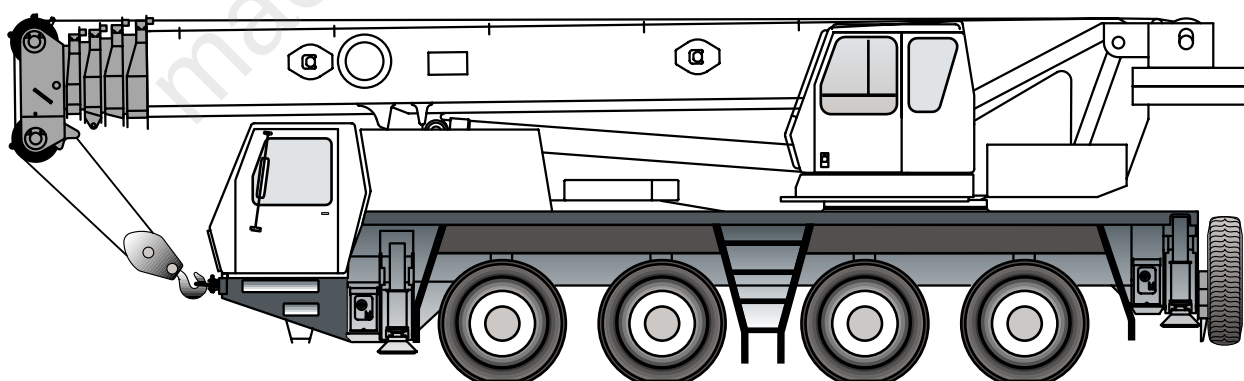


**GROVE**

**GMK4075**



## Maintenance Manual

Vehicle serial number:

2 084 643 en  
02.07.2001

# 2

## Safety and environmental protection

### Safety rules

When carrying out maintenance work, it is imperative that you observe the applicable **accident prevention regulations**.

The following instructions are general safety rules for maintenance personnel:

- Familiarize yourself with the truck crane and its operation.  
Read the operating instructions carefully and request guidance from crane operator.
- Do not carry out maintenance work unless you are authorized to do so.
- Observe all safety and warning signs on the truck crane.
- Observe all safety instructions contained in this maintenance manual.
- Familiarize yourself with the conditions under which the superstructure may be slewed and the boom may be extended into horizontal position.
- Do not carry out maintenance work unless the truck crane is standing on flat, stable ground and is prevented from rolling.
- Keep all handles, steps, landings and ladders free of dirt, grease, snow and ice.
- Use the proper access aids and working platforms when carrying out overhead work. Wear a harness when carrying out maintenance work high overhead.
- Walk only on those machine parts which are equipped with appropriate steps and railings and therefore guarantee safety. During rigging and maintenance work on machine sections above body height which have no apparatus for accessing, always use the supplied extension ladder (e.g. when lubricating telescopic slide faces).
- Perform maintenance work only after the truck crane has been shut down. Always ensure that the truck crane is protected from unauthorized operation before beginning maintenance work. Remove the key and put up warning signs.



## Changing the fuel filter cartridge

M 12

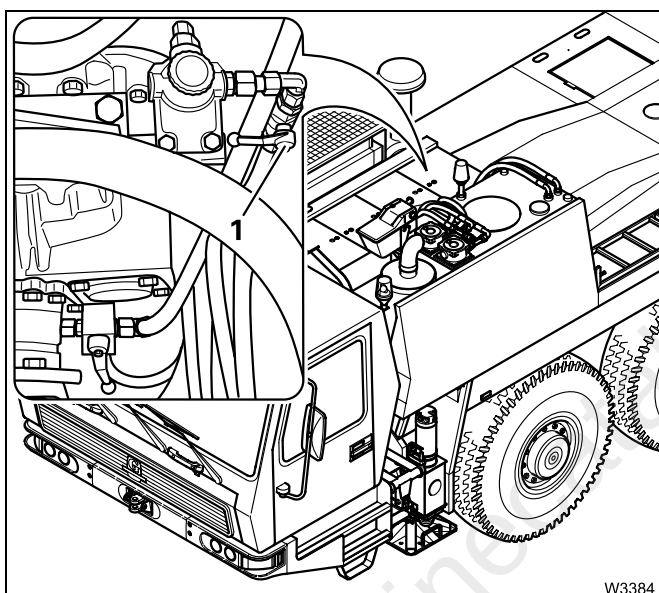
### Shutting off and emptying the fuel line

Before changing the fuel filter cartridge you must:

- shut off the fuel line to the diesel tank and
- empty the fuel line



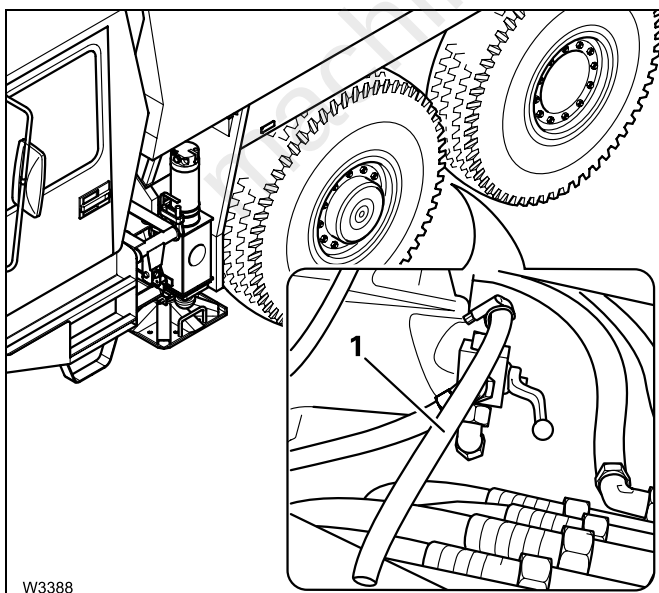
Always use a fuel-resistant container with sufficient capacity into which the fuel line is emptied. Make sure that no fuel runs out and seeps into the ground.



### Shutting off the fuel line

A shut-off valve is in the fuel line under the carrier's rear cover on the right hand side next to the automatic gearbox.

- Close the tap. Turn the handle (1) so that it is perpendicular to the fuel line.



### Emptying the fuel line

The fuel line is emptied via a hose pipe. The end of the hose line (1) is to the right beside the automatic gearbox.

The hose is accessible through an opening in the base plate of the carrier frame.

- Slightly cramp the steering.
- Guide the hose through an opening in the base plate.
- Place a container suitable for collecting fuel (e.g. a drip pan) underneath the end of the hose (capacity approx. 5 l).



The following tables show the number of wire breaks, in a length 6 times and 30 times the rope diameter, at which the rope must be replaced, for the most common rope diameters.

| Number of load-bearing outer wires | Number of visible wire strand fractures |           |          |           |           |           |           |           |           |           |
|------------------------------------|-----------------------------------------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                    | Crosslay rope                           |           |          |           |           |           |           |           |           |           |
|                                    | Ø 13 mm                                 |           | Ø 16 mm  |           | Ø 19 mm   |           | Ø 22 mm   |           | Ø 24 mm   |           |
|                                    | on 78 mm                                | on 390 mm | on 96 mm | on 480 mm | on 114 mm | on 570 mm | on 132 mm | on 660 mm | on 144 mm | on 720 mm |
| 101-120                            | 5                                       | 10        | 5        | 10        | 5         | 10        | 5         | 10        | 5         | 10        |
| 121-140                            | 6                                       | 11        | 6        | 11        | 6         | 11        | 6         | 11        | 6         | 11        |

| Load-bearing outer wires (Quantity) | Number of visible wire strand fractures |           |          |           |           |           |           |           |           |           |
|-------------------------------------|-----------------------------------------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                     | Lang's lay rope                         |           |          |           |           |           |           |           |           |           |
|                                     | Ø 13 mm                                 |           | Ø 16 mm  |           | Ø 19 mm   |           | Ø 22 mm   |           | Ø 24 mm   |           |
|                                     | on 78 mm                                | on 390 mm | on 96 mm | on 480 mm | on 114 mm | on 570 mm | on 132 mm | on 660 mm | on 144 mm | on 720 mm |
| 101-120                             | 2                                       | 5         | 2        | 5         | 2         | 5         | 2         | 5         | 2         | 5         |
| 121-140                             | 3                                       | 6         | 3        | 6         | 3         | 6         | 3         | 6         | 3         | 6         |



The number of visible wire breaks indicated here only applies to the hoist ropes! This information only applies to the initial equipment and original spare parts!



Remember that other factors may also make it necessary to replace the hoist rope before the number of wire breaks requiring rope replacement has been reached (age of rope, frequency of use or exceptional loading).

## Full Version Available

### Grove GMK 4075 All Terrain Crane Maintenance Manual

Grove GMK 4075 all terrain crane maintenance manual covering intervals, lubrication, fluids and inspections. 212-page English PDF. Instant PDF download.

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