switch.

To switch off the wiper: Press up the rocker switch.

The windscreen wiper returns to the end position after being switched off.



Windscreen and roof window intermittent wiper rocker switch

For switching on the intermittent wiper function for the windscreen and roof window wiper.

To switch on the function: Press down the rocker switch.

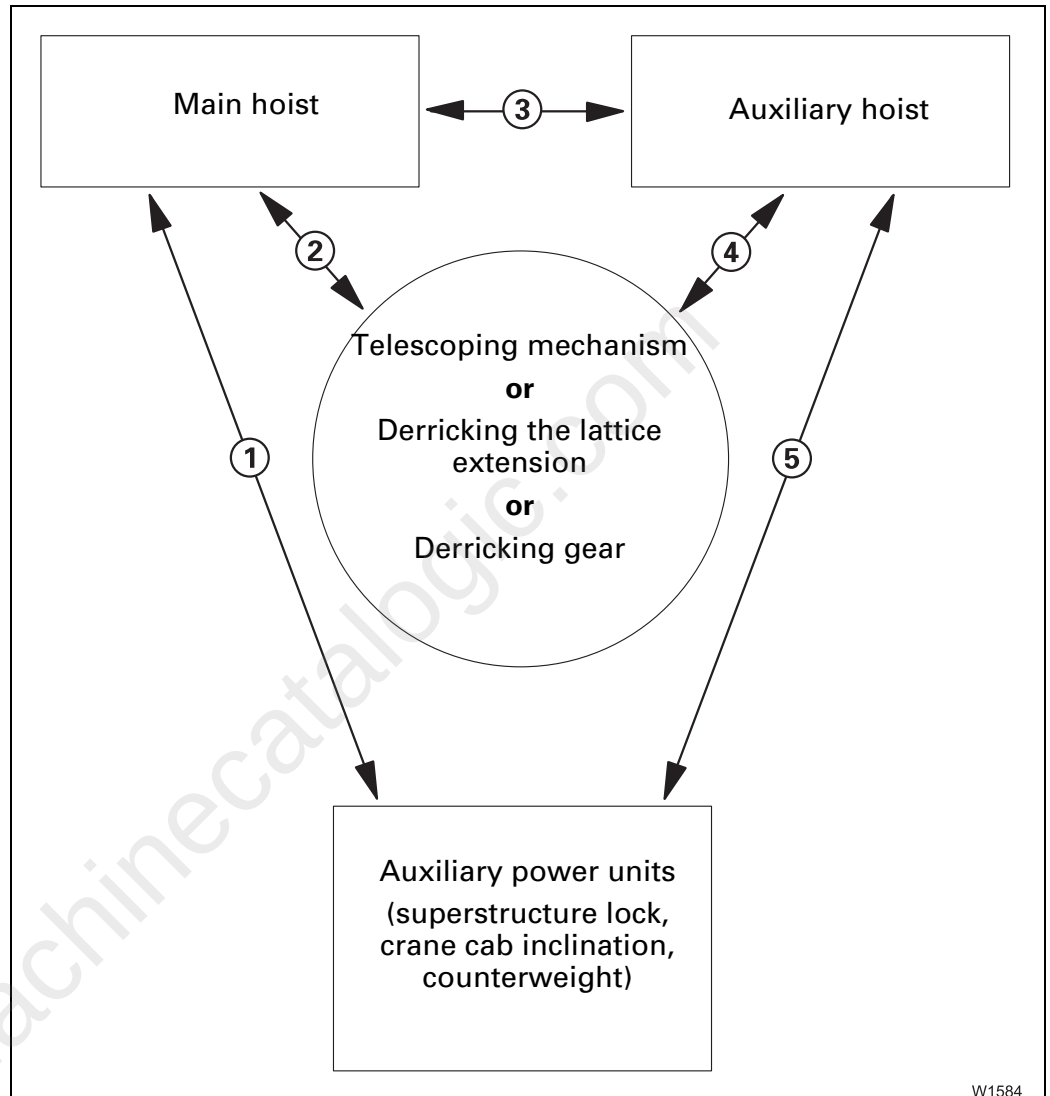
To switch off the function: Press up the rocker switch.

The windscreen wiper returns to the end position after being switched off.



13.3.13 Possible combinations of operations

You can move various power units at the same time. The movements which can be carried out simultaneously are shown in the following diagram:



The double arrows **1, 2, 3, 4** and **5** connect the power units which can be moved at the same time. It is not possible to carry out several combinations of operations which are indicated by a double arrow at the same time.



The slewing gear can be moved in addition to any of the combinations of operation. The lowering function can be additionally carried out if the control lever is switched to *derricking*.



Some combinations of operations can reduce the speed in high-speed mode.

15.2

CHECKLISTS: Installing/removing with counterweight hoist



To install/remove the auxiliary hoist, the top 14 t counterweight section must be equipped with folding carriers (additional equipment).

15.2.1

CHECKLIST: Installing with counterweight hoist

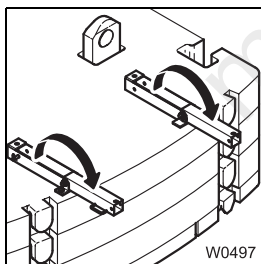


This checklist is not a complete set of operating instructions. There are accompanying instructions, which are referred to by cross-references. Observe the warnings and safety instructions specified there.

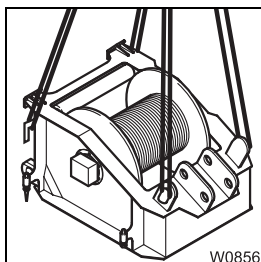
Prerequisites

- The truck crane is supported with the outrigger span required for the respective crane work according to the load capacity chart;  *Outrigger span*, p. 14 - 27.
- A counterweight of at least 50 t is rigged, and the counterweight version is lowered onto the counterweight platform;  *CHECKLIST: Rigging counterweight*, p. 14 - 58.
- The current rigging mode of the truck crane is entered in the SLI;  *Entering the rigging mode*, p. 13 - 21.

When the auxiliary hoist is rigged for operation with the auxiliary single-sheave boom top or the heavy load lattice extension, only points 1 to 3 and 5 to 12 need to be carried out.



1. Fold out the folding carriers on the top 14 t counterweight section;  *Folding the folding carriers in/out*, p. 15 - 23.



2. Sling auxiliary hoist to the truck crane or auxiliary crane;  *Slings points*, p. 15 - 13.



Full Version Available

Grove GMK 6300 All Terrain Crane Operator Manual

Grove GMK 6300 all terrain crane operator manual, covering controls, safe operation, setup and driving. 2 PDF files, 1,200 pages. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/grove-gmk-6300-all-terrain-crane-operator-manual/>

Book No: 3 112 200 EN · File Pages: 1,200 · File Count: 2 · File Language: English, German