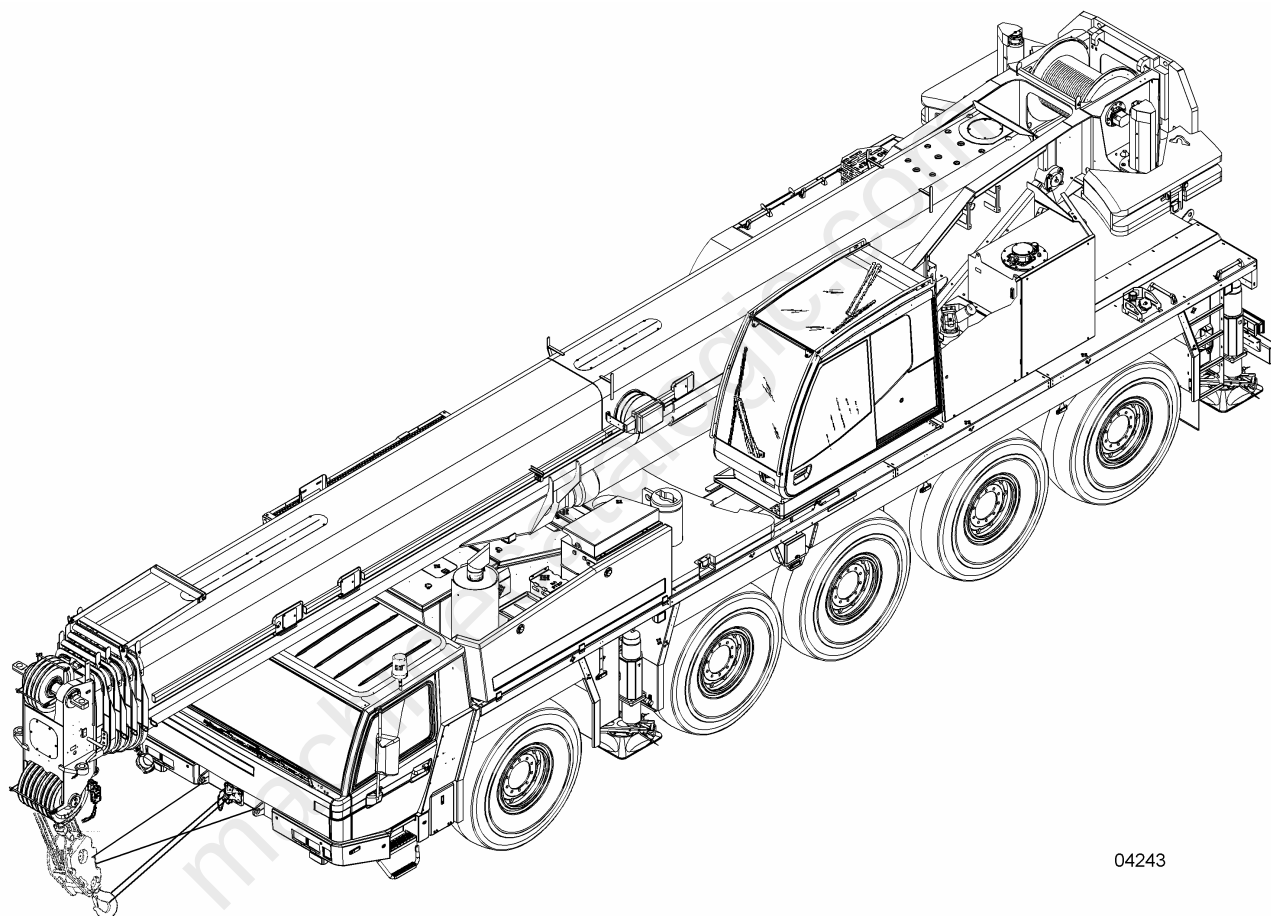


Operating, Service and Maintenance Manual

ATC-3130 II



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Attention

Read this manual before operating. Keep this manual in the crane carrier cab for future reference.

Vehicle identification no: WFN5 RUE R1 72035239

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3.7 Superstructure frame

Torsion-resistant welded structure with single-race ball-bearing slewing device with external gearing, rotating through 360°.

Central lubrication system for ball-bearing slewing device, boom elevation cylinder and boom basic bearing as well as main and auxiliary winch.

Storage area behind the cabin.

3.8 Safety equipment

Safety valves for protection against hose and pipe ruptures, rope winch limit switch for safety rope windings on the hoist drum.

3.9 Electrical equipment

24 V DC system with 30 A three-phase generator, 2 batteries, 12 V, 110 Ah each, 1 rotary beacon on the rotary platform, on the rear left side, near the hoisting gear, 2 working floodlights integrated in the superstructure cabin, 1 working floodlight on the basic boom, 2 lateral lights on the boom head.

3.10 Electronic automatic safe load indicator (ASLI)

Electronic automatic safe load indicator with graphic LCD display. Shut-off on overload, overload warning feature, safe load utilization indicator.

Work range limitations for telescope boom angle, height of pulley head and work radius. Digital displays for work radius, actually attached load and maximum admissible load, tare indication, boom length, boom angle, height of pulley head, telescope configuration (in percent of telescope extension length), as well as tele / cylinder locking condition. Automatic reduction in limit areas, operator-dependent selection of the motion speeds (precise control range).

Hoist limit switch, anemometer on the main boom pulley head, can be removed and placed on the pulley head of the jib.

3.11 Superstructure cabin

Crane cabin (extra-large and optimized ergonomically speaking) in steel / plastic design with sliding door, safety glass with tinted panes, electrically actuated hinged windscreen, glued-in skylight made of bullet-proof safety glass, and hinged backlight.

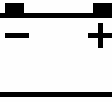
To ensure an optimum vision during crane work, the work place can be tilted progressively via the LINK-BELT inclination technique integrated in the cab. It features an adjustable, hydraulically damped driver's seat with headrest, mechanically adjustable lumbar support, windshield wiping and washing system for windscreen and skylight, windshield wipers with interval circuit, hourmeter, sun visor, electric horn, radio with CD player, 12V terminal, e.g. for interphone system.

Display to facilitate monitoring of e.g. fuel level and hydraulic oil temperature, vehicle voltage, superstructure locking mechanism and engine monitoring.

Actuation of outrigger and chassis engine functions possible from the superstructure.

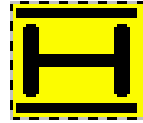
Single-key system for driver's cab and cabin doors, tank locks in superstructure and chassis, as well as steering lock.

cont'd.: 6.1.1 Start screen

	Button no. 8 (active in each screen): → Exit active screen.
	Keep button no. 8 pressed for about 6 seconds (active in each screen): → Standard adjustment for display contrast and brightness.
 	Actuate button no. 14: → Switch working floodlights at the outriggers ON or OFF. If the working floodlights are switched on, the symbol "working floodlight" appears inverse.
	Actuate button no. 18 → To the main menu → refer to item 6.1.2.
	Connection to CANBUS has been interrupted. Outrigger functions are no longer available The error code is displayed by the Control and Graphic System installed in the driver's cab. If necessary, take the vehicle to the LINK-BELT after-sales service to have the troubles eliminated.
	Generator Insufficient voltage of vehicle battery. If the vehicle voltage drops (even briefly) below 18V, the symbol lights up for the duration of the voltage drop, at least however for 20 seconds.

5.1.2 Axle suspension lock indicator lamp

The axle suspension lock is switched on as the key-actuated change-over switch in the chassis (part B1-11, item 50) is turned from position 1 to position 2. During superstructure operation, the symbol " axle suspension lock engaged " (refer to LINK-BELT Cockpit Graphic Control System, part B2-3) is lit all the time.



DANGER

If the symbol "axles locked" goes out and the symbol "axle suspension activated" appears during crane work, crane work must be interrupted immediately, the reason for the malfunction must be located and eliminated.



5.1.3 Indicator lamp "axles lifted"

During superstructure operation, the symbol "axles lifted" (refer to LINK-BELT Cockpit Graphic Control System, part B2-3) is lit all the time.



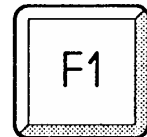
DANGER

Crane operation is only admissible with the axles lifted. If the symbol "axles lifted" goes out during crane work, work must be stopped immediately, the reason for the malfunction must be determined and eliminated.

5.2 Starting the engine in the chassis from the superstructure

- Actuate key F1 (refer to part B2-3, item 3.1.1.3) "engine start, chassis" until the engine ignites. Do not actuate the starter for more than 20 sec.

After the engine has started, the red warning lamp 7 "central warning, CGC" goes out.



5.2.2 Stopping the engine in the chassis from the superstructure

- Return engine speed to idling level.
- Actuate the push-button F2 (refer to part B2-3, item 3.1.1.3) "Engine stop, chassis" or switch the rocker switch 13 "control, chassis" OFF; the engine comes to a standstill.

12 Instrument panel

12.1 Monitoring superstructure and chassis, driving**) and outrigger operation from the superstructure, ASLI control unit

12.1.1 Indicator, pilot and warning lamps

- Item
- 7 (rt) Central warning, CGC
 - 8 (rt) Service brake, superstructure**)
 - 9 (gn) Direction indicators, chassis**)
 - 10 free
 - 11 free

12.1.3 Other components

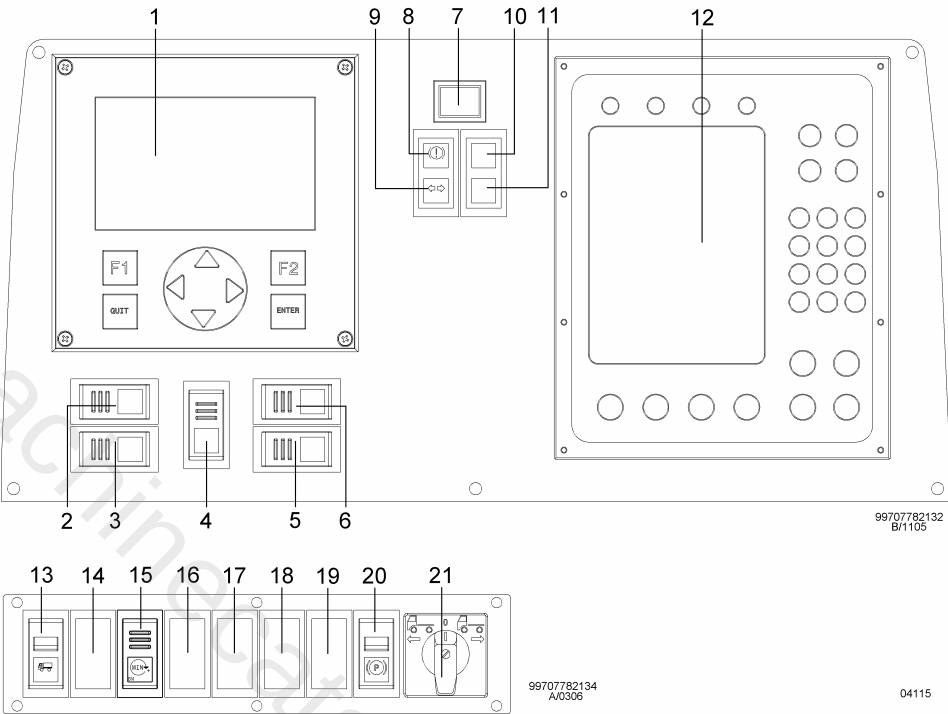
- Item
- 1 CGC indicator and control device
 - 12 LMB control unit

- Pilot lamps = (gn) green
Indicator lamps = (ge) yellow
(or) orange
(bl) blue
Warning lamps = (rt) red

12.1.4 Switches, rocker switches (WS), rocker tip switches (WT)

- 2 WT Extending/retracting outriggers, VL
- 3 WT WT - Extending/retracting outriggers, HL
- 4 WS Outrigger preselection
- 5 WT WT - Extending/retracting outriggers, HR
- 6 WT WT - Extending/retracting outriggers, VR
- 13 WS*) chassis control system engaged
- 14 free
- 15 WT Engine speed, chassis
- 16 - 19 free
- 20 WS*) parking brake, chassis**)
- 21 Rotary switch, control switch, gearbox, chassis**)

- UW = Chassis OW = Superstructure
WS = Rocker switch WT = Rocker tip switch
WS*) = Rocker switch with function lighting
VL = front, left-hand VR = front, right-hand
HL = rear, left-hand HR = rear, right-hand
CGC = Control and Service System
LMB = Automatic Safe Load Indicator



**) Optional equipment

15.4 Supplementary heater unit **)

For instructions on operation, service and maintenance of the heater unit, please refer to the documents of the unit's manufacturer. Make sure that the manufacturer's instructions are observed.

15.5 Engine pre-heating unit **)

For instructions on operation, service and maintenance of the heater unit, please refer to the documents of the unit's manufacturer. Make sure that the manufacturer's instructions are observed.

15.6 Cockpit-Grafik-Control System

DANGER Repair work may only be performed by qualified specialist staff. To replace parts or components, use only parts listed in the Spare Parts List. Unauthorized opening or inappropriate repair work may result in severe injuries or death, and considerable property damage.

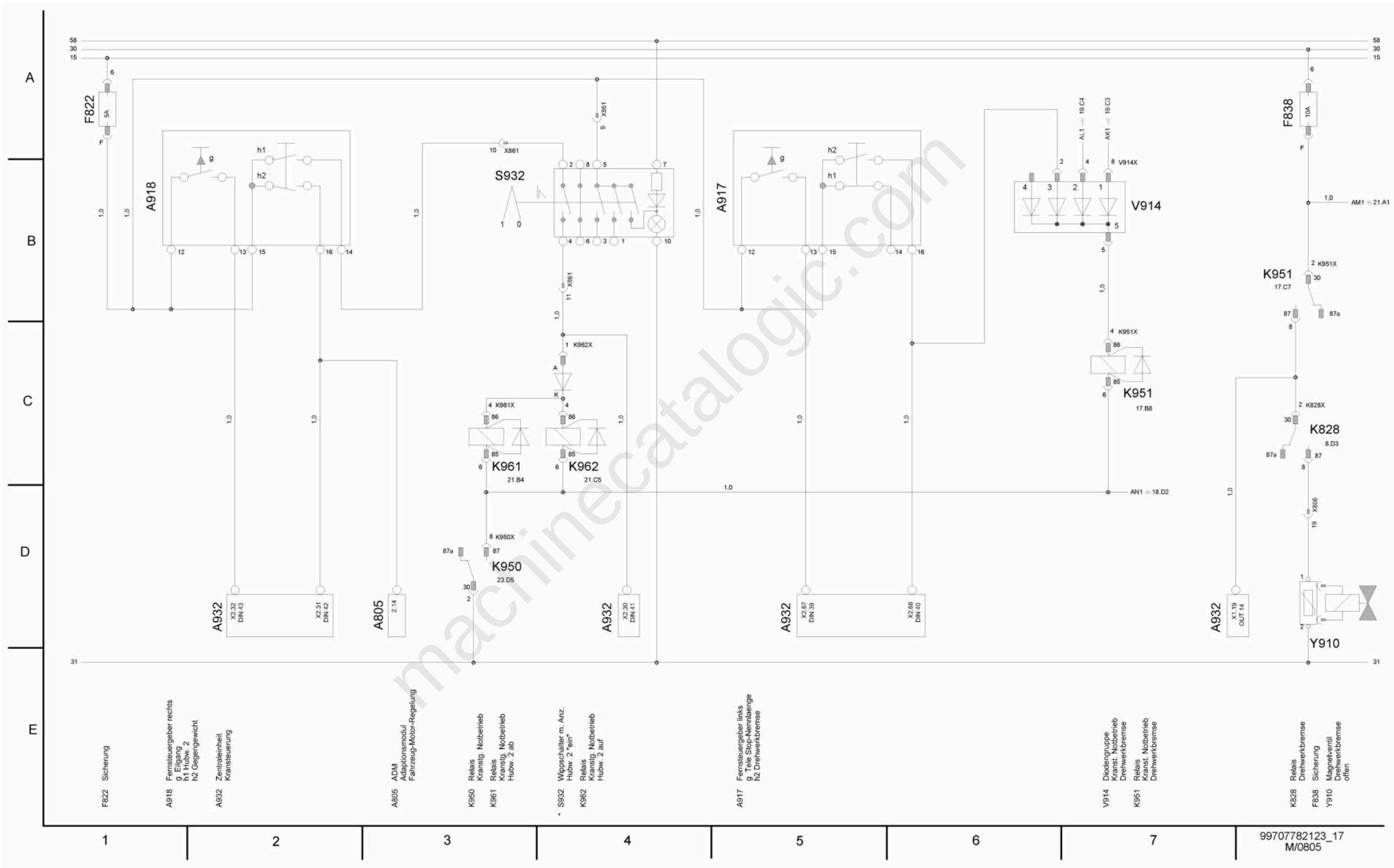
15.6.1 Monitor

The monitor of the Cockpit-Grafik-Control System should be cleaned at regular intervals, depending on dust accumulated, using a lint-free cloth.

The unit has been designed for a temperature range from **-40 to 185°F (-40°C to +85°C)**.
The monitor has been designed for a temperature range from **-4 to 158°F (-20°C to +70°C)**.

**) Optional equipment

(cont'd.) 1.3 Crane control (99707782123)



Operation

2.2 Setting off, forwards travel

- ⇒ Start the engine (see 2.1).
- ⇒ Turn rotary switch from « N » to « D ».
- ⇒ Automatic mode is activated.



013 178

- ⇒ The display shows the starting gear selected. (The system selects the starting gear itself, the clutch remains separated (disengaged))



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- ⇒ Depress accelerator and at the same time release the parking brake.



DANGER!

The vehicle may roll away even if the accelerator is not depressed.

- ⇒ Vehicle sets off (clutch closes automatically).

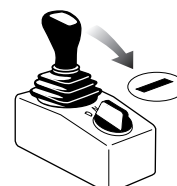
2.2.1 Correcting the starting gear

The driver may correct the starting gear selected by the system.

How to make a correction:

- ⇒ Press tip lever in the « - » or « + » direction.
- ⇒ The display shows the starting gear selected.

Console range selector



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2. IMPORTANT NOTES

The LMI is an operating aid to warn the crane operator of an imminent overload or proximity of the hook block to the boom head, in order to avoid possible damage to property or personal injury.

The system cannot be, and is not intended to be, a substitute for good judgement or experience on the part of the crane operator, or for the application of recognised, safe working methods when using cranes.

 ATTENTION

The crane operator is not released from his obligation to operate the crane safely. He must ensure that he fully understands and follows the notes and instructions displayed.

Before beginning work with the crane, the crane operator must carefully read and understand the entire Manual to ensure that he is aware of the operation and limitations of the LMI.

Proper functioning depends on due daily inspection and compliance with the operating instructions listed in this Manual. Please read section 5 of this Manual.

 WARNING

The LMI can only offer the crane operator help if it is correctly adjusted, and the correct load chart and the correct operating code have been selected for the particular rig arrangement. To avoid damage to property and serious or even fatal injuries to persons, it is essential to ensure that the LMI is correctly adjusted before beginning crane work.

 WARNING

This system can be equipped with an external key-operated switch which is located on the side of the housing of the central unit. This key-actuated switch bridges (overrides) the control lever's shut-off function by the LMI. This switch may only be actuated in emergencies by authorized personnel. Non-compliance with these instructions may lead to damage to property and serious or even fatal injuries to persons.

Full Version Available

Link-Belt ATC-3130 II All Terrain Crane Operator Manual

Link-Belt ATC-3130 II all terrain crane operator manual covering controls, safe operation, outrigger setup and care. 1,130-page PDF. Instant PDF download.

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