

MANNESMANN DEMAG Baumaschinen	PREFACE	8717c-01
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Part 2: Operation manual for the crane chassis

For you,

the operator, we have compiled the most important instructions for travelling with the crane on the road and for operating the other travel functions in this manual. You should keep the manual at hand in the operator's cab.

When reading this manual, please remind that

- your SAFETY and
- the operational SAFETY of the DEMAG crane

depends on whether or not you follow these instructions.

In case you find any errors, or if you would like to make any suggestions or remarks, please contact the following address:

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The editorial staff will appreciate your cooperation

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MANNESMANN DEMAG Baumaschinen	OPERATING THE RESILIENT HYDRAULIC	9824c-06 7
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7.3.2 Draining

(Z 10 198, Z 22 806, Z 10 676, Z 10 199)

If the rated pressure was exceeded when filling the system, the system must be partly drained. Proceed as follows:

1. Open the shut-off cock of the corresponding circuit (I - IV).
2. Open the main shut-off cock (IX) for a short time and then close it again.
3. Open the check valve (6).
4. Read off the actual pressure in the corresponding resilient circuit at the pressure gauge and compare it with the corresponding rated value.
5. Close the check valve (6) again.

Repeat steps 2. - 5. until the correct hydraulic pressure is reached.

6. Close the shut-off cock of the corresponding circuit (I - IV) again.

If required, the entire procedure can be repeated for each of the remaining resilient circuits.

If all resilient circuits have been correctly adjusted by means of the pressure gauge, the adjustment must be checked by means of the indicators (I) and the colour marking at the resilient cylinders.

AFTER DRAINING

- Make sure that the shut-off cocks (I), (II), (III), (IV), (IX) and (6) are closed again.

 MANNESMANN DEMAG Baumaschinen	SAFETY INFORMATION	3004C-04 1
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- During all crane movements the driver must observe above all the load, the empty lift, the load carrying body and the boom tip.
- Keep the working equipment away from all electrical overhead lines.
- Should the crane come into contact with an electrical overhead line, then the cabin may not be left until the current is switched off.
- People who are close by must be warned so that they do not come too close to the crane.
- Slanted pulling and dragging of loads is forbidden during crane operation!
- The superstructure may only be turned when the crane is stabilized.
- Adjust correctly the load limitation always according to the erection conditions of the crane (comparison chapter 12, "Operating the Safety Equipment").
- Turning the superstructure in the overload range (the load moment limiting has switched off) is universally forbidden.
- The assembly and the disassembly of the crane equipment should only be carried out by people who were trained to do this.
- Persons are not permitted to be taken along on the crane nor are they allowed to be transported with the working equipment.
- The crane may only be entered or left after information of the crane driver and only when the crane is standing still.
- Do not jump off the crane. Use the ladder and grab handle.
- The doors must be secured against slamming shut resp. slamming open by locks.
- Before turning off the crane remove it from slopes and the edges of ditches.
- If the crane is to be parked on sloping terrain, the moving mechanism must then be secured by chocks, the rotary brake must be locked and the boom must be secured.

MANNESMANN DEMAG Baumaschinen	OPERATING THE SAFETY EQUIPMENT	4997c-05 12
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12.3 Device for checking the load (Z 20 855)

Via selector switch (33) you may check 3 different load states, depending on the position of this switch. The respective load is indicated on the digital display (81 - Z 17 625).

Attention !

The device for checking the load must not be used to determine the exact weight, but only for checking previously determined load weights in order to ensure an improved assessment of the load hoist and to avoid possible hazards.

The possible positions of selector switch (33):

1. Position neutral (standard position) (Z 17 625):

a) digital display (81) is NOT blinking

indication of gross load = total weight including weight of load suspension devices

b) digital display (81) is blinking

indication of net weight (see also 2.

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MANNESMANN DEMAG Baumaschinen	HYDRAULIC SYSTEM	4029c-04 5.8
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5.8.4 Hydraulic oil - replace

For the oil change the crane should be standing horizontally and the superstructure should be turned so that the oil can run off in order to be caught in prepared receptacles. The oil should be warm.

Close tank plug (1). (Z 10414)

Unscrew the hose assembly (2) (Z 6604) and lock through cap; screw on new hose.

Hold the hose in a prepared barrel. Open tank plug and drain oil. (Z 10415)

Unscrew the drain plug on the tank bottom (Z 6526) and let the sediment drain off.

Clean the drain plugs and insert new seals. After all the oil is drained out clean the hydraulic oil tank.

Screw on the drain plugs again, lock the tank plugs and screw off the hose. Then screw on the hose assembly again and fill in hydraulic oil.

Note:

Fill the hydraulic tank to the upper marking (= nominal filling height). This marking is valid at room temperature (approx. 20 °C) and for the case that all cylinders are drawn in.

Attention!

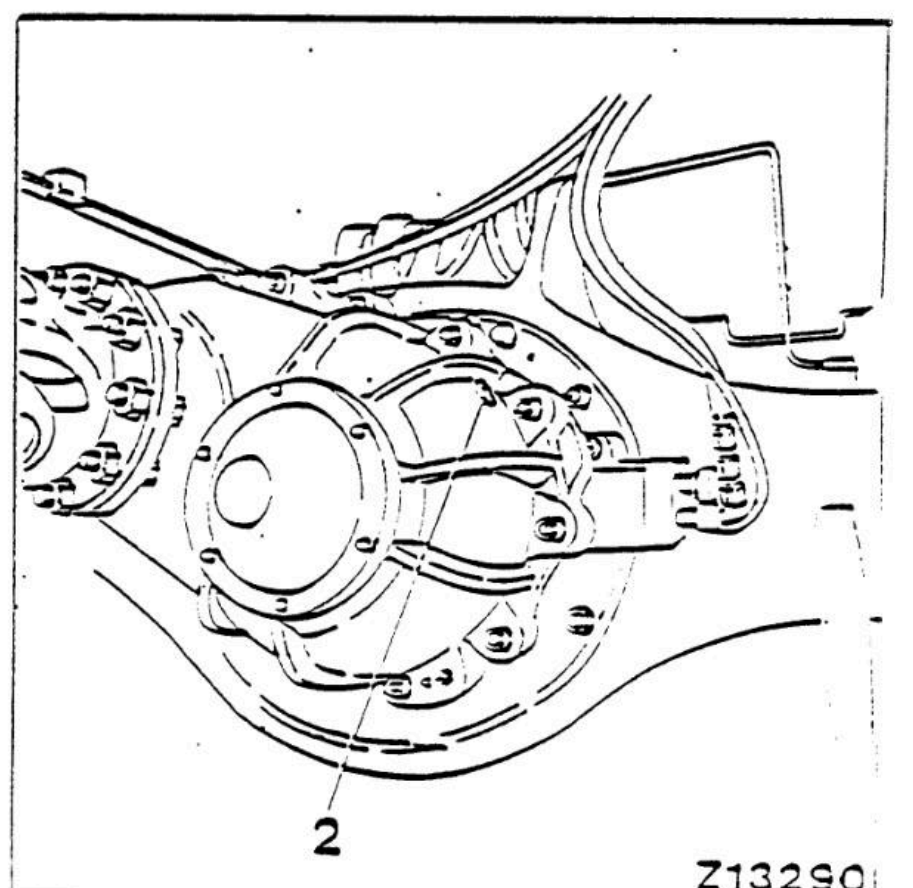
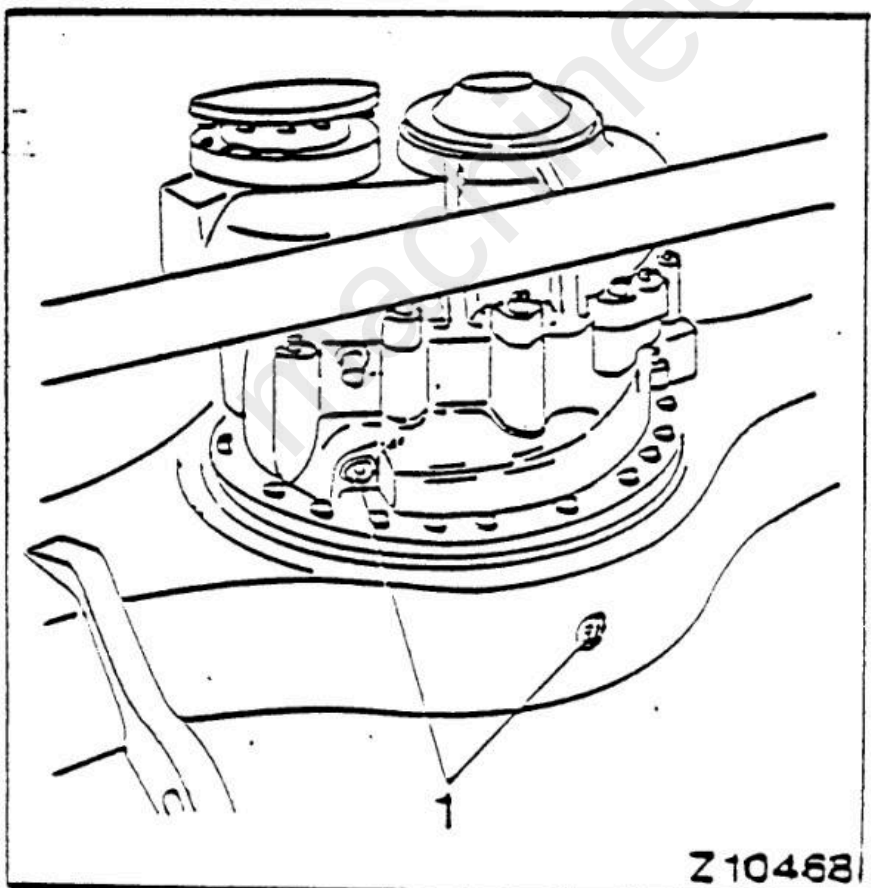
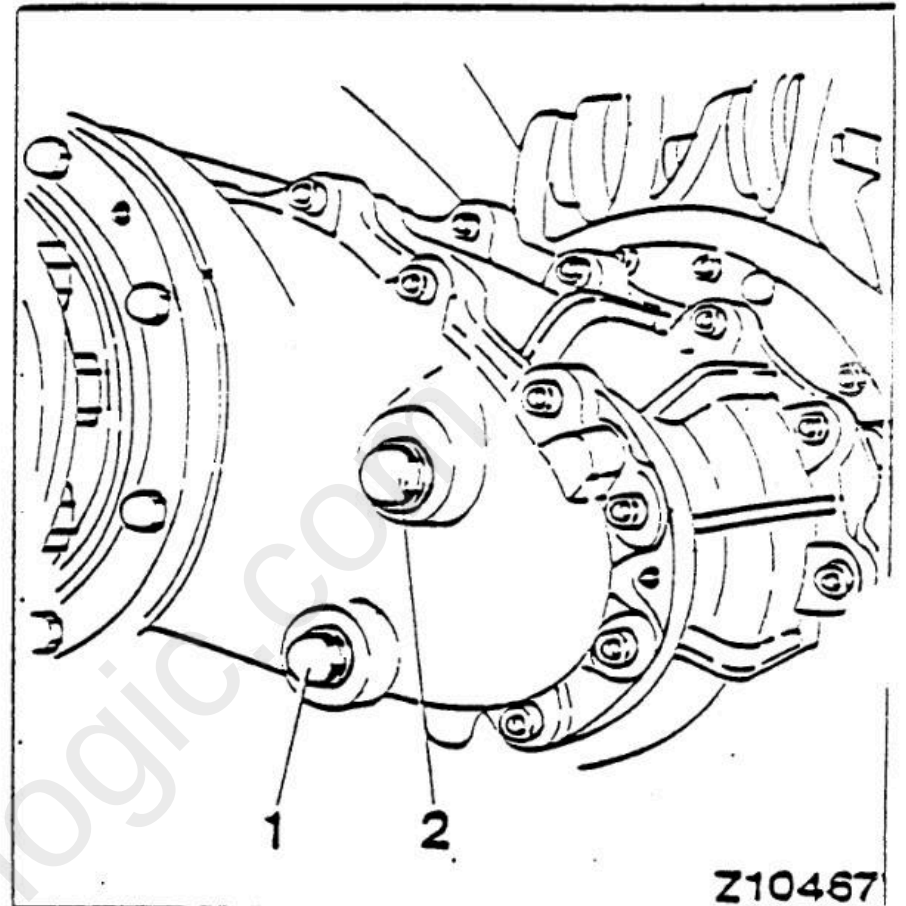
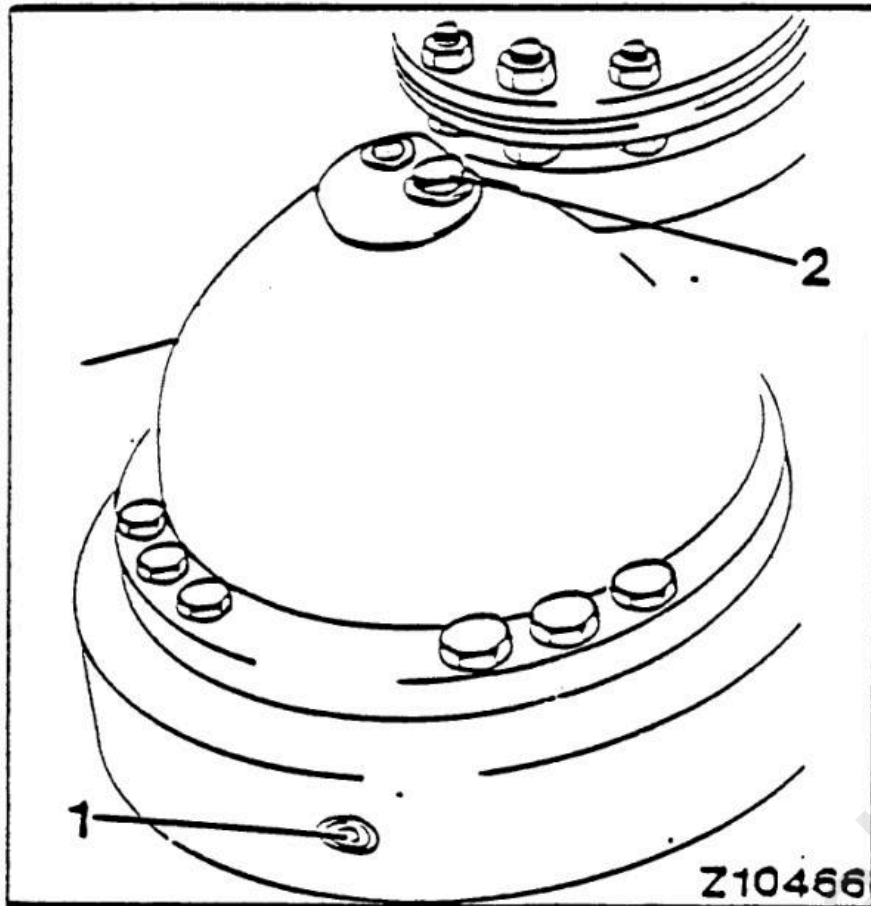
The lower marking (= minimum filling height) may not be fallen short off, even when all cylinders are drawn in. Otherwise the hydraulic pumps could be damaged.

Before commissioning open the tank lock again.

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5.4

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