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- › CAARLA /
- › CAARLA Manual Pallet Truck User Manual

CAARLA AC2.5*540*1150, DF2.5*550*1150

CAARLA Manual Hydraulic Pallet Truck User Manual

Brand: CAARLA | Model: AC2.5*540*1150, DF2.5*550*1150 Series

1. INTRODUCTION

The CAARLA Manual Hydraulic Pallet Truck is a robust and versatile material handling tool designed for efficient and reliable transport of goods. Its compact design, combined with a powerful hydraulic system, makes it ideal for various industrial and warehouse environments. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your pallet truck.

This series includes models with different capacities and oil pump types (AC and DF), each engineered for durability and performance. Understanding the specific features of your model will ensure optimal use and longevity.

2. KEY FEATURES

- **Built to Last:** Fork tips are tapered and include an Entry Guide Roller for smooth pallet insertion. Equipped with a high-quality Hydraulic Pump Unit for exceptional performance and reliability.
- **Unmatched Durability & Stability:** Constructed with solid materials, ensuring concrete stability even under heavy loads, suitable for demanding warehouse and shipping environments.
- **Ergonomic Design for Ease of Use:** Features a handle with an ergonomic grip, designed to reduce strain and provide maximum comfort during prolonged use.
- **Versatile & Portable:** This compact and portable pallet truck is ideal for navigating tight spaces. It serves as a versatile tool for moving heavy loads with ease.
- **Enhanced Maneuverability:** Narrowed fork ends are fitted with double bogie wheels to allow the truck to move easily over uneven ground.

3. SETUP AND ASSEMBLY

While the CAARLA Manual Hydraulic Pallet Truck typically arrives largely pre-assembled, some minor setup may be required before initial use. Always ensure all components are securely fastened and in good working order.

1. **Unpacking:** Carefully remove the pallet truck from its packaging. Inspect for any visible damage that may have occurred during transit.

2. **Handle Assembly (if required):** If the handle is not pre-attached, align the handle base with the pump mechanism and secure it using the provided pins or bolts. Ensure the control lever linkage is correctly connected to the hydraulic pump.
3. **Fluid Level Check:** Verify the hydraulic fluid level. If low, consult the maintenance section for proper fluid type and refilling procedures.
4. **Functional Test:** Before loading, perform a test run. Operate the lift and lower functions several times to ensure smooth hydraulic action. Check that the wheels roll freely and the steering mechanism operates without obstruction.
5. **Safety Check:** Confirm all safety decals are present and legible. Ensure no loose parts or foreign objects are present on or around the truck.



Figure 3.1: Side view of the CAARLA Manual Hydraulic Pallet Truck, showing the handle, hydraulic pump, and forks.



Figure 3.2: Front-side view of the pallet truck, highlighting the front wheels and hydraulic unit.

4. OPERATING INSTRUCTIONS

Proper operation ensures safety and extends the life of your pallet truck. Always adhere to load capacity limits and operate on stable, level surfaces.

4.1. Lifting a Load

1. **Positioning:** Guide the pallet truck forks fully underneath the pallet. Ensure the load is centered and stable on the forks.
2. **Engage Lift:** Move the control lever on the handle to the "Lift" or "Up" position.
3. **Pump Handle:** Pump the handle up and down repeatedly. The forks will gradually rise, lifting the pallet off the ground. Continue pumping until the pallet is clear of the floor and ready for transport.

4.2. Moving a Load

1. **Steering:** Use the handle to steer the pallet truck. The steering wheels allow for maneuverability in tight spaces.
2. **Push/Pull:** Push or pull the pallet truck to move the load to its desired location. Always maintain a clear line of sight and be aware of your surroundings.
3. **Speed Control:** Control your speed, especially when navigating turns or uneven surfaces, to prevent tipping or loss of control.

4.3. Lowering a Load

1. **Positioning:** Once at the destination, ensure the pallet truck and load are in a stable position.
2. **Engage Lower:** Move the control lever on the handle to the "Lower" or "Down" position. The forks will slowly descend.
3. **Release:** Once the pallet is fully on the ground, carefully pull the pallet truck forks out from underneath the pallet.

4.4. Understanding AC vs. DF Oil Pumps

Your CAARLA pallet truck may feature either an AC (Integral) or DF (Split) oil pump, which affects its performance characteristics:

- **AC Oil Pump (Integral Pump):** This is a one-time casting. Its advantage is that it can be lifted after loading, saving labor. The integral pump valve uses an imported integral valve core, contributing to a longer service life. Key components are imported from Germany to prevent oil leakage. The large and small piston rods are chromium-plated for strong structure. An internal relief valve provides overload protection, preventing damage from excessive loads.
- **DF Oil Pump (Split Pump):** This pump is split welded and features a split valve core. While functional, it may differ in long-term durability and ease of lifting compared to the integral AC pump.



Figure 4.1: Rear-side view of the pallet truck, showing the rear wheels and the base of the handle.



Figure 4.2: Angled view of the pallet truck from the front, illustrating the fork design and entry rollers.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your CAARLA pallet truck.

- **Lubrication:** Periodically lubricate all moving parts, including axles, pivot points, and the pump mechanism, with appropriate grease or oil.
- **Hydraulic Fluid:** Check the hydraulic fluid level regularly. If low, refill with high-quality hydraulic oil (e.g., ISO VG 32 or equivalent). Consult a professional if you suspect a leak.
- **Wheel Inspection:** Inspect wheels for wear, damage, or debris. Replace worn wheels promptly to ensure smooth operation and prevent floor damage.
- **Cleaning:** Keep the pallet truck clean, especially the forks and wheels, to prevent accumulation of dirt and debris that can hinder operation.
- **General Inspection:** Routinely check all bolts, nuts, and fasteners for tightness. Ensure the handle and control lever operate smoothly.



Figure 5.1: Top-down view of the pallet truck forks, showing the entry points and wheel placement.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your pallet truck.

Problem	Possible Cause	Solution
Forks do not lift or lift slowly.	Low hydraulic fluid level; Air in hydraulic system; Overload; Damaged pump seals.	Check and refill hydraulic fluid; Bleed air from the system (consult manual or professional); Reduce load to within capacity; Contact service for seal replacement.
Forks descend on their own.	Release valve not fully closed; Internal hydraulic leak; Worn seals.	Ensure control lever is in "Lift" position; Check for external leaks; Contact service for internal leak or seal repair.
Difficulty steering or moving.	Damaged or worn wheels; Debris caught in wheels; Insufficient lubrication.	Inspect and replace damaged wheels; Remove debris; Lubricate wheel bearings and pivot points.
Oil leakage from pump.	Worn seals or gaskets; Loose fittings.	Tighten fittings; Contact service for seal/gasket replacement. (Note: AC pumps are designed to minimize leakage).

7. SPECIFICATIONS

Below are the general specifications for the CAARLA Manual Hydraulic Pallet Truck series. Specific dimensions and capacities may vary by model.

Model	Capacity (t)	Width (mm)	Length (mm)
DF1.68*550*1150	1.68	550	1150
DF2.0*550*1150	2	550	1150
DF2.0*685*1220	2	685	1220
DF2.5*550*1150	2.5	550	1150
DF2.5*685*1220	2.5	685	1220
DF3.0*550*1150	3	550	1150
DF3.0*685*1220	3	685	1220
AC2.5*540*1150	2.5	540	1150
AC2.5*685*1220	2.5	685	1220
AC3.0*540*1150	3	540	1150
AC3.0*685*1220	3	685	1220

General Product Specifications:

- **Product Name:** Manual Hydraulic Forklift
- **Minimum Order Quantity:** 1 set
- **Item Weight:** 110.2 pounds (50000 Grams)
- **Package Dimensions:** 1.18 x 0.79 x 0.39 inches (Note: These package dimensions seem unusually small for a

pallet truck and might refer to a component or packaging for shipping documents. Refer to the table above for actual product dimensions.)

- **Assembly Required:** No (typically, minor handle assembly might be needed)
- **Number of Pieces:** 1
- **Color:** One Color (typically yellow/orange)
- **Manufacturer:** CAARLA
- **ASIN:** B0DP2B9BQ5

8. WARRANTY AND SUPPORT

For warranty information, service, or technical support, please contact your authorized CAARLA dealer or the manufacturer directly. Keep your purchase receipt and product model number handy for faster assistance.

Customer Support: Refer to your purchase documentation or the seller's information for direct contact details.