

Manufacturer's Specifications

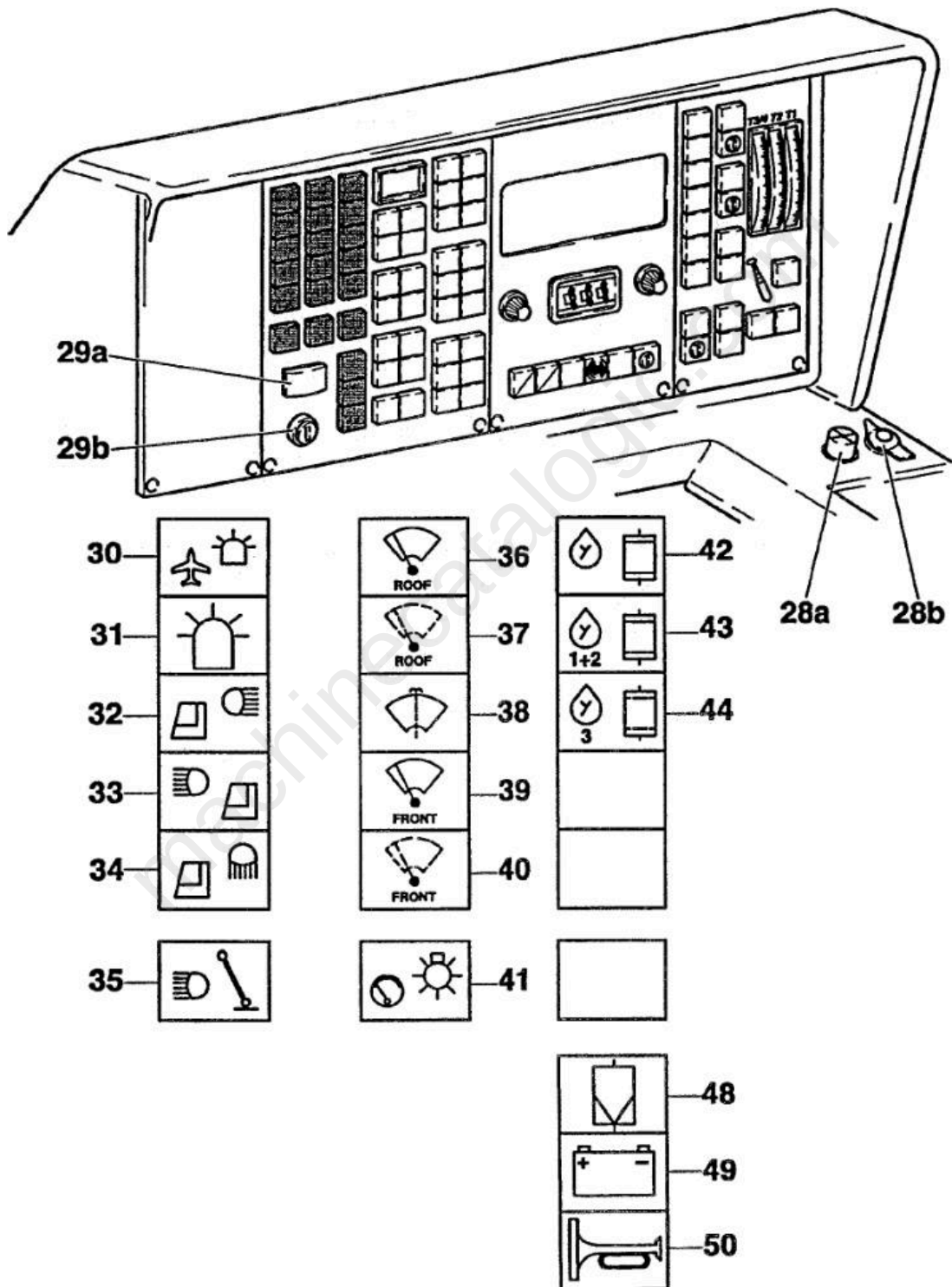
These operating, lubrication and maintenance instructions are valid for the mobile crane described below.

Crane classification (in accordance with DIN 15018 T3)	Heavy duty mobile crane
Crane type	AC 435
Construction number	37 232
Maximum load	160 t
Manufacturer	Mannesmann Demag Fördertechnik Mobile Cranes

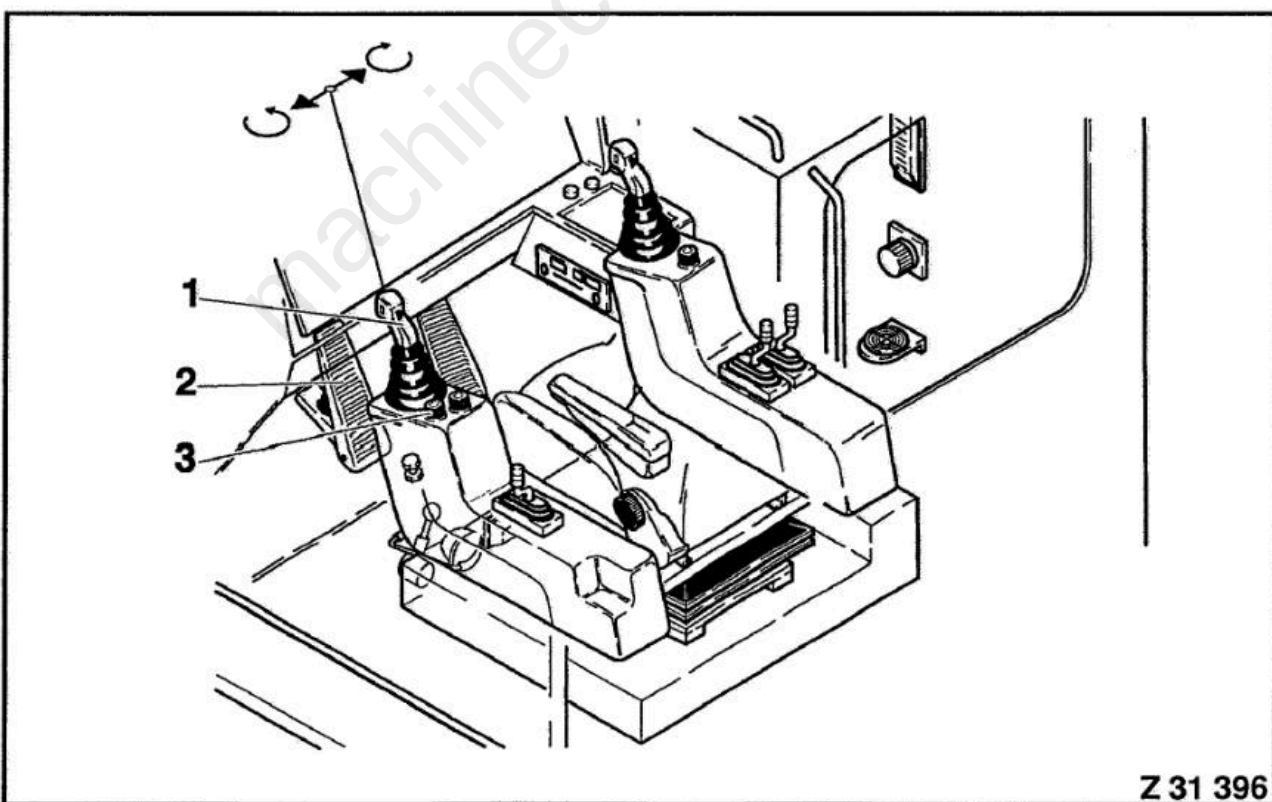
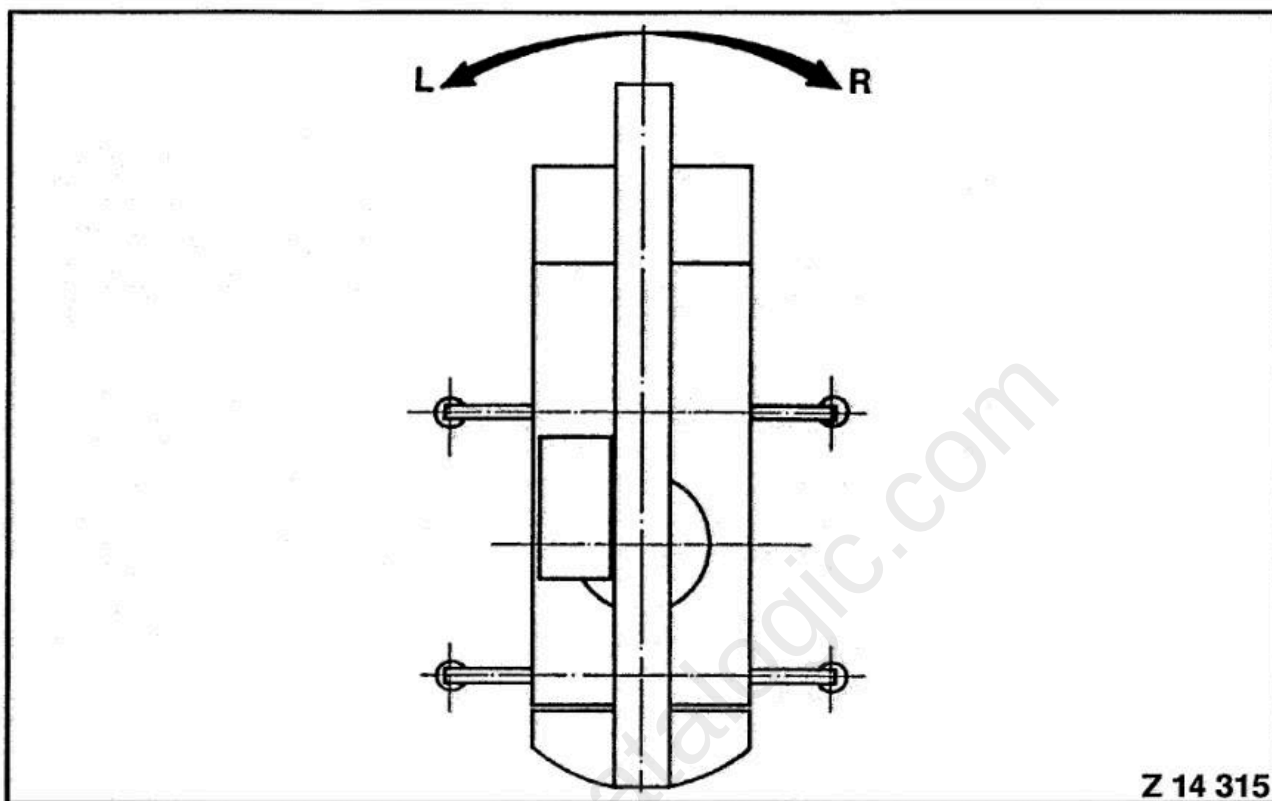
2.3 Superstructure

(Z 22 314)

- (1) Main boom
- (2) Crane operator's cab
- (3) Superstructure frame
- (4) Counterweight
- (5) Slew ring
- (6) Luffing cylinder
- (7) Slew gear
- (8) Air filter
- (9) Diesel engine
- (10) Engine radiator
- (11) Hydraulic pumps
- (12) Rope drum (hoist 1)
- (13) Batteries
- (14) Rope drum (hoist 2)
- (15) Expansion tank for engine coolant
- (16) Hydraulic tank
- (17) Fuel tank
- (18) Exhaust system
- (19) Switch box



Z 29 156



(Z 29 187)

The danger of the load limit device being influenced by the effect of high-frequency radiation is minimised by state of the art technology (shielding). This cannot, however, be ruled out completely, in particular under extreme conditions, for example near high-power transmitters.

The load limit device used is an **operating aid**. It supplies the crane driver with important information regarding crane data, for example, length and angle of the boom etc. and warns the crane driver when an overload situation may be imminent and when the hook block is approaching the boom head.



This safety equipment does not replace good judgement and experience on the part of the crane driver or the use of recognised safe operating procedures when using the crane.

The crane driver is not exempted from assuming full responsibility for the safe operation of the crane.

It is absolutely essential for the safe function of the crane that the load limit device is operated only in its original condition. Breaking or damaging the seal at the central unit of the load limit device will invalidate the "General Operating Permit".



Crushing may occur.

Despite the use of automatic safety equipment, the load cannot always be prevented from swinging when switching off.

This must only be prevented by suitably accelerating or carrying out movements at suitable speeds.

To ensure that the hoist limit switch on the main boom head functions correctly, the shift weight must be suspended freely and the hoist limit switch must not be bridged.

Ensure that the red flag is inserted in the active position. Proceed as follows:

Dismantling and Storing the Hoist Limit Switch Retainer (Z 29167, Z 29 168)

1. Pull the cable out of the switch [1], then bend back parallel to the boom and hold in this position [2].
2. To remove the retainer, move downwards [3] and then to the left [4]. Release the cable.
3. For storage slide the retainer from right side over the hoist limit switch [5] until the clips (A) lock into the holes (B) of the hoist limit switch.



The procedure for crane operation with equipment (e.g. main boom extension) is described in the corresponding Section.

(Z 28 557)

19. Fold the rail back into the transport position and pin lock.

(Z 26 152)

20. Release rope fixing point (4) and shift weight (8) from the transport position in the head of the main boom extension.



Check that all pins and their locking devices are securely in place.

The locking springs of the fixing point must not be inserted on the extension. They must be placed in the toolbox.

21. Reeve the hook block or hook suspension gear (see Section 17.2).

22. Set the load limit device according to the current configuration of the crane (see documentation provided by the company PAT).

Indicator light (101) comes on.

19 Attaching and Removing the Luffing Fly Jib (Z 22 628)

19.1 Before Attachment



Erecting and dismantling, and crane operation with the luffing fly jib, are only permitted when the crane is supported on outriggers.

Set the computer of the load limit device to "Main boom operation" using mode switch (83) (see load table for code no.).

Fit the counterweight required for operation with luffing fly jib as stipulated in the load tables (see Mounting the Counterweight, Section 9).

The superstructure must be slewed such that the boom is positioned to the side or rear.

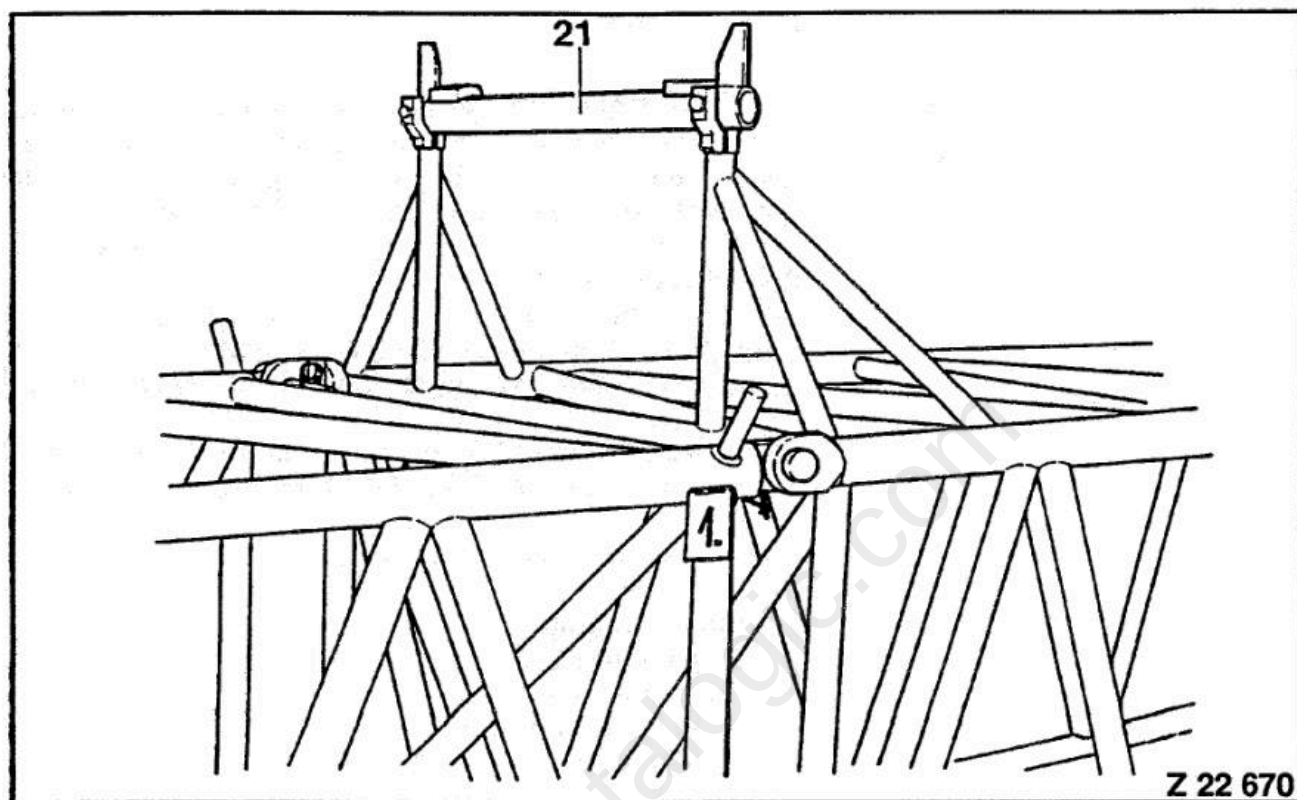
Ensure that the tubing on the lattice mast sections of the fly jib has not been damaged. If damaged tubing is discovered during visual inspections, further operation of the fly jib is prohibited.

Also observe, in particular, the safety instructions given in Section 1.4.8, "When Mounting and Dismantling Crane Components".



The luffing fly jib is marked with the crane construction number. It may only be fitted on the crane of this construction number.

Exceptions are made only when this is expressly stated in the crane documentation (e.g. crane log book).



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