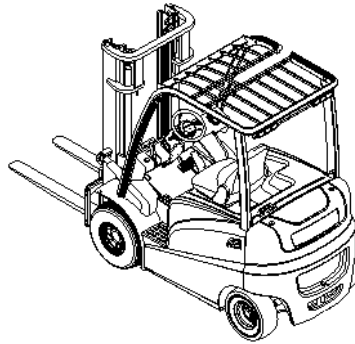




**1.5T-3.5T Electrical Four-Wheel Forklift Truck
OPERATION AND MAINTENANCE MANUAL
UT15PFE – UT35PFE**



Part No. 76502796(R5)

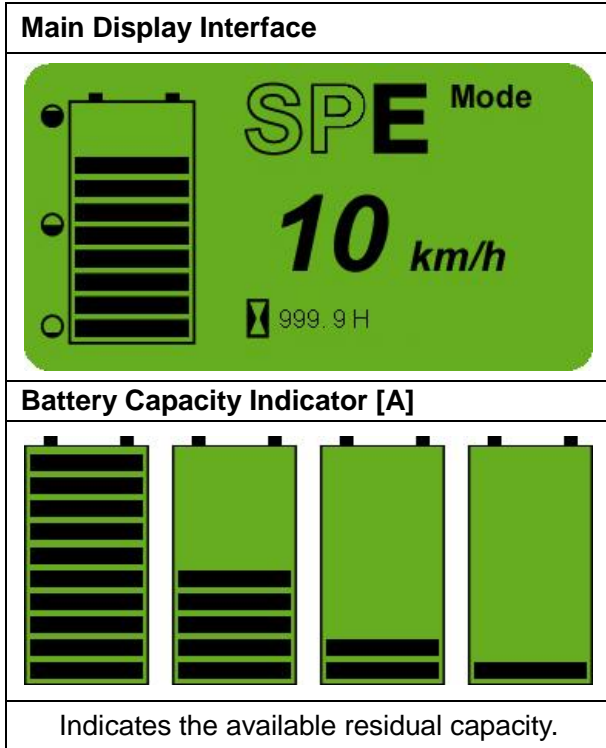
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As the figure shows below from left to right, the segments of the indicator bar gradually disappear as the battery charge is depleted. When only the last segment remains, the battery is at less than 20% of its capacity. At this point the entire indicator bar will blink. Stop working and immediately charge the battery. We recommend charging the battery promptly when two segments remain (around 20% of capacity remaining), otherwise battery life may be significantly shortened.

! CAUTION
Timely charging is essential to maintain the service life of the battery.

Service Hours Meter [B]

The service hours meter is a rectangular display with a green background. It features a service hours icon on the left and the reading '999.9 H' in a large, bold font.

The hour meter starts counting when the vehicle key switch is turned on. Display provides reading to nearest tenth of an hour. When the key is turned off the hour meter will stop counting.

Steering Wheel [25]

When the steering wheel is turned right, the forklift will turn to the right; when the steering wheel is turned left, the forklift will turn to the left. The rear end of the forklift swings out when turning.



CAUTION

This forklift uses a fully hydraulic steering system. Therefore, increased steer effort is required when the hydraulic pump motor stops running.

Immediately restart the truck starting the oil pump motor before turning wheel again.

Key Switch [26]

The key switch has two positions: ON and OFF. First set the direction lever to the neutral position, take your foot off the accelerator pedal, then turn the key clockwise to the ON position.

NOTE:

- **If the direction lever is not in neutral or the accelerator pedal is depressed, the forklift will not start when the key switch is turned to ON.**
- **At this point a fault code will be displayed, which is perfectly normal.**
- **Return the direction lever to the neutral position and move your foot off the accelerator pedal before attempting to start the forklift.**
- **The fault code will then disappear.**

Lock to Battery Cover [27]

Locks the battery cover hood to frame.

Locking Bolt to Battery Box [28]

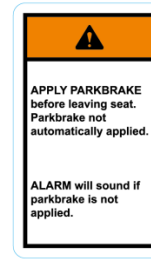
Holds the plates or covers on either side of the battery box closed.

Gas spring for Battery Cover [29]

Supports the battery cover in the open position. To close the cover, press the red button on side of gas spring and push down on the cover at the same time.

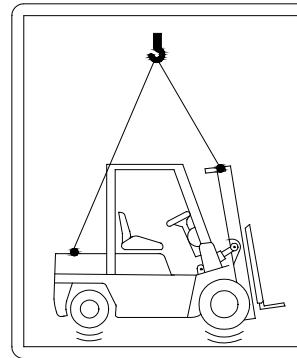
Park Brake Warning Label:

Apply Park Brake Manually or Alarm will sound.



Truck Lifting Label:

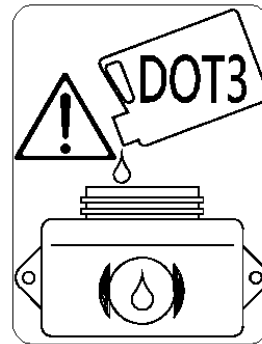
Use lift points as shown with appropriate chains or cables. Improper lifting techniques or equipment may cause damage to the forklift or cause serious bodily injury or death.



Snow Flake: For Cold Usage



Brake Fluid Label



- When snow, ice, water, or other foreign matter has accumulated on the surface, do not operate until the operating surface has been completely cleared
- Do not use the forklift during sandstorms, snowfall, lightning, torrential rain, typhoons or other harsh weather conditions.
- Park the forklift on a level surface and apply the parking brake. Do not park on an incline. If parking on an incline is unavoidable, be sure to block the wheels with wheel chocks.
 - Lower the forks to the floor and tilt slightly forward. Turn off the key switch and remove the key.
 - Disconnect the battery connector.
 - Park the forklift away from exposed flames and sparks.
- If the forklift breaks down, move it to a place where traffic will not be obstructed. If the breakdown was caused by the braking system or a steering system failure, then transport it using an appropriate transport forklift. If there was another cause, then use an appropriate Service towing forklift. See towing instructions in Section 6.
- DO NOT operate the truck or load cargo after removing the hood, radiator cover plate, overhead guard, or mast backrest.
- The workplace should be equipped with fire extinguishers. Users can also select a vehicle equipped with fire extinguisher. The fire extinguisher is generally installed on the rear leg of the OHG or frame and is easily accessible.
- The working area should be adequately lit. When working at night, switch on the headlights and work light. Be sure there is adequate lighting in the working area.
- When traveling forward and turning, use the side view mirrors to monitor tail swing. Due to the forklift's rear steer tires, the back of the forklift will swing out beyond the forward path of travel when turning. Be cautious when turning, taking into account tail swing while monitoring for pedestrians and obstacles. Adjust the side view mirrors to the correct angle to best observe conditions beside the forklift.
- Cold store truck is not allowed to interrupt the electric power parking in cold storage environment.
- Except as stated in the section below, no modifications or alterations to a powered industrial truck, which could affect, for example, capacity, stability or safety requirements of the truck shall be made without the prior written approval of the original truck manufacturer, its authorized representative, or a successor thereof. This

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Warning**Speed and Acceleration**

A stationary object will remain stationary unless an external force acts on it. Similarly, in the absence of an external force, a moving object will continue moving at the same speed. This is inertia.

Due to inertia, a rearward force is exerted when the forklift starts moving, and a forward force is exerted when the forklift stops moving.

Sudden braking can be hazardous because it generates a large forward force that can cause the forklift to tip over, or the load to slide off.

When the forklift turns a corner, a centrifugal force is exerted outward from the center of the turn. This force pushes the forklift outward and can cause it to tip sideways.

The truck has narrow lateral stability, so cornering must be performed slowly to prevent the forklift from tipping sideways. If the forklift is handling an elevated load, the overall center of gravity is higher and therefore the forklift is more prone to forward or lateral tip over.

10. Operation



WARNING

A forklift that has any damage or malfunction must not be used until it has been properly repaired. Failure to repair the forklift prior to operating may result in severe injury or death.

10.1 Starting

- (1) Put the directional control lever in the neutral position.
- (2) Connect the battery plug.
- (3) Turn on key switch: grip the steering wheel knob with your left hand and turn on the key switch with your right hand.
- (4) Tilt mast backwards: use the lifting lever to raise the forks 150 to 200 mm off the ground. Then use the tilt lever to tilt the mast all the way back.



- (5) Operate the directional control lever.
- (6) To drive forward: push the direction lever forward;
- (7) To reverse: pull the direction lever back.
- (8) Release hand brake lever: depress the brake pedal; push the hand brake lever all the way forward.
- (9) Grip the steering wheel knob with your left hand and rest your right hand on the steering wheel.

10.2 Driving

Slowly depress the accelerator pedal until the forklift starts to travel forward or backward while looking in the direction of travel.

10.3 Decelerating

Slowly release the accelerator pedal, the forklift will slow down



CAUTION

Never depress the accelerator pedal and the brake pedal at the same time. This behavior may result in property damage.

Preparation Process

- Wear protective eyewear, rubber shoes and rubber gloves.
- Slowly add the acid to the distilled water, stirring constantly with an acid-proof stirring rod until a uniform mixture is obtained.



WARNING

Do not pour water into acid, as the surface temperature of the liquid may suddenly rise to boiling point, leading to splash injuries.

- When the electrolyte solution has cooled to 30°C, pour it into the battery cells. Add electrolyte until the level is about 10–15 mm higher than the splashguard level (batteries without hydrometer), or the float is 1 mm from the cap (batteries with hydrometer).
- Leave to stand for 3 to 5 hours until the electrolyte temperature drops below 35°C. Then commence initial charging.

NOTE:

Initial charging must be commenced within 12 hours of pouring electrolyte into battery cells.

- Connect the random charging cable to the charger.

NOTE:

Make sure the charger voltage is the correct voltage for the battery.

Use only battery chargers approved by the battery manufacturer or dealer.

Always make sure the color in the window of the charger connector is the same as the color in the window of the battery connector.

(7) Inspection

- The supply voltage required is 3 times the number of battery cells in series.
- Inspect the charger.
- Check the polarity of each battery cell.

Truck Type	Battery	Battery Voltage (V)
1.5T-1.8T	D-420	48
2.0T-2.5T	D-630B	48
3.0T-3.5T	D-500	80

13.1 Weight of Counterweights:

Model	Counterweight (Mass)
1.5T	570±15 kg
1.8T	780±20 kg
2.5T	1020 kg
3.0T	1170 kg
3.5T	1540 kg

Hydraulic System

Item	Operation	Tools	Daily	Weekly	Monthly	Every 3 Months	Every 6 Months
			(8 hours)	(40 hours)	(166 hours)	(500 hours)	(1000 hours)
Hydraulic Reservoir	Check oil level Change oil		○	○	○	○	X
	Clean oil filter						○
	Clear for foreign bodies						○
Control Levers	Check levers for looseness		○	○	○	○	○
	Check for proper operation		○	○	○	○	○
Control Valve	Check for oil leak		○	○	○	○	○
	Check relief valve and tilt lock valve for operation				○	○	○
	Measure pressure of relief valve	Oil Pressure Gauge					○

14. Attachments

In accordance with international standard ISO 2328 and U.S. standard B56.1, Utilev requires the use of matching attachments, which include flat clamps, rotating clamps, paper roll clamps, coil rams and side shifters. Attachments must be removed or installed by trained personnel only.

Installation of Attachments

- No safety or performance-related modifications must be made to the forklift without technical authorization from Utilev.
- The actual rated load capacity should be taken as the smallest of the following values:
 - a) the rated capacity of the forklift
 - b) the capacity of the attachment itself
 - c) the overall capacity of the whole vehicle.
- In general, the overall capacity of the whole vehicle is the smallest of the three values. "Attachment load capacity" is solely a method for calculating the stress on the attachment itself.
- Install an attachment in a rational, reliable and safe position to prevent it from sliding relative to the fork carriage during use.
- For attachments with upper hook stopper, make sure that the attachment is centered by inserting the hook stopper in the gap on the upper crossbar after installation.
- The deviation from the fork carriage centerline must be less than 50 mm; otherwise the attachment will affect the lateral stability of the forklift.
- After installation of rotating attachments (paper roll clamp, bale clamp, multi-purpose steel arm clamp, barrel clamp), stoppers must be welded to both sides of the fork carriage crossbar where it meets the attachment, so as to prevent the attachment from sliding during operation.
- When installing attachments with lower hook fastening, the clearance between the lower hook and the corresponding location on the lower crossbar of the fork carriage must be suitably adjusted.

Installation and Operation

Proper care, which includes proper watering and maintenance, will extend the life of your battery. How often you use and recharge your batteries will determine the frequency of watering. Also, using batteries in a hot climate will require more frequent watering. It is best to check your battery water level frequently and add distilled water when needed. Never add tap water to your battery. Tap water contains minerals that will reduce battery capacity and increase their self-discharge rate.

In order to guarantee that the automatic battery watering system remains leak-proof, you must keep all surfaces of the auto injection system clean. We will outline here how to properly install and operate the system.

To correctly install the water tank, use the proper type and quantity of floats. Be sure to choose watering plugs, hoses, connectors and couplings designed for use with your specific battery. Also, the flow indicator must be kept clean for optimum performance.



WARNING

A brand new battery may have a low electrolyte level. Charge the battery first and then add water if needed. Adding water to a battery before charging may result in overflow of the electrolyte. Failure to follow this procedure can result in serious injury.

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