

AC100/4



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5.2 Starting

5.2.1 Before Starting

(Z 53 438)



Before operating the engine for the first time, the operating instructions of the engine manufacturer for the diesel engine OM 904 LA must be observed. These are enclosed in part 5 of this documentation.

The following points are primarily limited to information which specifically affects the crane.

1. Check before starting:

- the hydraulic oil level
- the engine oil level
- the coolant level.

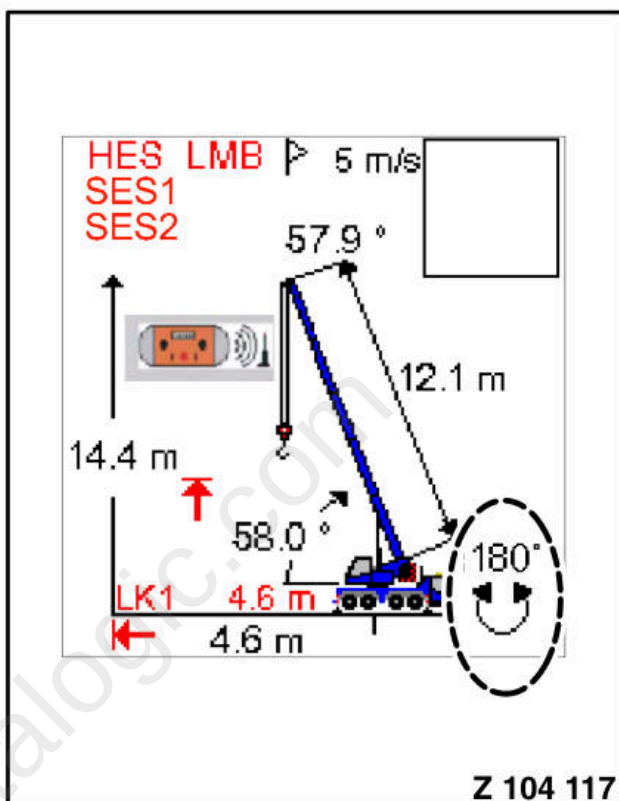
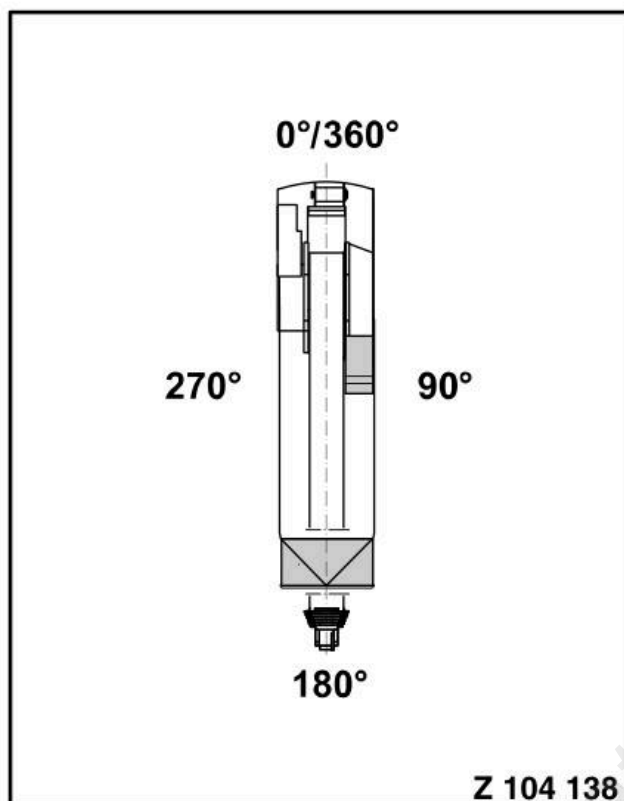


To proceed, observe the corresponding sections of the maintenance and lubrication instructions of the superstructure.

- the fuel level on the fuel gauge (5).



The display on the fuel gauge (5) is only correct when the ignition in the crane chassis is switched off.



11.4.3 Ambient Conditions

- Load Capacity of the Ground

The load capacity of the ground must be sufficient in order to absorb the maximum occurring support pressures. If necessary, increase the support area by stacking suitable materials under the outrigger plates.



Details on the maximum occurring support pressures and calculation of the required ground contact surface can be found in section 12 "Outriggers" of the operating instructions of the crane chassis.

- **no** live wires or cables in the operating area of the crane.
- **no** obstacles which hinder the necessary crane movements. Maintain sufficient safety clearances in order to prevent the risk of crushing (e. g. on the counterweight).
- Location selected so that the crane operation can be carried out with as low a working radius as possible.
- If there is bad visibility or darkness directly in front of the crane operator's cab, illuminate the outriggers and the winches using spot lights which are on the machine (rear outside lighting, front outside lighting, side outside lighting) (see section 4 'Crane operator's cab' of the superstructure operating instructions and section 4 'Driver's cab' of the chassis operating instructions).
Other surrounding areas (load, load path, slewing range, driving path, and similar) must be lit using suitable means, independent of the crane. This is the responsibility of the crane operator.

17.2 Load Lifting Equipment

(Z 52 210)

If a load is to be raised with the crane, so-called **load lifting devices** are required to raise the said load. These are:

- **Carrying equipment**
Carrying equipment is permanently connected to the crane. This includes:
 - Hoist ropes (1, see section 17.2.1)
 - Hook block (3, see section 17.2.2).
- **Load-handling devices**
Load-handling devices are equipment, for example lifting beams, that are not part of the crane. They are connected to the carrying equipment and take up the load.
Its selection and safe operation lies within the responsibility of the crane operator.
- **Lifting tackle**
Lifting tackle is equipment, for example sling ropes, that does not belong to the crane. It connects the carrying equipment and load or carrying equipment and lifting devices.
Its selection and safe operation lies within the responsibility of the crane operator.



To ensure that the load-handling equipment is used correctly the individual national regulations, for example the accident prevention regulation “Load handling equipment in hoist operations” (VBG 9a / BGV D6)” must be observed.

21.6 Operation

(Z 104 020)

1. Fit the head sheave in the operating position, fit the hoist limit switch with the accompanying shift weight, connect the head sheave electrically, reeve the hoist rope, pin the hook suspension gear in place and then fit the shift weight to the hoist rope.

This is described in detail in section 21.3 'Folding from the transport to the operating position' (from page 7).

2. As the head sheave is operated in the operating mode "Main boom",  must be selected under(1) in the relevant mask of the IC-1 under type "HA".

3. Set the reeving to "1" ().



Risk of accidents!

The head sheave is only permitted to be operated with single-strand lines!

4. Select all other parameters in accordance with the actual crane configuration, which must correspond to the relevant load capacity table.



You will find details on operating mode selection in section 10 "Safety devices".

(Z 104 258, Z 104 259, Z 104 252)



During reeving, there is a risk that all involved sheaves become wrapped and wound up. Proceed with appropriate caution!

4. Feed hoist rope to the sheave (R1) of the runner via intake sheave (E2).



Risk of damage to the rope!

The rope may not be fed via intake sheave (E1) as this would make the deviation angle of the hoist rope too large.

5. Reeve the hoist rope in accordance with the desired reeving. Reeving of the hoist rope can be up to 4-fold over the runner (Z 104 252).
 - E – Intake sheaves on the main boom head
 - R – Sheaves on the runner
 - U – Hook block pulleys
 - F_R – Fixing point on the runner
 - F_U – Fixing point on the hook block
6. If a second hoist limit switch is not used: Fasten the hoist limit switch of the main boom head on the right-hand side of the runner frame in point “L” and secure against falling out (Z 104 259).
7. Loosen the shift weight (64A) of the hoist limit switch on the runner out of the transport position. (To do so: remove the locking spring (66A)).
In order to minimise wear, the shift weight (64A) is fitted to the resting rope end or to the rope end with the lowest rope speed (see section 17).

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