



BENELUX
RETAIL

HAND PALLET TRUCK

Operator's Manual

2,5 and 3 Tonnes Capacity
Pallet Trucks



Design in accordance with EN ISO 3691-5 Standard

Warning!

READ THIS OPERATORS MANUAL BEFORE USING THE PALLET TRUCK

ALWAYS operate, inspect and maintain the pallet truck in accordance with this manual.

Failure to do so may result in property damage or personal injury.

This manual contains important safety, assembly, operation and maintenance information.

Keep for future reference for the life of the product.

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i. Notes:

1. Use, maintain and repair the pallet truck in accordance with this operator's manual.
2. Do not change the equipment on your pallet truck without ensuring its safety.
3. Do not use the pallet truck without reading the Safety Warnings in Article 11.

1. Application Range

- 1.1 The pallet truck is a transport vehicle with a low lift mechanism that restricts the movement of the palletized load. These kinds of vehicles have the feature of stable lifting, easy and safe operation.
- 1.2 The work area must be a flat surface that is not slippery, firm and free of potholes or obstacles.
- 1.3 The pallet truck must be used in sufficiently illuminated places. Ambient lighting should be at least 50 lux.
- 1.4 The working areas should be properly ventilated.
- 1.5 Protect the pallet truck against corrosion and dust. This vehicle is not designed to operate in wet weather conditions. Dry the pallet truck immediately in case of any rainy working condition.
- 1.6 This is a lifting device only and is not designed or intended to be used for any other purpose.
- 1.7 Do not use for:
 - a) Operations in severe conditions (e.g. extreme climates, freezer applications, strong magnetic fields etc.).
 - b) Operations subject to special rules (e.g. potentially explosive atmospheres, mines etc.).
 - c) Lifting of persons.

2. Main Features and Specifications

Models	25 / 30
Capacity (Kg)	2500 / 3000
Maximum Lift Height (mm)	200
Lowered Fork Height (mm)	85
Height Without Handle (mm)	431,5/421,5
Fork Length (mm)	1150
Fork Width (mm)	540
Steer Wheel Diameter (mm)	Ø 200/180
Fork Wheel Diameter (mm)	Ø 80/74
Noise Level (dB)	<70
Weight (kg)	52~74

3. Assembling and Disassembling of the Handle

3.1 Pull out the round pin (item 1) in Figure 1.

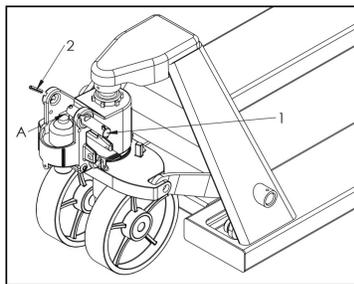


Figure 1

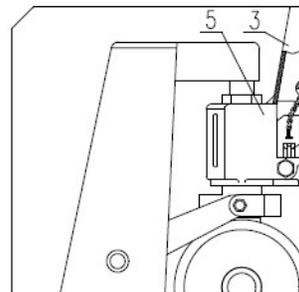


Figure 2

3.2 Put the handle (item 3) in the place indicated by A.

3.3 Assemble the handle and the pump body (item 5) with the round pin (item 1).

3.4 Put the handle chain (item 4) across the center hole of the round pin.

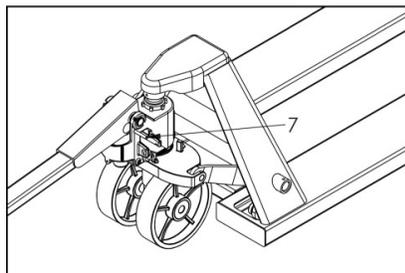


Figure 3

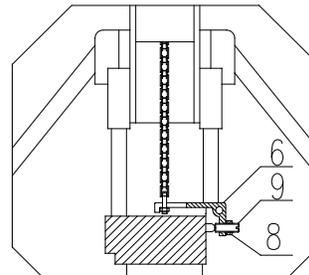


Figure 4

3.5. Take the nut on the end of the chain and hook it into the groove of the handle bar (item 6).

3.6. Move the handle to the parallel position and pull out the pin (item 7) (keep the pin for later use).

3.7. Disassemble the handle in the opposite direction of the assembling process.

4. Testing Process and Operating The Pallet Truck

4.1. After assembling the pallet truck, try to swing the handle, operate the control lever (item 10) in different positions to perform the Lift, Neutral and Lower functions (See Figure 5). Check if the different positions are normal.

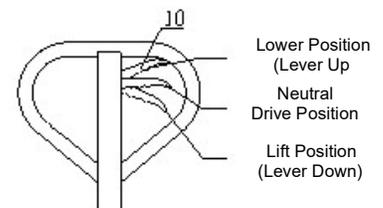


Figure 5

- 4.2. Use the screw (item 9) in Figure 4 to adjust the pallet truck. After lifting the pallet truck body, turn the screw a little counter-clockwise when it drops. Then repeat this process until the body of the pallet truck lifts normally. The outer hex nut (item 8) on the screw performs the locking function of the pallet truck. Before adjustment, you must unscrew the nut. Be sure to put the nut back after screwing in.
- 4.3. If you move the control lever (item 10) to the Lift Position and shake the handle bar, the pallet truck body will be lifted.
- 4.4. If you move the control lever (item 10) to the Neutral Position, the pallet truck will move in the drive position. In this case, the forks will not rise or fall.
- 4.5. When you lift the control lever (item 10) to the Lower Position, the forks of the pallet truck will lower.

5. Inspection Before Use

If the pallet truck has not been used for a long time, air may have entered the hydraulic system. To correct this, rotate the lever to the release position and shake the handle 4 to 6 times. This releases the start button. If necessary, the process can be repeated several times until the pallet truck operates normally.

6. Using the Pallet Truck

- Only trained personnel are to use this Manual Pallet Truck.
- Hand pallet truck is not to be used by an operator that is not physically capable of safely maneuvering the hand pallet truck with the load.
- Please read and understand the operator's manual before operating the pallet truck
- Do not operate the Manual Pallet Truck until you have checked its condition. Give special attention to the wheels, handle, forks, lift and lower control.
- Do not operate damaged or faulty trucks.
- Before using the pallet truck, make sure your load is below the capacity rate of the pallet truck. Do not overload the truck. Check capacity label and plate for carrying capacity information. Overloading may cause truck to perform incorrectly and could cause injury.
- Do not use the pallet truck where there is a risk of exceeding the rated capacity.
- Wear safety shoes with steel toe caps and gloves when operating the pallet truck.
- Stay away from pallet truck forks. Never put your hands or feet under the forks.
- Do not lift or carry loads on slopes or ramps.
- The correct way to load and operate the pallet truck is shown in Figure 6.
- Make sure the length of the forks match the length of the pallet.
- The capacity of the pallet truck assumes an evenly distributed load with the centre of the load being at the halfway point of the length of the forks. The ideal loading mode is that the gravity center of the load is at the central position of the fork.
- Use both forks to lift a load, never position the load on the fork tips.
- Operate the pallet truck on level, flat solid surfaces which are capable of supporting the fully loaded pallet truck.
- Operate at a controllable speed. When you get close to the target point, stop pushing the pallet truck and slow the speed of the pallet truck by pulling the handle towards you. Lower the forks when the pallet truck completely stops.
- Avoid sudden movements and manoeuvres.
- Always look in direction of travel. Use caution when visibility is obstructed by load.
- Do not load more than one pallet on the truck. Ensure the stability of the load.
- The pallet truck should be used, serviced and repaired according to the manufacturer and should not be modified or attachments fitted.
- Do not use the pallet truck in places insufficiently illuminated. Operating lighting must be minimum 50 Lux.
- Do not use the pallet truck as a vehicle jack.
- The extremity of fork arms should not be used as a lever to lift a load.
- Do not ride on the pallet truck.
- Do not carry passengers or lift personnel with the pallet truck.
- The pallet truck should not have direct contact with foodstuffs.
- The pallet truck should not be used in a potentially explosive atmosphere.
- The truck should be used, serviced and repaired according to the manufacturer and should not be modified or attachments fitted.
- Park the pallet truck out of traffic areas in a safe, level place with the forks fully lowered.

- The handle should be left in the up position to eliminate tripping hazards.

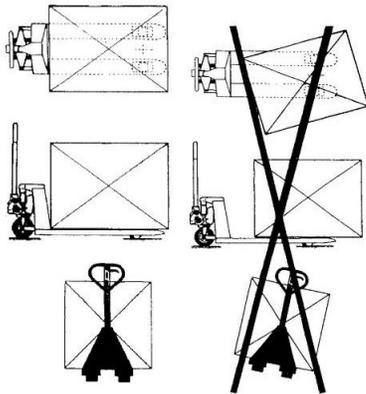


Figure 6

7. Loading Way and Capacity

The ideal loading mode is to place the center of gravity of the load at the central position of the forks. Do not place the load at the tip of the forks. The correct way to load and operate the pallet truck is shown in Figure 6. Avoid loading more than one pallet on the truck. Ensure the stability of the load. Load capacity is shown on the capacity label and name plate.

8. Transporting and Storage

For transporting the pallet truck, remove the load, lower the pallet truck to the lowest position and lash it safely with lashing straps. Cover the pallet truck with a waterproof tarpaulin during transportation to protect it from possible rainy and humid weather conditions.

For storage, remove the load, lower the pallet truck to the lowest position, grease all the mentioned greasing points and eventually protect the truck against corrosion and dust. Store the pallet truck out of traffic areas in a safe, level place with the forks lowered. Store in dry weather conditions. The storage areas should be properly ventilated. The handle should be left in the up position to eliminate tripping hazards. For long storage periods, you may disassemble the handle from the pallet truck body and cover the vehicle with a waterproof tarpaulin to protect it from possible humid weather conditions and dust.

9. Oil and Disposal of Waste Oil

9.1 Always wear gloves and goggles when dealing with hydraulic fluid

9.2 The oil capacity of the pump is about 400 ml (or ~0,40 kg) Please check the oil level every 3 months. Use the hydraulic oil type according to the information below.

Temperature	Type of Oil
-5° ~ 40°C.	#32 Hydraulic Oil
-35° ~ -5°C.	Low Temperature Hydraulic Oil

9.3 Removing Waste oil:

- Ensure forks are in lowered position.
- Lay pallet truck on either side. Position drain plug of hydraulic cylinder down. Place a wide pot under the hydraulic cylinder.
- Remove drain plug. Wait until all the oil is drained.
- For adding new oil, follow the steps in Article 9.4.

9.4 Adding hydraulic oil to the pump reservoir:

- a) Ensure forks are in lowered position.
- b) Lay pallet truck on either side carefully. Position drain plug of hydraulic cylinder up.
- c) Remove drain plug.
- d) Add necessary amount of hydraulic oil.
- e) Close and tighten the drain plug. Upright the pallet truck.

9.5 Waste hydraulic oil must be disposed of in accordance with applicable laws. It is forbidden to discharge the oil anywhere.

9.6 First Aid recommendations

- a) In case of contact with skin: Wash area with soap and water. Remove affected clothing and wash. If irritation persists, seek medical advice.
- b) In case of ingestion: Wash out mouth with clean water and seek medical advice. Do not induce vomiting.
- c) In case of contact with eyes: Thoroughly flush eyes with clean water for 5 to 10 minutes and seek medical advice.
- d) Other Situations: Seek medical advice immediately.

10. Troubleshooting Guide

No	Problem	Possible Cause	Action
1	The forks are unable to reach maximum height	Not enough hydraulic oil	Add oil to maximum level
2	Pallet truck does not completely lower	1. Too much hydraulic oil. 2. Rotating part is distorted and gets stuck	1. Pump off appropriate amount of hydraulic oil. 2. Replace the parts.
3	Pallet truck does not lower after lifting	1. The lowering device is abnormal 2. Components are damaged	1. Re-adjust the lowering device. See (Section 4.2) 2. Replace damaged parts
4	Hydraulic oil leaks	1. Seals worn or damaged. 2. Parts cracked or worn. 3. Loose joints	1. Replace seals. 2. Replace the damaged parts. 3. Tighten the loose joints.
5	The forks cannot be lifted up	1. No hydraulic oil. 2. The oil has impurities. 3. Air in the hydraulic oil.	1. Fill up the hydraulic oil 2. Change the oil. 3. Purge the air from the hydraulic oil.
6	The handle has large resistance or the pallet truck automatically descends after lifting	The valve is stuck	Take the valve out and clean the parts. Re-install the valve and parts to their original position.

11. Maintenance and Repair

- The forks should be unloaded and lowered in the lowest position when the pallet truck is out of work.
- Routine checks should be done daily and to be dealt with unusual cases immediately. Please do not use a defective pallet truck to prolong its service life. If there is any malfunction, please seek professional help.
- If you are not authorized and experienced, do not repair the pallet truck or try.
- Particular attention should be paid to the part between the wheel and the axle.
- To ensure that all wheels are working properly, make sure there are no threads or rags between them.
- Use motor oil or grease to lubricate all moveable parts. All bearings and shafts are prepared with long-life grease at the factory. Lubrication with long-life grease is needed at monthly intervals.

- After maintenance and repair, please fill and save the following list:

Maintenance and Repair Records:

Usage starting date:

Maintenance Date	Faults	Replaced Parts	Sign

6

12. Emergencies

In the event of an accident with the pallet truck, pre-intervention should be made by people who have received first aid training and medical assistance should be requested as soon as possible. In a possible fire, use foam, CO2, dry chemicals, sand, soil, water mist to extinguish the fire.

13. Disposal

- After placing out of service, the pallet truck parts must be disposed of or recycled in accordance with legal provisions.
- At the end of the useful life of the pallet truck or when it can no longer be repaired, drain off the oil and hand it over to an authorised agent and dispose of the oil and pallet truck in accordance with local regulations.

14. Safety Warnings

- 14.1 Please read and understand the operation and safety manual before operating this pallet truck.
- 14.2 Check all parts of the pallet truck before use. Make sure that the wheels, handle bar, forks and lower-lift control lever work properly.
- 14.3 Wear safety shoes with steel toe caps and gloves when operating the pallet truck. Use goggles during maintenance.



- 14.4 Do not lift or carry loads on slopes or ramps.
- 14.5 Avoid overloading the pallet truck beyond the rated capacity.
- 14.6 Do not use the pallet truck for transporting or lifting personnel.
- 14.7 Distribute the load evenly over the width and length of the forks to maintain good balance.
- 14.8 Use both forks to lift a load, never position the load on the fork tips.
- 14.9 Operate at a controllable speed.
- 14.10 Avoid sudden movements and manoeuvres.
- 14.11 Do not load more than one pallet on the truck. Ensure the stability of the load.
- 14.12 Stay away from pallet truck forks. Never put your hands or feet under the forks.
- 14.13 If you are not authorized and experienced, do not repair or try.
- 14.14 Park the pallet truck out of traffic areas in a safe, level place with the forks lowered.
- 14.15 The handle should be left in the up position to eliminate tripping hazards.

15. Guarantee

This hand pallettruck is guaranteed for 12 months after the date of invoice against defective materials and workmanship. The guarantee is only given if the hand pallet truck is used and serviced as instructed in this Manual. There is no guarantee for consumable parts. Any revision to be made by the user on the pallet truck will cancel the validity of the warranty. A proof of purchase must be provided. Seller should stamp and sign the Buyer's Purchase Record in Article 18 during the sales process to start the guarantee period. Buyer should keep this Record for future reference.

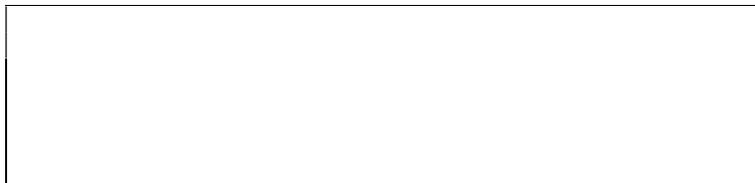
Should the pallet truck develop a fault, please return it to your nearest distributor or contact.

This guarantee will not be valid for any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any unauthorised person.

This guarantee is an additional benefit and does not affect your statutory rights.

16. Authorized Service

In any service need please return the pallet truck to your nearest distributor.



17. Declaration of Conformity

The undersigned Company declares under its sole responsibility that the machinery specified below satisfies the essential requirements of the EC Machinery Safety Directive 2006/42/EC which is apply to it.

Product Name
PALLET TRUCK

Product Type
PEDESTRIAN-PROPELLED PALLET TRUCKS

Models
2,5 and 3 tonnes capacity Pallet Trucks

Applicable Standards
EN ISO 12100 :2010;
EN ISO 3691-5:2015/A1:2020

18. Buyer's Purchase Record

Buyer's Name and Contact Details:	
Buyer's confirmation of receiving and reading the Operator's Manual before use:	Signature:
Serial Number:	Manufacturing Year:
Number of Units:	Date in Service:
Invoice Date:	Invoice Number:
Seller's Stamp and Sign:	



Figure 7. Handle Bar Assembly Drawing

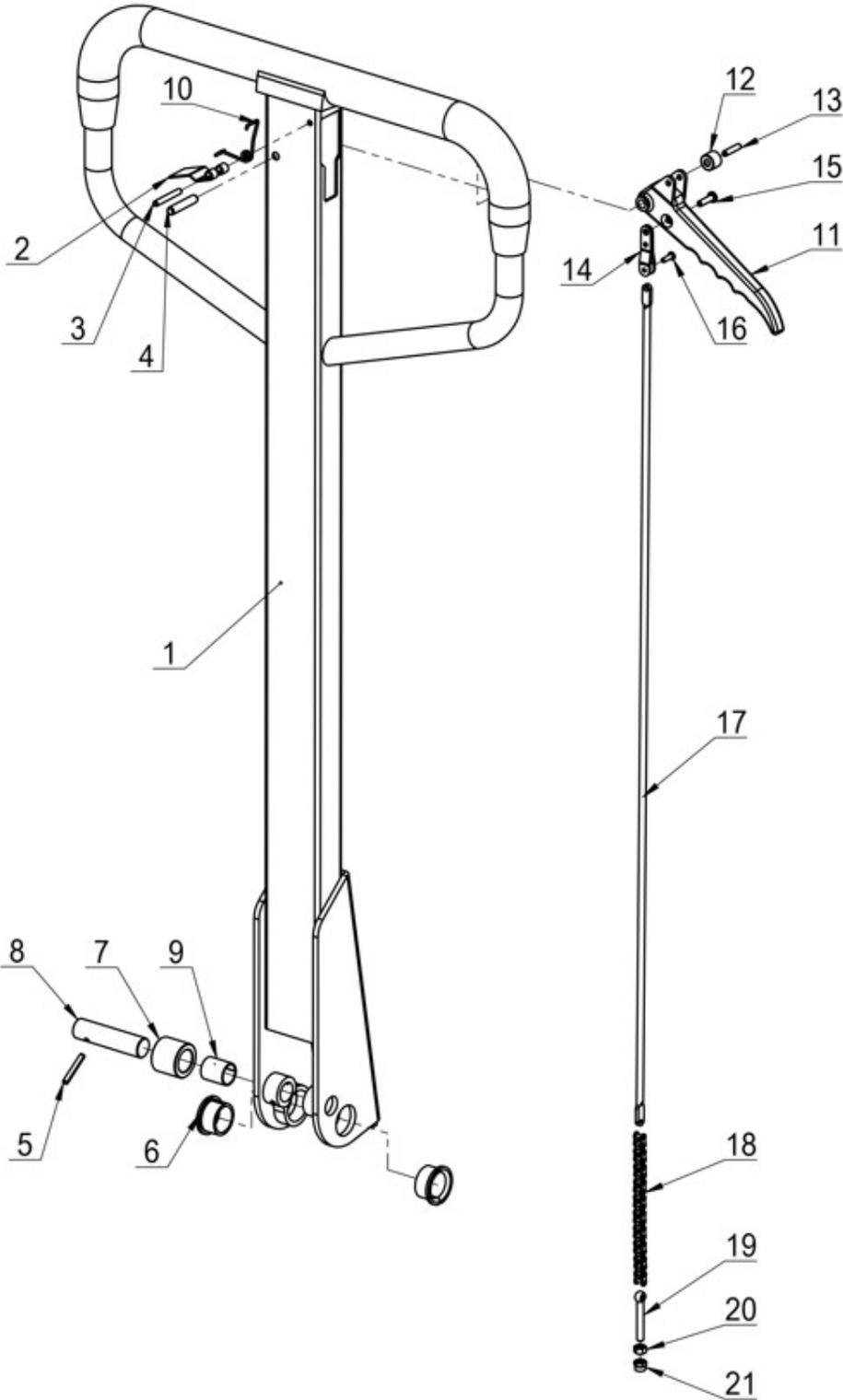


Table 1. Handle Bar Assembly Parts List (Figure 7)

Drawing Name	Drawing No	Code	Description
Handle assembly	1	H-01	Handle Bar
	2	H-02	Spring plate
	3	H-03	Pin
	4	H-04	Pin
	5	H-05	Pin
	6	H-06	Bush
	7	H-07	Pinch Roller
	8	H-08	Shaft
	9	H-09	Bush
	10	H-10	Torsional Spring
	11	H-11	Control Handle
	12	H-12	Pulley
	13	H-13	Pin
	14	H-14	Connection Strap
	15	H-15	Rivet
	16	H-16	Rivet
	17	H-17	Pull Rod
	18	H-18	Chain
	19	H-19	Eyelet Bolt
	20	H-20	Fastener Nut
	21	H-21	Hexagon Nut

Figure 8. General Assembly Drawing

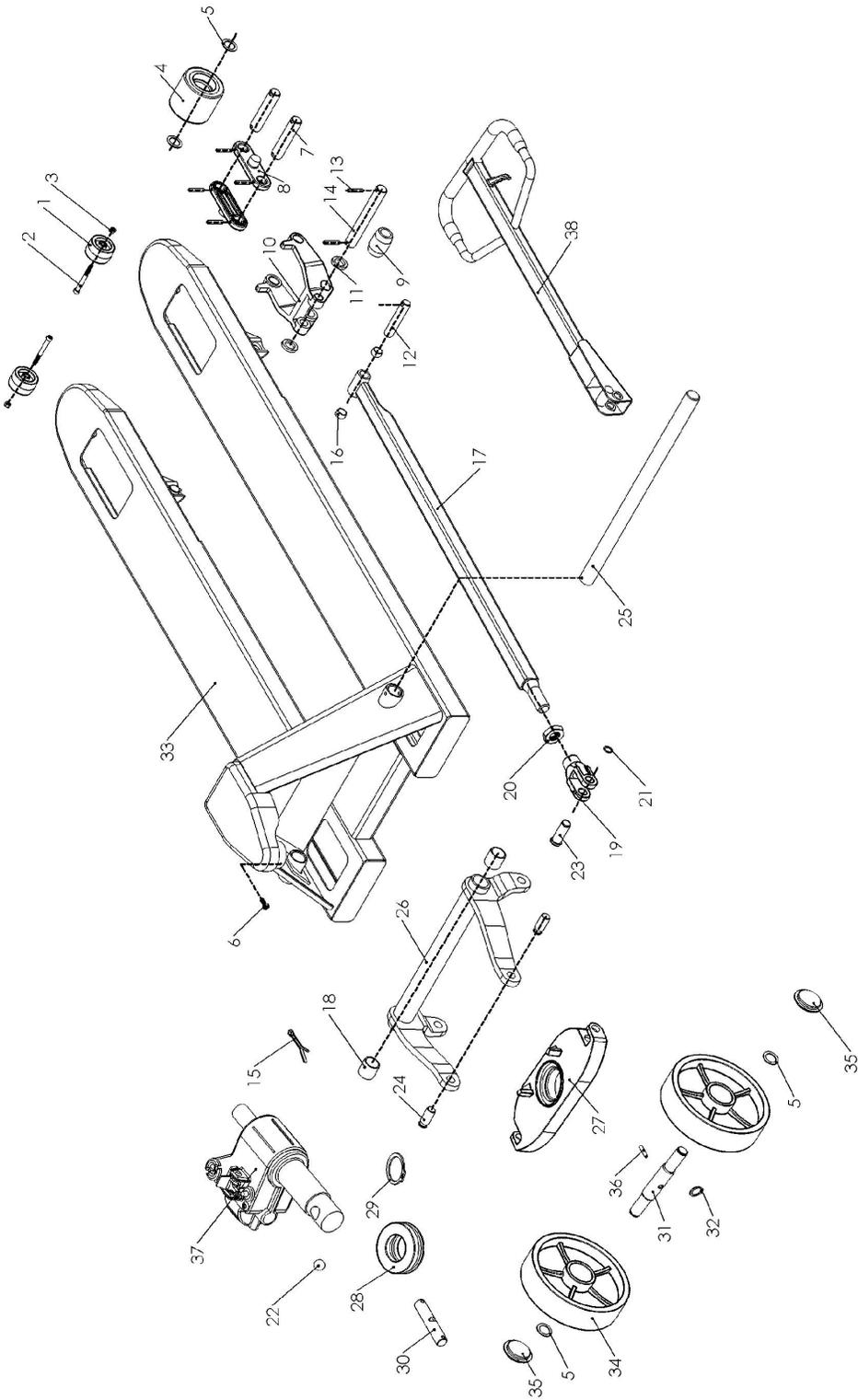


Table 2. General Assembly Parts List (Figure 8)

Drawing Name	Drawing No	Code	Description
General Assembly	1	01	Front Guide Roller
	2	02	Bolt
	3	03	Nut
	4	04	Load Roller (Red)
	4	04	Load Roller (White)
	5	05	Bearing
	6	06	Bolt
	7	07	Shaft
	8	08	Roller Side Plate
	9	09	Extending Roller
	10	10	Roller Fork
	11	11	Roll Ring
	12	12	Shaft (Small)
	13	13	Spring Pin
	14	14	Shaft (Big)
	15	15	Cotter Pin
	16	16	Spring Pin
	17	17	Axle
	18	18	Spring Pin
	19	19	Axle Joint
	20	20	Nut
	21	21	Circlip
	22	22	Ball
	23	23	Pin
	24	24	Shaft
	25	25	Shaft
	26	26	Rock Arm
	27	27	Pump Supporting Base
	28	28	Bearing
	29	29	Bearing Circlip
	30	30	Chain Shaft
	31	31	Steer Wheel Shaft
	32	32	Circlip
	33	33	Fork Frame
	34	34	Steer Wheel (Red)
	34	34	Steer Wheel (White)
	35	35	Dust Cover
	36	36	Shaft Pin
37	37	Pump	
38	38	Handle Bar	

Figure 9. Pump Assembly Drawing

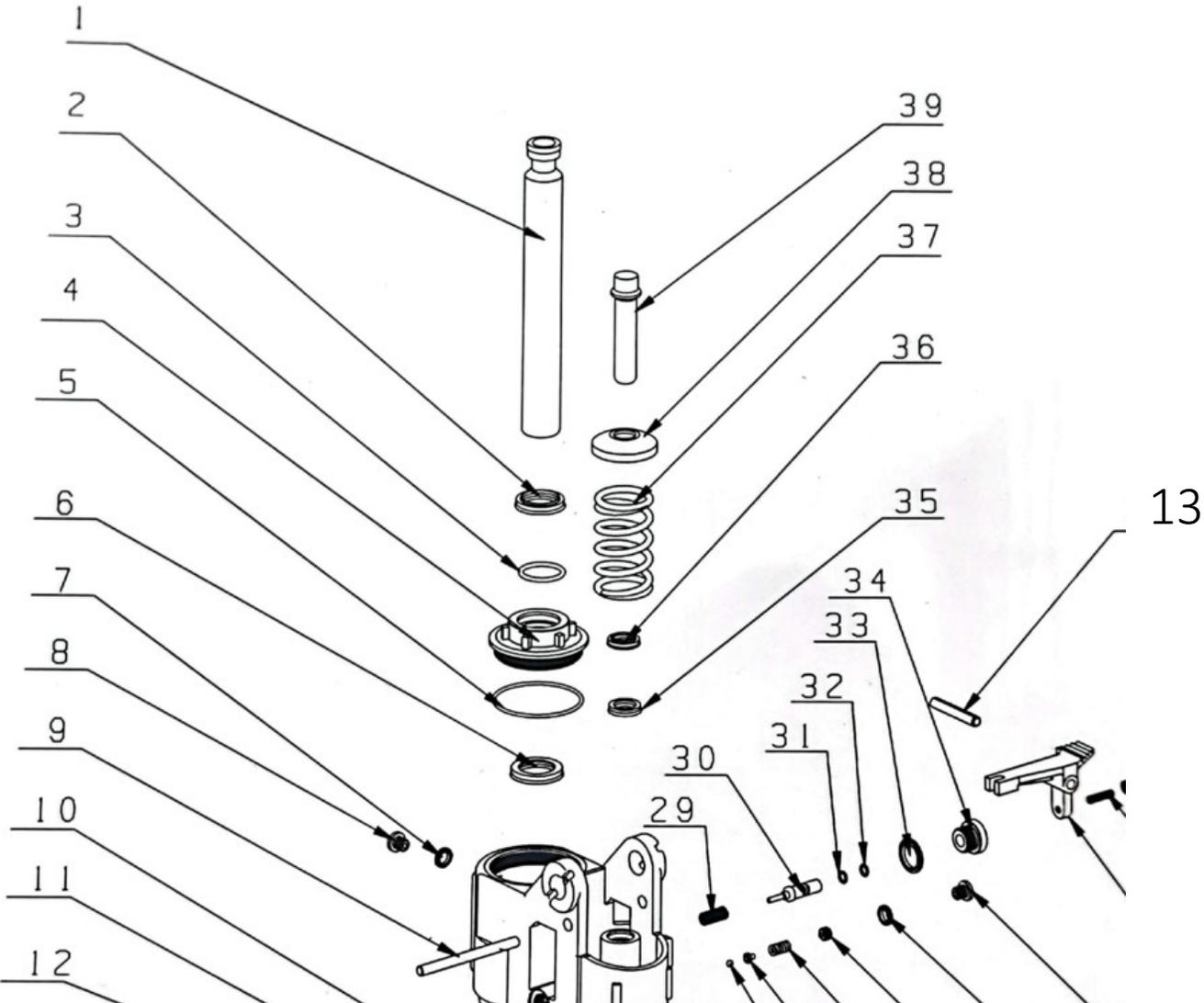


Table 3. Pump Assembly Parts List (Figure 9)

Drawing Name	Drawing No	Code	Description
Pump Assembly	1	P-01	Plunger Piston
	2	P-02	Dust Ring
	3	P-03	O-ring
	4	P-04	Guide sleeve
	5	P-05	O-ring
	6	P-06	Dust ring
	7	P-07	Combination ring
	8	P-08	Sealing screw
	9	P-09	Locking bar
	10	P-10	Balls
	11	P-11	Valve body
	12	P-12	Valve element
	13	P-13	Sealing screw
	14	P-14	Combination ring
	15	P-15	Universal spring
	16	P-16	Pump shell
	17	P-17	Balls
	18	P-18	Cylindrical head fixed
	19	P-19	Ball
	20	P-20	Ball seat
	21	P-21	Safety valve spring
	22	P-22	Sealing screw
	23	P-23	Combination ring
	24	P-24	Sealing screw
	25	P-25	Pedal
	26	P-26	Set screw
	27	P-27	Universal screw
	28	P-28	Spring pin
	29	P-29	Firing pin spring
	30	P-30	Fire pin
	31	P-31	O-ring
	32	P-32	O-ring
	33	P-33	Combination ring
	34	P-34	Fire pin seat
	35	P-35	Sealing ring
	36	P-36	Dust ring
	37	P-37	Universal spring
	38	P-38	Universal spring cap
	39	P-39	Small pump core

Table 4. Spare Part List (Figure 8)

Drawing Name	Drawing No	Code	Description
General Assembly	1	01	Front Guide Roller
	4	04	Load Roller (Red)
	4	04	Load Roller (White)
	8	08	Roller Side Plate
	9	09	Extending Roller
	17	17	Axle
	19	19	Axle Joint
	27	27	Pump Supporting Base
	34	34	Steer Wheel (Red)
	34	34	Steer Wheel (White)
	37	37	Pump
	38	38	Handle Bar