Overview of icons and operating elements

LRT 1090-2.1/LRT 1100-2.1

Status: April 2020

The purpose of this icon overview is to provide you with a quick overview of selected operating functions for your crane. It does not contain all operating, assembly, warning and safety information necessary to properly assemble and operate the crane. It is absolutely necessary to study the operating instructions before operating the crane in order to have a complete understanding about the operation, assembly, warning and safety information.
Overview

Operating and monitoring instruments
### Instrument panel

1. Warning light
2. Switch level 1: Parking light  
   Switch level 2: Low beam headlights
3. Rotating beacon
4. SCR system cleaning engaged*  
   Switch pressed on the top:  
   SCR system cleaning switched on  
   Switch in the middle position:  
   Automatic SCR system cleaning  
   Switch pressed on the bottom:  
   SCR system cleaning disabled
5. Indicator light: High beam / turn signal light

* depends on engine emission stage

### Climate control

1. Timer
2. Auxiliary heater crane cab / engine preheating*  
3. Automatic operation
4. Climate control system
5. Increase temperature
6. Decrease temperature
7. Increase fan speed
8. Decrease fan speed
9. Air distribution for head area
10. Air distribution for floorboard area
11. Front window defrosting
12. Recirculating air
13 - 15. Programming buttons timer

* optional
Ignition switch

1. Engine start / engine stop
2. Steering column switch
   - Low beam/high beam
   - Headlight flasher
   - Turn signal indicator (left/right)
   - Windshield wiper operation (0, interval, I, II)
   - Window washer system
   - Operation horn

Driving switch

1. Preselection of travel direction D: "Forward", in relation to the crane carrier
2. Preselection of travel direction N: Neutral position
3. Preselection of travel direction R: "Reverse", in relation to the crane carrier
4. Manual / Automatic gearbox
5. Engine brake on +
6. Engine brake off -

Keyboard right

1. Parking brake
2. Travel gear: Creeper gear
3. Steering program: Front axle steering
4. Steering program: All-wheel steering
5. Steering program: Crab steering
6. Steering program: Rear axle steering
7. All-wheel drive
8. Transverse differential lock
9. Axle oscillation
Support

1. Engine start / engine stop
2. Increase engine rpm
3. Reduce engine rpm
4. Sliding beam illumination
5. Extend support cylinders
6. Retract support cylinders
7. Extend sliding beam
8. Retract sliding beam
9. Select support 3 front left
10. Select support 2 front right
11. Select support 4 rear left
12. Select support 1 rear right
13. Automatic leveling mode
14. Digital level gauge
15. Scale of digital level gauge

Support control unit

Keyboard left

[Image of keyboard control unit]
Set up program

1. Set up program
2. Chart name (chart number)
3. Graphic display
4. Support display
5. Operating mode
6. Counterweight
7. Support base
8. Slewing range
9. Reieving main boom pulley head
10. Reieving equipment
11. ENTER key (confirmation of set up configuration)
**Master switch left**

Y+  Spool winch 2 out /
    Telescope the telescopic boom out*

Y-  Spool winch 2 up /
    Telescope the telescopic boom in*

X-  Turn the crane superstructure to the left

X+  Turn crane superstructure to the right

* See master switch right + left preselection

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**Keyboard units – preselection**

1. Preselect luffing crane movement
2. Preselect telescoping crane movement
3. Telescoping mode LRT 1090-2.1:
   - LED on: Telescoping mode 1 (telescopes 2, 3, 4 are telescoped out first)
   - LED off: Telescoping mode 2 (telescope 1 is telescoped out first)
3. Telescoping mode LRT 1100-2.1:
   - LED on: Longer boom (larger radius) with reduced load.
   - LED off: Reduced boom length (medium radius) with higher load
4. Turn floodlight on/off*
5. Load following floodlight*
6. Swing the floodlight up*
7. Swing the floodlight down*
8. Luffing in with suspended load
9. Preselect spooling winch 2 crane movement
10. Preselect telescoping crane movement
11. Slewing gear brake

*optional
**Master switch right**

Y+  Spool winch 1 out

Y-  Spool winch 1 up

X-  Luff telescopic boom up /
    Telescope telescopic boom in*

X+  Luff telescopic boom down /
    Telescope telescopic boom out*

* See master switch right + left preselection

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**Operating and control unit**

1. “Front” window washer system
2. “Roof” window washer system
3. Release button
4. Extend platform
5. “Front” window wiper
6. “Roof” window wiper
7. Interior light cab
8. Retract platform
9. Floodlight 1 front of turntable
10. Unpin turntable lock
11. Cabine tilt up
12. Airplane warning
13. Floodlight 2 front of turntable
14. Automatic turntable lock centering and locking
15. Cabin tilt down
16. Hydraulic oil preheating*
17. Floodlight winch
18. Block winch 1
19. Slewing gear freely rotating
20. ECO mode operating mode
21. Floodlight rear view camera
    Floodlight camera right side of turntable*
22. Block winch 2
23. Block slewing gear  * optional
Crane operation program

1. **Crane operation program**

2. LMB STOP during travel operation  
   (driving without confirmed set up configuration)

3. Rear axle steering monitoring indicator

4. Driving direction preselection

5. Gear indicator

6. Current travel speed

7. Parking brake monitoring indicator

8. Engine rpm

9. Maximum load

10. Utilization bar diagram

11. Fuel reserve display

12. Urea reserve display

13. Current load

14. Slewing gear brake

15. Turntable rotation angle

16. Turntable lock

17. Display hook path/hook height

18. Winch assignment

19. Master switch winch assignment

20. Display reset hook path

21. Display reset hook height

22. Telescopic boom pinning status*

23. Graphic display

*no display for LRT 1090-2.1
Chart view program*

1. Chart view program*
2. Units of measure
3. Chart name
4. Telescopic boom lengths
5. Horizontal orientation display
6. Page counter
7. Boom radius
8. Vertical orientation display
9. Load value field
10. Reeving number of hoist rope
11. Extension condition of telescopic sections

*example of LRT 1100-2.1
1 Support force monitoring program

2 Sliding beam extension condition

3 Support cylinder numbering

4 Weight unit

5 Current support force display

6 Telescopic boom alignment

7 Maximum support force range

8 Set minimum support force

9 Minimum support force range

10 Set maximum support force
Telescoping program*

1. **Telescoping program**
   - Engine rpm
   - Current load
   - Boom radius
   - Main boom angle
   - Current crane utilization
   - Current extension condition of telescope 1
   - Current extension condition of telescope 2
   - Current extension condition of telescope 3
   - Current extension condition of telescope 4
   - Extension condition of telescoping cylinder

2. Telescoping status display (automatic / manual)
3. Switch between automatic and manual telescoping operation
4. Telescoping targets

* no display for LRT 1090-2.1
Control parameter program

1. Control parameter program
   2. Activate / deactivate display vibration sensor on master switch
   3. Slewing gear speed reduction as a %
   4. Winch 1 speed reduction as a %
   5. Winch 2 speed reduction as a %
   6. Telescoping speed reduction as a %
   7. Luffing speed reduction as a %
   8. Engine rpm / ECO mode setting
   9. Move the function selector down
   10. Move the function selector up
   11. Reduction of the selected value
   12. Increase of the selected value
   13. Reset to default settings
   14. Activate / deactivate vibration sensor
   15. Take over the set values
Working range limitation program

1. Working range limitation program
2. Pulley head height limit value
3. Function selector
4. Current pulley head height
5. Maximum working radius limit value
6. Current working radius
7. Right limit angle
8. Current turntable slewing angle
9. Left limit angle
10. Edge limitation
11. Selection of point 1 + 2 of the selected edges
12. Selection of edges to be programmed
13. Move the function selector
14. Individual limitation function ON / OFF
15. All limitation functions OFF
BSE test system program

1. BSE test system program
   (test system for LICCON control)
   – see the Diagnostics manual

2. Service System menu
   (crane maintenance indicators)
   – see the service book