OPERATING MANUAL



TYPE

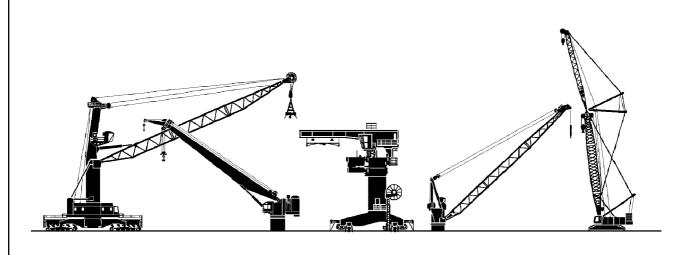
CONVERSION

Fixed jib 0806, 0906, 1008, 1713

Luffing jib 1309, 1713, 1916

Auxiliary jib

VERSION **003**



LR_UBS_V003 (gl) LWN - TD7/5/2010

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11.

LR1100-2017

11.0.1

Overview of modification kits required

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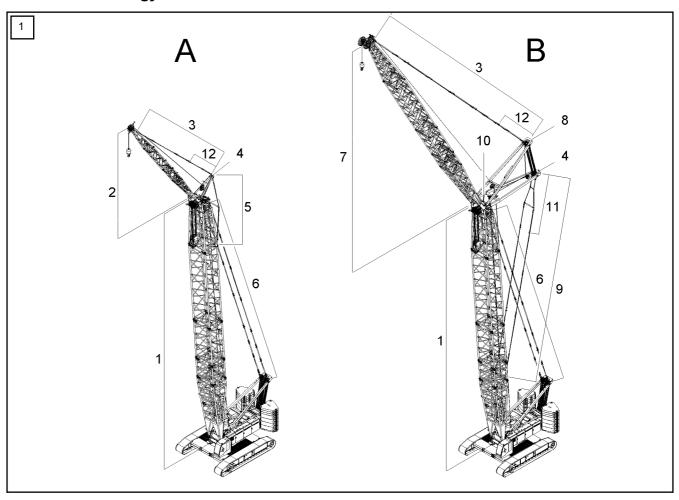
NOTES:

1. INTRODUCTION

1.1 Modification kits

As the result of the modularization of the crawler crane types, a wide range of boom configurations can be implemented around the basic machine. This allows optimum utilization of the machine.

1.1.1 Terminology



- A Fixed jib
- 1 Main boom
- 2 Fixed jib
- 3 Jib pendant straps
- 4 A-frame 2
- 5 Basic rope A-frame 2 or crossbar with coupling links
- 6 Main boom pendant straps

- B Luffing jib
- 7 Luffing jib
- 8 A-frame 3
- **9** Jib tensioning rods
- 10 Tilting-back supports
- 11 Basic rope A-frame 2
- 12 Basic rope A-frame 3

Items (Fig. 1, item 3 and 6) are **pendant straps**. Items (Fig. 1, item 9) are **tensioning rods**.

Jib **add-on parts** are:

- A-frame 2 (Fig. 1, item 4) with basic rope (crossbar with coupling links) (Fig. 1, item 11).
- A-frame 3 (Fig. 1, item 8) with basic rope (Fig. 1, item 12).
- the jib pivot piece

1.1.2 Key

D DerrickW Wind force

WD Wind force with derrick

* The explanation for * can be found below the table.
 ** The explanation for ** can be found below the table.

1.1.3 Overview of system size

Main boom

The table below shows:

- The system size of the main boom

Main boom							
System size	1311	2017	2018	2320	2220	2821	
LR1100	0						
LR1100-2017*		0					
LR1130		0					
LR1160			0				
LR1200/LR1200SX				0			
LR1280					0		
LR1300						0	

^{*} Special model

Main boom with reducing piece

The table below shows:

- The system size of the reducing piece

Main boom with reducing piece								
System size	1311	2017	2018	2018	2320	2220	2821	2821
	1008	1309	1309	1713	1916	1916	2220	2316
LR1100	0							
LR1130		0						
LR1160			0	0				
LR1200/LR1200SX					0			
LR1280						0		
LR1280W							0	
LR1300								0

^{*} Special model

The table below shows:

- The system size of the fixed jib sections

Fixed jib							
System size	0806	0906	1008	1507	1713		
LR1100	0						
LR1130	0						
LR1160	0		0				
LR1200/LR1200SX	0		0				
LR1280	0		0				
LR1280W		0					
LR1300		0	0	0	0		
LR1300W		0	0	0			

^{*} Special model

Luffing jib

The table below shows:

- The system size of the luffing jib sections

System size	1008	1309	1713	1916	2316
LR1100	0	0			
LR1100-2017*		0			
LR1130		0			
LR1160		0	0		
LR1200/LR1200SX			0	0	
LR1280			0	0	
LR1280W				0	
LR1300				0	0

^{*} Special model

Luffing jib with midfall

The table below shows:

- The system size of the midfall

Luffing jib with midfall							
System size	1008	1309	1713	1916	2316		
LR1100		0					
LR1130		0					
LR1160		0	0				
LR1200/LR1200SX				0			
LR1280				0			
LR1300				0	0		

1.1.4 Overview of boom section lengths

Main boom

The table below shows:

- The lengths of the boom sections

Length of main boom sections								
	3 m [10 ft]	6 m [20 ft]	11.7 m [38 ft]	12 m [40 ft]	System size			
LR1100	0	0		0	1311			
LR1100-2017*	0	0		0	2017			
LR1130	0	0		0	2017			
LR1160	0	0	0		2018			
LR1200/LR1200SX	0	0		0	2320			
LR1280	0	0	0		2220			
LR1280W	0	0		0	2821			
LR1300	0	0		0	2821			

^{*} Special model

Main boom with reducing piece

The table below shows:

- The lengths of the reducing pieces

Length of the reducing piece				
	7.2 m 12 m System size of reducing piece [23.6 ft] [40 ft]			
LR1100		0	1311/1008	
LR1130		0	2017/1309	
LR1160	0		2018/1309	
LR1160		0	2018/1713	
LR1200/LR1200SX		0	2320/1916	
LR1280		0	2220/1916	
LR1280W		0	2821/2220	
LR1300		0	2821/2316	

^{*} Special model

Fixed jib and luffing jib

The table below shows:

- The lengths of the jib sections

	Length o	f jib section	S		
System size	3 m [10 ft]	6 m [20 ft]	11.7 m [38 ft]	12 m [40 ft]	
0806	0	0			
0906**					7 m [23"]
1008	0	0		O*	
1309	0	0	0		
1507**					8 m [26"]
1713	0	0		0	
1916	0	0		0	
2316	0	0		0	

Midfall

The table below shows:

- The lengths of the midfall

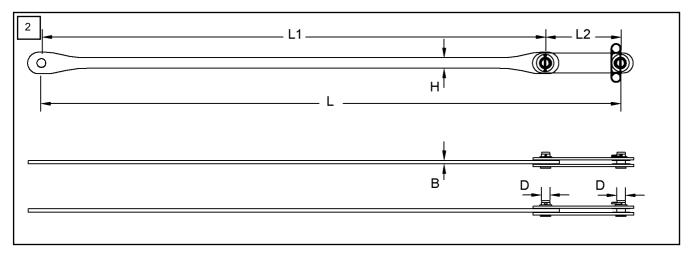
	Length of midfall					
System size	0.35 m [1 ft]	0.50 m [1.6 ft]				
1309	0		LR1100 / LR1130 / LR1160			
1713		0	LR1160 / LR1200 / LR1280 / LR1280W			
1916		0	LR1200 / LR1280 / LR1300			
2316		0	LR1300			

^{*} LR1100 only
** In these jibs the jib pivot piece and jib head are one piece. This means that no sections can be installed.

1. INTRODUCTION

1.1.5 Pendant straps and tensioning rods

Main boom



Total length

L1 Pendant strap length

L2 Coupling link length

Pendant strap height Н

В Pendant strap width

Bolt diameter

Four different pendant straps and tensioning rods are used on the main boom. The pendant strap/tensioning rods supplied depend on the machine.

Pendant straps and tensioning rods, main boom							
Total length (L)	Width (B)	Height (H)	Pin diameter (D)				
3 m [10 ft] / 6 m [20 ft] / 11.7 m [38 ft] / 12 m [40 ft]	18 mm [0.7"]	54 mm [2.1"]	Ø 45 [1.77"]				
3 m [10 ft] / 6 m [20 ft] / 11.7 m [38 ft] / 12 m [40 ft]	22 mm [0.86"]	62 mm [2.44"]	Ø 50 [1.96"]				
3 m [10 ft] / 6 m [20 ft] / 11.7 m [38 ft] / 12 m [40 ft]	22 mm [0.86"]	66 mm [2.59"]	Ø 55 [2.16"]				
3 m [10 ft] / 6 m [20 ft] / 12 m [40 ft]	25 mm [0.98"]	77 mm [3.03"]	Ø 65 [2.55"]				

The differences in length in the 11.7 m [38 ft] and 12 m [40 ft] versions are achieved by using coupling links of different lengths. For these lengths the pendant straps and tensioning rods are in two parts.



IMPORTANT!

The Total length refers to the length of the boom sections.



IMPORTANT!

This information is valid when the machine leaves the factory. For modifications, follow the instructions in the relevant section.



NOTE!

The information relates to steel pendant straps.

Designations

In the rest of the operating manual the pendant straps or tensioning rods are designated as follows:

Example: 18/54/45

The first number refers to the Width (B).

The second number refers to the **Height (H)**.

The third number refers to the **Pin diameter (D)** of the pendant straps or tensioning rods.

Overview

The table below shows:

- The pin diameter of the jib tensioning rods when first delivered.

Pin diam	Pin diameter of pendant straps and tensioning rods on main boom								
		18/54/45	22/62/50	22/66/55	25/77/65				
LR1100	HPT pendant straps	0							
1311	NDL tensioning rods	0							
LR1100-2017*	HPT pendant straps		0						
2017	NDL tensioning rods	0							
LR1130	HPT pendant straps		0						
2017	NDL tensioning rods	0							
LR1160	HPT pendant straps		0						
2018	NDL tensioning rods	0							
LR1200/LR1200SX	HPT pendant straps			0					
2320	NDL tensioning rods		0						
LR1280	HPT pendant straps			0					
2220	NDL tensioning rods		0						
LR1280W	HPT pendant straps			0					
2821/2220	NDL tensioning rods		0						
LR1300	HPT pendant straps				0				
2821	NDL tensioning rods			0					

* Special model

HPT Main boom

NDL Jib

Luffing jib

The table below shows:

- The pin diameter of the basic rope on A-frame 2 of the luffing jib.

Pin diameter of basic rope on luffing jib, A-frame 2					
Luffing jib	Ø 45 [1.77"]	Ø 50 [1.96"]	Ø 55 [2.16"]		
1008	0				
1309	0				
1713	0				
1916		0			
2316			0		

Different diameters for:

- Coupling links, basic rope, A-frame 2
- Jib tensioning rods
- Pivot points on main boom pivot piece for jib tensioning rods

are overcome by coupling links. These coupling links have 2 different diameters.

The table below shows:

- Available "Coupling link diameter" modification kits

Coupling link diameter modification kit		
	Ø 45 - 50 mm [1.77" - 1.96"]	Ø 50 - 55 mm [1.96" - 2.16"]
Coupling link 45/50	0	
Coupling link 50/55		0

Designations

In the rest of the operating manual these coupling links are designated as follows:

Example: 45/50

The first number refers to the first pin diameter.

The second number refers to the second pin diameter.

Examples:

The basic rope on A-frame 2 of luffing jib 1713 has a pin diameter of 45 mm [1.77"]. On delivery of an LR1200 with luffing jib 1713 the jib tensioning rods have a pin diameter of 50 mm [1.96"]. For this reason, the "Coupling link diameter modification kit" (coupling link 45/50) is supplied with the LR1200.

The basic rope on A-frame 2 of luffing jib 1916 has a pin diameter of 50 mm [1.96"]. On delivery of an LR1200/LR1200SX with luffing jib 1916 the jib tensioning rods have a pin diameter of 50 mm [1.96"]. If this luffing jib 1916 is fitted to an LR1300 and the jib tensioning rods from the LR1200/LR1200SX are used, the "Coupling link diameter modification kit" (coupling link 50/55) is needed on the main boom pivot piece. The pivot piece on the LR1300 is designed for a pin diameter of 55 mm [2.16"].

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1.1.6 Overview of coupling links

Main boom pendant straps

The table below shows:

- The pin spacing of the coupling links on the main boom pendant straps

Pin spacing of the coupling links on the main boom pendant straps							
	240 mm [9.4"]	270 mm [10.6"]	300 mm [11.8"]	390 mm [15.3"]	420 mm [16.5"]		
LR1100				3/6/12			
LR1100-2017*	3			6 / 12			
LR1130	3			6 / 12			
LR1160	3 /11,7			6			
LR1200/LR1200SX		3			6 / 12		
LR1280		3 / 11,7			6		
LR1280W		3			6 / 12		
LR1300			3/6/12				

^{*} Special model

- 3 m [10 ft] main boom pendant straps
- 6 6 m [20 ft] main boom pendant straps
- 11.7 m [38 ft] main boom pendant straps
- 12 m [40 ft] main boom pendant straps

Jib tensioning rods on main boom

The table below shows:

- The pin spacing of the coupling links on the jib tensioning rods

Pin spacing of coupling links on jib tensioning rods					
	240 mm [9.4"]	270 mm [10.6"]	390 mm [15.3"]	420 mm [16.5"]	
LR1100			3/6/12		
LR1100-2017*			3/6/12		
LR1130			3/6/12		
LR1160	11.7		3/6		
LR1200/LR1200SX	3		6 / 12		
LR1280	3 / 11,7		6		
LR1280W	3		6 / 12		
LR1300		3		6 / 12	

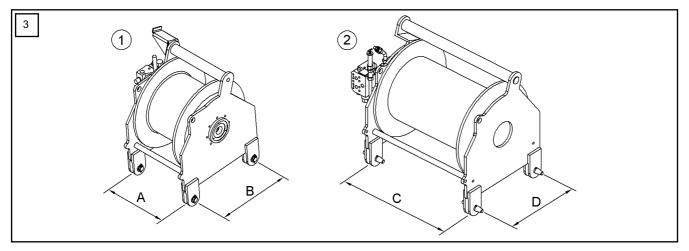
^{*} Special model

- 3 m [10 ft] main boom pendant straps
- 6 6 m [20 ft] main boom pendant straps
- 11.7 m [38 ft] main boom pendant straps
- 12 12 m [40 ft] main boom pendant straps

1. INTRODUCTION _____

1.1.7 Jib adjusting winch

Types of jib adjusting winch



- 1 Jib adjusting winch type 1
- **A** 575 mm [22.64"]
- **B** 638 mm [25.12"]

- 2 Jib adjusting winch type 2
- **C** 953 mm [37.52"]
- **D** 638 mm [25.12"]

Two types of jib adjusting winch are used depending on the system size of the pivot piece.

The table below shows:

- Use of the different types of jib adjusting winch.

Use of different types of jib adjusting winch					
	Type 1	Type 2	Luffing jib		
LR1100	0		1008, 1309		
LR1100-2017*		0	1309		
LR1130		0	1309		
LR1160		0	1309, 1713		
LR1200/LR1200SX		0	1713, 1916		
LR1280		0	1713, 1916		
LR1300		0	1916, 2316		

Special model

Rope lengths for jib adjusting winch

The table below shows:

- The rope lengths on the jib adjusting winch

Rope lengths on the jib adjusting winch					
	160 m [525 ft]	200 m [656 ft]	250 m [820 ft]	310 m [1017 ft]	385 m [1263 ft]
LR1100	0	0			
LR1100-2017*			0		
LR1130			0		
LR1160			0		
LR1200/LR1200SX				0	
LR1280				0	
LR1280W				0	
LR1300					0

 ^{*} Special model



NOTE!

The rope diameter on the jib adjusting winch is 20 mm.

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FIXED JIB 0806

2.1 Fixed jib 0806 from LR1100 to LR1130

If fixed jib 0806, originally supplied with an LR1100, is to be fitted to an LR1130, this modification kit must be used.

2.1.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting
- 2x coupling link supports

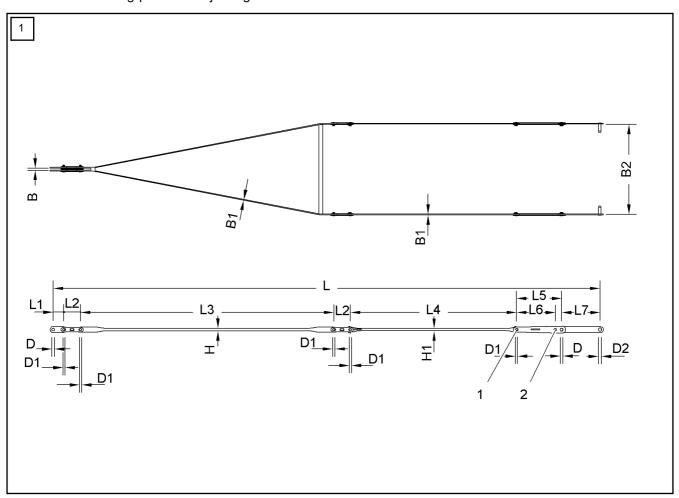
Coupling link supports

Included with the equipment supplied:

- 2x coupling link supports
- 4x pipe clamp, 2-part
- Fastening materials

Crossbar with coupling links and bolting

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



B 50 mm [1.96"]

B1 18 mm [0.7"]

B2 2115 mm [6.9 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 60 mm [2.3"]

64 mm [2.5"] Н

H1 54 mm [2.1"]

12840 mm [42.12 ft]

L1 250 mm [9.8"]

L2 390 mm [15.3"]

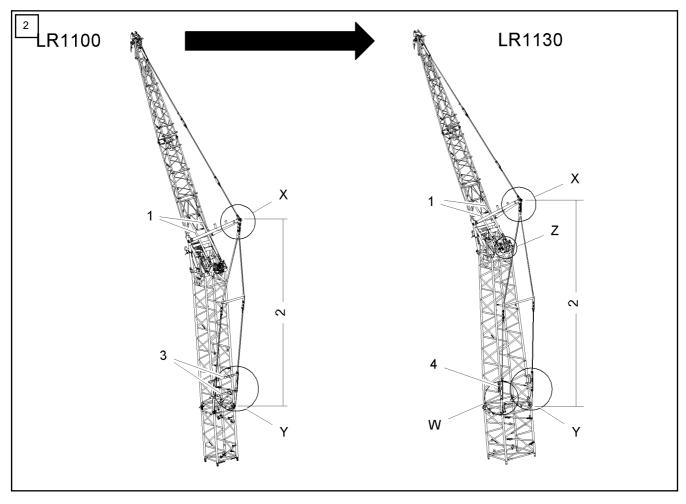
L3 5950 mm [19.5 ft]

L4 3900 mm [12.8 ft] **L5** 1060 mm [3.4 ft]

L6 900 mm [35.4"]

L7 900 mm [35.4"]

2.1.2 Assembly and dismantling



- Tilting-back supports
- 2 Crossbar with coupling links
- 3 Polyamide coupling link supports LR1100
- Coupling link supports LR1130

- Detail W
- Detail X X
- Detail Y Υ
- Ζ Detail Z

If fixed jib 0806, originally supplied with an LR1100, is to be fitted to an LR1130, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 2, item 2).
- Coupling link supports (Fig. 2, item 4).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

- Mount the coupling link supports on the main boom head LR1130 (see Detail W).
- Remove the crossbar and coupling links LR1100.
- Fit the crossbar and coupling links from the modification kit (see Detail X and Y).
- Fit the rope guard tube on the main boom head outwards (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1130

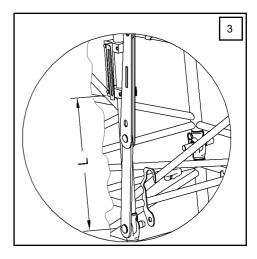


The coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.

1234 mm [48.5"]

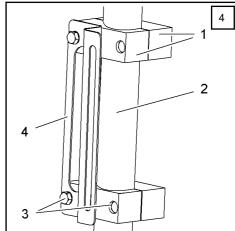
Length L (Fig. 3, item L) is from the centre of the bolting point on the main boom head to the start of the support.

The supports are 520 mm [20.4"] long



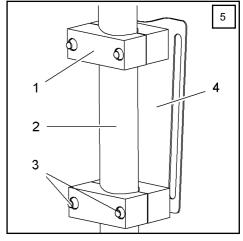
Exterior view

- 1 Pipe clamp
- 2 Chord pipe
- 3 Fastening materials
- Support



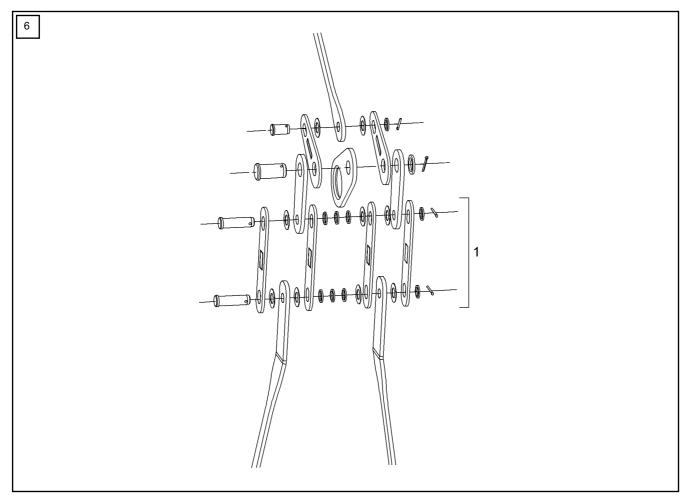
Interior view

- Pipe clamp
- Chord pipe 2
- 3 Fastening materials
- 4 Support



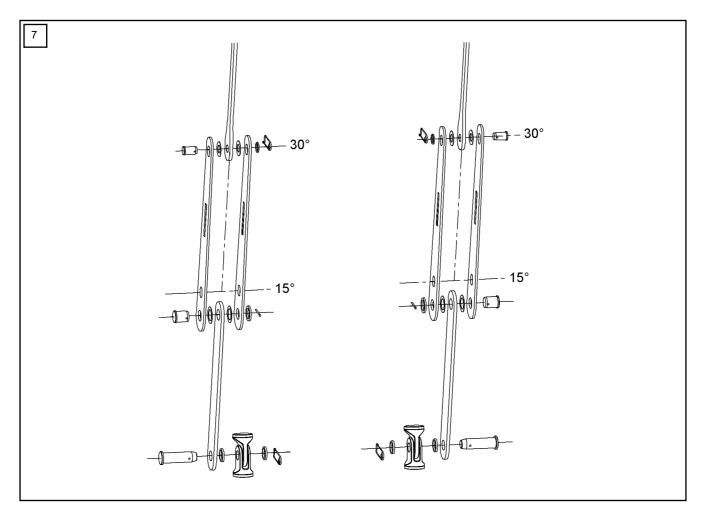
2. FIXED JIB 0806

Detail X LR1130



1 affected by the modification

Detail Y LR1130

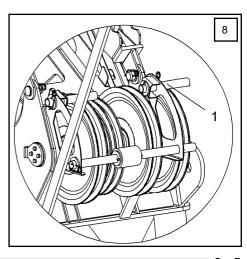


The bolting illustrated here shows the jib angle at 30° . The lower bolting point must be used for a jib angle of 15° .

Detail Z LR1130

The rope guard tube on the main boom head (Fig. 8, item 1) must be fitted outwards.

1 Rope guard tube



2.2 Fixed jib 0806 from LR1100 to LR1160

If fixed jib 0806, originally supplied with an LR1100, is to be fitted to an LR1160, this modification kit must be used.

2.2.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting
- 2x polyamide supports

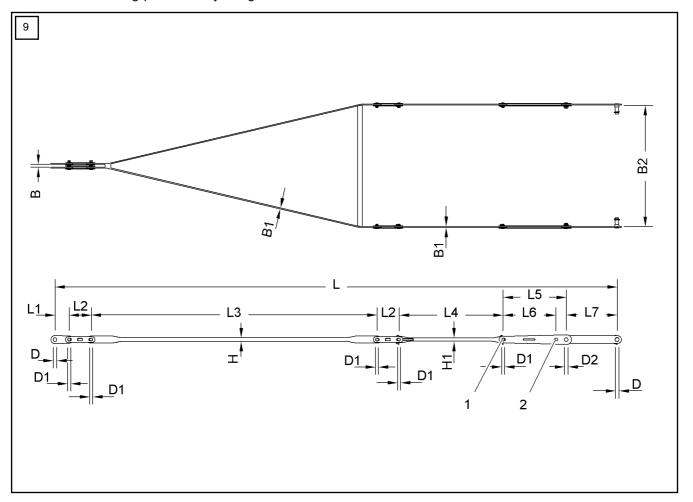
Polyamide supports

Included with the equipment supplied:

- 2x polyamide supports
- 4x pipe clamps
- Fastening materials

Crossbar with coupling links and bolting

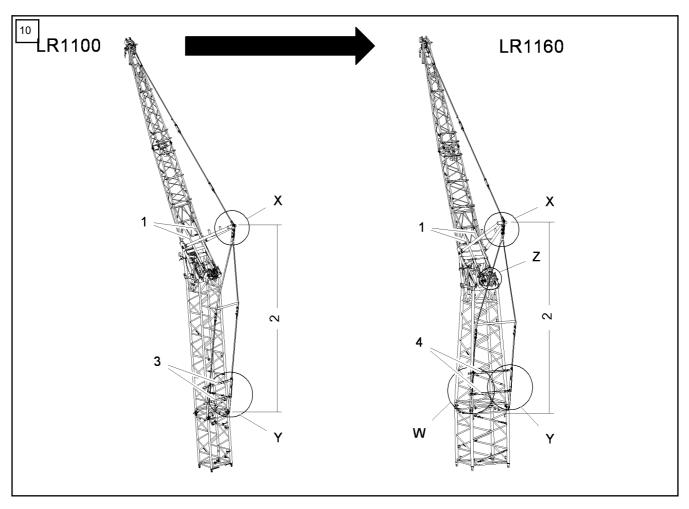
- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



- 50 mm [1.96"] В
- **B1** 18 mm [0.7"]
- **B2** 2148 mm [7.04 ft]
- Ø 65 mm [2.55"] D
- **D1** Ø 45 mm [1.77"]
- **D2** Ø 60 mm [2.3"]
- 64 mm [2.5"] Н
- **H1** 54 mm [2.1"]

- 9950 mm [32.6 ft]
- **L1** 250 mm [9.8"]
- **L2** 390 mm [15.3"]
- **L3** 5060 mm [16.6 ft]
- **L4** 1842 mm [6.04 ft]
- **L5** 1118 mm [43.8"]
- **L6** 925 mm [36.4"]
- **L7** 900 mm [35.4"]

2.2.2 Assembly and dismantling



- Tilting-back supports
- 2 Crossbar with coupling links
- Polyamide supports LR1100 3
- Polyamide supports LR1160

- W Detail W
- Detail X X
- Υ Detail Y
- Ζ Detail Z

If fixed jib 0806, originally supplied with an LR1100, is to be fitted to an LR1160, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 10, item 2).
- Polyamide supports (Fig. 10, item 4).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

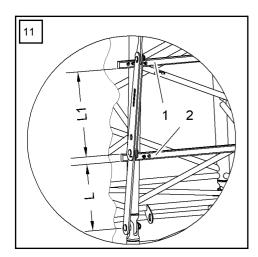
- Mount the polyamide supports on the main boom head LR1160 (see Detail W).
- Remove the crossbar and coupling links LR1100.
- Fit the crossbar and coupling links from the modification kit (see Detail X and Y).
- Fit the rope guard tube on the main boom head outwards (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1160



IMPORTANT!

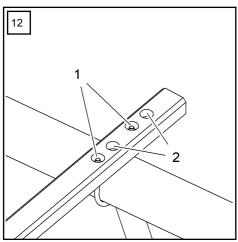
The polyamide coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.



Length L (Fig. 11, item L) is from the bolting point on the main boom head to the start of the polyamide support.

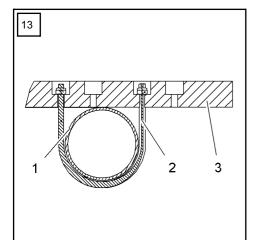
The supports are 2300 mm [90.5"] long

- 1 Upper polyamide support
- Lower polyamide support 2
- L 764 mm [2.5 ft]
- L1 972 mm [3.18 ft]



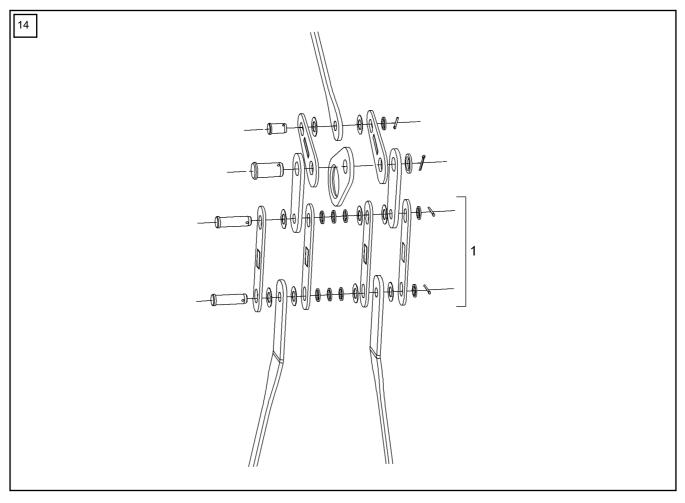
Polyamide supports

- Holes for the upper polyamide support.
- 2 Holes for the lower polyamide support.



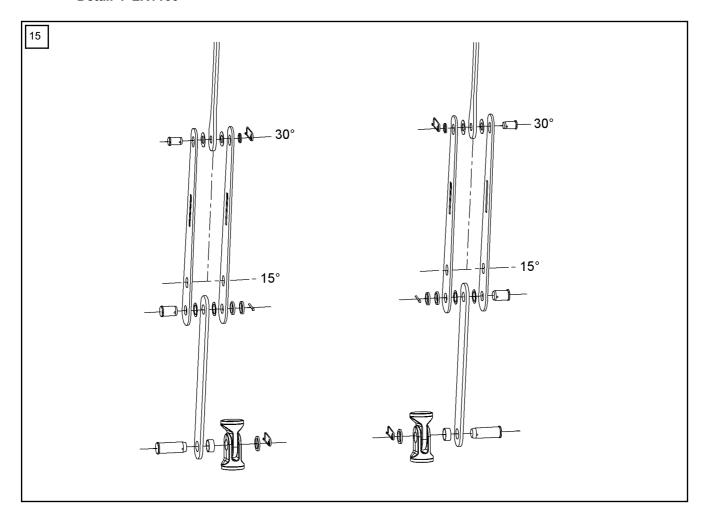
Fastening

- Chord pipe 1
- Pipe clamp 2
- Polyamide support



1 affected by the modification

Detail Y LR1160

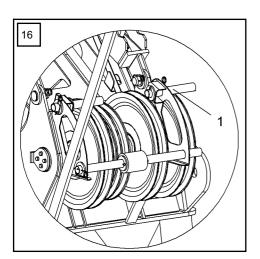


The bolting illustrated here shows the jib angle at 30° . The lower bolting point must be used for a jib angle of 15° .

Detail Z LR1160

The rope guard tube on the main boom head (Fig. 16, item 1) must be fitted outwards.

1 Rope guard tube



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2.3 Fixed jib 0806 from LR1100 to LR1200

If fixed jib 0806, originally supplied with an LR1100, is to be fitted to an LR1200/LR1200SX, this modification kit must be used.

2.3.1 Product description

The modification kit contains the following components:

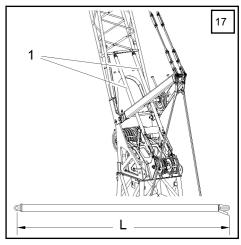
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

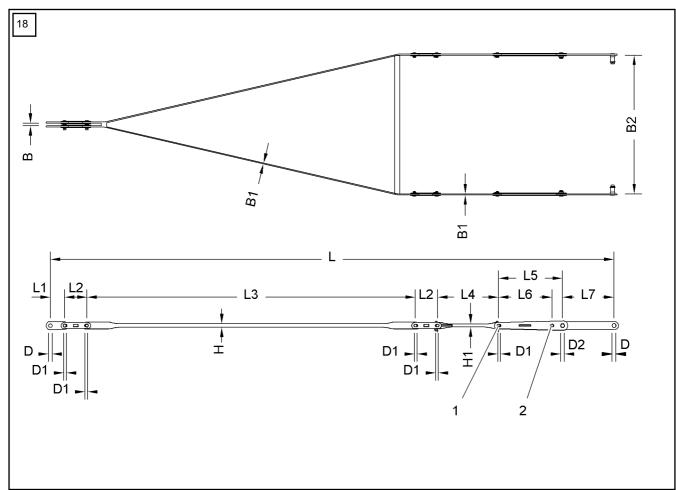
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 2425 mm [95.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 50 mm [1.96"]

B1 18 mm [0.7"]

B2 2450 mm [8.04 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 60 mm [2.3"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9850 mm [32.3 ft]

L1 250 mm [9.8"]

L2 390 mm [15.3"]

L3 3997 mm [13.11 ft]

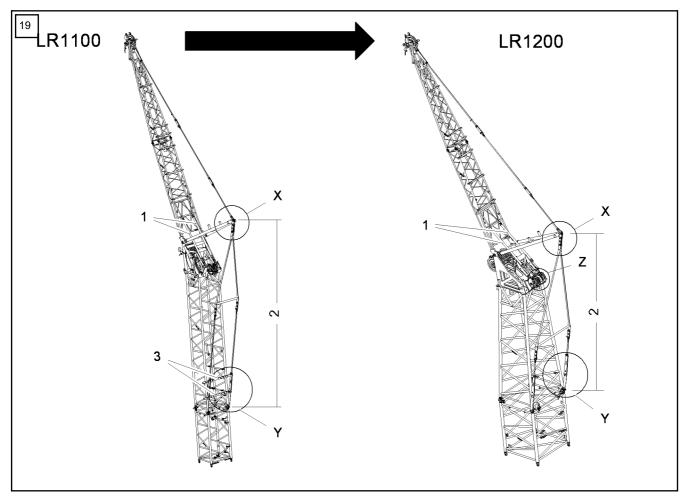
L4 2805 mm [9.2 ft]

L5 1118 mm [43.8"]

L6 925 mm [36.4"]

L7 900 mm [35.4"]

2.3.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link
- 3 Polyamide supports LR1100

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1100, is to be fitted to an LR1200/LR1200SX, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 19, item 2).
- Tilting-back supports (Fig. 19, item 1).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



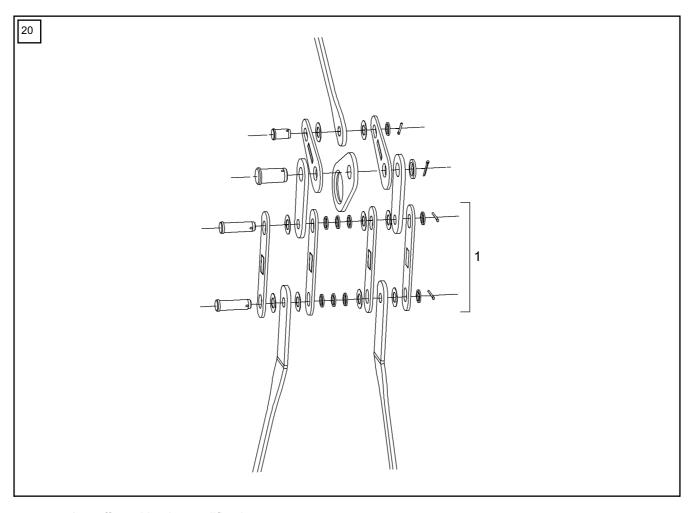
NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

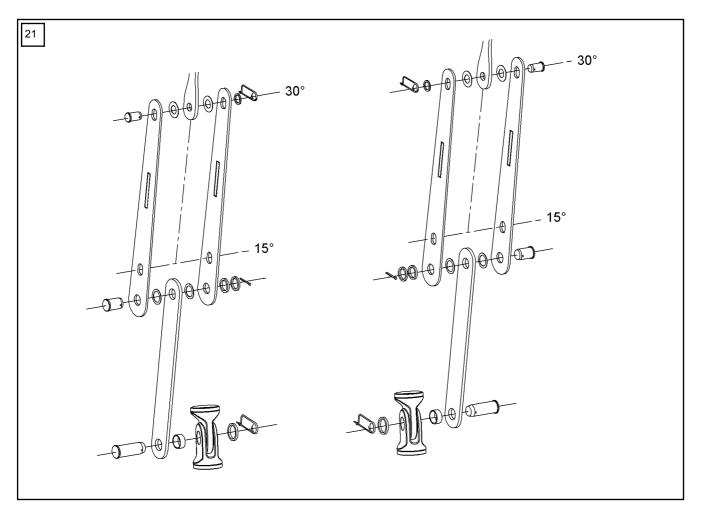
- Remove the crossbar and coupling links LR1100.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1100.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1200/LR1200SX



1 affected by the modification

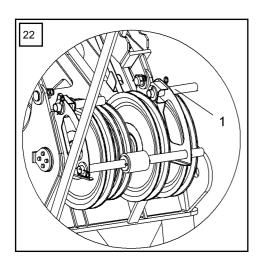
Detail Y LR1200/LR1200SX



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1200/LR1200SX

The upper rope guard tube on the main boom head (Fig. 22, item 1) must be removed.



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2.4 Fixed jib 0806 from LR1100 to LR1280

If fixed jib 0806, originally supplied with an LR1100, is to be fitted to an LR1280, this modification kit must be used.

2.4.1 Product description

The modification kit contains the following components:

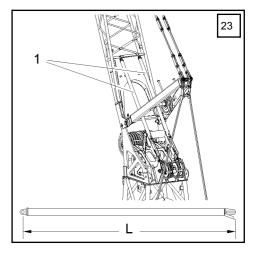
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

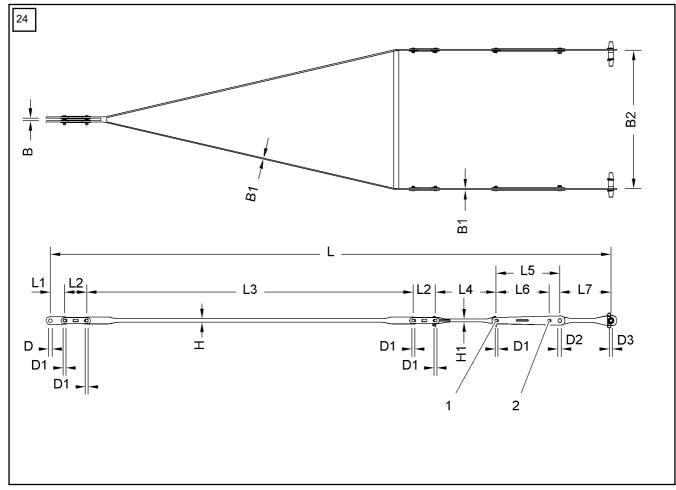
Tilting-back supports

- 1 Tilting-back supports
- **L** Total length = 2425 mm [95.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 50 mm [1.96"]

B1 18 mm [0.7"]

B2 2450 mm [8.04 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 60 mm [2.3"]

D3 Ø 80 mm [3.14"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9850 mm [32.3 ft]

L1 250 mm [9.8"]

L2 390 mm [15.3"]

L3 5738 mm [18.8 ft]

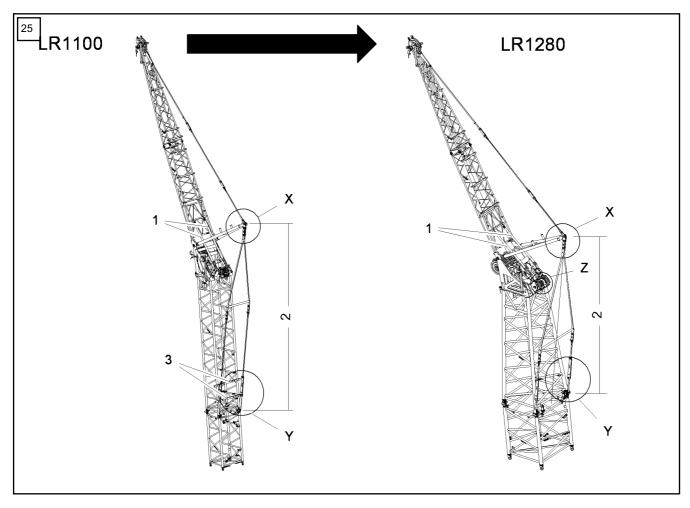
L4 1064 mm [3.49 ft]

L5 1118 mm [43.8"]

L6 925 mm [36.4"]

L7 900 mm [35.4"]

2.4.2 Assembly and dismantling



- 1 Tilting-back supports
- **2** Crossbar with coupling link
- 3 Polyamide supports LR1100

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1100, is to be fitted to an LR1280, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 25, item 2).
- Tilting-back supports (Fig. 25, item 1).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



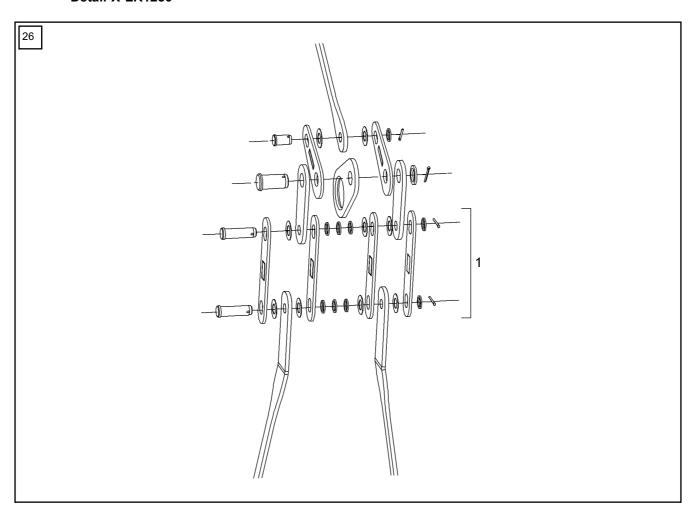
NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

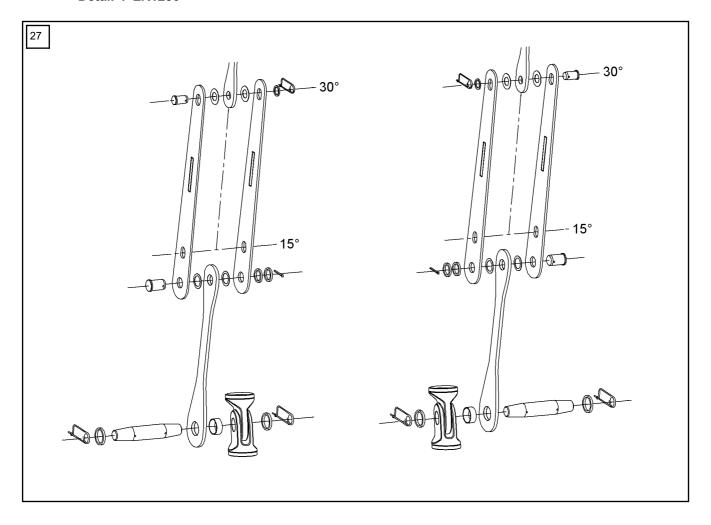
- Remove the crossbar and coupling links LR1100.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1100.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1280



1 affected by the modification

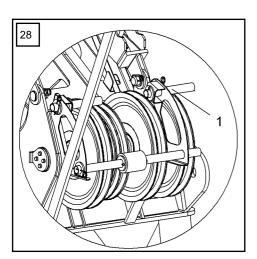
Detail Y LR1280



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1280

The upper rope guard tube on the main boom head (Fig. 28, item 1) must be removed.



2.5 Fixed jib 0806 from LR1130 to LR1100

If fixed jib 0806, originally supplied with an LR1130, is to be fitted to an LR1100, this modification kit must be used.

2.5.1 Product description

The modification kit contains the following components:

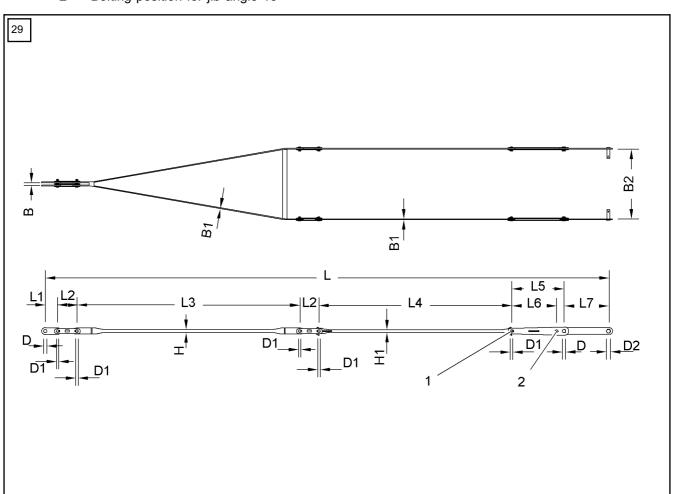
- 1x crossbar with coupling links and bolting
- 2x polyamide supports

Polyamide supports

Included with the equipment supplied:

- 2x polyamide supports
- 4x pipe clamps
- Fastening materials

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



B 50 mm [1.96"]

B1 18 mm [0.7"]

B2 1415 mm [4.6 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 60 mm [2.3"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 11400 mm [37.4 ft]

L1 250 mm [9.8"]

L2 390 mm [15.3"]

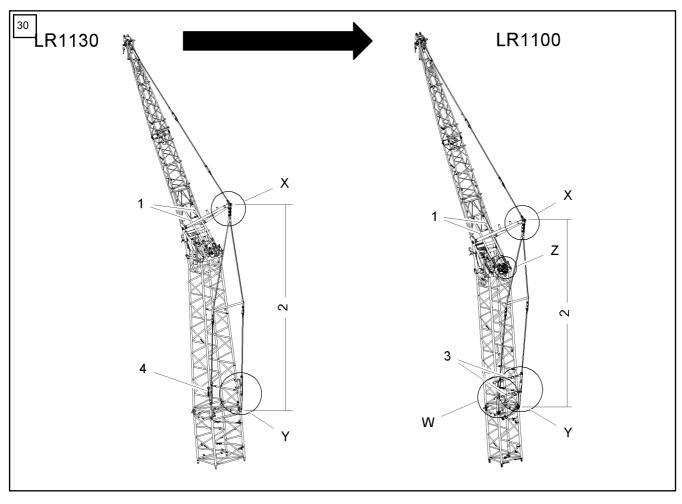
L3 4510 mm [14.8 ft]

L4 3900 mm [12.8 ft] **L5** 1060 mm [3.4 ft]

L6 900 mm [35.4"]

L7 900 mm [35.4"]

2.5.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling links
- 3 Polyamide supports LR1100
- 4 Coupling link supports LR1130

- W Detail W
- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1130, is to be fitted to an LR1100, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 30, item 2).
- Polyamide supports (Fig. 30, item 3).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

- Mount the polyamide supports on the main boom head LR1100 (see Detail W).
- Remove the crossbar and coupling links LR1130.
- Fit the crossbar and coupling links from the modification kit (see Detail X and Y).
- Fit the rope guard tube on the main boom head outwards (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1100



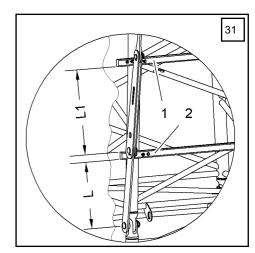
IMPORTANT!

The polyamide coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.

Length L (Fig. 31, item L) is from the bolting point on the main boom head to the start of the polyamide support.

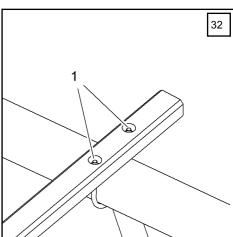
The supports are 1800 mm [70.8"] long

- 1 Upper polyamide support
- 2 Lower polyamide support
- **L** 785 mm [29.8"]
- **L1** 795 mm [31.2"]



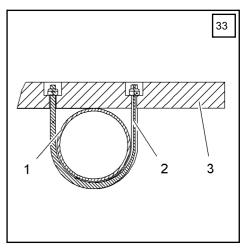
Polyamide supports

1 Holes for the two polyamide supports.



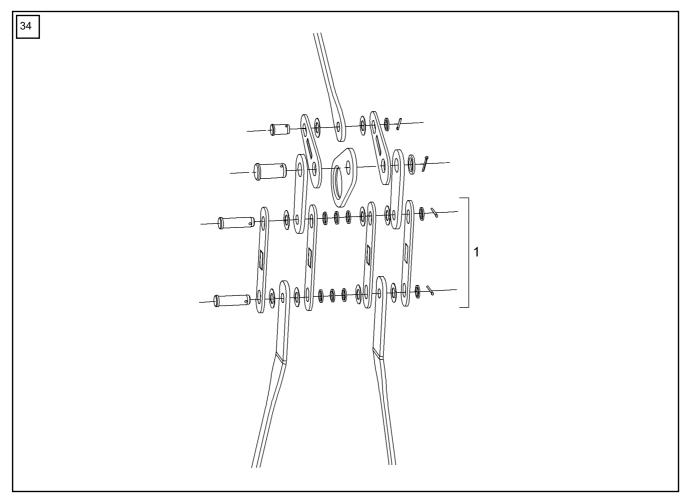
Fastening

- 1 Chord pipe
- 2 Pipe clamp
- 3 Polyamide support



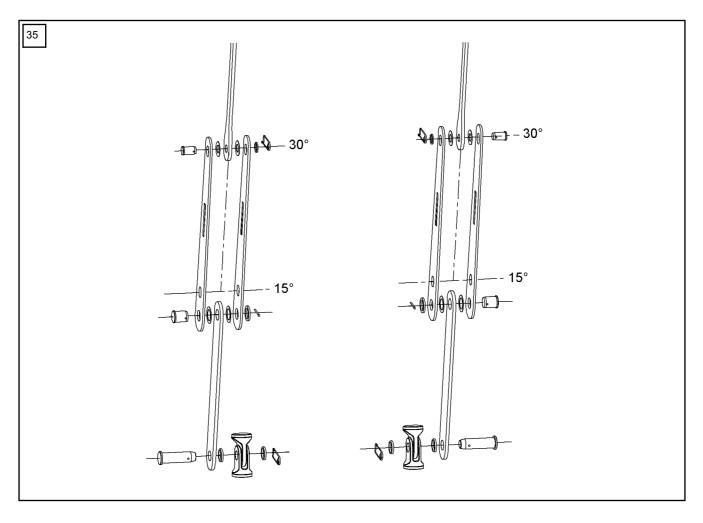
2. FIXED JIB 0806

Detail X LR1100



1 affected by the modification

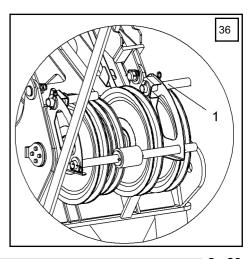
Detail Y LR1100



The bolting illustrated here shows the jib angle at 30° . The lower bolting point must be used for a jib angle of 15° .

Detail Z LR1100

The rope guard tube on the main boom head (Fig. 36, item 1) must be fitted outwards.



2.6 Fixed jib 0806 from LR1130 to LR1160

If fixed jib 0806, originally supplied with an LR1130, is to be fitted to an LR1160, this modification kit must be used.

2.6.1 Product description

The modification kit contains the following components:

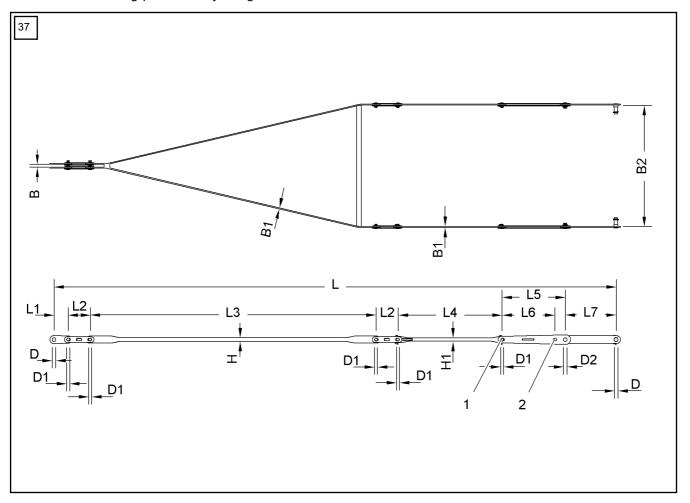
- 1x crossbar with coupling links and bolting
- 2x polyamide supports

Polyamide supports

Included with the equipment supplied:

- 2x polyamide supports
- 4x pipe clamps
- Fastening materials

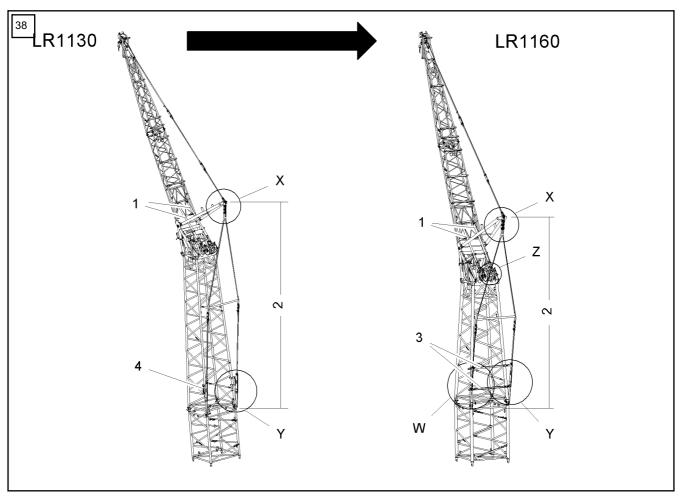
- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



- **B** 50 mm [1.96"]
- **B1** 18 mm [0.7"]
- **B2** 2148 mm [7.04 ft]
- **D** Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **D2** Ø 60 mm [2.3"]
- **H** 64 mm [2.5"]
- **H1** 54 mm [2.1"]

- L 9950 mm [32.6 ft]
- **L1** 250 mm [9.8"]
- **L2** 390 mm [15.3"]
- **L3** 5060 mm [16.6 ft]
- **L4** 1842 mm [6.04 ft]
- **L5** 1118 mm [43.8"]
- **L6** 925 mm [36.4"]
- **L7** 900 mm [35.4"]

2.6.2 Assembly and dismantling



- 1 Tilting-back supports
- **2** Crossbar with coupling link
- 3 Polyamide supports LR1160
- 4 Polyamide supports LR1100

- W Detail W
- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1130, is to be fitted to an LR1160, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 38, item 2).
- Polyamide supports (Fig. 38, item 3).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

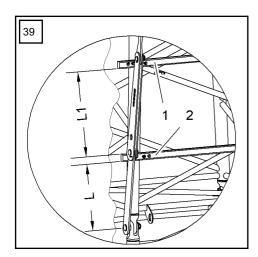
- Mount the polyamide supports on the main boom head LR1160 (see Detail W).
- Remove the crossbar and coupling links LR1100.
- Fit the crossbar and coupling links from the modification kit (see Detail X and Y).
- Fit the rope guard tube on the main boom head outwards (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1160



IMPORTANT!

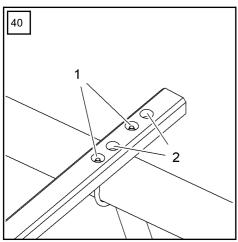
The polyamide coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.



Length L (Fig. 39, item L) is from the bolting point on the main boom head to the start of the polyamide support.

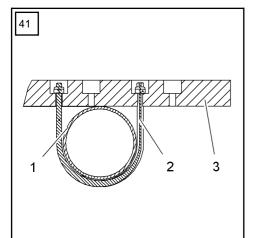
The supports are 2300 mm [90.5"] long

- 1 Upper polyamide support
- Lower polyamide support 2
- L 764 mm [2.5 ft]
- L1 972 mm [3.18 ft]



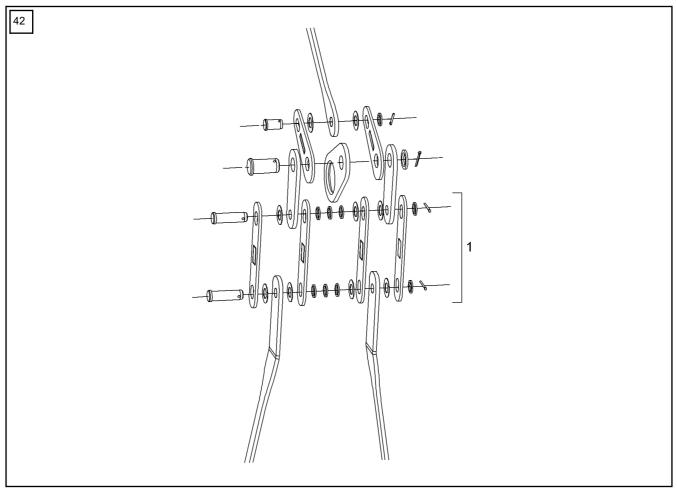
Polyamide supports

- Holes for the upper polyamide support.
- 2 Holes for the lower polyamide support.



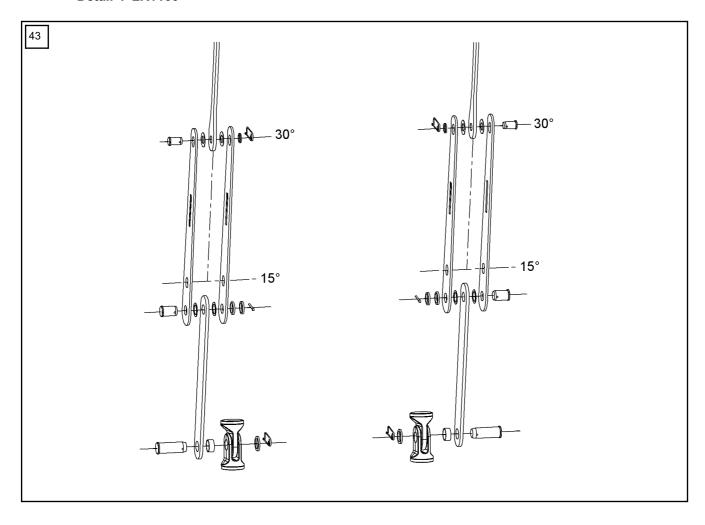
Fastening

- Chord pipe 1
- Pipe clamp 2
- Polyamide support



1 affected by the modification

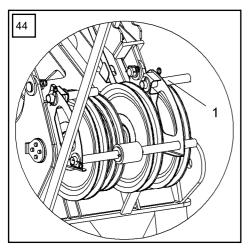
Detail Y LR1160



The bolting illustrated here shows the jib angle at 30° . The lower bolting point must be used for a jib angle of 15° .

Detail Z LR1160

The rope guard tube on the main boom head (Fig. 44, item 1) must be fitted outwards.



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2.7 Fixed jib 0806 from LR1130 to LR1200

If fixed jib 0806, originally supplied with an LR1130, is to be fitted to an LR1200/LR1200SX, this modification kit must be used.

2.7.1 Product description

The modification kit contains the following components:

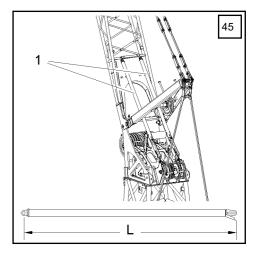
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

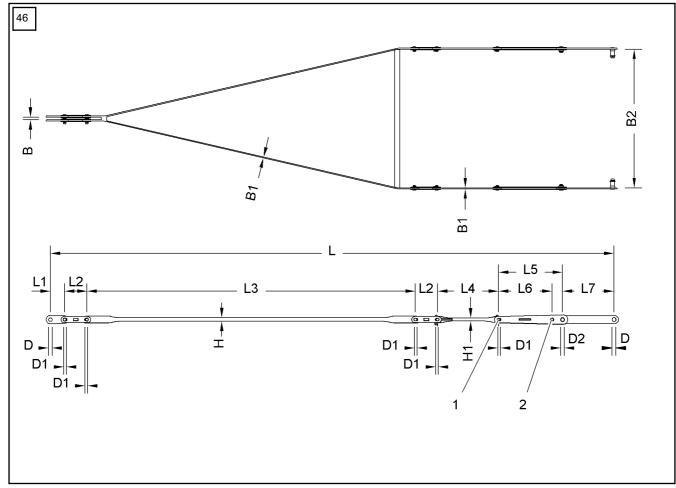
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 2425 mm [95.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 50 mm [1.96"]

B1 18 mm [0.7"]

B2 2450 mm [8.04 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 60 mm [2.3"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9850 mm [32.3 ft]

L1 250 mm [9.8"]

L2 390 mm [15.3"]

L3 3997 mm [13.11 ft]

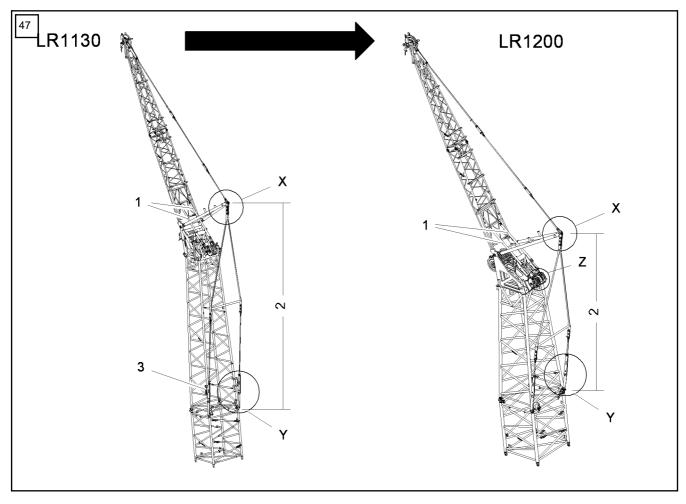
L4 2805 mm [9.2 ft]

L5 1118 mm [43.8"]

L6 925 mm [36.4"]

L7 900 mm [35.4"]

2.7.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link
- 3 Polyamide supports LR1100

- X Detail X
- Y Detail Y
- Z Detail Z

If fixed jib 0806, originally supplied with an LR1130, is to be fitted to an LR1200/LR1200SX, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 47, item 2).
- Tilting-back supports (Fig. 47, item 1).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



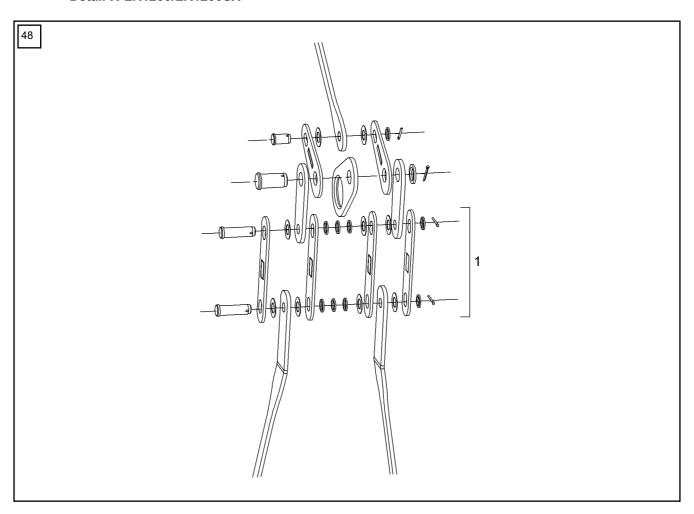
NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

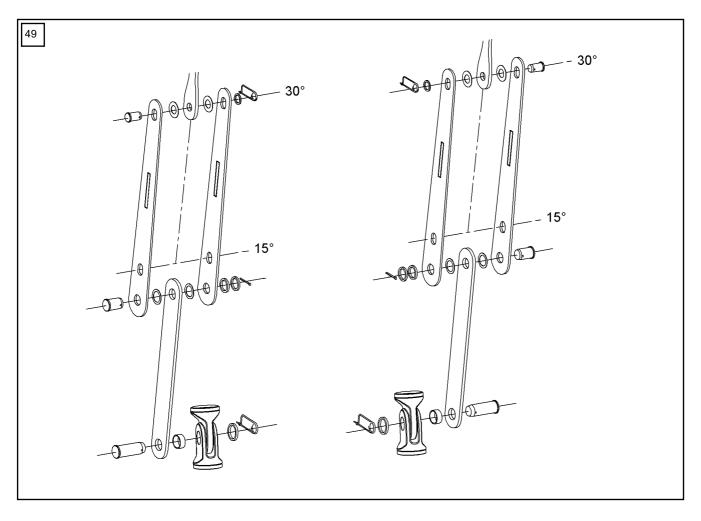
- Remove the crossbar and coupling links LR1130.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1130.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1200/LR1200SX



1 affected by the modification

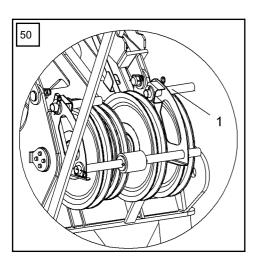
Detail Y LR1200/LR1200SX



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1200/LR1200SX

The upper rope guard tube on the main boom head (Fig. 50, item 1) must be removed.



R UBS V003 (al) LWN - TD7/5/20

2.8 Fixed jib 0806 from LR1130 to LR1280

If fixed jib 0806, originally supplied with an LR1130, is to be fitted to an LR1280, this modification kit must be used.

2.8.1 Product description

The modification kit contains the following components:

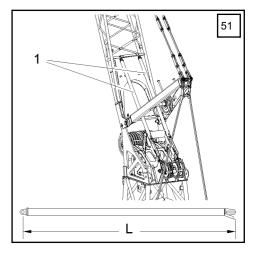
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

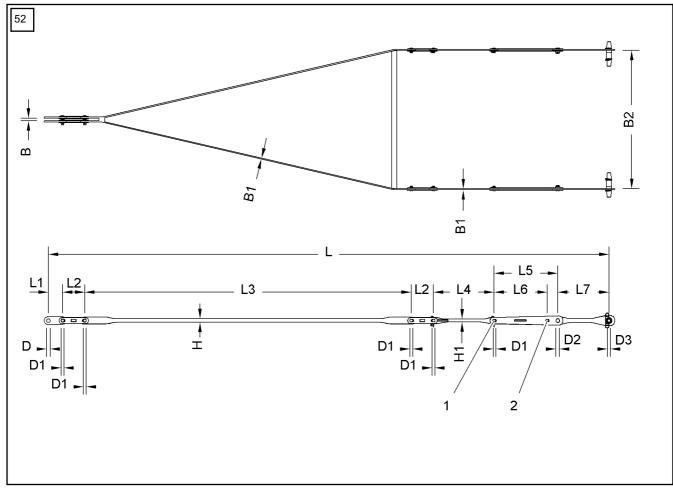
Tilting-back supports

- 1 Tilting-back supports
- **L** Total length = 2425 mm [95.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 50 mm [1.96"]

B1 18 mm [0.7"]

B2 2450 mm [8.04 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 60 mm [2.3"]

D3 Ø 80 mm [3.14"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9850 mm [32.3 ft]

L1 250 mm [9.8"]

L2 390 mm [15.3"]

L3 3997 mm [13.11 ft]

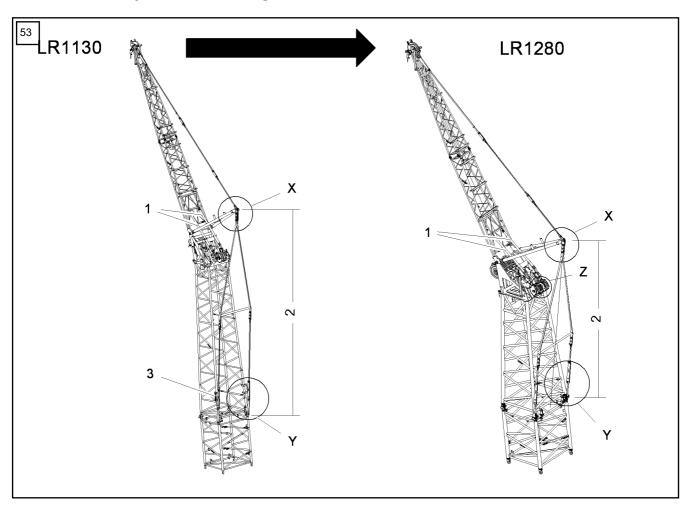
L4 2805 mm [9.2 ft]

L5 1118 mm [43.8"]

L6 925 mm [36.4"]

L7 900 mm [35.4"]

2.8.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link
- 3 Coupling link supports LR1130

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1130, is to be fitted to an LR1280, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 53, item 2).
- Tilting-back supports (Fig. 53, item 1).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



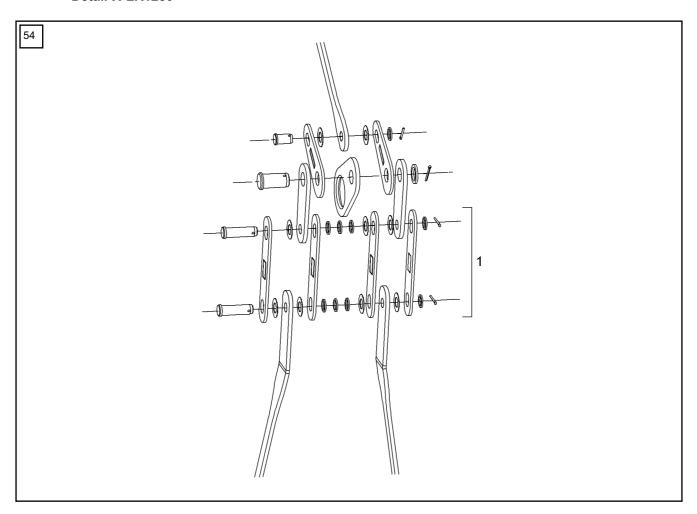
NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

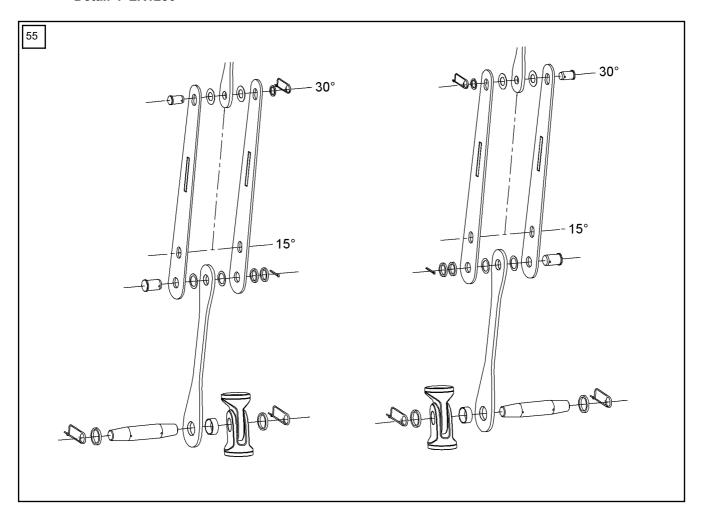
- Remove the crossbar and coupling links LR1130.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1130.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1280



1 affected by the modification

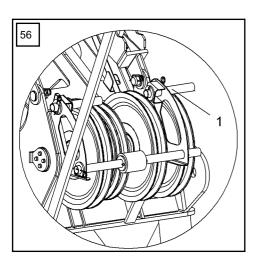
Detail Y LR1280



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1280

The upper rope guard tube on the main boom head (Fig. 56, item 1) must be removed.



2.9 Fixed jib 0806 from LR1160 to LR1100

If fixed jib 0806, originally supplied with an LR1160, is to be fitted to an LR1100, this modification kit must be used.

2.9.1 Product description

The modification kit contains the following components:

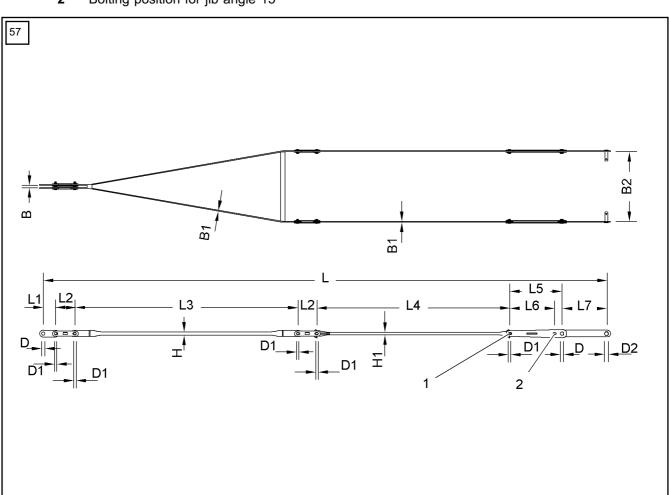
- 1x crossbar with coupling links and bolting
- 2x polyamide supports

Polyamide supports

Included with the equipment supplied:

- 2x polyamide supports
- 4x pipe clamps
- Fastening materials

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



B 50 mm [1.96"]

B1 18 mm [0.7"]

B2 1415 mm [4.6 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 60 mm [2.3"]

64 mm [2.5"] Н

H1 54 mm [2.1"]

11400 mm [37.4 ft]

L1 250 mm [9.8"]

L2 390 mm [15.3"]

L3 4510 mm [14.8 ft]

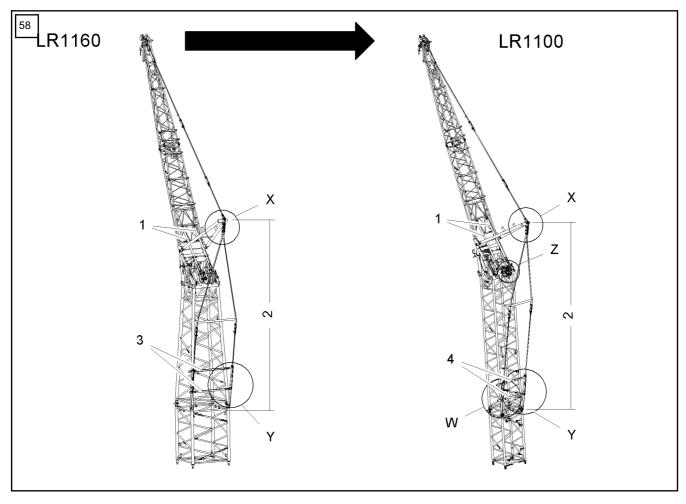
L4 3900 mm [12.8 ft]

L5 1060 mm [3.4 ft]

L6 900 mm [35.4"]

L7 900 mm [35.4"]

2.9.2 Assembly and dismantling



- Tilting-back supports
- 2 Crossbar with coupling link
- 3 Polyamide supports LR1160
- Polyamide supports LR1100

- Detail W
- Detail X X
- Detail Y
- Ζ Detail Z

If fixed jib 0806, originally supplied with an LR1160, is to be fitted to an LR1100, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 58, item 2).
- Polyamide supports (Fig. 58, item 4).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

- Mount the polyamide supports on the main boom head LR1100 (see Detail W).
- Remove the crossbar and coupling links LR1160.
- Fit the crossbar and coupling links from the modification kit (see Detail X and Y).
- Fit the rope guard tube on the main boom head outwards (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1100



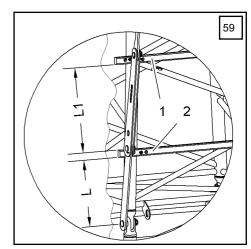
IMPORTANT!

The polyamide coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.

Length L (Fig. 59, item L) is from the bolting point on the main boom head to the start of the polyamide support.

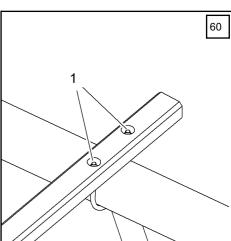
The supports are 1800 mm [70.8"] long

- 1 Upper polyamide support
- 2 Lower polyamide support
- **L** 785 mm [29.8"]
- **L1** 795 mm [31.2"]



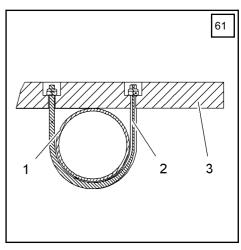
Polyamide supports

1 Holes for the two polyamide supports.



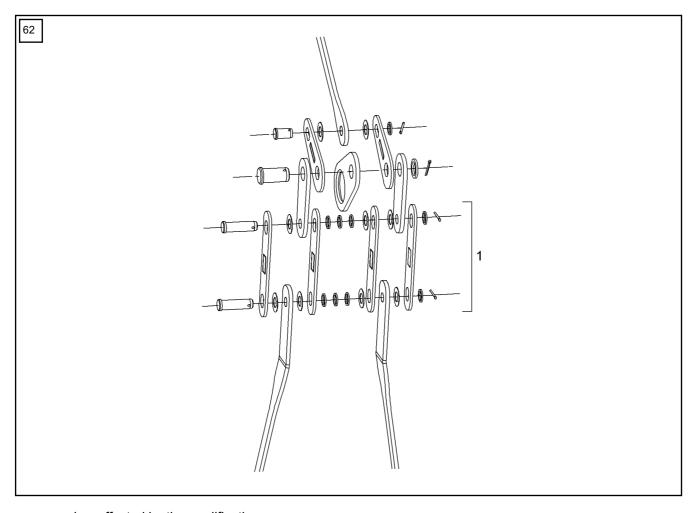
Fastening

- 1 Chord pipe
- 2 Pipe clamp
- 3 Polyamide support



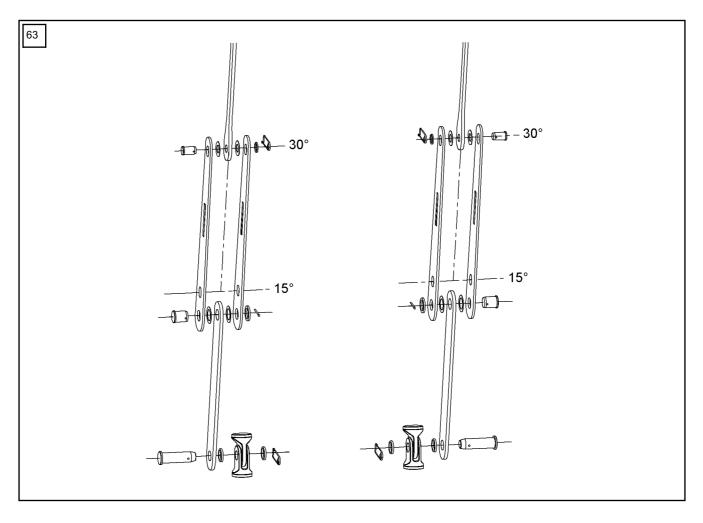
2. FIXED JIB 0806

Detail X LR1100



1 affected by the modification

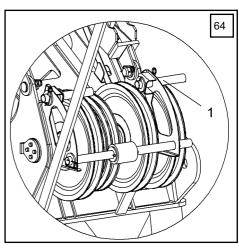
Detail Y LR1100



The bolting illustrated here shows the jib angle at 30° . The lower bolting point must be used for a jib angle of 15° .

Detail Z LR1100

The rope guard tube on the main boom head (Fig. 64, item 1) must be fitted outwards.



2.10 Fixed jib 0806 from LR1160 to LR1130

If fixed jib 0806, originally supplied with an LR1160, is to be fitted to an LR1130, this modification kit must be used.

2.10.1 Product description

The modification kit contains the following components:

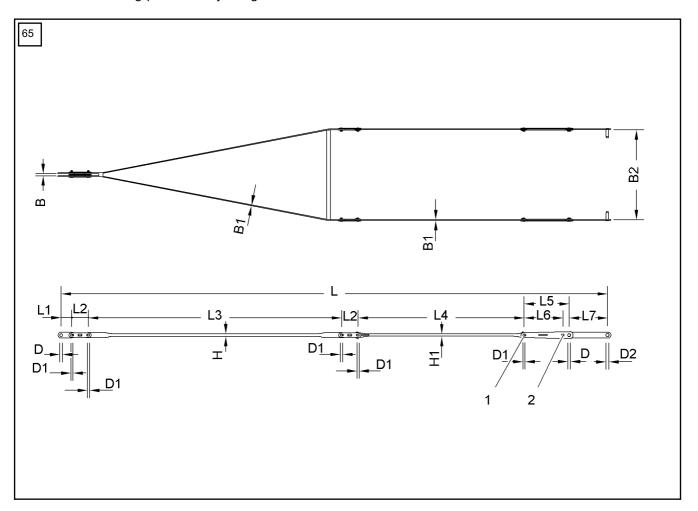
- 1x crossbar with coupling links and bolting
- 2x coupling link supports

Coupling link supports

Included with the equipment supplied:

- 2x coupling link supports
- 4x pipe clamps, 2-part
- Fastening materials

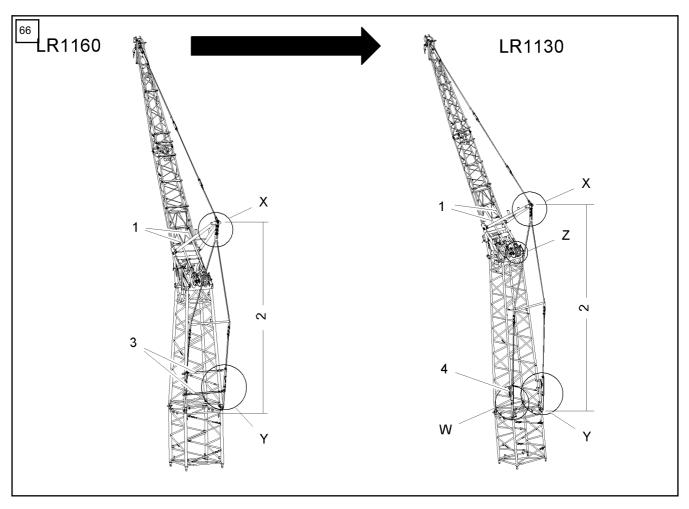
- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



- **B** 50 mm [1.96"]
- **B1** 18 mm [0.7"]
- **B2** 2115 mm [6.9 ft]
- **D** Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **D2** Ø 60 mm [2.3"]
- **H** 64 mm [2.5"]
- **H1** 54 mm [2.1"]

- L 12840 mm [42.1 ft]
- **L1** 250 mm [9.8"]
- **L2** 390 mm [15.3"]
- **L3** 5950 mm [19.5 ft]
- **L4** 3900 mm [12.8 ft]
- **L5** 1060 mm [3.4 ft]
- **L6** 900 mm [35.4"]
- **L7** 900 mm [35.4"]

2.10.2 Assembly and dismantling



- 1 Tilting-back supports
- **2** Crossbar with coupling link
- 3 Polyamide supports LR1160
- 4 Coupling link supports LR1130

- W Detail W
- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1160, is to be fitted to an LR1130, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 66, item 2).
- Coupling link supports (Fig. 66, item 4).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

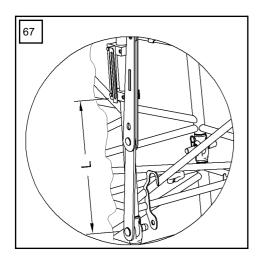
- Mount the coupling link supports on the main boom head LR1130 (see Detail W).
- Remove the crossbar and coupling links LR1160.
- Fit the crossbar and coupling links from the modification kit (see Detail X and Y).
- Fit the rope guard tube on the main boom head outwards (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1130



IMPORTANT!

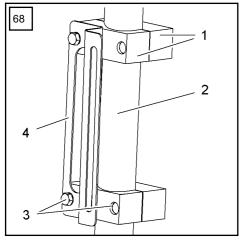
The coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.



Length L (Fig. 67, item L) is from the centre of the bolting point on the main boom head to the start of the support.

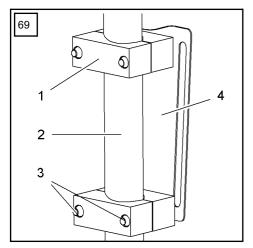
The supports are 520 mm [20.4"] long

1234 mm [48.58"]



Exterior view

- Pipe clamp 1
- 2 Chord pipe
- 3 Fastening materials
- Support

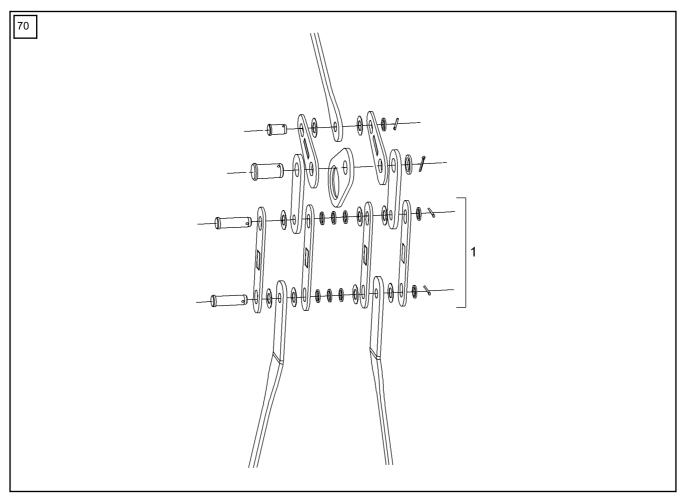


Interior view

- Pipe clamp 1
- Chord pipe 2
- Fastening materials 3
- Support

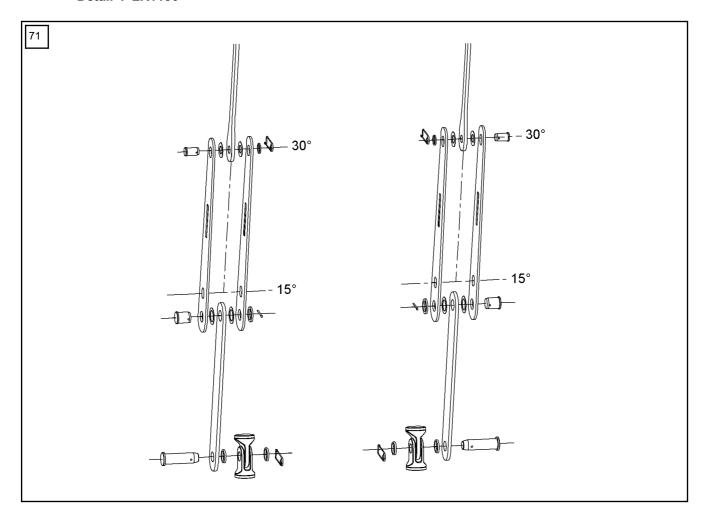
LR_UBS_V003 (gl) LWN - TD7/5/2010

Detail X LR1130



1 affected by the modification

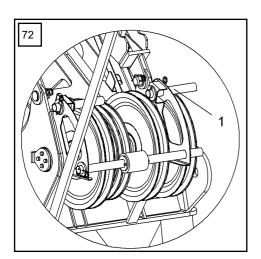
Detail Y LR1130



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1130

The rope guard tube on the main boom head (Fig. 72, item 1) must be fitted outwards.



-R UBS V003 (gl) LWN - TD7/5/20

2.11 Fixed jib 0806 from LR1160 to LR1200

If fixed jib 0806, originally supplied with an LR1160, is to be fitted to an LR1200/LR1200SX, this modification kit must be used.

2.11.1 Product description

The modification kit contains the following components:

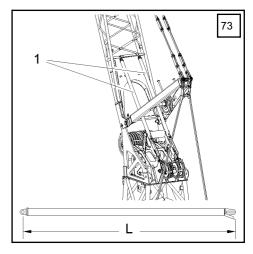
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

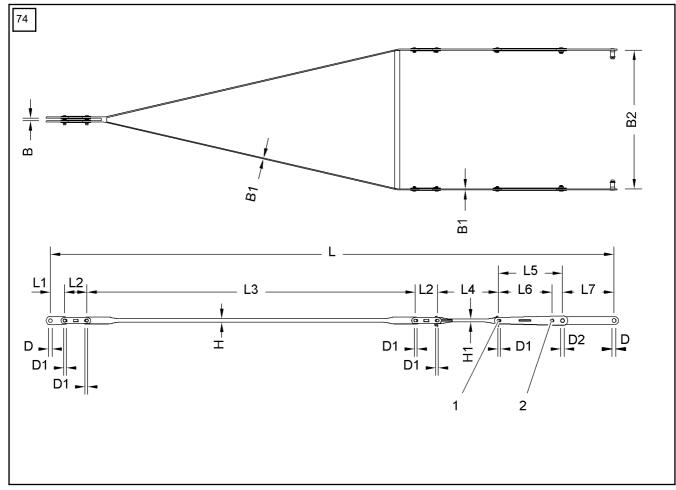
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 2425 mm [95.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 50 mm [1.96"]

B1 18 mm [0.7"]

B2 2450 mm [8.04 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 60 mm [2.3"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9850 mm [32.3 ft]

L1 250 mm [9.8"]

L2 390 mm [15.3"]

L3 3997 mm [13.11 ft]

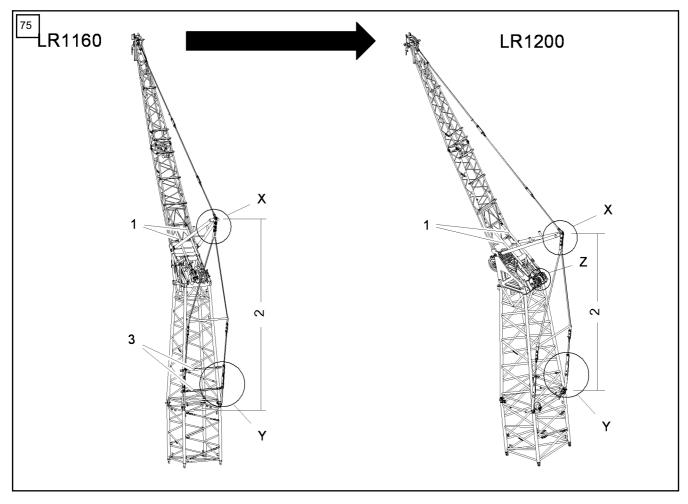
L4 2805 mm [9.2 ft]

L5 1118 mm [43.8"]

L6 925 mm [36.4"]

L7 900 mm [35.4"]

2.11.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link
- 3 Polyamide supports LR1160

- X Detail X
- Y Detail Y
- Z Detail Z

If fixed jib 0806, originally supplied with an LR1160, is to be fitted to an LR1200/LR1200SX, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 75, item 2).
- Tilting-back supports (Fig. 75, item 1).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



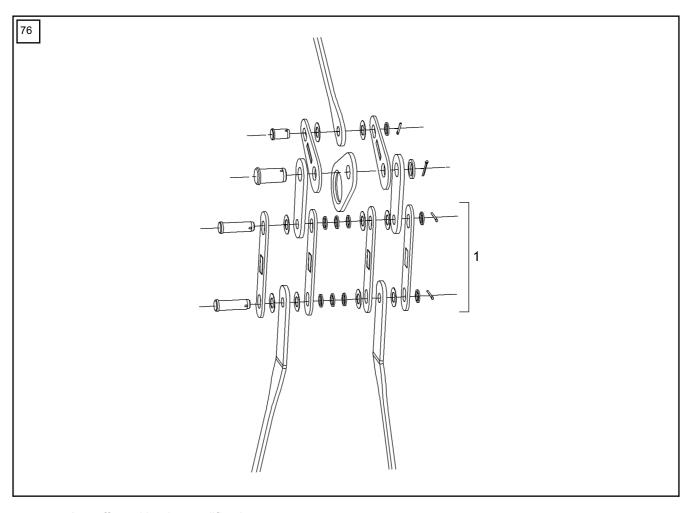
NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

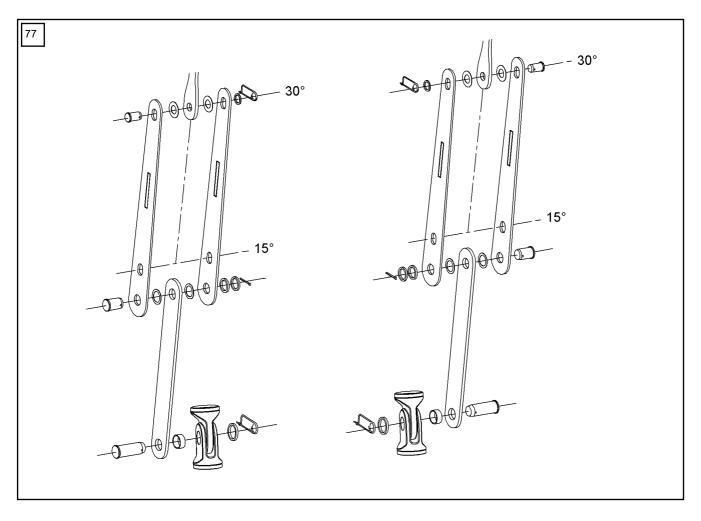
- Remove the crossbar and coupling links LR1160.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1160.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1200/LR1200SX



1 affected by the modification

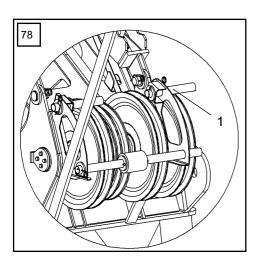
Detail Y LR1200/LR1200SX



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1200/LR1200SX

The upper rope guard tube on the main boom head (Fig. 78, item 1) must be removed.



R UBS V003 (a)) LWN - TD7/5/201

2.12 Fixed jib 0806 from LR1160 to LR1280

If fixed jib 0806, originally supplied with an LR1160, is to be fitted to an LR1280, this modification kit must be used.

2.12.1 Product description

The modification kit contains the following components:

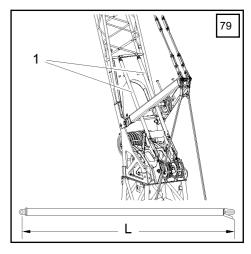
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

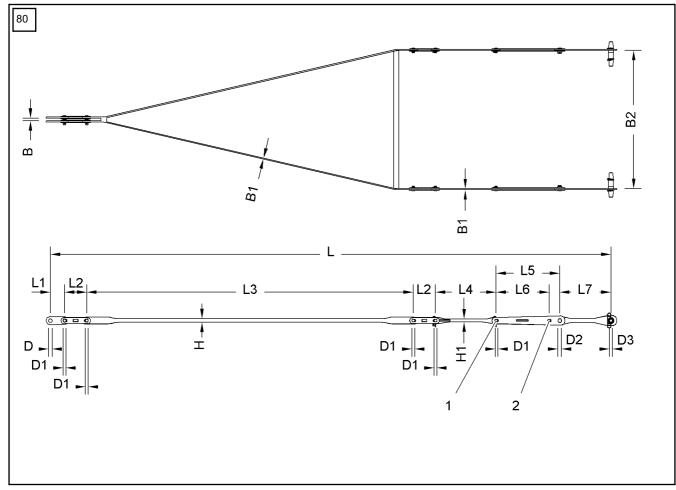
Tilting-back supports

- 1 Tilting-back supports
- **L** Total length = 2425 mm [95.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 50 mm [1.96"]

B1 18 mm [0.7"]

B2 2450 mm [8.04 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 60 mm [2.3"]

D3 Ø 80 mm [3.14"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9850 mm [32.3 ft]

L1 250 mm [9.8"]

L2 390 mm [15.3"]

L3 3997 mm [13.11 ft]

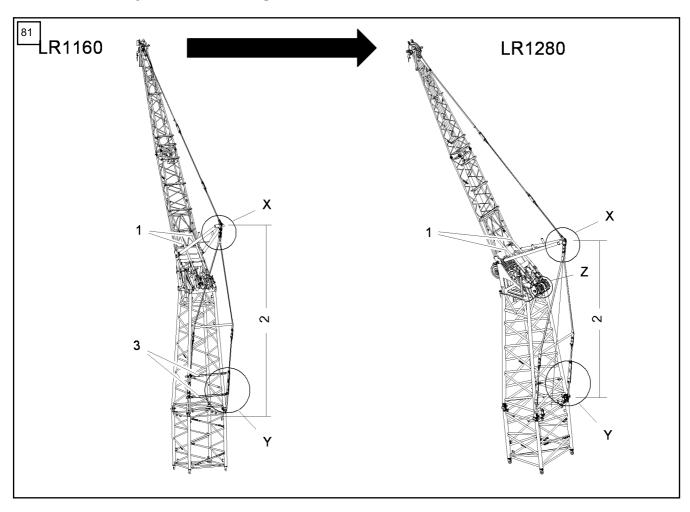
L4 2805 mm [9.2 ft]

L5 1118 mm [43.8"]

L6 925 mm [36.4"]

L7 900 mm [35.4"]

2.12.2 Assembly and dismantling



- 1 Tilting-back supports
- **2** Crossbar with coupling link
- 3 Polyamide supports LR1160

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1160, is to be fitted to an LR1280, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 81, item 2).
- Tilting-back supports (Fig. 81, item 1).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



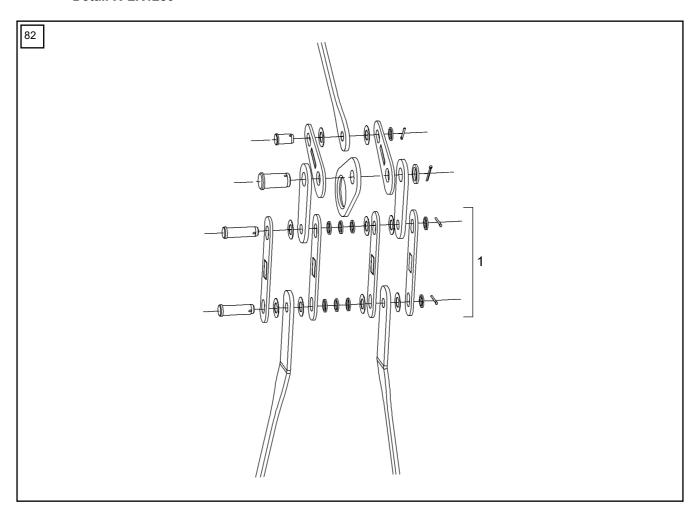
NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

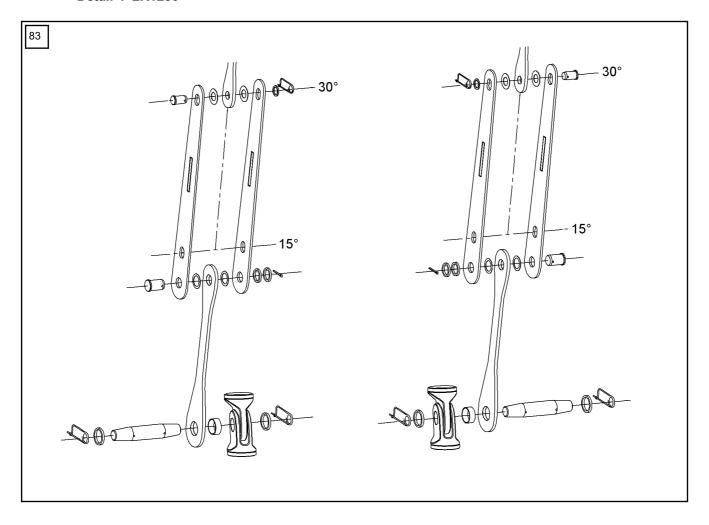
- Remove the crossbar and coupling links LR1160.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1160.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1280



1 affected by the modification

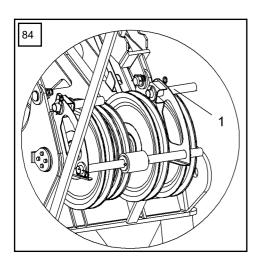
Detail Y LR1280



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1280

The upper rope guard tube on the main boom head (Fig. 84, item 1) must be removed.



2.13 Fixed jib 0806 from LR1200 to LR1100

If fixed jib 0806, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1100, this modification kit must be used.

2.13.1 Product description

The modification kit contains the following components:

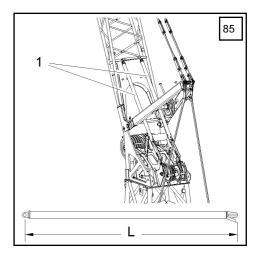
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

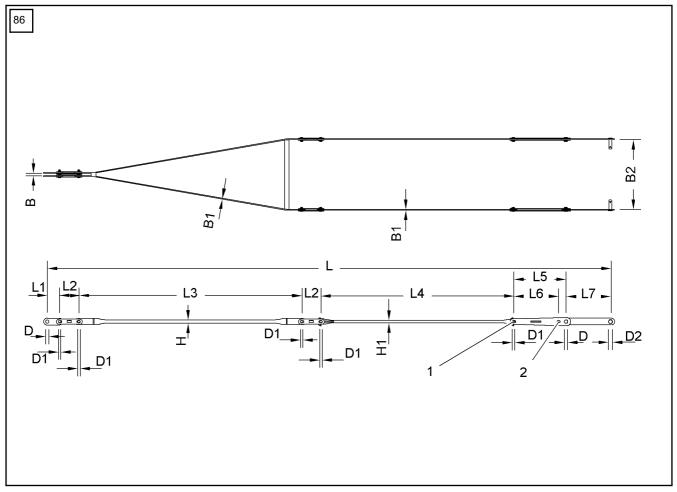
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 2555 mm [100.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 50 mm [1.96"]

B1 18 mm [0.7"]

B2 1415 mm [4.6 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 60 mm [2.3"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 11400 mm [37.4 ft]

L1 250 mm [9.8"]

L2 390 mm [15.3"]

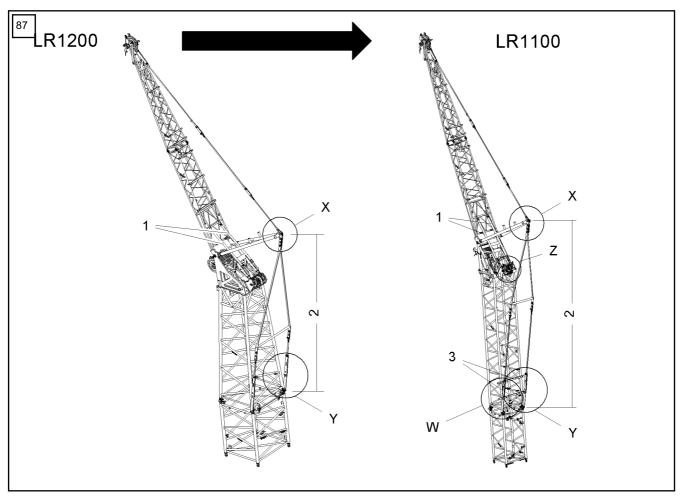
L3 4510 mm [14.8 ft]

L4 3900 mm [12.8 ft] **L5** 1060 mm [3.4 ft]

L6 900 mm [35.4"]

L7 900 mm [35.4"]

2.13.2 Assembly and dismantling



- 1 Tilting-back supports
- **2** Crossbar with coupling link
- 3 Polyamide supports LR1100

- W Detail W
- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1100, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 87, item 2).
- Tilting-back supports (Fig. 87, item 1).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

- Remove the crossbar and coupling links LR1200/LR1200SX.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1200/LR1200SX.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1100

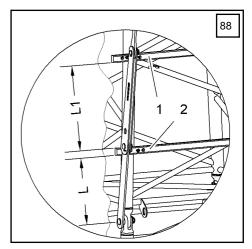


The polyamide coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.

Length L (Fig. 88, item L) is from the bolting point on the main boom head to the start of the polyamide support.

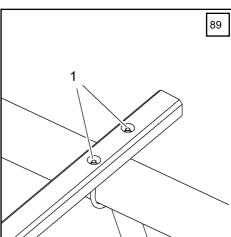
The supports are 1800 mm [70.8"] long

- 1 Upper polyamide support
- 2 Lower polyamide support
- L 785 mm [29.8"]
- L1 795 mm [31.2"]



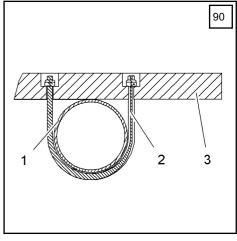
Polyamide supports

Holes for the two polyamide supports.



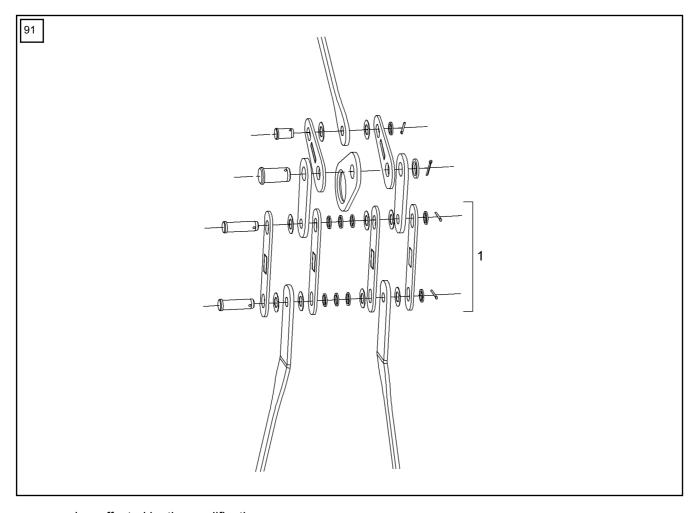
Fastening

- Chord pipe
- Pipe clamp 2
- 3 Polyamide support



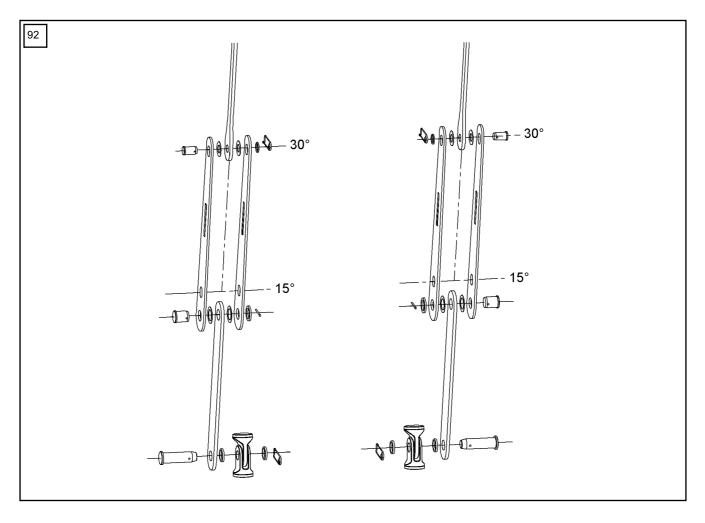
2. FIXED JIB 0806

Detail X LR1100



1 affected by the modification

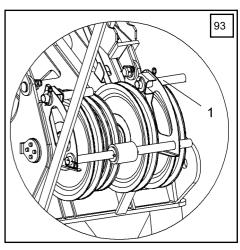
Detail Y LR1100



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1100

The upper rope guard tube on the main boom head (Fig. 93, item 1) must be removed.



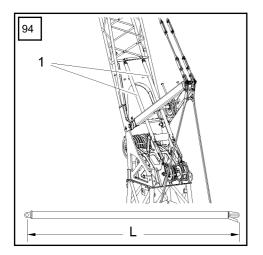
2.14 Fixed jib 0806 from LR1200 to LR1130

If fixed jib 0806, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1130, this modification kit must be used.

2.14.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

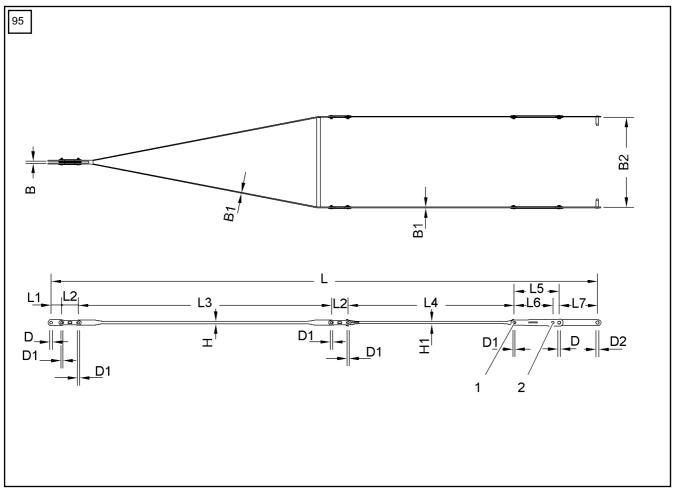


Tilting-back supports

- 1 Tilting-back supports
- L Total length = 2555 mm [100.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

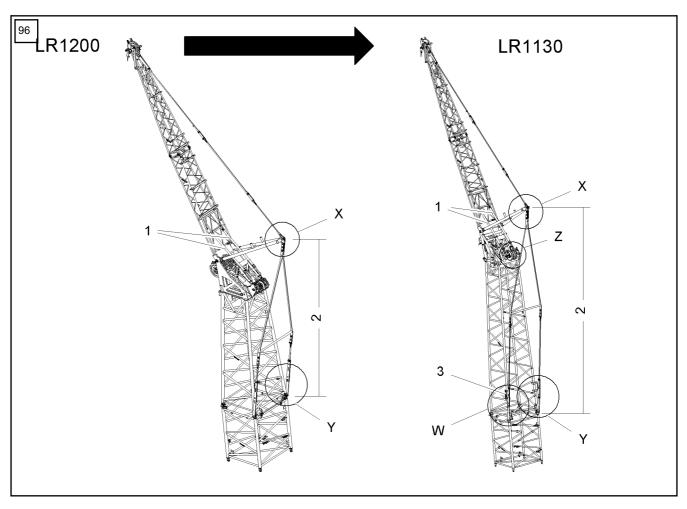
- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



- **B** 50 mm [1.96"]
- **B1** 18 mm [0.7"]
- **B2** 2115 mm [6.9 ft]
- **D** Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **D2** Ø 60 mm [2.3"]
- **H** 64 mm [2.5"] **H1** 54 mm [2.1"]

- **L** 12840 mm [42.1 ft]
- **L1** 250 mm [9.8"]
- **L2** 390 mm [15.3"]
- **L3** 5950 mm [19.5 ft]
- **L4** 3900 mm [12.8 ft]
- **L5** 1060 mm [3.4 ft] **L6** 900 mm [35.4"]
- **L7** 900 mm [35.4"]

2.14.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link
- 3 Coupling link supports LR1130

- W Detail W
- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1130, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 96, item 2).
- Tilting-back supports (Fig. 96, item 1).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

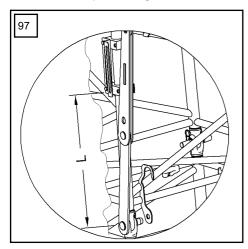
- Remove the crossbar and coupling links LR1200/LR1200SX.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1200/LR1200SX.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1130



IMPORTANT!

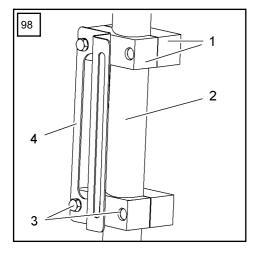
The coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.



1234 mm [48.58"]

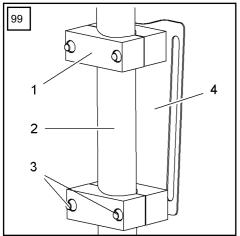
Length L (Fig. 97, item L) is from the centre of the bolting point on the main boom head to the start of the support.

The supports are 520 mm [20.4"] long



Exterior view

- Pipe clamp 1
- 2 Chord pipe
- 3 Fastening materials
- Support

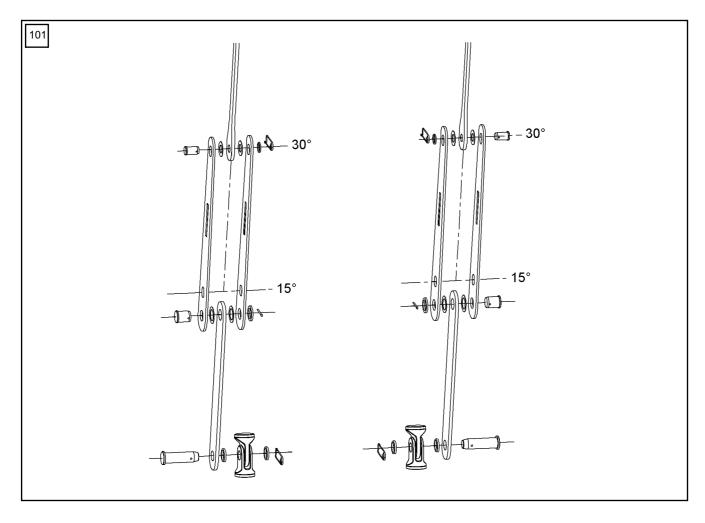


Interior view

- Pipe clamp 1
- Chord pipe 2
- Fastening materials 3
- Support

1 affected by the modification

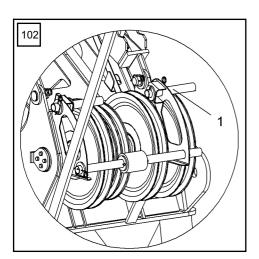
Detail Y LR1130



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1130

The upper rope guard tube on the main boom head (Fig. 102, item 1) must be removed.



2.15 Fixed jib 0806 from LR1200 to LR1160

If fixed jib 0806, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1160, this modification kit must be used.

2.15.1 Product description

The modification kit contains the following components:

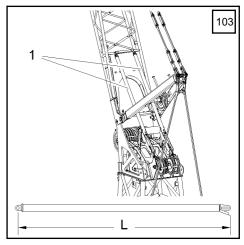
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

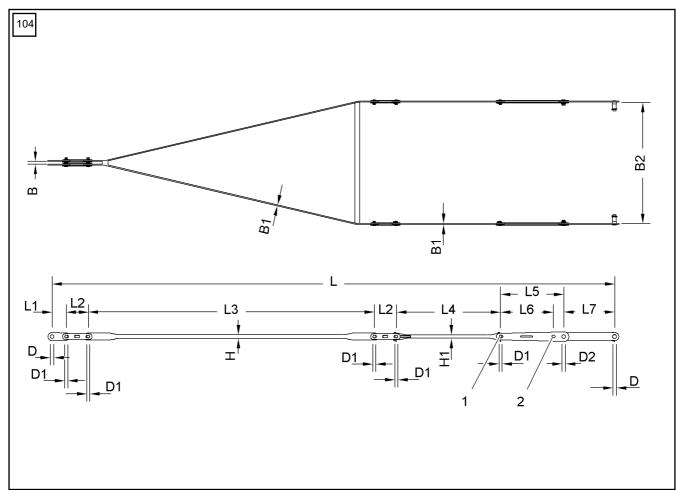
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 2425 mm [95.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°

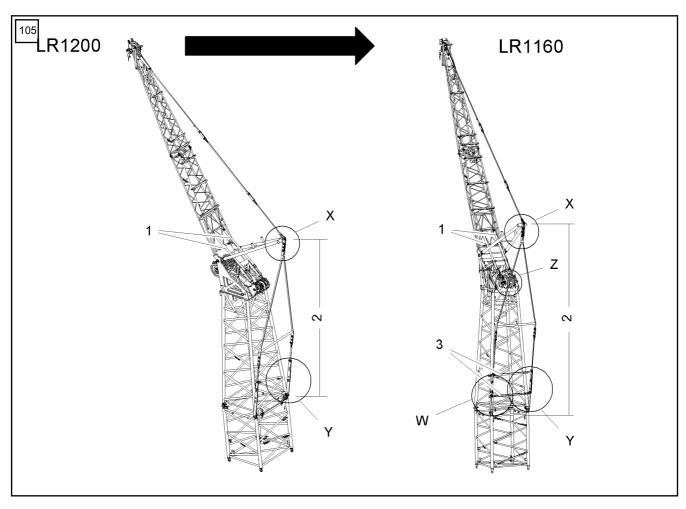




- **B** 50 mm [1.96"]
- **B1** 18 mm [0.7"]
- **B2** 2148 mm [7.04 ft]
- **D** Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **D2** Ø 60 mm [2.3"]
- **H** 64 mm [2.5"]
- **H1** 54 mm [2.1"]

- L 9950 mm [32.6 ft]
- **L1** 250 mm [9.8"]
- **L2** 390 mm [15.3"]
- **L3** 5060 mm [16.6 ft]
- **L4** 1842 mm [6.04 ft]
- **L5** 1118 mm [43.8"]
- **L6** 925 mm [36.4"]
- **L7** 900 mm [35.4"]

2.15.2 Assembly and dismantling



- 1 Tilting-back supports
- **2** Crossbar with coupling link
- 3 Polyamide supports LR1160

- W Detail W
- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1160, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 105, item 2).
- Tilting-back supports (Fig. 105, item 1).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

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Overview of steps

- Remove the crossbar and coupling links LR1200/LR1200SX.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1200/LR1200SX.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1160



The polyamide coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.

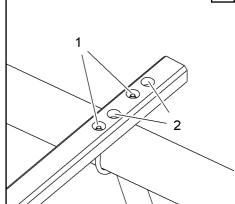
Length L (Fig. 106, item L) is from the bolting point on the main boom head to the start of the polyamide sup-

The supports are 2300 mm [90.5"] long

- 1 Upper polyamide support
- 2 Lower polyamide support
- 764 mm [2.5 ft]
- L1 972 mm [3.18 ft]

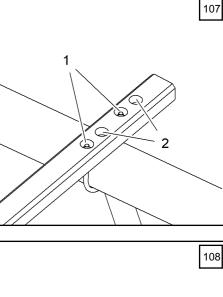
Polyamide supports

- Holes for the upper polyamide support.
- 2 Holes for the lower polyamide support.



Fastening

- Chord pipe
- Pipe clamp 2
- 3 Polyamide support



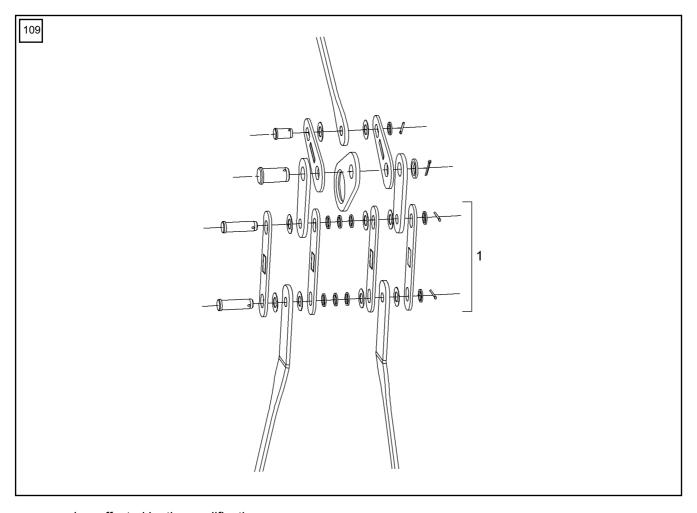


3

2

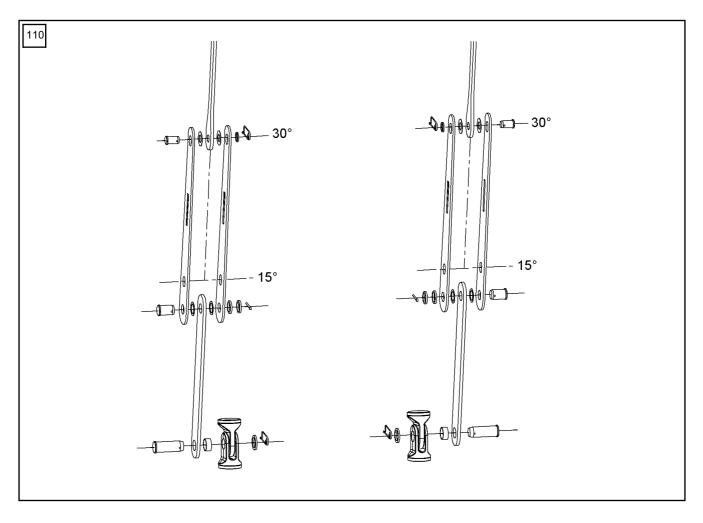
2. FIXED JIB 0806

Detail X LR1160



1 affected by the modification

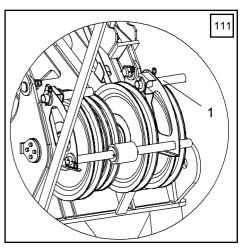
Detail Y LR1160



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1160

The upper rope guard tube on the main boom head (Fig. 111, item 1) must be removed.



2.16 Fixed jib 0806 from LR1200 to LR1280

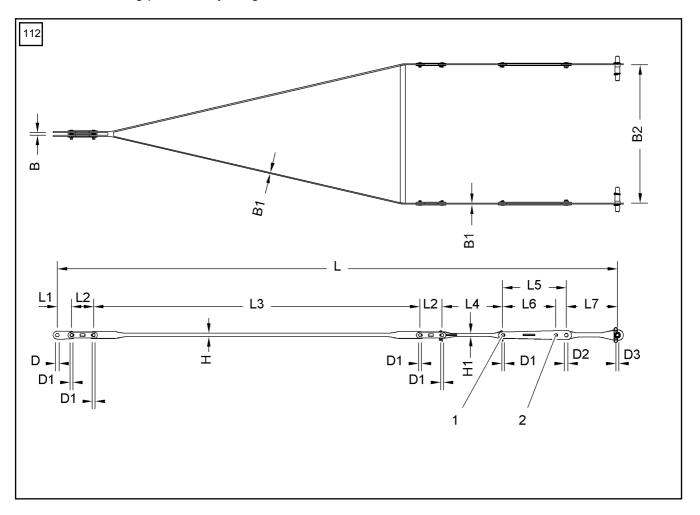
If fixed jib 0806, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1280, this modification kit must be used.

2.16.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting

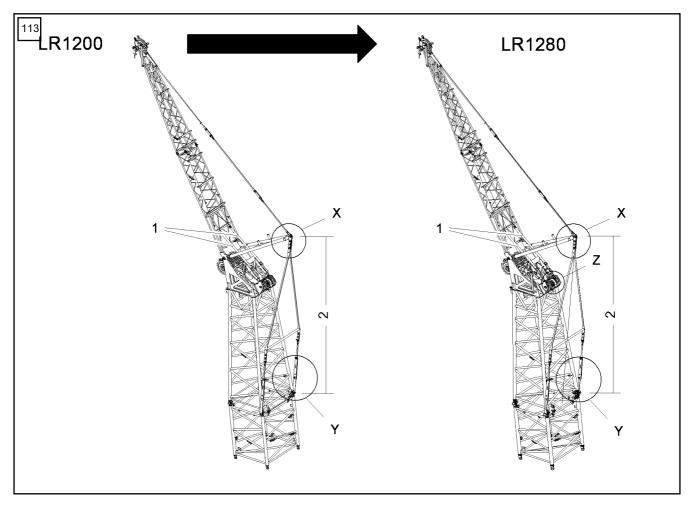
- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



- **B** 50 mm [1.96"]
- **B1** 18 mm [0.7"]
- **B2** 2450 mm [8.04 ft]
- **D** Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **D2** Ø 60 mm [2.3"]
- **D3** Ø 80 mm [3.14"]
- **H** 64 mm [2.5"]
- **H1** 54 mm [2.1"]

- L 9850 mm [32.3 ft]
- **L1** 250 mm [9.8"]
- **L2** 390 mm [15.3"]
- **L3** 3997 mm [13.11 ft]
- **L4** 2805 mm [9.2 ft]
- **L5** 1118 mm [43.8"]
- **L6** 925 mm [36.4"]
- **L7** 900 mm [35.4"]

2.16.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1280, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 113, item 2).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



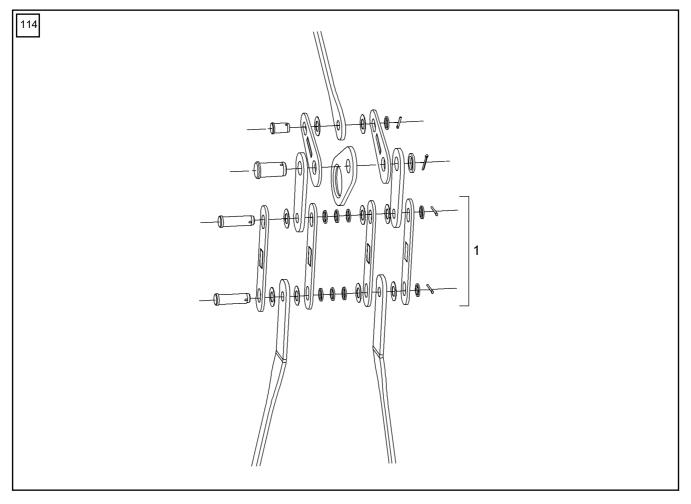
NOTE!

Cotter pins that have been used once must be replaced with new ones.

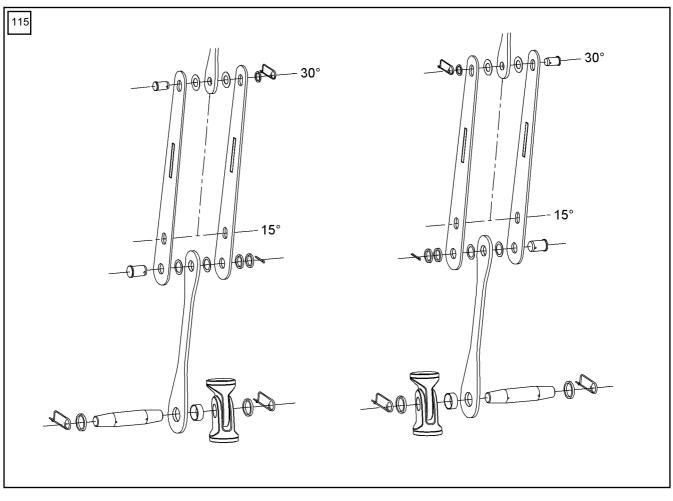
Overview of steps

- Remove the crossbar and coupling links LR1200/LR1200SX.
- Fit the crossbar and coupling links from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1280



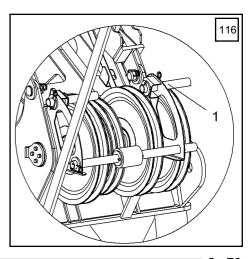
1 affected by the modification



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1280

The upper rope guard tube on the main boom head (Fig. 116, item 1) must be removed.



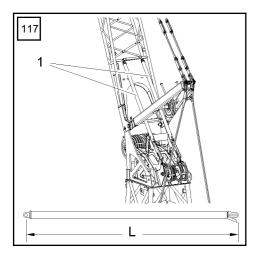
2.17 Fixed jib 0806 from LR1280 to LR1100

If fixed jib 0806, originally supplied with an LR1280, is to be fitted to an LR1100, this modification kit must be used.

2.17.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

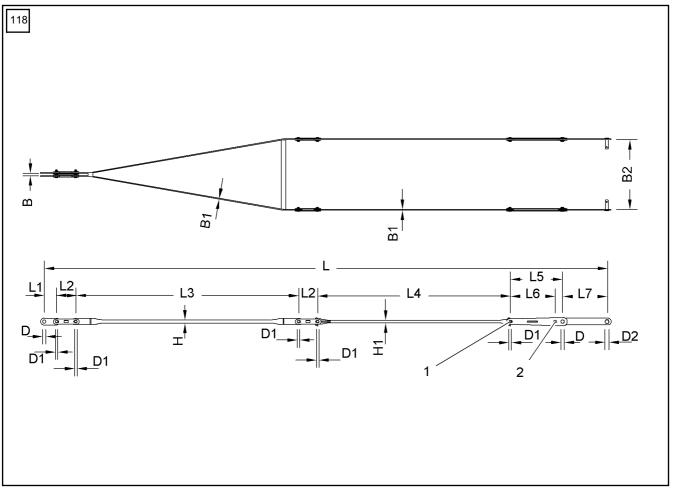


Tilting-back supports

- 1 Tilting-back supports
- **L** Total length = 2555 mm [100.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

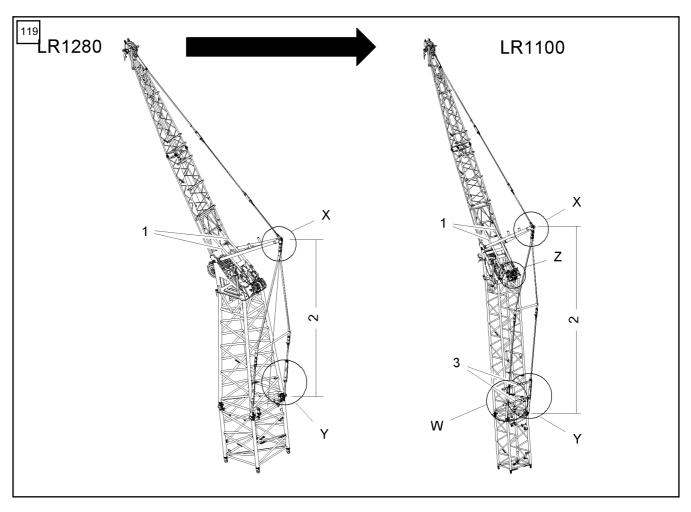
- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



- **B** 50 mm [1.96"]
- **B1** 18 mm [0.7"]
- **B2** 1415 mm [4.6 ft]
- **D** Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **D2** Ø 60 mm [2.3"]
- **H** 64 mm [2.5"]
- **H1** 54 mm [2.1"]

- L 11400 mm [37.4 ft]
- **L1** 250 mm [9.8"]
- **L2** 390 mm [15.3"]
- **L3** 4510 mm [14.8 ft]
- **L4** 3900 mm [12.8 ft]
- **L5** 1060 mm [3.4 ft]
- **L6** 900 mm [35.4"]
- **L7** 900 mm [35.4"]

2.17.2 Assembly and dismantling



- 1 Tilting-back supports
- **2** Crossbar with coupling link
- 3 Polyamide supports LR1100

- W Detail W
- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1280, is to be fitted to an LR1100, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 119, item 2).
- Tilting-back supports (Fig. 119, item 1).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

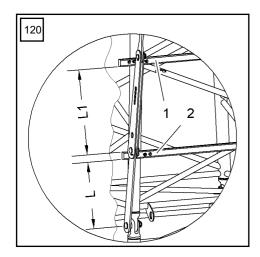
- Remove the crossbar and coupling links LR1200/LR1200SX.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1200/LR1200SX.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1100



IMPORTANT!

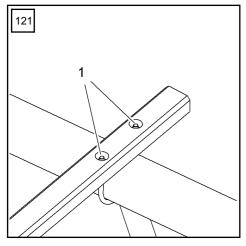
The polyamide coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.



Length L (Fig. 120, item L) is from the bolting point on the main boom head to the start of the polyamide sup-

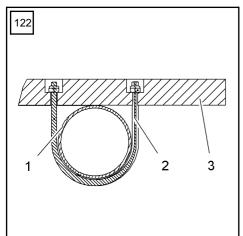
The supports are 1800 mm [70.8"] long

- 1 Upper polyamide support
- 2 Lower polyamide support
- L 785 mm [29.8"]
- L1 795 mm [31.2"]



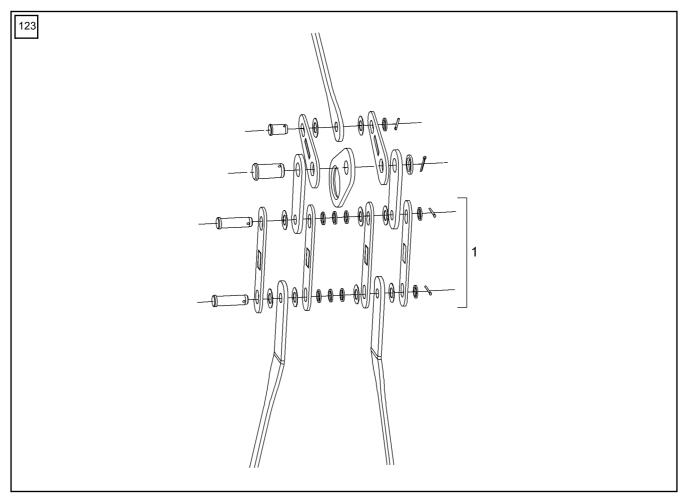
Polyamide supports

Holes for the two polyamide supports.



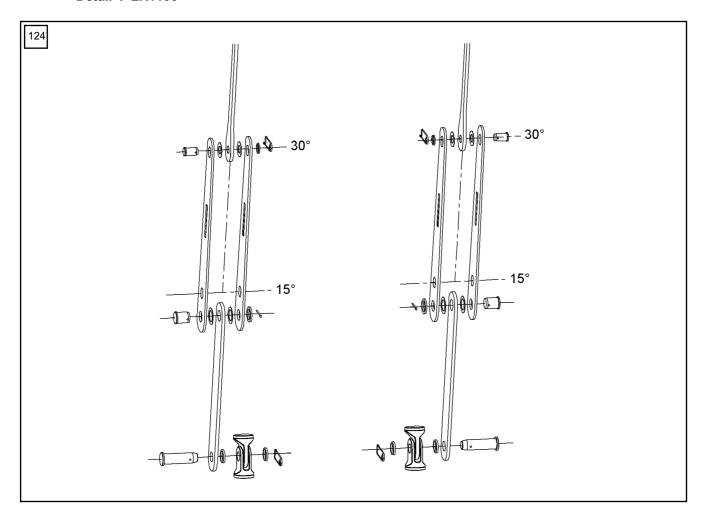
Fastening

- Chord pipe 1
- Pipe clamp 2
- Polyamide support



1 affected by the modification

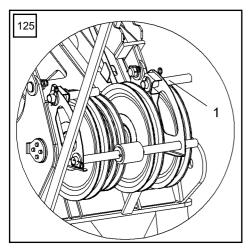
Detail Y LR1100



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1100

The upper rope guard tube on the main boom head (Fig. 125, item 1) must be removed.



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2.18 Fixed jib 0806 from LR1280 to LR1130

If fixed jib 0806, originally supplied with an LR1280, is to be fitted to an LR1130, this modification kit must be used.

2.18.1 Product description

The modification kit contains the following components:

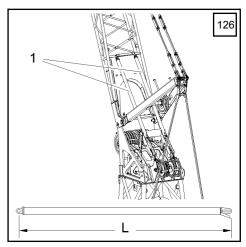
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

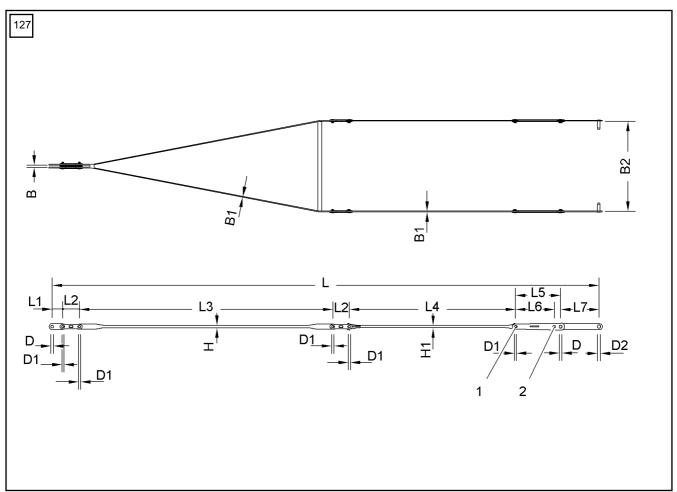
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 2555 mm [100.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°

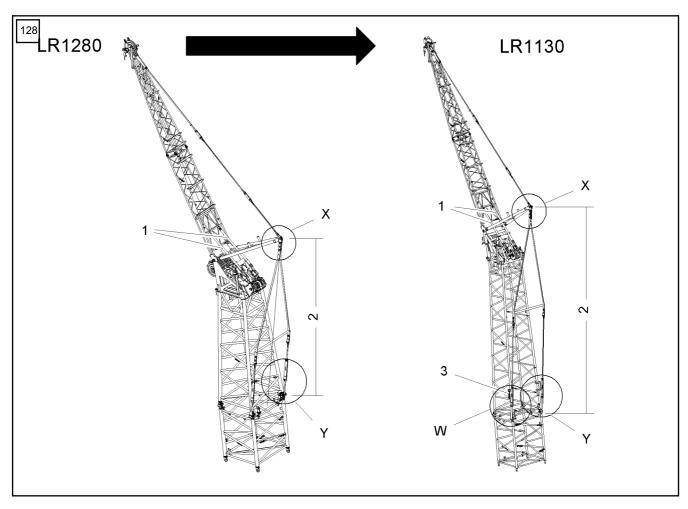




- **B** 50 mm [1.96"]
- **B1** 18 mm [0.7"]
- **B2** 2115 mm [6.9 ft]
- **D** Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **D2** Ø 60 mm [2.3"]
- **H** 64 mm [2.5"]
- **H1** 54 mm [2.1"]

- **L** 12840 mm [42.1 ft]
- **L1** 250 mm [9.8"]
- **L2** 390 mm [15.3"]
- **L3** 5950 mm [19.5 ft]
- **L4** 3900 mm [12.8 ft]
- **L5** 1060 mm [3.4 ft]
- **L6** 900 mm [35.4"]
- **L7** 900 mm [35.4"]

2.18.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link
- 3 Coupling link supports LR1130

- W Detail W
- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1280, is to be fitted to an LR1130, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 128, item 2).
- Tilting-back supports (Fig. 128, item 1).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

- Remove the crossbar and coupling links LR1280.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1280.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1130

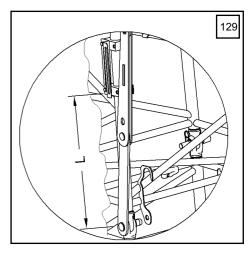


The coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.

1234 mm [48.58"]

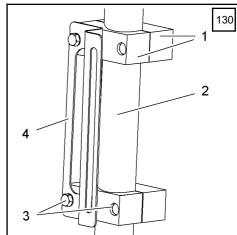
Length L (Fig. 129, item L) is from the centre of the bolting point on the main boom head to the start of the support.

The supports are 520 mm [20.4"] long



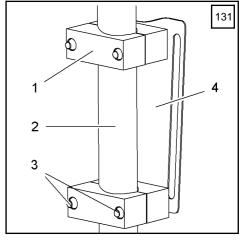
Exterior view

- Pipe clamp 1
- 2 Chord pipe
- 3 Fastening materials
- Support



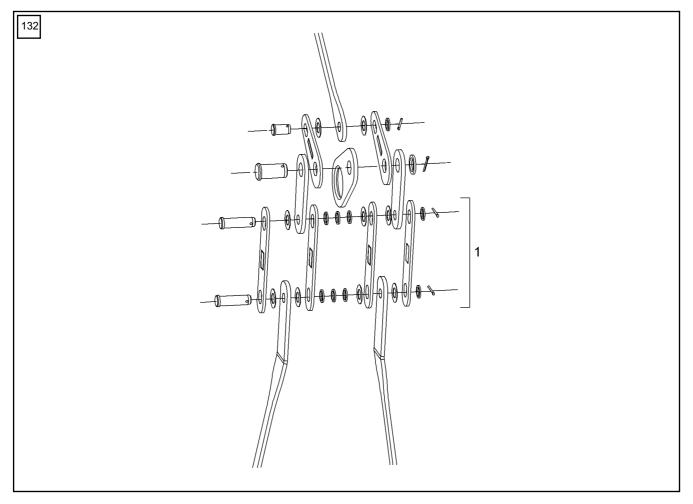
Interior view

- Pipe clamp
- Chord pipe 2
- 3 Fastening materials
- 4 Support



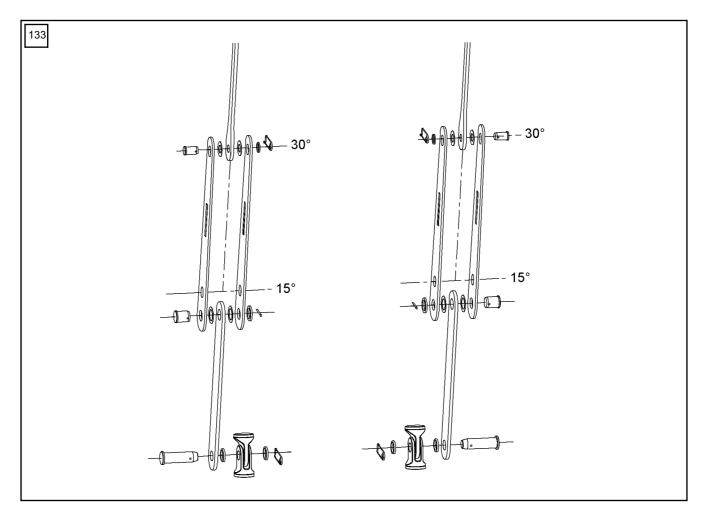
2. FIXED JIB 0806

Detail X LR1130



1 affected by the modification

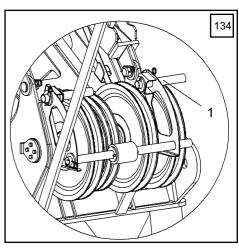
Detail Y LR1130



The bolting illustrated here shows the jib angle at 30° . The lower bolting point must be used for a jib angle of 15° .

Detail Z LR1130

The upper rope guard tube on the main boom head (Fig. 134, item 1) must be removed.



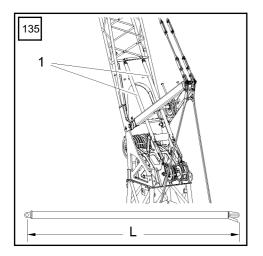
2.19 Fixed jib 0806 from LR1280 to LR1160

If fixed jib 0806, originally supplied with an LR1280, is to be fitted to an LR1160, this modification kit must be used.

2.19.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

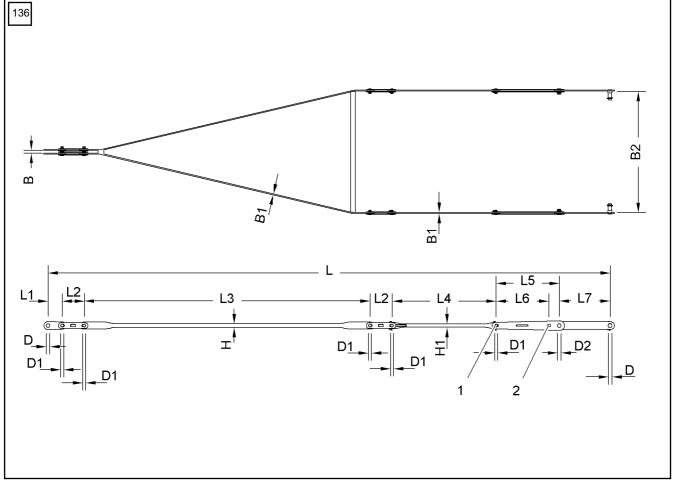


Tilting-back supports

- 1 Tilting-back supports
- L Total length = 2555 mm [100.5"]

Diameter of tilting-back supports = 88 mm [3.46"]

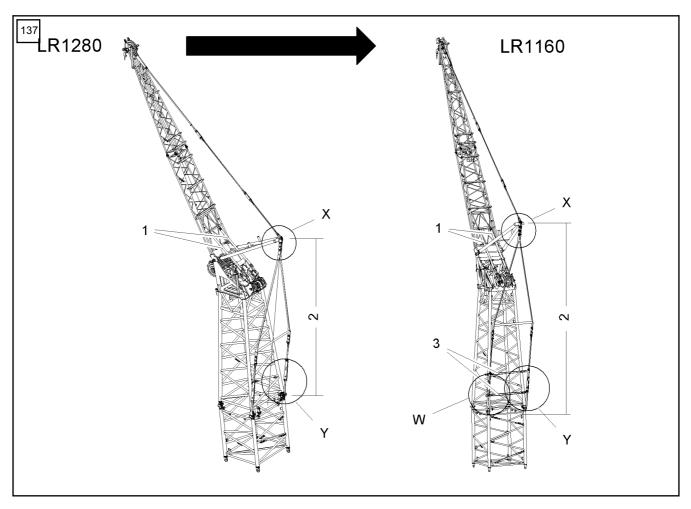
- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



- 50 mm [1.96"] В
- **B1** 18 mm [0.7"]
- **B2** 2148 mm [7.04 ft]
- Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **D2** Ø 60 mm [2.3"]
- 64 mm [2.5"] Н
- **H1** 54 mm [2.1"]

- 9950 mm [32.6 ft]
- **L1** 250 mm [9.8"]
- **L2** 390 mm [15.3"]
- **L3** 5060 mm [16.6 ft]
- **L4** 1842 mm [6.04 ft]
- **L5** 1118 mm [43.8"]
- **L6** 925 mm [36.4"]
- **L7** 900 mm [35.4"]

2.19.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link
- 3 Polyamide supports LR1160

- Detail W
- Detail X X
- Υ Detail Y
- Ζ Detail Z

If fixed jib 0806, originally supplied with an LR1280, is to be fitted to an LR1160, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 137, item 2).
- Tilting-back supports (Fig. 137, item 1).



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

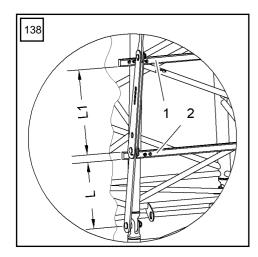
- Remove the crossbar and coupling links LR1280.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1280.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail W LR1160



IMPORTANT!

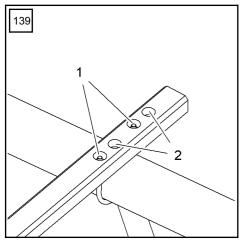
The polyamide coupling link supports supplied must be fitted first. If these are not available, wooden blocks of adequate length must be used.



Length L (Fig. 138, item L) is from the bolting point on the main boom head to the start of the polyamide sup-

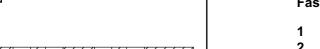
The supports are 2300 mm [90.5"] long

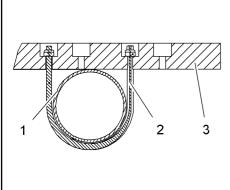
- 1 Upper polyamide support
- 2 Lower polyamide support
- L 764 mm [2.5 ft]
- L1 972 mm [3.18 ft]



Polyamide supports

- Holes for the upper polyamide support.
- 2 Holes for the lower polyamide support.

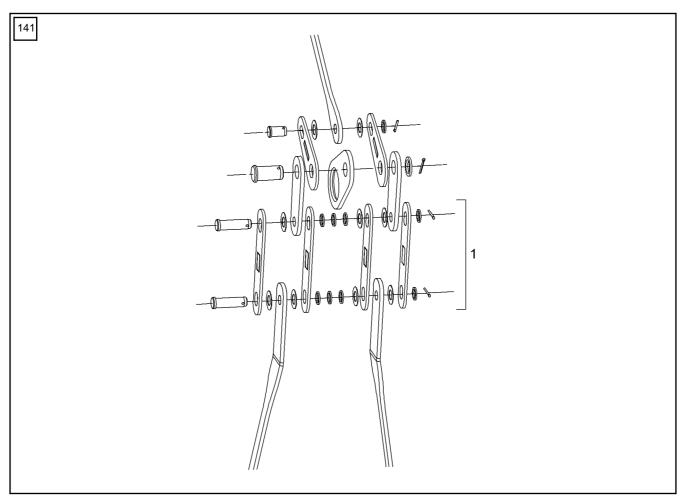




Fastening

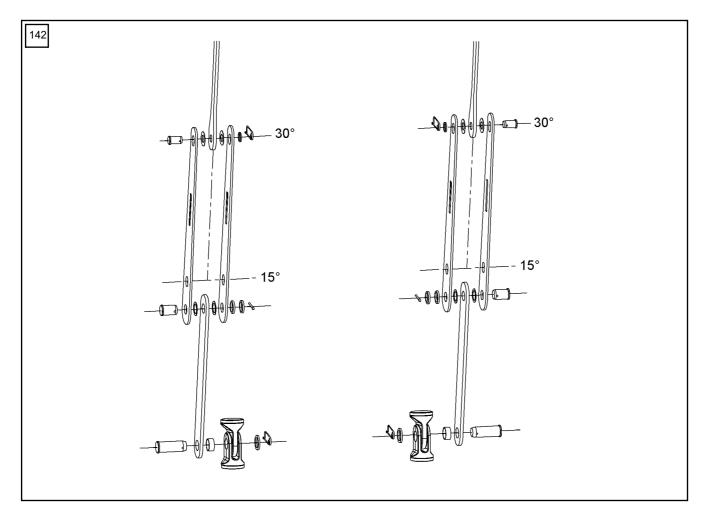
- Chord pipe
- Pipe clamp 2
- Polyamide support

140



1 affected by the modification

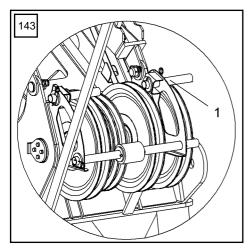
Detail Y LR1160



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1160

The upper rope guard tube on the main boom head (Fig. 143, item 1) must be removed.



2.20 Fixed jib 0806 from LR1280 to LR1200

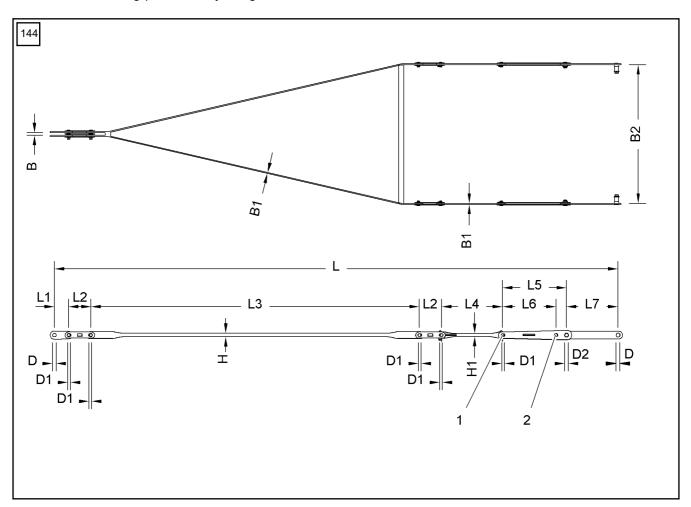
If fixed jib 0806, originally supplied with an LR1280, is to be fitted to an LR1200/LR1200SX, this modification kit must be used.

2.20.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



B 50 mm [1.96"]

B1 18 mm [0.7"]

B2 2450 mm [8.04 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 60 mm [2.3"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9850 mm [32.3 ft]

L1 250 mm [9.8"]

L2 390 mm [15.3"]

L3 3997 mm [13.11 ft]

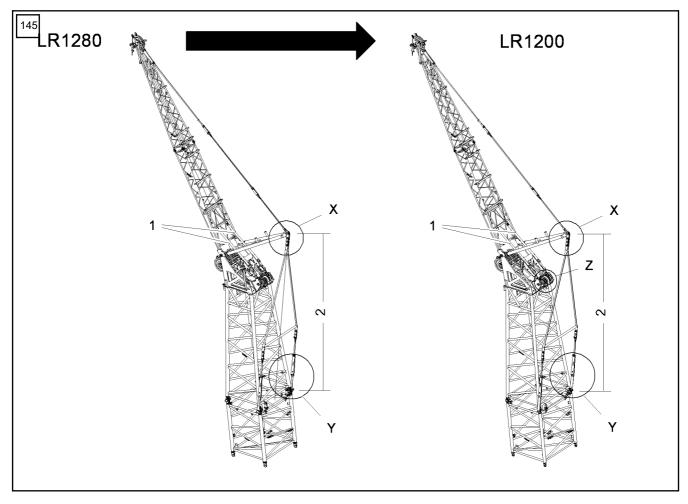
L4 2805 mm [9.2 ft]

L5 1118 mm [43.8"]

L6 925 mm [36.4"]

L7 900 mm [35.4"]

2.20.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 0806, originally supplied with an LR1280, is to be fitted to an LR1200/LR1200SX, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 145, item 2).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



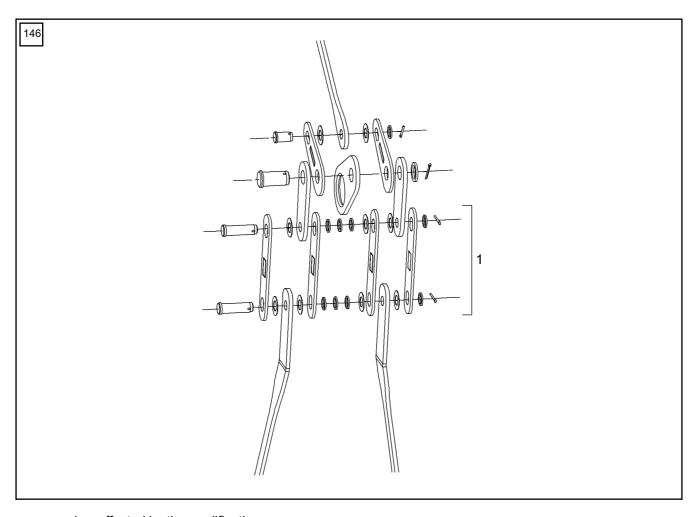
NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

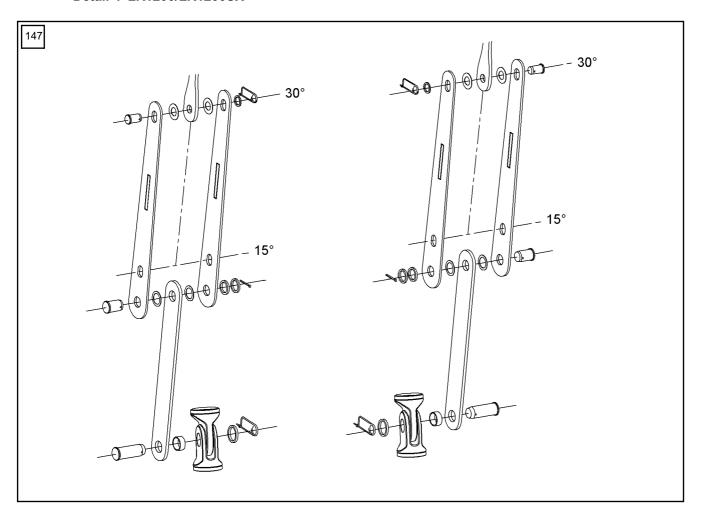
- Remove the crossbar and coupling links LR1280.
- Fit the crossbar and coupling links from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1200/LR1200SX



1 affected by the modification

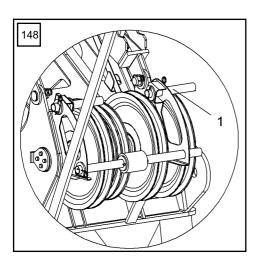
Detail Y LR1200/LR1200SX



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1200/LR1200SX

The upper rope guard tube on the main boom head (Fig. 148, item 1) must be removed.



J.

FIXED JIB 0906

3.1 Fixed jib 0906 from LR1280W to LR1300

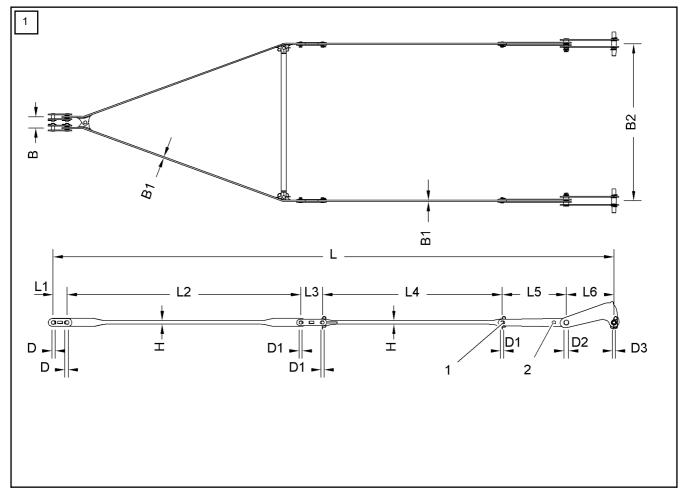
If fixed jib 0906, originally supplied with an LR1280W, is to be fitted to an LR1300, this modification kit must be used.

3.1.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting

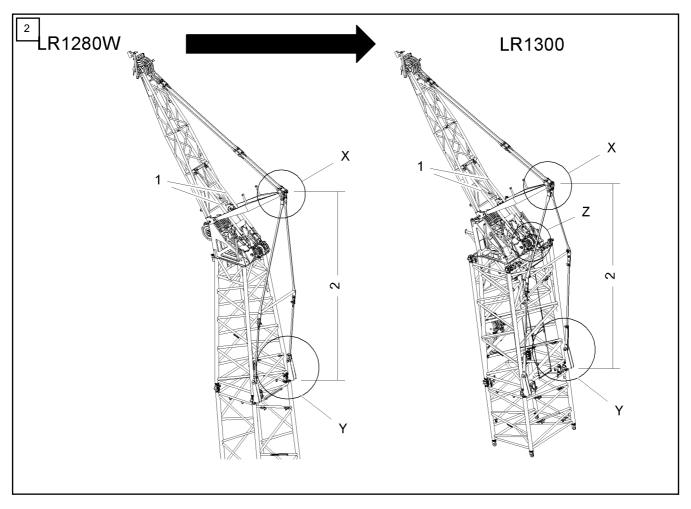
- 1 Bolting position for jib angle 30°
- **2** Bolting position for jib angle 15° (Do not use!)



- **B** 200 mm [7.87"]
- **B1** 22 mm [0.78"]
- **B2** 2800 mm [9.18 ft]
- **D** Ø 60 mm [2.3"]
- **D1** Ø 50 mm [1.96"]
- **D2** Ø 70 mm [2.75"]
- **D3** Ø 80 mm [3.14"]
- **H** 62 mm [2.44"]

- **L** 10000 mm [32.8 ft]
- **L1** 200 mm [7.87"]
- **L2** 4165 mm [13.66 ft]
- **L3** 390 mm [15.3"]
- **L4** 3202 mm [10.5 ft]
- **L5** 1143 mm [3.74 ft]
- **L6** 850 mm [33.46"]

Assembly and dismantling



- Tilting-back supports
- 2 Crossbar with coupling link

- Detail X
- Detail Y
- Detail Z

If fixed jib 0906, originally supplied with an LR1280W, is to be fitted to an LR1300, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 2, item 2).



IMPORTANT!

In this configuration fixed jib 0906 may only be tensioned at 30°.



IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



NOTE!

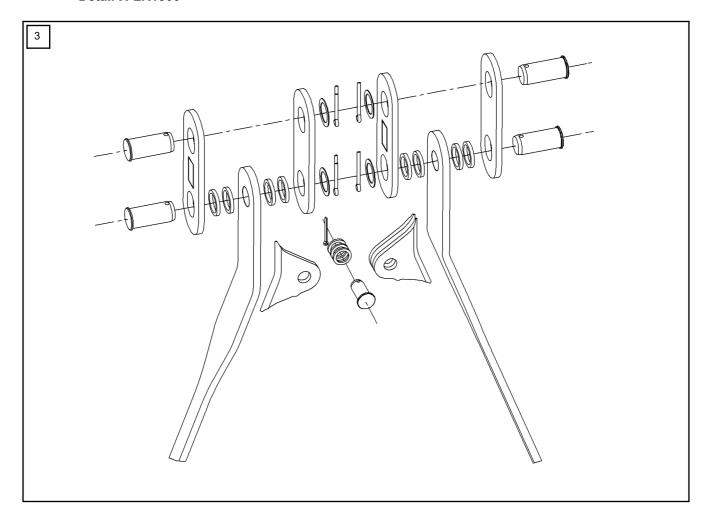
Cotter pins that have been used once must be replaced with new ones.

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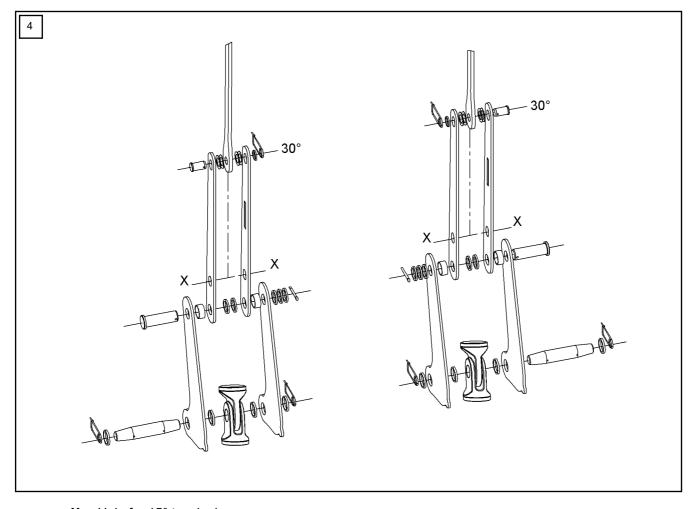
Overview of steps

- Remove the crossbar and coupling links LR1280W.
- Fit the crossbar and coupling links from the modification kit.Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1300



Detail Y LR1300



X Hole for 15° tensioning

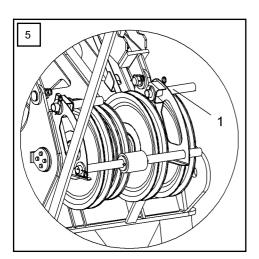


Only 30° tensioning is permitted.

The hole for 15° tensioning must **not** be used.

Detail Z LR1300

The upper rope guard tube on the main boom head (Fig. 5, item 1) must be removed.



LR_UBS_V003 (gl) LWN - TD7/5/2010

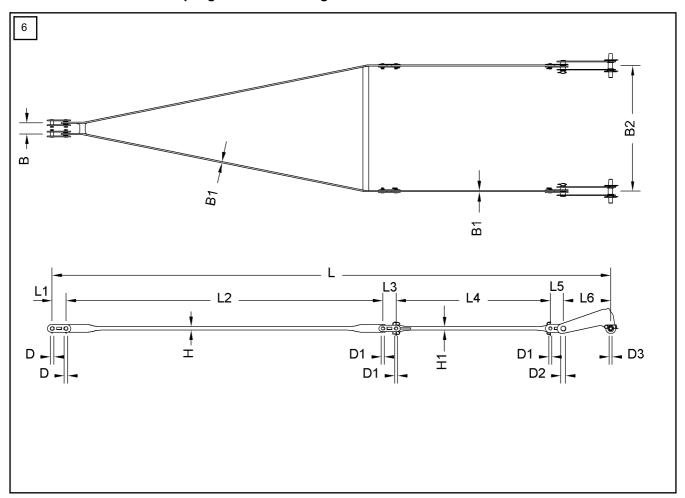
3.2 Fixed jib 0906 from LR1300 to LR1280W

If fixed jib 0906, originally supplied with an LR1300, is to be fitted to an LR1280W, this modification kit must be used.

3.2.1 Product description

The modification kit contains the following components:

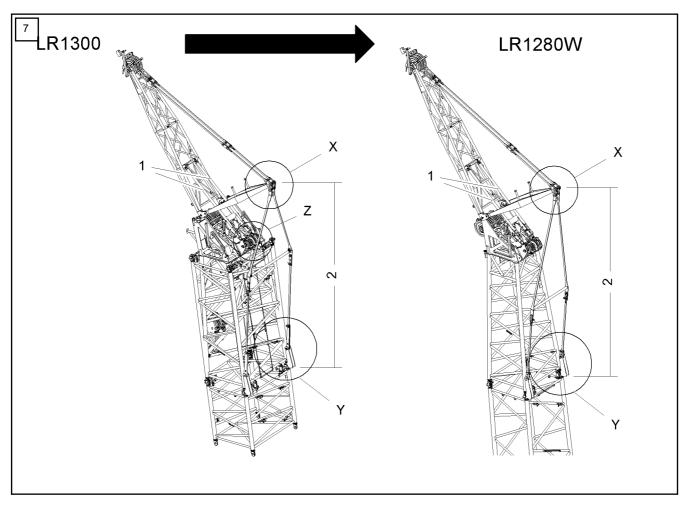
- 1x crossbar with coupling links and bolting



- **B** 200 mm [7.87"]
- **B1** 22 mm [0.78"]
- **B2** 2250 mm [7.38 ft]
- **D** Ø 60 mm [2.3"]
- **D1** Ø 50 mm [1.96"]
- **D2** Ø 70 mm [2.75"]
- **D2** Ø 80 mm [3.14"]
- **H** 65 mm [2.55"]
- **H1** 62 mm [2.44"]

- L 10000 mm [32.8 ft]
- **L1** 250 mm [9.8"]
- **L2** 5670 mm [18.6 ft]
- **L3** 240 mm [9.4"]
- **L4** 2760 mm [9.05 ft]
- **L5** 230 mm [9.05"]
- **L6** 850 mm [33.46"]

Assembly and dismantling



- Tilting-back supports
- 2 Crossbar with coupling link

- Detail X
- Detail Y
- Detail Z

If fixed jib 0906, originally supplied with an LR1300, is to be fitted to an LR1280W, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 7, item 2).



IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



NOTE!

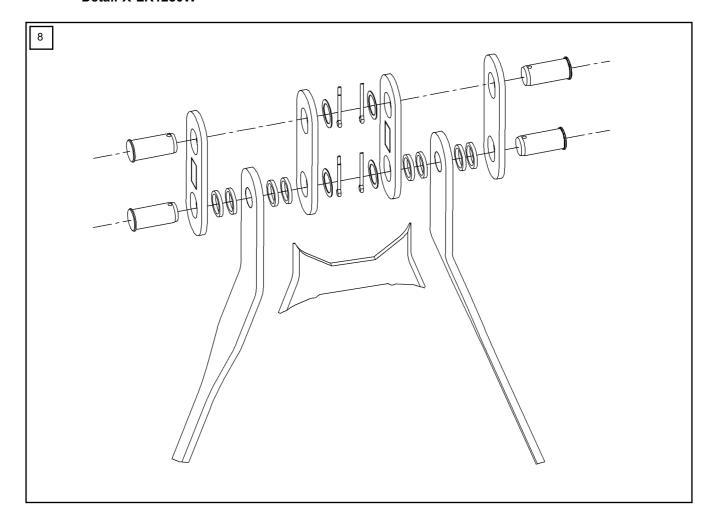
Cotter pins that have been used once must be replaced with new ones.

LR_UBS_V003 (gl) LWN - TD7/5/2010

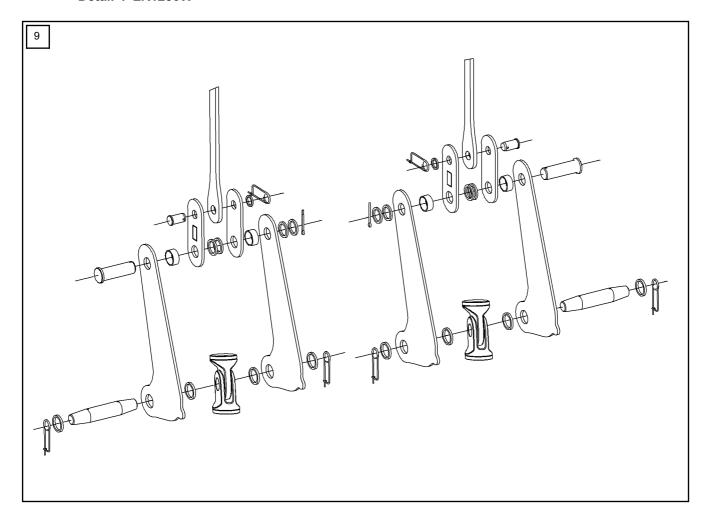
Overview of steps

- Remove the crossbar and coupling links LR1300.
- Fit the crossbar and coupling links from the modification kit.Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1280W

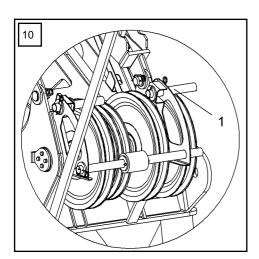


Detail Y LR1280W



Detail Z LR1280W

The upper rope guard tube on the main boom head (Fig. 10, item 1) must be removed.



LR UBS V003 (al) LWN - TD7/5/20

4. FIXED JIB 1008

4.1 Fixed jib 1008 from LR1160 to LR1200

If fixed jib 1008, originally supplied with an LR1160, is to be fitted to an LR1200/LR1200SX, this modification kit must be used.

4.1.1 Product description

The modification kit contains the following components:

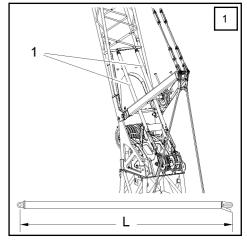
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

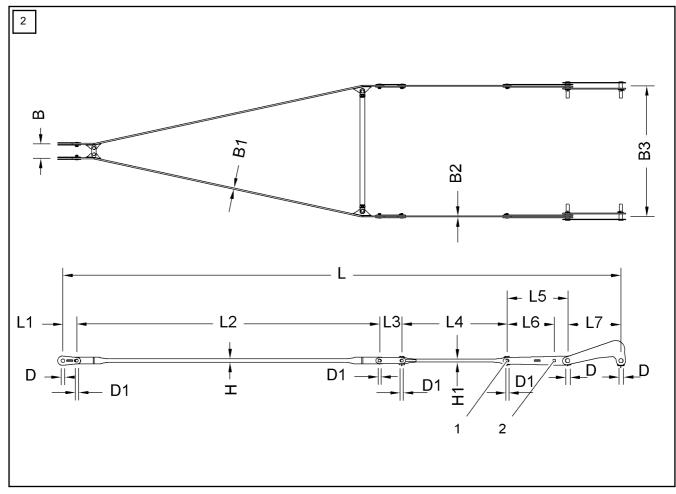
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 3160 mm [124"]

Diameter of tilting-back supports = 101 mm [3.98"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 250 mm [9.8"]

B1 20 mm [0.78"]

B2 18 mm [0.7"]

B3 2290 mm [7.5 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9767 mm [32.04 ft]

L1 243 mm [9.5"]

L2 5300 mm [17.38 ft]

L3 390 mm [15.3"]

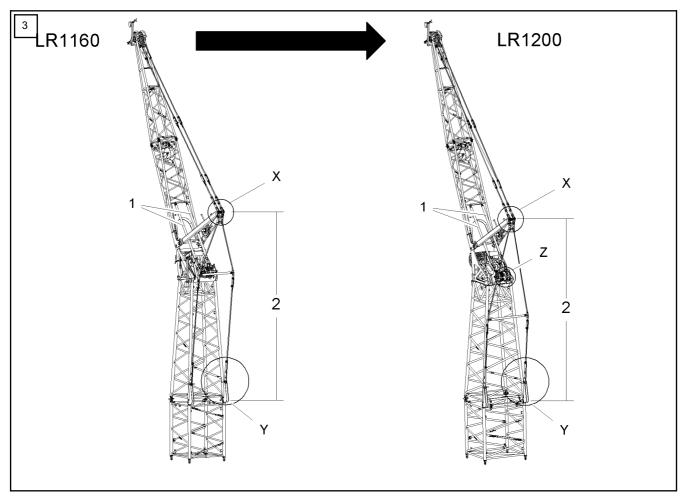
L4 1842 mm [6.04 ft]

L5 1060 mm [3.4 ft]

L6 817 mm [32.1"]

L7 932 mm [36.7"]

4.1.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 1008, originally supplied with an LR1160, is to be fitted to an LR1200/LR1200SX, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 3, item 2).
- Tilting-back supports (Fig. 3, item 1).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



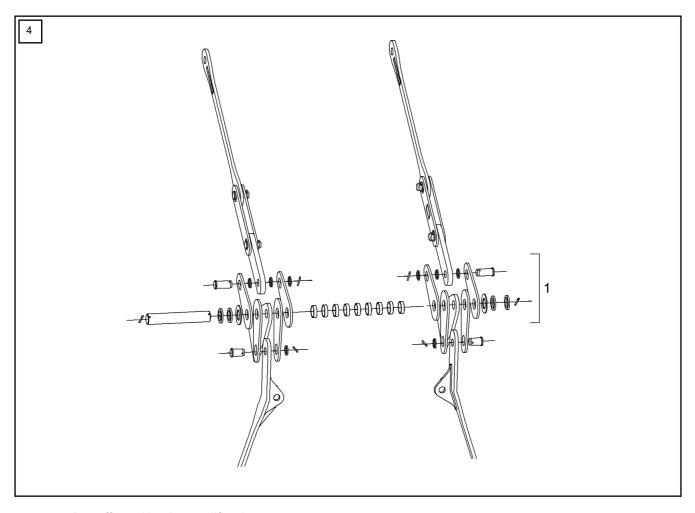
NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

- Remove the crossbar and coupling links LR1160.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1160.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

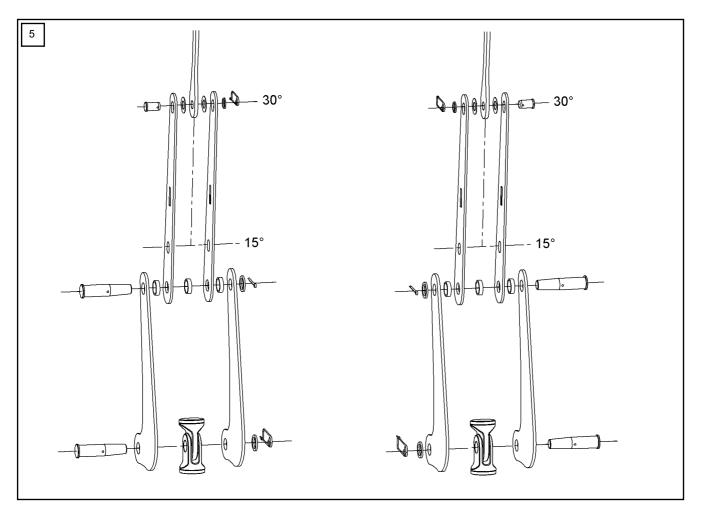
Detail X LR1200/LR1200SX



1 affected by the modification

4. FIXED JIB 1008

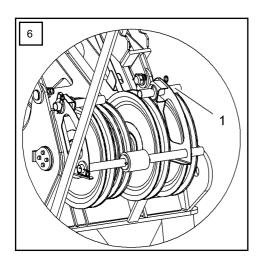
Detail Y LR1200/LR1200SX



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1200/LR1200SX

The upper rope guard tube on the main boom head (Fig. 6, item 1) must be removed.



R UBS V003 (a)) LWN - TD7/5/201

4.2 Fixed jib 1008 from LR1160 to LR1280

If fixed jib 1008, originally supplied with an LR1160, is to be fitted to an LR1280, this modification kit must be used.

4.2.1 Product description

The modification kit contains the following components:

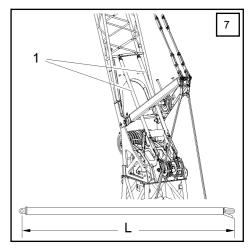
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

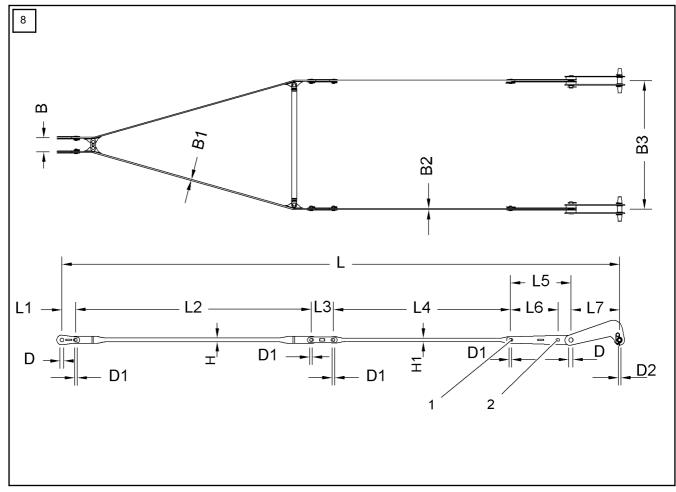
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 3160 mm [124"]

Diameter of tilting-back supports = 101 mm [3.98"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 250 mm [9.8"]

B1 20 mm [0.78"]

B2 18 mm [0.7"]

B3 2250 mm [7.38 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

D2 Ø 80 mm [3.14"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9767 mm [32.04 ft]

L1 243 mm [9.5"]

L2 4122 mm [13.5 ft]

L3 390 mm [15.3"]

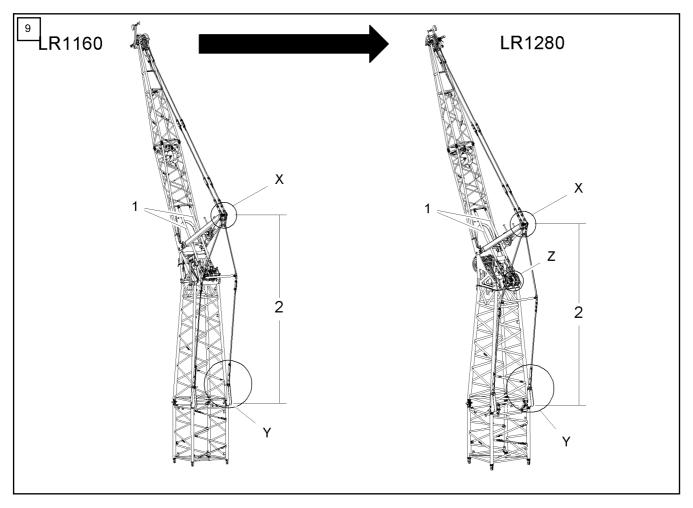
L4 2285 mm [7.49 ft]

L5 1060 mm [3.4 ft]

L6 817 mm [32.1"]

L7 850 mm [33.46"]

4.2.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 1008, originally supplied with an LR1160, is to be fitted to an LR1280, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 9, item 2).
- Tilting-back supports (Fig. 9, item 1).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



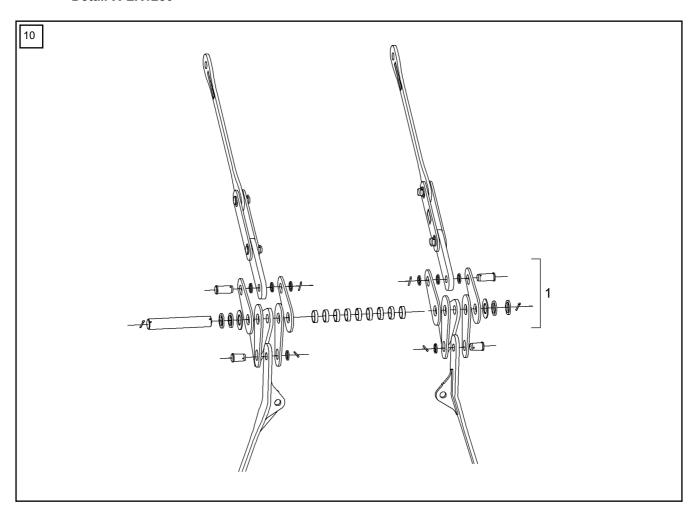
NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

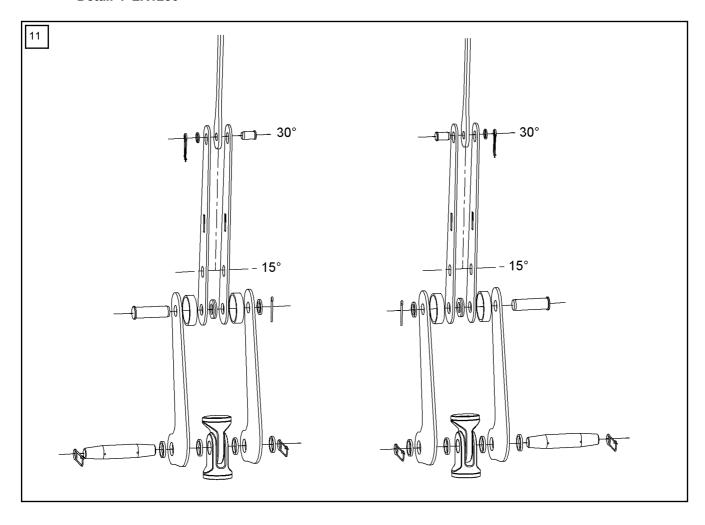
- Remove the crossbar and coupling links LR1160.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1160.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1280



1 affected by the modification

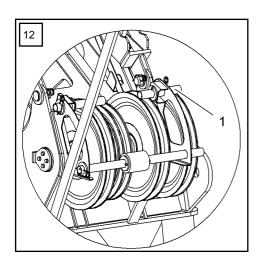
Detail Y LR1280



The bolting illustrated here shows the jib angle at 30° . The lower bolting point must be used for a jib angle of 15° .

Detail Z LR1280

The upper rope guard tube on the main boom head (Fig. 12, item 1) must be removed.



R UBS V003 (gl) LWN - TD7/5/20

4.3 Fixed jib 1008 from LR1160 to LR1300

If fixed jib 1008, originally supplied with an LR1160, is to be fitted to an LR1300, this modification kit must be used.

4.3.1 Product description

The modification kit contains the following components:

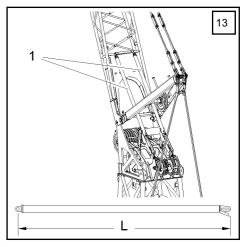
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

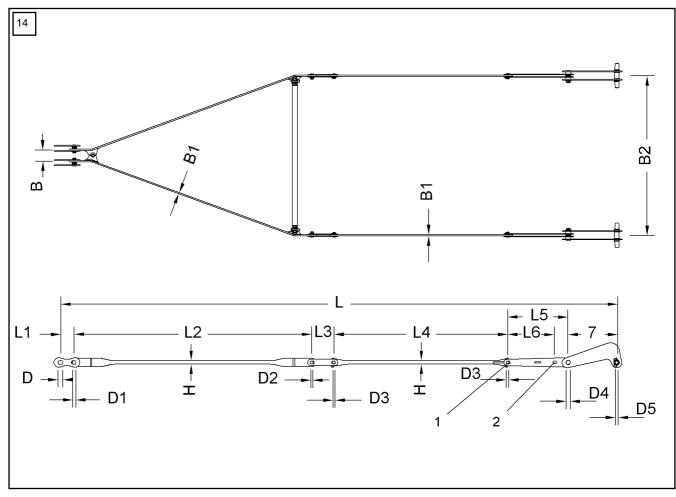
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 3160 mm [124"]

Diameter of tilting-back supports = 101 mm [3.98"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 200 mm [7.87"]

B1 22 mm [0.78"]

B2 2800 mm [9.18 ft]

D Ø 65 mm [2.55"]

D1 Ø 60 mm [2.3"]

D2 Ø 50 mm [1.96"]

D3 Ø 45 mm [1.77"]

D4 Ø 65 mm [2.55"]

D5 Ø 80 mm [3.14"]

L 9760 mm [32.02 ft]

L1 250 mm [9.8"]

L2 4165 mm [13.66 ft]

L3 390 mm [15.3"]

L4 3045 mm [9.99 ft]

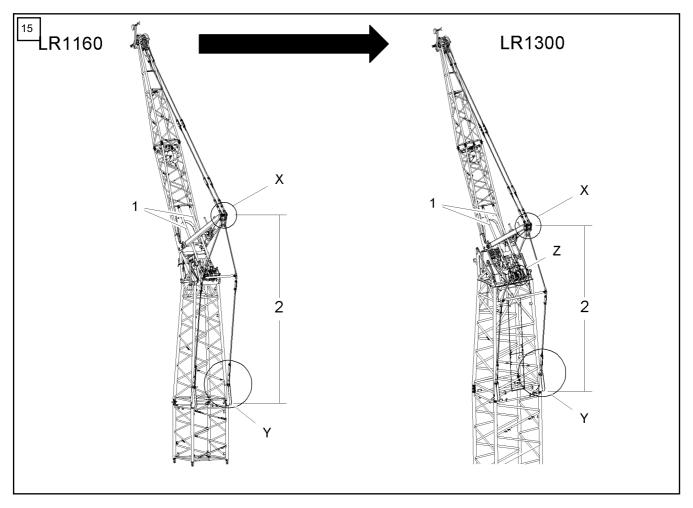
L5 1060 mm [3.4 ft]

L6 817 mm [32.1"]

L7 850 mm [33.46"]

H 62 mm [2.44"]

4.3.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 1008, originally supplied with an LR1160, is to be fitted to an LR1300, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 15, item 2).
- Tilting-back supports (Fig. 15, item 1).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.



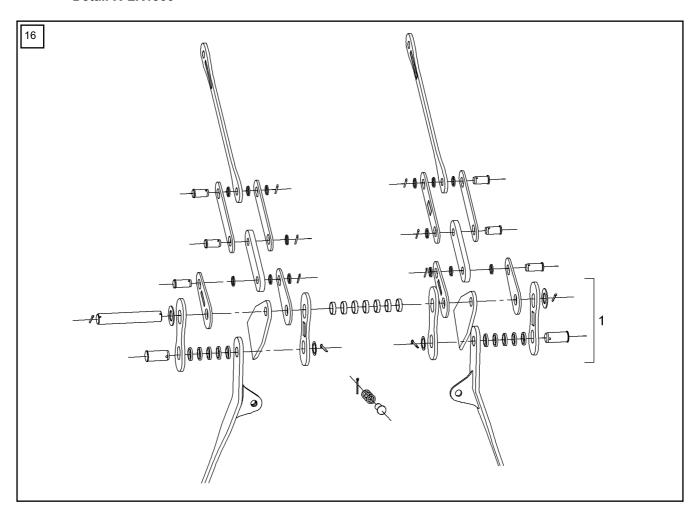
NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

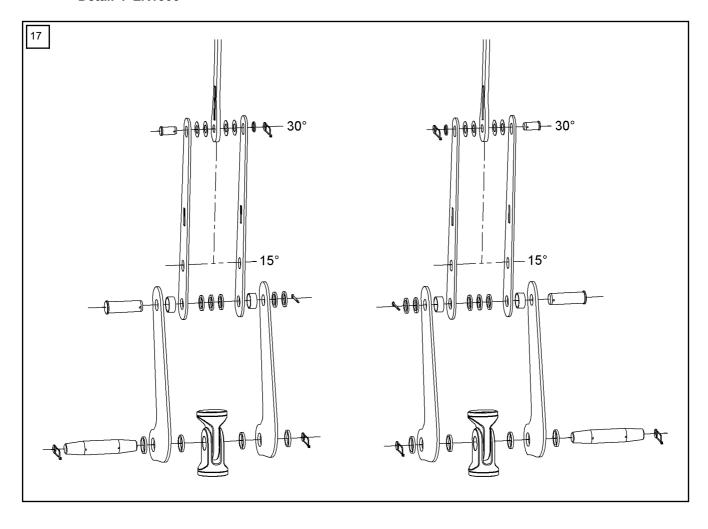
- Remove the crossbar and coupling links LR1160.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1160.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1300



1 affected by the modification

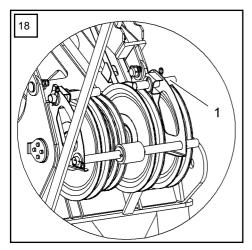
Detail Y LR1300



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1300

The upper rope guard tube on the main boom head (Fig. 18, item 1) must be removed.



R UBS V003 (al) LWN - TD7/5/20

4.4 Fixed jib 1008 from LR1200 to LR1160

If fixed jib 1008, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1160, this modification kit must be used.

4.4.1 Product description

The modification kit contains the following components:

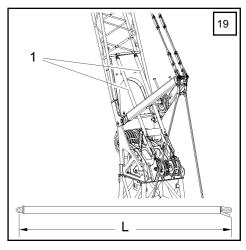
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

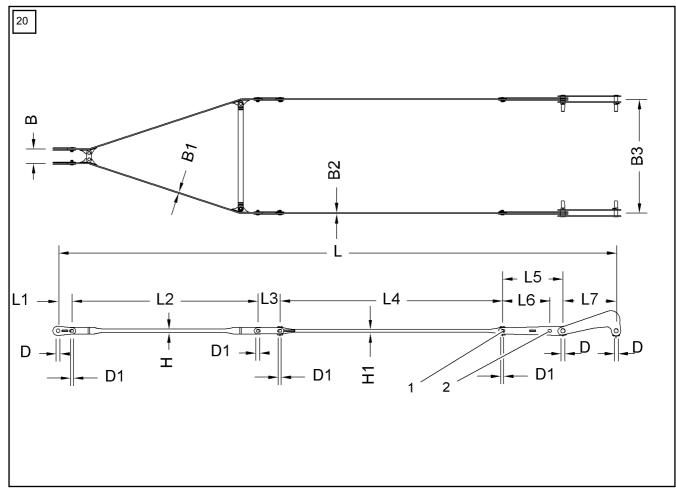
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 3388 mm [133"]

Diameter of tilting-back supports = 101 mm [3.98"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 250 mm [9.8"]

B1 20 mm [0.78"]

B2 18 mm [0.7"]

B3 2000 mm [6.56 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9785 mm [32.1 ft]

L1 243 mm [9.5"]

L2 3260 mm [10.7 ft]

L3 390 mm [15.3"]

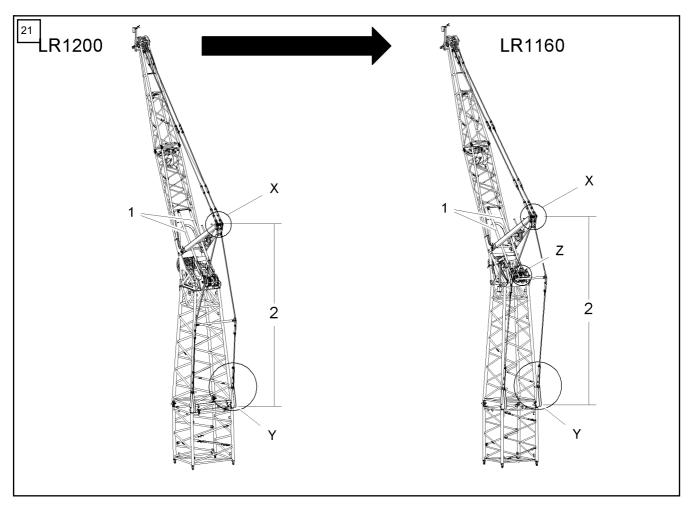
L4 3900 mm [12.8 ft]

L5 1060 mm [3.4 ft]

L6 817 mm [32.1"]

L7 932 mm [36.7"]

4.4.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link

- X Detail X
- Y Detail Y
- Z Detail Z

If fixed jib 1008, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1160, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 21, item 2).
- Tilting-back supports (Fig. 21, item 1).

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links on the main boom head.

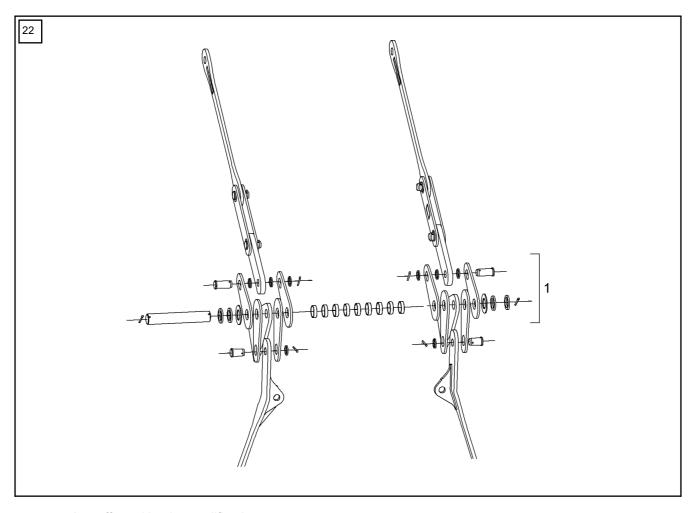


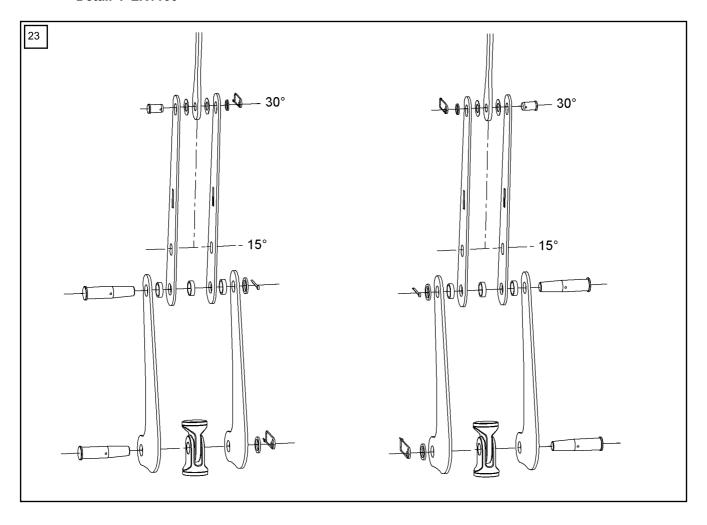
Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

- Remove the crossbar and coupling links LR1200/LR1200SX.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1200/LR1200SX.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z)
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1160

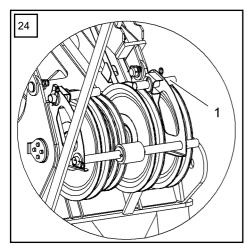




The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1160

The upper rope guard tube on the main boom head (Fig. 24, item 1) must be removed.



4.5 Fixed jib 1008 from LR1200 to LR1280

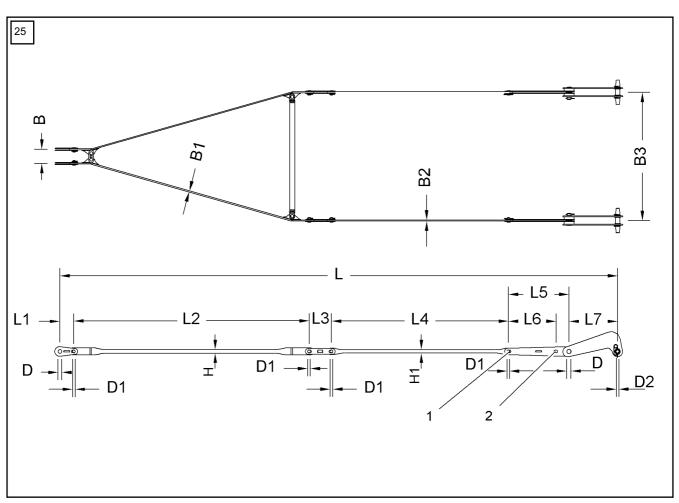
If fixed jib 1008, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1280, this modification kit must be used.

4.5.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting

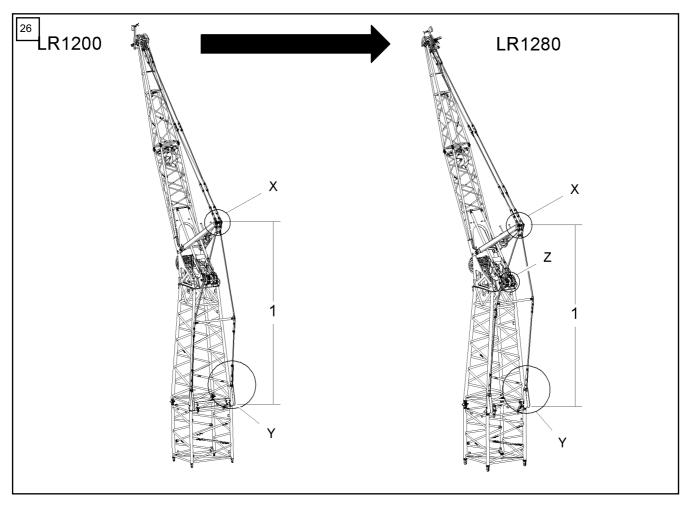
- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



- **B** 250 mm [9.8"]
- **B1** 20 mm [0.78"]
- **B2** 18 mm [0.7"]
- **B3** 2250 mm [7.38 ft]
- **D** Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **D2** Ø 80 mm [3.14"]
- **H** 64 mm [2.5"]
- **H1** 54 mm [2.1"]

- **L** 9767 mm [32.04 ft]
- **L1** 243 mm [9.5"]
- **L2** 4122 mm [13.5 ft]
- **L3** 390 mm [15.3"]
- **L4** 2285 mm [7.49 ft]
- **L5** 1060 mm [3.4 ft]
- **L6** 817 mm [32.1"]
- **L7** 850 mm [33.46"]

4.5.2 Assembly and dismantling



1 Crossbar with coupling link

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 1008, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1280, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 26, item 1).

IMPORTANT!

For assembly and dismantling:

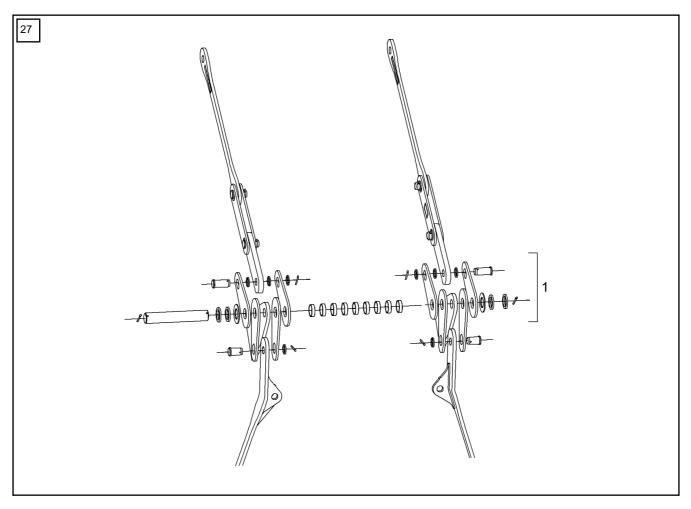


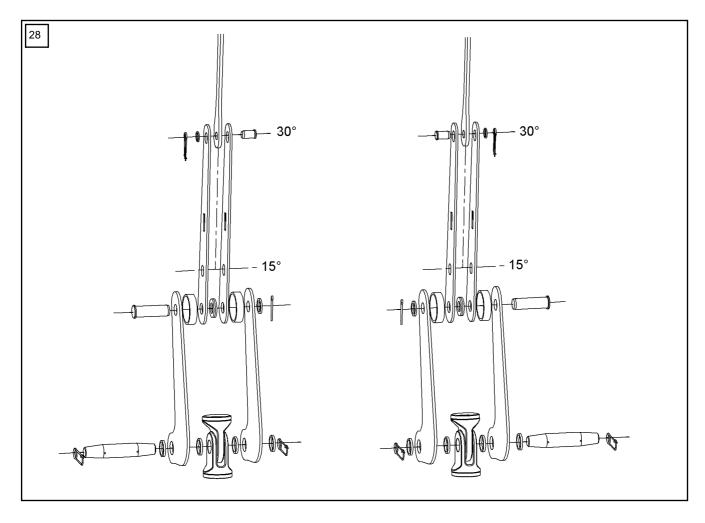
Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

- Remove the crossbar and coupling links LR1200/LR1200SX.
- Fit the crossbar and coupling links from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1280

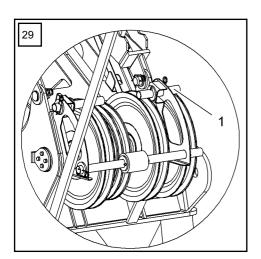




The bolting illustrated here shows the jib angle at 30° . The lower bolting point must be used for a jib angle of 15° .

Detail Z LR1280

The upper rope guard tube on the main boom head (Fig. 29, item 1) must be removed.



4.6 Fixed jib 1008 from LR1200 to LR1300

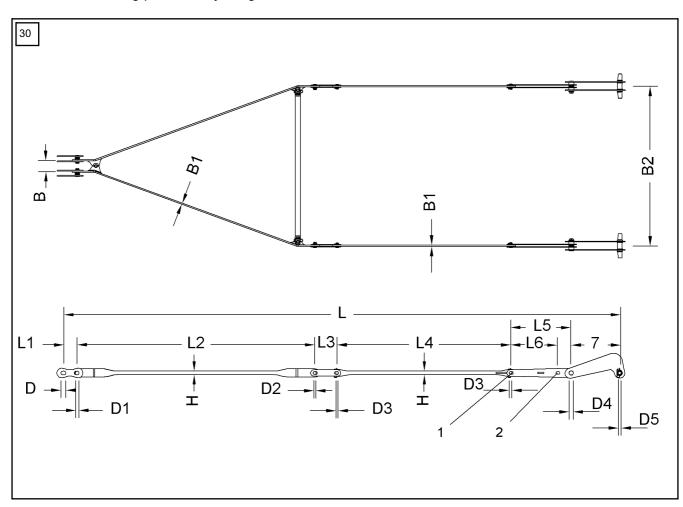
If fixed jib 1008, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1300, this modification kit must be used.

4.6.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



B 200 mm [7.87"]

B1 22 mm [0.78"]

B2 2800 mm [9.18 ft]

D Ø 65 mm [2.55"]

D1 Ø 60 mm [2.3"]

D2 Ø 50 mm [1.96"]

D3 Ø 45 mm [1.77"]

D4 Ø 65 mm [2.55"]

D5 Ø 80 mm [3.14"]

L 9760 mm [32.02 ft]

L1 250 mm [9.8"]

L2 4165 mm [13.66 ft]

L3 390 mm [15.3"]

L4 3045 mm [9.99 ft]

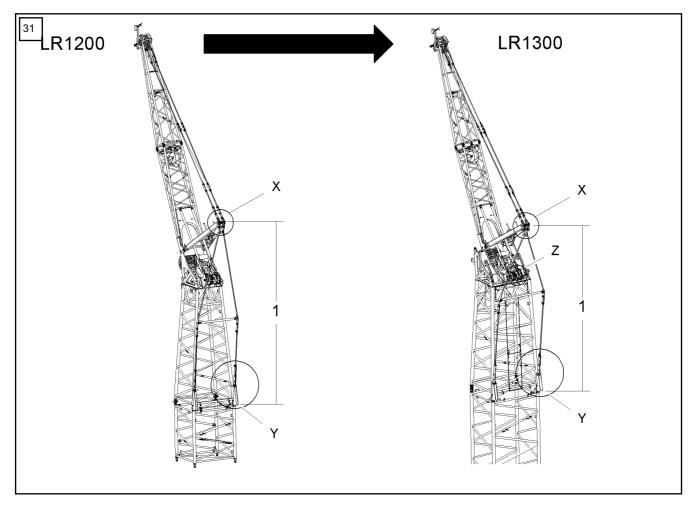
L5 1060 mm [3.4 ft]

L6 817 mm [32.1"]

L7 850 mm [33.46"]

H 62 mm [2.44"]

4.6.2 Assembly and dismantling



1 Crossbar with coupling link

X Detail X

Y Detail Y

Z Detail Z

If fixed jib 1008, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1300, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 31, item 1).

IMPORTANT!

For assembly and dismantling:

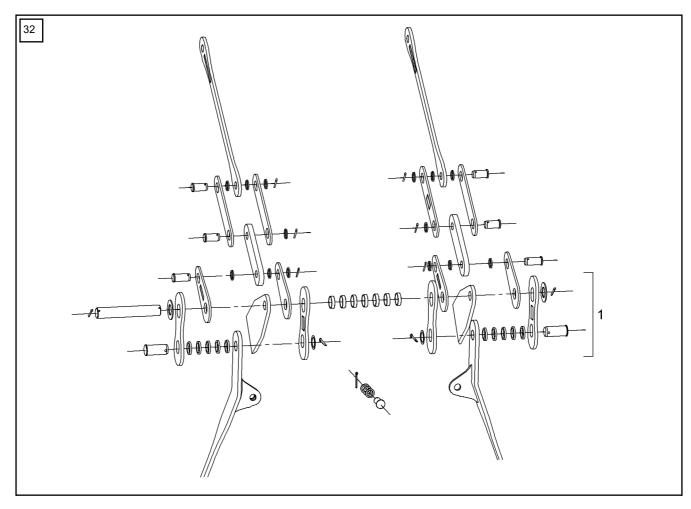


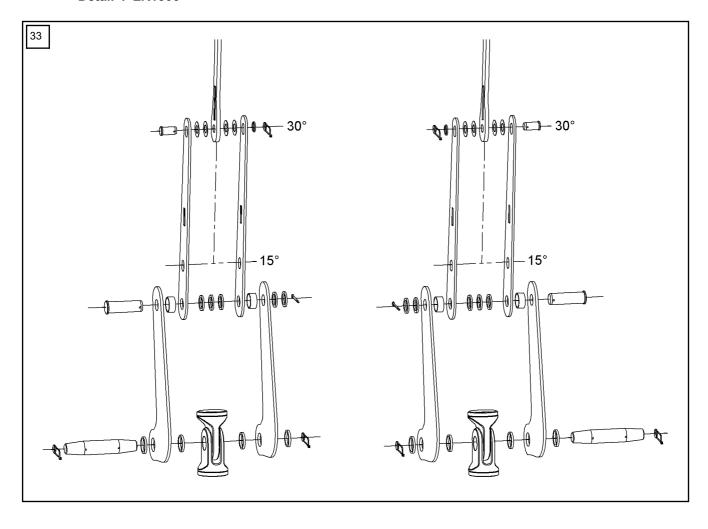
Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

- Remove the crossbar and coupling links LR1200/LR1200SX.
- Fit the crossbar and coupling links from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1300

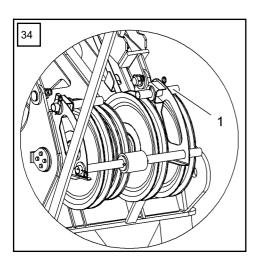




The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1300

The upper rope guard tube on the main boom head (Fig. 34, item 1) must be removed.



LR UBS V003 (gl) LWN - TD7/5/20

4.7 Fixed jib 1008 from LR1280 to LR1160

If fixed jib 1008, originally supplied with an LR1280, is to be fitted to an LR1160, this modification kit must be used.

4.7.1 Product description

The modification kit contains the following components:

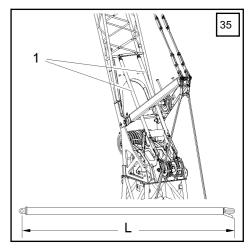
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

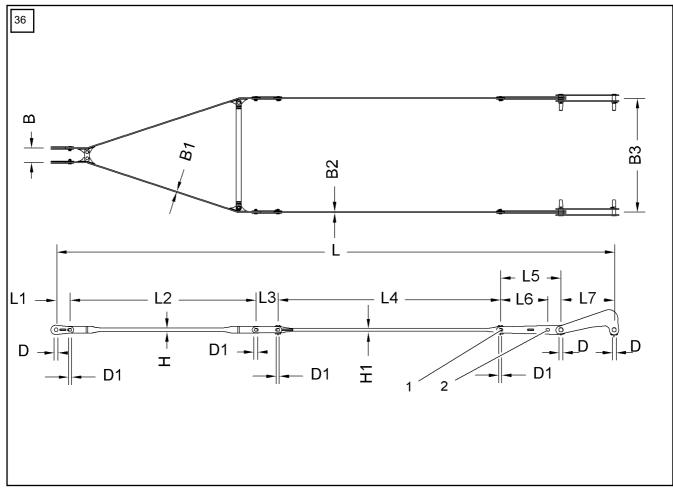
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 3388 mm [133"]

Diameter of tilting-back supports = 101 mm [3.98"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 250 mm [9.8"]

B1 20 mm [0.78"]

B2 18 mm [0.7"]

B3 2000 mm [6.56 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9785 mm [32.1 ft]

L1 243 mm [9.5"]

L2 3260 mm [10.7 ft]

L3 390 mm [15.3"]

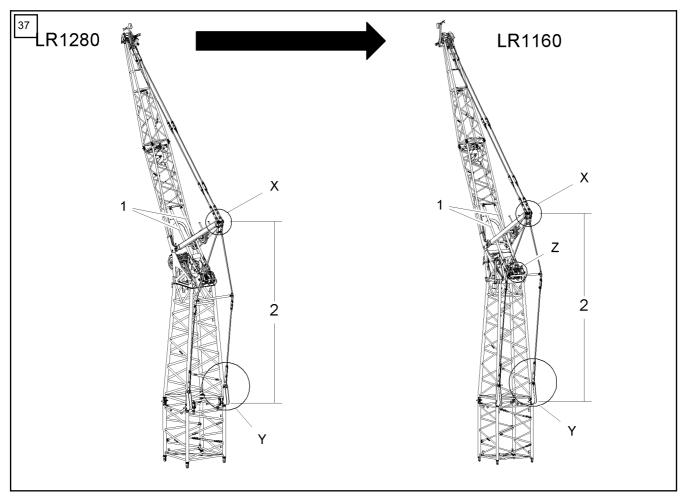
L4 3900 mm [12.8 ft]

L5 1060 mm [3.4 ft]

L6 817 mm [32.1"]

L7 932 mm [36.7"]

4.7.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 1008, originally supplied with an LR1280, is to be fitted to an LR1160, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 37, item 2).
- Tilting-back supports (Fig. 37, item 1).

IMPORTANT!

For assembly and dismantling:

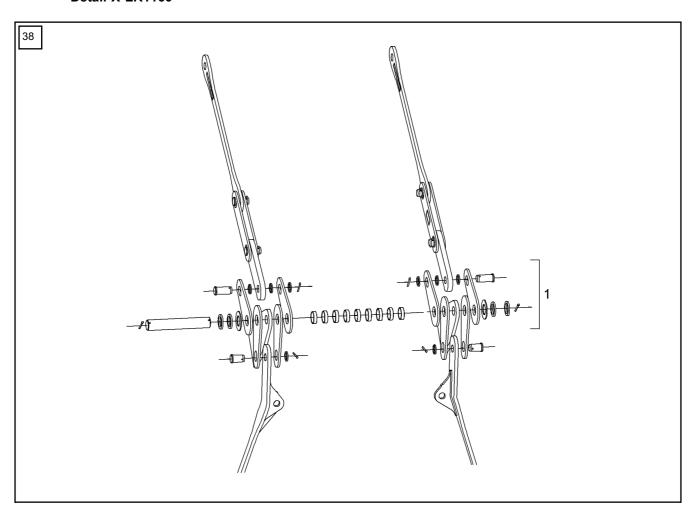


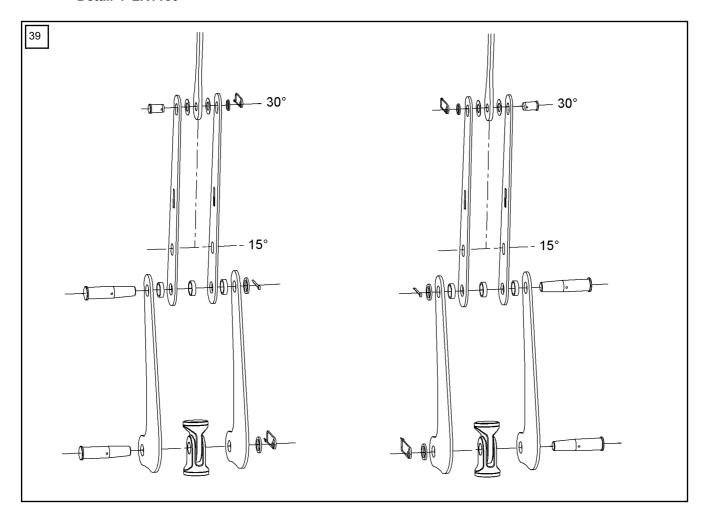
Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

- Remove the crossbar and coupling links LR1280.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1280.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1160

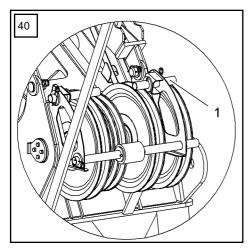




The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1160

The upper rope guard tube on the main boom head (Fig. 40, item 1) must be removed.



4.8 Fixed jib 1008 from LR1280 to LR1200

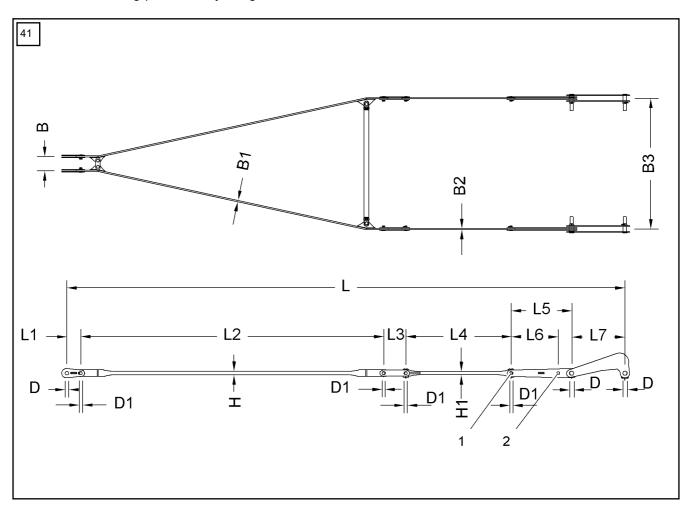
If fixed jib 1008, originally supplied with an LR1280, is to be fitted to an LR1200/LR1200SX, this modification kit must be used.

4.8.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting

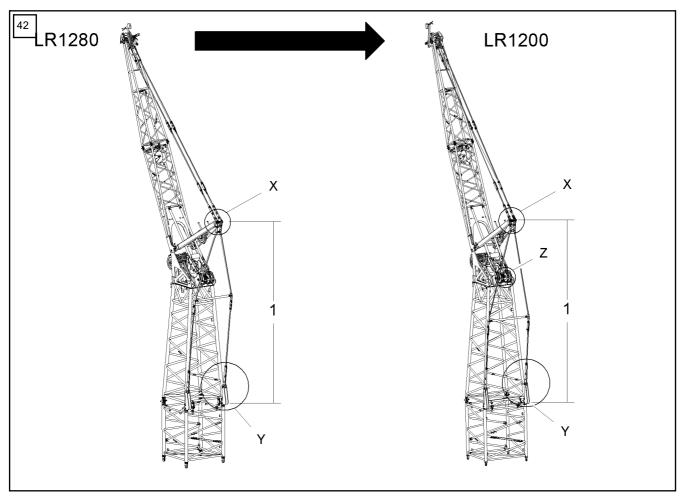
- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



- **B** 250 mm [9.8"]
- **B1** 20 mm [0.78"]
- **B2** 18 mm [0.7"]
- **B3** 2290 mm [7.5 ft]
- **D** Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **H** 64 mm [2.5"]
- **H1** 54 mm [2.1"]

- L 9767 mm [32.04 ft]
- **L1** 243 mm [9.5"]
- **L2** 5300 mm [17.38 ft]
- **L3** 390 mm [15.3"]
- **L4** 1842 mm [6.04 ft]
- **L5** 1060 mm [3.4 ft]
- **L6** 817 mm [32.1"]
- **L7** 932 mm [36.7"]

4.8.2 Assembly and dismantling



1 Crossbar with coupling link

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 1008, originally supplied with an LR1280, is to be fitted to an LR1200/LR1200SX, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 42, item 1).

IMPORTANT!

For assembly and dismantling:

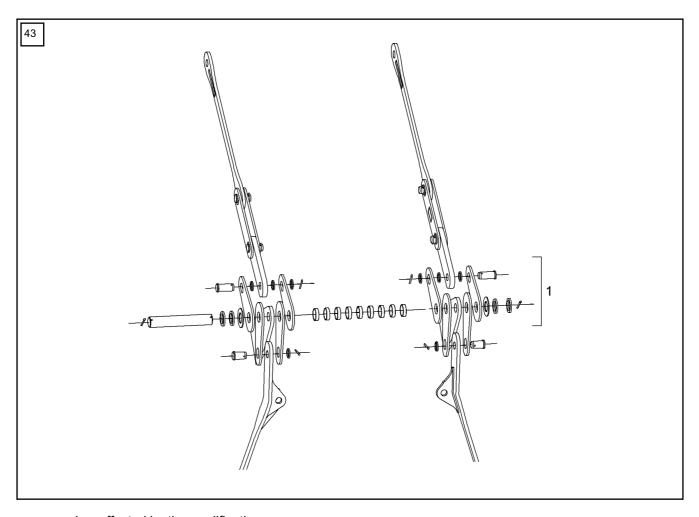


Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

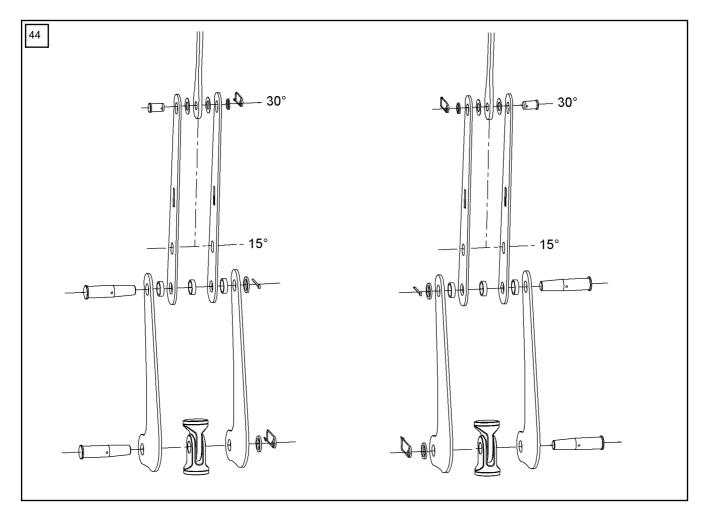
- Remove the crossbar and coupling links LR1280.
- Fit the crossbar and coupling links from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1200/LR1200SX



4. FIXED JIB 1008

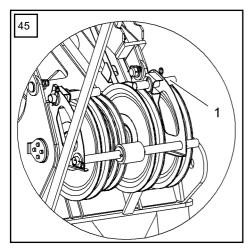
Detail Y LR1200/LR1200SX



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1200/LR1200SX

The upper rope guard tube on the main boom head (Fig. 45, item 1) must be removed.



4.9 Fixed jib 1008 from LR1280 to LR1300

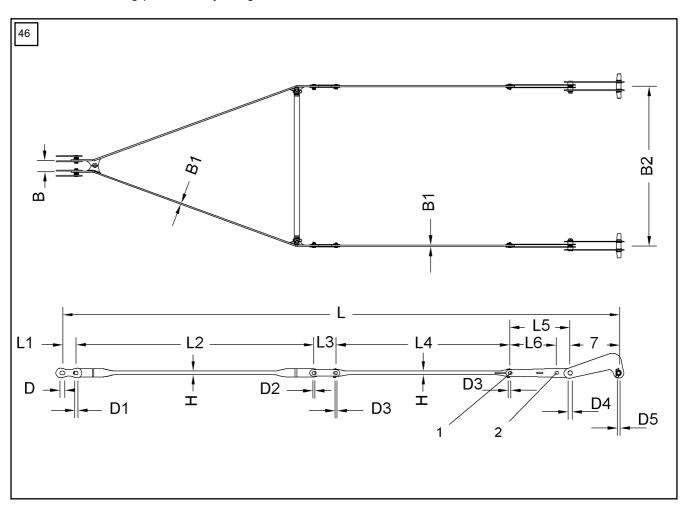
If fixed jib 1008, originally supplied with an LR1280, is to be fitted to an LR1300, this modification kit must be used.

4.9.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



B 200 mm [7.87"]

B1 22 mm [0.78"]

B2 2800 mm [9.18 ft]

D Ø 65 mm [2.55"]

D1 Ø 60 mm [2.3"]

D2 Ø 50 mm [1.96"]

D3 Ø 45 mm [1.77"]

D4 Ø 65 mm [2.55"]

D5 Ø 80 mm [3.14"]

L 9760 mm [32.02 ft]

L1 250 mm [9.8"]

L2 4165 mm [13.66 ft]

L3 390 mm [15.3"]

L4 3045 mm [9.99 ft]

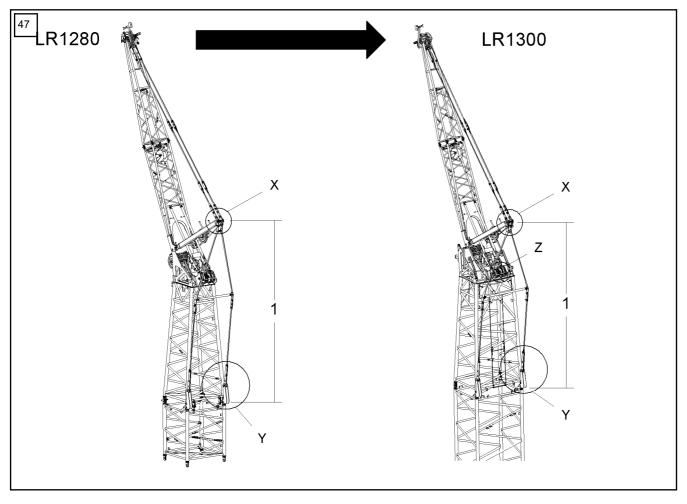
L5 1060 mm [3.4 ft]

L6 817 mm [32.1"]

L7 850 mm [33.46"]

H 62 mm [2.44"]

4.9.2 Assembly and dismantling



1 Crossbar with coupling link

X Detail X

Y Detail Y

Z Detail Z

If fixed jib 1008, originally supplied with an LR1280, is to be fitted to an LR1300, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 47, item 1).

IMPORTANT!

For assembly and dismantling:

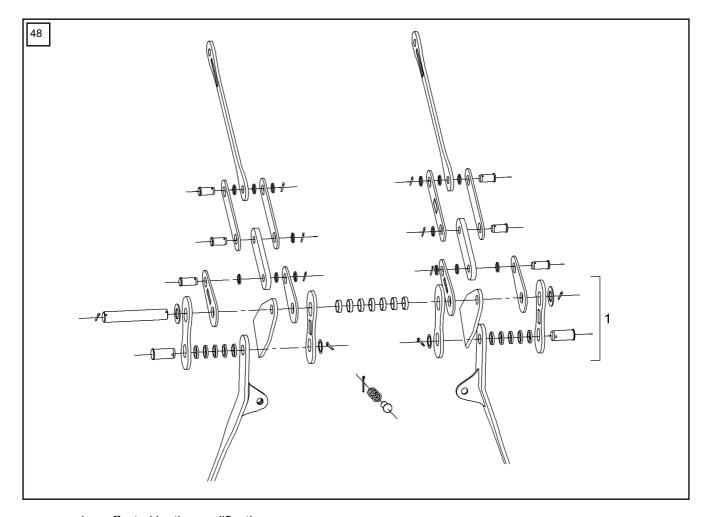


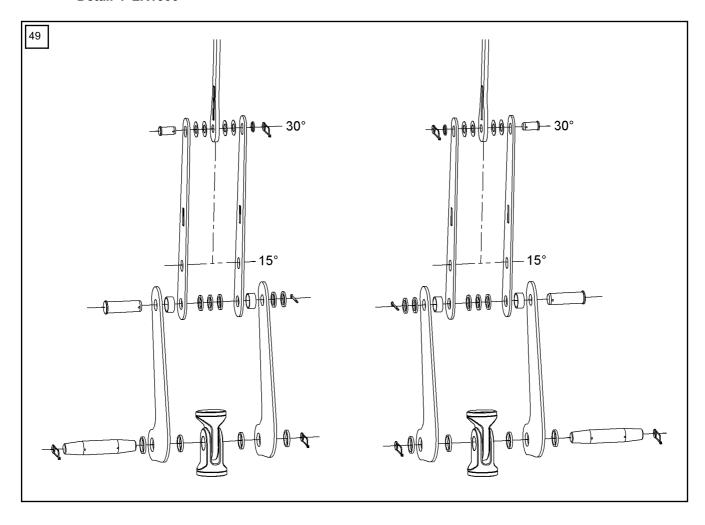
Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

- Remove the crossbar and coupling links LR1280.
- Fit the crossbar and coupling links from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1300

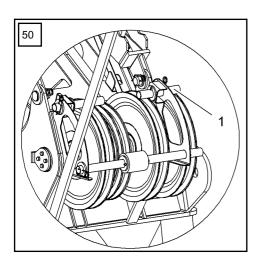




The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1300

The upper rope guard tube on the main boom head (Fig. 50, item 1) must be removed.



R UBS V003 (a)) LWN - TD7/5/201

4.10 Fixed jib 1008 from LR1300 to LR1160

If fixed jib 1008, originally supplied with an LR1300, is to be fitted to an LR1160, this modification kit must be used.

4.10.1 Product description

The modification kit contains the following components:

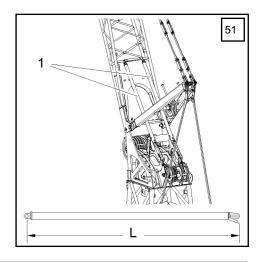
- 1x crossbar with coupling links and bolting
- 2x tilting-back supports

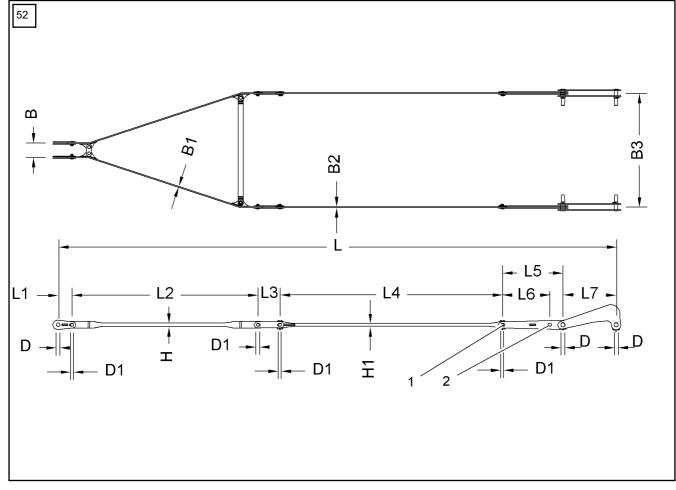
Tilting-back supports

- 1 Tilting-back supports
- L Total length = 3388 mm [133"]

Diameter of tilting-back supports = 101 mm [3.98"]

- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°





B 250 mm [9.8"]

B1 20 mm [0.78"]

B2 18 mm [0.7"]

B3 2000 mm [6.56 ft]

D Ø 65 mm [2.55"]

D1 Ø 45 mm [1.77"]

H 64 mm [2.5"]

H1 54 mm [2.1"]

L 9785 mm [32.1 ft]

L1 243 mm [9.5"]

L2 3260 mm [10.7 ft]

L3 390 mm [15.3"]

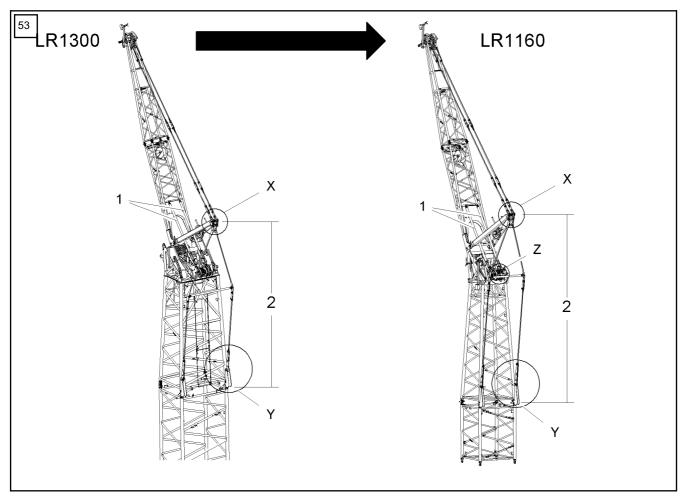
L4 3900 mm [12.8 ft]

L5 1060 mm [3.4 ft]

L6 817 mm [32.1"]

L7 932 mm [36.7"]

4.10.2 Assembly and dismantling



- 1 Tilting-back supports
- 2 Crossbar with coupling link

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 1008, originally supplied with an LR1300, is to be fitted to an LR1160, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 53, item 2).
- Tilting-back supports (Fig. 53, item 1).

IMPORTANT!

For assembly and dismantling:

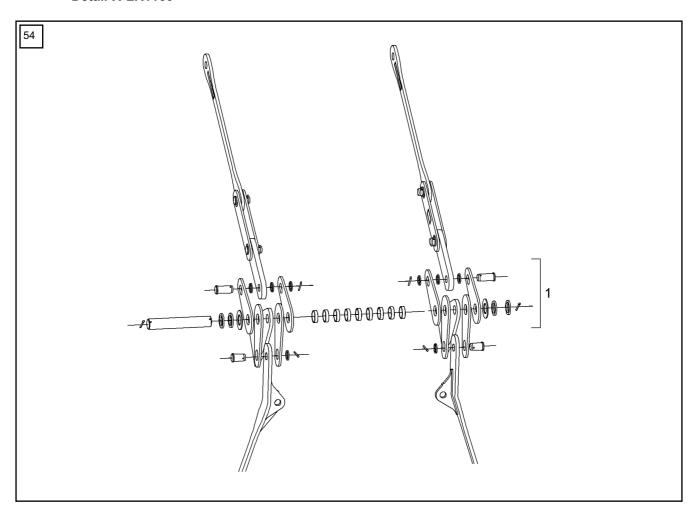


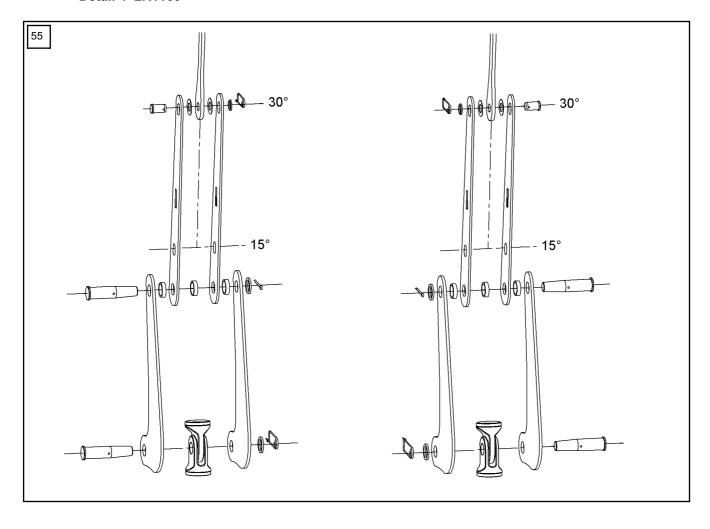
Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

- Remove the crossbar and coupling links LR1300.
- Fit the crossbar and coupling links from the modification kit.
- Remove tilting-back supports LR1300.
- Fit the tilting-back supports from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1160

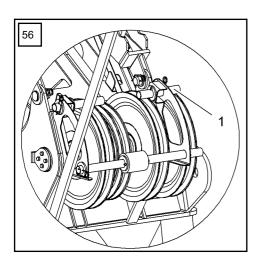




The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1160

The upper rope guard tube on the main boom head (Fig. 56, item 1) must be removed.



4.11 Fixed jib 1008 from LR1300 to LR1200

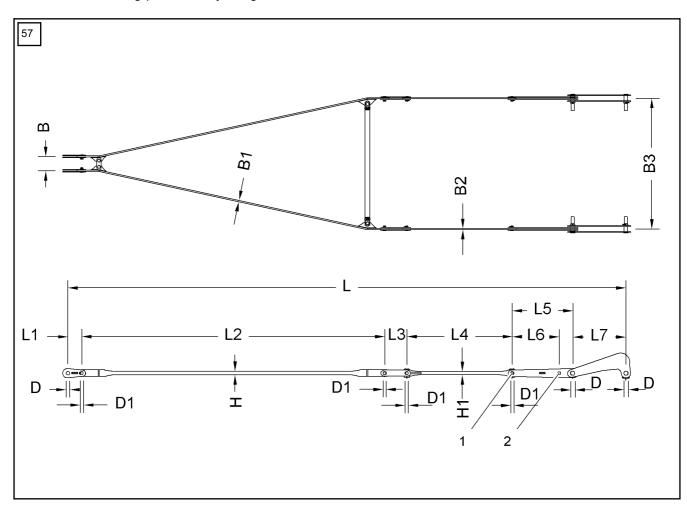
If fixed jib 1008, originally supplied with an LR1300, is to be fitted to an LR1200/LR1200SX, this modification kit must be used.

4.11.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting

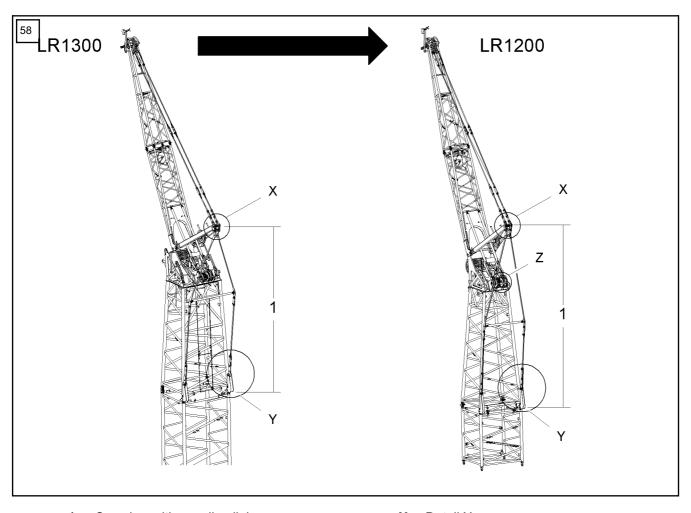
- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



- **B** 250 mm [9.8"]
- **B1** 20 mm [0.78"]
- **B2** 18 mm [0.7"]
- **B3** 2290 mm [7.5 ft]
- **D** Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **H** 64 mm [2.5"]
- **H1** 54 mm [2.1"]

- **L** 9767 mm [32.04 ft]
- **L1** 243 mm [9.5"]
- **L2** 5300 mm [17.38 ft]
- **L3** 390 mm [15.3"]
- **L4** 1842 mm [6.04 ft]
- **L5** 1060 mm [3.4 ft]
- **L6** 817 mm [32.1"]
- **L7** 932 mm [36.7"]

4.11.2 Assembly and dismantling



1 Crossbar with coupling link

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 1008, originally supplied with an LR1300, is to be fitted to an LR1200/LR1200SX, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 58, item 1).

IMPORTANT!

For assembly and dismantling:

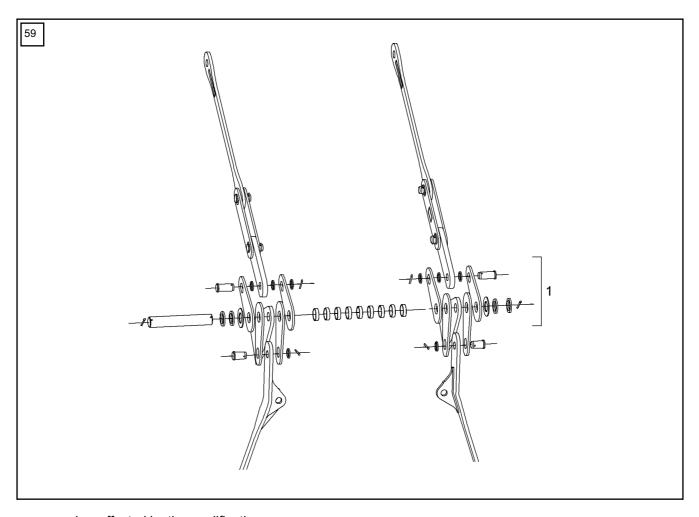


Cotter pins that have been used once must be replaced with **new** ones.

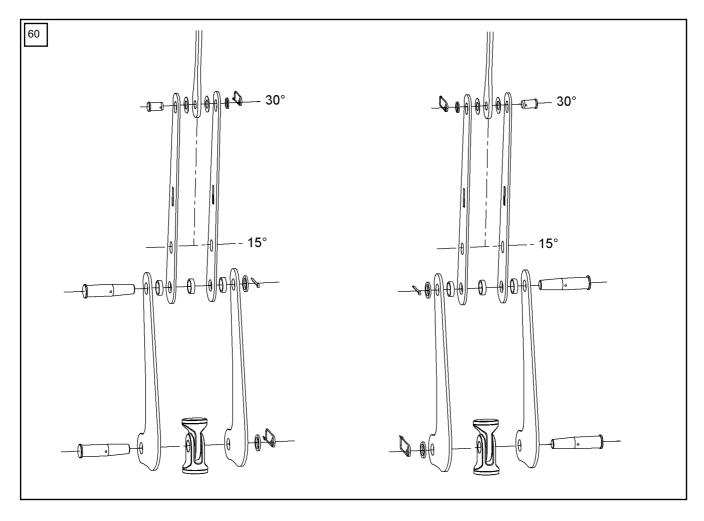
Overview of steps

- Remove the crossbar and coupling links LR1300.
- Fit the crossbar and coupling links from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1200/LR1200SX



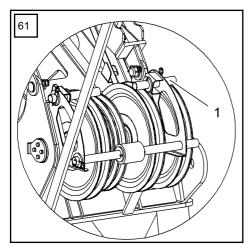
Detail Y LR1200/LR1200SX



The bolting illustrated here shows the jib angle at 30°. The lower bolting point must be used for a jib angle of 15°.

Detail Z LR1200/LR1200SX

The upper rope guard tube on the main boom head (Fig. 61, item 1) must be removed.



4.12 Fixed jib 1008 from LR1300 to LR1280

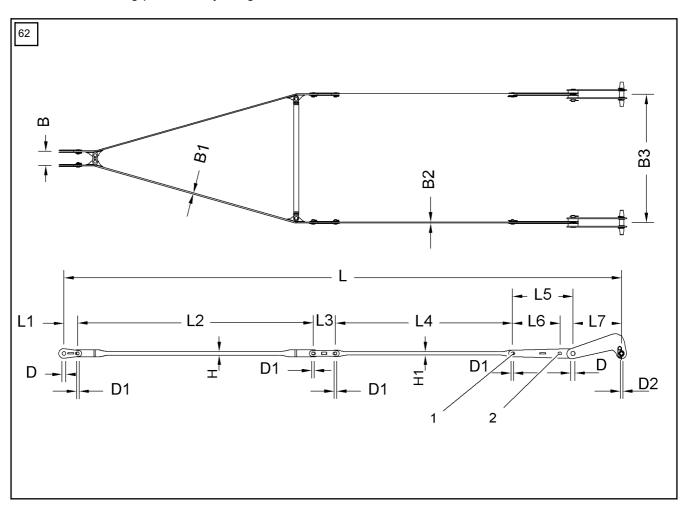
If fixed jib 1008, originally supplied with an LR1300, is to be fitted to an LR1280, this modification kit must be used.

4.12.1 Product description

The modification kit contains the following components:

- 1x crossbar with coupling links and bolting

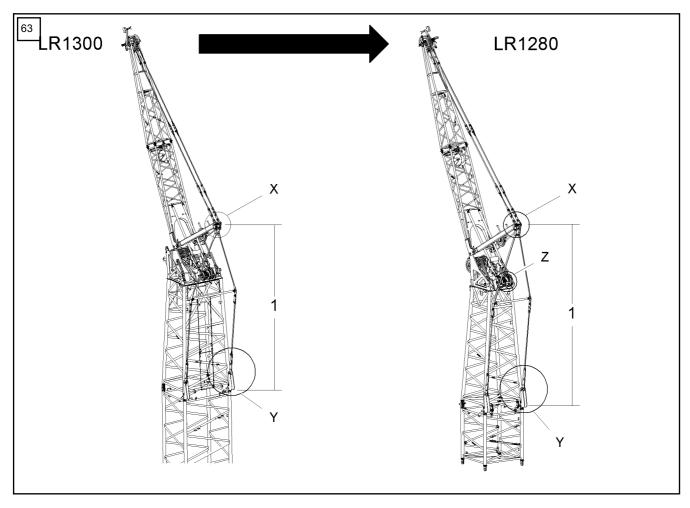
- 1 Bolting position for jib angle 30°
- 2 Bolting position for jib angle 15°



- **B** 250 mm [9.8"]
- **B1** 20 mm [0.78"]
- **B2** 18 mm [0.7"]
- **B3** 2250 mm [7.38 ft]
- **D** Ø 65 mm [2.55"]
- **D1** Ø 45 mm [1.77"]
- **D2** Ø 80 mm [3.14"]
- **H** 64 mm [2.5"]
- **H1** 54 mm [2.1"]

- **L** 9767 mm [32.04 ft]
- **L1** 243 mm [9.5"]
- **L2** 4122 mm [13.5 ft]
- **L3** 390 mm [15.3"]
- **L4** 2285 mm [7.49 ft]
- **L5** 1060 mm [3.4 ft]
- **L6** 817 mm [32.1"]
- **L7** 850 mm [33.46"]

4.12.2 Assembly and dismantling



1 Crossbar with coupling link

- X Detail X
- Y Detail Y
- **Z** Detail Z

If fixed jib 1008, originally supplied with an LR1300, is to be fitted to an LR1280, the following parts are subject to change:

- Crossbar with coupling links and bolting (Fig. 63, item 1).

IMPORTANT!

For assembly and dismantling:

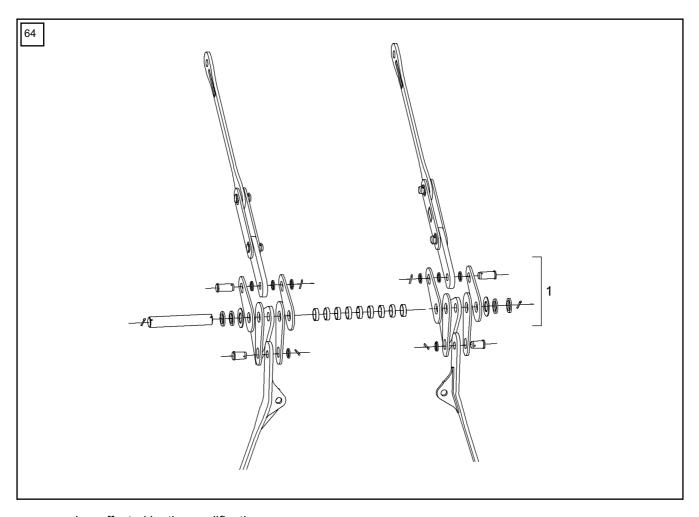


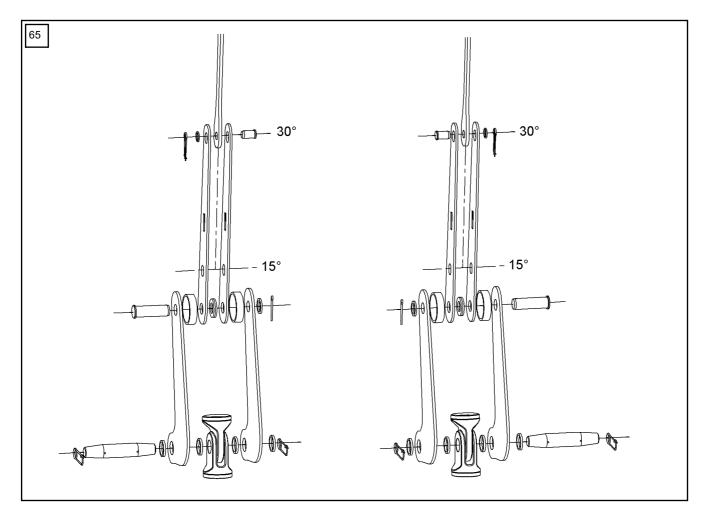
Cotter pins that have been used once must be replaced with **new** ones.

Overview of steps

- Remove the crossbar and coupling links LR1300.
- Fit the crossbar and coupling links from the modification kit.
- Remove the rope guard tube (see Detail Z).
- Carry out the rest of the assembly as described in the operating manual.

Detail X LR1280

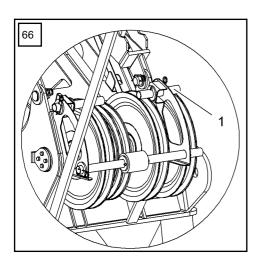




The bolting illustrated here shows the jib angle at 30° . The lower bolting point must be used for a jib angle of 15° .

Detail Z LR1280

The upper rope guard tube on the main boom head (Fig. 66, item 1) must be removed.



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5. PENDANT STRAPS//TENSIONING RODS

5.1 Pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]

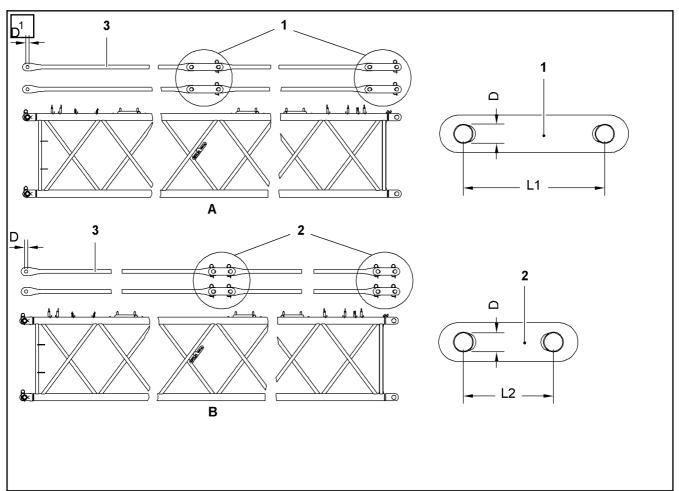
The different lengths of the pendant strap/tensioning rods is overcome using shorter coupling links.

5.1.1 Product description

The modification kit contains the following components:

- 4x coupling links per 11.7 m [38 ft] pendant strap/tensioning rod

5.1.2 Assembly and dismantling



- A Intermediate piece 12 m [40 ft]
- 1 8x coupling links, long
- **L1** 390 mm [15.35"]
- 3 2x jib tensioning rods

- **B** Intermediate piece 11.7 m [38 ft]
- 2 8x coupling links, short
- **L2** 240 mm [9.44"]
- **D** Diameter

IMPORTANT!

The diameter (D) of the pendant straps/tensioning rods and coupling links must be identical.

IMPORTANT!

After modification, the section, pendant straps and tensioning rods must be the same length.

Overview of steps

- For all 12 m [40 ft] pendant straps/tensioning rods, replace the coupling links (1) with **short** coupling links (2).



NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

The different

5.2

The different lengths of the pendant strap/tensioning rods is overcome using longer coupling links.

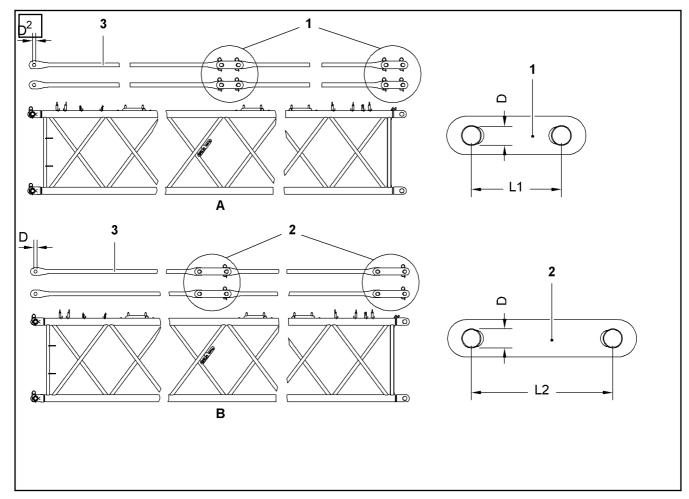
Pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]

5.2.1 Product description

The modification kit contains the following components:

- 4x coupling links per 12 m [40 ft] pendant strap/tensioning rod

5.2.2 Assembly and dismantling



- A Intermediate piece 11.7 m [38 ft]
- 1 8x coupling links, short
- **L1** 240 mm [9.44"]
- 3 2x jib tensioning rods

- B Intermediate piece 12 m [40 ft]
- 2 8x coupling links, long
- **L2** 390 mm [15.35"]
- **D** Diameter



The diameter (D) of the pendant straps/tensioning rods and coupling links must be identical.

IMPORTANT!

After modification, the section, pendant straps and tensioning rods must be the same length.

Overview of steps

- For all 11.7 m [38 ft] pendant straps/tensioning rods, replace the coupling links (1) with **long** coupling links (2).



NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

6. COUPLING LINKS

6.1 Coupling link diameter modification kit

Different diameters for:

- Coupling links, basic rope, A-frame 2
- Jib tensioning rods
- Pivot points on main boom pivot piece for jib tensioning rods

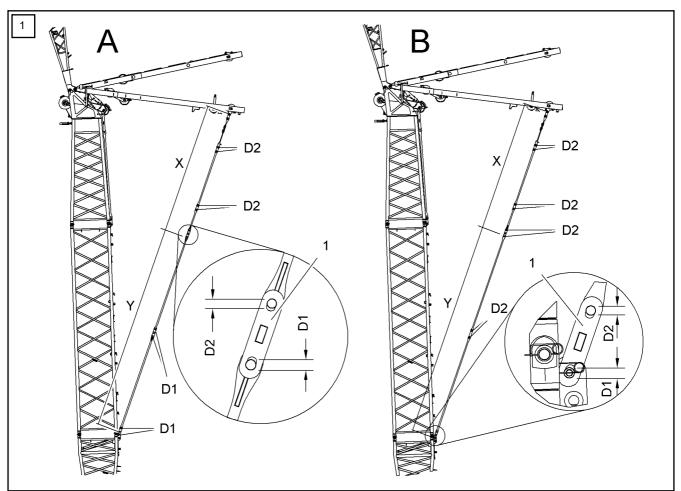
are overcome by coupling links. These coupling links have 2 different diameters.

6.1.1 Product description

The modification kit contains the following components:

- 4x Coupling links

6.1.2 Assembly and dismantling



- A Installation position A
- 1 Coupling links (modification kit)
- **D1** Diameter 1
- X Basic rope A-frame 2

- **B** Installation position **B**
- D2 Diameter 2
- Y Jib tensioning rods

Overview of steps

Installation position A:

- Remove coupling links, basic rope A-frame 2.
- Replace with coupling links (modification kit).

Installation position B:

- Remove coupling links on the pivot points on the main boom pivot piece.
- Replace with coupling links (modification kit).



NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

7. LUFFING JIB 1309

7.1 Luffing jib 1309 from LR1100 to LR1130

If luffing jib 1309, originally supplied with an LR1100, is to be fitted to an LR1130, this modification kit must be used.

7.1.1 Prerequisites

Main boom

Jib tensioning rods 18/54/45 must be available for the machine on which the kit is to be fitted.

Option A:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1130 are used.

Option B:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1100 are used.

NOTE!

The jib tensioning rods for option A and B are identical.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.

A NOTE!

The jib adjusting winch from the LR1100 can **not** be used.

7.1.2 Product description

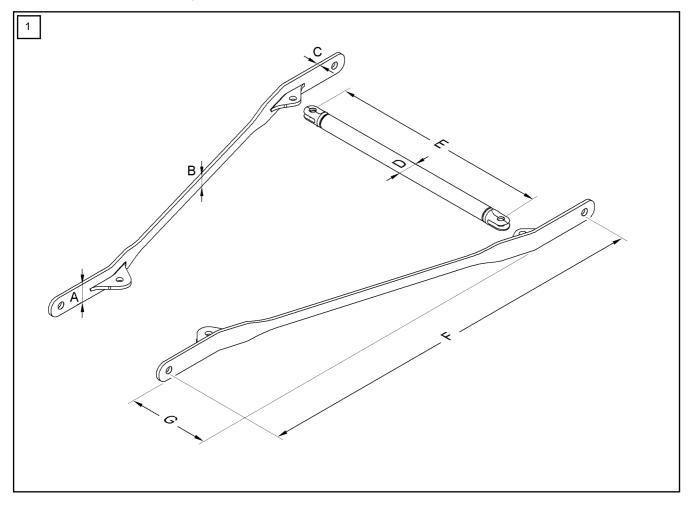
The modification kit contains the following components:

- Crossbar with compression bar

Option A/B:

- 1x crossbar with compression bar

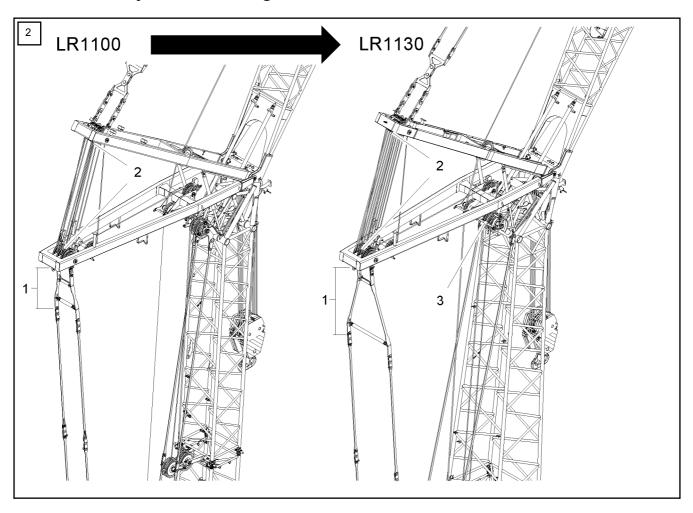
Crossbar with compression bar



- 122 mm [4.8"] 64 mm [2.5"] 20 mm [0.78"] 89 mm [3.5"] A B
- С

- Ε
- 1490 mm [58.66"] 2730 mm [107.48"] F
- **G** 583 mm [22.95"]

7.1.3 Assembly and dismantling



- 1 Crossbar
- 2 Reeving of jib adjusting rope

3 Rope guard tube

If luffing jib 1309, originally supplied with an LR1100, is to be fitted to an LR1130, the following parts are subject to change:

Option A/B:

- Crossbar (Fig. 2, item 1).
- Reeving of jib adjusting rope (Fig. 2, item 2).
- Remove the rope guard tube (Figure 2, item 3).

Overview of steps

Option A/B:

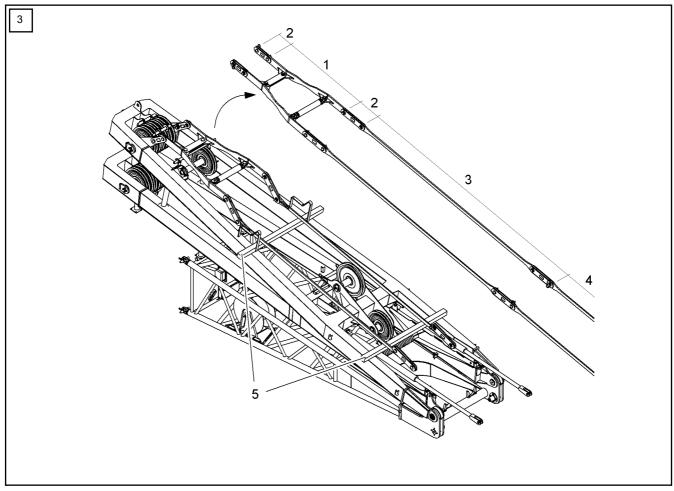
- Mount the jib tensioning rods on LR1130.
- Remove crossbar LR1100.
- Assemble crossbar (modification kit).
- Fit crossbar (modification kit) to LR1130.
- Reeve the jib adjusting rope.
- Fit the rope guard tube.
- Carry out the rest of the assembly as described in the operating manual.

Removing the crossbar of the LR1100

The crossbar with compression bar and coupling link (Fig. 3, item 1) must be changed. The coupling links (Fig. 3, item 2) and the tensioning rods (Fig. 3, items 3 +4) are mounted back on the crossbar of the modification kit.

The 3 m [10 ft] tensioning rods (Fig. 3, item 4) are part of the scope of supply of the jib add-on parts.

In order to provide the tensioning rods (Fig. 3, items 3+4) with a support on A-frame 2, two wooden blocks (Fig. 3, item 5) of $80 \times 80 \times 1800$ mm [3" $\times 3$ " $\times 70$ "] are used.

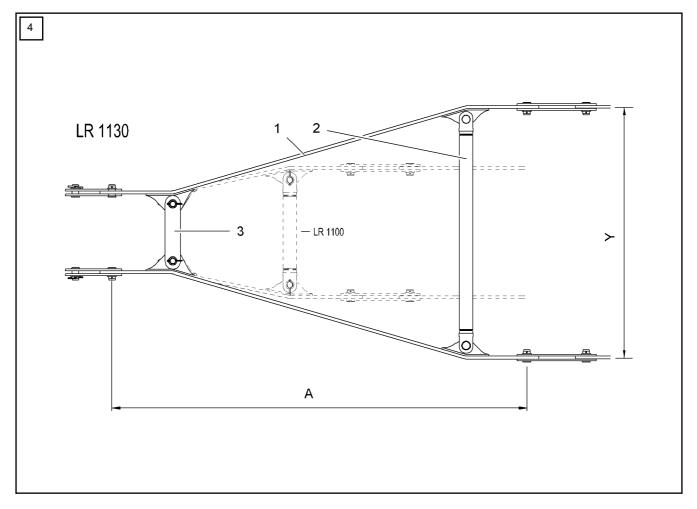


- Crossbar with compression bar and coupling link
- 2 Coupling links with bolts, plain washers and cotter pins
- 3 Tensioning rods with coupling links
- 4 3 m [10 ft] tensioning rods
- 5 Wooden blocks as support

- Place wooden blocks on A-frame 2 as support.
- Remove the crossbar of the LR1100 on A-frame 2.
- Remove coupling links with bolts, plain washers and cotter pins.
- Remove the tensioning rods.

Assembling the crossbar (modification kit)

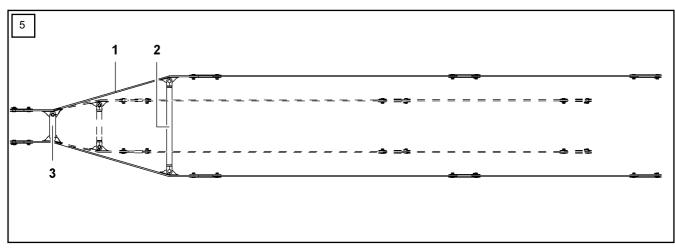
- The solid lines show the components for the LR1130.
- The dotted lines show the components for the LR1100.



- 1 Crossbar
- 2 Pressure bar
- 3 Coupling link

- **A** 2730 mm [107.48"]
- Y 1650 mm [65"]

The coupling link (Fig. 4 + Fig. 5, item 3) is received by the crossbar of the LR1100, as are the tensioning rods, coupling links, bolts and plain washers for the compression bar (Fig. 4 + Fig. 5, item 2) and the crossbar (Fig. 4 + Fig. 5, item 1).





NOTE!

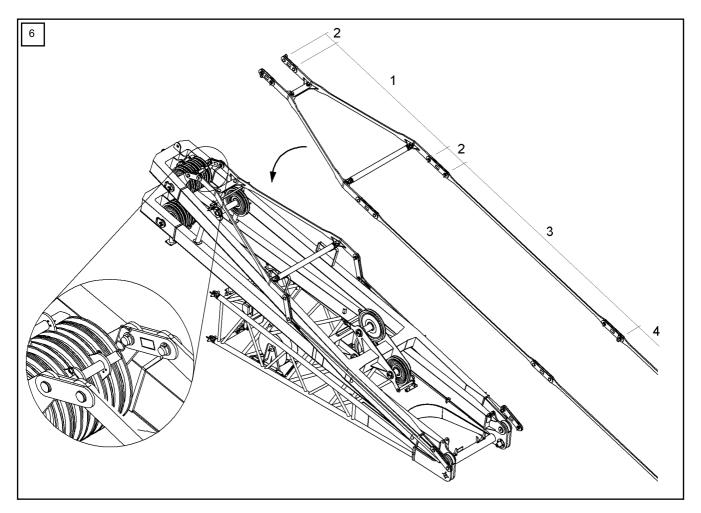
Cotter pins that have been used once must be replaced with new ones.

Procedure

- Disassemble the removed crossbar.
- Assemble new crossbar according to Figure 5.
- Fit coupling links, bolts with cotter pins and plain washers to the modification kit.
- Fit the tensioning rods to the modification kit.
- Tighten all bolts.

Fitting the crossbar (modification kit) to the LR1130

The preassembled crossbar is fitted to A-frame 2 of the luffing jib.

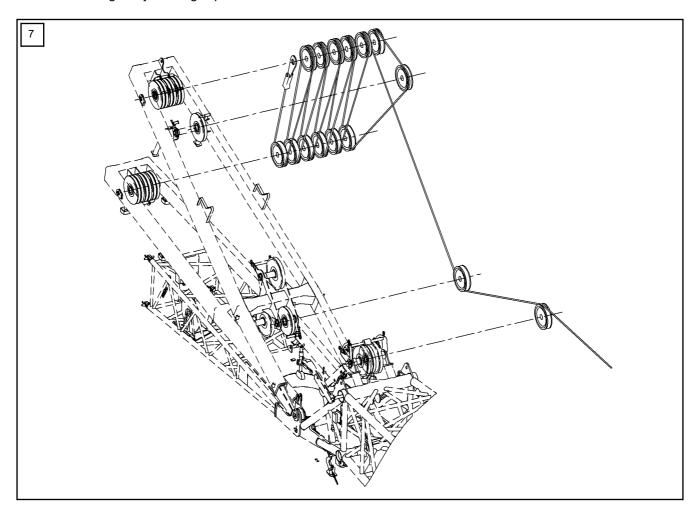


- Crossbar with compression bar and coupling link
- 2 Coupling links with bolts, plain washers and cotter pins
- 3 Tensioning rods with coupling links
- 4 3 m [10 ft] tensioning rods

- Fit preassembled crossbar to A-frame 2.
- Tighten all bolts.

Reeve the jib adjusting rope.

While fitting luffing jib 1309 to the LR1130, the following **reeving diagram** must be used when reeving the jib luffing rope.



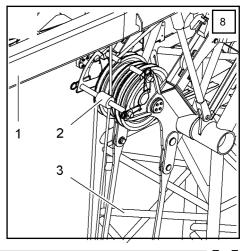
Procedure

- Lift A-frame 2 up slightly in order to allow the jib adjusting rope to be reeved.
- Reeve the jib adjusting rope according to the rope reeving system.

Fitting the rope guard tube

If the luffing jib is to be fitted to the LR1130, the rope guard tube must be **fitted** on the gantry pulleys on the main boom head.

- 1 A-frame 2
- 2 Rope guard tube
- 3 Main boom head



7.2 Luffing jib 1309 from LR1100 to LR1160

If luffing jib 1309, originally supplied with an LR1100, is to be fitted to an LR1160, this modification kit must be used.

7.2.1 Prerequisites

Main boom

Jib tensioning rods 18/54/45 must be available for the machine on which the kit is to be fitted.

Option A:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1160 are used.

Option B:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1100 are used.

NOTE!

In option B the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.

NOTE!

The jib adjusting winch from the LR1100 can **not** be used.

7.2.2 Product description

The modification kit contains the following components:

- Crossbar with compression bar

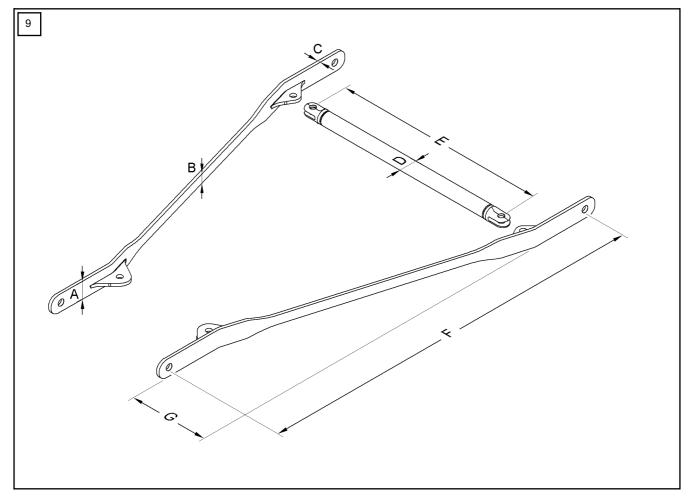
Option A:

- 1x crossbar with compression bar

Option B:

- 1x crossbar with compression bar
- "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit

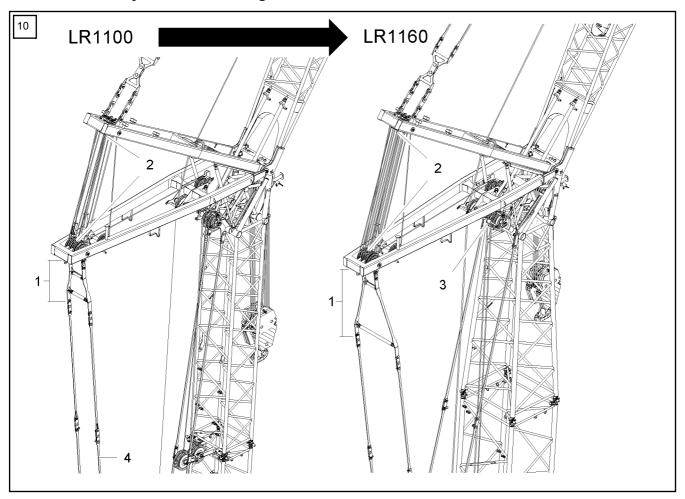
Crossbar with compression bar



- A B
- 122 mm [4.8"] 64 mm [2.5"] 20 mm [0.78"] С
- 89 mm [3.5"]

- 792 mm [31.2"] 1570 mm [61.8"] 163 mm [6.42"] E F
- G

7.2.3 Assembly and dismantling



- 1 Crossbar
- 2 Reeving of jib adjusting rope

- 3 Rope guard tube
- 4 3 m [10 ft] tensioning rods

If luffing jib 1309, originally supplied with an LR1100, is to be fitted to an LR1160, the following parts are subject to change:

Option A:

- Crossbar (Fig. 10, item 1).
- Reeving of jib adjusting rope (Fig. 10, item 2).
- 3 m [10 ft] tensioning rods (Fig. 10, item 4).
- Remove the rope guard tube (Figure 10, item 3).

Option B:

- Crossbar (Fig. 10, item 1).
- Reeving of jib adjusting rope (Fig. 10, item 2).
- 3 m [10 ft] tensioning rods (Fig. 10, item 4).
- Remove the rope guard tube (Figure 10, item 3).
- Jib tensioning rods from 12 m [40 ft] to 11.7 m [38 ft]

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Overview of steps

Option A:

- Mount the jib tensioning rods on LR1160.
- Remove crossbar LR1100.
- Remove the 3 m [10 ft] tensioning rods.
- Assemble crossbar (modification kit).
- Fit crossbar (modification kit) to LR1160.
- Reeve the jib adjusting rope.
- Fit the rope guard tube.
- Carry out the rest of the assembly as described in the operating manual.

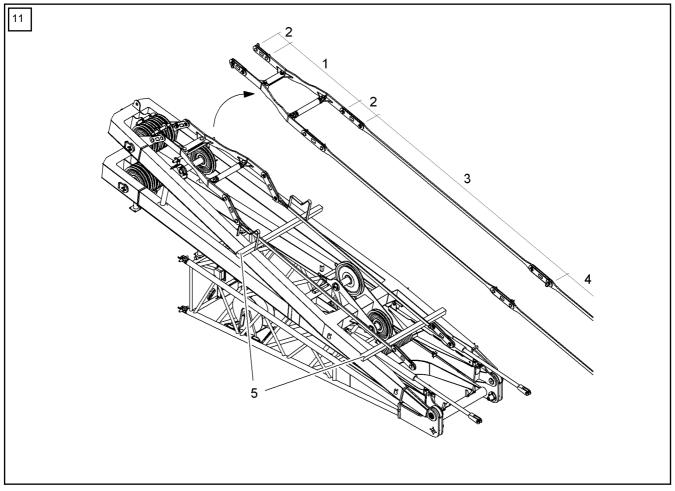
Option B:

- Replace the coupling links on the jib tensioning rods LR1100 with the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit.
- Mount the jib tensioning rods on LR1160.
- Remove crossbar LR1100.
- Remove the 3 m [10 ft] tensioning rods.
- Assemble crossbar (modification kit).
- Fit crossbar (modification kit) to LR1160.
- Reeve the jib adjusting rope.
- Fit the rope guard tube.
- Carry out the rest of the assembly as described in the operating manual.

Removing the crossbar of the LR1100

The crossbar with compression bar and coupling link (Fig. 11, item 1) must be changed. The coupling links (Fig. 11, item 2) and the tensioning rods (Fig. 11, item 3) are fitted back onto the crossbar of the modification kit. The 3 m [10 ft] tensioning rods (Fig. 11, item 4) are **not** attached to the crossbar of the modification kit.

In order to provide the tensioning rods (Fig. 11, items 3+4) with a support on A-frame 2, two wooden blocks (Fig. 11, item 5) of 80 x 80 x 1800 mm [3" x 3" x 70"] are used.



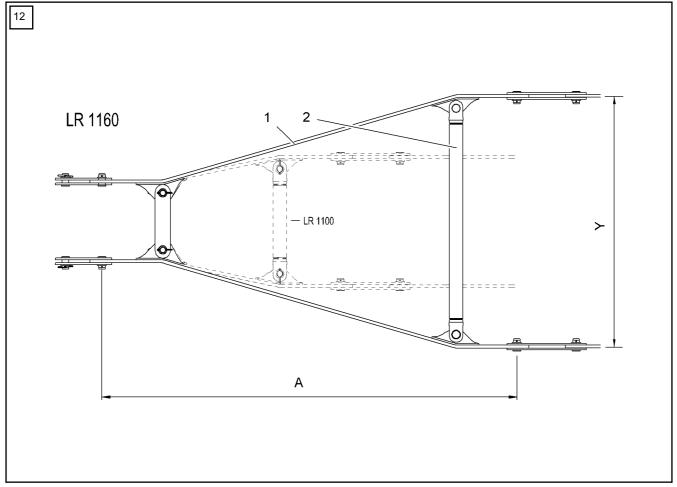
- 1 Crossbar with compression bar and coupling link
- 2 Coupling links with pin, plain washers and cotter pins

- 3 Tensioning rods with coupling links
- 4 3 m [10 ft] tensioning rods
- 5 Wooden blocks as support

- Place wooden blocks on A-frame 2 as support.
- Remove the crossbar of the LR1100 on A-frame 2.
- Remove coupling links with bolts, plain washers and cotter pins.
- Remove all tensioning rods.

Assembling the crossbar (modification kit)

- The solid lines show the extent of the components for the LR1160.
- The dotted lines show the extent of the components for the LR1100.



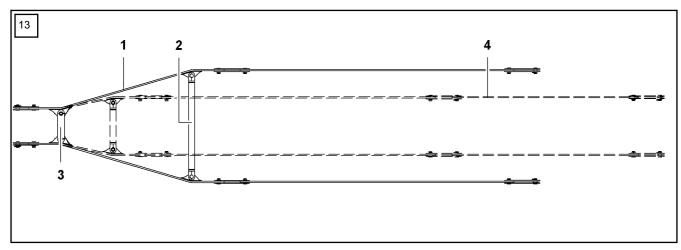
- 1 Crossbar
- 2 Pressure bar

A 2730 mm [107.48"]

Y 1650 mm [65"]

The coupling link (Fig. 13, item 3) is received by the crossbar of the LR1100, as are the tensioning rods, coupling links, bolts and plain washers for the compression bar (Fig. 12 + Fig. 13, item 2) and the crossbar (Fig. 12 + Fig. 13, item 1).

Exception: The 3 m [10 ft] tensioning rods (Fig. 11 + Fig. 13, item 4) are no longer fitted.





NOTE!

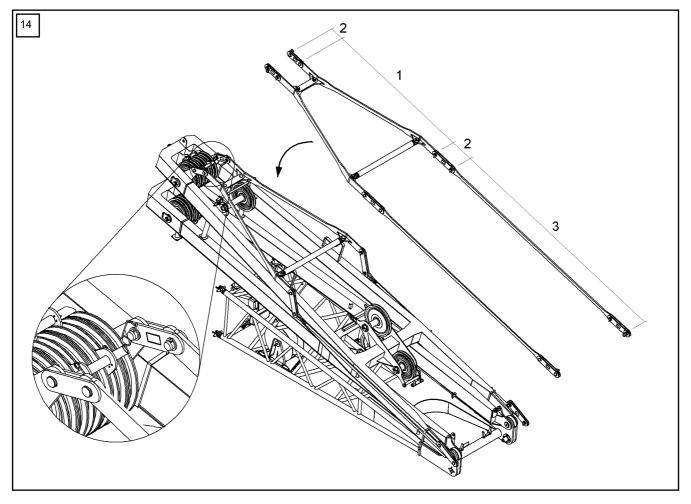
Cotter pins that have been used once must be replaced with new ones.

Procedure

- Assemble crossbar according to Figure 13.
- Fit all coupling links, bolts and plain washers to the modification kit.
- Fit the tensioning rods to the modification kit.
- Do not fit the 3 m [10 ft] tensioning rods to the modification kit.
- Tighten all bolts.

Fitting the crossbar (modification kit) to the LR1160

The preassembled crossbar is fitted to A-frame 2 of the luffing jib.



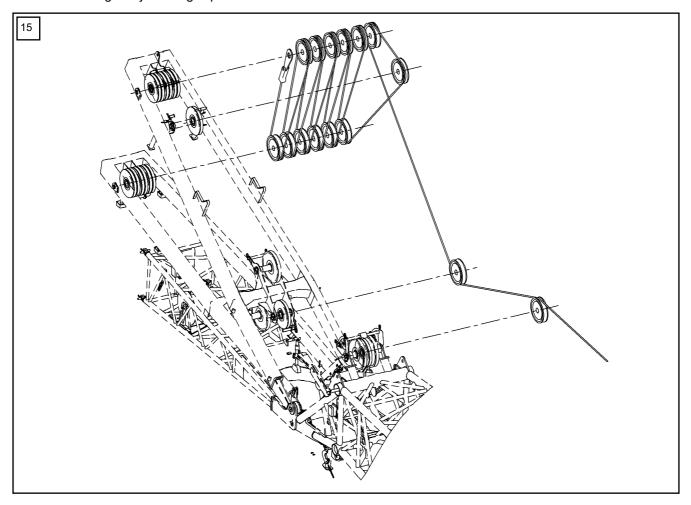
- 1 Crossbar with compression bar and coupling link
- 2 Coupling links with bolts, plain washers and cotter pins

3 Tensioning rods with coupling links

- Fit preassembled crossbar to A-frame 2.
- Tighten all bolts.

Reeve the jib adjusting rope.

While fitting luffing jib 1309 to the LR1160, the following **reeving diagram** must be used when reeving the jib luffing rope.



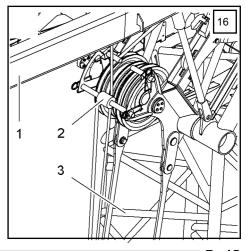
Overview of steps

- Lift A-frame 2 up slightly in order to allow the jib adjusting rope to be reeved.
- Reeve the jib adjusting rope according to the rope reeving system.

Fitting the rope guard tube

If the luffing jib is to be fitted to the LR1160, the rope guard tube must be **fitted** on the gantry pulleys on the main boom head.

- 1 A-frame 2
- 2 Rope guard tube
- 3 Main boom head



7.3 Luffing jib 1309 from LR1130 to LR1100

If luffing jib 1309, originally supplied with an LR1130, is to be fitted to an LR1100, this modification kit must be used.

7.3.1 Prerequisites

Main boom

Jib tensioning rods 18/54/45 must be available for the machine on which the kit is to be fitted.

Option A:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1100 are used.

Option B:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1130 are used.

NOTE!

The jib tensioning rods for option A and B are identical.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 1 jib adjusting winch.

NOTE!

The jib adjusting winch from the LR1130 can **not** be used.

Jib adjusting rope

The 200 m [656 ft] rope must be wound on the jib adjusting winch.

7.3.2 Product description

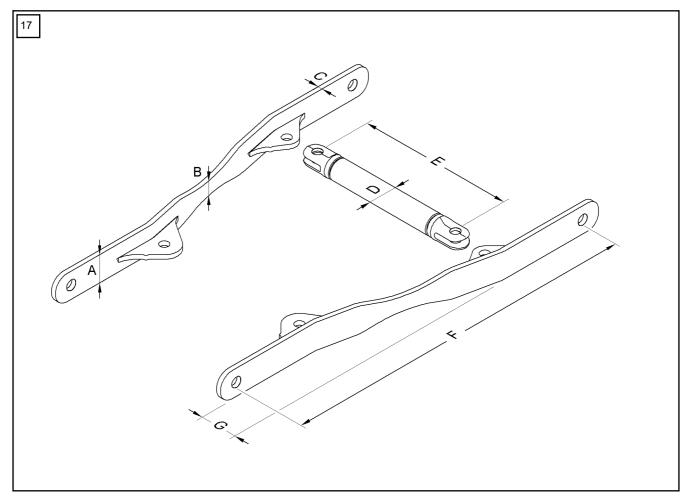
The modification kit contains the following components:

- Crossbar with compression bar
- Limit switch plate

Option A/B:

- 1x crossbar with compression bar
- 1x limit switch plate

Crossbar with compression bar

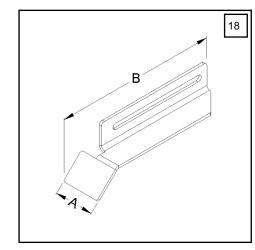


- **A** 122 mm [4.8"]
- **B** 64 mm [2.5"]
- **C** 20 mm [0.78"]
- **D** 89 mm [3.5"]

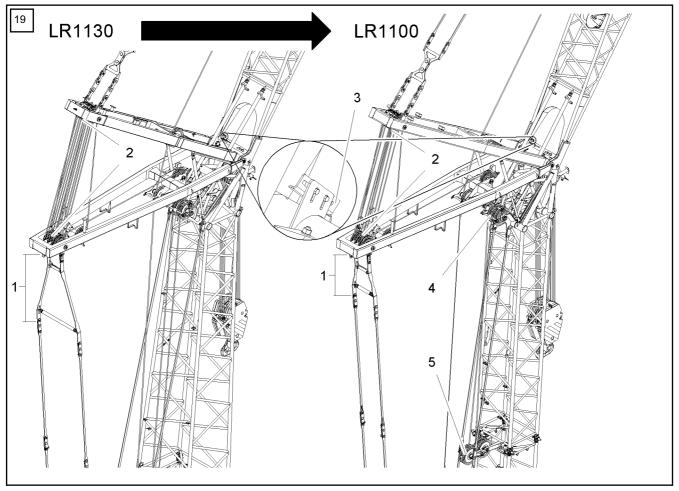
- **E** 792 mm [31.2"]
- **F** 1570 mm [61.8"]
- **G** 163 mm [6.42"]

Limit switch plate

- **A** 59 mm [2.32"]
- **B** 233 mm [9.17"]



7.3.3 Assembly and dismantling



- 1 Crossbar
- 2 Reeving of jib adjusting rope

- 3 Limit switch plate
- 4 Rope guard tube
- 5 Rope guide

If luffing jib 1309, originally supplied with an LR1130, is to be fitted to an LR1100, the following parts are subject to change:

Option A/B:

- Crossbar (Fig. 19, item 1).
- Reeving of jib adjusting rope (Fig. 19, item 2).
- Limit switch plate (Fig. 19, item 3).
- Remove the rope guard tube (Figure 19, item 4).

Overview of steps

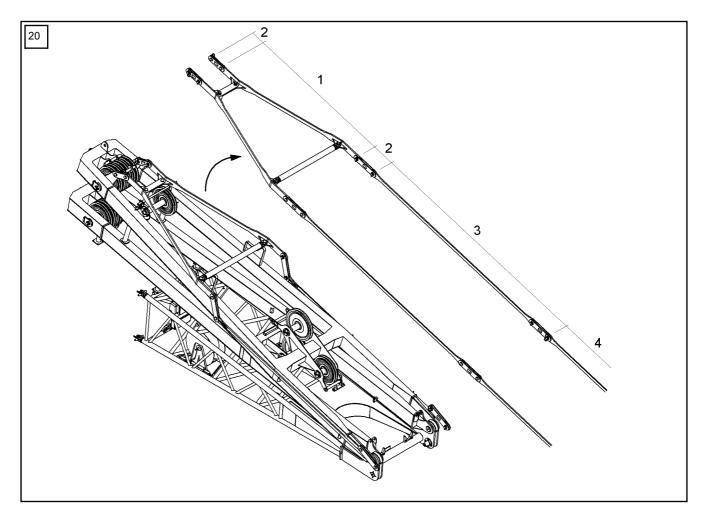
Option A/B:

- Mount the jib tensioning rods on LR1100.
- Remove crossbar of LR1130.
- Assemble crossbar (modification kit).
- Fit crossbar (modification kit) to LR1100.
- Reeve the jib adjusting rope.
- Fit limit switch plate (if required).
- Check rope guard tube.
- Check angle of luffing jib (if necessary).
- Carry out the rest of the assembly as described in the operating manual.

Remove the crossbar of the LR1130

The crossbar with compression bar and coupling link (Fig. 20, item 1) must be changed. The coupling links (Fig. 20, item 2) and the tensioning rods (Fig. 20, items 3 +4) are mounted back on the crossbar of the modification kit.

The 3 m [10 ft] tensioning rods (Fig. 20, item 4) are part of the scope of supply of the jib add-on parts.

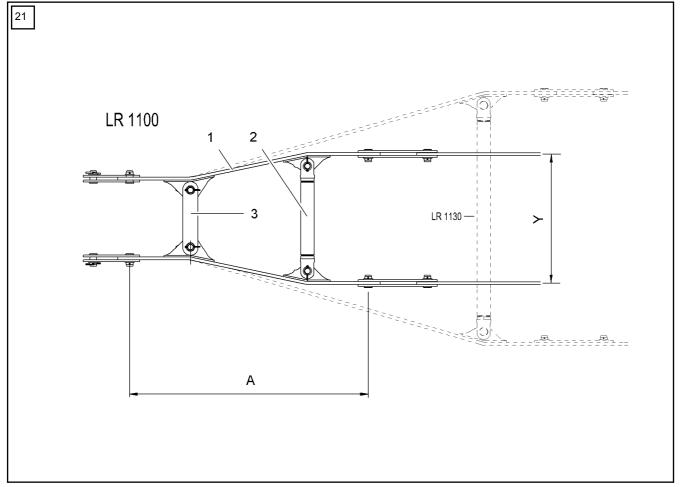


- 1 Crossbar with compression bar and coupling link
- 2 Coupling links with bolts, plain washers and cotter pins
- 3 Tensioning rods with coupling links
- 4 3 m [10 ft] tensioning rods

- Remove the crossbar of the LR1130 on A-frame 2.
- Remove coupling links (Fig. 20, item 2) plus bolts, cotter pins and plain washers.
- Remove tensioning rods (Fig. 20, items 3+4).

Assembling the crossbar (modification kit)

- The solid lines show the components for the LR1100.
- The dotted lines show the components for the LR1130.



- 1 Crossbar
- 2 Pressure bar
- 3 Coupling link

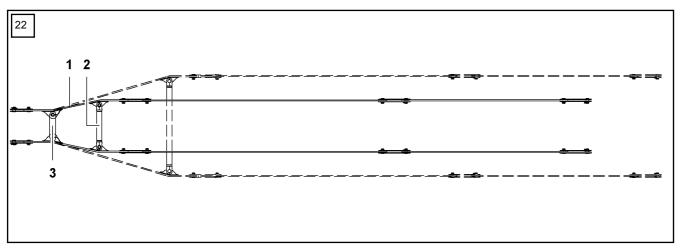
- **A** 1570 mm [61.8"]
- Y 850 mm [33.46"]

The coupling link (Fig. 21 + Fig. 22, item 3) is received by the crossbar of the LR1130, as are the tensioning rods, coupling links, bolts and plain washers for the compression bar (Fig. 21 + Fig. 22, item 2) and the crossbar (Fig. 21 + Fig. 22, item 1).



NOTE!

Cotter pins that have been used once must be replaced with **new** ones.



Procedure

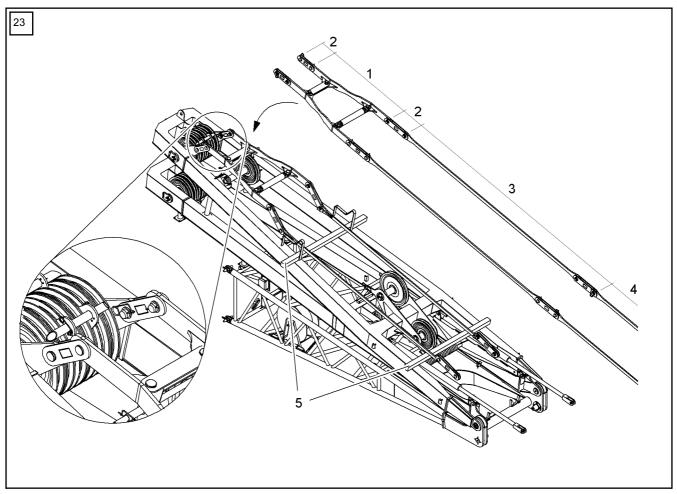
- Disassemble the removed crossbar.
- Assemble new crossbar according to Figure 22 .
- Fit all coupling links, bolts and plain washers to the modification kit.
- Fit the tensioning rods to the modification kit.
- Tighten all bolts.

Fitting the crossbar (modification kit) to the LR1100

The preassembled crossbar is fitted to A-frame 2 of the luffing jib.

In order to provide the tensioning rods (Fig. 23, items 3+4) with a support on A-frame 2, two wooden blocks (Fig. 23, item 5) of 80 x 80 x 1800 mm [3" x 3" x 70"] are used.

The 3 m [10 ft] tensioning rods (Fig. 23, item 4) are part of the scope of supply of the jib add-on parts. For transport, these are mounted onto the main boom head.



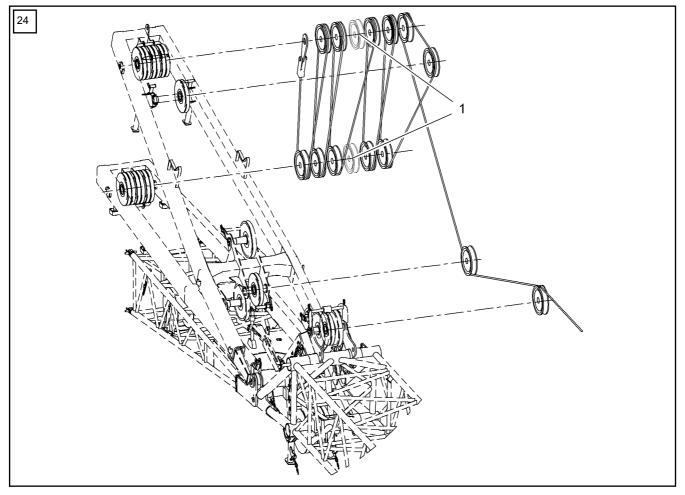
- Crossbar with compression bar and coupling link
- Tensioning rods with coupling links 3
- 2 Coupling links with bolts, plain washers and cotter pins
- 5
- Wooden blocks as support

3 m [10 ft] pendant strap

- Place wooden blocks on A-frame 2.
- Fit preassembled crossbar to A-frame 2.
- Tighten all bolts.

Reeve the jib adjusting rope.

While fitting the luffing jib 1309 to the LR1100, the following **reeving diagram** must be used when reeving the jib luffing rope.



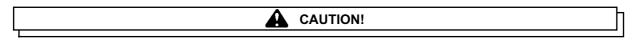
1 Unreeved pulleys

Procedure

- Lift A-frame 2 up slightly in order to allow the jib adjusting rope to be reeved.
- Reeve the jib adjusting rope according to the rope reeving system.

Fitting the limit switch plate

To avoid colliding with the luffing jib when raising the main boom, a limit switch is fitted to the main boom head and a limit switch plate is attached to the jib pivot piece.



Damage to the machine by undercutting the permitted angle between main boom and jib during erection.

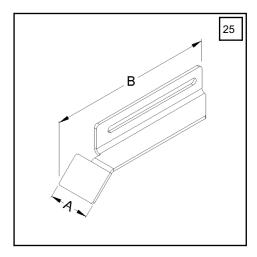
Replace the limit switch plate on the luffing jib of the LR1100 and adjust so that it trips when the permitted angle between the main boom and the jib is undercut.



NOTE!

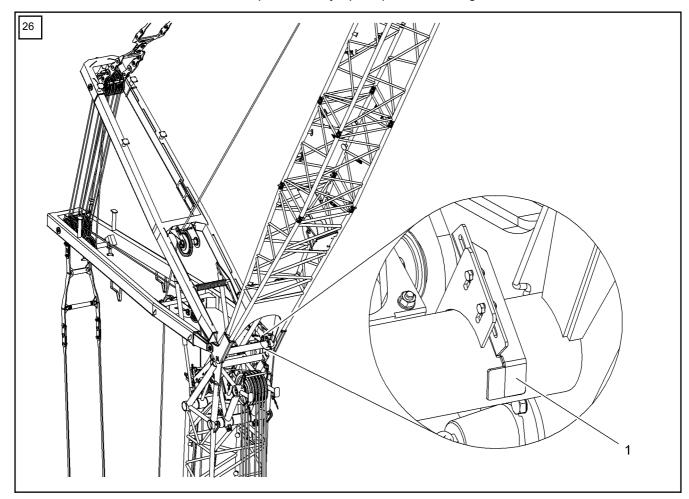
If the limit switch plate illustrated is already attached to the jib pivot piece, ignore the "Fitting the limit switch plate" step and proceed to the chapter entitled "Checking the rope guard tube". Also ignore the "Checking the angle of the luffing jib" step.

A 59 mm [2.32"] **B** 233 mm [9.17"]



Procedure

- Mark the location where the limit switch plate is attached to the jib pivot piece:
- 2 points on the limit switch plate and 2 points on the mounting.
- Transfer the two points from the limit switch plate to the new limit switch plate.
- Attach the new limit switch plate to the jib pivot piece according to these marks.

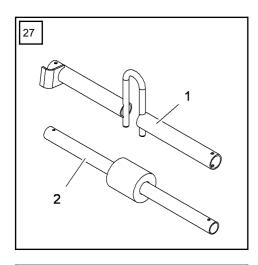


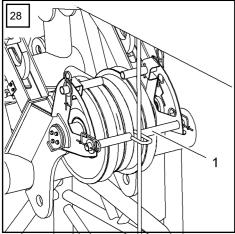
1 Newly attached limit switch plate

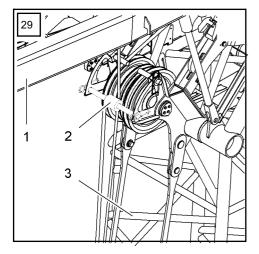


NOTE!

When the limit switch plate is adjusted, the angle between main boom and jib must be reset.







Checking the rope guard tube

These are two types of rope guard tube

- **1** Type 1
- **2** Type 2

Different procedures are employed depending on the type of rope guard tube.

Rope guard tube type 1

If the depicted rope guard tube (Fig. 28, item 1) is fitted to the gantry pulleys on the main boom head of the LR1100, it must **not be removed** on the gantry pulleys on the main boom head.

Rope guard tube type 2

If the depicted rope guard tube (Fig. 29, item 2) is fitted to the gantry pulleys on the main boom head of the LR1100, it must **be removed** on the gantry pulleys on the main boom head.

- 1 A-frame 2
- 2 Rope guard tube
- 3 Main boom head

Procedure

- Remove rope guard tube

Checking the angle of the luffing jib



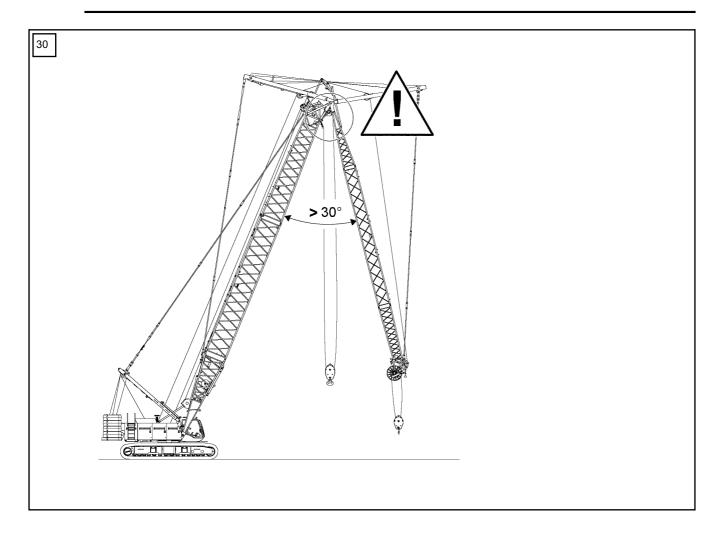
NOTE!

When the limit switch plate is adjusted, the angle between main boom and jib must be reset.

The crane is assembled with a short main boom and a short jib.



Damage to machine if permitted angle is undercut. When lifting, ensure than the angle is never less than 30°.



- Assemble machine with short main boom and short jib.
- Raise machine as shown in Figure 30.
 Monitor angle between main boom and jib.
- Using a lifting platform, go up to the main boom head and measure the angle of the main boom in relation
- to the jib using a protractor.
- Set the angle by carefully adjusting the jib.
- After achieving the desired position, set the limit switch plate to this position. This ensures that the angle is never undercut.

7.4 Luffing jib 1309 from LR1130 to LR1160

If luffing jib 1309, originally supplied with an LR1130, is to be fitted to an LR1160, this modification should be carried out as follows.

7.4.1 Prerequisites

Main boom

Jib tensioning rods 18/54/45 must be available for the machine on which the kit is to be fitted.

Option A:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1160 are used.

Option B:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1130 are used.

♠ NOTE!

In option B the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.

NOTE!

The jib adjusting winch from the LR1130 can be used.

7.4.2 Product description

The modification kit contains the following components:

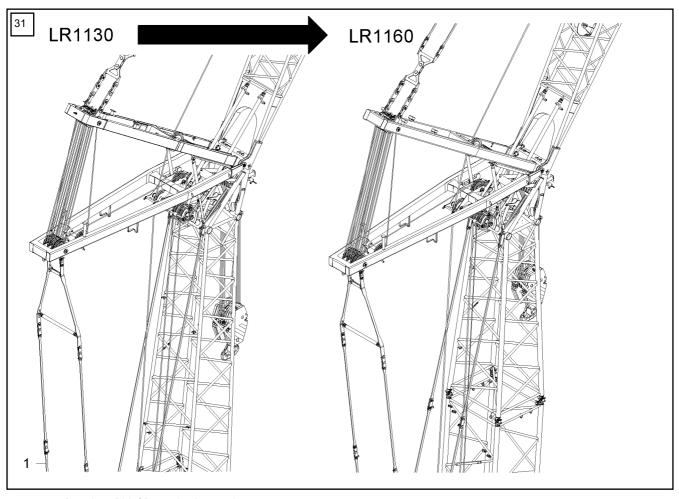
- no parts to be fitted

Option A:

- No modification kit required

Option B:

- "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit



1 3 m [10 ft] tensioning rods

If luffing jib 1309, originally supplied with an LR1130, is to be fitted to an LR1160, the following parts are subject to change:

Option A:

- 3 m [10 ft] tensioning rods (Fig. 31, item 1).
- Rope guard tube

- 3 m [10 ft] tensioning rods (Fig. 31, item 1).
- Rope guard tube
- Jib tensioning rods from 12 m [40 ft] to 11.7 m [38 ft]

Overview of steps

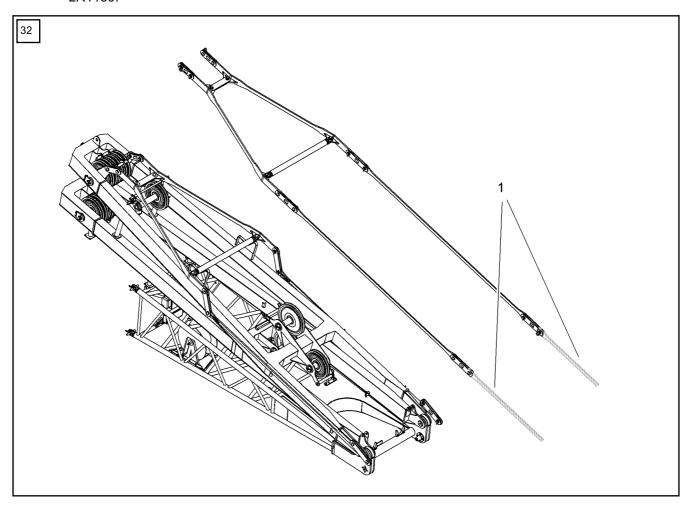
Option A:

- Mount the jib tensioning rods on LR1160.
- Detach 3 m [10 ft] tensioning rods on LR1130.
- Reeve the jib adjusting rope.
- Fit the rope guard tube.
- Carry out the rest of the assembly as described in the operating manual.

- Replace the coupling links on jib tensioning rods LR1130 with the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit.
- Mount the jib tensioning rods on LR1160.
- Detach 3 m [10 ft] tensioning rods on LR1130.
- Reeve the jib adjusting rope.
- Fit the rope guard tube.
- Carry out the rest of the assembly as described in the operating manual.

Detach the 3 m [10 ft] tensioning rods on the LR1130.

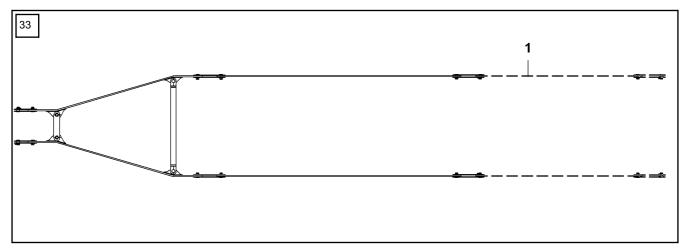
The 3 m [10 ft] tensioning rods (Fig. 32 + Fig. 33, item 1) \mathbf{must} be $\mathbf{removed}$ from the crossbar of the LR1130.



1 3 m [10 ft] tensioning rods

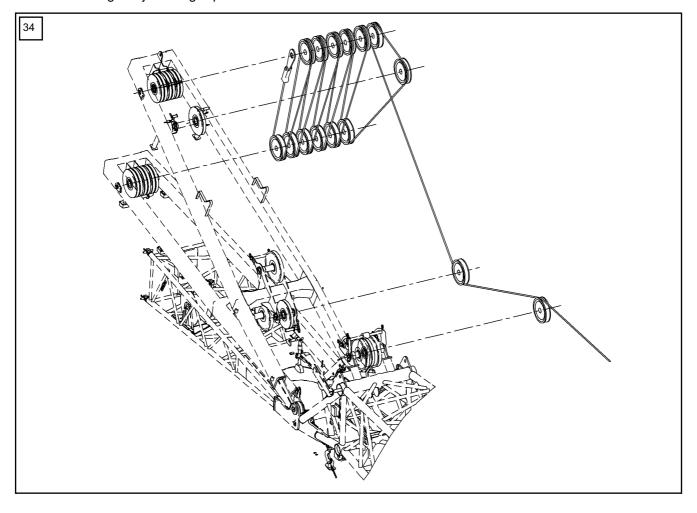
Procedure

- Remove the 3 m [10 ft] tensioning rods.



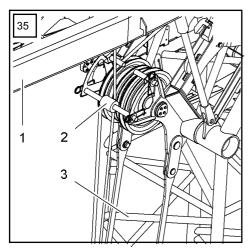
Reeve the jib adjusting rope.

While fitting luffing jib 1309 to the LR1160, the following **reeving diagram** must be used when reeving the jib luffing rope.



Procedure

- Lift A-frame 2 up slightly in order to allow the jib adjusting rope to be reeved.
- Reeve the jib adjusting rope according to the rope reeving system.



Fitting the rope guard tube

If the luffing jib is to be fitted to the LR1160, the rope guard tube must be **fitted** on the gantry pulleys on the main boom head.

- 1 A-frame 2
- 2 Rope guard tube
- 3 Main boom head

7.5 Luffing jib 1309 from LR1160 to LR1100

If luffing jib 1309, originally supplied with an LR1160, is to be fitted to an LR1100, this modification kit must be used.

7.5.1 Prerequisites

Main boom

Jib tensioning rods 18/54/45 must be available for the machine on which the kit is to be fitted.

Option A:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1100 are used.

Option B:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1160 are used.



In option B the "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 1 jib adjusting winch.

■ NOTE!

The jib adjusting winch from the LR1160 can **not** be used.

Jib adjusting rope

The 200 m [656 ft] rope must be wound on the jib adjusting winch.

7.5.2 Product description

The modification kit contains the following components:

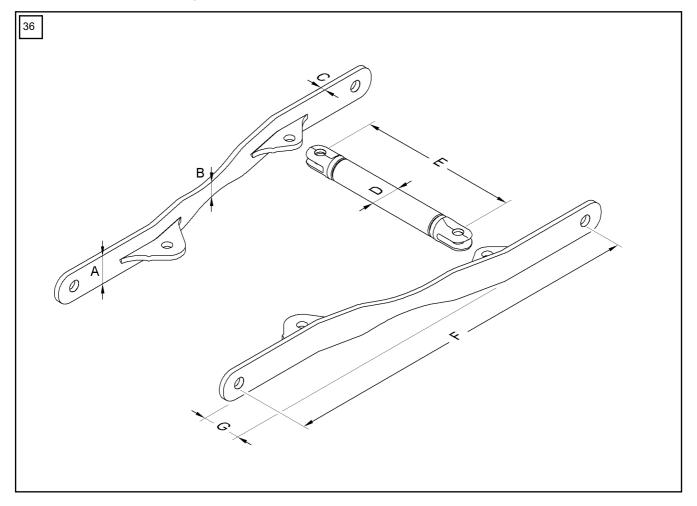
- Crossbar with compression bar
- Limit switch plate
- 3 m [10 ft] tensioning rods

Option A:

- 1x crossbar with compression bar
- 1x limit switch plate
- 1x 3 m [10 ft] tensioning rod

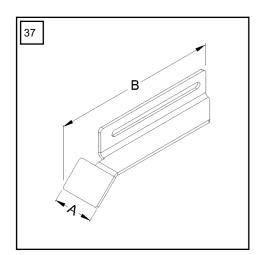
- 1x crossbar with compression bar
- 1x limit switch plate
- 1x 3 m [10 ft] tensioning rod
- "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit

Crossbar with compression bar



- 122 mm [4.8"] Α
- В 64 mm [2.5"]
- 20 mm [0.78"] С
- 89 mm [3.5"]

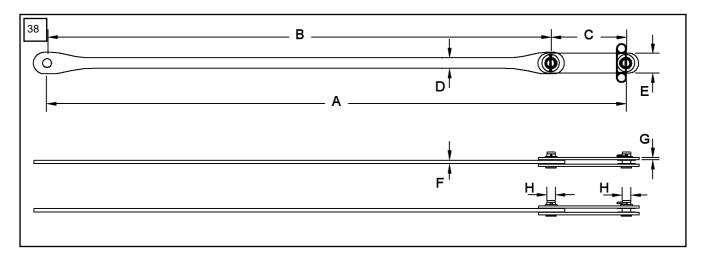
- Ε
- 792 mm [31.2"] 1570 mm [61.8"] F
- 163 mm [6.42"] G



Limit switch plate

- 59 mm [2.32"] Α
- В 233 mm [9.17"]

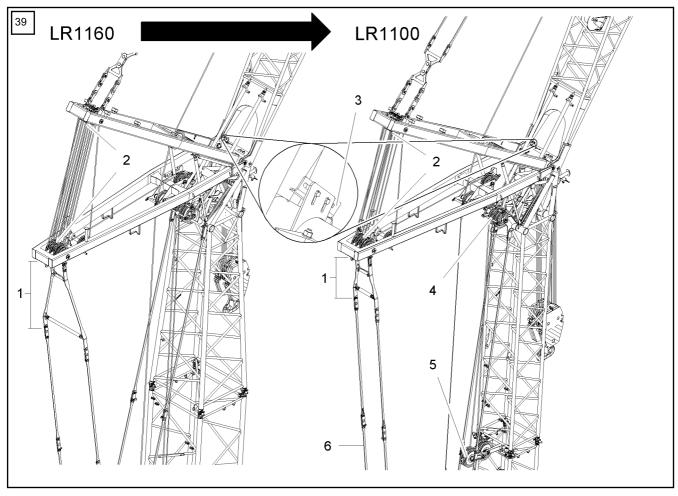
3 m [10 ft] tensioning rods



- **A** 3000 mm [118.11"]
- **B** 2610 mm [102.76"]
- **C** 390 mm [15.3"]
- **D** 54 mm [2.1"]

- **E** 103 mm [4.06"]
- **F** 18 mm [0.7"]
- **G** 12 mm [0.47"]
- **H** Ø 45 mm [1.77"]

7.5.3 Assembly and dismantling



- 1 Crossbar with compression bar and coupling link
- 2 Reeving of jib adjusting rope
- 3 Limit switch plate

- 4 Rope guard tube
- 5 Rope guide
- 6 3 m [10 ft] tensioning rods

If luffing jib 1309, originally supplied with an LR1160, is to be fitted to an LR1100, the following parts are subject to change:

Option A:

- Crossbar (Fig. 39, item 1).
- Reeving of jib adjusting rope (Fig. 39, item 2).
- Limit switch plate (Fig. 39, item 3).
- Rope guard tube (Fig. 39, item 4).
- 3 m [10 ft] tensioning rods (Fig. 39, item 6).

- Crossbar (Fig. 39, item 1).
- Reeving of jib adjusting rope (Fig. 39, item 2).
- Limit switch plate (Fig. 39, item 3).
- Rope guard tube (Fig. 39, item 4).
- 3 m [10 ft] tensioning rods (Fig. 39, item 6).
- Jib tensioning rods from 11.7 m [38 ft] to 12 m [40 ft]

LR_UBS_V003 (gl) LWN - TD7/5/2010

Overview of steps

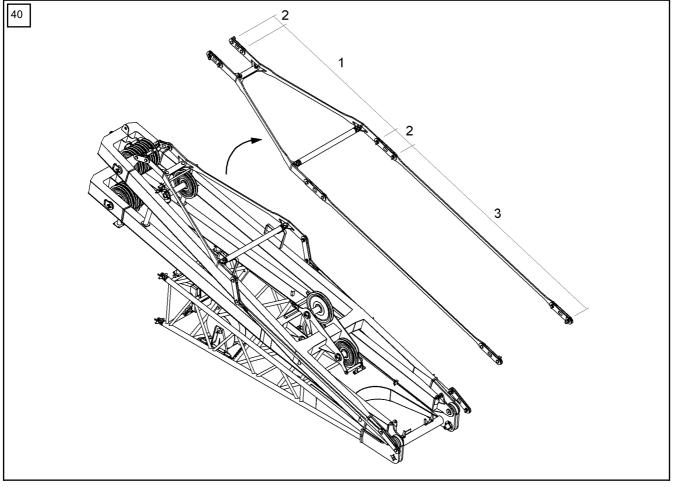
Option A:

- Mount the jib tensioning rods on LR1100.
- Remove crossbar LR1160.
- Assemble crossbar (modification kit).
- Fit 3 m [10 ft] tensioning rods to modification kit.
- Fit crossbar (modification kit) to LR1100.
- Reeve the jib adjusting rope.
- Fit limit switch plate (if required).
- Check rope guard tube.
- Check angle of luffing jib (if necessary).
- Carry out the rest of the assembly as described in the operating manual.

- Replace the coupling links on the jib tensioning rods LR1160 with the "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit.
- Mount the jib tensioning rods on LR1100.
- Remove crossbar LR1160.
- Assemble crossbar (modification kit).
- Fit 3 m [10 ft] tensioning rods to modification kit.
- Fit crossbar (modification kit) to LR1100.
- Reeve the jib adjusting rope.
- Fit limit switch plate (if required).
- Check rope guard tube.
- Check angle of luffing jib (if necessary).
- Carry out the rest of the assembly as described in the operating manual.

Removing the crossbar of the LR1160

The crossbar with compression bar and coupling link (Fig. 40, item 1) must be changed. The coupling links (Fig. 40, item 2) and the tensioning rods (Fig. 40, item 3) are fitted back onto the crossbar of the modification kit.



- 1 Crossbar with compression bar and coupling link
- Coupling links with bolts, plain washers and cotter pins

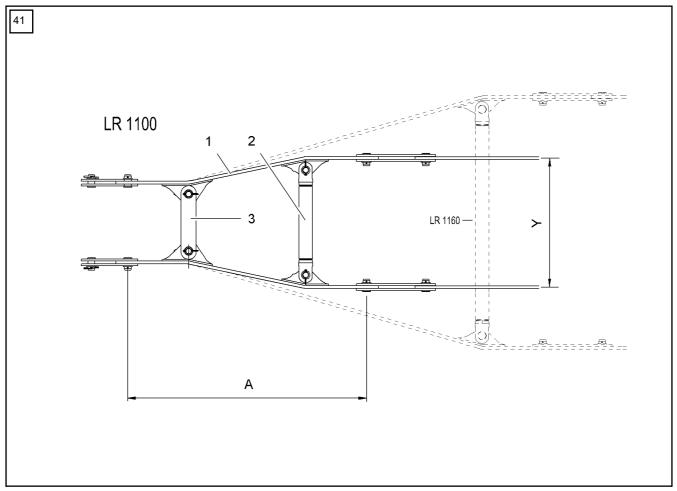
3 Tensioning rods with coupling links

Procedure

- Remove the crossbar of the LR1160 on A-frame 2.
- Remove coupling links with bolts, plain washers and cotter pins.
- Remove the tensioning rods.

Assembling the crossbar (modification kit)

- The solid lines show the components for the LR1100.
- The dotted lines show the components for the LR1160.



- 1 Crossbar
- 2 Pressure bar
- 3 Coupling link

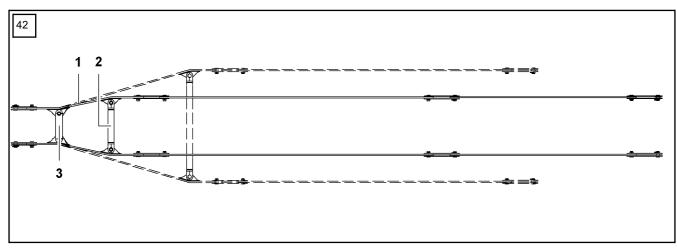
- **A** 1,570 mm [61.8"]
- **Y** 850 mm [33.46"]

The coupling link (Fig. 41 + Fig. 42, item 3) is received by the crossbar of the LR1160, as are the tensioning rods, coupling links, bolts and plain washers for the compression bar (Fig. 41 + Fig. 42, item 2) and the crossbar (Fig. 41 + Fig. 42, item 1).



NOTE!

Cotter pins that have been used once must be replaced with **new** ones.



Procedure

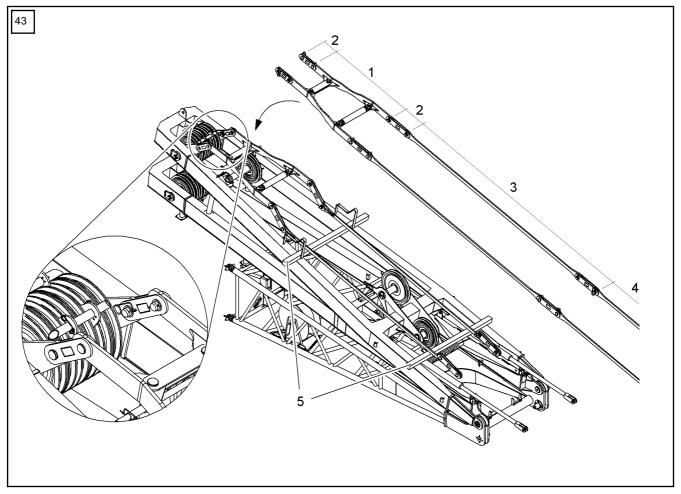
- Disassemble the removed crossbar.
- Assemble new crossbar according to Figure 42.
- Fit all coupling links, bolts and plain washers to the modification kit.
- Fit the tensioning rods to the modification kit.
- Fit 3 m [10 ft] tensioning rods to modification kit.
- Tighten all bolts.

Fitting the crossbar (modification kit) to the LR1100

The preassembled crossbar is fitted to A-frame 2 of the luffing jib.

The 3 m [10 ft] tensioning rods (Fig. 43, item 4) are part of the scope of supply of the modification kit. For transport these are fitted to the main boom head of the LR1100.

In order to provide the tensioning rods (Fig. 43, items 3+4) with a support on A-frame 2, two wooden blocks (Fig. 43, item 5) of 80 x 80 x 1800 mm [3" x 3" x 70"] are used.



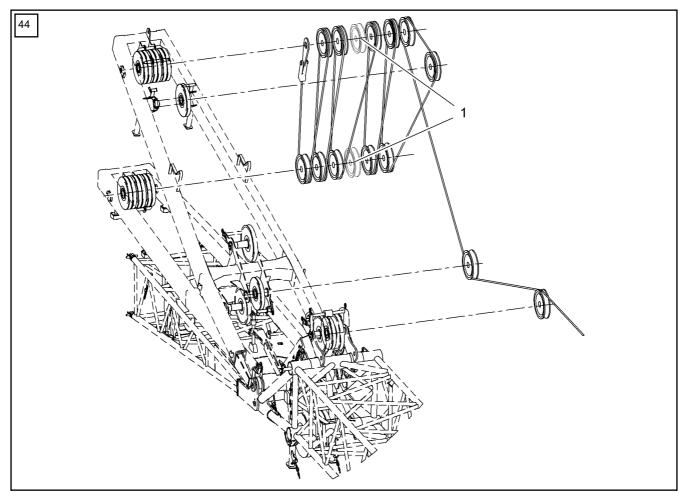
- Crossbar with compression bar and coupling link
- 2 Coupling links with bolts, plain washers and cotter pins
- 3 Tensioning rods with coupling links
- 4 3 m [10 ft] tensioning rods
- 5 Wooden blocks as support

Procedure

- Place wooden blocks on A-frame 2.
- Fit preassembled crossbar with 3 m [10 ft] tensioning rods to A-frame 2.
- Tighten all bolts.

Reeve the jib adjusting rope.

While fitting the luffing jib 1309 to the LR1100, the following **reeving diagram** must be used when reeving the jib luffing rope.



1 Unreeved pulleys

Procedure

- Lift A-frame 2 up slightly in order to allow the jib adjusting rope to be reeved.
- Reeve the jib adjusting rope according to the rope reeving system.

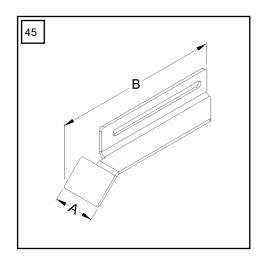
Fitting the limit switch plate

To avoid colliding with the luffing jib when raising the main boom, a limit switch is fitted to the main boom head and a limit switch plate is attached to the jib pivot piece.



Damage to the machine by undercutting the permitted angle between main boom and jib during erection.

Replace the limit switch plate on the luffing jib of the LR1100 and adjust so that it trips when the permitted angle between the main boom and the jib is undercut.





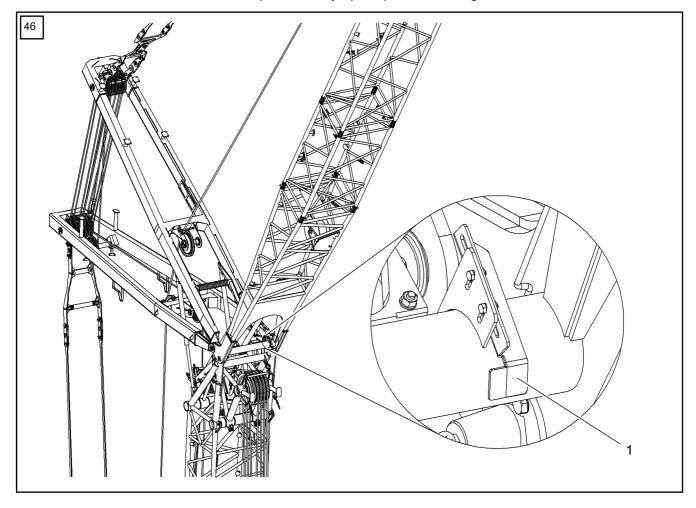
NOTE!

If the limit switch plate illustrated is already attached to the jib pivot piece, ignore the "Fitting the limit switch plate" step and proceed to the chapter entitled "Checking the rope guard tube". Also ignore the "Checking the angle of the luffing jib" step.

A 59 mm [2.32"] **B** 233 mm [9.17"]

Procedure

- Mark the location where the limit switch plate is attached to the jib pivot piece: 2 points on the limit switch plate and 2 points on the mounting.
- Transfer the two points from the limit switch plate to the new limit switch plate.
- Attach the new limit switch plate to the jib pivot piece according to these marks.



1 Newly attached limit switch plate



NOTE!

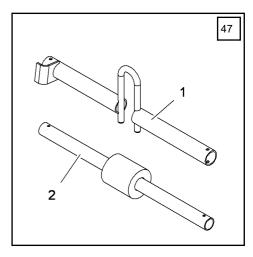
When the limit switch plate is adjusted, the angle between main boom and jib must be reset.

Checking the rope guard tube

These are two types of rope guard tube

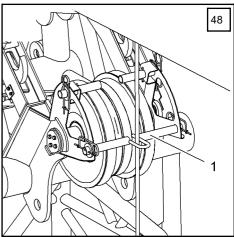
- **1** Type 1
- **2** Type 2

Different procedures are employed depending on the type of rope guard tube.



Rope guard tube type 1

If the depicted rope guard tube (Fig. 48, item 1) is fitted to the gantry pulleys on the main boom head of the LR1100, it must **not be removed** on the gantry pulleys on the main boom head.



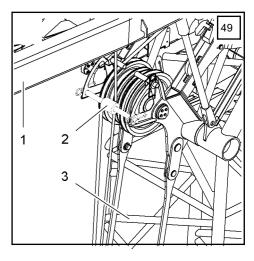
Rope guard tube type 2

If the depicted rope guard tube (Fig. 49, item 2) is fitted to the gantry pulleys on the main boom head of the LR1100, it must **be removed** on the gantry pulleys on the main boom head.

- 1 A-frame 2
- 2 Rope guard tube
- 3 Main boom head

Procedure

- Remove rope guard tube



Checking the angle of the luffing jib



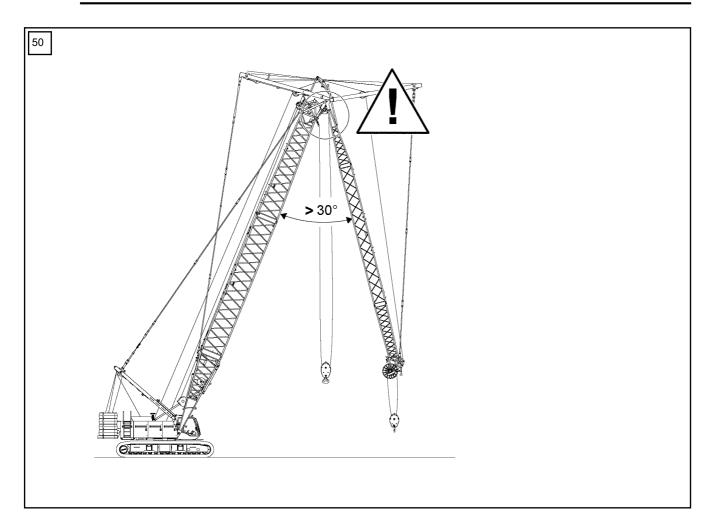
NOTE!

When the limit switch plate is adjusted, the angle between main boom and jib must be reset.

The crane is assembled with a short main boom and a short jib.



Damage to machine if permitted angle is undercut When lifting, ensure than the angle is never less than 30°.



Procedure

- Assemble machine with short main boom and short jib.
- Raise machine as shown in Figure 50 . Monitor angle between main boom and jib.
- Using a lifting platform, go up to the main boom head and measure the angle of the main boom in relation to the jib using a protractor.
- Set the angle by carefully adjusting the jib.
- After achieving the desired position, set the limit switch plate to this position. This ensures that the angle is never undercut.

If luffing jib 1309, originally supplied with an LR1160, is to be fitted to an LR1130, this modification kit must be used.

7.6.1 Prerequisites

Main boom

Jib tensioning rods 18/54/45 must be available for the machine on which the kit is to be fitted.

Option A:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1130 are used.

Option B:

Jib tensioning rods 18/54/45 for luffing jib 1309 supplied with an LR1160 are used.



In option B the "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.

NOTE!

The jib adjusting winch from the LR1160 can be used.

7.6.2 Product description

The modification kit contains the following components:

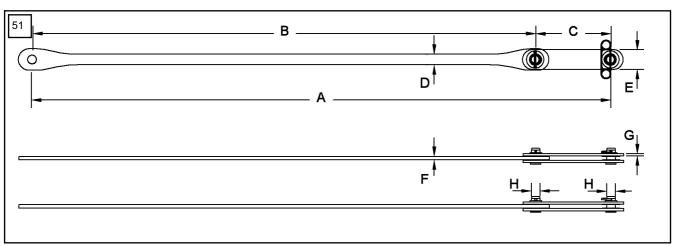
- 3 m [10 ft] tensioning rods

Option A:

- 3 m [10 ft] tensioning rods

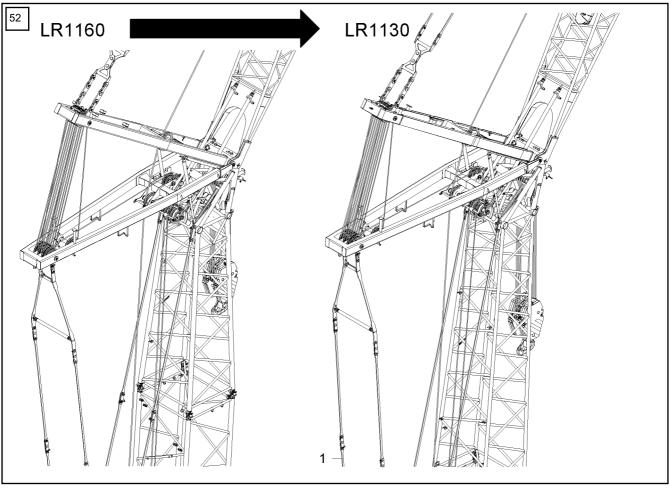
- 3 m [10 ft] tensioning rods
- "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit

3 m [10 ft] tensioning rods



- **A** 3000 mm [118.11"]
- **B** 2610 mm [102.76"]
- **C** 390 mm [15.3"]
- **D** 54 mm [2.1"]

- **E** 103 mm [4.06"]
- **F** 18 mm [0.7"]
- **G** 12 mm [0.47"]
- **H** Ø 45 mm [1.77"]



1 3 m [10 ft] tensioning rods

If luffing jib 1309, originally supplied with an LR1160, is to be fitted to an LR1130, the following parts are subject to change:

Option A:

- 3 m [10 ft] tensioning rods (Fig. 52, item 1).
- Rope guard tube

- 3 m [10 ft] tensioning rods (Fig. 52, item 1).
- Rope guard tube
- Jib tensioning rods from 11.7 m [38 ft] to 12 m [40 ft]

7. LUFFING JIB 1309



NOTE!

Cotter pins that have been used once must be replaced with new ones.

Overview of steps

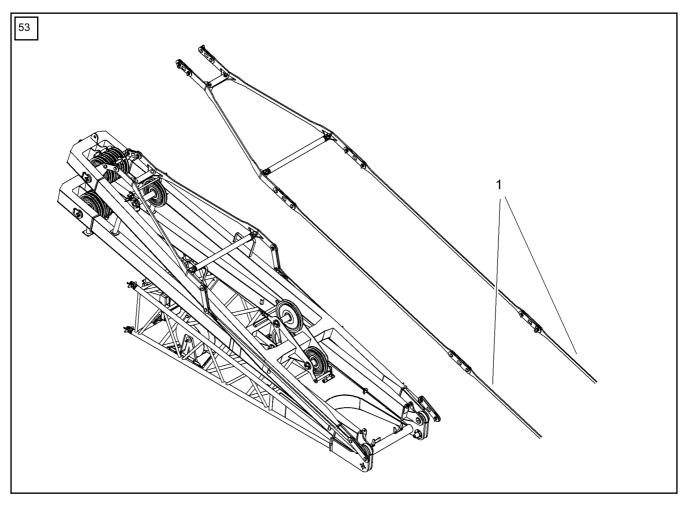
Option A:

- Mount the jib tensioning rods on LR1130.
- Fit 3m tensioning rods to LR1130.
- Reeve the jib adjusting rope.
- Fit the rope guard tube.
- Carry out the rest of the assembly as described in the operating manual.

- Replace the coupling links on the jib tensioning rods LR1160 with the "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit.
- Mount the jib tensioning rods on LR1130.
- Fit 3m tensioning rods to LR1130.
- Reeve the jib adjusting rope.
- Fit the rope guard tube.
- Carry out the rest of the assembly as described in the operating manual.

Fitting 3 m [10 ft] tensioning rods to the LR1130

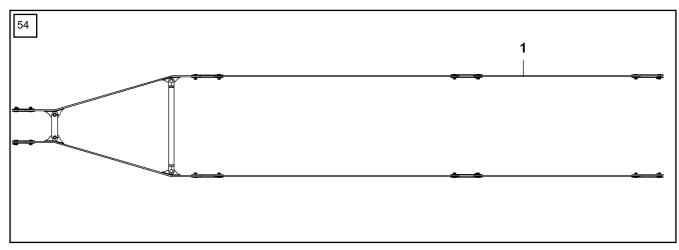
The 3 m [10 ft] tensioning rods (Fig. 53 + Fig. 54, item 1) must be **fitted** on the crossbar of the LR1130.



1 3 m [10 ft] tensioning rods

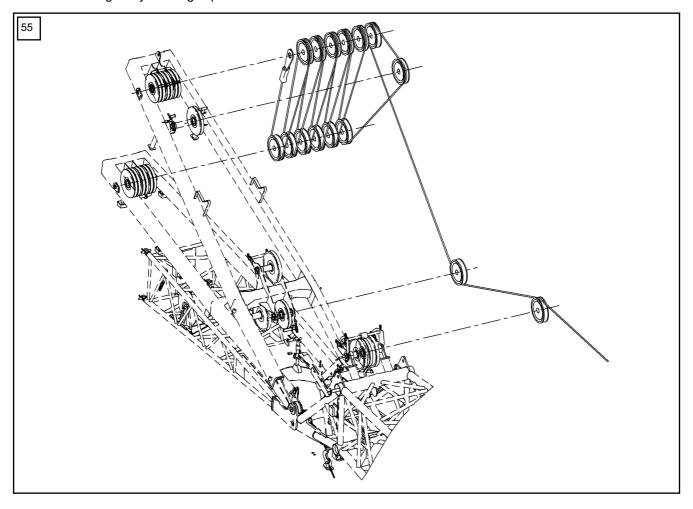
Procedure

- Fit the 3 m [10 ft] tensioning rods.



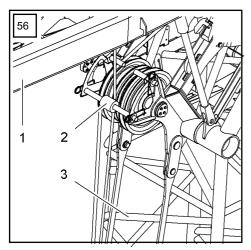
Reeve the jib adjusting rope.

While fitting luffing jib 1309 to the LR1160, the following **reeving diagram** must be used when reeving the jib luffing rope.



Procedure

- Lift A-frame 2 up slightly in order to allow the jib adjusting rope to be reeved.
- Reeve the jib adjusting rope according to the rope reeving system.



Fitting the rope guard tube

If the luffing jib is to be fitted to the LR1160, the rope guard tube must be **fitted** on the gantry pulleys on the main boom head.

- 1 A-frame 2
- 2 Rope guard tube
- 3 Main boom head

8. **LUFFING JIB 1713**

8.1 Luffing jib 1713 from LR1160 to LR1200

If luffing jib 1713, originally supplied with an LR1160, is to be fitted to an LR1200/LR1200SX, this modification kit must be used.

8.1.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 22/62/50 for luffing jib 1713 supplied with an LR1200/LR1200SX are used.

Option B:

Jib tensioning rods 18/54/45 for luffing jib 1713 supplied with an LR1160 are used.

NOTE!

In option B the "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.

NOTE!

The jib adjusting winch from the LR1160 can be used.

8.1.2 Product description

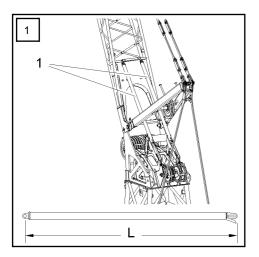
The modification kit contains the following components:

- 2x tilting-back supports
- 1x "Coupling link diameter" modification kit" (coupling link 45/50)

Option A:

- 2x tilting-back supports
- 1x "Coupling link diameter" modification kit
 This modification kit was supplied with the LR1200/LR1200SX.

- 2x tilting-back supports
- 1x "Coupling link diameter" modification kit
- "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit

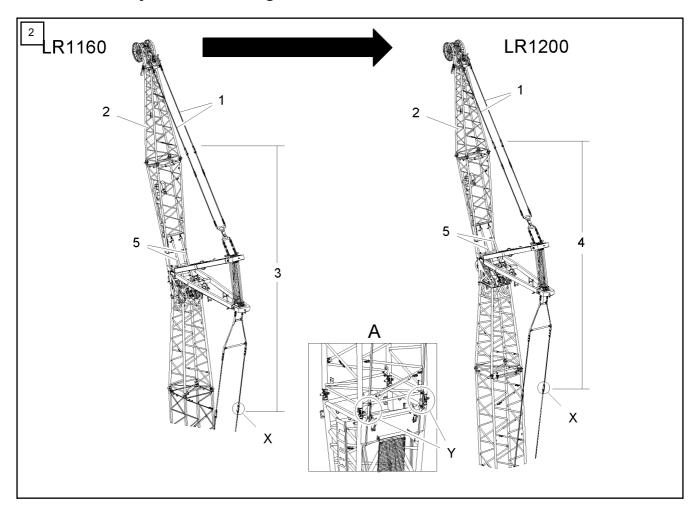


Tilting-back supports

- 1
- Tilting-back supports
 Total length = 3160 mm [124"]

Diameter of tilting-back supports = 101 mm [3.98"]

8.1.3 Assembly and dismantling



- 1 Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1160
- A Detail A

- 4 Jib add-on parts LR1200/LR1200SX
- 5 Tilting-back supports
- X Coupling links, basic rope A-frame 2
- Y Coupling links for pivot piece

Detail A

Detail A shows the main boom pivot piece with the pivot points and jib tensioning rods bolted in place.

If luffing jib 1713, originally supplied with an LR1160, is to be fitted to an LR1200/LR1200SX, the following parts are subject to change:

Option A:

- Tilting-back supports (Fig. 2, item 5).
- Coupling links, basic rope A-frame 2 (Fig. 2, item X)

- Tilting-back supports (Fig. 2, item 5).
- Coupling links on the pivot points on the main boom pivot piece (Fig. 2, item Y)
- Jib tensioning rods from 11.7 m [38 ft] to 12 m [40 ft]

8. LUFFING JIB 1713



NOTE!

Cotter pins that have been used once must be replaced with new ones.

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

Overview of steps

Option A:

- Remove tilting-back supports in jib add-on parts LR1160.
- Fit tilting-back supports in jib add-on parts.
- Mount the jib tensioning rods on LR1200/LR1200SX.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove jib add-on parts on the LR1160
- Fit the jib add-on parts on LR1200/LR1200SX.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

- Replace the coupling links on the jib tensioning rods LR1160 with the "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit.
- Mount the jib tensioning rods on LR1200/LR1200SX.
- Remove tilting-back supports in jib add-on parts LR1160.
- Fit tilting-back supports in jib add-on parts.
- Remove the coupling links on the pivot points on the main boom pivot piece.
- Fit the "Coupling link diameter" modification kit to the pivot piece.
- Remove jib add-on parts on the LR1160
- Fit the jib add-on parts on LR1200/LR1200SX.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

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8.2

If luffing jib 1713, originally supplied with an LR1160, is to be fitted to an LR1280, this modification kit must be used.

8.2.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 22/62/50 for luffing jib 1713 supplied with an LR1280 are used.

Option B:

Jib tensioning rods 18/54/45 for luffing jib 1713 supplied with an LR1160 are used.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.



NOTE!

The jib adjusting winch from the LR1160 can be used.

Luffing jib 1713 from LR1160 to LR1280

8.2.2 Product description

The modification kit contains the following components:

- 2x tilting-back supports
- 1x "Coupling link diameter" modification kit" (coupling link 45/50)

Option A:

- 2x tilting-back supports
- 1x "Coupling link diameter" modification kit
 This modification kit was supplied with the LR1280.

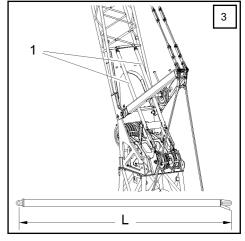
Option B:

- 2x tilting-back supports
- 1x "Coupling link diameter" modification kit

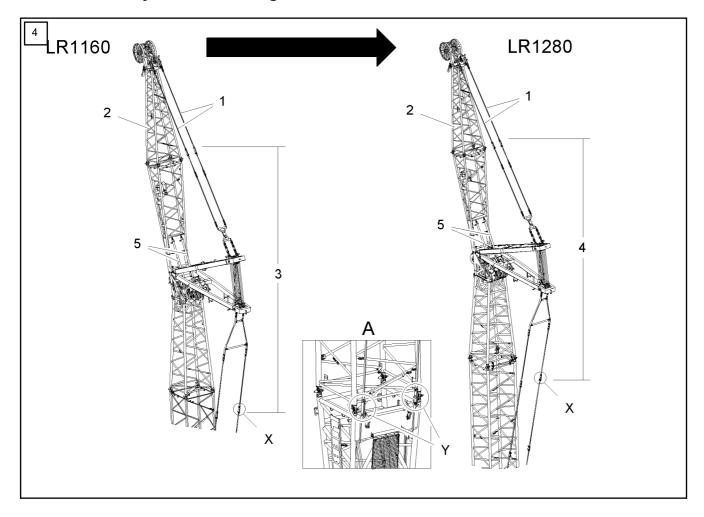
Tilting-back supports

- 1 Tilting-back supports
- **L** Total length = 3160 mm [124"]

Diameter of tilting-back supports = 101 mm [3.98"]



8.2.3 Assembly and dismantling



- 1 Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1160
- A Detail A

- 4 Jib add-on parts LR1280
- 5 Tilting-back supports
- X Coupling links, basic rope A-frame 2
- Y Coupling links for pivot piece

Detail A

Detail A shows the main boom pivot piece with the pivot points and jib tensioning rods bolted in place.

If luffing jib 1713, originally supplied with an LR1160, is to be fitted to an LR1280, the following parts are subject to change:

Option A:

- Tilting-back supports (Fig. 4, item 5).
- Coupling links, basic rope A-frame 2 (Fig. 4, item X)

- Tilting-back supports (Fig. 4, item 5).
- Coupling links on the pivot points on the main boom pivot piece (Fig. 4, item Y)
- Connecting links on the A-frame 2 equalizer (Fig. 4, item X).



NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

IMPORTANT!

For assembly and dismantling:

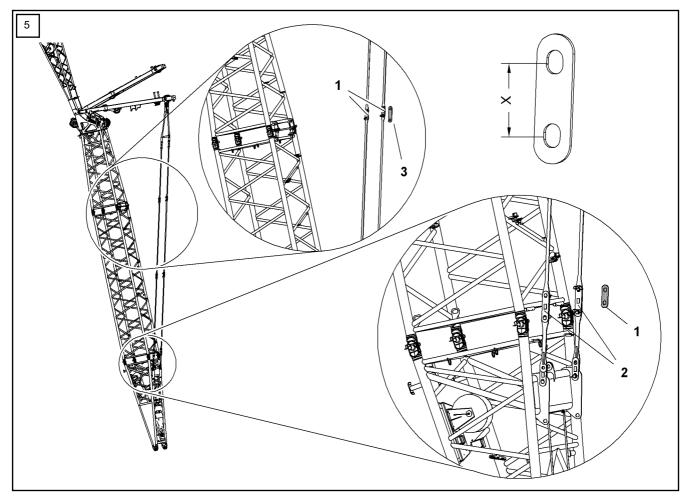
Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

Overview of steps

Option A:

- Remove tilting-back supports in jib add-on parts LR1160.
- Fit tilting-back supports in jib add-on parts.
- Mount the jib tensioning rods on LR1280.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove jib add-on parts on the LR1160
- Fit the jib add-on parts on the LR1280.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

- Remove tilting-back supports in jib add-on parts LR1160.
- Fit tilting-back supports in jib add-on parts.
- Mount the jib tensioning rods on LR1280.
- Remove the coupling links on the pivot points on the main boom pivot piece.
- Fit the "Coupling link diameter" modification kit to the pivot piece.
- Replace the removed connecting links on the A-frame 2 equalizer (see Fig. 5).
- Remove jib add-on parts on the LR1160
- Fit the jib add-on parts on the LR1280.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.



- 1 4x connecting links 240
- 2 Connecting link diameter conversion kit
- **3** 4x connecting links 390
- X Pin distance

Example: With the 240 connecting links the pin distance X is 240 mm [9.45"].

The 240 connecting links (Fig. 5, item 1) are the connecting links on the backstay straps for the first section.

- ▶ Remove 240 connecting links (Fig. 5, item 1) from the base section.
- ▶ Install the connecting link diameter conversion kit (Fig. 5, item 2).
- ▶ Remove 390 connecting links from A-frame 2 equalizer (Fig. 5, item 3).
- ▶ Install 240 connecting links (Fig. 5, item 1) from the base section on A-frame 2 equalizer (Fig. 5, item 3).

The 390 connecting links on A-frame 2 equalizer are not needed.

8.3 Luffing jib 1713 from LR1200 to LR1160

If luffing jib 1713, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1160, this modification kit must be used.

8.3.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 18/54/45 for luffing jib 1713 supplied with an LR1160 are used.

Option B:

Jib tensioning rods 22/62/50 for luffing jib 1713 supplied with an LR1200/LR1200SX are used.



In option B the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.

NOTE!

The jib adjusting winch from the LR1200/LR1200SX can be used.

8.3.2 Product description

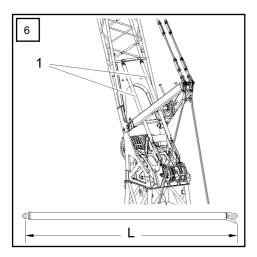
The modification kit contains the following components:

- 2x tilting-back supports
- 1x "Coupling link diameter" modification kit" (coupling link 45/50)

Option A:

- 2x tilting-back supports

- 2x tilting-back supports
- 2x "Coupling link diameter" modification kit
 1x modification kit was supplied with the LR1200/LR1200SX.
- "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit

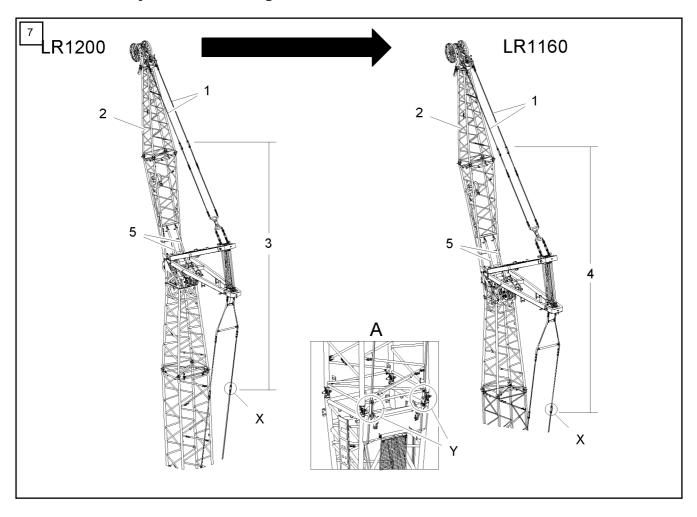


8.3.3 **Tilting-back supports**

- 1
- Tilting-back supports
 Total length = 3388 mm [133"] L

Diameter of tilting-back supports = 101 mm [3.98"]

8.3.4 Assembly and dismantling



- 1 Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1200/LR1200SX
- A Detail A

- 4 Jib add-on parts LR1160
- 5 Tilting-back supports
- X Coupling links, basic rope A-frame 2
- Y Coupling links for pivot piece

Detail A

Detail A shows the main boom pivot piece with the pivot points and jib tensioning rods bolted in place.

If luffing jib 1713, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1160, the following parts are subject to change:

Option A:

- Tilting-back supports (Fig. 7, item 5).

- Tilting-back supports (Fig. 7, item 5).
- Coupling links, basic rope A-frame 2 (Fig. 7, item X)
- Coupling links on the pivot points on the main boom pivot piece (Fig. 7, item Y)
- Jib tensioning rods from 12 m [40 ft] to 11.7 m [38 ft]

8. LUFFING JIB 1713



NOTE!

Cotter pins that have been used once must be replaced with new ones.

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

Overview of steps

Option A:

- Remove tilting-back supports on the jib add-on parts on the LR1200/LR1200SX.
- Fit tilting-back supports on the jib add-on parts.
- Mount the jib tensioning rods on LR1160.
- Remove the jib add-on parts on the LR1200/LR1200SX.
- Fit jib add-on parts on the LR1160.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

- Replace the coupling links on jib tensioning rods LR200/LR1200SX with the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit.
- Mount the jib tensioning rods on LR1160.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove the coupling links on the pivot points on the main boom pivot piece.
- Fit the "Coupling link diameter" modification kit to the pivot piece.
- Remove tilting-back supports on jib add-on parts LR1200/LR1200SX.
- Fit tilting-back supports on the jib add-on parts.
- Remove jib add-on parts on the LR1200/LR1200SX.
- Fit jib add-on parts on the LR1160.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

8.4 Luffing jib 1713 from LR1200 to LR1280

If luffing jib 1713, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1280, this modification kit must be used.

8.4.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 22/62/50 for luffing jib 1713 supplied with an LR1280 are used.

Option B:

Jib tensioning rods 22/62/50 for luffing jib 1713 supplied with the LR1200/LR1200SX are used.



In option B the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.

NOTE!

The jib adjusting winch from the LR1200/LR1200SX can be used.

8.4.2 Product description

The modification kit contains the following components:

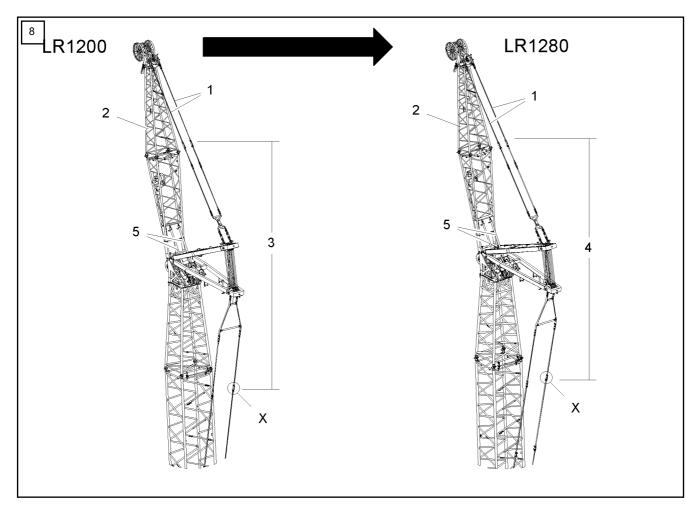
- "Coupling link diameter" modification kit (coupling link 45/50)

Option A:

1x "Coupling link diameter" modification kit
 This modification kit was supplied with the LR1280.

- 1x "Coupling link diameter" modification kit
 This modification kit was supplied with the LR1200/LR1200SX.
- "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit

8.4.3 Assembly and dismantling



- 1 Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1200/LR1200SX
- 4 Jib add-on parts LR1280
- 5 Tilting-back supports
- X Coupling links, basic rope A-frame 2

If luffing jib 1713, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1280, the following parts are subject to change:

Option A:

- Coupling links, basic rope A-frame 2 (Fig. 8, item X)

- Coupling links, basic rope A-frame 2 (Fig. 8, item X)
- Jib tensioning rods from 12 m [40 ft] to 11.7 m [38 ft]



NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

Overview of steps

Option A:

- Mount the jib tensioning rods on LR1280.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove the jib add-on parts on the LR1200/LR1200SX.
- Fit the jib add-on parts on the LR1280.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

- Replace the coupling links on jib tensioning rods LR1200/LR1200SX with the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit.
- Mount the jib tensioning rods on the LR1280.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove the jib add-on parts on the LR1200/LR1200SX.
- Fit the jib add-on parts on the LR1280.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

8.5 Luffing jib 1713 from LR1280 to LR1160

If luffing jib 1713, originally supplied with an LR1280, is to be fitted to an LR1160, this modification kit must be used.

8.5.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 18/54/45 for luffing jib 1713 supplied with an LR1160 are used.

Option B:

Jib tensioning rods 22/62/50 for luffing jib 1713 supplied with the LR1280 are used.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.



NOTE!

The jib adjusting winch from the LR1280 can be used.

8.5.2 Product description

The modification kit contains the following components:

- 2x tilting-back supports
- 1x "Coupling link diameter" modification kit" (coupling link 45/50)

Option A:

- 2x tilting-back supports

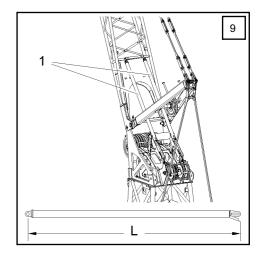
- 2x tilting-back supports
- 2x "Coupling link diameter" modification kit
 1x modification kit was supplied with the LR1280

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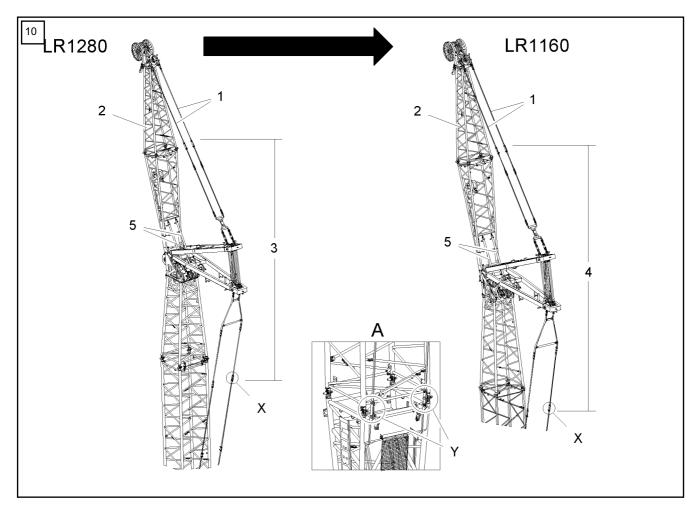
Tilting-back supports

- Tilting-back supports Total length = 3388 mm [133"]

Diameter of tilting-back supports = 101 mm [3.98"]



8.5.3 Assembly and dismantling



- 1 Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1280
- A Detail A

- 4 Jib add-on parts LR1160
- 5 Tilting-back supports
- X Coupling links, basic rope A-frame 2
- Y Coupling links for pivot piece

Detail A

Detail A shows the main boom pivot piece with the pivot points and jib tensioning rods bolted in place.

If luffing jib 1713, originally supplied with an LR1280, is to be fitted to an LR1160, the following parts are subject to change:

Option A:

- Tilting-back supports (Fig. 10, item 5).

- Tilting-back supports (Fig. 10, item 5).
- Coupling links, basic rope A-frame 2 (Fig. 10, item X)
- Coupling links on the pivot points on the main boom pivot piece (Fig. 10, item Y)



NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

Overview of steps

Option A:

- Remove tilting-back supports on jib add-on parts on the LR1280.
- Fit tilting-back supports in jib add-on parts.
- Mount the jib tensioning rods on LR1160.
- Remove jib add-on parts on the LR1280.
- Fit jib add-on parts on the LR1160.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

- Remove tilting-back supports on jib add-on parts on the LR1280.
- Fit tilting-back supports in jib add-on parts.
- Mount the jib tensioning rods on LR1160.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove the coupling links on the pivot points on the main boom pivot piece.
- Fit the "Coupling link diameter" modification kit to the pivot piece.
- Remove jib add-on parts on the LR1280.
- Fit jib add-on parts on the LR1160.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

8.6 Luffing jib 1713 from LR1280 to LR1200

If luffing jib 1713, originally supplied with an LR1280, is to be fitted to an LR1200/LR1200SX, this modification kit must be used.

8.6.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 22/62/50 for luffing jib 1713 supplied with an LR1200/LR1200SX are used.

Option B:

Jib tensioning rods 22/62/50 for luffing jib 1713 supplied with an LR1280 are used.



In option B the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.

NOTE!

The jib adjusting winch from the LR1280 can be used.

8.6.2 Product description

The modification kit contains the following components:

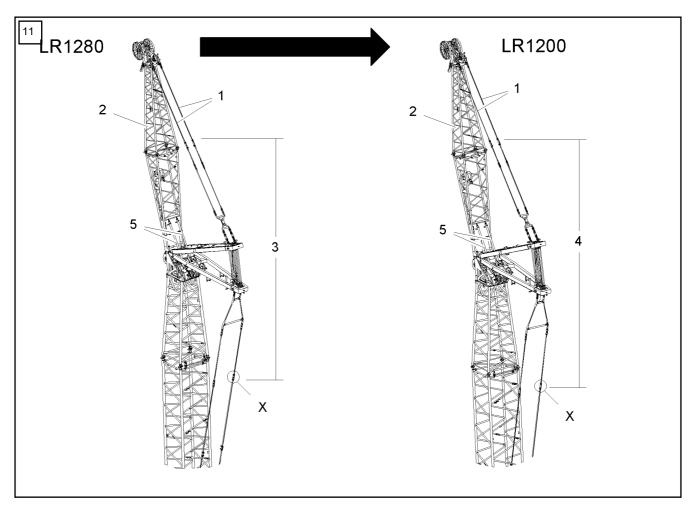
- no parts to be fitted

Option A:

1x "Coupling link diameter" modification kit
 This modification kit was supplied with the LR1200/LR1200SX.

- 1x "Coupling link diameter" modification kit
 This modification kit was supplied with the LR1280
- "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit

8.6.3 Assembly and dismantling



- 1 Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1280

- 4 Jib add-on parts LR1200/LR1200SX
- 5 Tilting-back supports
- X Coupling links, basic rope A-frame 2

If luffing jib 1713, originally supplied with an LR1280, is to be fitted to an LR1200/LR1200SX, the following parts are subject to change:

Option A:

- Coupling links, basic rope A-frame 2

- Coupling links, basic rope A-frame 2
- Jib tensioning rods from 11.7 m [38 ft] to 12 m [40 ft]

8. LUFFING JIB 1713



NOTE!

Cotter pins that have been used once must be replaced with new ones.

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

Overview of steps

Option A:

- Mount the jib tensioning rods on LR1200/LR1200SX.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove jib add-on parts on the LR1280.
- Fit the jib add-on parts on LR1200/LR1200SX.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

- Replace the coupling links on jib tensioning rods LR1280 with the "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit.
- Mount the jib tensioning rods on LR1200/LR1200SX.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove jib add-on parts on the LR1280.
- Fit the jib add-on parts on LR1200/LR1200SX.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

8.7 Fixed jib 1713 from LR1300 to luffing jib on LR1160

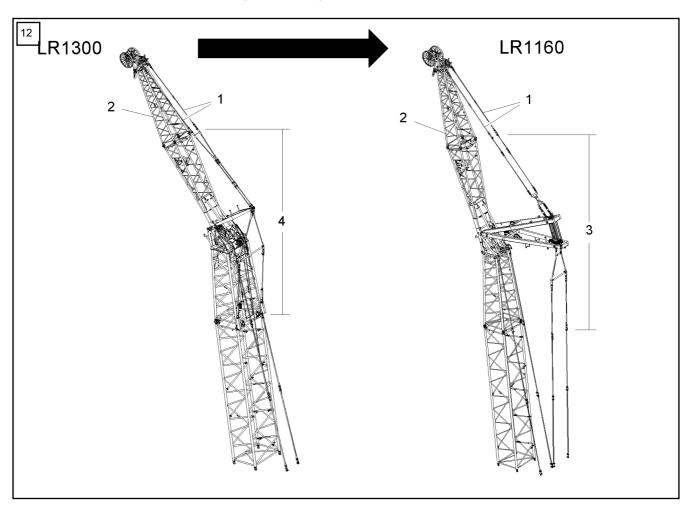
If fixed jib 1713, originally supplied with an LR1300, is to be fitted to an LR1160 as a luffing jib, the following parts may be used.

Sections 1713

- 3 m [10 ft] with pendant straps
- 6 m [20 ft] with pendant straps
- 12 m [40 ft] with pendant straps

and

- Jib head 1713 with pendant straps



- 1 Jib pendant straps
- 3 Jib add-on parts LR1160

- 2 Jib head 1713
- 4 Jib add-on parts LR1300

If fixed jib 1713, originally supplied with an LR1300, is to be fitted to an LR1160 as a luffing jib, the following parts are subject to change:

- Jib add-on parts LR1160 (Fig. 12, item 3) including A-frames, jib pivot piece and pendant straps with basic rope.

Assembly and dismantling are described in the operating manual for the basic machine.

8.8 Luffing jib 1713 from LR1160 to fixed jib on LR1300

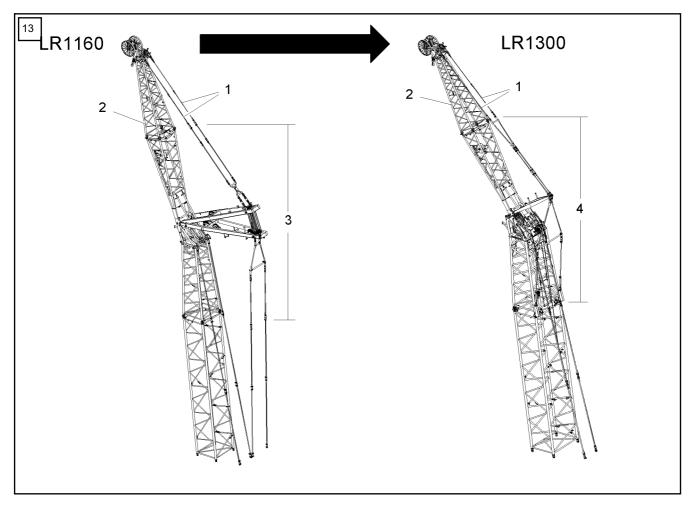
If luffing jib 1713, originally supplied with an LR1160, is to be fitted to an LR1300 as a fixed jib, the following parts may be used.

Sections 1713

- 3 m [10 ft] with pendant straps
- 6 m [20 ft] with pendant straps
- 12 m [40 ft] with pendant straps

and

- Jib head 1713 with pendant straps



- 1 Jib pendant straps
- 3 Jib add-on parts LR1160

- **2** Jib head 1713
- 4 Jib add-on parts LR1300

If luffing jib 1713, originally supplied with an LR1160, is to be fitted to an LR1300 as a fixed jib, the following parts are subject to change:

- Jib add-on parts LR1300 (Fig. 13, item 4) including A-frames, jib pivot piece and pendant straps with basic rope.

Assembly and dismantling are described in the operating manual for the basic machine.

9. **LUFFING JIB 1916**

9.1 Luffing jib 1916 from LR1200 to LR1280

If luffing jib 1916, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1280, this modification kit must be used.

9.1.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 22/62/50 for luffing jib 1916 supplied with an LR1280 are used.

Option B:

Jib tensioning rods 22/62/50 for luffing jib 1916 supplied with an LR1200/LR1200SX are used.



In option B the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.



The jib adjusting winch from the LR1200/LR1200SX can be used.

9.1.2 Product description

The modification kit contains the following components:

- no parts to be fitted

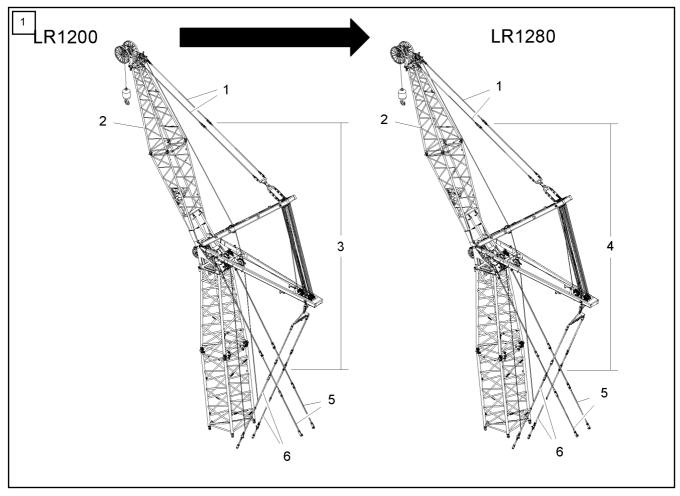
Option A:

- No modification kit required

Option B:

- "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit

9.1.3 Assembly and dismantling



- Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1200/LR1200SX
- Jib add-on parts LR1280
- 5 Main boom pendant straps
- Jib tensioning rods

If luffing jib 1916, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1280, the following parts are subject to change:

For option A:

- no change

For option B:

- Jib tensioning rods from 12 m [40 ft] to 11.7 m [38 ft]



NOTE!

Cotter pins that have been used once must be replaced with new ones.



IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

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Overview of steps

Option A:

- Mount the jib tensioning rods on LR1280.
- Remove the jib add-on parts on the LR1200/LR1200SX.
- Fit the jib add-on parts on the LR1280.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

- Replace the coupling links on jib tensioning rods LR1200/LR1200SX with the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit.
- Mount the jib tensioning rods on LR1280.
- Remove the jib add-on parts on the LR1200/LR1200SX.
- Fit the jib add-on parts on the LR1280.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

9.2 Luffing jib 1916 from LR1200 to LR1300

If luffing jib 1916, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1300, this modification kit must be used.

9.2.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 22/66/55 for luffing jib 1916 supplied with an LR1300 are used.

Option B:

Jib tensioning rods 22/62/50 for luffing jib 1916 supplied with an LR1200/LR1200SX are used.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.



NOTE!

The jib adjusting winch from the LR1200/LR1200SX can be used.

9.2.2 Product description

The modification kit contains the following components:

- 1x "Coupling link diameter" modification kit" (coupling link 50/55)

Option A:

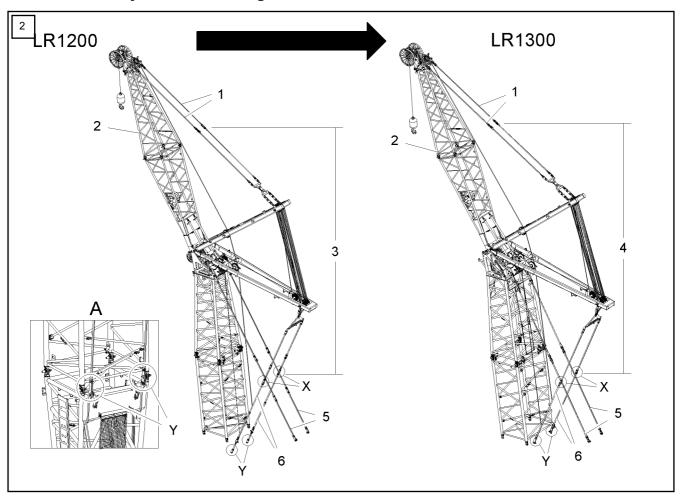
1x "Coupling link diameter" modification kit
 This modification kit was supplied with the LR1300.

Option B:

- 1x "Coupling link diameter" modification kit

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9.2.3 Assembly and dismantling



- 1 Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1200/LR1200SX
- 4 Jib add-on parts LR1300
- A Detail A

- 5 Main boom pendant straps
- 6 Jib tensioning rods
- X Coupling links, basic rope A-frame 2
- Y Coupling links for pivot piece

Detail A

Detail A shows the main boom pivot piece with the pivot points and jib tensioning rods bolted in place.

If luffing jib 1916, originally supplied with an LR1200/LR1200SX, is to be fitted to an LR1300, the following parts are subject to change:

Option A:

- Coupling links, basic rope A-frame 2 (Fig. 2, item X)

Option B:

- Coupling links on the pivot points on the main boom pivot piece (Fig. 2, item Y)

9. LUFFING JIB 1916 ==



NOTE!

Cotter pins that have been used once must be replaced with new ones.

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

Overview of steps

Option A:

- Mount the jib tensioning rods on main boom LR1300.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove the jib add-on parts on the LR1200/LR1200SX.
- Fit the jib add-on parts on the LR1300.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

- Mount the jib tensioning rods on LR1300.
- Remove the coupling links on the pivot points on the main boom pivot piece.
- Fit the "Coupling link diameter" modification kit to the pivot piece.
- Remove tilting-back supports on jib add-on parts for the LR1200/LR1200SX.
- Fit tilting-back supports in jib add-on parts.
- Remove the jib add-on parts on LR1200/LR1200SX.
- Fit the jib add-on parts on the LR1300.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

9.3 Luffing jib 1916 from LR1280 to LR1200

If luffing jib 1916, originally supplied with an LR1280, is to be fitted to an LR1200/LR1200SX, this modification kit must be used.

9.3.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 22/62/50 for luffing jib 1916 supplied with an LR1200/LR1200SX are used.

Option B:

Jib tensioning rods 22/62/50 for luffing jib 1916 supplied with an LR1280 are used.



In option B the "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.

♠ NOTE!

The jib adjusting winch from the LR1200/LR1200SX can be used.

9.3.2 Product description

The modification kit contains the following components:

- no parts to be fitted

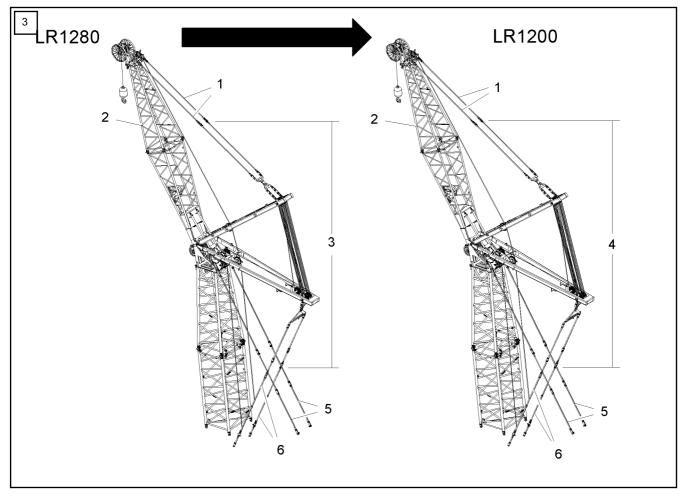
Option A:

- No modification kit required

Option B:

- 1x "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit

Assembly and dismantling 9.3.3



- 1 Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1280

- 4 Jib add-on parts LR1200
- 5 Main boom pendant straps
- 6 Jib tensioning rods

If luffing jib 1916, originally supplied with an LR1280, is to be fitted to an LR1200/LR1200SX, the following parts are subject to change:

Option A:

- no change

Option B:

- Jib tensioning rods from 11.7 m [38 ft] to 12 m [40 ft]



NOTE!

Cotter pins that have been used once must be replaced with new ones.



IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

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Overview of steps

Option A:

- Mount the jib tensioning rods on LR1200/LR1200SX.
- Remove jib add-on parts on the LR1280.
- Fit the jib add-on parts on LR1200/LR1200SX.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

- Replace the coupling links on jib tensioning rods LR1280 with the "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit.
- Mount the jib tensioning rods on LR1200/LR1200SX.
- Remove jib add-on parts on the LR1280.
- Fit the jib add-on parts on LR1200/LR1200SX.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

9.4 Luffing jib 1916 from LR1280 to LR1300

If luffing jib 1916, originally supplied with an LR1280, is to be fitted to an LR1300, this modification kit must be used.

9.4.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 22/66/55 for luffing jib 1916 supplied with an LR1300 are used.

Option B:

Jib tensioning rods 22/62/50 for luffing jib 1916 supplied with an LR1280 are used.

NOTE!

In option B the "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.

NOTE!

The jib adjusting winch from the LR1280 can be used.

9.4.2 Product description

The modification kit contains the following components:

- 1x "Coupling link diameter" modification kit" (coupling link 50/55)

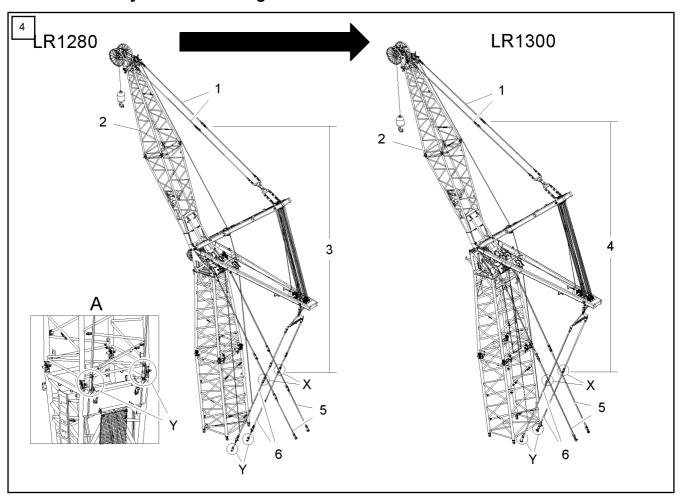
Option A:

1x "Coupling link diameter" modification kit
 This modification kit was supplied with the LR1300

- 1x "Coupling link diameter" modification kit
- 1x "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit

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9.4.3 Assembly and dismantling



- 1 Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1280
- 4 Jib add-on parts LR1300
- A Detail A

- 5 Main boom pendant straps
- 6 Jib tensioning rods
- X Coupling links, basic rope A-frame 2
- Y Coupling links for pivot piece

Detail A

Detail A shows the main boom pivot piece with the pivot points and jib tensioning rods bolted in place.

If luffing jib 1916, originally supplied with an LR1280, is to be fitted to an LR1300, the following parts are subject to change:

Option A:

- Coupling links, basic rope A-frame 2 (Fig. 4, item X)

- Coupling links on the pivot points on the main boom pivot piece (Fig. 4, item Y)
- Jib tensioning rods from 11.7 m [38 ft] to 12 m [40 ft]

9. LUFFING JIB 1916



NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

Overview of steps

Option A:

- Mount the jib tensioning rods on LR1300.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove jib add-on parts on the LR1280.
- Fit the jib add-on parts on the LR1300.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

- Dismantle all the jib tensioning rods required. Replace the "Convert pendant strap/tensioning rod length from 11.7 m [38 ft] to 12 m [40 ft]" modification kit.
- Mount the jib tensioning rods on LR1300.
- Remove the coupling links on the pivot points on the main boom pivot piece.
- Fit the "Coupling link diameter" modification kit to the pivot piece.
- Remove jib add-on parts on the LR1280.
- Fit the jib add-on parts on the LR1300.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

9.5 Luffing jib 1916 from LR1300 to LR1200

If luffing jib 1916, originally supplied with an LR1300, is to be fitted to an LR1200/LR1200SX, this modification kit must be used.

9.5.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 22/62/50 for luffing jib 1916 supplied with an LR1200/LR1200SX are used.

Option B:

Jib tensioning rods 22/66/55 for luffing jib 1916 supplied with an LR1300 are used.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.



NOTE!

The jib adjusting winch from the LR1300 can be used.

9.5.2 Product description

The modification kit contains the following components:

- 1x "Coupling link diameter" modification kit" (coupling link 50/55)

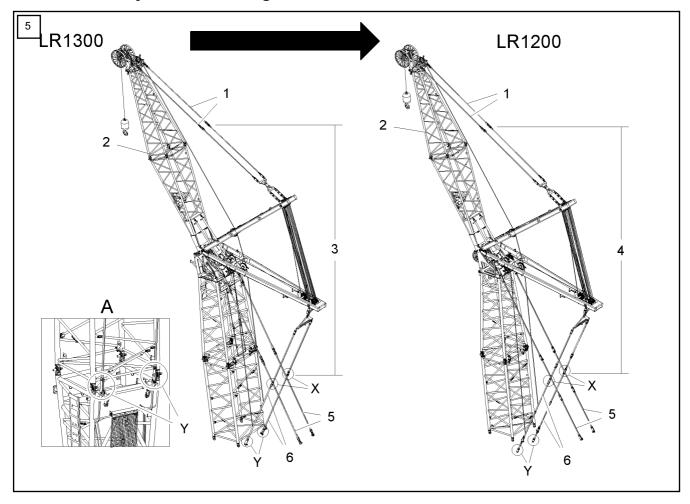
Option A:

- No modification kit required

Option B:

2x "Coupling link diameter" modification kit
 1x modification kit was supplied with the LR1300

9.5.3 Assembly and dismantling



- 1 Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1300
- 4 Jib add-on parts LR1200
- A Detail A

- 5 Main boom pendant straps
- 6 Jib tensioning rods
- X Coupling links, basic rope A-frame 2
- Y Coupling links for pivot piece

Detail A

Detail A shows the main boom pivot piece with the pivot points and jib tensioning rods bolted in place.

If luffing jib 1916, originally supplied with an LR1300, is to be fitted to an LR1200/LR1200SX, the following parts are subject to change:

Option A:

- no change

- Coupling links, basic rope A-frame 2 (Fig. 5, item X)
- Coupling links on the pivot points on the main boom pivot piece (Fig. 5, item Y)



NOTE!

Cotter pins that have been used once must be replaced with **new** ones.

IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

Overview of steps

Option A:

- Mount the jib tensioning rods on LR1200/LR1200SX.
- Remove the jib add-on parts on the LR1300.
- Fit the jib add-on parts on LR1200/LR1200SX.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

- Mount the jib tensioning rods on LR1200/LR1200SX.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove the coupling links on the pivot points on the main boom pivot piece.
- Fit the "Coupling link diameter" modification kit to the pivot piece.
- Remove the jib add-on parts on the LR1300.
- Fit the jib add-on parts on LR1200/LR1200SX.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

9.6 Luffing jib 1916 from LR1300 to LR1280

If luffing jib 1916, originally supplied with an LR1300, is to be fitted to an LR1280, this modification kit must be used.

9.6.1 Prerequisites

Main boom

Option A:

Jib tensioning rods 22/62/50 for luffing jib 1916 supplied with an LR1280 are used.

Option B:

Jib tensioning rods 22/66/55 for luffing jib 1916 supplied with an LR1300 are used.



In option B the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit is also required.

Jib adjusting winch

The machine on which the kit is to be fitted must have a type 2 jib adjusting winch.

NOTE!

The jib adjusting winch from the LR1300 can be used.

9.6.2 Product description

The modification kit contains the following components:

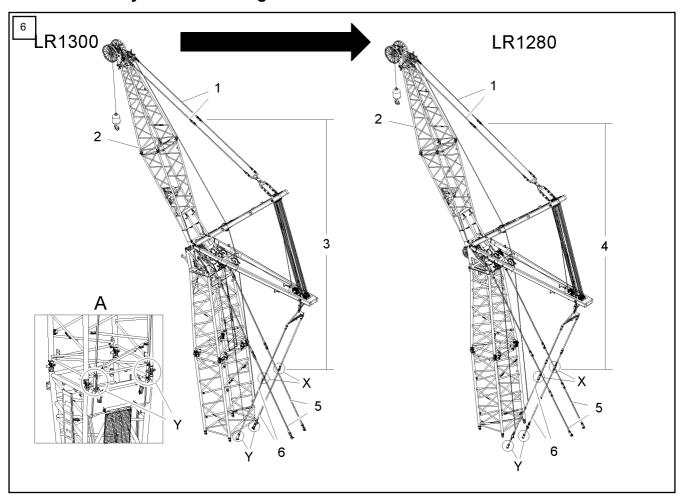
- 1x "Coupling link diameter" modification kit" (coupling link 50/55)

Option A:

- No modification kit required

- 2x "Coupling link diameter" modification kit
 1x modification kit was supplied with the LR1300
- 1x "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit

Assembly and dismantling 9.6.3



- 1 Jib pendant straps
- 2 Jib head
- 3 Jib add-on parts LR1300
- Jib add-on parts LR1200

- 5 Main boom pendant straps
- Jib tensioning rods 6
- X Coupling link, basic rope A-frame 2
- Coupling link for pivot piece

If the luffing jib 1916, originally supplied with an LR1300, is to be fitted to an LR1280, the following parts are subject to change:

Option A:

- no change

Option B:

- Coupling link, basic rope A-frame 2
- Coupling link for main boom pivot piece
- Jib tensioning rods from 12 m [40 ft] to 11.7 m [38 ft]



NOTE!

Cotter pins that have been used once must be replaced with new ones.



IMPORTANT!

For assembly and dismantling:

Use wooden blocks of adequate length to support the crossbar with coupling links in the jib add-on parts.

Overview of steps

Option A:

- Mount the jib tensioning rods on LR1280.
- Remove the jib add-on parts on the LR1300.
- Fit the jib add-on parts on the LR1280.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

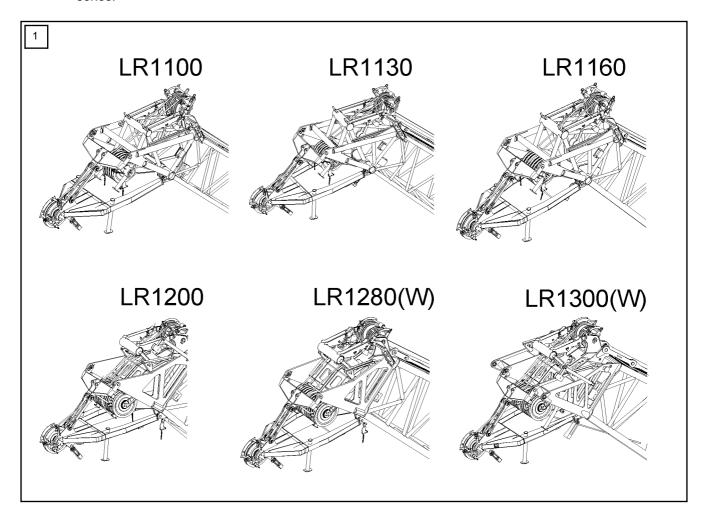
- Replace the coupling links on jib tensioning rods LR1300 with the "Convert pendant strap/tensioning rod length from 12 m [40 ft] to 11.7 m [38 ft]" modification kit.
- Mount the jib tensioning rods on LR1280.
- Check the coupling links, basic rope A-frame 2. The "Coupling link diameter" modification kit must be fitted.
- Remove the coupling links on the pivot points on the main boom pivot piece.
- Fit the "Coupling link diameter" modification kit to the pivot piece.
- Remove the jib add-on parts on the LR1300.
- Fit the jib add-on parts on the LR1280.
- Secure all bolts and spring plugs.
- Carry out the rest of the assembly as described in the operating manual.

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10. AUXILIARY JIB

10.1 Auxiliary jib on main boom head

The auxiliary jib on the main boom head can be fitted on any type of crawler crane from the LR series.



If the auxiliary jib from one type of crawler crane is to be fitted on a different type of crawler crane, the following parts may be subject to change:

- The reeving on the auxiliary jib
- The rope guard tube on the auxiliary jib

IMPORTANT!

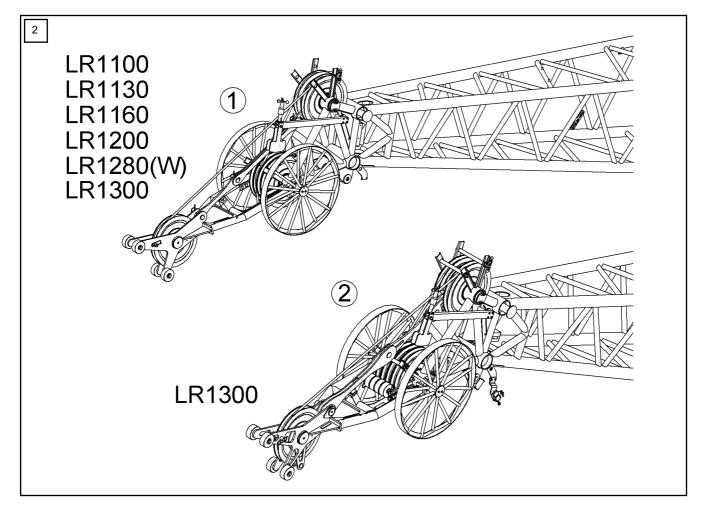
Permitted reeving of the auxiliary jib can be found in the forewords to the load chart.

IMPORTANT!

Fit the rope guard tube as described in the operating manual for the basic machine.

10.2 Auxiliary jib on jib head

The auxiliary jib on the jib head can be fitted on any type of crawler crane from the LR series.



1 Auxiliary jib 1

2 Auxiliary jib 2

If the auxiliary jib on the jib head of one type of crawler crane is to be fitted on a different type of crawler crane, the following parts may be subject to change:

- no change



NOTE!

Auxiliary jib 2 (Fig. 2, item 2) must only be mounted on luffing jib 2316 on LR1300.

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The table below shows:

- Which auxiliary jib is available on the jib head

Auxiliary jib 1 (Fig. 2, item 1)						
System size	1008	1309	1713	1916	2316	
LR1100	0	0				
LR1100-2017*		0				
LR1130		0				
LR1160		0	0			
LR1200/LR1200SX			0	0		
LR1280			0	0		
LR1300				0		

^{*} Special model

Auxiliary jib 2 (Fig. 2, item 2)						
System size	1008	1309	1713	1916	2316	
LR1300					0	

10. AUXILIARY JIB

11. LR1100-2017

If luffing jib 1309, originally supplied with an LR1100-2017*, is to be fitted to a different type of crawler crane, this modification kit must be used.

11.0.1 Overview of modification kits required

The table below shows:

- Which modification kit is required to convert luffing jib 1309.

Luffing j	ib 1	309		
LR1100-2017*	to	LR1100	Modification kit	Luffing jib 1309 from LR1130 to LR1100
LR1100-2017*	to	LR1130	no modification kit	
LR1100-2017*	to	LR1160	Modification kit	Luffing jib 1309 from LR1130 to LR1160
LR1100	to	LR1100-2017*	Modification kit	Luffing jib 1309 from LR1100 to LR1130
LR1130	to	LR1100-2017*	no modification kit	
LR1160	to	LR1100-2017*	Modification kit	Luffing jib 1309 from LR1130 to LR1160

^{*} Special model

11. LR1100-2017