

Service Training
Electric forklift truck

Linde Material Handling

Series RX60

RX60-40, RX60-45, RX60-50

Edition 04/2008

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General

General technical data

Hydraulic pump

Type	Internal gear pump, Eckerle
Rotation	anticlockwise
Delivery volume	
	22 cm^3 per revolution
Tightening torques:	
Suction flange	4 x socket head screw M6 x 50 DIN 912, quality 8.8 Tightening torque: 9 $^{+1}$Nm
Priority valve	4 x socket head screw M6 x 50 DIN 912, quality 8.8 Tightening torque: 9 $^{+1}$Nm LS: 35 Nm EF: 90 Nm CF: 70 Nm
Hydraulic pump	2 x socket head screw M8x120 DIN 912, quality 8.8 Tightening torque: 23 Nm

Hydraulic speeds

Steering	
Dynamic alignment	600–900rpm
Auxiliary hydraulics	See the chapter entitled "Auxiliary hydraulics"

Hydraulic speeds Multi-levers

	RX60-25	RX60-30 – 35	RX60-40 – 50
Lifting			
	2600rpm	3300 rpm	3600rpm
Tilt			
Nominal lift < 3500	1300rpm	1300rpm	1400 rpm
Nominal lift 3500 – 5000	760rpm	760rpm	920rpm
Nominal lift > 5000	420rpm	420rpm	500 rpm

Hydraulic speeds Proportional technology

	RX60-25	RX60-30 – 35	RX60-40 – 50
Lifting			
	2600rpm	3300 rpm	3600rpm
Tilt			
Nominal lift < 3500	1380rpm	1380rpm	1400 rpm
Nominal lift 3500 – 5000	800 rpm	800 rpm	920rpm
Nominal lift > 5000	480rpm	480rpm	500 rpm

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Hydraulic pump — error detection

Error	Cause	Remedy
Noise in the hydraulic pump	The hydraulic system has leaks and is sucking in air	- Check the radial seal ring in the pump motor - Check the O-ring between the suction hose and hydraulic pump - Mechanical damage in the hydraulic pump
Hydraulic oil is frothy		
Hydraulic functions are slow to respond		

Hydraulic pump
Removal and installation

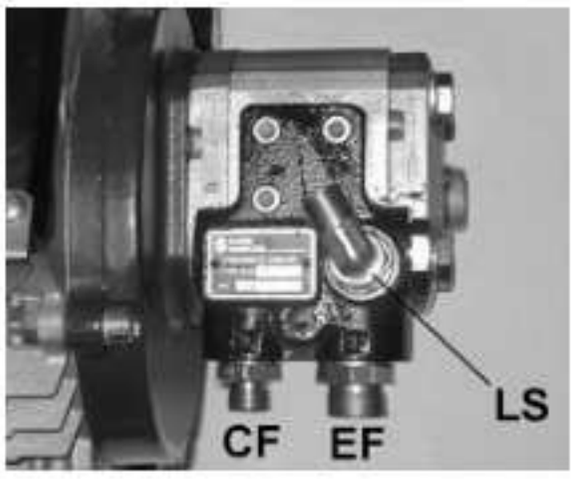
Removal

NOTE

- *Place a collection vessel under the hydraulic pump.*
- *Dispose of used hydraulic oil in accordance with environmental regulations and do not re-use under any circumstances.*

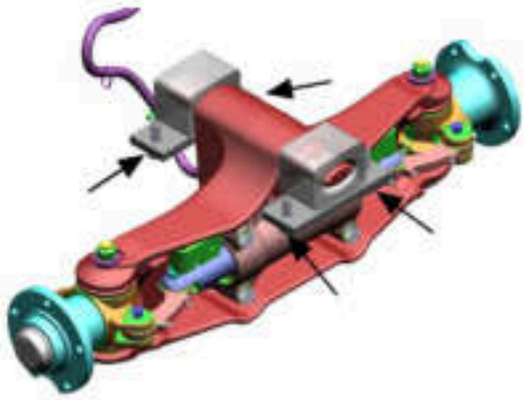
The hydraulic pump is located at approximately the same height as the oil level in the tank. The hydraulic pump intake pipe is situated beneath the hydraulic tank, with the end of the intake pipe located at approximately the same height as the oil level. Draining all of the hydraulic oil is to be avoided if possible.

- ➢ Park the truck safely
- ➢ Tilt the lift mast forwards
- ➢ In order to reduce the volume of oil in the tank, extend the lift mast as far as the ceiling allows and secure it
- ➢ Disconnect battery plug.
- ➢ Remove the floorplate with the accelerator pedal and disconnect the plug
- ➢ Detach the hydraulic connections on the priority valve ▷
- ➢ Unscrew the priority valve from the hydraulic pump



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- Position a forklift truck under the steering axle and raise it to the stop
- Unscrew the four M16 axle bearing screws and remove the joining plates



- The steering axle is retained by the forklift truck



- Lower the steering axle, carefully tilt it forwards and remove it sideways from the truck



Installation

NOTE

- *Check screw quality and tightening torques*
- *Check the quality of pourable plastics*
- *For values, see "General technical data" in the chapter entitled "Steering axle"*

- Position the steering axle under the truck from the side
- Lift the steering axle, taking care to keep it in a straight position
- Insert the buffer element, lightly greased with multi-purpose oil in the bearing shells in the counterweight



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➢ Position the overhead guard with the rear bearing on a suitable pallet stack ▷



Installing the overhead guard

Preparation

Installing the overhead guard varies according to truck type and equipment version.

Significant differences are indicated in the removal instructions.

The overhead guard is ready, placed separately on a stack of pallets ▷



Only install cab parts once the overhead guard has been screwed onto the chassis:

- Cab doors and side parts
- Roof window
- Heater

Installation

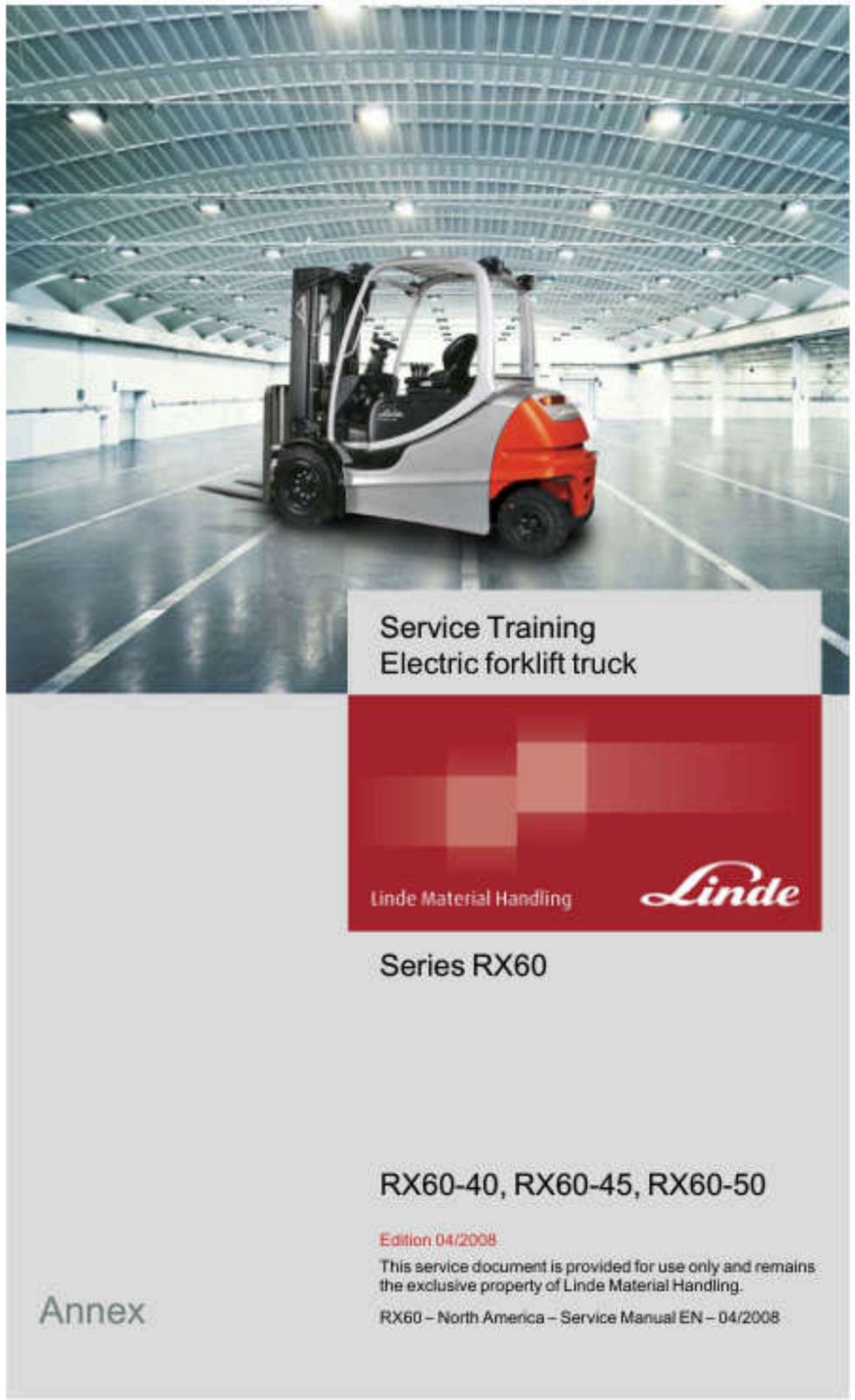
➢ Secure the overhead guard with a lifting sling and a crane or truck ▷



⚠ CAUTION

The overhead guard may slip sideways
Check the fastening and position of the lifting sling

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Annex

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