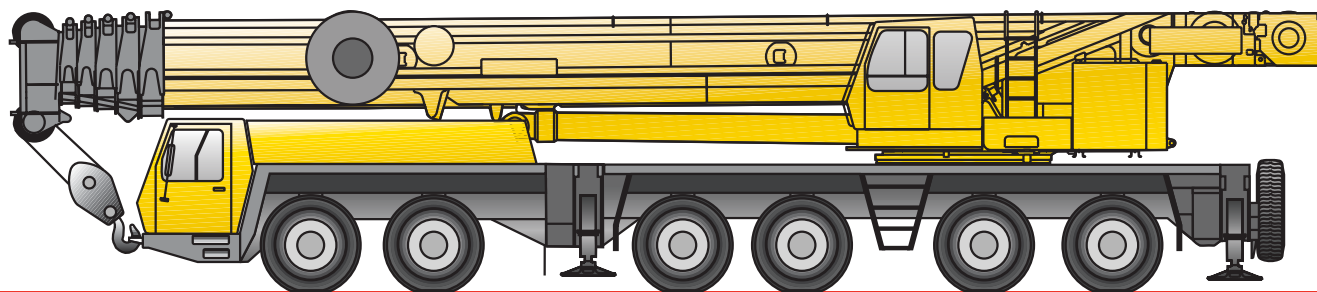


GROVE®

GMK 6220-L



Operating instructions Part 1 – Driving



Manitowoc®
Crane Group

Serial number

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A **Manitowoc** Company

6.3

Off-road driving

Switch to a lower gear position when there are difficulties obtaining traction on swampy ground or on poorly compacted surfaces.

Switch the automatic transmission into driving mode **P**;  *Changing the driving modes*, p. 6 - 18.

You may also take the following steps in the order specified below:

– **Switching from on-road to off-road driving**

The off-road gear reduces the travelling speed in all gears and thus increases the thrust of the driven wheels.

You may also use the off-road gear to shunt (drive slowly) on solid ground.

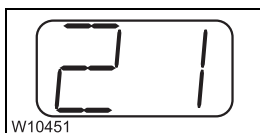
– **Drive of the second axle line**

For off-road driving, you can also switch on the drive of the second axle line together with the longitudinal differential locks in the transfer case and the fourth axle line.

However, you must not use the drive of the second axle line or the longitudinal differential locks on firm ground.

– **Transverse differential locks in all driven axle lines**

The transverse differential locks in the driven axle lines prevent the individual wheels spinning when driving on slippery ground. (Must not be used on firm ground or when cornering!)



In order to switch on the longitudinal or transverse differential lock, you must switch on the *Level adjustment system* key-operated switch. When the key-operated switch is on, the second gear is always selected as the highest gear.

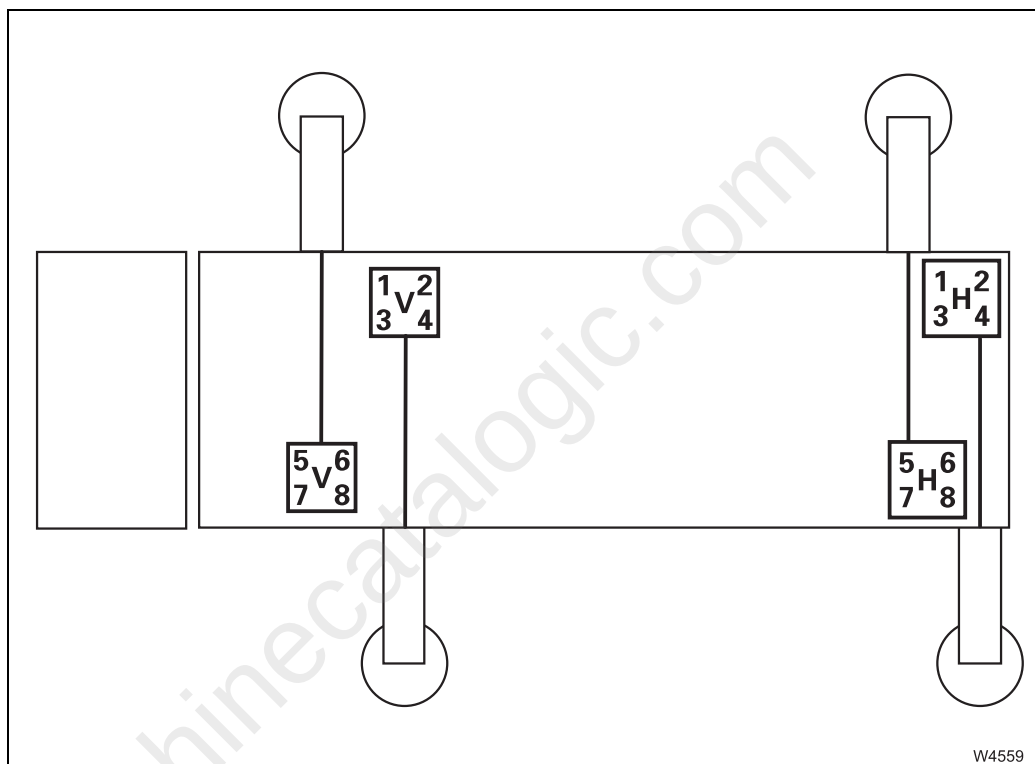


Risk of accidents during outrigger operations outside your field of vision

You will not be able to monitor the movement of the outrigger beams as you are on the opposite side of the truck crane. Have a helper monitor the movements of the outrigger beams and ensure you have visual contact with that person.

All the buttons are numbered in the following diagram. Which button you must push for the desired motion (extending or retracting) of the outrigger beams

and outrigger cylinders can be found in the table on the next page.



The front left valve block (V 5 to 8) is installed on edge. Therefore, the buttons are not all on a level but rather in pairs over each other. The buttons 6 and 8 on the truck crane are above the two buttons 5 and 7.

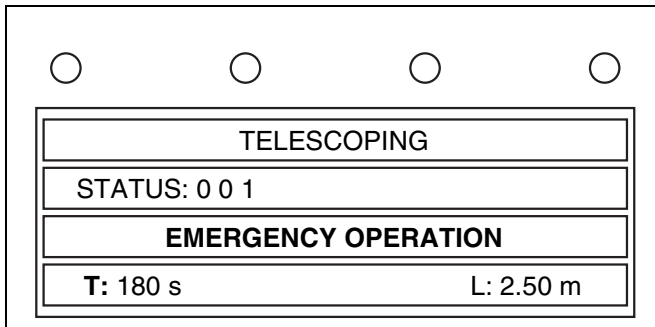
15.5.6

Emergency operation submenu

Emergency operation allows you to retract the main boom for on-road driving, so that the machine can be driven to a location to be repaired.

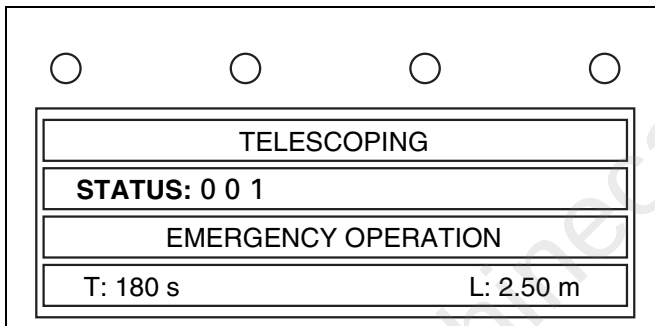
Emergency operation mode is not intended for crane operations and is therefore restricted to a certain amount of time.

Emergency operation is started only when the respective error message has been confirmed, followed by entry of the correct key code in the *Access emergency operation* submenu.



You can recognise the submenu by the entry **EMERGENCY OPERATION** in the third line.

The remaining running time is displayed on the left in the fourth line (e.g. **T: 180 s**). When the time has run out, the display switches back to the *Access emergency operation* submenu and you can re-start emergency operation.



The three-digit code number (e.g. 001) after the entry **STATUS** in the second line indicates which error the crane control has detected.

Deciphering the number code

- 0 0 1: – Length indicator defective
- 0 1 0: – Proximity switch is defective, or signals received regarding the locking statuses are unrealistic
- 1 0 0: – Error has been detected on a valve for the locking mechanism

When multiple errors occur simultaneously, all errors are displayed at once with a 1 at the corresponding position.



If a code number has **1** as the first digit (e.g. **1 0 0**), the locking and unlocking mechanisms can no longer be moved. In this case, consult **CraneCARE**. If this error occurs, the main boom can only be retracted using the mechanical emergency operation, as described in the operating instructions.

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Grove GMK 6220L All Terrain Crane Operator Manual

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