NOTICE
Unsuitable parameters!
Damage to special working attachment.

- ▶ Select suitable parameters for special working attachment.
- ▶ Adhere to maximum permitted values for pressure and flow rate.

- ▶ Press *scroll* buttons **1** until desired *selected special working attachment* button **2** is outlined in white.
- ▶ Press required *selected special working attachment* button **2**.
  - ▷ Name of special working attachment is displayed in green.
  - ▷ Special working attachment is selected.
  - ▷ Parameters of special working attachment are activated.

3.2.28 *Service codes* menu

The *service codes* menu lists information and error messages in form of text messages.

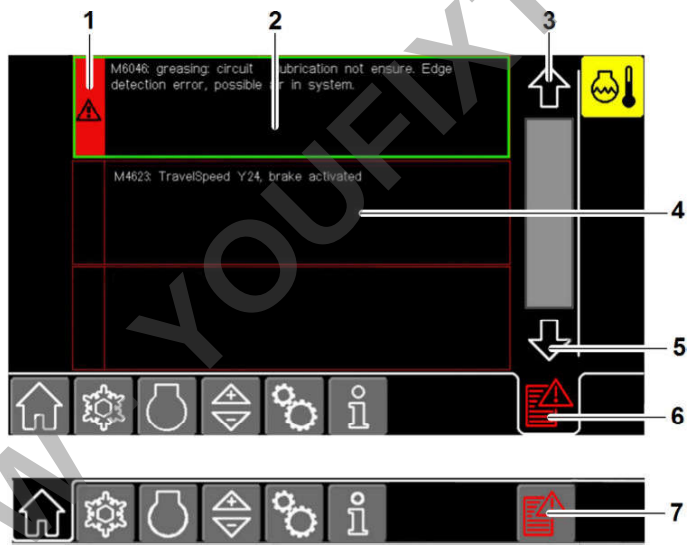


Fig. 154: Service codes menu

1	*New service code* button	**5**	*Scroll-down* button
2	Text field	**6**	*Service codes* menu
3	*Scroll-up* button	**7**	*Service codes* button
4	Text message		

If exclusively a text message **4** appears in *service codes* menu **6**:
– Message is not up to date.
– Message is not confirmed.



If *service codes* button **7** flashes red:
- ▶ Open *service codes* menu **6**: Press *service codes* button **7**.
  - ▷ *New service code* button **1** appears in red:



- ▶ Read message in text field **2**.

PREVIEW YOUFIXTHIS.COM

LMD/11824095/01/2020-02-03/en

Download full manual at youfixthis.com

3 Control and operation

3.1 Control and operating elements

3.1.1 Overview of operator's platform

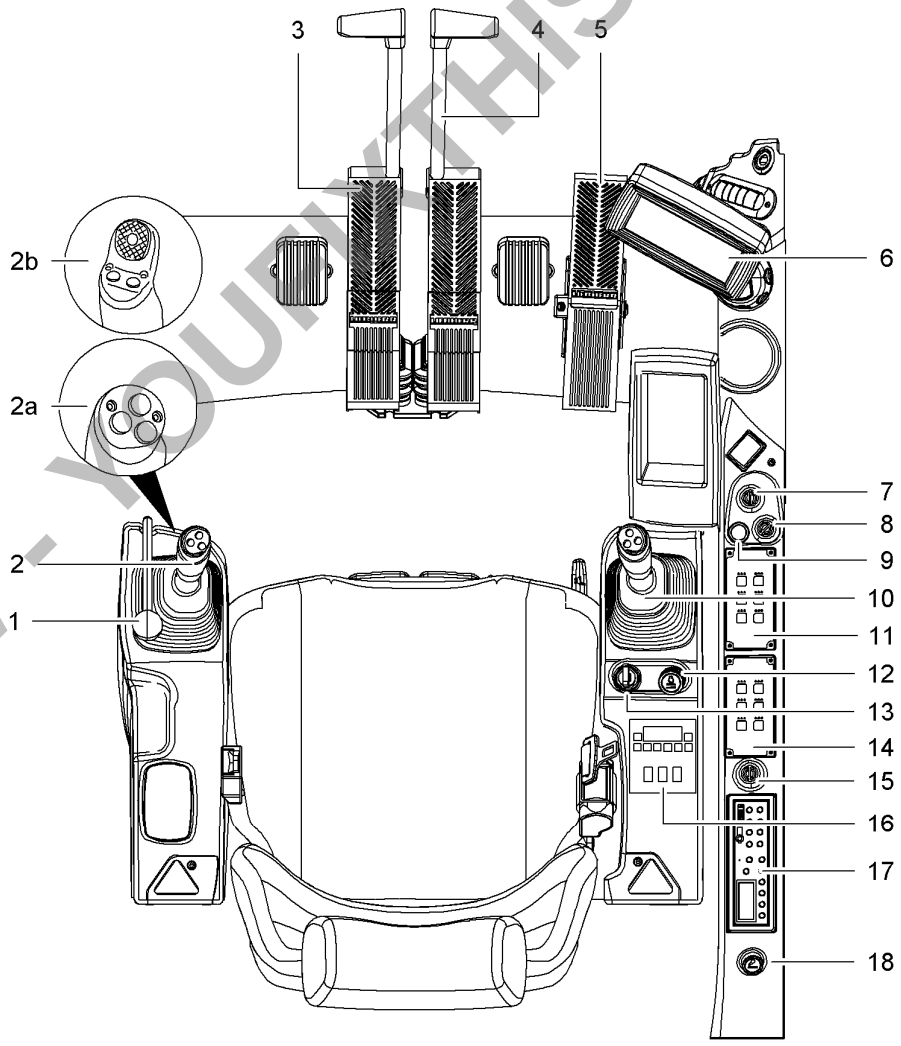


Fig. 43: Overview of operator's platform

1 Safety lever

9 Confirmation button [3)]

See next page for continuation of the image legend

[3)] Option

PREVIEW - YOUFIXTHIS.COM

LMD/11824095/01/2020-02-03/en

Download full manual at youfixthis.com

Inspection and maintenance schedule

Customer:..... Machine type:..... Serial no.:..... Operating hours:..... Date:.....

Maintenance / inspection after service hours								Tasks to be performed			
On handover	All 8-10 h	All 50 h	All 500 h	All 1000 h	All 2000 h	Other intervals	Additional labelling	**By maintenance staff** ■ Once-only activity ● Repeat interval ✦ If necessary ❄ Annually before the winter **By authorised specialist staff** ☐ Once-only activity ❍ Repeat interval ✧ If necessary **Additional labelling** Assistance required Have this task carried out exclusively by a certified electrician	Confirm tasks	See page
Complete machine										
	●	●	●	❍	❍			Check machine for proper condition and tightness.		225
		●	❍	❍	❍			Lubricate bearings on machine and working attachment.		225
			❍	❍	❍	●250 h		Check components for cracks.		227
			☐			✧		Adjust machine as per adjustment checklist.		
				❍	❍			Analysis of engine oil: Generally recommended (at least every 2 years); mandatory if a service agreement, additional warranty or powerline warranty exists.		
			❍	❍	❍			Analysis of biodegradable hydraulic oil: Generally recommended (at least every 2 years); mandatory if a service agreement, additional warranty or powerline warranty exists.		
				❍	❍			Analysis of mineral oil hydraulic oil: Generally recommended (at least every 2 years); mandatory if a service agreement, additional warranty or powerline warranty exists.		
						✧		Optional fuel and operating fluid analyses: Exclusively recommended.		
Drive group										
☐	●	●	❍	❍	❍	✦		Diesel engine: Check oil level.		234
			❍	❍	❍	✧		Diesel engine: Change oil (at least every 6 months).		
			❍	❍	❍	✧		Diesel engine: Replace oil filter (at least every 6 months).		
			❍	❍	❍	❍250 h		Diesel engine: Check belt drive and replace belt if necessary.		
					❍			Diesel engine: Replace belt.		
				❍	❍			Diesel engine: Check and adjust valve play.		
	●	●	❍	❍	❍	✦		Fuel pre-filter: Drain water.		235
		●	❍	❍	❍	✦		Fuel tank: Drain water and sediments.		236
			❍	❍	❍	❍250 h		**If diesel biofuel is used:** Fuel pre-filter: Replace filter cartridge (upon first filling with diesel biofuel; at least every 3 months for first 2 filter changes, then at least every 6 months or when power is lost).		
			❍	❍	❍			Fuel pre-filter: Replace filter cartridge (every 6 months or when power is lost).		
			❍	❍	❍	✦ ❍250 h		**If diesel biofuel is used:** Fuel fine filter: Replace filter element (upon first filling with diesel biofuel; at least every 3 months for first 2 filter changes, then at least every 6 months or when power is lost).		237

PREVIEW - YOUFIXTHIS.COM

LMD/11824095/01/2020-02-03/en

Download full manual at youfixthis.com

Note
Selected protection mode is saved and is activated the next time machine is started.

▶ Make sure that selected protection mode is adapted to work type and tool of machine.

Selecting manual protection mode

This protection applies to machines with selected working tool that does not require automatic protection.

Key	Status of LEDs	Meaning
	○ ○ ○	OFF mode: Hoist cylinder protection is deactivated.
	○ ☀ ○	Manual mode: Hoist cylinder protection is active as long as a button is pressed.
	☀ ○ ○	Continuous mode: Hoist cylinder protection is permanently active.

Tab. 27: Protection modes for working tool without automatic protection



▶ Select protection mode: Press and hold *hoist cylinder protection* key until required protection mode is selected.

Manually activating protection

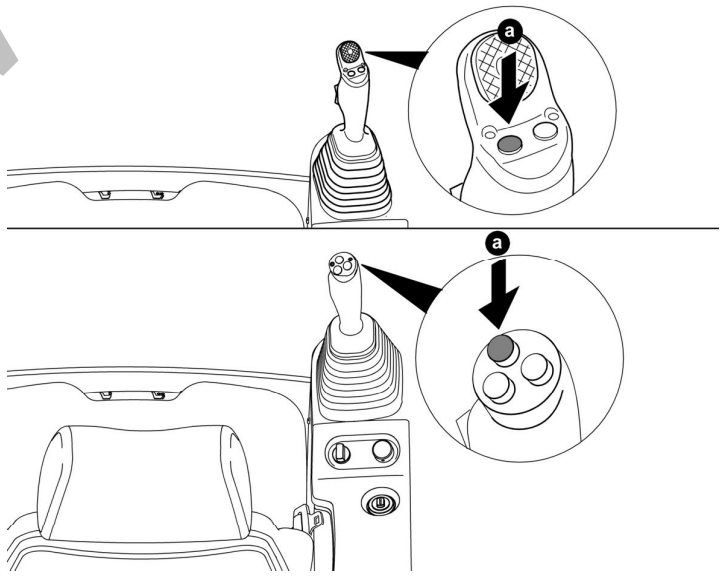


Fig. 245: Manually activating protection

PREVIEW - YOUFIXTHIS.COM

LMD/11824095/01/2020-02-03/en

Download full manual at youfixthis.com

3.9 Transport

3.9.1 Driving machine onto low-loader

Preparing loading ramp

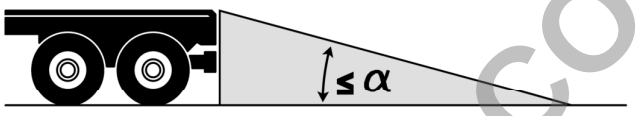


Fig. 282: Preparing loading ramp

Make sure the following preconditions are met:
- ❑ Loading ramp is designed for required load capacity.
- ❑ Inclination angle α of loading ramp is smaller than 15°.
- ❑ Loading ramp is clean, free from snow and free from ice.
- ❑ Loading surface of low-loader is clean, free from snow and free from ice.

▶ Contain danger zone.

▶ Place blocks under loading ramp.

If loading ramp is smooth and made of metal:

▶ Attach anti-slip device to loading ramp.

Driving machine onto low-loader

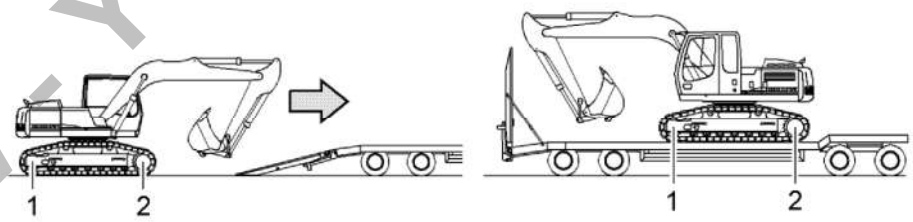


Fig. 283: Driving machine onto low-loader

1 Idler-wheel **2** Sprocket wheel

DANGER
Steering directions reversed!
Danger to life.

If sprocket wheels are at front of the machine:

▶ Drive carefully.

Make sure the following preconditions are met:
- ❑ Travel gear is clean, free from snow and free from ice.
- ❑ Spotter is in eye contact with operator or speaking contact with operator is possible.
- ❑ The loading zone of the machine contains no persons.

▶ Place on tear-resistant, non-slip straps with a friction coefficient μ over 0.6 in accordance with standard EN 12195-1 on low-loader platform.

PREVIEW - YOUFIXTHIS.COM

LMD/11824095/01/2020-02-03/en

Download full manual at youfixthis.com

- ▶ Move release lever **4** outwards.
- ▶ Close door.

Climbing down from the machine

- ▶ Align steps and hand rails of operator's cab: Align uppercarriage flush with undercarriage.
- ▶ Shut off diesel engine.
- ▶ Move safety lever or folding console up.
- ▶ Press handle **5** downwards.
- ▶ Open door and engage in locking mechanism **1**.
- ▶ Climb down facing machine.
- ▶ Move release lever **4** outwards.
- ▶ Close door.

3.3.3 Emergency exit



Fig. 163: Information sign: emergency exit / emergency hammer

An information sign on the rear window identifies the rear of the operator's cab as the emergency exit. The emergency hammer is located next to the cab door under the cab roof.

- ▶ In an emergency, break the rear window with the emergency hammer.

3.3.4 Fire extinguisher (option)

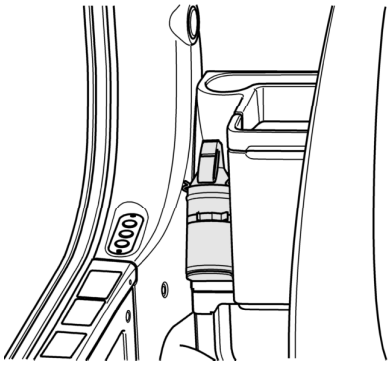


Fig. 164: Fire extinguisher

PREVIEW - YOUFIXTHIS.COM

LMD/11824095/01/2020-02-03/en

Download full manual at youfixthis.com

2	Left joystick	**10**	Right joystick
2a	Joystick	**11**	Control unit B
2b	Joystick with mini-joystick [3]	**12**	Engine speed controller
3	Accelerator pedals	**13**	Starting switch
4	Travel lever	**14**	Control unit C [3]
5	Control pedal for special working attachment [3]	**15**	Emergency stop button [3]
6	Display	**16**	Control unit for *heating and air conditioning unit*
7	Central lubrication system [3]	**17**	Radio [3]
8	Diesel engine indicator light [4] [5]	**18**	Cigarette lighter

3.1.2 Control unit B

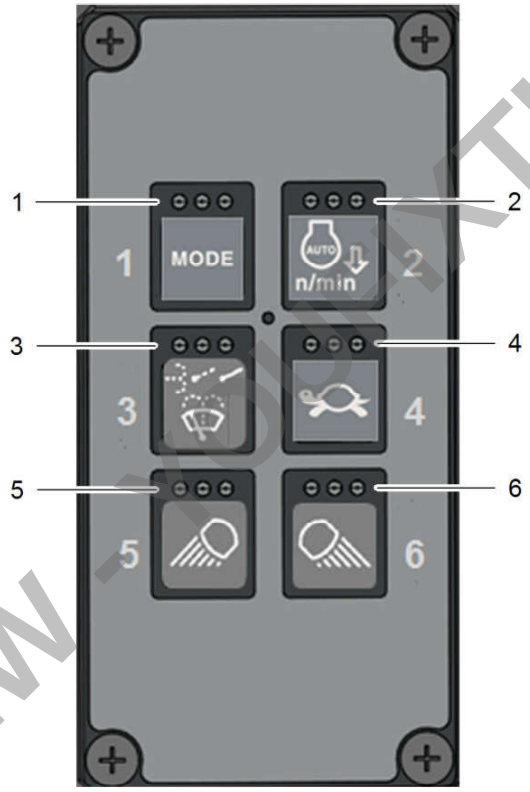


Fig. 44: Control unit B

1	*Operating mode* key	**4**	*Creeper gear* key
2	*Sensor-controlled low idle automatic* key	**5**	*Front roof light and headlights of working attachment* key
3	*Front windscreen wiper and rear windscreen wiper* key	**6**	*Roof light, rear* key [6]

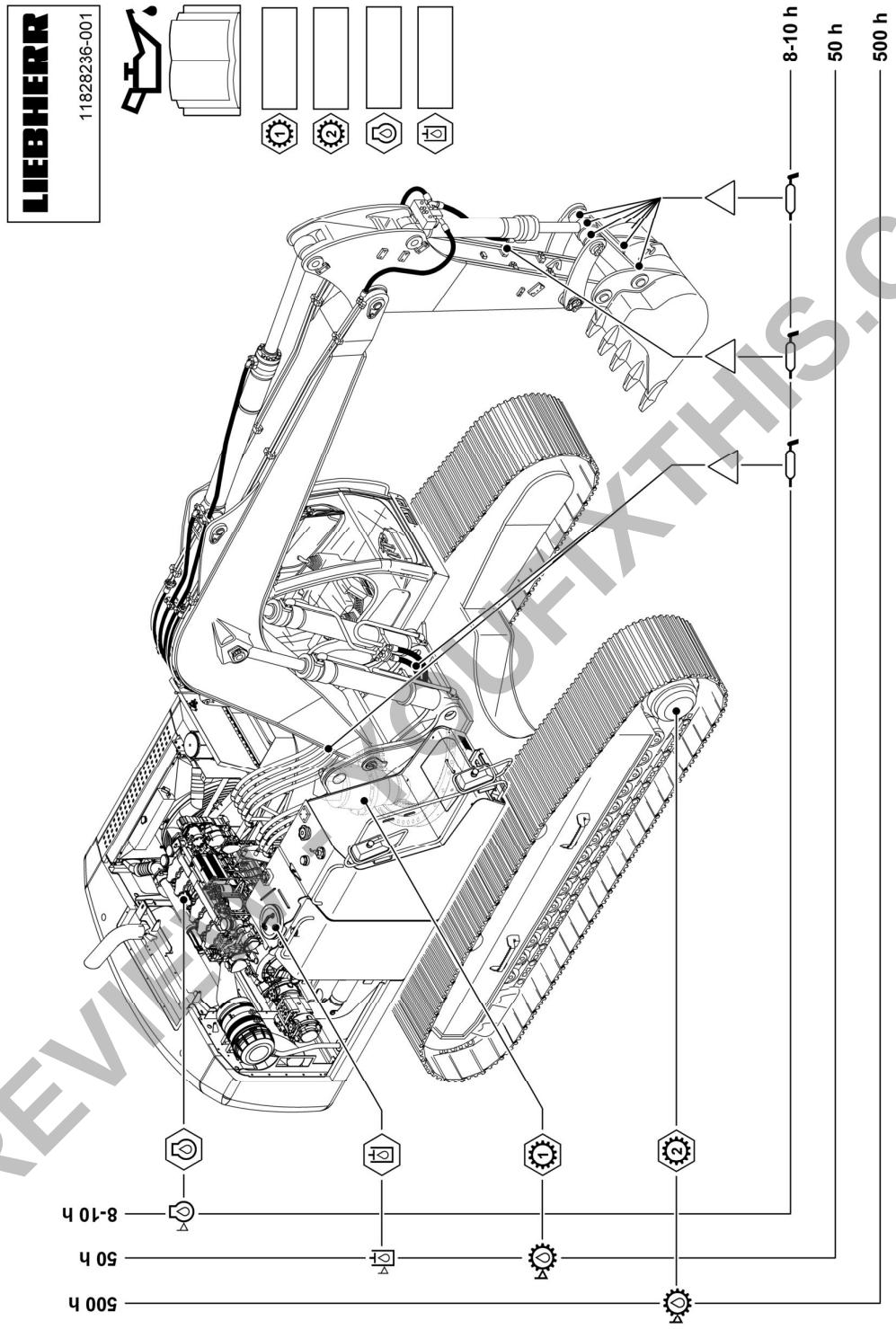
[3] Option
[4] Orange indicator light: Engine fault
[5] Red indicator light: Engine fault; shut-down of diesel engine necessary
[6] Option

PREVIEW - YOUFIXTHIS.COM

LMD/11824095/01/2020-02-03/en

Download full manual at youfixthis.com

5.2.2 Lubrication chart



LMD/11824095/01/2020-02-03/en

Fig. 358: Lubrication chart for manual lubrication

PREVIEW ONLY - YOUFIXTHIS.COM

Download full manual at youfixthis.com

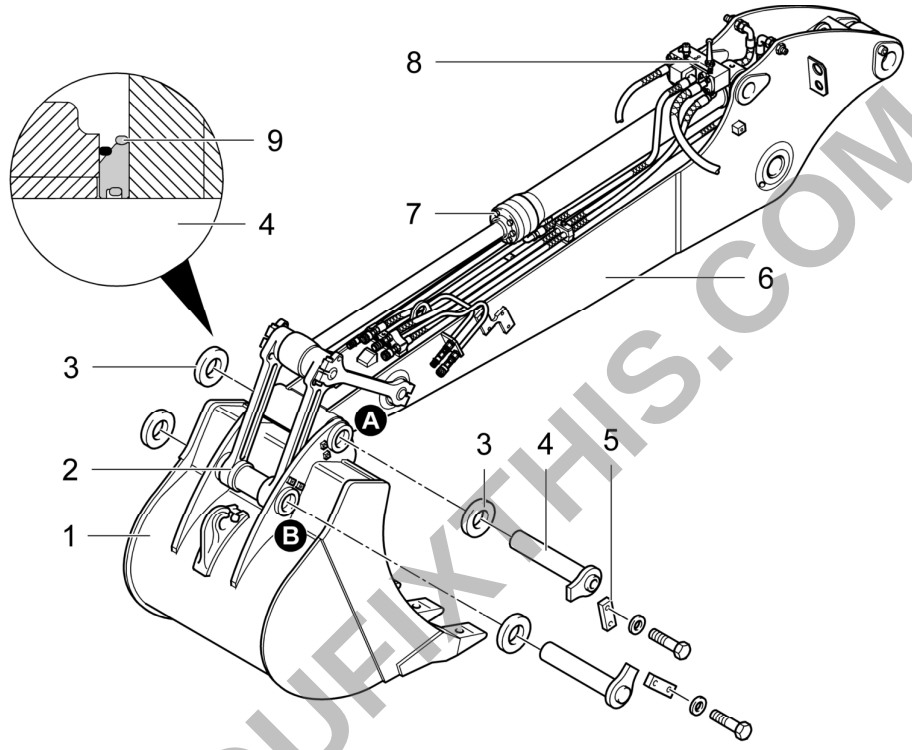


Fig. 277: Installing and removing bucket

A	Bearing (stick side)	**5**	Locking plate
B	Bearing (link side)	**6**	Stick
1	Bucket	**7**	Throttle check valve
2	Link	**8**	Stopcock
3	Sealing ring	**9**	O-ring
4	Pin		

Make sure the following preconditions are met:
❑ Bottom part of bucket **1** is resting fully on ground.

Installing bucket

NOTICE
Incorrectly set throttle check valves!
Damage to working attachment.

▶ Adapt throttle check valves to bucket size: Have throttle check valves adjusted by Liebherr customer service or authorised specialist staff.

Make sure the following preconditions are met:
❑ Grease used is approved. (For more information see: 5.3.9 Greases, page 201)

▶ Position working attachment so that bearings of stick **6** are aligned with bearings (stick side) **A** of bucket **1**.

▶ Insert pin **4** and sealing rings **3** in bearings (stick side) **A** of bucket **1**. Adhere to installation direction of sealing rings **3**.

LMD/11824095/01/2020-02-03/en

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

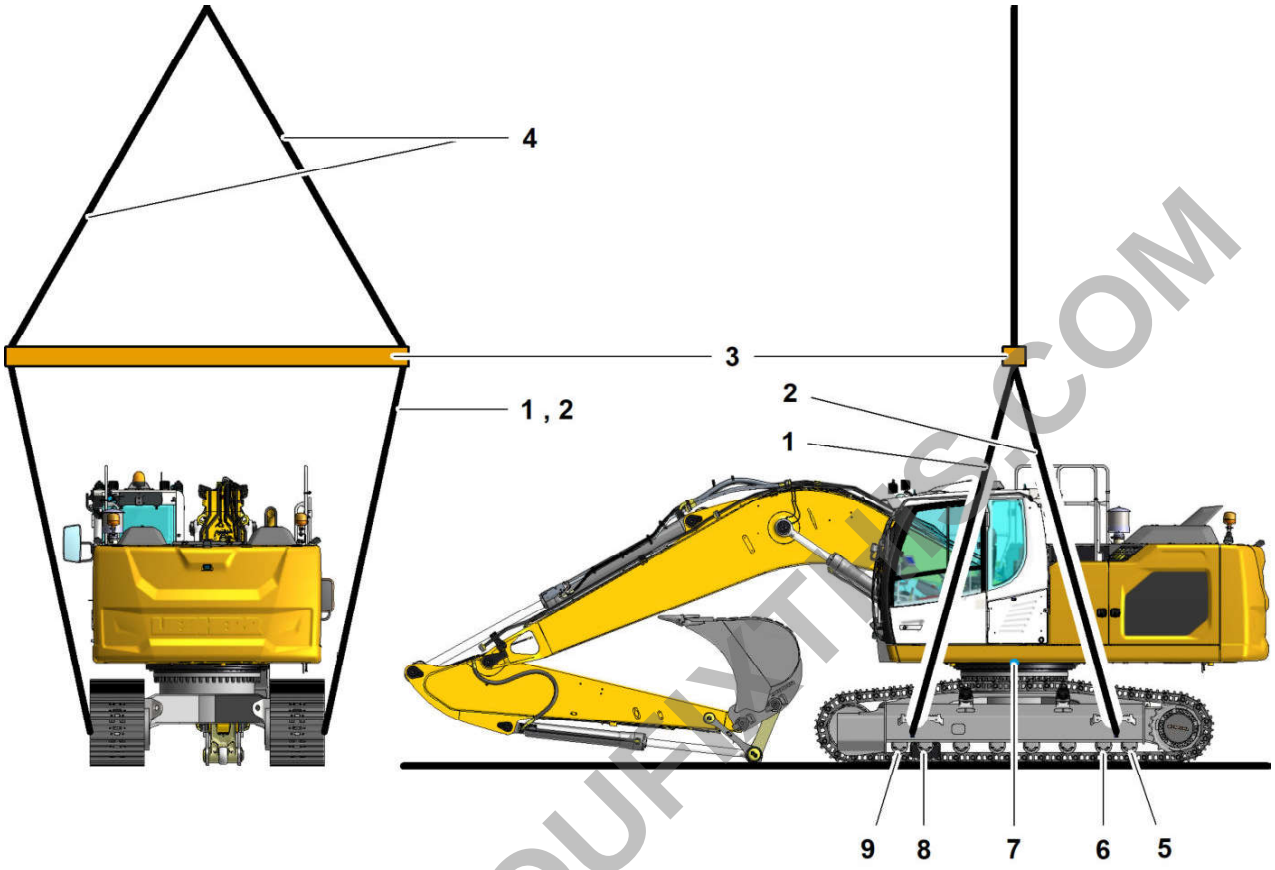


Fig. 287: Installing lifting accessory

1	Front slinging gear	**4**	Slinging gear	**7**	Machine's centre of gravity
2	Rear slinging gear	**5**	First rear track roller	**8**	Second front track roller
3	Crossbeam	**6**	Second rear track roller	**9**	First front track roller

- ▶ Attach front slinging gear **1** between first front track roller **9** and second front track roller **8**.
- ▶ Attach rear slinging gear **2** between first rear track roller **5** and second rear track roller **6**.
- ▶ If necessary remove track guides or other components (for example steps or track pads) that could affect installation of front slinging gear **1** or rear slinging gear **2**.
- ▶ Attach one slinging gear **4** to every end of crossbeam **3**.
- ▶ Hook both slinging gears **4** into load lift hook of lifting machinery.
- ▶ Lift both slinging gears **4** and crossbeam **3** and position at right angle to machine's centre of gravity **7**.
- ▶ Attach front slinging gear **1** and rear slinging gear **2** to every end of cross-beam **3**.
- ▶ Protect machine elements that could be damaged during lifting.

PREVIEW - YOUFIXTHIS.COM

LMD/11824095/01/2020-02-03/en

Download full manual at youfixthis.com

Travelling in straight line

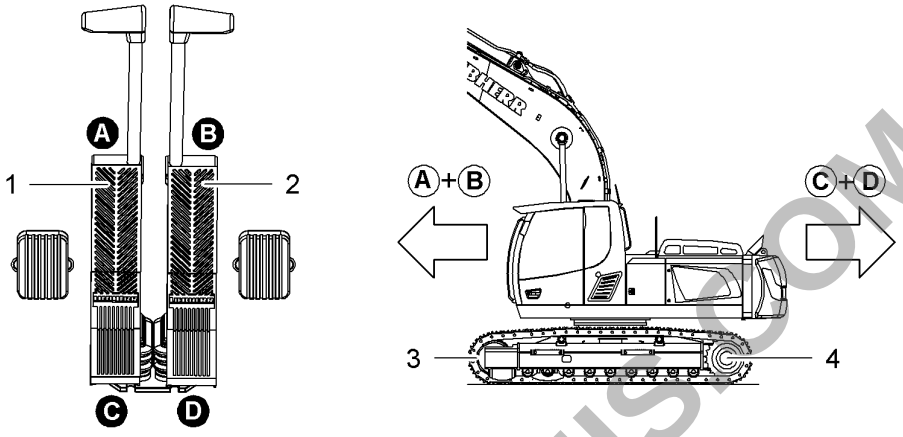


Fig. 224: Travelling in straight line

1	Left accelerator pedal	**3**	Idler-wheel
2	Right accelerator pedal	**4**	Sprocket wheel

Make sure the following preconditions are met:
- ❑ Idler-wheel **3** is on front of machine.

- ▶ Travel forwards in straight line: Simultaneously press left accelerator pedal **1** forwards **A** and right accelerator pedal **2** forwards **B**.
- ▶ Travel backwards in straight line: Simultaneously press left accelerator pedal **1** backwards **C** and right accelerator pedal **2** backwards **D**.

Travelling around bends

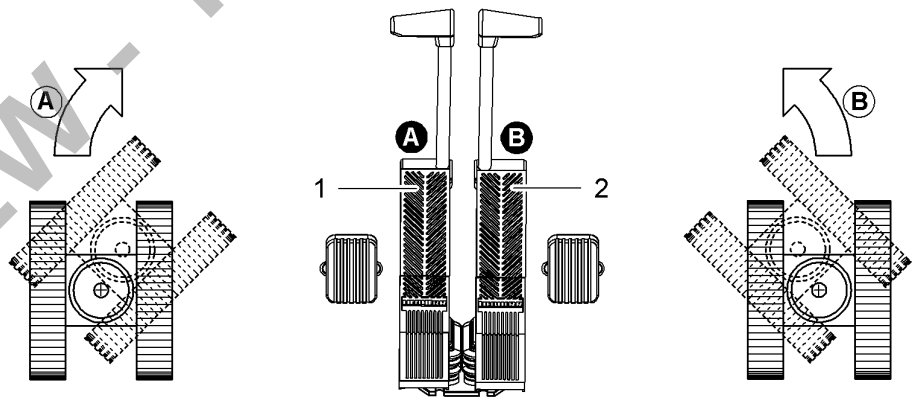


Fig. 225: Travelling around bends

1	Left accelerator pedal	**2**	Right accelerator pedal

- ▶ Turn right: Press left accelerator pedal **1** forwards **A**.
- ▶ Turn left: Press right accelerator pedal **2** forwards **B**.

PREVIEW - YOUFIXTHIS.COM

LMD/11824095/01/2020-02-03/en

Download full manual at youfixthis.com

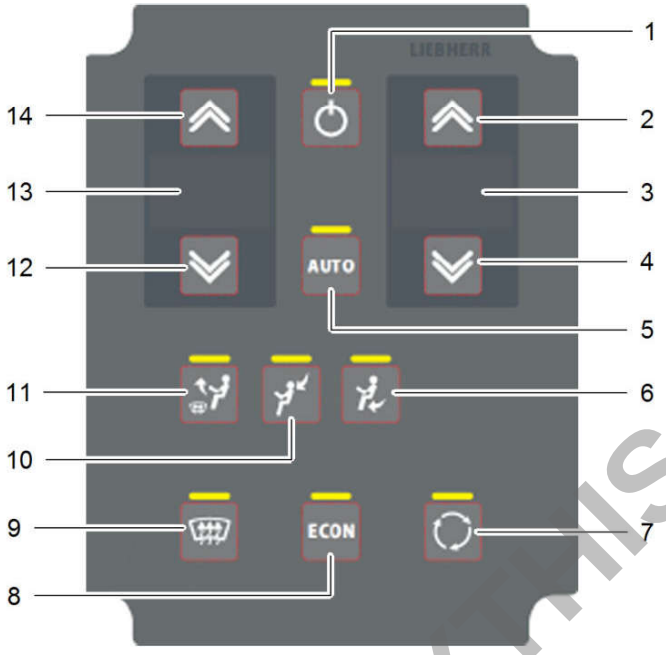


Fig. 75: Air conditioning unit control unit

1	*Power* key	**8**	*ECON* key
2	*Increasing blower power* key	**9**	*Defrosting* key
3	Display of blower power	**10**	*Air supply in back area* key
4	*Reducing blower power* key	**11**	*Air supply in windscreen area* key
5	*AUTO* or conversion °C - °F key	**12**	*Reducing temperature* key
6	*Air supply in footwell* key	**13**	Display of temperature or display of a service code
7	*Recirculated air* key	**14**	*Increasing temperature* key

Note
Settings are stored when the air conditioning unit is switched off.

▶ Functions are reactivated when the air conditioning unit is switched on again.

Note
Display of service codes.

▶ Further information on service codes: Adhere to manufacturer documentation.

Operating modes

AUTO operating mode

The temperature in the operator's cab is controlled according to the set nominal temperature and the outside temperature.

Air distribution, blower power, cooling power and heating power are adjusted automatically.

ECON operating mode

Air conditioning unit is deactivated.

Machine consumes less fuel.

LMD/11824095/01/2020-02-03/en

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 300 pages

The full manual includes:

- All 300 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Liebherr R 922 Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual