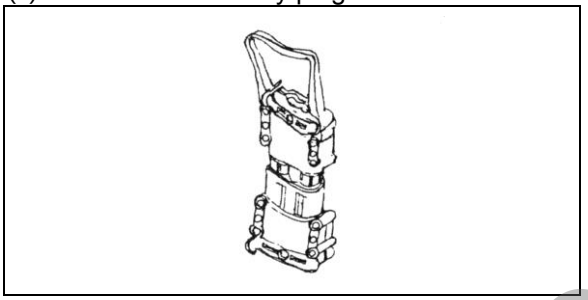
8. Starting and Operation

Starting

(1) Put the direction 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: operate the lifting lever to raise the forks 150 to 200 mm off the ground. Operate the tilt lever to tilt the mast all the way back.
(5) Operate the direction 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.

Driving

Slowly depress the accelerator pedal until the forklift starts to travel forward or backward.

Decelerating

Slowly release the accelerator pedal, the forklift will slow down

NOTE

Always decelerate in the following situations:

- When turning
- When approaching cargo or pallets
- When approaching stacked cargo areas
- When entering narrow aisles
- When ground or road is in poor condition

WARNING

- Never depress the accelerator pedal and the brake pedal at the same time.

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Periodic Maintenance Schedule

○ - check, correct, adjust; × - change/replace

Battery

Item	Operation	Tools	Daily (8 hours)	Weekly (40 hours)	Monthly (166 hours)	Every 3 Months (500 hours)	Every 6 Months (1000 hours)
Battery	Electrolyte Level	Visual inspection		○	○	○	○
	Electrolyte Specific Gravity	Hydrometer		○	○	○	○
	Battery Power		○	○	○	○	○
	Check For Loose Connection Terminals		○	○	○	○	○
	Check For Loose Connection Cables		○	○	○	○	○
	Clean The Battery Surface		○	○	○	○	○
	Check For Tools Left On Battery		○	○	○	○	○
	Check Vent Caps Are Tight, Vents Unobstructed			○	○	○	○
	Proximity To Open Flames		○	○	○	○	○

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Bolt and Screw Tightening Torque Table

Unit: N·m

Bolt Diameter	Grade			
	4.6	**5.6**	**6.6**	**8.8**
6	4–5	5–7	6–8	9–12
8	10–12	12–15	14–18	22–29
10	20–25	25–31	29–39	44–58
12	35–44	44–54	49–64	76–107
14	54–69	69–88	83–98	121–162
16	88–108	108–137	127–157	189–252
18	118–147	147–186	176–216	260–347
20	167–206	206–265	245–314	369–492
22	225–284	284–343	343–431	502–669
24	294–370	370–441	441–539	638–850
27	441–519	539–686	637–784	933–1244

Note:

Use entirely 8.8 grade bolts in the important joint position.

A bolt's grade can be found imprinted on the top surface of the bolt. If not, assume the grade is 8.8.

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13. Performance Parameters Table

Model	UT13PTE	UT15PTE	UT16PTE	UT18PTE	UT20PTE
Rated lifting capacity (kg)	1300	1500	1600	1800	2000
Load center distance (mm)	500	500	500	500	500
Lift height (mm)	3000	3000	3000	3000	3000
Free lift height (mm)	150	150	150	150	150
Mast Tilt angle (front/back) (°)	6 / 6	6 / 6	6 / 6	6 / 6	6 / 6
Maximum travel speed under full load (km/h)	16	15	15	15	12
Maximum lifting speed under full load (mm/s)	300	290	280	270	250
Maximum grade ability under full load (%)	16	15	15	15	12
Minimum outside turning radius (mm)	1440	1440	1550	1550	1658

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15. Use of Attachments, Installation and Safety Rules

In accordance with international standard ISO 2328 "Hook-on type fork arms and fork arm carriages -- Mounting dimensions", Utilev requires the use of matching attachments, which include flat clamps, rotating clamps, paper roll clamps, coil rams and side shifters.

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 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.

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12. Truck Carrying, Lifting and Towing

Carry

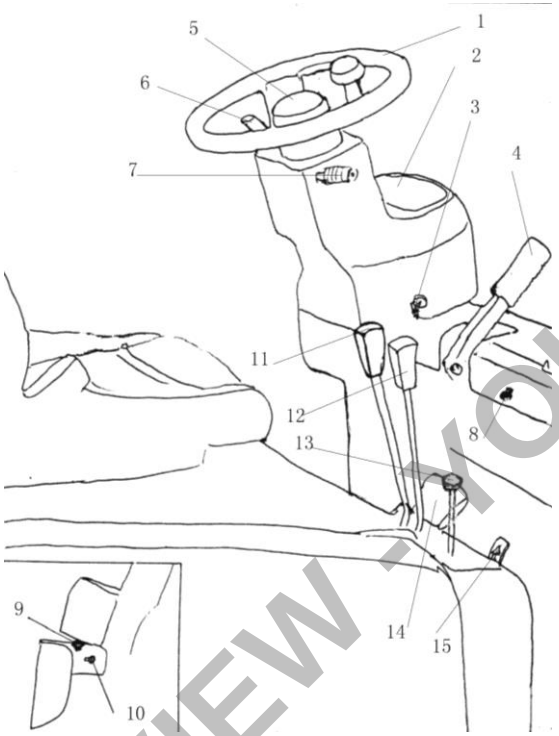
Forklift trucks are generally used for loading, unloading and short-distance transportation. They are not designed to be a long-distance mode of transport. A forklift that needs to be transported over a long distance should be transported in a ship, train or a truck having a load capacity of at least 5 tons. Use a loading platform or lifting device to load and unload a forklift truck.

Engage the hand brake and block the wheels with suitable chocks. Tie down the vehicle using ropes of sufficient strength to prevent it from sliding during transit.

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2. Instruments and Controls



1. Steering Wheel
2. Instrument Panel
3. Key Switch
4. Parking Brake Lever
5. Horn Button
6. Direction Switch
7. Combined Lamp Switch (Turn Signal & Front Work Lights)
8. Rear Light Switch (Not Used)
9. Emergency Disconnect Switch
10. Rear Work Light Switch
11. Lifting Lever
12. Tilting Lever
13. Control Valve Lever Lock Rod
14. Brake Pedal
15. Accelerator Pedal

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Stacking

- Slow down when approaching the deposit location.
- Stop the vehicle in front of the deposit location.
- Check the condition of the deposit location.
- Tilt the mast forward so the forks are parallel to the floor and raise them until they are slightly above the drop-off position.
- Inch forward until the load is over the drop-off position, then stop.
- After making sure that the load is squarely over the drop-off position, slowly lower the forks and then check that the load is safely deposited.
- To perform necessary lifting and tilt operations, reverse the forklift to remove the forks from the loads.
- Make sure that the fork tips are clear of the load, and then lower the forks to 15–20 cm off the ground.
- Tilt the mast all the way back

WARNING

- Do not tilt the mast when the load is raised above 2 m.
- Do not dismount or leave a vehicle unattended with a load elevated.

Unstacking

- Slow down when approaching the pick-up location.
- Stop when the forklift is 30 cm away from the load.
- Check the condition of the load.
- Tilt the mast forward until the forks are parallel to the floor, and then raise the forks to the level of the pallet or rack.
- Make sure that the forks are aligned with the pallet, move forward slowly and insert the forks all the way into the pallet, then stop.

NOTE

When it is difficult to insert the forks fully into the pallet, drive forward so that the forks are inserted to 3/4 of their length. Raise the forks by 5–10 cm, back up 10–20 cm, then lower the pallet or rack. Drive forward again until the forks are fully inserted.

- Raise the forks 5–10 cm off the stack.
- Look around the vehicle to make sure there are no obstacles in your path, then back up slowly.
- Lower the forks 15–20 cm off the ground, tilt the mast all the way back, then carry the load to its destination.

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Controller

Item	Service Required	Tools	Daily (8 hrs)	Weekly (40 hrs)	Monthly (166 hrs)	Every 3 Months (500 hrs)	Every 6 Months (1000 hrs)
Controller	Check condition of contacts					○	○
	Check mechanical movement of contactors					○	○
	Check pedal micro switches are functioning properly					○	○
	Check condition of connections between motor, battery and power unit					○	○
	Check controller faults to determine whether system is functioning properly						First Time 2 Years

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Model		UT13PTE	UT15PTE	UT16PTE	UT18PTE	UT20PTE
Minimum ground clearance (mm)		90	90	90	90	90
Maximum braking distance (m)		2.5	2.5	2.5	2.5	2.5
Dimensions	Length(to fork face) (mm)	1792	1792	1900	1900	2012
	Width (mm)	1060	1060	1060	1060	1120
	Height to overhead guard (mm)	1960	1960	1960	1960	1960
Service weight	Include battery box (kg)	2760	2950	3020	3080	3370
Battery	Standard (V/Ah)	48 / 400	48 / 400	48 / 500	48 / 500	48 / 600
Motor	Driven motor (kW)	4.75×2	4.75×2	4.75×2	4.75×2	4.75×2
	Pump motor (kW)	8.6AC	8.6AC	8.6AC	8.6AC	8.6AC
Controller	Driven controller	AC	AC	AC	AC	AC
	Pump controller	AC	AC	AC	AC	AC
	Manufacturer	Curtis	Curtis	Curtis	Curtis	Curtis
Tire	Front×2	18×7-8	18×7-8	18×7-8	18×7-8	200/50-10
	Rear×2	15×4.5-8	15×4.5-8	15×4.5-8	15×4.5-8	15×4.5-8

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- 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.

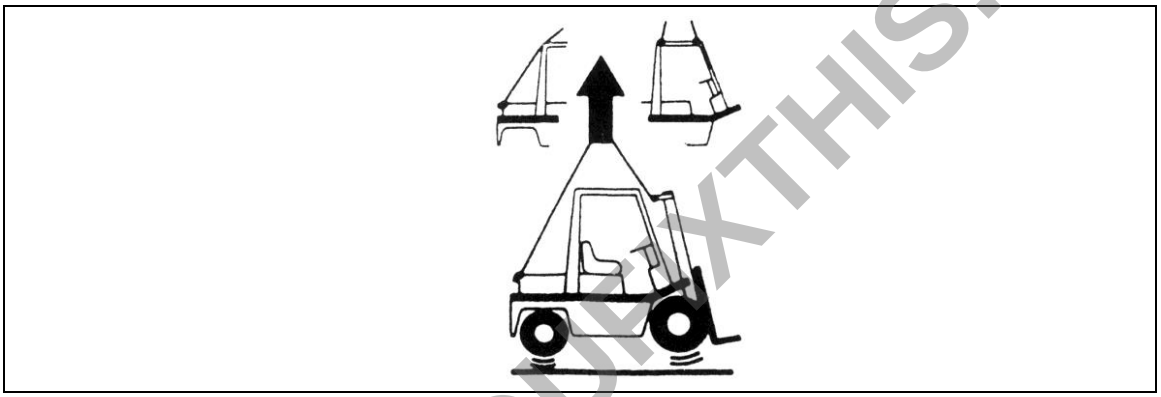
Use of Attachments

- Familiarize yourself with the information on the data plate of the forklift attachment. Carefully read the corresponding manuals before use, particularly the attachment manufacturer's user manual and installation instructions. Forklift truck attachments should be operated by trained and qualified personnel.
- You should familiarize yourself fully with the basic performance and operation of the forklift truck attachment. In particular, you should have detailed knowledge of the admissible load, lifting height, load dimensions and the scope of application of the attachment.
- When operating forklift attachments with side shift, clamp, rotation and other various functions, do not perform multiple tasks at the same time. Always finish one task before commencing another task.
- A forklift fitted with attachment must not be driven with a load in an elevated position. Drive in reverse if a bulky load obscures your forward view. When transporting a load, ensure that the bottom of the load is 300 mm off the ground and the mast is tilted backwards.

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Hoist the Truck



Securely fasten wire ropes to the lifting holes in both ends of the outer mast crossbar and to the counterweight hook, and then hoist the forklift with a lifting device. The wire rope fastened to the counterweight end must pass through the gap in the overhead guard, without putting stress on the overhead guard.

WARNING

When hoisting a forklift, make sure not to wrap the wire ropes around the overhead guard.
The wire ropes and lifting device must be strong enough to safely support the forklift, which is extremely heavy.
Do not lift a forklift by its cab frame (overhead guard).
Never walk under a forklift when it is being lifted.

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