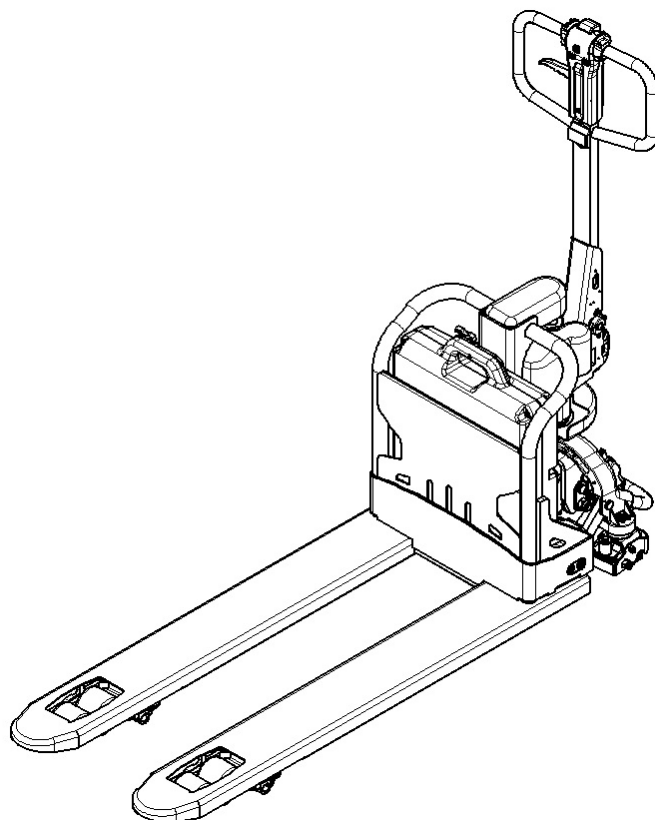


# INSTRUCTION HANDBOOK

## Easy Mover SPTE33X-PTE33X



### **WARNING**

Do not use the pallet truck before reading and understanding these operating instructions.

### **NOTE:**

- Please check the designation of your present type at the last page of this document as well as on the ID-plate.
- Keep for future reference.

Version 09/2017

SPTE33X/PTE33X-SMS-002-EN



## **FOREWORD**

Before operating the truck, read this ORIGINAL INSTRUCTION HANDBOOK carefully and understand the usage of the truck completely. Improper operation could create danger.

This handbook describes the usage of different electric pallet trucks. When operating and servicing the truck, make sure, that it applies to your type.

Keep this handbook for future reference. If this or the warning/ caution labels are damaged or got lost, please contact your local dealer for replacement.

This truck complies with the requirements according to EN 3691-1; -5 (Industrial trucks- safety requirements and verification, part 1; part 5), EN 12895 (Industrial trucks- electromagnetic compatibility), EN 12053 (Safety of industrial trucks- test methods for measuring noise emissions), EN 1175 (Industrial truck safety – electrical requirements), assumed the truck is used according to the described purpose.

The noise level for this machine is 60 dB(A) according to EN 12053.

### **ATTENTION:**

- Environmentally hazardous waste, such as batteries, oil and electronics, will have a negative effect on the environment, or health, if handled incorrectly.
- The waste packages should be sorted and put into solid dustbins according to the materials and be collected disposal by local special environment protection bureau. To avoid pollution, it's forbidden to throw away the wastes randomly.
- To avoid leaking during the use of the products, the user should prepare some absorbable materials (scraps of wooden or dry duster cloth) to absorb the leaking oil in time. To avoid second pollution to the environment, the used absorbable materials should be handed in to special departments in terms of local authorities.
- Our products are subject to ongoing developments. Because this handbook is only for the purpose of operating /servicing the pallet truck, therefore please have understanding, that there is no guarantee out of particular features out of this handbook.



**NOTE: On this manual, the left sign means warning and danger, which can lead to death or serious injury if not followed.**

### **Copyright**

The copyright remains with the company, mentioned on the CE- certificate at the end of this document.



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# 1. CORRECT APPLICATION

It is only allowed to use this electric pallet truck according to this instruction handbook.

The trucks in this handbook described are self propelled electric power pallet trucks, with electrically or manually operated low height lifting function. The trucks are designed to lift, lower and transport palletized loads.

A wrong usage can cause human injuries or can damage equipment.

The operator/ the operating company has to ensure the correct usage and has to ensure, that this pallet truck is used only by staff, which is trained and authorized to use this truck.

The pallet truck has to be used on substantially firm, smooth, prepared, level and adequate surfaces. The truck is intended to be used for indoor applications with ambient temperatures between +5°C and + 40°C and for light duty applications without crossing permanent obstacles or potholes. Operating on ramps is not allowed. While operating, the load must be placed approximately on the longitudinal centre plane of the truck. Lifting or transporting people is forbidden.

If used on tail lifts or loading ramps, please ensure that these are used correctly according to the operating instructions.

The capacity is marked on capacity sticker as well on the Identification plate. The operator has to consider the warnings and safety instructions. Operating lighting must be minimum 50 Lux.

## Modification

No modifications or alterations to this pallet truck which may 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 includes changes affecting, for example braking, steering, visibility and the addition of removable attachments. When the manufacturer or its successor approve a modification or alteration, they shall also make and approve appropriate changes to capacity plate, decals, tags and operation and maintenance handbooks.

By not observing these instructions, the warranty becomes void.

## 2. DESCRIPTION OF THE PALLET TRUCK

### a. Overview of the main components

- 1 Tiller
- 2 Drive control switch
- 3 Safety (belly) button
- 4 Indicator
- 5 Pump (PTE15X)
- 6 Drive wheel
- 7 Castors
- 8 Forks
- 9 Load rollers
- 10 Battery
- 11 Battery plug
- 12 Hydraulic cylinder
- 13 Key switch

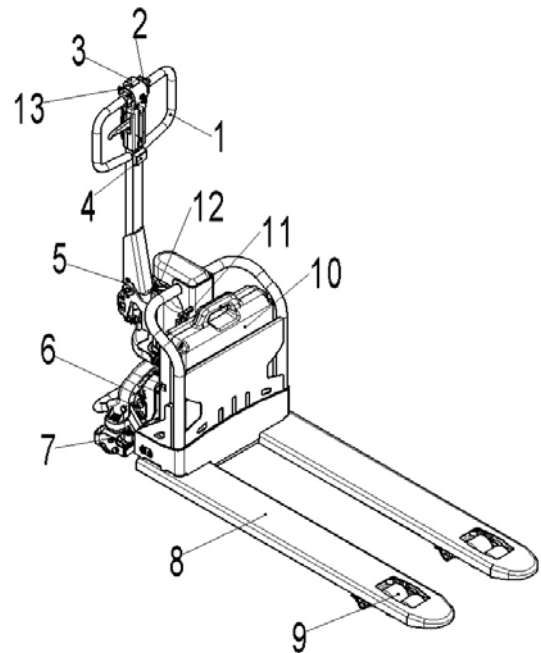


Fig. 1: Overview main components

### b. Main technical data

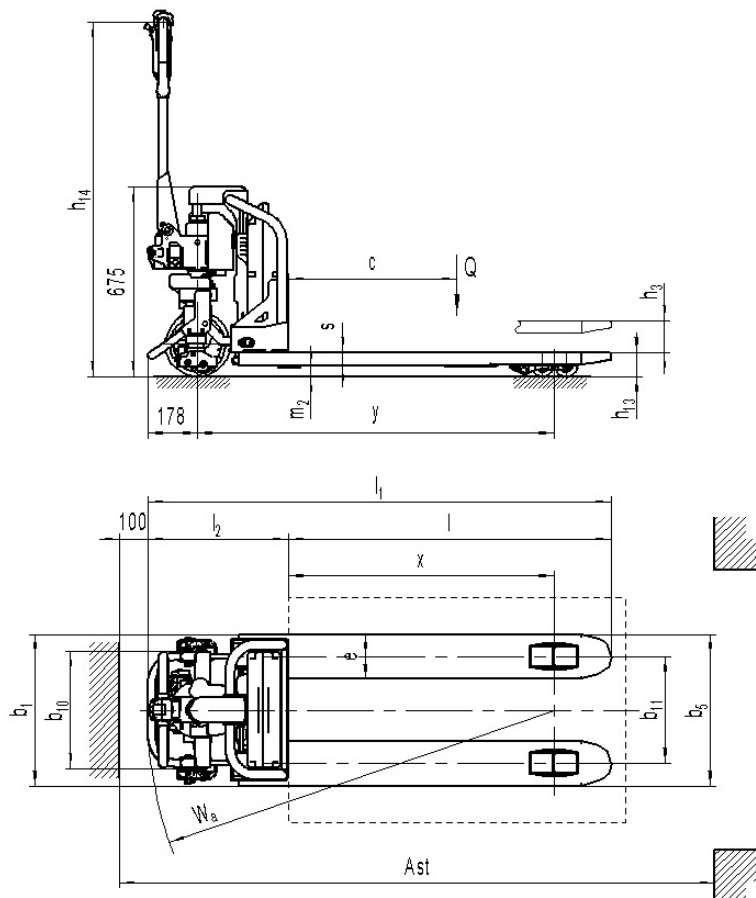


Fig. 2: Technical data

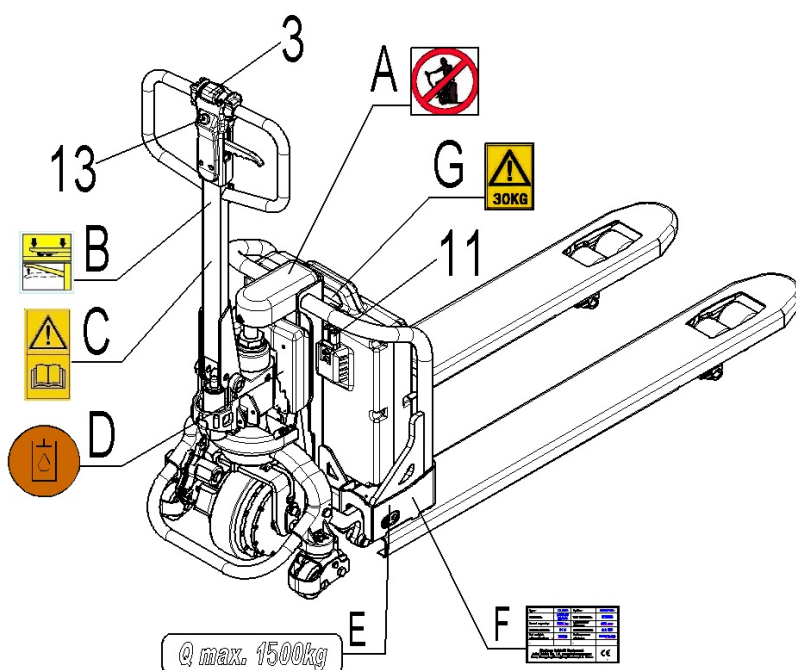


Table 1: Main technical data for standard version

Type sheet for industrial truck acc. to VDI 2198								
Distinguishing mark	1.2	Manufacturer's type designation			SPTE15X		PTE15X	
	1.3	Drive			Semi Electric		Electric	
	1.4	Operator type			Pedestrian			
	1.5	Load Capacity / rated load	Q (t)	lbs	1.5	3300	1.5	3300
	1.6	Load centre distance	c (mm)	in	600	23.6	600	23.6
	1.8	Load distance ,centre of drive axle to fork	x (mm)	in	947	40	947	40
	1.9	Wheelbase	y (mm)	in	1270	52.7	1270	52.7
Weight	2.1	Service weight	kg	lbs	165	363	165	363
	2.2	Axle loading, laden front/rear	kg	lbs	610/1055	1345/ 2318	610/1055	1345/ 2318
	2.3	Axle loading, unladen front/rear	kg	lbs	128/37	282/ 81	128/37	282/ 81
Tyres, chassis	3.1	Tires			Polyurethane (PU)			
	3.2	Tire size,front	Ø x w (mm)	in	Ø 230×61	Ø 9×2.4	Ø 230×61	Ø 9×2.4
	3.3	Tire size,rear	Ø x w (mm)	in	Ø 80×70	Ø3.15×3.66	Ø 80×70	Ø3.15×3.66
	3.4	Additional wheels(dimensions)	Ø x w (mm)	in	Ø 80×30	Ø3.15×1.18	Ø 80×30	Ø3.15×1.18
	3.5	Wheels,number front/rear(x=driven wheels)			1x +2/ 4	1x +2/ 2	1x +2/ 4	1x +2/ 2
	3.6	Tread, front	b <sub>10</sub> (mm)	in	420	16.5	420	16.5
	3.7	Tread, rear	b <sub>11</sub> (mm)	in	380	20.7	380	20.7
Dimensions	4.4	Lift	h <sub>3</sub> (mm)	in	115	4.5	115	4.5
	4.9	Height of tiller in drive position min./ max.	h <sub>14</sub> (mm)	in	840 / 1260	33/ 49.6	840 / 1260	33/ 49.6
	4.15	Height, lowered	h <sub>13</sub> (mm)	in	85	3.15	85	3.15
	4.19	Overall length	l <sub>1</sub> (mm)	in	1650	67.6	1650	67.6
	4.20	Length to face of forks	l <sub>2</sub> (mm)	in	501	19.6	501	19.6
	4.21	Overall width	b <sub>1</sub> (mm)	in	540	27	540	27
	4.22	Fork dimensions	s/e/l (mm)	in	48/160/1150	1.9/6.3/48	48/160/1150	1.9/6.3/48
	4.25	Distance between fork-arms	b <sub>5</sub> (mm)	in	540	27	540	27
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	in	37	1.46	37	1.46
	4.34	Aisle width for pallets 800X1200 lengthways	Ast (mm)	in	2120	84.9	2120	84.9
	4.35	Turning radius	Wa (mm)	in	1450	59.8	1450	59.8
Performance data	5.1	Travel speed, laden/unladen	km/h	mph	4.8/ 5.0	3.0/3.1	4.8/ 5.0	3.0/3.1
	5.2	Lift speed, laden/unladen	m/s	fpm	—	—	0.032/ 0.045	6.3/ 8.85
	5.3	Lowering speed, laden/unladen	m/s	fpm	0.088/0.088	17.3/ 17.3	0.03/ 0.03	5.9/ 5.9
	5.8	Max.gradeability, laden/ unladen	%		3.5/ 20			
	5.10	Service brake			Motor Braking+EPB(Optional)			
c	6.1	Drive motor rating S2	kW	HP	0.5	0.67	0.5	0.67

		60min						
	6.2	Lift motor rating at S3 10%	kW	HP	—	—	0.8	1
	6.3	Battery acc. to DIN 43531/ 35/ 36 A, B, C, no			No			
	6.4	Battery voltage, nominal capacity K5	V / Ah		48V / 20			
	6.5	Battery weight	kg	lbs	30	66	30	66
	6.6	Energy consumption acc. to VDI cycle	kWh/h		0.2			
Addition data	8.1	Type of drive control			AC speed Control			
	8.4	Sound level at driver's ear acc. to EN 12053	dB(A)		<60			

### c. Description of the safety devices and warning labels



**Fig. 3:** Safety and warning labels

- |   |                                   |
|---|-----------------------------------|
| A 'No passengers' decal                       | F Identification plate (ID-plate) |
| B Operating instruction sticker               | G Weight sticker (Battery)        |
| C Sticker to read and follow this instruction |                                   |
| D Oil filling point                           |                                   |
| E Capacity sticker                            |                                   |

The truck has a battery plug(11) which stops all lifting-, lowering-, driving- functions and engages the parking brake(EPB) when it is disconnected. Remove this plug, if you not operate the truck.

Before operating, insert the key and turn the key switch (13) clockwise. To prevent against unauthorized access, turn the key anti-clockwise and remove it, if you not

operate this truck.

The truck is equipped with a safety (belly) button (3) which switches the driving function away from the operator, if the truck travels towards the operator and the tiller is activated in the tillers operating zone.

Follow also the instructions given on the decals. Replace the decals if they are damaged or missing.

#### d. Identification plate

- |   |  |    |                                  |
|---|--|----|----------------------------------|
| 1 | Designation, type                            | 6  | Name and address of manufacturer |
| 2 | Serial number                                | 7  | Battery weight minimum/ maximum  |
| 3 | Rated capacity in kg                         | 8  | Nominal power in kW              |
| 4 | Supply voltage in V                          | 9  | Load center distance             |
| 5 | Own mass (self weight) in kg without battery | 10 | Manufacturing date               |
|   |  | 11 | Option                           |




1	Type	xx xx	Option	xx X xxx	11
2	Serial No.	xxxxx	Year of Manuf.	MM/YYYY	10
3	Rated capacity	xxxx kg	Load center distance	xxx mm	9
4	System voltage	xx V	Nominal power	xx kW	8
5	Net weight without battery	xxx kg	Battery mass min/max	xxx / xxx kg	7
6	XXXX XXXX XXXXXXXX xx XXXXX / XXXXX				If sold to the EU, here the place of the CE marking 

Fig. 4: Identification plate

### 3. WARNINGS, RESIDUAL RISK AND SAFETY INSTRUCTIONS

#### **DO NOT**

- 
- Put foot or hand under or into the lifting mechanism.
  - Allow other person than the operator to stand in front of or behind the truck when it is moving or lifting/lowering.
  - Overload the truck.
  - Put foot in front of the wheels, injury could result.
  - Lift people. People could fall down and suffer severe injury.
  - Push or pull loads
  - Use this truck on ramps
  - Side or end load. Load must be distributed evenly on the forks.
  - Use the truck with unstable, unbalanced not stable load.
  - Use truck without manufacturer's written consent.

- Supply on board charger with AC voltage other than 100V or 240V.

Watch difference in floor levels when driving. Load could fall down or the truck could get uncontrollable.

Keep watching the condition of load. Stop operating the truck if load becomes unstable. Brake the truck and activate the emergency switch (3) by pushing when sliding load on or off the truck. If the truck has any malfunctions, follow chapter 8.

Practice maintenance work according to regular inspection. This truck is not designed to be water resistant. Use the truck under dry condition. Prolonged continuous operation might cause damage of the power pack. Stop operation if temperature of hydraulic oil is too high.



- When operating the electric pallet truck, the operator has to wear safety shoes.
- The truck is intended to be used for indoor applications with ambient temperatures between +5°C and + 40°C.
- The operating lighting must be minimum 50 Lux.
- It is not allowed to use the truck on ramps.
- To prevent unintended sudden movements when not operating the truck (i.e. from another person, etc.) switch off the truck when not operating it.

## 4. COMMISSIONING, TRANSPORTING, DECOMMISSIONING

### a. Commissioning

Table 2: Commissioning data

Type	SPTE15X/PTE15X
Commissioning weight [kg]	app.160 kg
Dimensions [mm]	1750x700x900

After receiving our new pallet truck or for re-commissioning you have to do following before (firstly) operating the truck:

- Check if are all parts included and not damaged
- Eventually installation and charging the batteries (follow chapter 7)
- Do the work according to the daily inspections as well as functional checks.

### b. Lifting/ transportation

For transporting, remove the load, lower the forks to the lowest position and fix the truck safe with dedicated lifting gear according to the following figures.

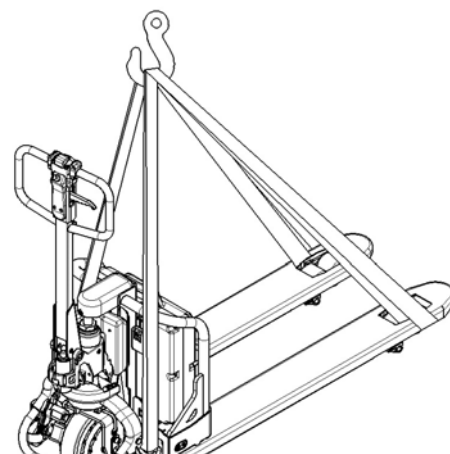


Fig.5: Lifting with a crane

## Lifting



USE DEDICATED CRANE AND LIFTING EQUIPMENT  
DO NOT STAND UNDER THE SWAYING LOAD  
DO NOT WALK INTO THE HAZARDOUS AREA DURING LIFTING

Park the truck securely and lash the truck according to the points identified in fig. 5  
Lift the truck to its destination and place the truck securely before removing the lifting gear.  
The lashing points are according to the fig. 5.

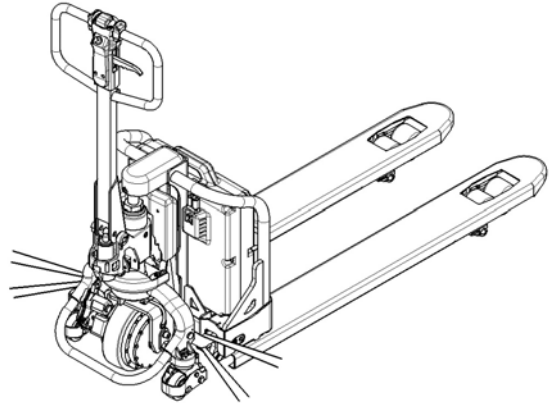


Fig. 6: Fixing points

## Transportation



DURING TRANSPORTATION ON A LORRY OR TRUCK ALWAYS FASTEN THE TRUCK SECURELY

Lower the forks and park the truck securely.  
Fasten the truck according to fig. 6 by slinging dedicated lashing belts around both sides of the trucks torsion arms and fasten the other side at the transporting truck.

### c. Decommissioning

For storage, remove the load, lower the truck to the lowest position, grease all in this handbook mentioned greasing points (regular inspection), eventually protect the truck against corrosion and dust. Remove the batteries and jack the truck safety, so that there will be no flattening after storage.

For final decommissioning hand the truck to a designated recycling company. Oil, batteries and electric components must be recycled due to legal regulations.

## 5. DAILY INSPECTION

This chapter describes pre-shift checks before putting the truck into operation. Daily inspection is effective to find the malfunction or fault on this truck. Check the truck on the following points before operation.

Remove load from truck and lower the forks.

DO NOT USE THE TRUCK IF ANY MALFUNCTION IS FOUND.



- Check for scratches, deformation or cracks.
- Check if there is any oil leakage from the cylinder.
- Check the vertical creep of the truck.
- Check the smooth movement of the wheels.

- Check the function of the emergency brake by activating the emergency button.
- Check, the tiller arm- switch braking function
- Check the lifting and lowering functions by operating the buttons.
- Check if all bolts and nuts are tightened firmly.
- Visual check if there are any broken hoses or broken electric wires.

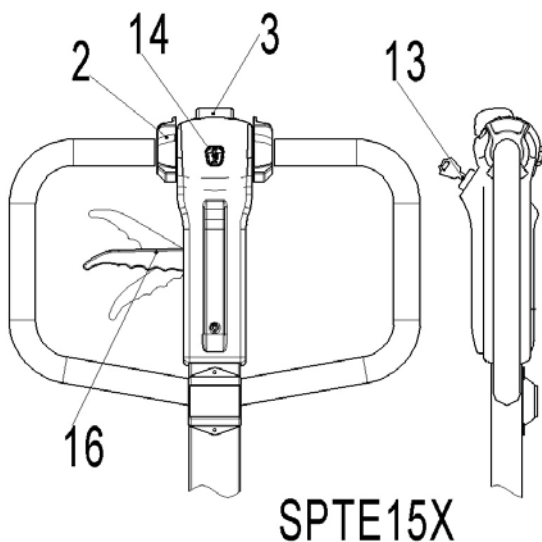
## 6. OPERATING INSTRUCTIONS



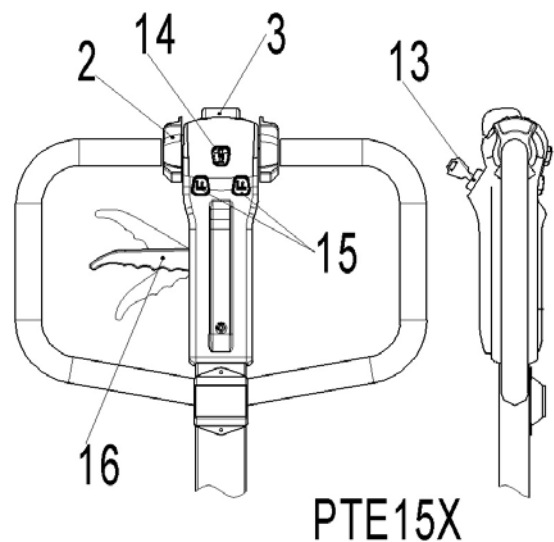
BEFORE OPERATING THIS TRUCK, PLEASE FOLLOW THE WARNINGS AND SAFETY INSTRUCTIONS (CHAPTER 3).

Make sure, that the load is palletized and stable and that the daily inspection is carried out.

Connect the battery plug (11), insert the key and turn the key switch (13) clockwise. Press the horn button (14) to activate the audible warning signal.



SPTE15X



PTE15X

Fig.7: Tiller operating controls

### a. Parking



**DO NOT PARK THE TRUCK ON INCLINED SURFACES**

The truck is equipped with service brake and EPB (Optional).

Lower the forks fully , disconnect the battery plug ( 11 ) , remove the key.

### b. Lifting



DO NOT OVERLOAD THE TRUCK! THE MAXIMUM CAPACITY IS 1500 kg

Travel with the lowered forks fully underneath the pallet and shift operating lever (16) down to the raise position. For SPTE15X, through press the tiller to lift the load; for PTE15X ,through press the lifting button(15) to lift the load to the desired height.

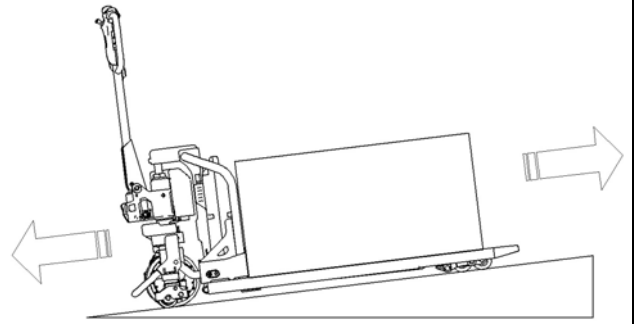


Fig. 8: Load facing uphill

### c. Lowering

Lower the load by shift the operating lever (16) up to the lowering position carefully. By releasing the lever, the lowering movement will stop. Ensure that there is adequate clearance behind, then drive the truck carefully out of the load unit.

### d. Travelling



TRAVEL ON INCLINES ONLY WITH THE LOAD FACING UPHILL.

DO NOT TRAVEL ON INCLINES MORE THAN SPECIFIED WITH THE TECHNICAL DATA.

Connect the battery plug (11), insert the key and turn the key switch (13) clockwise, move the tiller to the operating one ('F', fig.9).

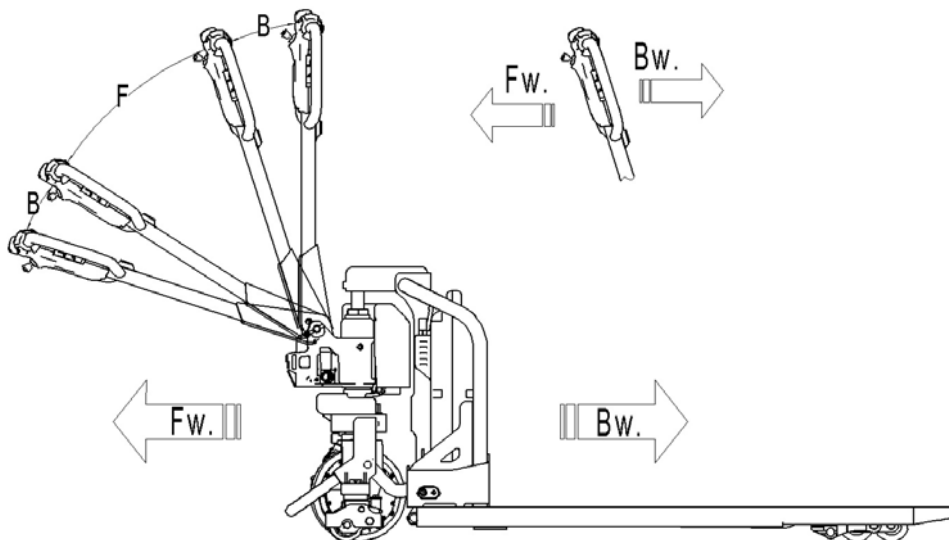


Fig. 9: Operating direction

Turn the accelerator button(2) to the desired direction forward 'Fw.' or backwards Bw.'(fig. 9).

Control the travelling speed by moving the accelerator button(2) carefully until you reached the desired speed.

If you move the accelerator button back to the neutral position, the controller decelerates the truck until the truck stops. If the truck stopped, the parking brake will be engaged (EPB).

Drive carefully the truck to the destination. Watch the route conditions and adjust the travelling speed with the accelerator- button.

#### e. Steering

You steer the truck by moving the tiller to the left or right side.

#### f. Braking



THE BRAKING PERFORMANCE DEPENDS ON THE TRACK CONDITIONS AND THE LOAD CONDITIONS OF THE TRUCK

The braking function can be activated on several ways:

- By moving the accelerator button (2) back to the initial '0' position or by releasing the button, the regenerative braking is activated. The truck brakes until it stops.
- By moving the accelerator button (2) from one driving direction directly to the opposite direction, the truck brakes regenerative until it starts travelling into the opposite direction.
- The truck brakes, if the tiller is moved up or down to the braking zones ('B'). If the tiller is released, the tiller moves automatically up to the upper braking zone ('B'). The truck brakes until it stops.
- The safety (belly) button (3) prevents the operator from being crushed. If this button is activated, the truck decelerates and or starts travelling into the backwards direction ('Bw.') for a short distance and stops. At the same time the accelerator doesn't work, turn off the key switch and turn on to activate the accelerator

#### g. Malfunctions

If there are any malfunctions or the truck is inoperative, please stop using the truck. If possible, park the truck on a safe area and remove the battery plug(11). Inform immediately the manager and, or call your service.

#### h. Emergency

In emergencies, disconnect the battery plug (11). All electrical functions will be stopped. Keep safe distance.

## 7. BATTERY CHARGING AND REPLACEMENT



- Only qualified personnel are allowed to service or charge the batteries. The instructions of this handbook and from the battery- manufacturer must be



observed.

- These batteries are maintenance free; re- filling is prohibited.
- Recycling of batteries undergoes national regulations. Please follow these regulations.
- By handling batteries, open fire is prohibited, gases could cause explosion!
- In the area of battery charging neither burning materials nor burning liquids are allowed. Smoking is prohibited and the area must be ventilated.
- Park the truck securely before starting charging or installing/changing the batteries
- Before finishing the maintenance work, make sure, that all cables are connected correctly and that there are no disturbing towards other components of the truck.

As standard batteries, the truck is equipped with following sealed liquid acid battery-types:

4 pc 12V/ 20Ah



IT IS ONLY ALLOWED TO USE SEALED LIQUID ACID BATTERIES.

THE WEIGHT OF THE BATTERIES HAS AN INFLUENCE TO THE TRUCKS OPERATING BEHAVIOR.

PLEASE CONSIDER THE MAXIMUM OPERATING TEMPERATURE OF THE BATTERIES.

#### a. Replacement



Park the truck securely, turn off the key switch and remove the battery plug (11).

Lift the battery unit(17), take out and place aside. Place the new batteries with the terminal- positions according to fig. 10. The installation is in the reverse order of the removal.

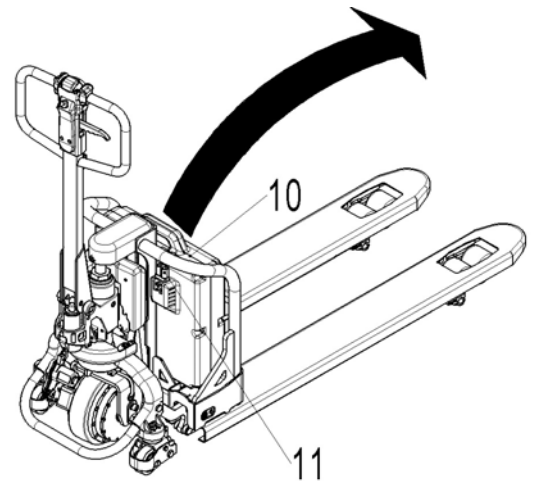


Fig.10:Replace the battery

#### b. Battery indicator

The number showed by the voltmeter represents the rest electric quantity percentage.

When the voltmeter shows 20,it means the batteries still have 20% electricity,the power is not enough for further operation and need to charge.

when the voltmeter shows 10,need to charge immediately .

The direction of the number showed by voltmeter is comfortable for the operator to read (fig.11)

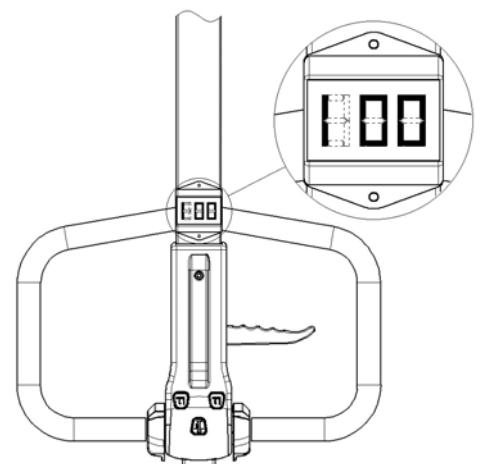


Fig.11: Battery discharge indicator

### c. Charging



- The attached automatic charger is only available for the optional voltage of 100V or 240V as referred.
- The room, where you are charging must be ventilated.

Park the truck at a dedicated secured area with a dedicated power supply.

Disconnect the battery plug (11), take out the battery. Connect the external charger plug to the power supply first, the charging status indicator lights up, then connect the battery to the charger. After a few seconds, the charger goes into the charging mode (charging status indicator: please refer to the instruction on the truck);

If the charger does not turn into charging mode, it means the battery voltage is too low, the polarity is connected reversely or connection terminal is not well connected.

When charging is finished, disconnect the connector from the socket and place it in the designated pocket.

## 8. Restore to Hand Pallet Truck

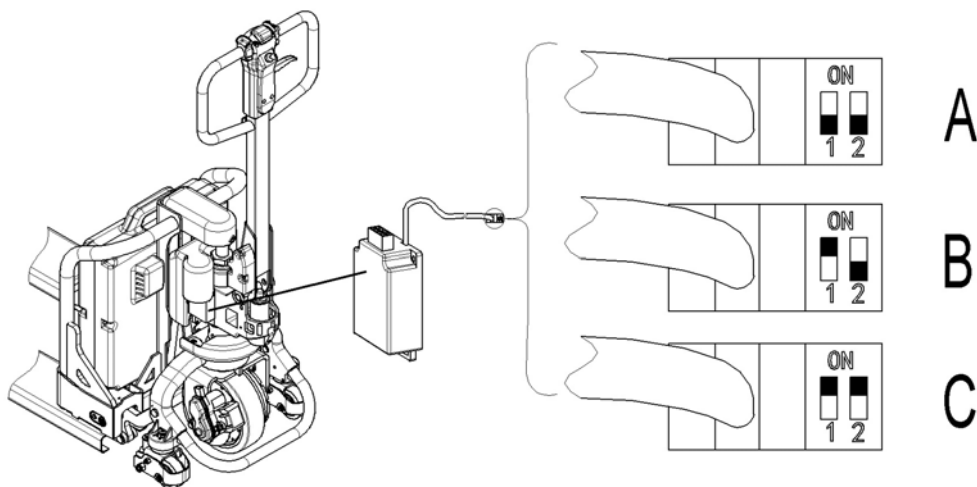
Parking brake of this truck can be released. When the battery is fully discharged or fault of electrical parts which can cause no driving of the truck, then release parking brake by turn off the key switch and pull the truck manually. For SPTE15X, when electrical parts exceed the lifetime and not work at all, parking brake function can be released on several ways:

### a. Release the parking brake by EPB module

EPB parking brake module is shown in Fig.12, mode shift switch is connected by cable and fixed inside the electrical controller cover. Switch 1 and 2 are turned off in initial status (status A).

- Turn on key switch and switch 1 (status B)
- Activate accelerator and drive the truck for a short distance, then parking brake works
- Turn on switch 2 (status C) to keep parking brake being released

Turn off switch 1 and 2 (status A) to restore parking brake function.



**Fig.12:** Parking brake release by EPB module

## b. Release the parking braking by mechanical method

Disassemble the parking brake power pack, as shown in Fig.13. Put the tool into the hole and turn anti-clockwise.

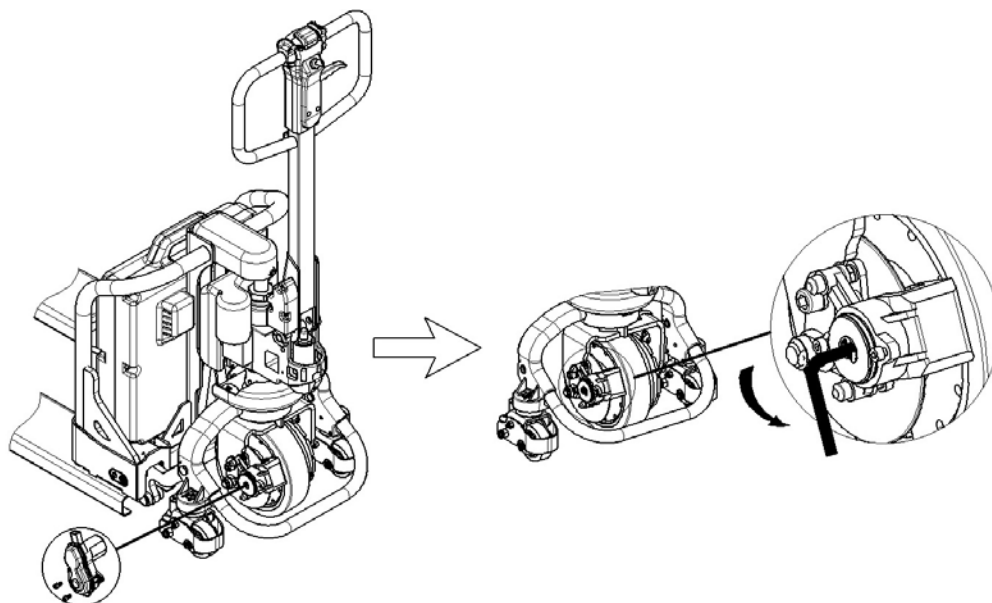


Fig.13: Release parking brake manually

## 9. REGULAR MAINTENANCE



- Only qualified and trained personnel are allowed to do maintenance on this truck.
- Before maintaining, remove the load from the forks and lower the forks to the lowest position.
- If you need to lift the truck, follow chapter 4d by using designated lashing or jacking equipment. Before working, put safety devices (for instance designated lift jacks, wedges or wooden blocks) under the truck to protect against accidental lowering, movement or slipping.
- Please pay attention by maintain the tiller arm.
- Use approved and from your dealer released original spare parts.
- Please consider, that oil leakage of hydraulic fluid can cause failures and accidents.
- It is allowed to adjust the pressure valve only from trained service technicians.

If you need to change the wheels, please follow the instructions above. The castors must be round and they should have no abnormal abrasion.

Check the items emphasized maintenance checklist.

### a. Maintenance checklist

Table 3: Maintenance checklist

		Interval		
		Monthly	6 Month	12Month
Hydraulic				
1	Check the hydraulic cylinder, piston for damage noise and leakage	•		•
2	Check the hydraulic connections and hose for damage an leakage			•

3	Check the hydraulic oil level, refill if necessary			•
4	Refill the hydraulic oil after 1500 working hours			•
5	Check the function of the pressure valve (1200kg +0/+10%)			•
Mechanical system				
6	Check the forks for deformation and cracks			•
7	Checks the chassis for deformation and cracks			•
8	Check if all screws are fixed			•
9	Check the push rods for deformation and damages			•
10	Check the gearbox for noise and leakage			•
11	Check the wheels for deformation and damages			•
12	Lubricate the steering bearing			•
12	Lubricate the pivot points		•	
14	Lubricate the grease nipples	•		
Electrical system				
15	Check the electric wiring for damage			•
16	Check the electric connections			•
17	Test the Emergency switch function			•
18	Check the electric drive motor for noise and damages			•
19	Test the display			•
20	Check the, if correct fuses are used			•
21	Test the warning signal			•
22	Check the contactors			•
23	Check the frame leakage (insulation test)			•
24	Check function and mechanical wear of the accelerator			•
25	Check the electrical system of the drive motor			•
Battery				
26	Check the battery voltage			•
27	Check the terminals for corrosion and damage			•
28	Check the battery housing for damages			•
Charger				
29	Check the main power cable for damages			•
30	Check the start-up protection during charging			•
Function				
31	Check the horn function			•
32	Check the air gap of the electromagnetic brake			•
33	Test the emergency braking			•
34	Test the reverse and regenerative braking			•
35	Test the safety (belly) button function			•
36	Check the steering function			•
37	Check the lifting and lowering function			•
38	Check the tiller arm switch function			•
General				
39	Check if all decals are legible and complete			•
40	Carry out a test run			•

## b. Lubricating points

Lubricate the marked points according to the maintenance checklist. The required grease specification is: DIN 51825, standard grease.

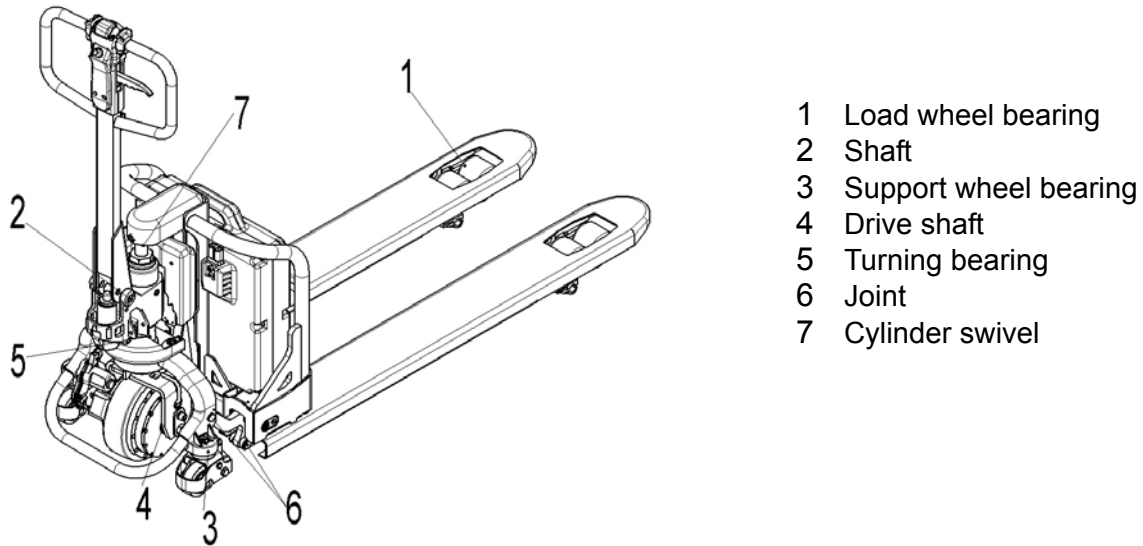


Fig. 14: Lubricating points

## c. Check and refill hydraulic oil

The required hydraulic fluid- type is

- H-LP 46, DIN 51524
- Viscosity is 41.4 - 47
- Depending on the type the amount is ~0.3L to 0.35L

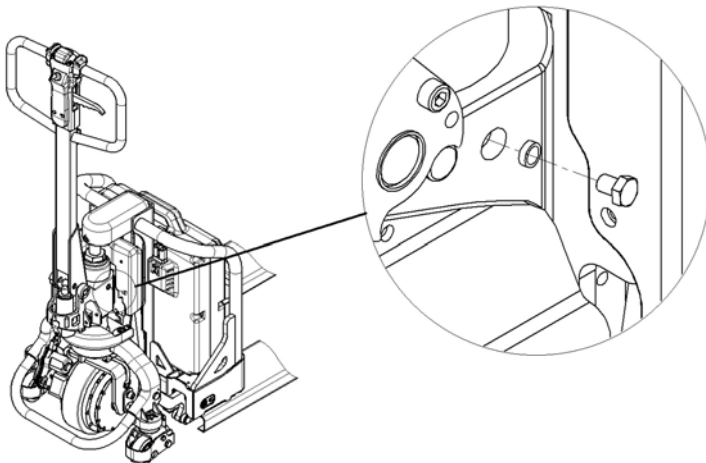


Fig. 15: Oil filling point

Waste material like oil, used batteries or other must be probably disposed and recycled according to the national regulations and if necessary brought to a recycling company.

#### d. Checking electrical fuses

Remove the main cover. The fuses are located according to fig. 16.

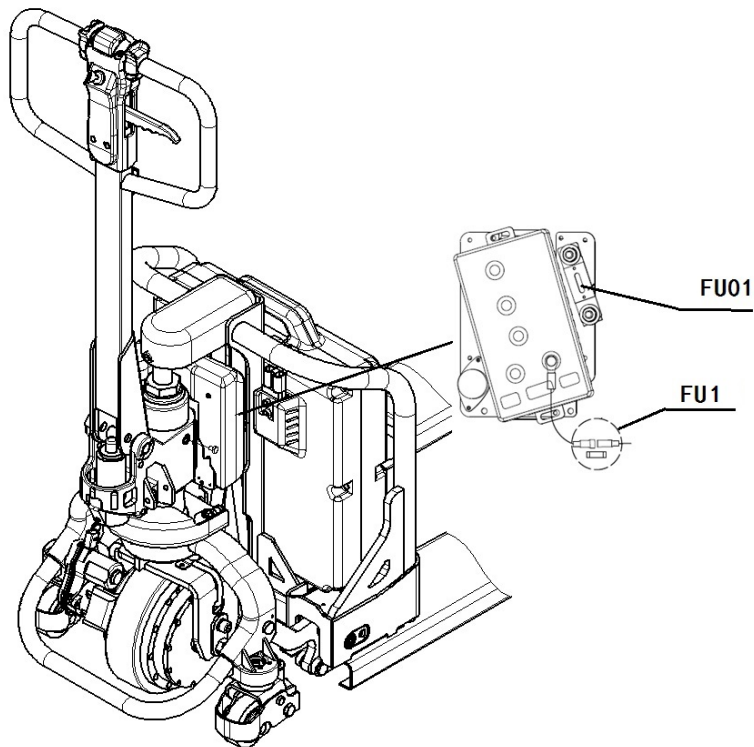


Fig. 16: Location fuses

Table 4: Size fuses

	Rate
FU 01	60A
FU 1	6A

## 10. TROUBLE SHOOTING



- If the truck has malfunctions follow the instructions, mentioned under chapter 6.

Table 5: Trouble shooting

TROUBLE	CAUSE	REPAIR
Load can't be lifted	Load weight too high	Lift only the max. capacity, mentioned on the ID-plate
	Battery discharged	Charge the battery
	Lifting fuse faulty	Check and eventually replace the lifting fuse
	Hydraulic oil level too low	Check and eventually refill hydraulic oil
	Oil leakage	Repair the hoses and/or the sealing of the cylinder
Oil leakage from air breathing	Excessive quantity of oil.	Reduce oil quantity.
Load can't be lowered	Manual bowden cable unhooked	Adjust the Bowden cable correctly
Truck not starts operating	Battery is charging	Charge the battery completely and then remove the main power plug form the electrical socket.
	Battery not connected	Connect the battery correctly
	Fuse faulty	Check and eventually replace fuses
	Low battery	Charge the battery
	Combined emergency switch is activated	De-activate the combined emergency switch by insert and pull the knob.
	Tiller in the operating zone	Move the tiller firstly to the braking zone.

If the truck has malfunctions and can't be operated out of the working zone, jack the truck up and go with a load handler under the truck and safe the truck securely. Then move truck out of the aisle.

## 11. WIRING/ CIRCUIT DIAGRAM

### a. Electrical circuit diagram

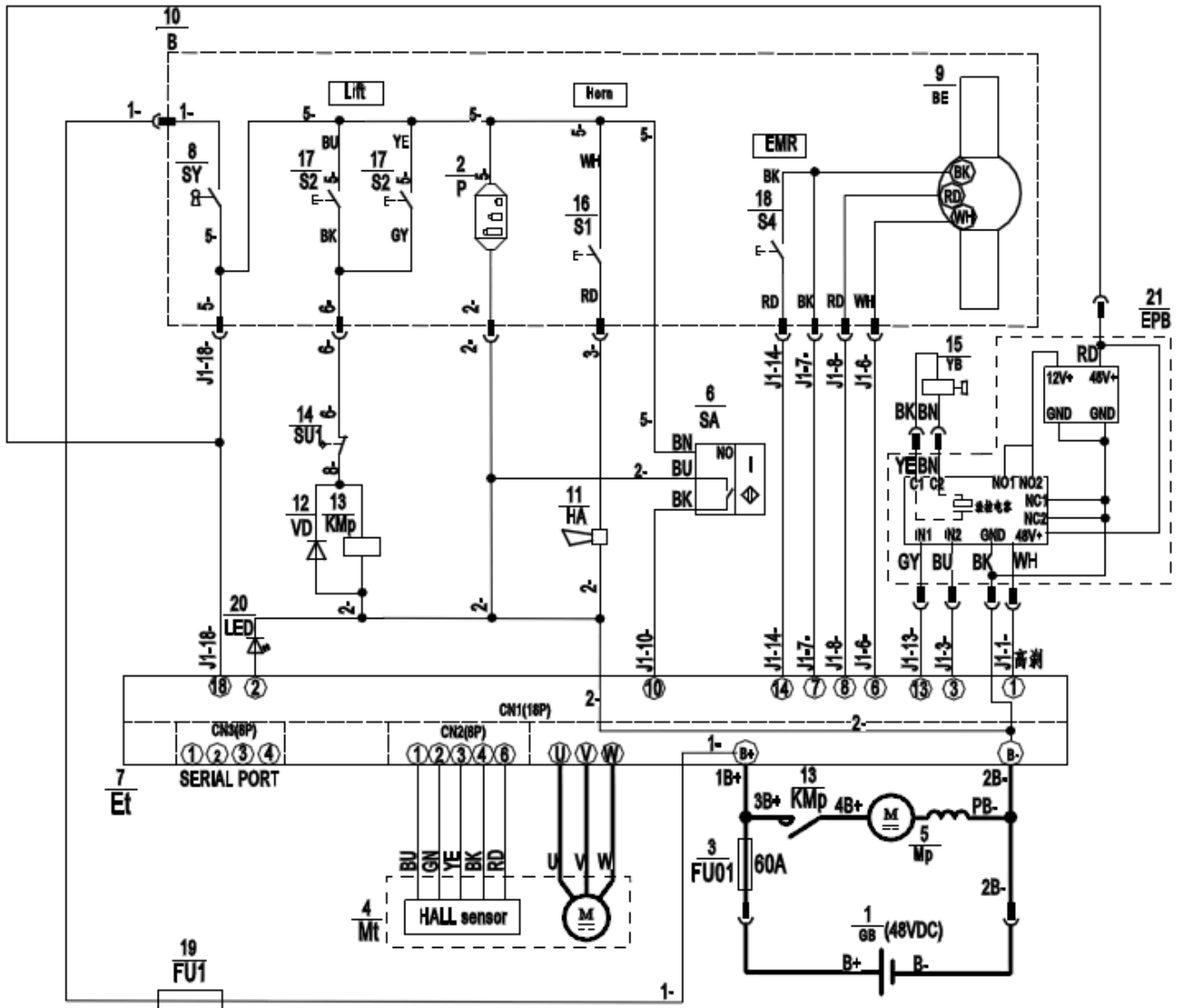


Fig. 17: Electric diagram(PTE15X)

FU 01 : 60A

FU 1 : 6A



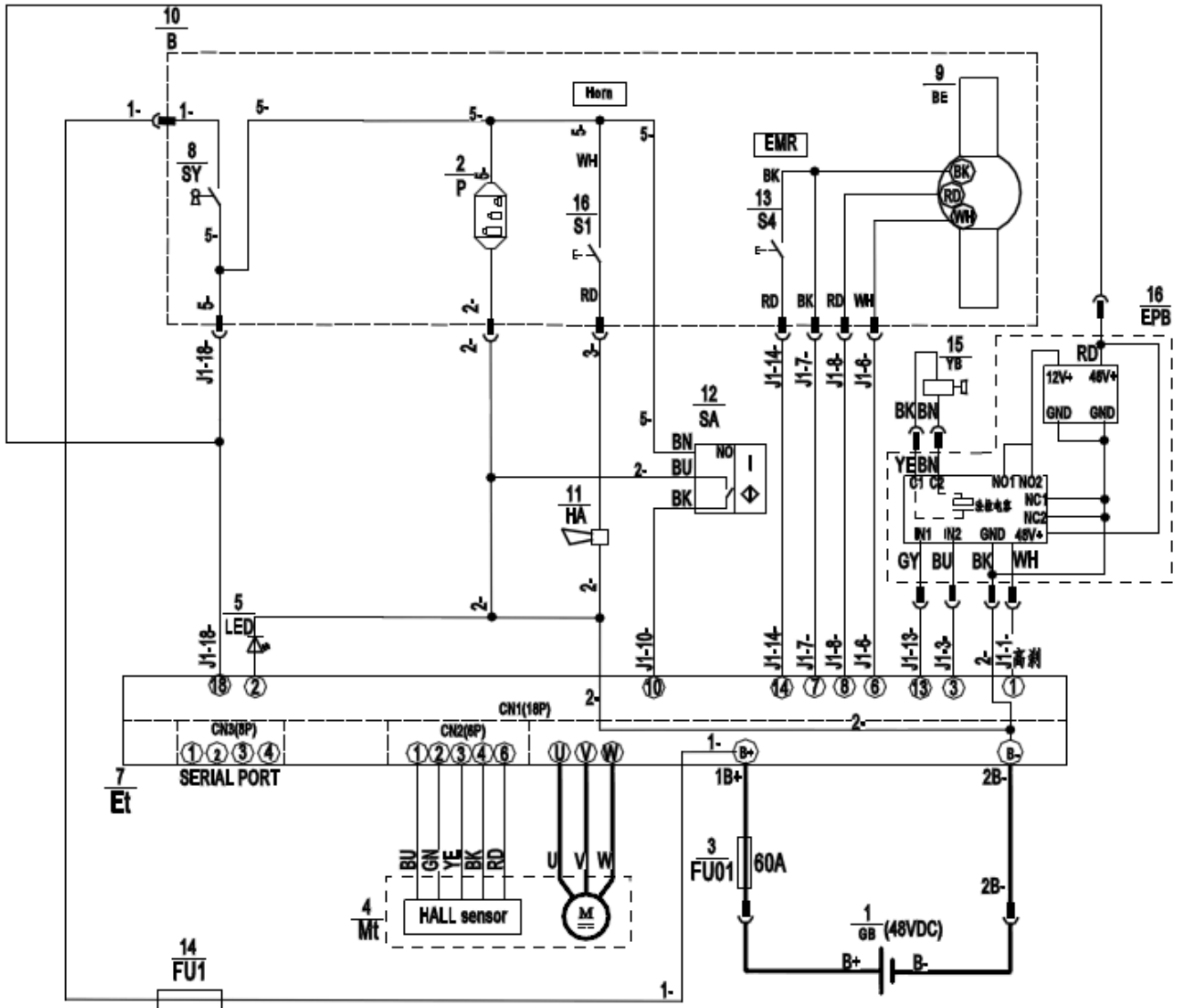


Fig. 18: Electric diagram(SPTE15X)

FU 01 : 60A

FU 1 : 6A

## b. Hydraulic circuit

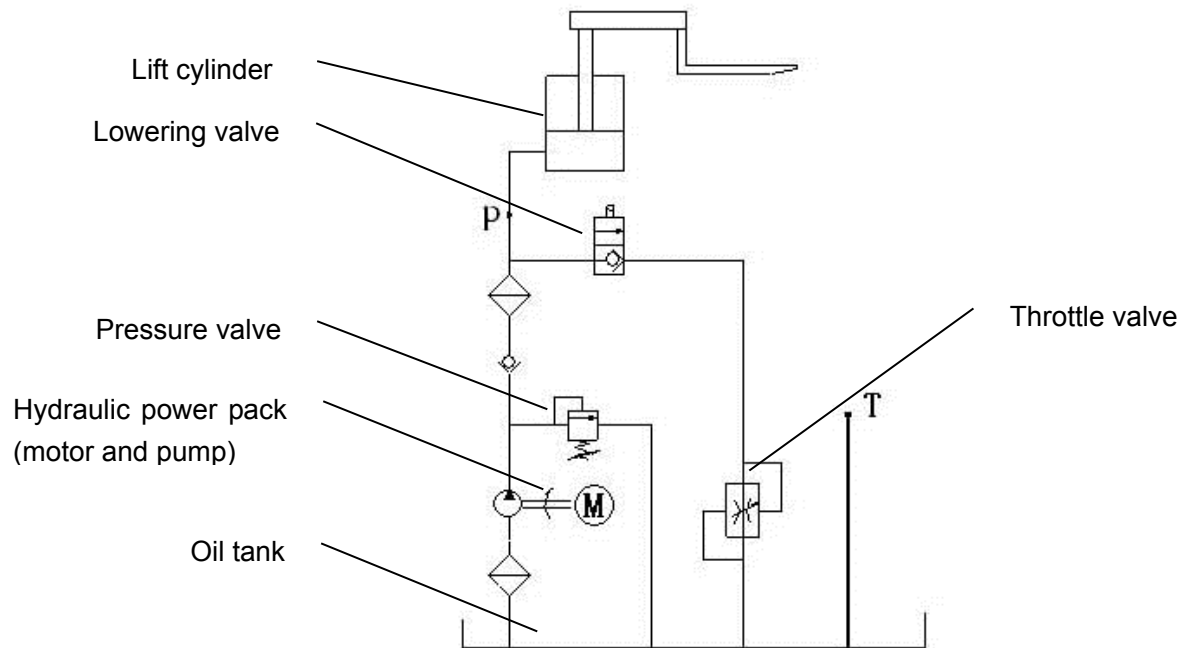


Fig. 19: Hydraulic circuit

## 12. DECLARATION OF CONFORMITY (valid, if sold within the EU)

### **[GB] CE Declaration of Conformity**

The signatory hereby declares that the specified machine conforms to the EU Directive 2006/42/EC (Machine Directive) and 2014/30/EEC (Electro-Magnetic Compatibility, EMC) including their amendments as translated into national legislation of the member countries. The signatory is individually authorized to compile the technical documents.

### **[D] EG-KONFORMITÄTSEKKLÄRUNG**

Der Unterzeichner bescheinigt hiermit, dass die im Einzelnen bezeichnete Maschine den Europäischen Richtlinien 2006/42/EG (Maschinenrichtlinie) und 2014/30/EG (Elektromagnetische Verträglichkeit - EMV) einschließlich deren Änderungen sowie dem entsprechenden Rechtserlaß zur Umsetzung der Richtlinien in nationales Recht entspricht. Der Unterzeichner ist bevollmächtigt, die technischen Unterlagen zusammenzustellen.

### **[E] DECLARACIÓN DE CONFORMIDAD CE**

El signatario certifica por medio de la presente que la máquina especificada cumple con las Normas Europeas 2006/42/CE (Normativa para maquinarias) y 2014/30/CE (Compatibilidad electromagnética), incluyendo sus respectivas modificaciones, así como con el decreto-ley para la adaptación de las normas al derecho nacional. El signatario dispone de una autorización individual que le permite compilar la documentación técnica.

### **[F] DECLARATION DE CONFORMITE CE**

Par la présente déclaration, les soussignés certifient que le machines spécifié ci-dessus est conforme à la loi et aux directives européennes 2006/42/CE (directive sur les machines) et 2014/30/CEE (compatibilité électromagnétique - CEM), y compris aux modifications qui y sont apportées et à l'arrêté autorisant sa transposition en droit national. Chaque signataire est habilité à établir individuellement la documentation technique.

### **[NL] EG-CONFORMITEITSVERKLARING**

Ondergetekenden verklaren hierbij dat - volgens de nationale wetgeving van de Lidstaten - de hierboven vermelde opgegeven machina beantwoordt aan de bepalingen qua veiligheid bij machines (EG richtlijn 2006/42/EC) en electro-magnetische compatibiliteit (EG richtlijn 2014/30/EEC). Ondergetekenden zijn ieder individueel gemachtigd het technisch dossier samen te stellen.

### **[P] DECLARAÇÃO DE CONFORMIDADE CE**

Pela presente, os signatários certificam que o máquina especificado está conforme às Directivas Europeias 2006/42/CE („Máquinas“) e 2014/30/CEE („Inocuidade Electromagnética - IEM“), incluindo as alterações das mesmas e o respectivo decreto-lei para a transposição em lei nacional. Cada um dos signatários está autorizado a proceder à elaboração da documentação técnica.

### **[I] DICHIARAZIONE DI CONFORMITÀ CE**

I sottoscritti dichiarano che il veicolo per trasporti interni a macchina specificato soddisfa le Direttive Europee 2006/42/EC (Direttiva Macchine) e 2014/30/EEC (Compatibilità elettromagnetica - EMV) comprese le relative modifiche, come pure il rispettivo decreto legislativo per la conversione delle direttive in diritto nazionale. I sottoscritti sono singolarmente autorizzati alla creazione della documentazione tecnica.

### **[BG] ЕВРОПЕЙСКА ОБЩНОСТ - ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ**

Подписаните удостоверяват с настоящето, че подробно описаното машина средство отговаря на европейския норматив 2006/42/EG (норматив за машини) и на 2014/30/EG (електро-магнетична съвместимост), включително с техните промени, както и на съответния указ за прилагане на нормативите в националното право. Подписаните при това са упълномощени поотделно да съставят техническата документация.

### **[CZ] EG - PROHLÁŠENÍ O SHODĚ**

Níže podepsaný tímto potvrzuje, že podrobný popis uvedeně stroje odpovídá Evropským směrnici 2006/42/EC (směrnice pro stroje) a 2014/30/EEC (elektromagnetická interference - EMV) včetně jejich pozdějších úprav, jakož i příslušným právním výnosům pro uplatnění příslušné směrnice v rámci národního práva. Každý z podepsaných jsou jednotlivě způsobilí k vytvoření technických podkladů.

### **[DK] EF-OVERENSSTEMMELSESEKKLÆRING**

Undertegnede attesterer hermed, at det specificerede maskine stemmer overens med de Europæiske Direktiver 2006/42/EU (maskindirektiv) og 2014/30/EØF (elektromagnetisk kompatibilitet - EMC) samt med den modsvarende lovvedtagelse til implementering af direktiver i den nationale lovgivning. De undertegnede er hver for sig beføjede til at sammenstille de tekniske dokumenter.

### **[EST] EL vastavusavaldus**

Allakirjutatud tõendavad käesolevaga, et üksikasjaliselt kirjeldatud täpsustatud masin vastab Euroopa direktiividele 2006/42/EÜ (Direktiiv masinate kohta) ja 2014/30/EMÜ (Elektromagnetilise sobivus - EMS) kaasa arvatud nende muudatused ja nende vastavatele õigusmäärustele direktiivide muutmiseks siseriiklikuks õiguseks. Iga allakirjutatu üksikult on volitatud koostama tehnilist dokumentatsiooni.

### **[FIN] EU-YHDENMUKAISUUSSELOSTUS**

Allekirjoittaneet todistavat täten, että kukin erikseen mainittu omalla voimanolähteellä varustettu tehdaskone vastaa EU-direktiivien 2006/42/EC (koneenrakennusdirektiivi) ja 2014/30/EEC (sähkömagneettinen yhteensopivuus – EMC) määräyksiä sekä niiden muutoksia ja niiden kansalliseen lainsäädäntöön soveltamista koskevaa oikeussäätöä. Jokaisella allekirjoittaneista on oikeus itsenäisesti laatia asiaankuuluvia teknisiä asiakirjoja.

### **[GR] ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΕΟΚ**

Οι υπογράφοντες βεβαιώνουν διά της παρούσης ότι το συγκεκριμένο μηχάνημα συμμορφώνεται προς την Κοινοτική Οδηγία 2006/42/ΕΚ («Μηχανήματα») και 2014/30/ΕΟΚ (Ηλεκτρομαγνητικής Συμβατότητας, ΗΜΣ), καθώς και οι τροποποιήσεις τους, όπως μεταφράστηκε στην εθνική νομοθεσία των χωρών μελών. Οι υπογράφοντες είναι σε κάθε περίπτωση εξουσιοδοτημένοι ατομικά να καταρτίσουν τα τεχνικά έγγραφα.

### **[H] EU KONFORMITÄSI NYILATKOZAT**

Alulírottak ezennel igazolják, hogy a részletesen leírt a megadott gép megfelel a 2006/42/EC (Gép-Írányelv) és a 2014/30/EEC (Elektromágneses összeférhetőség - EMV) Európai Irányelveknek, beleértve azok módosításait, valamint az irányelvek nemzeti jogba történt átültetésére irányuló megfelelő jogi rendelkezést. Továbbá az alulírottak mindegyike rendelkezik meghatalmazással arra nézve, hogy összeállíthatja a műszaki dokumentációt.

### **[LT] ES atitikimø deklaracija**

Žemiau pasirašę asmenys patvirtina, kad atskirai aprašytas nurodyta mašina atitinka Europos Sąjungos direktyvas 2006/42/EB (Mašinų direktyva) ir 2014/30/EEB (Elektromagnetinis suderinamumas – EMS) įskaitant jų pakeitimus, o taip pat ir atitinkamą teisės aktą dėl direktyvų įgyvendinimo nacionalinėje teisėje. Kiekvienas iš pasirašiusių asmenų turi teisę ruošti techninę dokumentaciją.

### **[LV] ES atbilstības deklarācija**

Ar zemāk redzamajiem parakstiem tiek apliecināts, ka norādīts mašina atbilst Eiropas Savienības normatīvām 2006/42/EG (Mašīnu normatīvas) un 2014/30/EEG (Elektromagnētiskā atbilstība – EMV), ieskaitot to izmaiņas, kā arī atbilstošos tiesiskos riskojumus normatīvu pielāgošanai nacionālajai likumdošanai. Parakstu īpašnieki ir atsevišķi pilnvaroti sastādīt tehniskās dokumentācijas.

### **[N] EU-KONFORMITETSEKKLÆRING**

Undertegnede bekræfter hermed at de enkelte betegnede maskin med kraftdrift tilsvarende de europeiske retningslinjerne 2006/42/EC (maskinretningslinje)

og 2014/30/EEC (elektromagnetisk fordraglighet - EMV) inklusiv disses endringer og den tilsvarende rettsforordning til omsetning av nasjonal rett. Hver undertegnede er fullmektig til å sette sammen de tekniske dokumentene.

#### **[PL] DEKLARACJA ZGODNOŚCI Z NORMAMI UE**

Niżej podpisani potwierdzają niniejszym, że opisany tutaj, napędzany określona maszyna spełnia wymagania określone w dyrektywach Europejskich 2006/42/EC (Maszyny) i 2014/30/EEC (Nieszkodliwość elektromagnetyczna - EMC) wraz z ich późniejszymi zmianami oraz odpowiednimi rozporządzeniami mającymi na celu przekształcenie tych dyrektyw w prawo krajów członkowskich. Niżej podpisani są pojedynczo upoważnieni do zestawiania dokumentacji technicznej.

#### **[RO] DECLARAȚIE DE CONFORMITATE CE**

Subsemnatii adevăresc prin prezenta că vehiculul de specificat mașină descris individual corespunde directivelor europene 2006/42/CE (Directiva privind mașinile) și 2014/30/CEE (Compatibilitatea electromagnetică - CEM) inclusiv modificărilor lor precum și actului legislativ corespunzător pentru transpunerea directivelor în drept național. Subsemnatii sunt fiecare în parte împuterniciți să întocmească documentația tehnică.

#### **[RU] Декларация соответствия стандартам ЕС**

Настоящим лица, подписавшие документ, удостоверяют, что машина с указанной спецификацией соответствует европейским стандартам 2006/42/EG (Транспортная директива) и 2014/30/ЕWG (Электромагнитная совместимость - EMC), включая изменения в них, а также соответствующим национальным стандартам и нормам. Каждое по отдельности лицо, подписавшее документ, имеет полномочия для составления технической документации.

#### **[SI] EG-KONFORMITETSFÖRKLARING**

Underteckarna intygar härmed att det i detalj betecknade maskin uppfyller de Europeiska direktiven 2006/42/EG (Maskindirektiv) och 2014/30/EEG (Elektromagnetisk tålighet - EMV), inklusive ändringarna i detta och den motsvarande rättsförordningen för att omsätta direktiven i nationell rätt. Underteckarna har var för sig fullmakt att sammanställa den tekniska dokumentationen.

#### **[SK] vyhlásenie o zhode**

Dolu podpísaní týmto potvrdzujeme, že podrobný popis uvedeného stroje zodpovedá Európskym smerniciam 2006/42/EC (ernica pre stroje) a 2014/30/EWG (elektromagnetická tolerancia – EMV) vrátane jeho neskorších úprav, rovnako zodpovedá aj príslušným právnym nariadeniam na uplatnenie smerníc v rámci národného práva. Každý z podpísaných je jednotlivo splnomocnený na vytvorenie technických podkladov.

#### **[SLO] EU IZJAVA O SKLADNOSTI**

Podpisani s tem potrjujemo, da posamično označeno določeno stroj vozilo odgovarja Evropski direktivi 2006/42/EC (Direktiva o strojih) in 2014/30/EEC (Elektromagnetna skladnost - EMV) vključno z njihovimi spremembami ter ustrezno pravno uredbo o prevzemu smernic v nacionalno pravo. Podpisniki so vsakokrat posamezno pooblašeni za izdajanje tehnične dokumentacije.

#### **[TR] AB Uygunluk Açıklaması**

İmza sahibi şahıslar, ayrıntıları belirtilen makine aracının, 2006/42/EC (Makine Yönergesi) ve 2014/30/EEC (Elektromanyetik Uyumluluk – EMC) no'lu Avrupa Yönergelerine ve bunların değişiklik sonucu oluşan metinlerine ve yönergelerin milli hukuk hükümlerine dönüştürülmesine dair ilgili hukuk karamamesine uygun olduğunu tasdik ederler. İmza sahibi şahıslar teknik dosyaları bir araya getirmek için münferiden vekil tayin edildi.

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