

Operating Instructions

HPT20S-Li

Hand Pallet Truck with Scale

46771209



These operating instructions must be read thoroughly before use and followed carefully.
Retain these operating instructions for future reference.
Translation of the original operating instructions.

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Thank you for choosing this Pallet Truck with Scale. This product is manufactured from high quality steel and is designed to provide durable, reliable, and efficient performance. For safe and proper operation, read and understand this instruction manual before using the Pallet Truck.

NOTE: All information in this manual is based on data available at the time of publication. We reserve the right to modify the product and its specifications at any time without prior notice. Contact the manufacturer or supplier for the latest product information and specifications.

1. About This Operating Manual and Description of Symbols

The information in this operating manual is identified as follows:



CAUTION Warning of personal injury or environmental damage.



IMPORTANT Warning of property damage.



NOTE Additional information.

NOTE:

- Numbers in illustrations (1, 2, 3, ...) refer to the corresponding numbers in parentheses (1), (2), (3), ... in the adjacent text and to item numbers in tables.
- Instructions that must be performed in a specific sequence are numbered (1., 2., 3., ...).
- Lists are identified with bullet points (•, •, ...).

2. Safety and Accident Prevention Instructions

2.1 General Safety Instructions

- This operating manual has been prepared to help you operate the Pallet Truck safely.
- Persons who are unfamiliar with these instructions must not operate the Pallet Truck.
- Read this operating manual completely before using the Pallet Truck for the first time. Pay particular attention to the safety instructions.
- This operating manual is intended for persons with basic technical knowledge of equipment such as that described here.
- If you have no experience with this type of equipment, seek assistance from experienced persons before use.
- Keep all documents supplied with the Pallet Truck for future reference. Retain the proof of purchase for possible warranty claims.
- If you lend or sell the Pallet Truck, provide all accompanying documentation with it.
- Follow the operating and maintenance instructions contained in this manual.
- Children should be supervised to ensure that they do not play with the Pallet Truck.
- Perform mechanical maintenance at the prescribed intervals and to the prescribed extent.
- After maintenance work, re-install all removed safety devices correctly. Before returning the Pallet Truck to service, a qualified person must inspect the safety devices and verify their proper function.

- Repair a defective Pallet Truck immediately to minimize damage and maintain safe operation.
- Never exceed the rated load capacity of the Pallet Truck.
- Do not operate the Pallet Truck on sloped or uneven surfaces. Always operate the Pallet Truck on a firm and level surface.
- Use extra caution when operating the Pallet Truck in unfamiliar environments or under unusual conditions.
- Do not modify the setting of the safety valve.
- Before each use, check that the Pallet Truck is in proper working condition. Inspect the wheels, handle, forks, and other visible components. In particular, check the hydraulic oil level and inspect for possible leaks.
- Fluids escaping under high pressure (hydraulic oil) can penetrate the skin and cause serious injury. Seek immediate medical attention if injured. Risk of infection.
- Before working on the hydraulic system, lower the forks completely and relieve all hydraulic pressure.
- Do not modify, alter, or retrofit the Pallet Truck without prior authorization from the manufacturer.

2.2 Task Specific Safety Measures



- Wear protective gloves when performing setup, maintenance, and cleaning work on the Pallet Truck to prevent injuries from sharp edges.



- Wear safety shoes while operating or working on the Pallet Truck.
- Before each use, perform a visual inspection followed by a functional check of the Pallet Truck to identify damage or worn components. Have any required repairs completed by trained personnel before operating the Pallet Truck.
- Before lifting the load, ensure that the release valve is closed.
- Regularly lubricate all moving parts of the hydraulic system.
- If the oil level is too low, refill the hydraulic oil and bleed the system before further use. Follow the instructions in this manual.
- The Pallet Truck may only be operated by persons who are at least 16 years old. An exception may apply when the Pallet Truck is used as part of vocational training under the supervision of an instructor.
- Never allow anyone to ride on or be transported by the Pallet Truck.
- Keep all persons at least 24" (600 mm) away from the Pallet Truck, forks, and load during lifting and transport operations.
- Distribute the load evenly across both forks.
- Position the load so that its center of gravity is centered between the forks.
- Do not place the entire load on a single fork.

3. Product Description

3.1 Intended Use

- The Pallet Truck consists of two rigid forks designed to engage a pallet. The forks are raised by the integrated hydraulic system through a pumping motion of the handle.
- When the handle is actuated to lower the forks, the hydraulic pressure in the cylinder is reduced, causing the forks to descend.
- In the neutral position of the handle, the selected fork height is maintained.
- The Pallet Truck is intended only for lifting and transporting stable loads, particularly palletized loads of various sizes.
- Never use the Pallet Truck to lift or transport people or animals.
- Never overload the Pallet Truck beyond its rated load capacity specified in the following specifications.
- Failure to comply with applicable regulations, the instructions in this operating manual, or the required maintenance procedures may result in damage for which the manufacturer cannot be held responsible.

3.2 Technical Parameters

Parameters	Values
Capacity	2000 kg (5000 lbs.)
Power Source	Charge: 5V 1A DC Operate: 3.7V DC
Environment	General purpose, dry
Operating Temperature	0°C to 40°C (32°F to 104°F)
Min/Max Fork Height	85-200 mm
Features Weighing Accuracy	±2.0 Kg for loading 2000 Kg
Fork Width	555 mm
Fork Length	1150 mm

4. Assembly Procedure

4.1 Installing the Indicator

Attach the indicator to the Pallet Truck chassis.

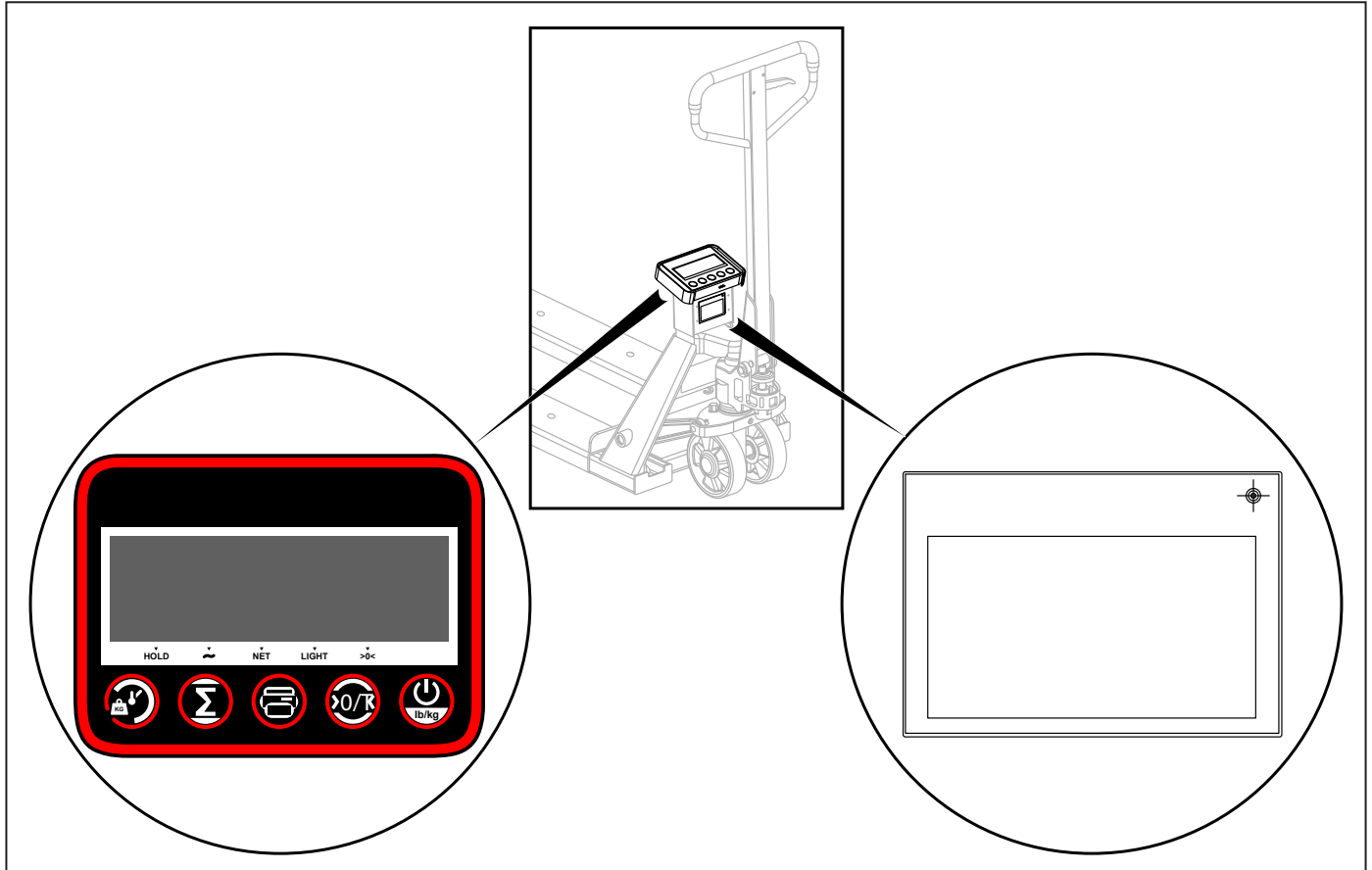


Figure 1 Installing the Indicator

4.2 Assemble the Tiller and Pump Unit

1. Insert the tiller into the right piston of the pump (58). Assemble the axle (5) onto the tiller, then tap the axle from right to left with a hammer until the tiller is securely connected to the hydraulic pump. (See Figure 2 on Page 8.)
 2. Put the fingertip control (19) in the lower position. Pass the adjusting nut (4), linking rod (3), and chain (2) through the hole in the axle (5).
 3. Press the tiller (11) down and remove the pin (60) that retains the spring.
 4. Put the fingertip control (19) in the lift position. Raise the lever rod (80) with the pin, then insert the linking rod (3) into the front slot of the lever rod (80).
-  **NOTE:** Ensure that the adjusting nut (4) remains underneath the lever rod.
5. Tap the spring pin (6) into the hole in the axle (5) with a hammer. The tiller is now assembled to the pump.

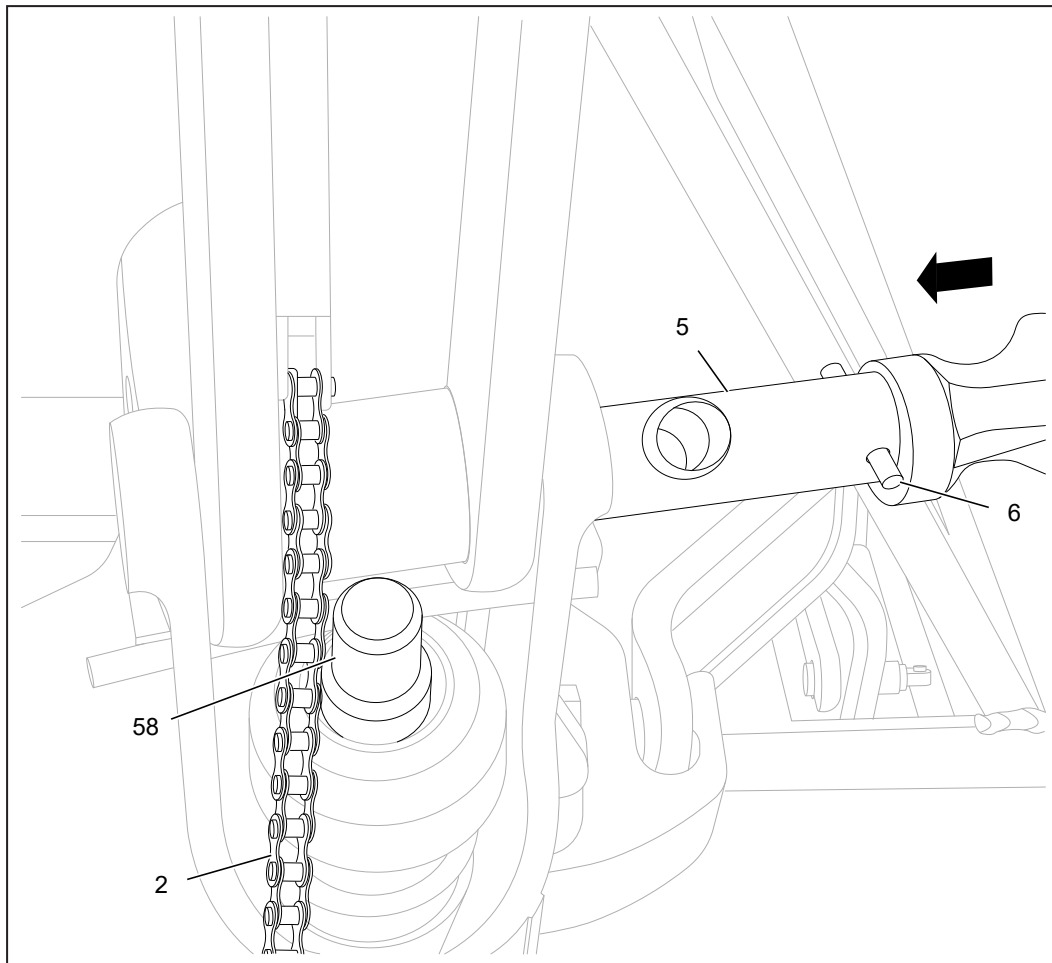


Figure 2 Assembling the Tiller and Pump Unit

4.3 Adjusting the Release Device

The fingertip control (19) on the tiller has three positions:

- Lift Position - Pull up the finger tip control.
- Neutral Position - Place the finger tip control in the center position.
- Lower Position - Push down the finger tip control.



NOTE: The three positions of the finger tip control have been adjusted before delivery. If the settings change for any reason, adjust them as follows:

1. Place the fingertip control (19) in the Neutral Position and swing the tiller up and down. The forks should neither lift nor lower.
 - a) If the forks lift, turn the nut (4) clockwise until the forks stop lifting.
 - b) If the forks lower, turn the nut (4) counterclockwise until the forks stop lowering.
2. Pull the fingertip control (19) up to the Lift Position and swing the tiller up and down. The forks should lift steadily. If the forks do not lift, turn the nut (4) counterclockwise until the forks begin to lift, then repeat Step 1.
3. Push the fingertip control (19) down to the Lower Position. If the forks do not lower, turn the nut (4) or screw (79) clockwise until the lifting control (19) lowers the forks. Then repeat Step 1 to check the Neutral Position and ensure that the nut (4) and screw (79) are properly adjusted.

5. Operating the Weighing Pallet Truck

5.1 Accurate Weighing

For accurate weighing results, place the load evenly on the forks and keep the Pallet Truck on a level surface. Avoid weighing on uneven ground, slopes, or surfaces exposed to excessive vibration. Operate the scale within the specified temperature range and protect it from moisture and direct water exposure. Refer to *Figure 3* for details.

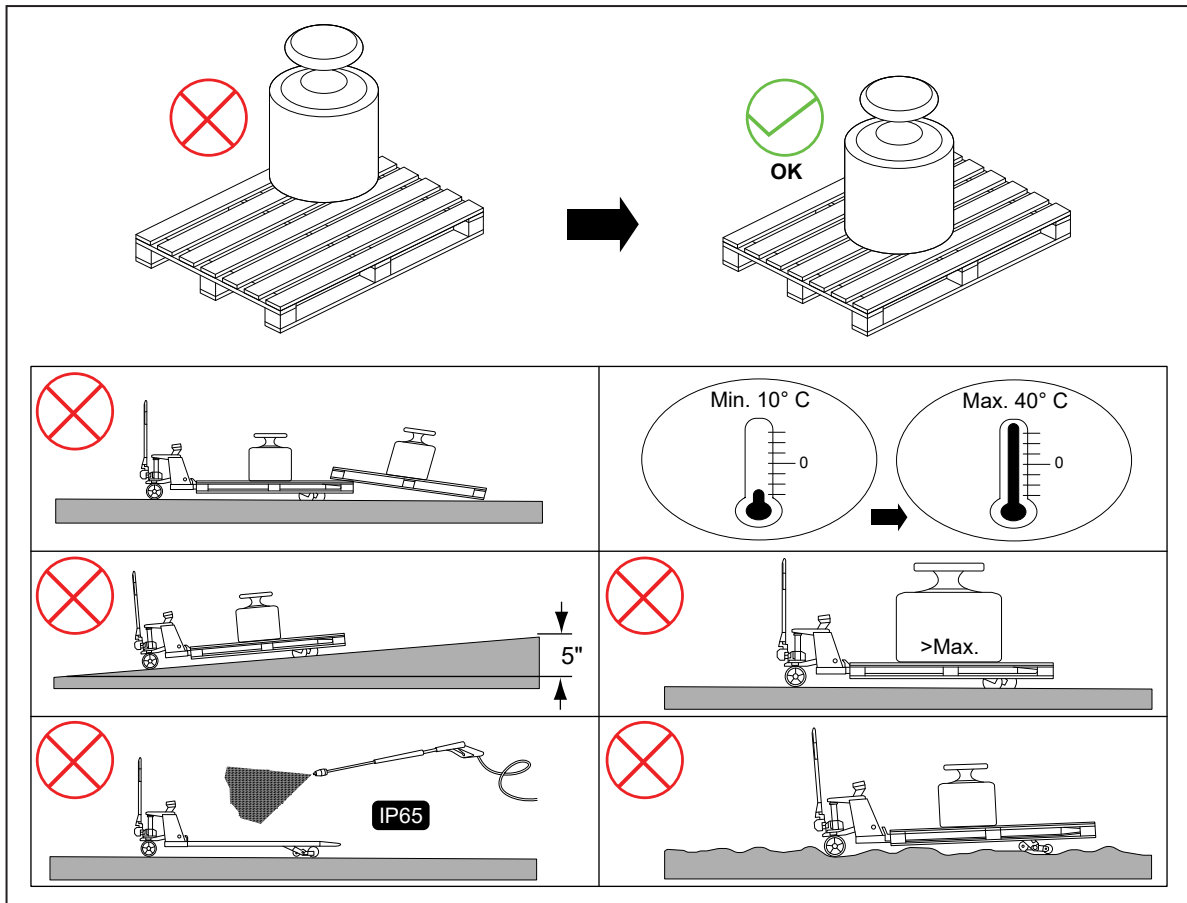


Figure 3 Accurate Weighing Guidelines

5.2 Net, Tare, and Gross Weighing

The tare function allows the weight of a pallet or container to be stored and deducted from the total weight. The display then indicates the net weight of the load. Gross weight (C) equals the net weight (A) plus the tare weight (B). Refer to *Figure 4* for details.

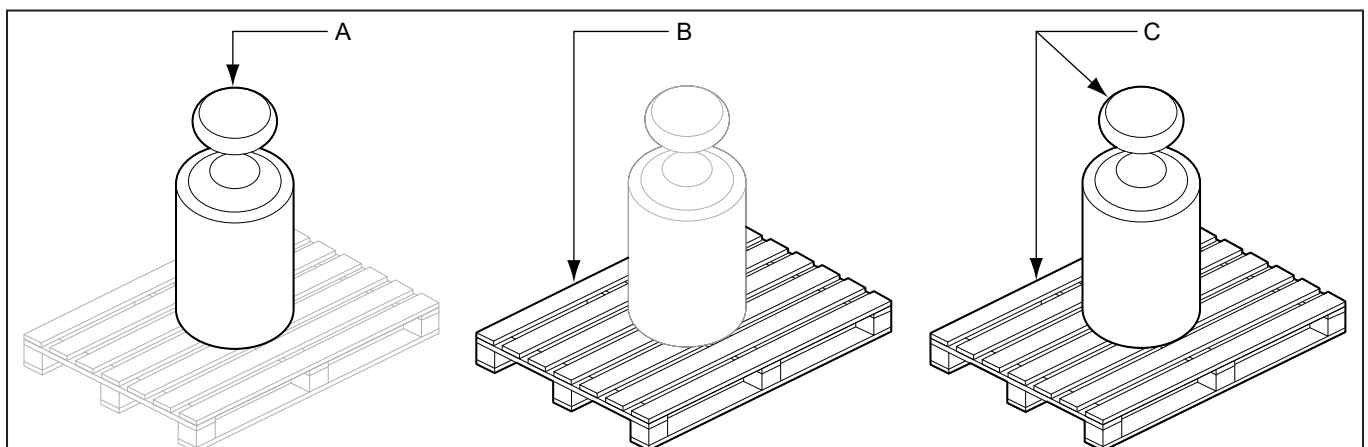


Figure 4 Net, Tare, and Gross Weight Calculation

5.3 Error Messages

Error messages may occur if the load is unstable, exceeds the weighing capacity, or falls outside the operating range of the scale. Remove the cause of the error and obtain a stable load condition before taking a weight measurement. Refer to *Figure 5* for details.

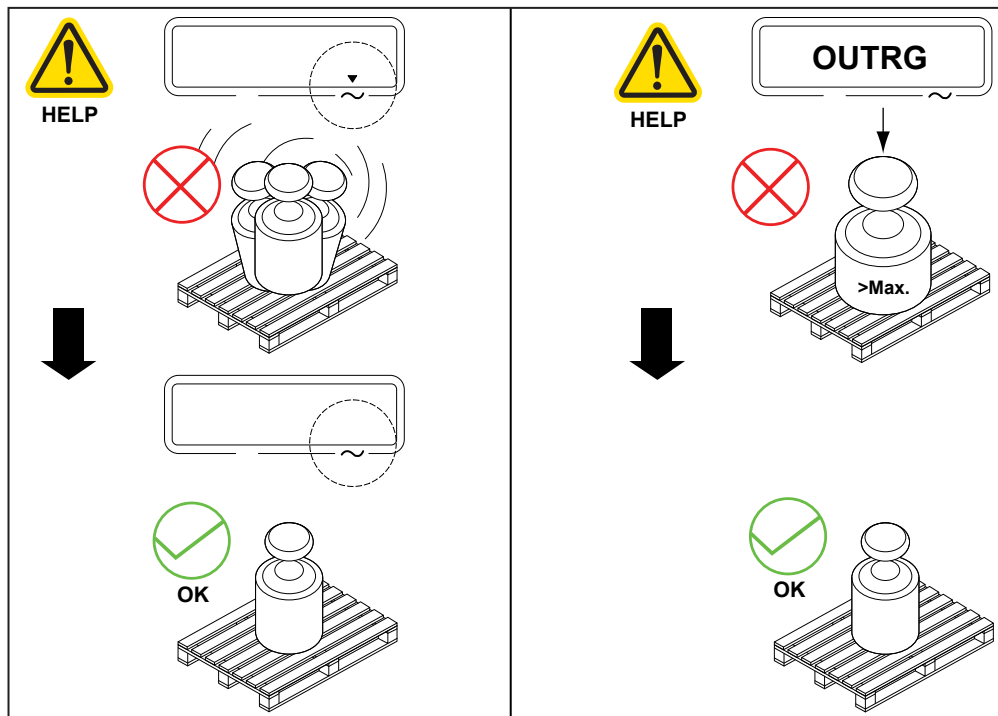


Figure 5 Common Error Conditions

5.4 Zero and Tare Functions

Use the Zero/Tare function to reset the display to zero or to subtract the weight of a pallet, container, or packaging material. This function enables the display of only the weight of the product being weighed. Refer to *Figure 6* for details.

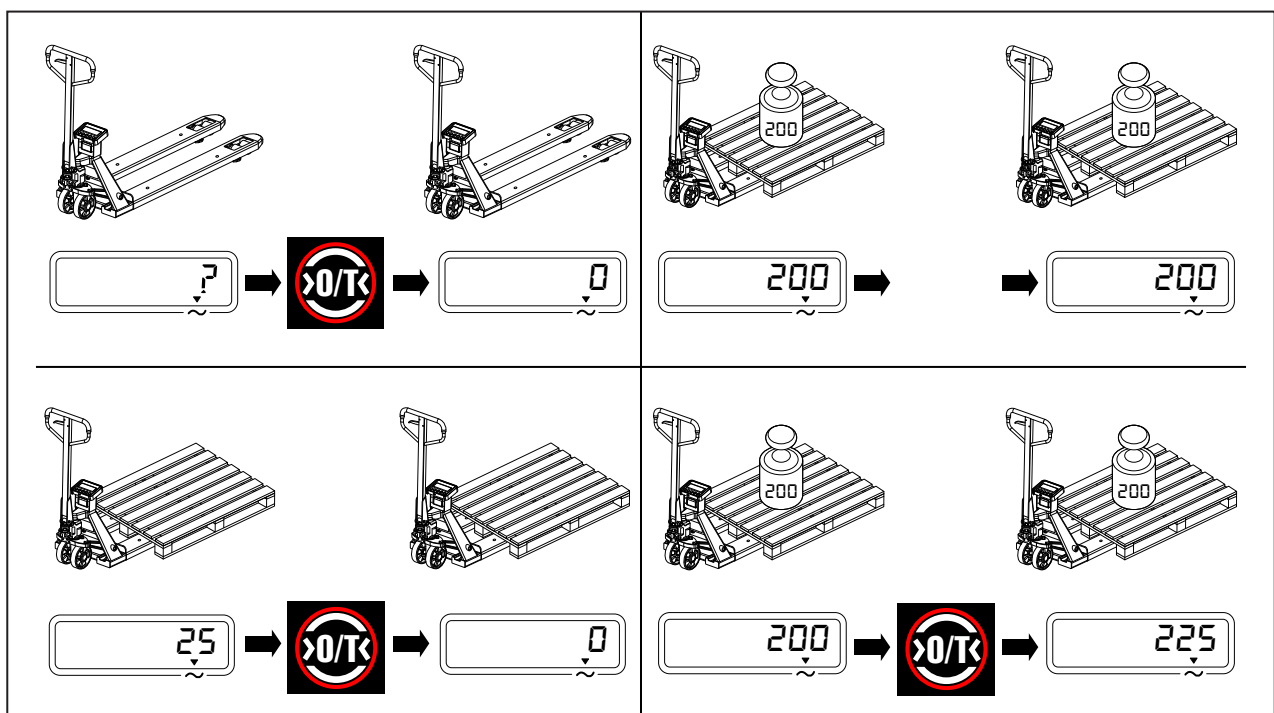


Figure 6 Zero and Tare Function Operation

5.5 Summation (Total) Function

The summation function stores individual weight measurements and adds them together. The display indicates the number of stored weighments and calculates the cumulative total weight. Refer to *Figure 7* for details.

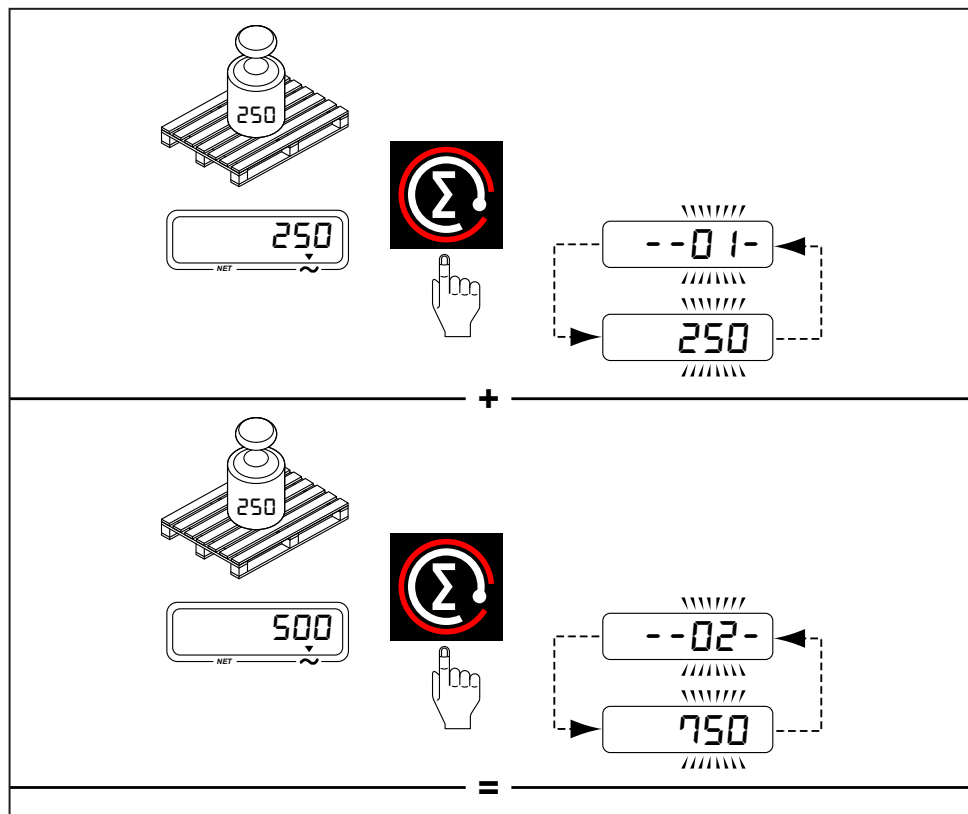


Figure 7 Summation (Total) Function

5.6 Printer Operation (Optional)

When equipped with the optional printer, weighing results and stored data can be printed directly from the indicator. Printed records provide a permanent record of weight measurements. Refer to *Figure 8* for details.

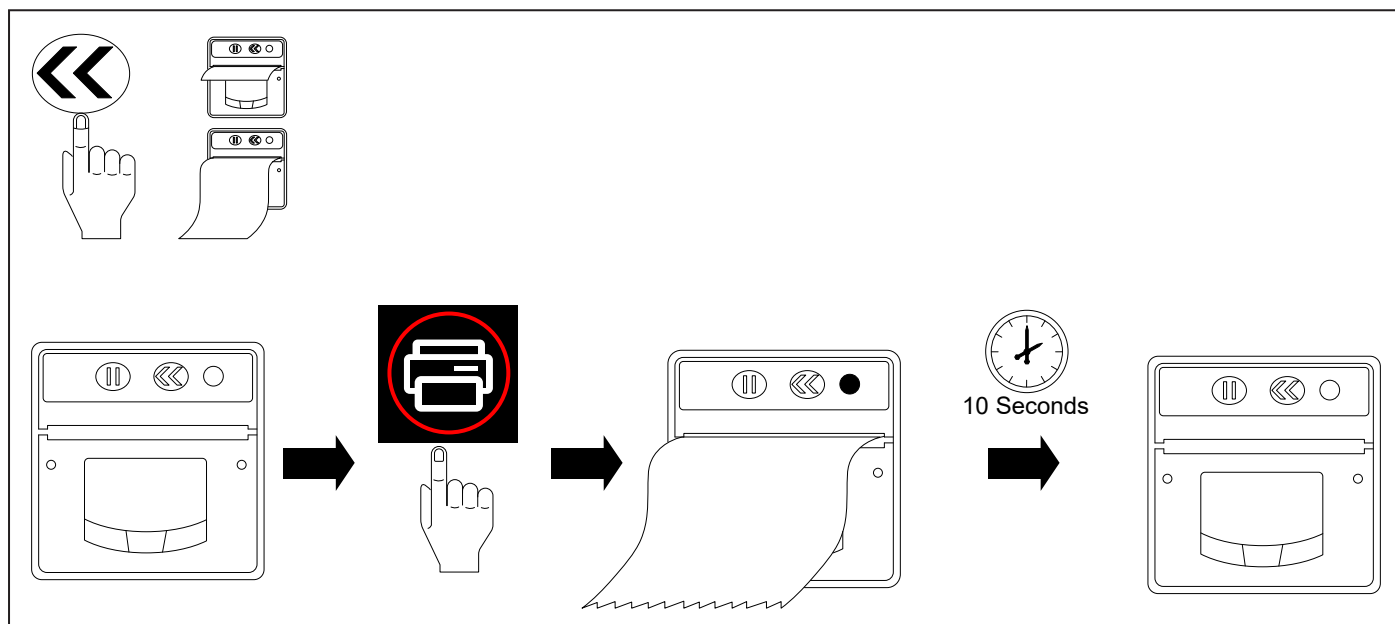


Figure 8 Printing Weighing Results

Specifications	Values
Printer	Thermal Printer
Function	Front side paper feed, easy to install paper
Paper	Thermal roll, roll diameter maximum 57 mm, width 30 mm
Resolution	8 dots/mm, 384 dots/line
Print Speed	Up to 65 mm/sec (Max.)
Temperature Range	0°C to 60°C
Dimensions	83 x 58 x 45.6 mm
Power Supply	DC 5V, DC 5V-9V (Optional)

5.7 Paper Replacement (For Printer)

Replace the paper roll when the printer no longer produces a clear printout. Install the new paper roll in the correct orientation and feed the paper through the printer before closing the cover. Refer to *Figure 9* for details.

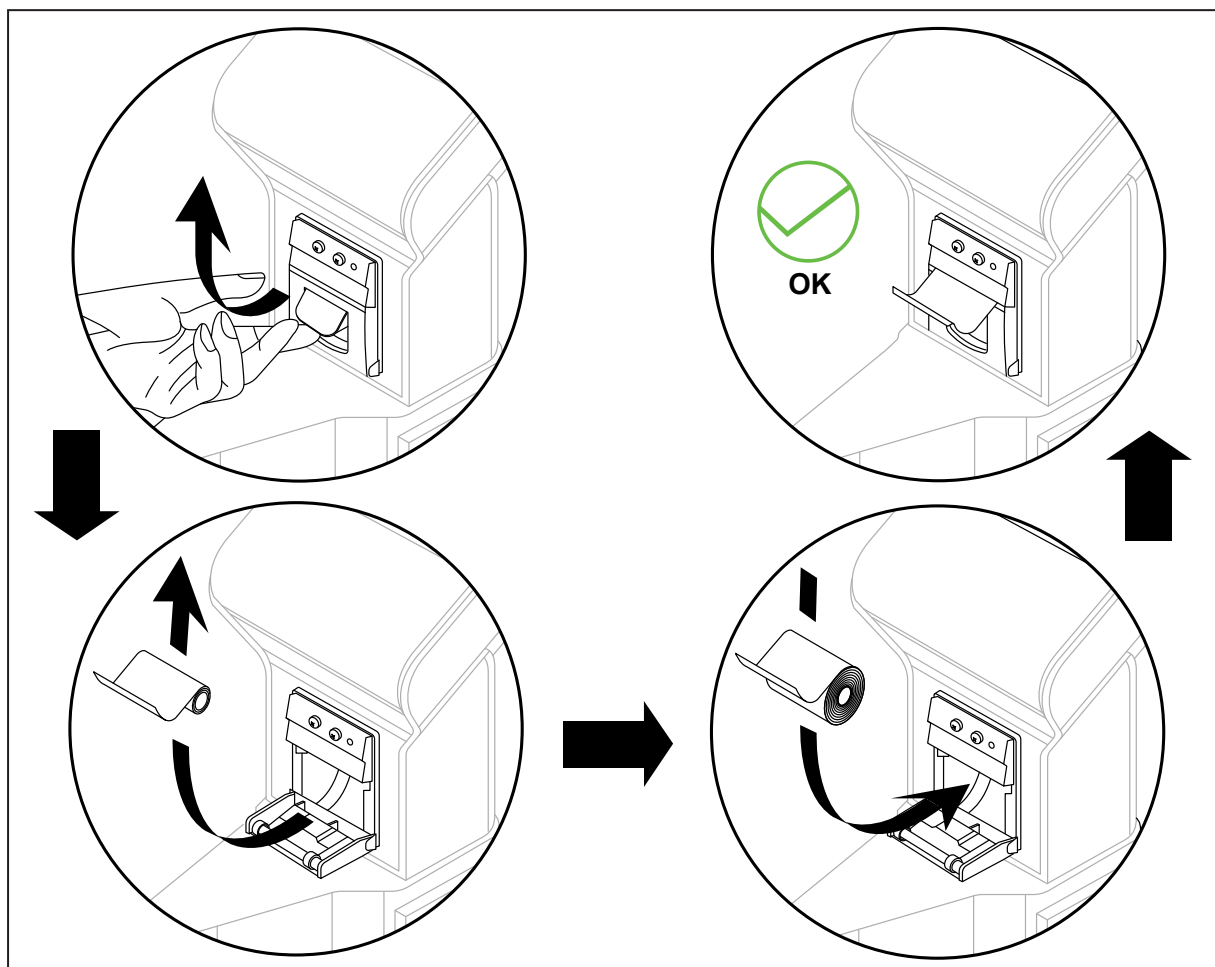


Figure 9 Printer Paper Replacement

6. Display Functions

6.1 Operating Instructions

The device has five types of cursors:

- Hold -Lock cursor
- ~ -Dynamic cursor
- Net -Net weight cursor
- Light -Backlight cursor
- >0< -Zero cursor

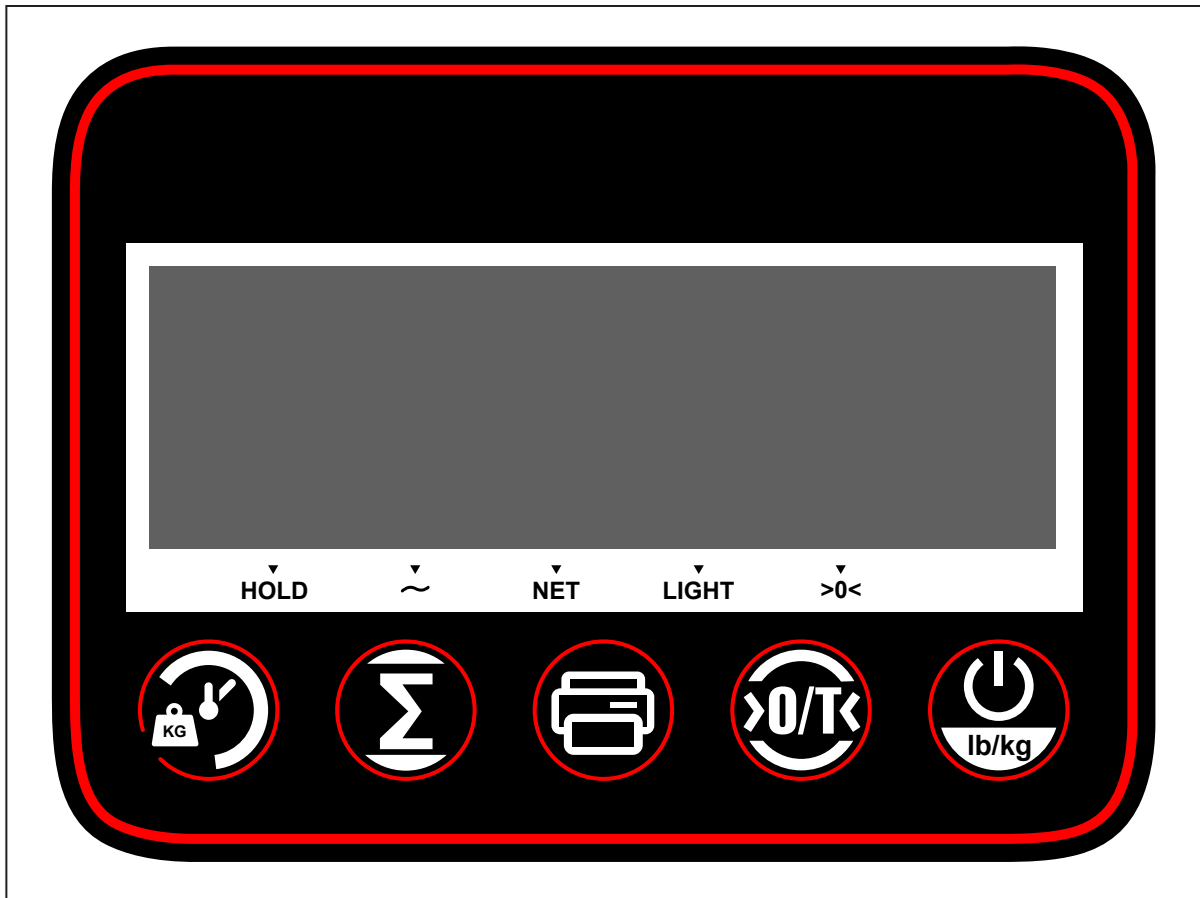


Figure 10 Indicator Display with Buttons

The device also has five buttons:

- Hold
- Sum
- Print
- Zero
- ON/OFF

Depending on the function to be performed, the buttons may require a short press, a long press, or a combination of button presses.

6.2 Display

Place the goods on the forks. The weight will be displayed after approximately 1 second. When the dynamic cursor (the inverted triangle above the "~" symbol) disappears, the value displayed on the screen is the weight of the goods.

6.3 Button Function Description

Button	Operation	Function
Hold 	Short Press	Locks or unlocks the weight value displayed on the screen. In normal weighing mode, press the Hold button once to lock the displayed weight. The lock cursor appears on the display. Press the Hold button again to return to normal weighing mode. The lock cursor disappears. While the weight is locked, functions such as Tare, Sum, and Zero are unavailable.
	Long Press	Enters the function mode or calibration setting mode.
Sum 	Short Press	In normal weighing mode, wait until the dynamic cursor disappears and the displayed value becomes stable. Press the Sum button to add the displayed weight to the accumulated total. The accumulation count increases by one. The display then alternates between the accumulation count and the accumulated total weight. Remove the goods from the forks and wait until the display returns to zero before placing the next load to continue accumulating weights. When the forks are empty, press the Sum button to view the current accumulation count and accumulated total weight.
	Long Press	Exits the summation function and returns to normal weighing mode.
Print 	Short Press	If equipped with a printer module, prints the weighing result currently displayed on the screen.  NOTE: Do not remove the goods during printing. Otherwise, the printed result may show the weight after the goods have been removed.
	Long Press	Enters the time and date setting mode.
Zero 	Short Press	Clears the displayed weight value when permitted by the operating conditions.
	Long Press	In the gross weight state, tares the current weight and switches the device to the net weight state.
On/Off 	Long Press	Powers the device ON when it is in the OFF state.
	Short Press	Powers the device ON when it is in the OFF state. Switches the weight unit when the device is ON.
	Long Press	Powers the device OFF when it is in the ON state.

6.4 Calibration

Use the calibration function if the weighing results are inaccurate. Calibration is performed in kilograms (kg). Perform the calibration procedure only once at a time.

Calibration Procedure:

1. Power ON the device and allow the self check to complete. Wait until the display shows 0000.
2. Place a prepared calibration weight of 1000 kg or 2000 kg on the forks.
3. Press and hold the Hold button to enter the function mode. The display shows 01.
4. Press the Sum button three times until the display shows 04, which is the calibration mode.
5. Press the Hold button to enter the calibration mode. The display flashes 998, 1998, or another value.
6. Adjust the displayed division value as follows:
 - a. Short press the Sum button to increase the division value.
 - b. Short press the Print button to decrease the division value.
 - c. Press and hold the Sum button to increase the value division rapidly.
 - d. Press and hold the Print button to decrease the value division rapidly.
7. Adjust the displayed division value to match the calibration weight (1000 kg or 2000 kg).
8. Short press the Hold button to confirm the setting and exit the calibration mode.

The calibration is now complete.



NOTE: At any time during calibration, press and hold the On/Off button to exit the calibration mode. An incomplete calibration procedure may cause the scale to weigh inaccurately or prevent normal weighing operation.

6.5 Factory Settings

Restoring the factory settings resets the device to its default configuration and clears the current calibration data.

Restore Factory Settings

1. Press and hold the Hold button to enter the function mode. The display shows 01.
2. Short press the Sum button twice until the display shows 03, which indicates the factory settings mode.
3. Press the Hold button. The device automatically exits to the weighing mode and restores the factory settings.

After the factory settings are restored, the current calibration data is cleared and the device returns to the factory default values.

Due to variations between Pallet Trucks, the factory default values may differ from the actual weighing values. If a weighing deviation occurs after restoring the factory settings, perform the calibration procedure described in *Section 6.4*.

6.6 Time and Date Setting

1. Press and hold the Print button to enter the time and date setting mode. The display shows 0-XX.
2. When 0-XX is displayed, the device is in the year setting mode. Press the Sum button to increase the value and press the Print button to decrease the value. Short press the Zero button to confirm the setting and proceed to the next item.
3. Set the year, month, day, week, hour, minute, and second in sequence.
4. After the second is set, the device automatically exits the setting mode.

Display	Setting
0-XX	Year
1-XX	Month
2-XX	Day
3-XX	Week
4-XX	Hour
5-XX	Minute
6-XX	Second

7. Additional Features

7.1 Auto Off

- If the displayed value remains unchanged and no operation is performed for 3 minutes, the scale automatically powers OFF. Press the On/Off button to power the scale ON.
- The auto off time is a factory setting and cannot be adjusted.

7.2 Backlight

- The backlight automatically turns ON when the displayed value changes or when any button is pressed.
- The backlight automatically turns OFF after 10 seconds of inactivity. The backlight timeout is a factory setting and cannot be adjusted.

8. Maintenance

8.1 Maintenance Instructions

- Maintenance and repair work must be performed only by qualified personnel.
- Use only original replacement and wear parts.
- Check fasteners regularly and tighten them as required.



WARNING: Do not place any part of your body between moving components.



IMPORTANT: Failure to follow the lubrication schedule may result in equipment damage and impaired operation.

8.2 Hydraulic Oil

Select the hydraulic oil according to the operating environment temperature:

- Use ISO VG46 hydraulic oil when the ambient temperature is between 0°C and +45°C.
- Use ISO VG32 hydraulic oil when the ambient temperature is between -15°C and 0°C.



NOTE: Replace the hydraulic oil every 6 months.

8.3 Removing the Air from the Pump

- Air may enter the hydraulic pump during transportation and cause improper hydraulic operation, preventing the forks from lifting.
- To remove air from the pump, move the fingertip control (19) to the lower position, then move the tiller up and down several times.

8.4 Daily Inspection and Maintenance

- Perform a daily inspection of the Pallet Truck with Scale to minimize wear and ensure proper operation.
- Pay special attention to the wheels and axles. Remove any thread, rags, or other debris that may become wrapped around the axles and interfere with wheel rotation.
- When work is complete, unload the forks and lower them to the lowest position.

8.5 Lubrication

- All bearings and shafts are lubricated with long life grease at the factory.
- Apply long life grease monthly or whenever the lubrication points have been thoroughly cleaned.

9. Storage

1. Always store the Pallet Truck in a dry, frost free location.
2. Before placing the Pallet Truck into storage, inspect its condition and perform the required maintenance to ensure it is ready for service when returned to operation.

10. Troubleshooting

No	Trouble	Cause	Corrective Action
1	The forks cannot reach the maximum lifting height.	The hydraulic oil is not enough.	Fill the hydraulic system with hydraulic oil.
2	The forks cannot be lifted.	There is no hydraulic oil.	Fill the hydraulic system with hydraulic oil.
		The hydraulic oil contains impurities.	Replace the hydraulic oil.
		The nut (4) is adjusted too high, causing the pumping valve to remain open.	Adjust the nut (4) or screw (79).
		Air has entered the hydraulic oil.	Remove the air from the hydraulic system (See Section 8.2.)
3	The forks cannot be lowered.	The piston rod (93) or pump (82) is deformed due to uneven loading or overloading.	Replace the piston rod (93) or pump (82).
		The forks have been kept in the raised position for an extended period, causing the exposed piston rod to rust or jam.	Keep the forks in the lowest position when not in use and lubricate the piston rod regularly.
		The nut (4) or screw (79) is not in the correct position.	Adjust the nut (4) or screw (79).
4	Hydraulic oil leakage.	Sealing parts worn or damaged.	Replace the sealing parts.
		A component is cracked or excessively worn.	Replace the damaged component.

5	The forks lower without operating the release valve.	Impurities in the hydraulic oil prevent the release valve from closing properly.	Replace the hydraulic oil.
		A component in the hydraulic system is cracked or damaged.	Replace the damaged component.
		Air has entered the hydraulic oil.	Remove the air from the hydraulic system (See Section 8.2.)
		Sealing parts are worn or damaged.	Replace the sealing parts.
		The nut (4) or screw (79) is not in the correct position.	Adjust the nut (4) or screw (79).
6	Abnormal scale operation.	The bolts (54) contact the chassis (23).	Adjust the bolts (54).
		The cover plate welding (53) contacts the chassis (23).	Lift and reposition the platform.
7	Nothing is displayed on the screen.	The battery charge is too low.	Charge the battery or replace it with a new battery.

 **NOTE:** Do not attempt to repair the Pallet Truck unless you are trained and authorized to perform the repair.

11. Disposal

- Proper separation and environmentally responsible disposal of materials promotes recycling and the recovery of valuable resources. At the end of its service life, dispose of the Pallet Truck and all associated components, such as lubricants, packaging materials, and wear parts, through appropriate recycling and waste collection systems.
- The packaging Pallet Truck, and accessories are made of recyclable materials and should be disposed of accordingly.
- Ensure that the Pallet Truck is rendered inoperable before disposal.



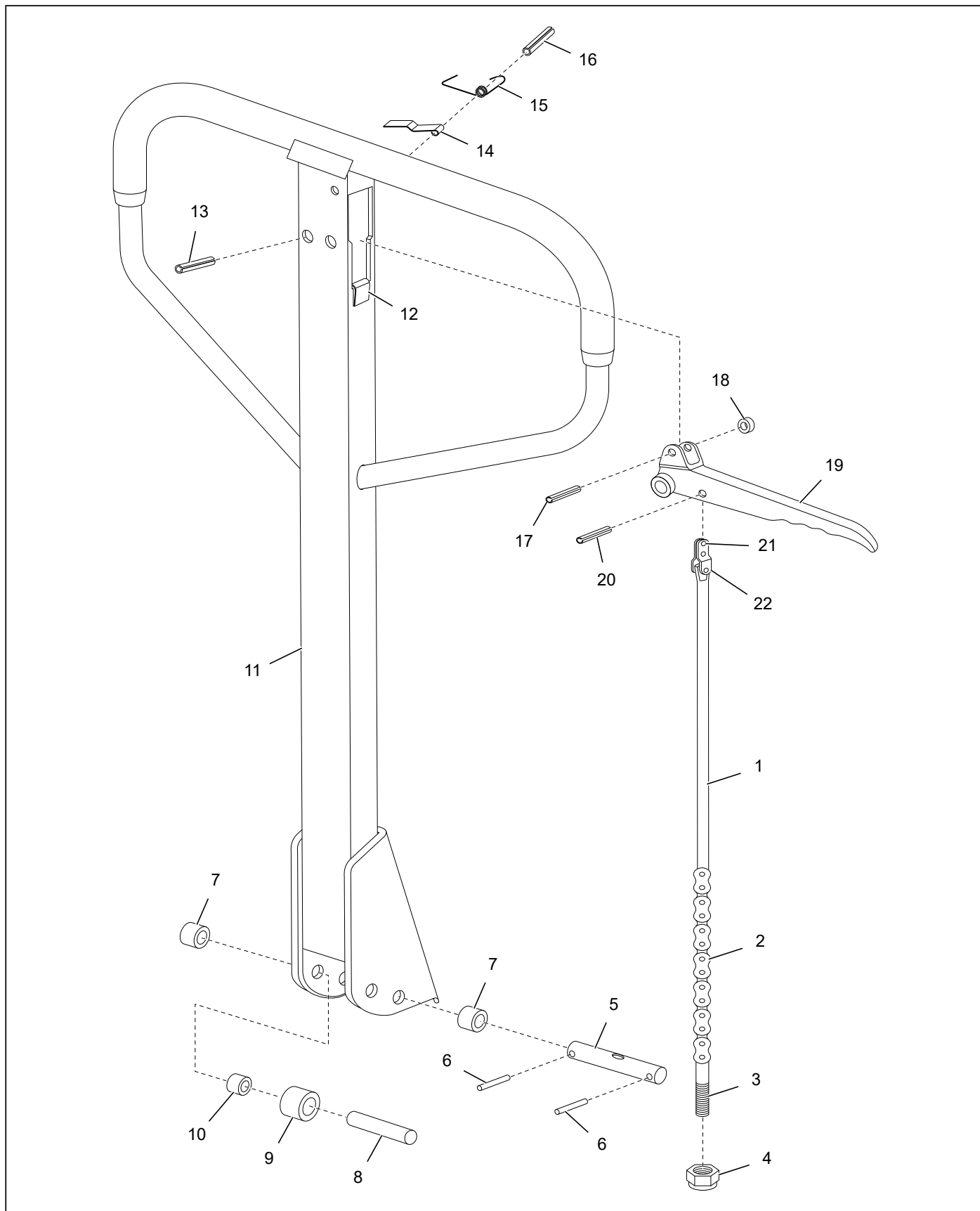
WARNING: If you do not have the necessary technical knowledge, have a qualified professional perform the disassembly and disposal. Risk of injury.



IMPORTANT: Always comply with local disposal regulations.

12. Parts List

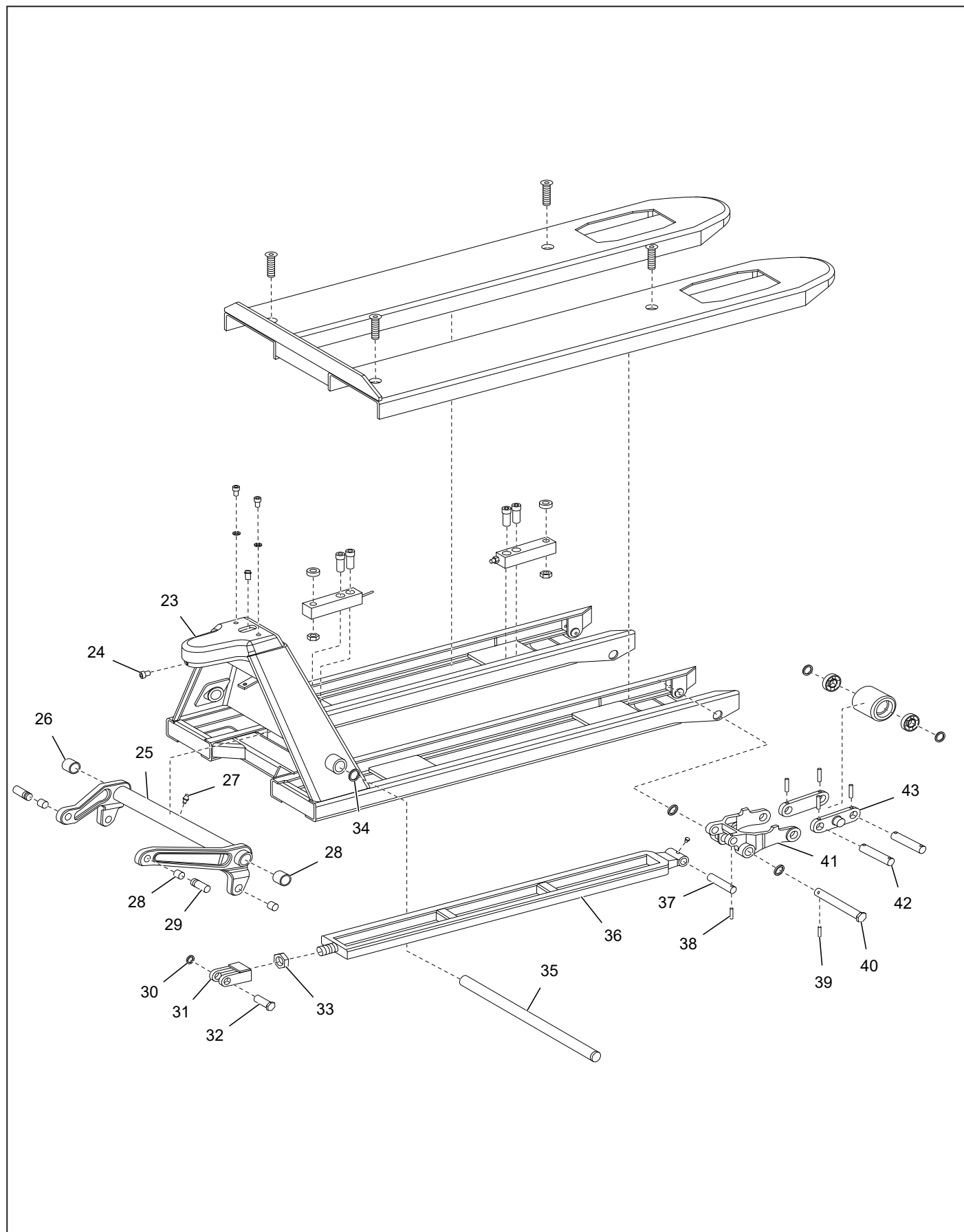
12.1 Tiller Assembly Parts



12.1 Tiller Assembly Parts List

Ref #	Part Number	Drawing Number	Description	Qty.
1	300511020003	ACA20.2-4	Linking Rod Ø6 x 670	1
2	301011020009	GB/T 1243 2006	Roller Chain 04C-1-17	1
3	301011020006	DFA25.3-10	Short Linking Rod	1
4	910300500002		Nut GB889.1-M5- 10	1
5	300511020002	ACA20.2-3	Axle Ø20 x 103	1
6	910600400027		Cylindrical Spring Pin 5 x 35	2
7	940500200006	QB048.01.2 022.15	Bushing (With Shoulder) Ø20 x Ø22 x 15-SF-1	2
8	300511020000	ACA20.2-1	Wheel Axle Ø15 x 60	1
9	300511020001	ACA20.2-2	Pinch Roller Ø24 x Ø17 x 36	1
10	940500100003	QB047.01.1517.15	Bushing Ø15 x Ø17 x 15- SF-1	2
11	300511010000	ACA20.2.1	Tiller Bar Welding (Rubber Tiller Head)	1
12	301011020007	DFA25.3-11	Rubber Part	1
13	910600400038		Cylindrical Spring Pin 6 x 30	1
14	302511020000	DF25.3-7/B	Folder	1
15	301011020005	DFA25.3-9	Spring Ø6.6 x Ø1.6 x 3.6	1
16	910600400015		Cylindrical Spring Pin 4 x 30	1
17	910600400011		Cylindrical Spring Pin 4 x 20	1
18	301011020004	DFA25.3-8	Roller Ø12 x Ø4.5 x 10	1
19	301011020002	DFA25.3-6	Finger Tip Control	1
20	910600400009		Cylindrical Spring Pin 4 x 14	1
21	301011020001	DFA25.3-5	Linking Plate	1
22	910500400001		Cone Head Rivet GB868-4 x 10	1

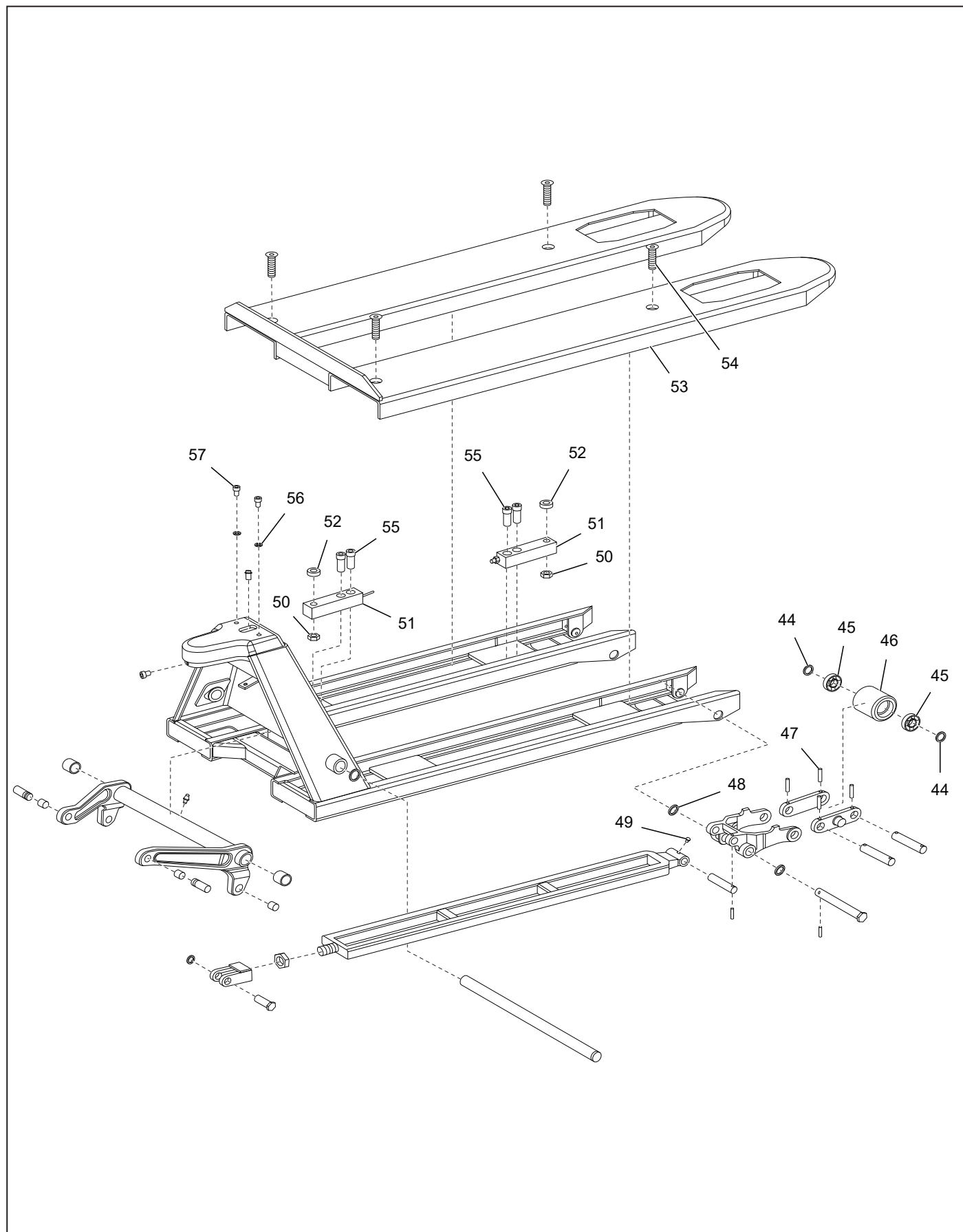
12.2 Chassis Assembly Parts



12.2 Chassis Assembly Parts List

Ref #	Part Number	Drawing Number	Description	Qty.
23	302872010004		Chassis Welding (85 mm 555 x1150)	1
	303302072006		Forks Unit for Economical Truck (85 mm 690 x 1220)	1
	303302071601		Forks Unit for Economical Truck (75 mm x 570 x 1150)	1
	303302071602		Forks Unit for Economical Truck (75 mm x 690 x 1220)	1
24	910200200034		Screw GB70.1-M6 x 14-8.8	1
25	302872010023	SAC20.3.2_E	Rock Arm Welding (540)	2
26	940500100032	QB047.01.2 529.25	Bushing Ø25 x Ø29 x 25-SF-1	2
27	911200100005		Grease Cup JB7940.2-45°-M6	1
28	940500100006	QB047.01.1618.15	Bushing Ø16 x Ø18 x 15-SF-1	4
29	300523520013	ACA20.1-12	Axle Ø16 x 48	2
30	910401300007		Circlip for Axle GB894.1-16	2
31	302872020046	SAC20.1-7_E	Push Rod Fork	2
32	301072020004	DFA25.1-5	Hinge Pin Ø16 x 48	2
33	910300400009		Nut GB6173-M22 x 1.5-05	2
34	910401400006		Circlip for Hole GB893.1-25	2
35	302672020028	SAC20.1-5/E	Rock Arm Axle Ø25 x 476.5	1
36	302672010004	SAC20.1.2_E	Push Rod Welding (1150) (L1=875, L2=777)	2
37	301072020000	DFA25.1-8	Axle Ø16 x 82	2
38	910600400024		Cylindrical Spring Pin 5 x 28	2
39	910600400027		Cylindrical Spring Pin 5 x 35	2
40	302672020019	SAC20.1-6/E	Lever Block Axle Ø20 x 155	2
41	301071720003	DFA25.1-10	Lever Block (75 mm)	2
42	302517020001	DFA20.1-11/D	Wheel Axle Ø20 x 94	4
43	301017020003	DF25.1-14_D	Linking Plate	4

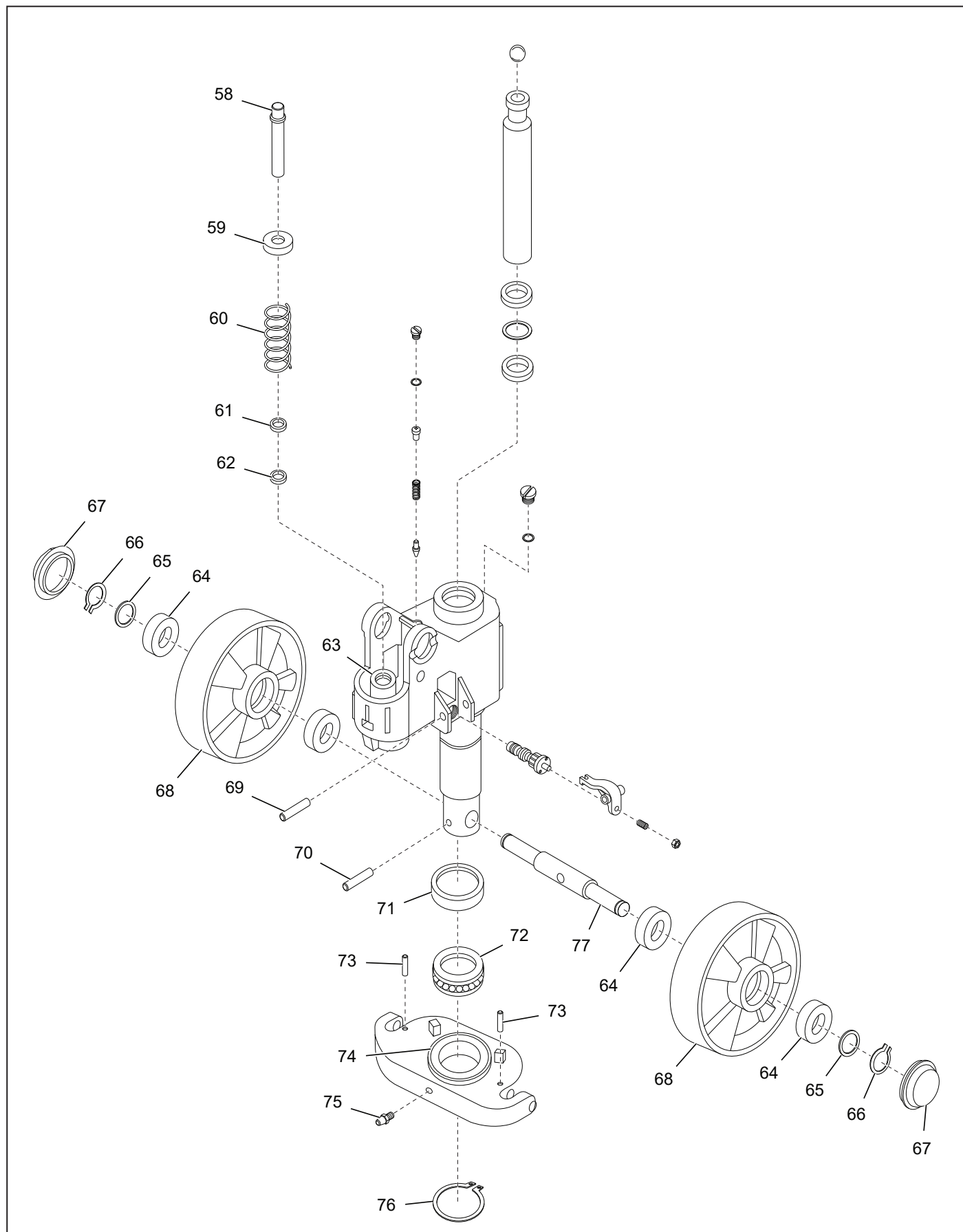
12.2 Chassis Assembly Parts



12.2 Chassis Assembly Parts List

Ref #	Part Number	Drawing Number	Description	Qty.
44	302517020005		Washer	8
45	910700200019		Bearing GB276-6204-2RS	8
46	940300201020		Red PU Wheel (Iron Core) Ø74 x 70	4
47	910600400027		Cylindrical Spring Pin 5 x 35	8
48	302872020054	HTW1.1-1	Washer Ø26 x Ø20.3 x 3	4
49	302972020060	DF25.1-7-2/D	Push Rod Bushing (with grease nipple only) Ø25 x Ø16 x 52	2
50	910300500006		Nut GB889.1-M12-10	4
51	921800100031		Sensor ESS-210	4
52	302871620048	SAC20.1.8-2_R	Washer Ø25 x Ø13 x 8	4
53	302872010010	SAC20.1.4_E	Cover Plate Welding (555 x 1150)	1
54	941100300004	SAC20.1.8-1/ RAVAS	Screw M12 x 63-8.8	4
55	910200200098		Screw GB70.1-M12 x 30-8.8	8
56	910400100006		Washer	2
57	910200200055		Screw	2

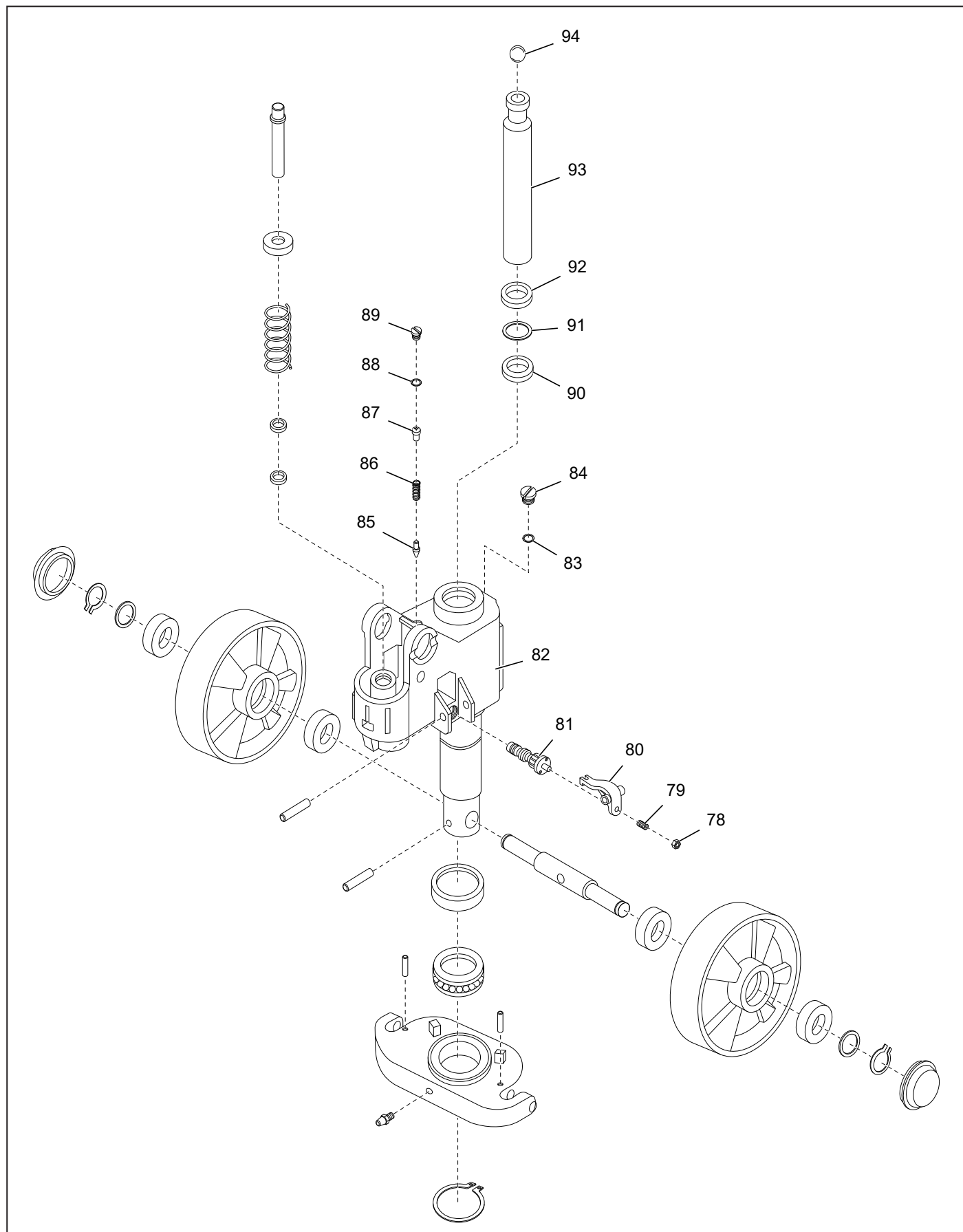
12.3 Hydraulic Pump Unit Parts



12.3 Hydraulic Pump Unit Parts List

Ref #	Part Number	Drawing Number	Description	Qty.
58	300523520005	ACA20.1-6	Piston Ø18 x 86.5	1
59	300523520006	ACA20.1-7	Spring Cap Ø54 x Ø18.5 x 17	1
60	940400500034	ACA20.1-4	Spring Ø43.3 x Ø5.7 x 87	1
61	910800400010		Dust Ring FC 18 x 26 x 4.5	1
62	910800300012		Seal Ring for Axle Y18 x 26 x 5	1
63	300523520004	ACA20.1-5	Cylinder Ø35.5 x Ø18 x 60	1
64	910700200019		Bearing GB276-6204-2R S	4
65	301016520003	DFA25.1-13	Washer Ø25 x Ø20 x 2	1
66	910401300011		3 Circlip for Axle GB894.1-20	2
67	301016520002	DFA25.2.2-2	Dust Cover	2
68	940300101011	DF25.2.2-1	Red PU Wheel (Iron Core) Ø180 x 50	2
	940300105003		White Nylon Wheel Ø180 x 50	2
	940300104003		Black Rubber Wheel (Aluminium core) Ø180 x 50	2
	940300101009		Black PU Wheel (Iron core) Ø180 x 50	2
69	910600400048		Cylindrical Spring Pin 8 x 50	1
70	910600400047		Cylindrical Spring Pin 8 x 45	1
71	300523520014	ACA20.1-13	Protective Cover (Bearing) Ø83 x Ø81.4 x 13	1
72	910700700002		Bearing GB301-51111	1
73	910600400025	2	Cylindrical Spring Pin 5 x 30	2
74	300523520000	ACA20.1-1	Thrust Plate	1
75	911200100002		Grease Cup JB7940.1 M6 x 1	1
76	910401300025		Circlip for Axle GB894.1 52	1
77	300516520000		Wheel Axle Ø25 x 180	1

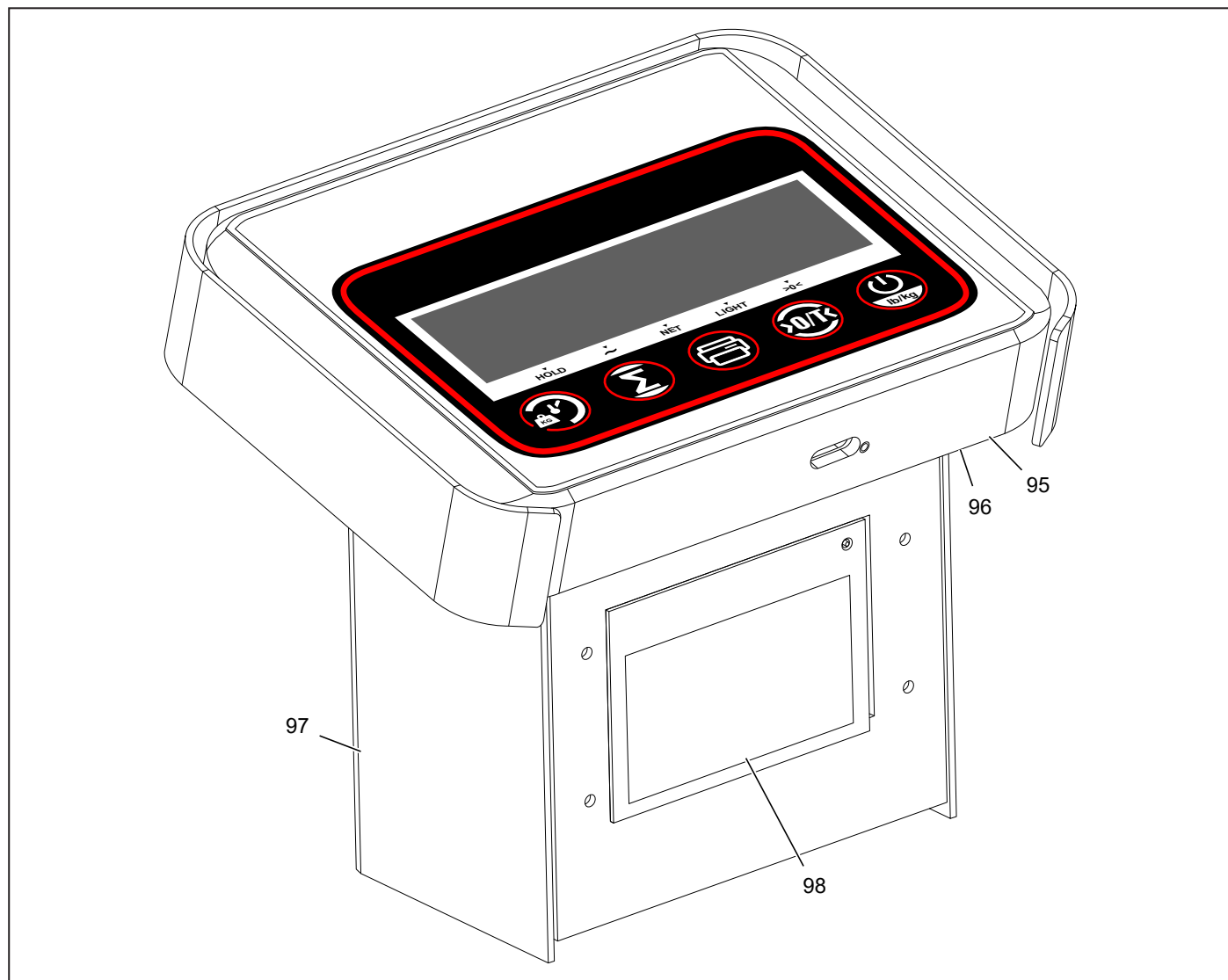
12.3 Hydraulic Pump Unit Parts



12.3 Hydraulic Pump Unit Parts List

Ref #	Part Number	Drawing Number	Description	Qty.
78	910300100006		Nut GB6170-M8-10	1
79	910200800021		Screw GB77-M8 x 20-45H	1
80	300523520001	ACA20.1-2	Rocker Rod	1
81	300523510003	ACA20.1.2	Hydraulic Valve Assembly	1
82	310323510052	AC20.1.1/DF	Cylinder Assembly AC166MM (AC51 pump) 2T Black 9005	1
	310323510022		Cylinder Assembly AC166MM (AC51) 2T Grey	1
	310323510025		Cylinder Assembly AC166MM (AC51) 2T Galvanized	1
	310323510039		Cylinder Assembly (AC166MM) 2.5T Grey	1
	310323510057		Cylinder Assembly AC166MM (AC51) 2.5T Galvanized	1
	310323510024		Cylinder Assembly ACY166MM (ACY51) 2T Grey	1
	310323510026		Cylinder Assembly ACY166MM (ACY51) 2T Galvanized	1
	310323510058		Cylinder Assembly ACY166MM (ACY51) 2T Grey	1
83	950100200002	WG-153	Rubber Seal 15 x 10 x 3	1
84	303323510001		Thrust Plate Welding	1
85	301023520016	DFA25.2-26	Valve Core (Safety)	1
86	940400500060	T45-109-30	Spring Ø7 x Ø3 x 24.5	1
87	300523520011	ACA20.1-9	Adjusting Screw M12 x 1.5 x 18	1
88	910800100039		O-Ring External 18 x 2.4	1
89	300523520010	T45-109-27	Plug M14 x 1.5 x 6	1
90	910800300013	WG-23	Seal Ring for Axle Y35 x 45 x 6	1
91	910800100010		O-Ring Inner 34.52 x 3.53	1
92	910800400003		Dust Ring FC 35 x 43 x 5	1
93	300523520007	ACA20.1-8	Piston Ø35 x 277	1
94	910701100019		Steel Ball GB308-18	1

12.4 Indicator Display Unit Parts



12.4 Indicator Display Unit Parts List

Ref #	Part Number	Drawing Number	Description	Qty.
95	921100100119	(without printer)	Electronic Scale Instrument ESP 400	1
		(with printer)		1
	921100100120	(without printer) (bluetooth)	Electronic Scale Instrument ESP 400B	1
		(with printer) (bluetooth)		1
96	910200200020		Screw GB70.1-M5 x 8-8.8	4
97	303433510001		Instrument Frame Welding	1
98	921100100121		Printer R05	1

13. EC Declaration of Conformity

The manufacturer hereby declares,

TREX.PARTS GmbH & Co. KG
August-Otto-Str. 2
DE-27419 Sittensen

Hereby declares its sole responsibility that the **HPT20S-Li Hand Pallet Truck**

Type/series identification: **HPT20S-Li (46771209)**

Is in conformity with the provisions

2006/42/EC
2014/30/EU

Machinery Directive
EMC Directive

The product has been developed in accordance with the following standards:

EN ISO 3691-5:2015+A1:2020
EN 16307-5:2023
EN IEC 61326-1:2021

Storage of the technical documentation:

Mr. Andre Schmidt
TREX.PARTS GmbH & Co. KG
August-Otto-Str. 2
DE-27419 Sittensen

The serial number and model year are shown on the type plate of the machine.



Sittensen, 17.07.2026

C. Bottcher, Managing Director

Translation of the original conformity declaration

14. Warranty

The warranty conditions of TREX.PARTS GmbH & Co. KG apply; these can be found in the sales documents and the current version of the General Terms and Conditions.

In case of questions, please contact the company's customer service department.

15. Address

Sales / Customer Service /
Spare Parts Sales:

Tel.: +49 (4282) 63490 5050
E-Mail: sales@trex.parts

Postal and Shipping Address:

TREX.PARTS GmbH & Co. KG
August-Otto-Str. 2
DE-27419 Sittensen
Germany

16. Legal Notice

Translation of the original operating instructions for the HPT20S-Li Hand Pallet Truck with Scale
Manufacturer: TREX.PARTS GmbH & Co. KG, August-Otto-Str. 2, DE-27419 Sittensen
1 st Edition, July 2026
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