



INSTRUCTIONS FOR:
2000KG PALLET TRUCK WITH SCALES
 Model: **PT1150SC**

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

⚠ IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

- X Do not use a faulty or damaged truck.
- X Do not adapt or modify the truck.
- ✓ Before using the truck all parts and working mechanisms should be checked for wear or damage. Pay particular attention to the wheels, handle and fork lifting and lowering mechanism. Any parts found to be worn, damaged or suspect should be repaired or replaced before the truck is used.
- ✓ All repairs must be carried out by an authorised Sealey service agent.
- ✓ Personnel who operate the truck and those in the vicinity of operation should wear safety shoes with reinforced toe caps at all times.
- X Never place any part of your body in the lifting mechanism or under the forks or load.
- X Do not allow others to ride on the truck.
- X Do not lift or move unstable or loosely stacked loads.
- ✓ Take special care when moving long, high or wide loads in order not to dislodge the load by striking any architectural features, permanent fixtures, vehicles or people in the area of operation.
- ✓ Always ensure that the load is evenly distributed across the forks with the centre of the load being at the halfway point of the length of the forks.
- X Do not overload the truck - refer to the specification for maximum permitted load.
- ✓ If a load is left unattended even for a very short period of time it should be lowered to the ground.
- ✓ When not in use the truck should be left in the lowered position.
- ✓ Ensure that the width and length of the forks is correct for the pallet to be lifted.
- ✓ Ensure that the truck is sufficiently inserted into the pallet to lift the full width of the pallet.
- X Do not use truck on sloping or uneven ground and do not attempt to negotiate curbs, steps or ramps. Use the truck on level, flat, hard surfaces.
- ✓ The operator of the truck must be physically capable of controlling the load selected; particularly in relation to stopping a rolling load.
- ✓ Do not use the truck in areas of low lighting (minimum 50 lux or less).

2. INTRODUCTION & SPECIFICATION

Introduction.

The PT1150SC pallet truck is of heavy gauge steel construction and drop forged control arms provide strength and durability. The quality hydraulic system can be easily stripped for maintenance and features hand operated lowering with speed control valve for a controlled descent. Polyurethane wheels allow smooth rolling even when fully laden and fork end rollers permit easy access over pallet struts.

Specification.

Model No	PT1150SC
Capacity	2,000kg
Power source	12 V Battery, Mains Adaptor or six 'D' cells
Environment	General purpose, dry
Operating temperature	-10°C to 40°C (14°F to 104°F)
Min/Max fork height	88/200mm
Accuracy	±1.0kg
Width	568mm
Fork length	1150mm



3. ASSEMBLY

3.1 Attaching the Console to the Pallet Truck

- 3.1.1 Remove the four bolts (1) from the fork frame. Refer to Fig. 1.
- 3.1.2 Move the sliding contact (2) of the cover board to the upper right and remove the cover board.
- 3.1.3 Locate the mounting box (4) on the pallet truck mounting.
- 3.1.4 Take the cable (5) out through the mounting box opening.
- 3.1.5 Replace and tighten the four bolts removed at paragraph 3.1.1.

NOTE: The truck is supplied with a 12V battery installed and a battery charger, plus a mains adaptor. If dry cell use is required, proceed as follows:

- 3.1.6 At the rear of the console, open the battery compartment cover by pushing the spring-loaded catch on the left hand side of the compartment to the right.
- 3.1.7 Insert six "D" type dry batteries. Refer to Fig. 2.
- 3.1.8 Connect the cable (5) to the console (6) connection port on the left hand side, rear.
- 3.1.9 Replace the cover board removed at paragraph 3.1.2 and lock it in position.
- 3.1.10 The console is now fixed in the normal operating position.

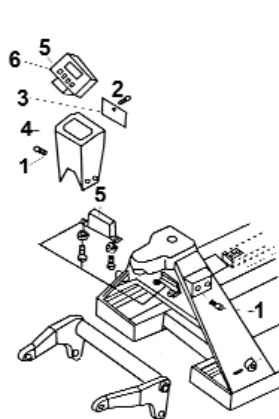


Fig. 1

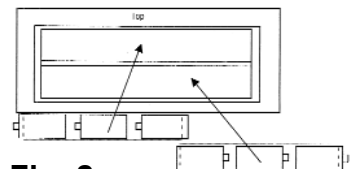


Fig. 2



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4. OPERATING HANDLE ATTACHMENT

IMPORTANT: Numbers in Fig. 3 are designated by oval brackets, those in Fig 4 by square brackets.

- 4.1 Connect the operating handle (1), on to the pump piston [1].
- 4.2 Using a hammer, insert the axle with the central hole (2), into the hydraulic pump body [2], and the operating handle.

IMPORTANT: Insertion is from **LEFT to RIGHT**, viewed from the front of the console.

NOTE: The control lever on the operating handle is a 3-position lever. Refer to Fig. 5.

- 4.3 Set the control lever (3) on the operating handle (1) to the **LOWER** position. Refer to Fig. 5.
- 4.4 Pass the adjusting nut (4), the adjusting bolt (5) and the chain (6) through the central hole of the axle (2).
- 4.5 Depress the operating handle and remove the plastic pin [3] preventing the spring [4], from operating.
- 4.6 Set the control lever (3) on the operating handle (1) to the **RAISE** position. Refer to Fig. 6.
- 4.7 Raise the lever plate [5] with the pin and insert the adjusting bolt (5) into the front slot of the lever plate.

NOTE: Keep the adjusting nut (4) on the under side of the lever plate.

- 4.8 Using a hammer, tap the elastic pins (7) into the axle with the central hole (2).
- 4.9 The operating handle is now attached to the pump.

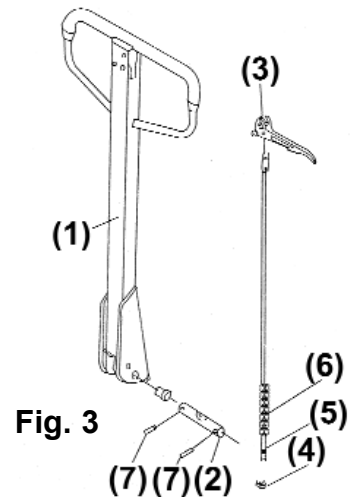


Fig. 3

5. OPERATING HANDLE ADJUSTMENT

- 5.1 The operating handle control lever can be set to one of three positions, as shown in Fig. 5. They are:

- 5.1.1 **RAISE:** Control lever in the DOWN position.
- 5.1.2 **DRIVE:** Control level in the CENTRAL position.
- 5.1.3 **LOWER:** Control lever in the UP position.

- 5.2 If the above positions have been altered, they can be restored by carrying out the following adjustments.

- 5.2.1 If the forks rise whilst pumping in the **DRIVE** position, turn the adjusting nut (4) on the adjusting bolt (5) or the screw [6] **clockwise**, until the pumping action does not raise the forks and the **DRIVE** position functions normally.
- 5.2.2 If the forks lower whilst pumping in the **DRIVE** position, turn the adjusting nut (4) or the screw [6] **counterclockwise**, until the pumping action does not lower the forks.
- 5.2.3 If the forks do not lower when the control lever is in the **LOWER** position, turn the adjusting nut (4) or the screw [6] **clockwise**, until raising the control lever lowers the forks.

NOTE: Check the **DRIVE** position again by repeating paragraphs 5.2.1 and 5.2.2 to ensure that the adjusting nut (4) and the screw [6] are still in the correct position.

- 5.2.4 If the forks do not rise when pumping in the **RAISE** position, turn the adjusting nut (4) or the screw [6] **counterclockwise** until the forks rise.

NOTE: Check the **LOWER** and **DRIVE** positions again from paragraphs 5.2.1 to 5.2.3 to ensure that the **LOWER** and **DRIVE** positions are functioning correctly.

6. OPERATION

6.1 Operating the Pallet Truck

WARNING! An operator must be fully conversant with the safety instructions at Section 1.

- 6.1.1 Prior to operating the pallet truck, check the wheels, the operating handle and the fork unit to ensure they are fit for purpose.
- 6.1.2 Move the truck with the operating handle control lever in the **DRIVE** position, as this makes the operating handle easier to move and also depressurises the hydraulic pump. **DO NOT** overload the pallet truck.
- 6.1.3 Ensure that the goods being transported are placed on the middle of the pallet truck forks. Refer to Fig. 6. Depress the power ON switch on the right-hand side of the console.

6.2 Measuring Gross Weight

- 6.2.1 Set the operating handle control lever to the **LOWER** position and lower the pallet truck.
- 6.2.2 Depress the "PRINT" key until the backlight switches ON. Refer to Fig. 7. The console will then display **0kg**.
- 6.2.3 Place the pallet forks under the load to be weighed. Ensure that the load is correctly balanced. Refer to Fig. 6.
- 6.2.4 Set the operating handle control lever to the **RAISE** position and pump the operating handle. Ensure that the pallet is clear of the floor.

NOTE: The reading indicated on the console is the gross weight, i.e. that of the goods and the pallet.

6.3 Measuring Net Weight

NOTE: This method is used for goods packed on a standard pallet.

- 6.3.1 With an empty pallet on the forks, depress the "TARE" key. Refer to Fig. 8. The console will then display **0kg**.
- 6.3.2 Remove the pallet from the pallet truck forks. The console will then display **-40kg**.
- 6.3.3 Repeat the operations carried out at 6.2.3 and 4. The reading now indicated on the console is the net weight of the goods.

NOTE: To switch measurement between kilograms and pounds, depress the "FUNCTION" key. Refer to Fig. 9.

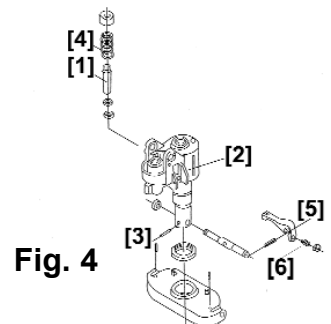


Fig. 4

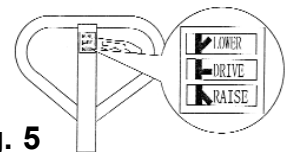


Fig. 5

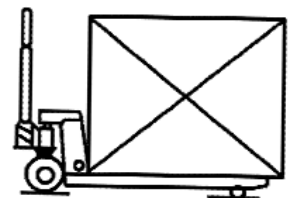


Fig. 6

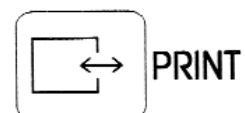
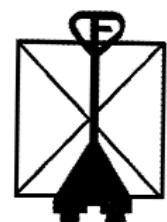


Fig. 7

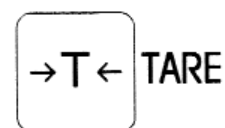


Fig. 8

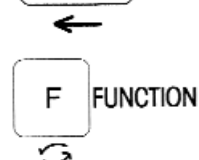


Fig. 9

6.4 Battery Charging

Battery Specification:

6.4.1 A battery charger is provided as an accessory with the Pallet Truck. Refer to Fig. 10.

Battery Voltage: 12V
 Battery Capacity: 30 Ampere-hour (Ah)
 Charging Time: 5 hours/12V
 Input Voltage: 110V/220V.

6.4.2 When the console battery charging symbol indicates that the battery needs recharging, it will appear on the left hand side of the console display, as shown at Fig. 12 and Fig. 15.

6.4.3 Switch off the console power supply and insert the battery charger plug into the battery charging socket, located at the right hand side of the mounting box, as shown at Figs. 11 and 12.

6.4.4 Connect the battery charger to the mains supply socket.

6.4.5 During charging, the LEDs on the battery charger will illuminate. The red LED is the POWER APPLIED LED and the green LEDs are the CHARGE INDICATOR LEDs.

6.4.6 The battery is fully charged when ALL three green LEDs are illuminated.

NOTE: DO NOT recharge the battery for more than 24 hours at a time.

6.5 Mains Adaptor

6.5.1 There is a mains adaptor provided with the pallet truck, which enables it to be operated from a 230VAC 50Hz mains supply.

6.5.2 The adaptor output is 9VDC, 500mA.

6.5.3 Switch off the console and insert the AC/DC adaptor into the socket adaptor, located on the right hand side of the mounting box. Refer to Figs. 11 and 14.

6.5.4 Plug the adaptor into the mains supply socket and switch the console on.

6.5.5 The pallet truck is now ready to be operated from the mains supply.

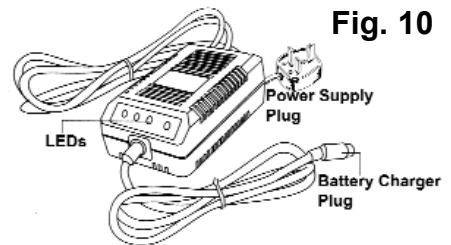


Fig. 10

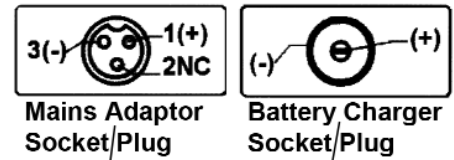


Fig. 11



Fig. 12



Fig. 13



Fig. 14

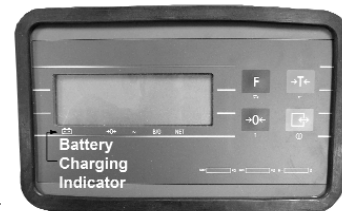


Fig. 15

7. MAINTENANCE

7.1 Daily Maintenance Check

7.1.1 Check the state of the wheels and the axles since thread, rags and other foreign objects can jam the wheels making safe, effective operation difficult.

7.1.2 On completion of each task, unload the forks and return them to the lowest position.

7.2 Oil Check

7.2.1 Check the oil level at six monthly intervals. Sealey hydraulic jack oil is used with the pallet truck. The viscosity of the oil should be 30cSt at 40°C. The amount used in the pallet truck is approximately 0.4 litres.

7.3 Lubrication

7.3.1 The bearings and shafts of the pallet truck have long-life grease applied to them during manufacture. The bearings will only require greasing at monthly intervals or after the pallet truck had been serviced down to the lubrication points.

7.4 Purging Air from the Hydraulics

7.4.1 Air can get into the hydraulic oil through transportation, or the pump becoming misaligned. As a result, the forks will not elevate.

7.4.2 The air can be purged by setting the control level to the **LOWER** position and pumping the operating handle up and down for a few seconds.

7.4.3 When the pallet truck is not in use, lower the forks and park the truck where it will not be a hazard.

8. FAULT FINDING

8.1 Fault-finding on the pallet truck.

Problem	Cause	Remedy
The forks cannot be raised to their maximum height.	There is insufficient oil in the reservoir.	Replenish the oil to the correct level.
The forks cannot be raised.	No hydraulic oil or impurities or air in the oil. The adjusting nut (4) in Fig. 3 is too high. Keep pumping valve open.	Replenish or change the oil. Reset the adjusting nut or bolt (5) in Fig 3. Purge the air from the hydraulic system.
The forks cannot be lowered.	The pump piston [1] Fig.4 or the pump [2] is deformed. Forks kept in the raised position resulting in the rod jamming. The adjusting nut or screw incorrectly positioned.	Replace the piston rod. Keep forks in the lowest position when not in use. Adjust the nut (4) or screw (6).
The forks lower without the release valve operating.	Impurities, or air, has got into the release valve oil. Parts of the hydraulic system have been damaged. Adjusting nut (4) or screw (6) incorrectly positioned.	Replace the oil and/or purge the air from valve. Inspect and replace the damaged parts. Adjust the nut (4) or screw (6).
The scale result displayed is incorrect.	The retaining bolts are scraping on the platform. The platform is scraping on the forks.	Adjust the retaining bolts. Lift the platform clear of the forks.
There is no display on the pallet truck console.	The battery power is too low.	Replace the battery.





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8.2 Fault-finding on the console display.

Error Message	Cause	Remedy
E1	ROM error.	Check power supply voltages. Replace controller PCB.
E2	Internal RAM error.	Check power supply voltages. Replace controller PCB.
E7	EEPROM data incorrect.	Check power supply voltages. Replace controller logic PCB.
E30	Scale in motion during calibration.	Press PRINT to return to [E SCAL] or [ADD LD].
E32	Insufficient calibration test weight, or insufficient signal from the load cell.	Press PRINT , then add additional test weight. Recalibrate using more test weight.
E34	The calibration test weight is too large.	Press PRINT . Use a test weight less than 100% of the scale capacity.
E E E	The scale was not zeroed at switch-on.	Auto zero at switch-on (F2.9) is enabled and the weight on the platform is greater than the programmed zero capture range. Zero the scale or remove the weight until zero is captured. Recalibrate the scale.
-E E E	Scale not zeroed at switch-on.	Auto zero at switch-on (F2.9) is enabled and sufficient weight is NOT on the platform. Add weight until the zero is captured. (Put platform on). Recalibrate the scale.
	Overload indication.	The weight on the scale exceeds the calibrated capacity by more than 9d. Decrease the load on the scale.
	Underload indication.	The weight on the scale is below the calibrated capacity by more than 9d. Increase the load on the scale.

8.3 Fault-finding on the weighing unit.

Problem	Cause	Remedy
Data Drift.	The fastener, or the end of a thread in the junction box is loose, or has dropped.	Confirm that the junction box is safe and then check the connection in the box.
Indicator cannot be turned on.	Battery voltage is insufficient. Battery life is exhausted. The charging jack is damaged.	Recharge the battery. Replace the rechargeable battery. Replace the charging jack.
Battery cannot be charged.	The battery is damaged. The battery charger is damaged.	Replace the rechargeable battery. Check the battery charger output voltage [18V].
On switch-on, the scale displays EEE.	There is a load on the forks.	Remove the load and then switch on the scale.
Whilst turning, the scale displays EEE.	The connection between the sensor and the junction box is loose or has disconnected.	Check the connection between the sensor and the junction box. Replace the sensor.

9. DECLARATION OF CONFORMITY

Declaration of Conformity We, the sole importer into the UK, declare that the product listed is in conformity with the following standards and directives.

2000kg Pallet Truck with Scales
Model PT1150SC

98/37/EC Machinery Directive
93/68/EEC CE Marking Directive
2004/108 EMC Directive
73/23/EEC Low Voltage Directive



The construction file for this product is held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

Signed by Mark Sweetman

Date: 12th April 2006

For Jack Sealey Ltd. Sole importer into the UK of Sealey Quality Machinery.

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

IMPORTANT: No liability is accepted for incorrect use of this equipment

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: For copy of our latest catalogue & promotions, call on 01284 757525 and leave your full name and address, including postcode.



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