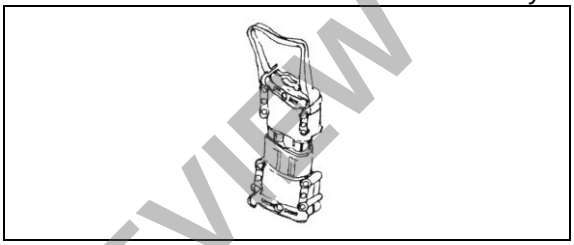
10. Operation

> **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

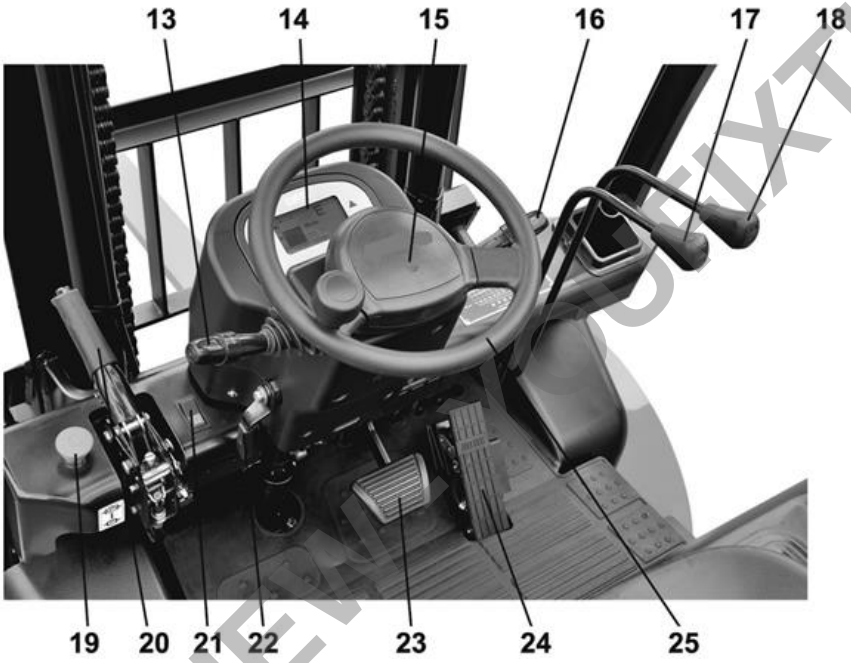
Slowly release the accelerator pedal, the forklift will slow down

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

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

2. Instruments and Controls



ITEM	DESCRIPTION
13	Forward/Reverse Switch
14	Multi-Function Display
15	Horn Button
16	Combination Light Switch
17	Lift Lever
18	Tilt Lever
19	Emergency Disconnect Switch
20	Parking Brake Lever
21	Warning Light Switch
22	Steering Wheel Tilt Lever
23	Brake Pedal
24	Accelerator Pedal
25	Steering Wheel

Download full manual at youfixthis.com

13.2 Maintenance Schedules

O - check, correct, adjust; X - 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		O	O	O	O
	Electrolyte Specific Gravity	Hydrometer		O	O	O	O
	Battery Power		O	O	O	O	O
	Check for Loose Connection Terminals		O	O	O	O	O
	Check For Loose Connection Cables		O	O	O	O	O
	Clean The Battery Surface		O	O	O	O	O
	Check for Tools Left on Battery		O	O	O	O	O
	Check that Vent Caps are Tight and Vents Unobstructed			O			
	Proximity to Open Flames		O	O	O	O	O

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

9. Routine Maintenance

Proper maintenance will keep the forklift truck in good working condition. It helps keep the forklift in a condition which will help optimize your personal safety at work.

> **⚠ WARNING**
> **Except when testing lights and checking operating performance, and before checking the electrical system, turn off the key switch and disconnect the battery plug.**
> **Never use a forklift that has any kind of fault.**
> **Even a small fault can cause a serious accident.**

1. Check for Leakage of Hydraulic Oil, Electrolytes and Brake Fluid

Check for oil spills or leakage around the hydraulic fittings, battery, and brake systems by carrying out a visual inspection. Never use an open flame.

2. Check Pneumatic Tires (Option)

Turn tire valve cap counter clock-wise and remove it. Using a tire pressure gauge, measure the inflation pressure, and adjust it to the specified pressure (using safety guidelines), if needed. After making sure there is no air leakage from the tire valve, reinstall the cap. Inspect the tires for wire, rocks, glass, pieces of metal, holes, cuts, and other damage on the tread surface or side face or bending at the rim.

> **⚠ WARNING (Pneumatic Only)**
> 1. Since the forklift truck needs tires that have a high inflation pressure to carry heavy loads, even a small bending of rims or damage at the tread surface could cause an accident.
> 2. When using an air compressor, first adjust the air pressure of the compressor. Failure to do so will cause a serious accident, since the compressor delivers the maximum pressure.
> 3. All nuts and bolts should be properly installed and tightened before inflating tire and rim assembly. An inflated tire contains potentially explosive energy. DO NOT overinflate. **The explosion of wheel parts can cause serious injury or death.**

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

4. Performance Parameters

Model	UT15PFE	UT18PFE	UT20PFE	UT25PFE	UT30PFE	UT35PFE
Rated Lifting Capacity (kg)	1500	1750	2000	2500	3000	3500
Load Center Distance (mm)	500	50	500	500	500	500
Standard Lift Height (mm)	3000	3000	3000	3000	3000	3000
Free Lift Height (mm)	145	145	140	140	145	145
Mast Tilt Angle (front/back) (°)	5/10	5/10	5/10	5/10	5/10	5/10
Maximum Travel Speed Under Full Load (km/h)	14/14	13.5/14	14/14	14/14	14/14	12/13
Maximum Lifting Speed Under Full Load (mm/s)	290/440	285/440	280/440	230/430	250/400	210/400
Maximum Grade Ability Under Full Load (%)	15/16	15/16	13/14	13/14	13/14	13/14
Minimum Outside Turning Radius (mm)	1900	1900	2090	2090	2230	2310

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.CO

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.

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.CO

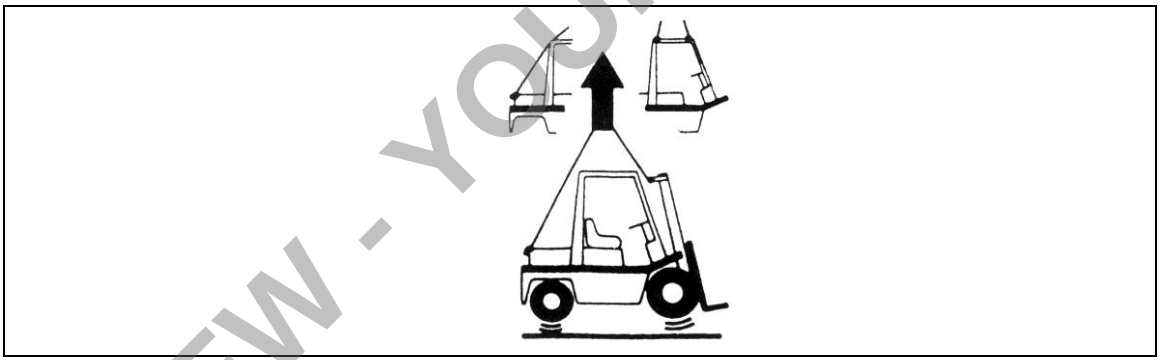
6. Truck Carrying, Lifting and Towing

Carry

Forklifts 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 sufficient load capacity. Use a loading platform or lifting device** to load and unload a forklift.

Engage the parking brake and block the wheels with suitable chocks. Tie down the forklift using wire ropes or other lashings of sufficient strength to prevent it from moving during transit.

Hoist the Truck



Securely fasten wire ropes or other lashings 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 or other lashings fastened to the counterweight end must pass through the gap in the overhead guard, without putting stress on the overhead guard.

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

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:

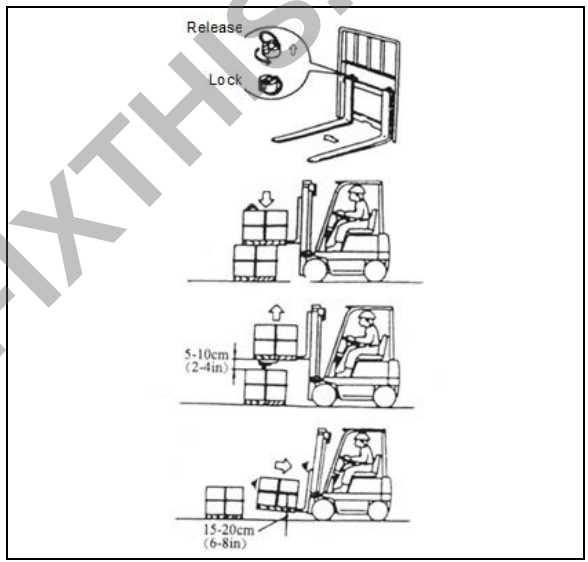
- Use 8.8 grade bolts in the important joint position.
- A bolt's grade can be found in the head of the bolt.

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.CO

10.6 Loading

- Adjust the spacing between the forks to ensure a well-balanced load.
- Position the forklift square to the load.
- Pallets should be placed symmetrically with respect to the forks.
- Insert the forks into the pallet as far as possible, but not into a pallet positioned behind the target pallet.
- Lifting the load:
  - First raise the forks 5–10 cm off the ground and make sure that the load is secure. If the load is not against the load backrest, move back slightly, set the load down, and fully engage the forks.
  - Tilt the mast the entire way back, raise the load 5–10 cm off the ground, and then move off.
- When a bulky load restricts vision, the forklift should be driven in reverse, except when driving up a gradient. If driving forward with a load that restricts vision, use the assistance of a spotter.



10.7 Stacking

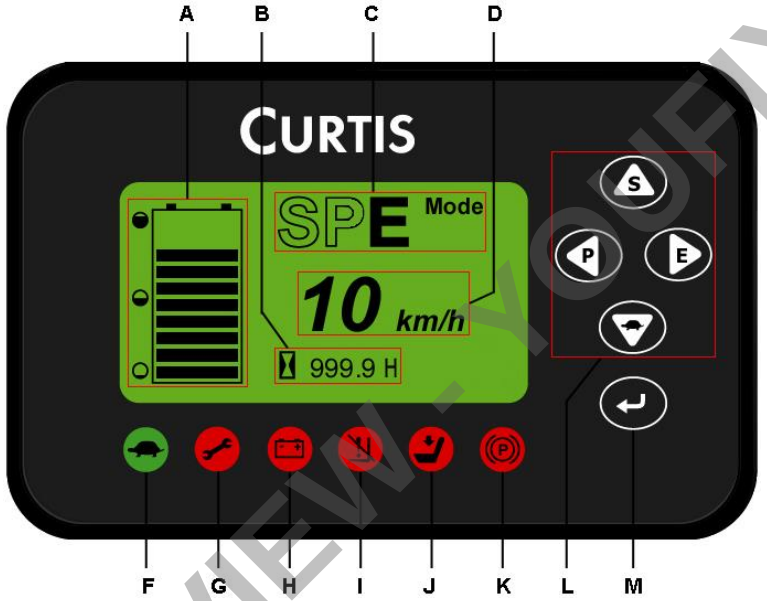
- Slow down when approaching the deposit location.
- Stop the vehicle in front of the deposit location.
- Check the condition of the deposit location.
- Tilt the mast forward so the forks are parallel to the floor and raise them until they are slightly above the drop-off position.

Download full manual at youfixthis.com

2.1 Instruments

Multi-Function Display [14]

The multi-function display shows battery capacity, service hours, operating mode, travel speed and fault code information. Graphic illustrations on the display act as warning indicators. Through the display's right button, it is also possible to check fault code and parameter settings.



ITEM	DESCRIPTION
A	Battery Capacity Indicator
B	Service Hours Meter
C	Operating Mode Indicator
D	Vehicle Speed or Fault Code Indicator
F	Slow Speed Indicator Light
G	Fault Indicator Light
H	Low Battery Indicator Light
I	Lifting Low Speed Indicator Light
J	Seat Switch Indicator Light
K	Parking Brake Applied Indicator Light
L	Mode Toggle / Menu Navigation Buttons
M	Menu Button

Download full manual at youfixthis.com

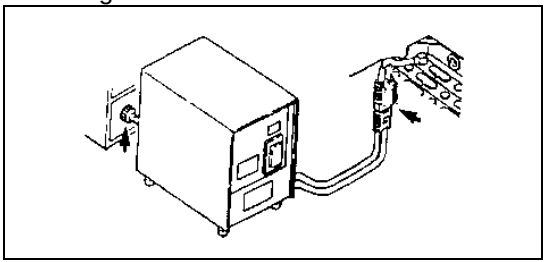
PREVIEW - YOUFIXTHIS.CO

Transmission System

Item	Operation	Tools	Daily (8 hours)	Weekly (40 hours)	Monthly (166 hours)	Every 3 Months (500 hours)	Every 6 Months (1000 hours)
Front Axle	Abnormal Noise		○	○	○	○	○
	Check for Oil Leakage		○	○	○	○	○
	Change Oil						X
	Check for Loose Wheel Bearings			○	○	○	○
	Check and Replace Grease					X	X
	Check for Leakage		○	○	○	○	○
	Check Tightening Torque of Wheel Bolts	Torque Wrench			○	○	○

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

- Do not charge the battery when the wires or socket are damaged.



- When charging, open the battery cover to release the explosive gases.
- During the charging process, do not disconnect the power switch or battery plug, as this may damage the plug and electrical components. Only disconnect the plug after pressing the “stop charging” button on the charger.

Charger

- When the charger is in use, its casing must be reliably grounded.
- When changing the fuse, disconnect the input and output circuits.
- Only qualified professionals are permitted to disassemble the charger casing for testing, inspection or maintenance.
- Do not modify or disassemble the charger.
- During the summer, take measures to prevent damage caused by charger overheating. If necessary, suspend work temporarily.
- If using other non-automatic chargers, adjust the charging voltage and current, control the charging time and measure the specific gravity of the battery electrolyte regularly to ensure the optimum state of charge of the battery bank. Adjust the parameters, referring to the "Battery Charging" section below.
- Never charge batteries continuously. Continuous charging of multiple batteries will overheat the charger and may even damage it. After charging, let the charger rest for an hour before re-using it.
- Select correct charger based on battery volt and capacity (see table below).

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.CO

PREVIEW ONLY

You're viewing 12 of 134 pages

The full manual includes:

- All 134 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Utilev UT15PFE, UT18PFE, UT20PFE, UT25PFE, UT30PFE, UT35PFE Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual