

**en**

**Operator's manual**

Wood grapple

GMH 50

**Document ID**

	ORIGINAL OPERATOR'S MANUAL
<b>Order number:</b>	12255505
<b>Issued:</b>	2019-09-05
<b>Version:</b>	01
<b>Author:</b>	LHB / Technical Documentation Department

**Product ID**

<b>Manufacturer:</b>	Liebherr-Hydraulikbagger GmbH
<b>Product type:</b>	Wood grapple GMH 50

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## Damage

### Incorrect operation in operating conditions deviating from intended use

- Equip working tool according to operating conditions.

Following operating conditions deviate from intended use:

- Dust intensive applications
- Contaminated areas
- Lower or higher ambient temperatures

### Incorrect operation in corrosive environment or with corrosive material

- Regularly clean working tool to remove corrosive materials (for example salt, phosphate, fertiliser).
- Treat metallic surfaces with conservation wax if necessary.
- Derust, prime and repaint damaged and corroded steel parts.
- If working tool is equipped with hydraulic cylinders: Make sure that piston rods of hydraulic cylinders are coated completely with an oil film.
- If piston rods are not coated completely with an oil film: Retract and extend piston rods along the entire stroke.
- If it is not possible to retract and extend the piston rods along the entire stroke: Clean and conserve piston rods.

## 1.2.3 Disposal

### Danger to life

#### Unapproved disposal of gas containers and pressure vessels

- Before disposal, completely depressurise pressure vessel.
- Before disposal, professionally empty pressure vessel.
- Adhere to safety instructions of pressure vessel manufacturer.

### Environmental pollution

#### Improper disposal of working tool

- Make sure that the individual elements of the working tool are disposed of correctly after the service life.
- Dispose of elements of working tool in line with valid country-specific waste disposal guidelines and relevant valid laws.
- Remove fuels, operating fluids and lubricants from all components before disposal.
- Collect and store fuels, operating fluids and lubricants in suitable containers before disposal.
- Adhere to instructions of relevant manufacturer when disposing of fuels, operating fluids and lubricants.
- Have fuels, operating fluids and lubricants disposed of by old oil recycling point.
- Have metal parts disposed of by metal recycling point.
- Have plastic parts disposed of by plastic recycling point.
- Have rubber parts disposed of by rubber recycling point.
- Have electronic components disposed of by electronics recycling point.

# 2 Introduction

## 2.1 Special tools

### 2.1.1 Mechanical system of special tool

Designation	Part number	Container size	Use
Loctite 243	8655016	10 ml Bottle	Thread locker
Loctite 648	8655032	10 ml Bottle	Thread locker

*Tab. 5: Mechanical system of special tool*

### 2.3.8 Hydraulic schematic of slewing gear

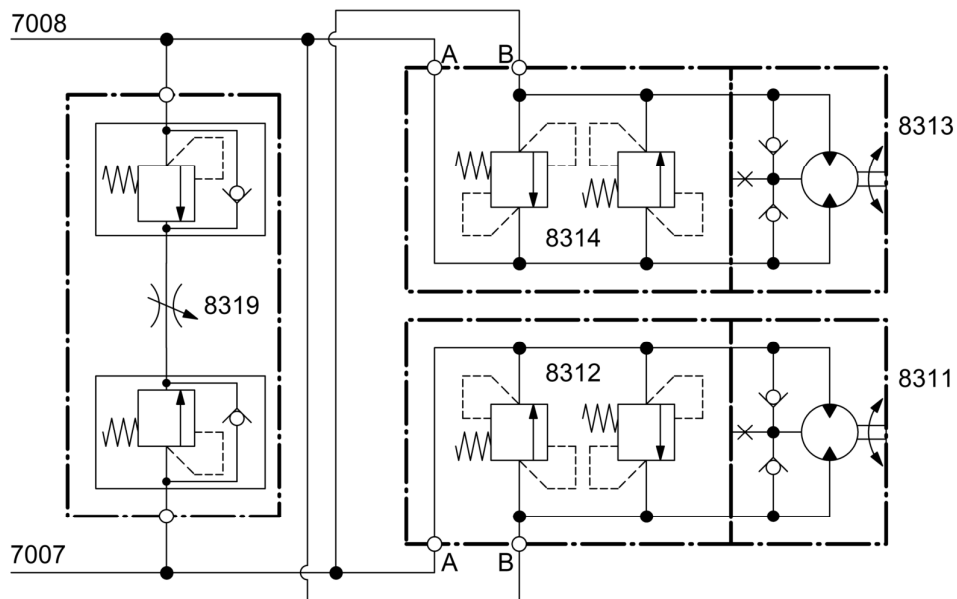







Fig. 19: Hydraulic schematic of slewing gear

<b>7007</b>	Function: Turning slewing gear right	<b>8312</b>	Pressure valve	<b>8319</b>	Pressure relief valve
<b>7008</b>	Function: Turning slewing gear right	<b>8313</b>	Hydraulic motor		
<b>8311</b>	Hydraulic motor	<b>8314</b>	Pressure valve		

Symbol	Meaning
	Gearbox
	Checking oil level
	Lubricating points
	Lubrication
h	Operating hours (interval)
	Observe operator's manual

Tab. 9: Meaning of the symbols on the lubrication chart

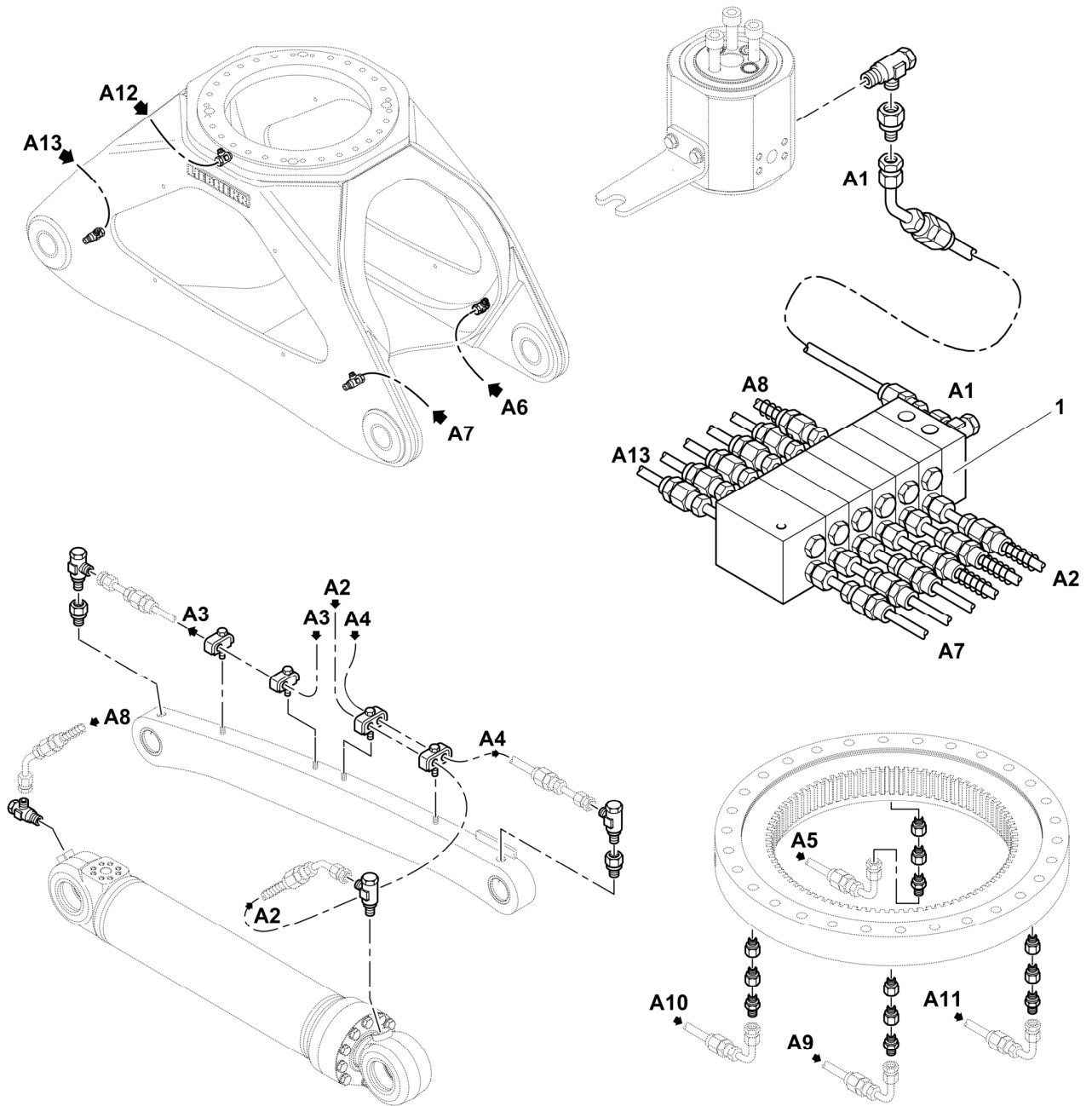


Fig. 35: Overview of lubricating points

- 1 Secondary distributor of slewing gear

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- ▶ Make sure that nuts **1** and thread of clip-on cutting edge **2** are clean and free from grease.
- ▶ Install clip-on cutting edges **2**.
- ▶ Coat nuts **1** with Loctite 243 thread locker.
- ▶ Insert nuts **1** and tighten.

## Replacing undercut blades

Make sure that following special tools are available:

- Loctite 243 thread locker
- Loctite 648 thread locker

## Removing undercut blades

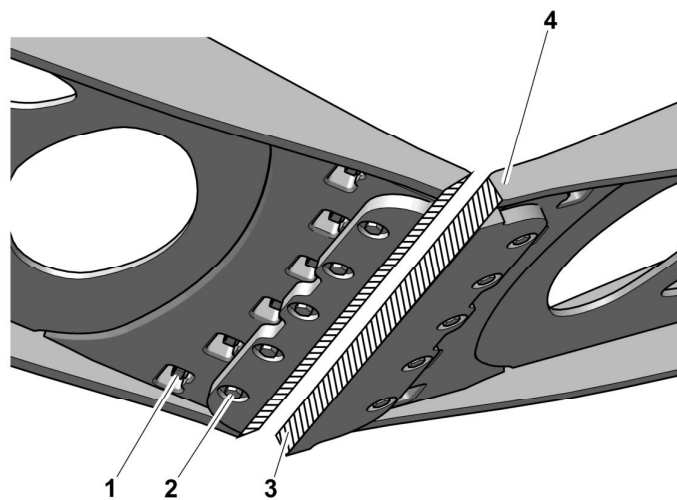


Fig. 45: Removing undercut blades

- |          |       |          |                |
|----------|-------|----------|----------------|
| <b>1</b> | Nut   | <b>3</b> | Undercut blade |
| <b>2</b> | Screw | <b>4</b> | Grapple end    |

If undercut blades **3** are worn:

- ▶ Loosen nuts **1** and screws **2**.
- ▶ Check threaded rods on undercut blades **3**, replace threaded rods if necessary. (For more information see: [Replacing threaded rods, page 63](#))
- ▶ Replace undercut blades **3**.
- ▶ Check grapple ends **4**, replace if necessary. (For more information see: [Replacing grapple ends, page 62](#))

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