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## **SERVICE MANUAL**

Truck: PS PSH

Manual No: 119029

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Edition 2008B

## **1 General information and technical data**

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Edition 2008B

# 1 General information and technical data

## Service manual scope

### General

This manual describes the service procedure for ATLET stackers. Use the manual for quick and correct service.

You may find inconsistencies in the manual compared to the models supplied due to optional designs, upgrades and the like.



### **Warning!**

**If the truck is rebuilt after delivery or supplemented in such a manner that safety may be compromised, ATLET or its authorised representative must be contacted.**

Any modifications to the truck are only permitted by authorised personnel. Only in cases where a truck manufacturer is no longer a going concern and where no other company has taken over the operations of said truck manufacturer may the user change or modify the truck, and then only providing the user:

- Arranges that the modification or change is designed, tested and implemented by one or more industrial truck experts, and includes the safety aspect.
- Prepares and keeps permanent documentation covering design, tests and implementation of the modification or change.
- Approves and makes appropriate changes to identification plate, decals, markings and in the instruction manuals.
- Attaches a permanent and clearly visible sign or similar that details the way in which the truck has been modified or changed together with the date of the modification or change and the name and address of the organisation that carried out the task.

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Modifications and updates will be distributed via ATLET AB Service Manual Change.

### Scope of P series

The manual cover the PS and PSH stackers that are included in the P series of stackers and low lifters.

# How to use the manual

## Structure

The manual is arranged according to the same principles as ATLET's spare part catalogues, with the truck divided into one subsystem per tab.

Tabs 1 - 3 in this manual contain comprehensive information regarding technical data, service instructions and tools.

Tabs 4-12 in the manual contain information limited to a specific part of the truck dealing with the mechanical operation of the various components, for example, Masts (tab 6) and Hydraulic System (tab 8).

The software is described under tab 10 "Electrical System" .

The main principle for extra accessories is to place them under the relevant tab. Otherwise they are placed under tab 12 "Miscellaneous". For this reason tab 12 is not always included in the Service Manual.

For specific problems and information about procedures, look in the main index for the correct section in the manual

## Symbol key



### **Warning!**

Indicates risk of personal injury.



### **Important!**

Indicates risk of damage to truck.



### **Note!**

Indicates general observations.

# Safety instructions

## General

Extreme importance must be placed on precautionary measures to avoid accidents during all work on the vehicle.

A general rule is always to implement preventive measures that are adapted to the type of vehicle to be worked on. The general rules below must always be observed:

- Smoking or naked flames are strictly forbidden as there is a risk of explosion in the vicinity of batteries and while working on gas equipped vehicles.
- The battery should always be protected during grinding work.
- Local fire regulations should be observed
- Always lift the drive wheel free from the floor during service work to prevent the vehicle from moving.
- Remove the battery plug before working on the electrical system. The battery plug may only be connected while troubleshooting, and when the greatest of care is exercised, (with the truck raised).
- In order to avoid crushing injuries, always remove the battery plug when working on or around masts and hydraulic units. The mast or hydraulic unit may be actuated due to an electrical fault or a mistake while working.

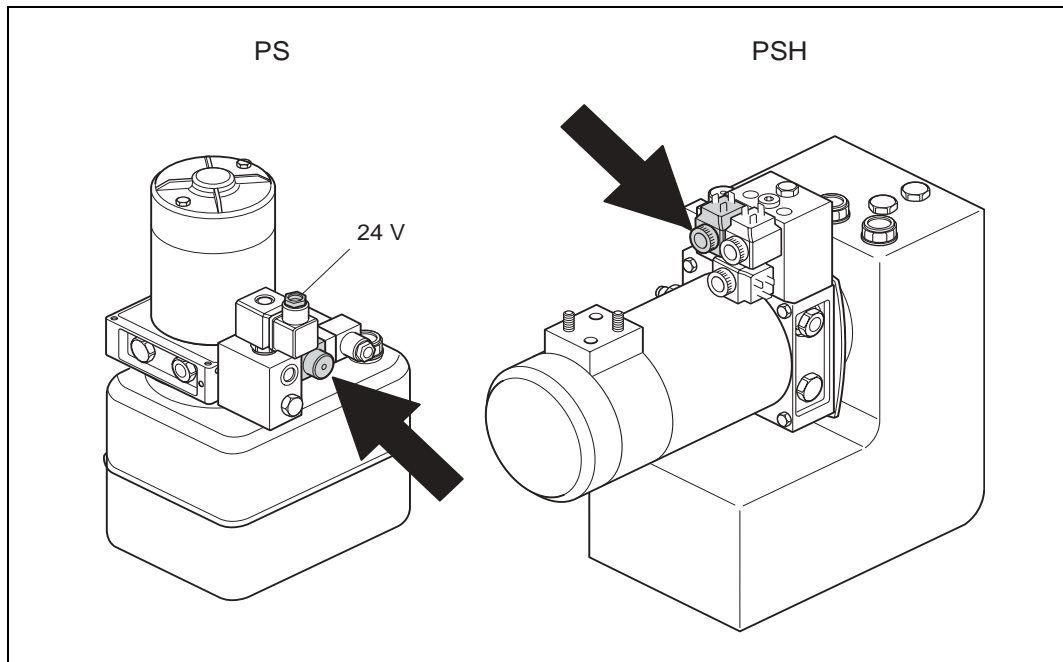


### ***Warning!***

**Having live current connected to the truck when working on and around the mast can be fatal!**

- When working on and around the lifting device and hydraulic unit, they must be locked by using the mast lock, wooden blocks or some other appropriate means.
- No other persons should be in the vicinity of the truck when it is test run in conjunction with repair work, in view of the risk of accidents or near-accidents from the truck making an unexpected manoeuvre.
- The system should not be pressurised, e.g. the pump motor shut off and the forks in lowest position, when dismantling parts of the hydraulic system.

- If the forks need to be released in emergency situations such as short circuits, push the emergency release valve on the hydraulic unit, see Figure 1.1.



**Figure 1.1** Emergency release valve on hydraulic unit

- Remove all metal objects such as watches, chains, glasses and rings when working on the electrical system, or in its immediate vicinity. A short-circuit from such objects may result in serious burn injuries.

## Lifting the truck

### Inspection/Preparations

- When the truck is lifted using a jack, make sure you secure it with blocks. The truck must not rest on the jack while work is carried out.
- Ensure that straps, wires or chains have a sufficient lifting capacity before lifting the truck.
- Ensure that the drive wheel runs free of the floor before troubleshooting the electrics.

## Permitted lifting points

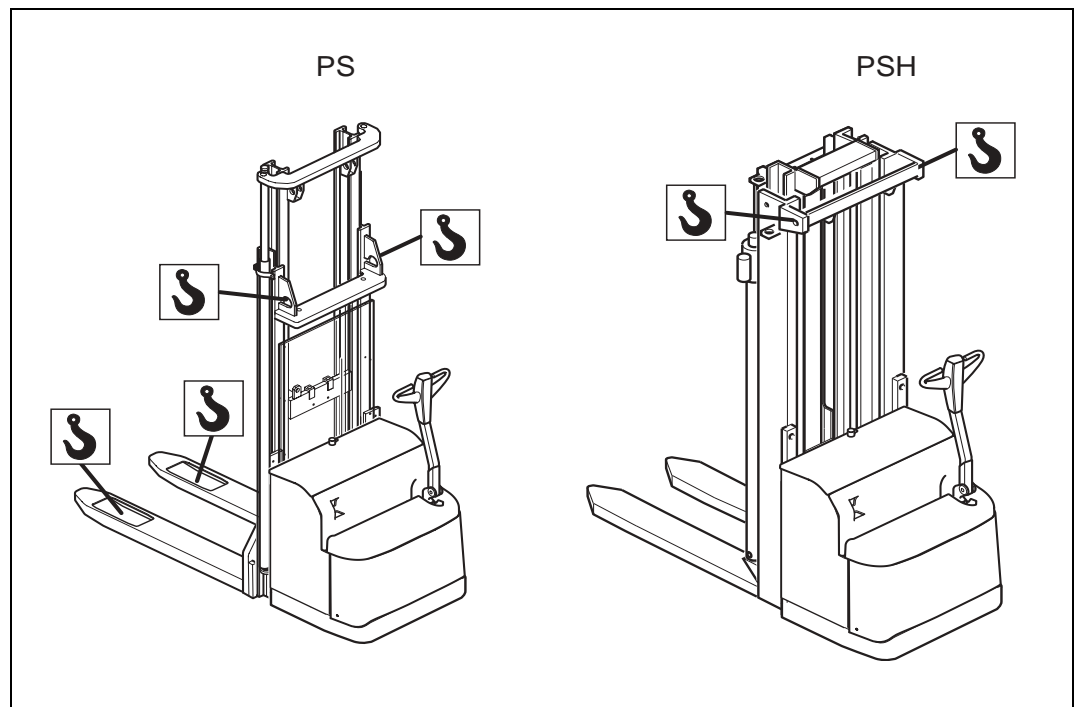


Figure 1.2 Permitted lifting points

Figure 1.2 shows where the permitted lifting points are located on the truck. The lifting points are marked with a decal representing a lifting hook.



### **Warning!**

**Never lift the truck using points other than those specified.**

## Welding of truck

- For welding work, always disconnect the battery plug along with all connections to controllers and regulators (applies to all electronic units). Following completion of the welding work, connect all connectors to the electronic units first, followed by the battery plug to the battery.
- Always connect the return current clamp as close to the welding area as possible to eliminate damage to surrounding components.

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