

Clarke® STRONG-ARM



HYDRAULIC PALLET TRUCKS

MODEL Nos: PT550 GAL & PT685 GAL
PART Nos: 7630234 & 7630236

OPERATION & MAINTENANCE INSTRUCTIONS



0204



Please read these instructions carefully before operating the truck

Thank you for purchasing this **CLARKE** Strong-Arm Pallet Truck. Before using the device, please read this manual thoroughly and carefully follow all instructions given. This is for your own safety and that of others around you, and is also to help you achieve a long and trouble free service from your new truck.

CLARKE GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not affect your statutory rights.

PARTS & SERVICE TEL: 020 8988 7400

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

SERVICE: Service@clarkeinternational.com



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The **PT550GAL** & **PT685GAL** industrial pallet trucks are built for tough daily use in factories and warehouses, and operating in damp conditions.

FEATURES

- Heavy duty steel gauge construction.
- Tandem fork rollers provide extra stability.
- 3 Position trigger includes neutral for safe handling.
- Foot and hand lowering controls.
- Adjustable descent speed control.
- Chrome plated piston rod, ensuring a longer life.
- Drop forged lift link arms provide strength and durability.
- Galvanised Finish.



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SPECIFICATIONS

Model	PT550 GAL	PT685 GAL
Part Number	7630234	7630236
Lifting capacity	2,500 kg	2,500 kg
Overall Width	550mm	685mm
Fork Length	1100mm	1220mm
Fork Width	160mm	160mm
Gap Between Forks	230mm	365mm
Entry Options	4 Way	2 Way
Fork Rollers	Twin Nylon	Twin Nylon
Finish	Galvanised	Galvanised
Weight	88 kg	103 kg

WARNING!
MAXIMUM LOAD - 2500KG

Please note that the details and specifications contained herein are correct at the time of going to print. However CLARKE International reserve the right to change specifications at any time without prior notice. Always consult the machines data plate

SAFETY PRECAUTIONS

- **ALWAYS** wear good quality safety shoes, (steel toe caps) and industrial work gloves.
- **ALWAYS** ensure the load is evenly distributed on the forks and is perfectly stable before attempting to raise.
- **ALWAYS** before operating, ensure that all bolts, pins and securing devices are correctly in place and in good condition. Check for signs of cracked welds, bent or loose pins or other signs of structural damage. Do not use if any of these conditions exist. Ensure repairs are carried out by qualified persons only, or contact your nearest Clarke dealer.
- **ALWAYS** lower the forks to their lowest position when not in use,, and ensure it is left where it cannot become a hazard to others. If necessary, the wheels must be chocked to prevent it from moving and possibly becoming a hazard.
- **ALWAYS** ensure the machine is properly maintained at all times (see Maintenance).
- **NEVER** turn the tiller at right handles to stop the truck.
- **NEVER** exceed the load for which the machine was designed. If the load capacity and other warning labels become defaced or illegible, have them replaced.
- **NEVER** use the truck to transport persons, or use as a scooter.
- **NEVER** use in applications where a risk exceeding the rated capacity exists.
- **NEVER** use in applications where a risk of unintentional movement exists.
- **NEVER** allow the truck to have direct contact with foodstuffs.
- **NEVER** use truck in potentially explosive atmosphere.
- **DO NOT** leave load on pallet truck for lengthy periods
- **DO NOT** rapid load the truck, i.e.; drop heavy loads directly onto forks.
- **DO NOT** allow any person to operate the machine unless they are completely familiar with all aspects of operation and have read this manual thoroughly.
- **DO NOT** use as a vehicle jack
- **DO NOT** use the extremity of fork arms as a lever to lift a load.
- **DO NOT** exceed the maximum working load for the truck. See Specifications.
- **DO NOT** use on gradients due to excessive efforts and loss of control.
- **DO NOT** use on rough terrain, floor requirements are, smooth, non slip, hard, level and without obstacles ONLY.
- **DO NOT** transport personnel on the truck, or use as a scooter.
- **DO NOT** leave the truck on a gradient without first securely chocking the wheels.
- **DO NOT** use if wheels or castors are damaged...have them replaced immediately.
- **DO NOT** use in places insufficiently illuminated, (min 50 lux).
- If the machine has been subjected to an abnormal load or shock, remove it from service immediately and have it fully inspected by a qualified person. If necessary, consult your Clarke dealer.
- The truck must not be altered or modified in any way unless previously authorised by Clarke International.

IMPORTANT:

ALWAYS check to ensure the centre of gravity of the load is centered about the forks.

ASSEMBLY Figures in brackets refer to Index Nos in parts list on pages 9-12

Your new Pallet truck is delivered with the handle removed, To fit the handle proceed as follows;

1. Remove one roll pin, item 1, Fig. 1 (117) from shaft, item 2, Fig. 1 (118) and keep safe for reuse later.
2. Remove shaft from pump body item 4, Fig. 2.
3. Insert Handle tube with warning label on top and trigger on R/H side, item 3, Fig.2 (108) at position A, Fig. 1, **Note ; handle needs to be held at an angle of approx 45° in order to fit the shaft**, connect handle tube to pump body by sliding the shaft, item 2, Fig. 1, back into pump body and handle tube.
4. Turn shaft so that the roll pin is vertical. **DO NOT** push fully home yet.
5. Pass the roller chain, item 5, Fig. 2 (115), through the centre hole in shaft, Locate

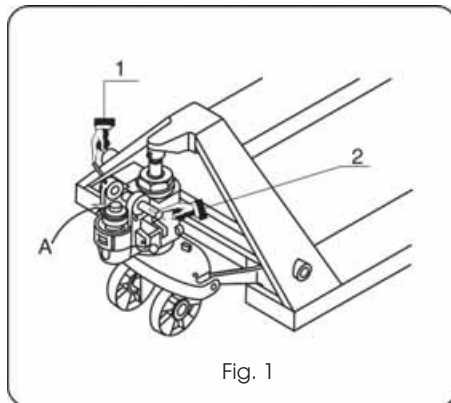


Fig. 1

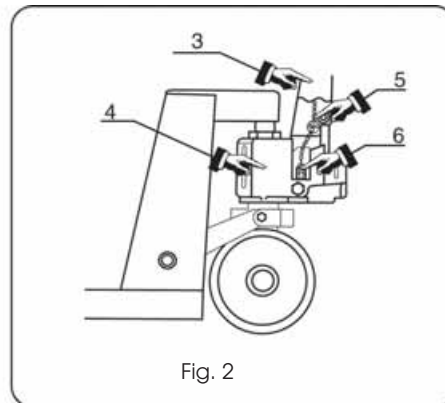


Fig. 2

8. Try raising the forks by pushing the trigger, item 8, Fig. 3 down until it latches. Pump handle backwards and forwards, forks should lift. and should remain in up position.
If forks drop without raising the trigger up to the lowering position, proceed as follows.
- 1a) Loosen hexagonal nut, item 10, Fig. 5 (134) and turn screw, item 9, Fig. 5 (133) anticlockwise a little.
- 2a) Repeat step 7, again if forks drop, turn screw a little more, keep repeating this procedure until forks stay up until, either the trigger or foot pedal is operated to lower the truck. If forks do not lower when operating the trigger or foot pedal, turn

WARNING!
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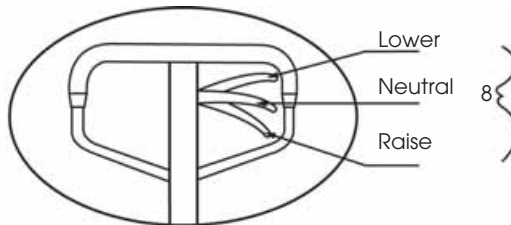


Fig. 3

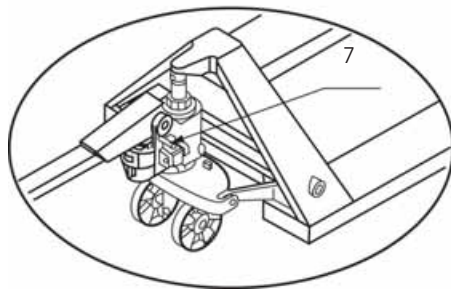


Fig. 4

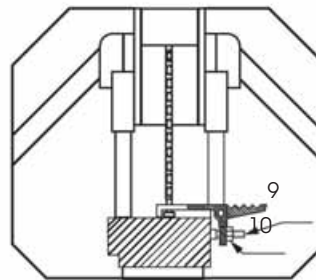


Fig. 5

OPERATING INSTRUCTIONS

Before operating the truck, ensure you have read and understood the instructions in this manual, paying particular attention to the safety precautions.

Familiarise yourself with the controls, i.e; raise and lower the forks without any load, practice steering the empty truck to understand how the truck reacts.

To raise the forks, push the trigger down until it latches, then slowly pump the handle backwards and forwards and watch the forks lift, once the forks are in their highest position, put the trigger into the central position (neutral), to lower the forks, gently pull the trigger upwards, or push the foot pedal down the more the trigger is pulled up or the foot pedal is pushed down, the faster the forks will lower,

NOTE:

The forks will drop much faster when a load is on the forks, also the heavier the load the faster still the rate of descent.

1. Ensure the pallet to be moved does not exceed the maximum weight for the truck.
2. Make visual checks to ensure the load is secure and will not topple off when lifted, also check the pallet is not broken etc.
3. Once satisfied all is ok, proceed as follows.
 - a) With the forks in their lowest position, Slowly push the truck under the load to be moved, try to position the truck so that the centre of gravity is in the middle of the forks. In the event this is not possible the rated capacity is reduced, ie; the truck is designed and built to lift a maximum load of 2500 kg spread over both forks. Take care that the fork rollers are not sitting on any pallet cross member etc.

- b) Slowly raise the forks and watch the load lift, once the load has been raised sufficiently, put the trigger in the neutral position (centre), before attempting to move the truck.
- c) Gently push or pull the pallet truck with load to its new location, observing that there are no personnel or obstacles in the way.
- d) Before lowering the load, ensure it is clear to do so, i.e.; make sure that nobody's feet, including your own are underneath the pallet etc, once satisfied the way is clear, slowly lower the load to the floor.
- e) Withdraw the pallet truck, Lower the forks to their lowest position and store safely so as not to cause an obstruction, chock the wheels if necessary to prevent the truck moving accidentally.

NOTE:

If the truck has not been used for some time, there is a possibility that the hydraulic system may have absorbed air.

This can easily be removed in the following way:

- 1. With the trigger pulled up fully (lowering position), quickly pump the handle backwards and forwards 4 - 6 times.***
- 2. Push trigger down to its lowest position, slowly pump the handle backwards and forwards, forks should now lift, if not repeat steps 1 & 2 until the forks lift normally.***

MAINTENANCE

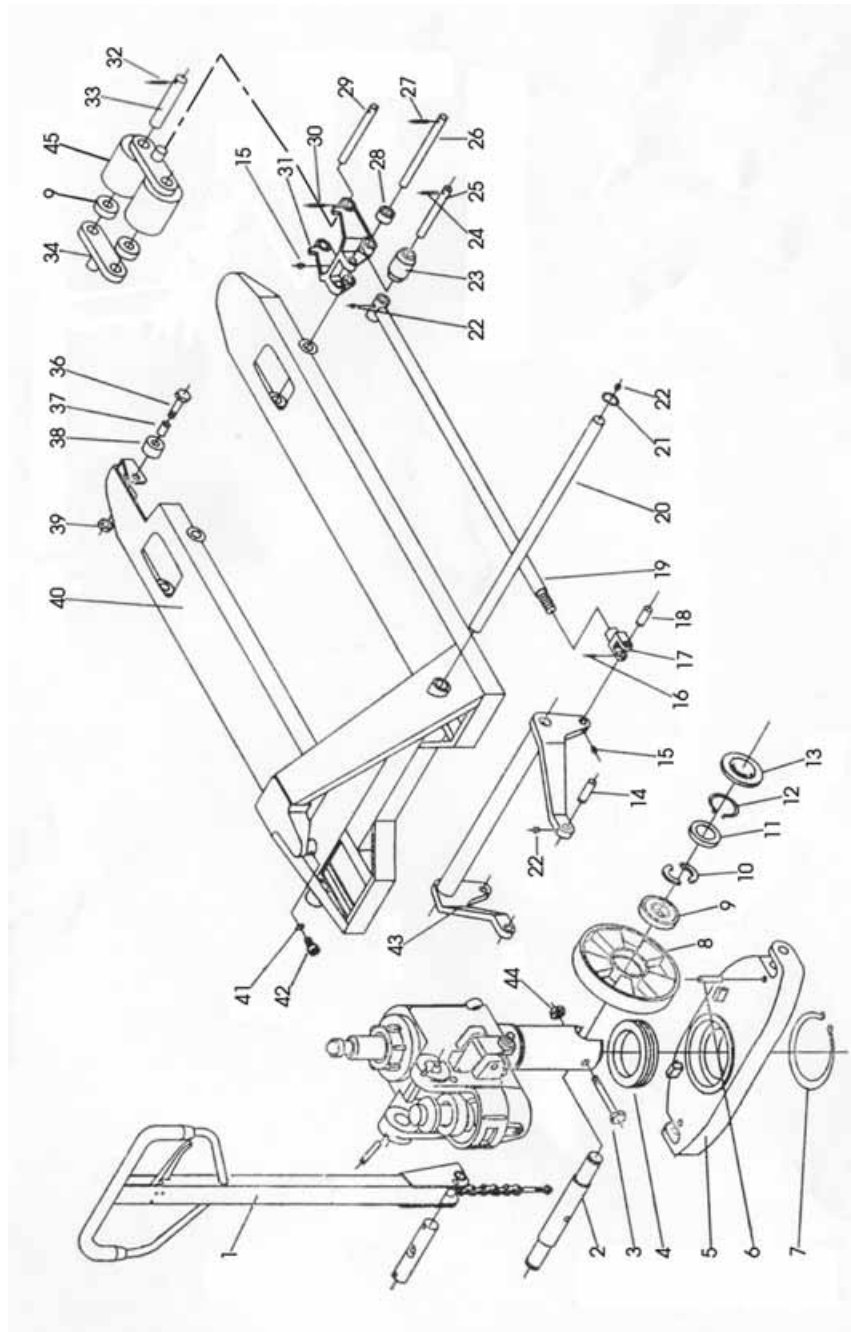
Inspect the truck daily for possible cracks/damage, also check for oil leaks. Special attention should be paid to the nylon wheels. Check that all wheels and auxiliary rollers are complete and turn freely, check they are not blocked by anything being wrapped around the axles, i.e.; threads and rags etc, if any are found they should be removed. Nuts and bolts etc, if run over can and do get embedded in the nylon wheels, if any such foreign objects are found, they should be removed.

Approx every three months all moveable joints should be lubricated using a good quality motor oil, DO NOT apply so much oil that it drips onto the floor.

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PARTS DIAGRAM



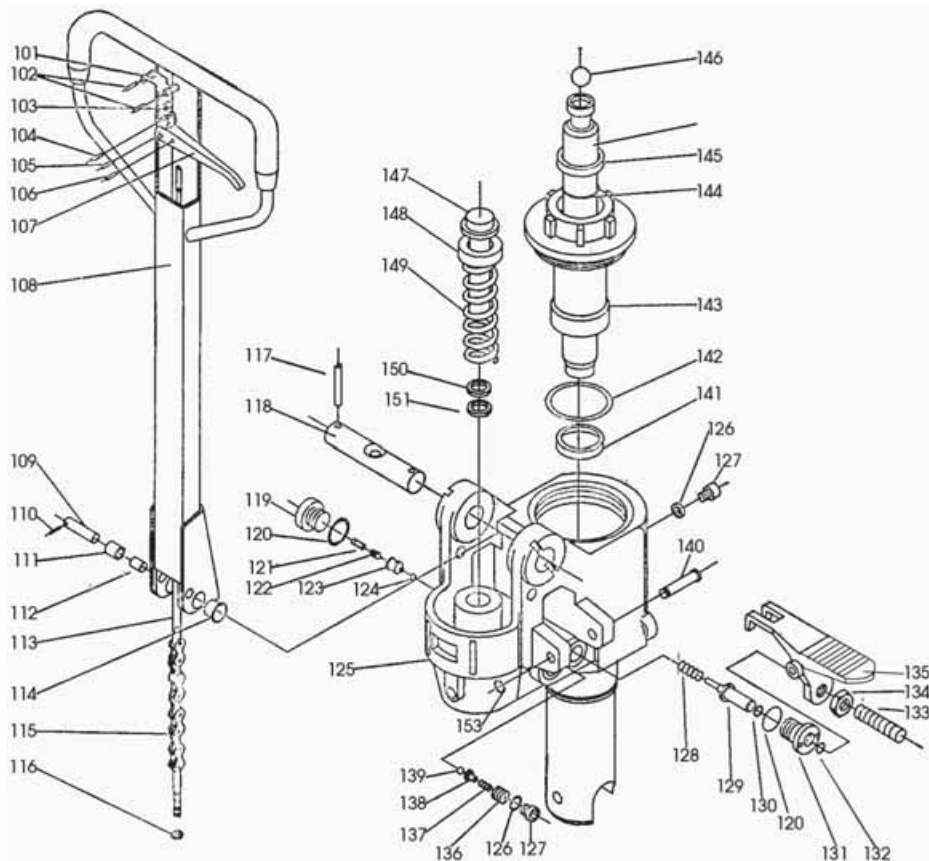
PARTS LIST

Index No	Part No	Description	Qty
1	ZJB01	Handle and Pump Complete	1
2	ZJB02	Large Wheel Shaft	1
3	ZJB03	Bolt	1
4	ZJB04	Bearing	1
5	ZJB05	Supporting Base	1
6	BZJ06	Spring Pin	2
7	ZJB07	Retaining Ring	1
8	ZJB08	Large Wheel	2
9	ZJB09	Bearing	8
10	ZJB10	Half Cirque	4
11	ZJB11	Bowl Washer	2
12	ZJB12	Axle Retaining Ring	2
13	ZJB13	Dust Cover	2
14	ZJB14	Pin	2
15	ZJB15	Oiler	8
16	ZJB16	Spring Pin	2
17	ZJB17	Joint	2
18	ZJB18	Pin	2
19	ZJB19	Straight Tappet	2
20	ZJB20	Long Shaft	1
21	ZJB21	Retaining Ring	2
22	ZJB22	Oiler	4
23	ZJB23	Roll Sheath	2
24	ZJB24	Spring Pin	2
25	ZJB25	Shaft	2
26	ZJB26	Shaft	2
27	ZJB27	Spring Pin	2
28	ZJB28	Roll Ring	4
29	ZJB29	Shaft	2
30	ZJB30	Spring Pin	2
31	ZJB31	Fork Wheel Frame	2
32	ZJB32	Spring Pin	8
33	ZJB33	Shaft	4
34	ZJB34	frame	4
36	ZJB36	Bolt	2
37	ZJB37	Sheath	2
38	ZJB38	Wheel	2
39	ZJB39	Nut	2
40	ZJB40	Fork Frame	1
41	ZJB41	Spring Lock Washer	1
42	ZJB42	Bolt	1
43	ZJB43	Rocker Arm	1
44	ZJB44	Nut	1
45	ZJB45	Fork Wheel	4

IMPORTANT:

The use of parts other than CLARKE replacement parts may result in safety hazards, decreased tool performance and may invalidate your warranty.

PARTS DIAGRAM Handle & Pump



PARTS & SERVICE TEL: 020 8988 7400

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

SERVICE: Service@clarkeinternational.com

PARTS LIST Handle & Pump

Index No	Part No	Description	Qty
101	ZJB101	Blade Spring	1
102	ZJB102	Spring Pin	2
103	ZJB103	Roller	1
104	ZJB104	Spring Pin	1
105	ZJB105	Spring Pin	1
106	ZJB106	Spring Pin	1
107	ZJB107	Handle	1
108	ZJB108	Handle Tube	1
109	ZJB109	Shaft	1
110	ZJB110	Spring Pin	1
111	ZJB111	Pressure Roller	1
112	ZJB112	Bush	1
113	ZJB113	Pull Rod	1
114	ZJB114	Bush	1
115	ZJB115	Chain	1
116	ZJB116	Nut	1
117	ZJB117	Spring Pin	2
118	ZJB118	Shaft	1
119	ZJB119	Plug	1
120	ZJB120	Copper Washer	2
121	ZJB121	Spring	1
122	ZJB122	Damping Valve Spindle	1
123	ZJB123	Damping Valve Seat	1
124	ZJB124	Steel ball	1
125	ZJB125	Base	1
126	ZJB126	Copper Washer	2
127	ZJB127	Bolt	2
128	ZJB128	Spring	1
129	ZJB129	Strike Pin	1
130	ZJB130	'O' Ring	1
131	ZJB131	Axle Sleeve	1
132	ZJB132	'O' Ring	1
133	ZJB133	Bolt	1
134	ZJB134	Nut	1
135	ZJB135	Lever Plate	1
136	ZJB136	Bolt	1
137	ZJB137	Spring	1

TROUBLE SHOOTING

No.	Symptoms	Possible Causes	Remedy
1.	Forks not lifting to maximum height.	Insufficient hydraulic oil.	Add more hydraulic oil.
2.	Forks not lifting.	a) No hydraulic oil. b) The oil is contaminated. c) The regulating screw (item 9) Fig.1 is set too close to strike pin.	a) Add Hydraulic oil. b) Change the hydraulic oil. c) Slacken locknut (item 10), turn the regulating screw a little ant- clockwise. Repeat adjustment until forks lift OK.
3.	The forks do not lower after raising.	a) The regulating screw set too far back from strike pin. b) Piston rod is deformed due to misuse, ie; overloading or loading to one side. c) The forks not lowered down fully when not in use, causing piston to rust.	a) Adjust regulating screw as above (turn screw clockwise). b) Fit new piston rod and cylinder. c) Clean and lubricate piston. Replace piston and cylinder if too badly damaged.
4.	Leaking oil.	a) Oil seals / 'O' rings worn or damaged. b) Pump body worn or cracked.	a) Replace. b) Replace.
5.	Forks drop without operating the trigger.	a) Contamination in the hydraulic oil. b) Leaking oil.	a) Wash the damping valve with kerosene and/or change the hydraulic oil. b) See above.

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This is an important document and should be retained

DECLARATION OF CONFORMITY



We declare that this product complies with the following standards/directives:

- **89/392/EEC**
- **EN 292-1**
- **EN 292-2**
- **EN 1757-2**
- **B.S.4155**
- **GS - FL - 02/10.88 VGB 12A**

Description: **PALLET TRUCK**

Model No: **PT550GAL & PT685GAL**

Serial (Batch) No: **See Product Date Plate**

Signed: 

Clarke[®] INTERNATIONAL
Hemhall Street, Epping, Essex CM16 4LG