FORKLIFT

SERVICE MANUAL

25EO-X

HYUNDAI

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Type sheet for industrial order picker according to VDI 2198				
Identification	1.2	Model		25EO-X
	1.3	Drive		Electric
	1.4	Manual,pedestrian,stand-on,seated,order picker operation		Order pickers
	1.5	Load capacity/rated load	Q(kg)	2500
	1.6	Load center distance	C(mm)	1200
	1.8	Load distance	X(mm)	1535[1]
	1.9	Wheelbase	Y(mm)	2723[1]
Weight	2.1	Net weight without battery	kg	968
	2.2	Axle loading, laden front/rear	kg	1290/2530
	2.3	Axle loading, unladen front/rear	kg	980/340
Wheels/ frame	3.1	Tires		PU
	3.2	Tire size, front	∅ x w (mm)	∅250×80
	3.3	Tire size, rear	∅ x w (mm)	∅82×82
	3.4	Additional wheels(dimensions)	∅ x w (mm)	∅180×80
	3.5	Wheels, number front/rear(x=driven wheels)		1+1x/4
	3.6	Tread width, front	b_{10} (mm)	480
	3.7	Tread, width, rear	b_{11} (mm)	360
Basic dimensions	4.4	Lift	h_3 (mm)	115
	4.9	Height of tiller	h_{14} (mm)	1280
	4.15	Height, lowered	h_{13} (mm)	85
	4.19	Overall length	l_1 (mm)	3770[2]
	4.20	Length to face of forks	l_2 (mm)	1370[2]
	4.21	Overall width	b_1 (mm)	810
	4.22	Fork dimensions	s/e/l	60/180/2400
	4.25	Width across forks	b_5 (mm)	540
	4.32	Ground clearance(center of wheelbase)	m_2 (mm)	25
	4.34	Aisle width for pallets 800×1200 lengthways	Ast(mm)	3970[3][4]
	4.35	Turning radius	Wa (mm)	2965[3]
Performance data	5.1	Travel speed laden/unladen	km/h	9/12
	5.2	Lift speed, laden/unladen	mm/s	40/64
	5.3	Lowering speed, laden/unladen	mm/s	60/40
	5.8	Max. gradeability, laden/unladen	%	6/12
	5.10	Service brake		regenerative
Electrics	6.1	Drive motor, output at S2 60min	kW	2.6
	6.2	Lift motor, output at S3 10%	kW	2.2
	6.3	Battery as per DIN 43531/35/36 A、B、C、no		no
	6.4	Battery voltage/nominal capacity K5	V/Ah	24/465
	6.5	Battery weight	kg	352
	6.6	Energy consumption as per EN 16796	kWh/h	0.7
Misc.	8.1	Type of drive control		AC-speed control
	8.4	Sound pressure level at operator's ear as per EN12053	dB(A)	<70

1) Forks lowered X=1600mm，Y=2788mm；

2) With bumper l1=3810mm，l2=1409；

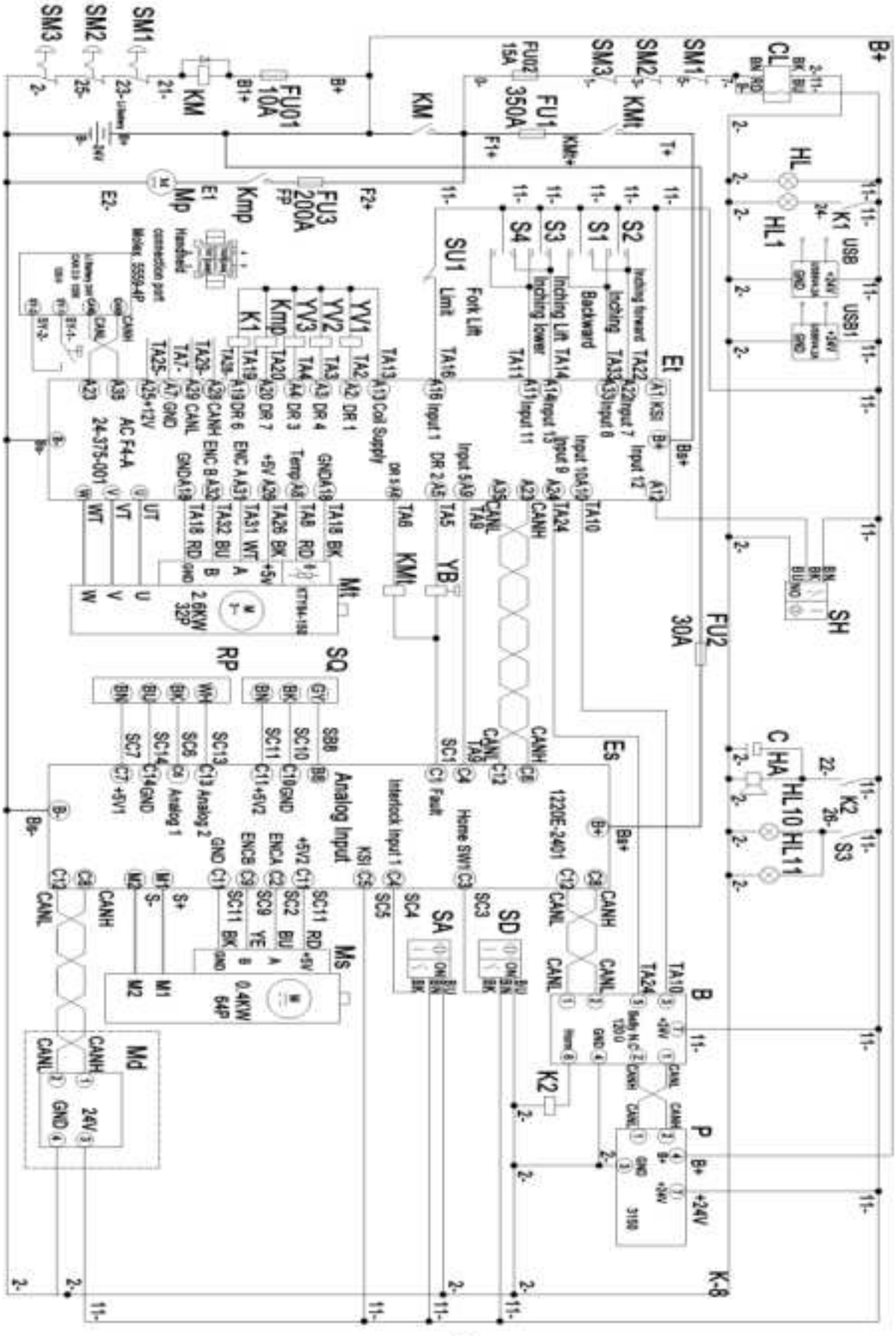
2) With bumper Wa=3005mm，Ast=4010mm

4) Diagonal calculation acc. to VDI2198: Ast=initial value+94mm

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b. Wiring/circuit diagram

b-1 Standard 20 CE(Lithium battery)circuit diagram



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12. TROUBLE SHOOTING

Fault	Possible cause	Solution
The truck cannot move	Battery connector is not connected well	Check and well-connected the connector
	The emergency switch is pressed	Release emergency switch
	The pin-code lock is not activated	Activate the pin-code lock
	Low battery	Check SOC and must charge the battery
	Protection device is damaged	Check the protection device
Low driving speed	SOC is under 10%	Charge the battery
	Turtle speed button is pressed	Release turtle speed button
	Man-up platform is lifted over 300mm	Lower Man-up platform until it is within 300mm
Loads cannot be lifted	Overload	Load the truck within rated capacity
	SOC is below 10%	Charge the battery
	Lifting fuse fault	Check and replace the lifting fuse
	Hydraulic oil level too low	Check and eventually refill hydraulic oil
	Oil leakage	Repair the hoses and/or sealing of the cylinder
	Proximity switch under the platform is damaged or not activated	Adjust or replace the proximity switch
Drive wheel slippage	Floor is not clean	Clean the floor
	Pits on the floor	Remove the trailer and drive out of the pit

If you are unable to troubleshoot the order picker after trying all the solutions listed above, contact your local dealer or our after-sales department, who will be responsible for further troubleshooting.

In order to find out the cause of the fault more accurately and quickly, please provide the following important information when you are to contact the local dealer or the after-sales department::

- Serial number of the truck (on the ID plate);
- Fault code on the indicator display;
- Description of the fault;
- The specific part of the order picker with fault;
- Contact details

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c. Replacement

Take out the battery and place it on the equipment for battery replacement safely, and ensures that the battery replacement device does not move during the battery replacement.
Incorrect use of the device may cause the battery being tipped over!
To remove the battery, press lock catch (34) and lift the tiller (7) to open the console. Flip the pad (35), loosen the battery lock lever (36) and turn it over, then remove battery from the side of the order picker.
Battery assembling is in the opposite order.





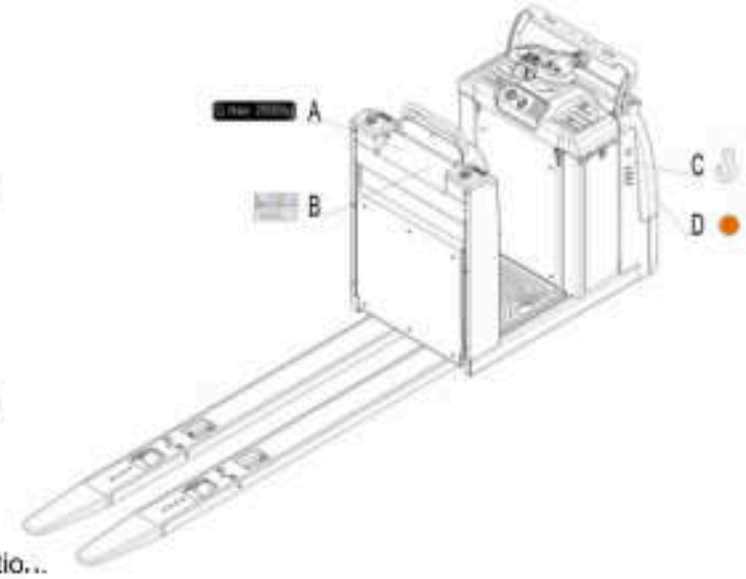
Replace the lithium battery in the same way as the preceding method. Lift the cover, power off, remove the battery discharge port connector, loosen the battery fixing block, and move the battery in the direction of the arrow to remove the battery.
Installation is the reverse process of removal.

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d. Description of the safety devices and warning stickers

For the USA market, the description of the safety and warning labels is mentioned in chapter 11.

A Capacity sticker
B Identification plate (ID plate)
C Crane hook sticker
D Hydraulic oil adding sticker

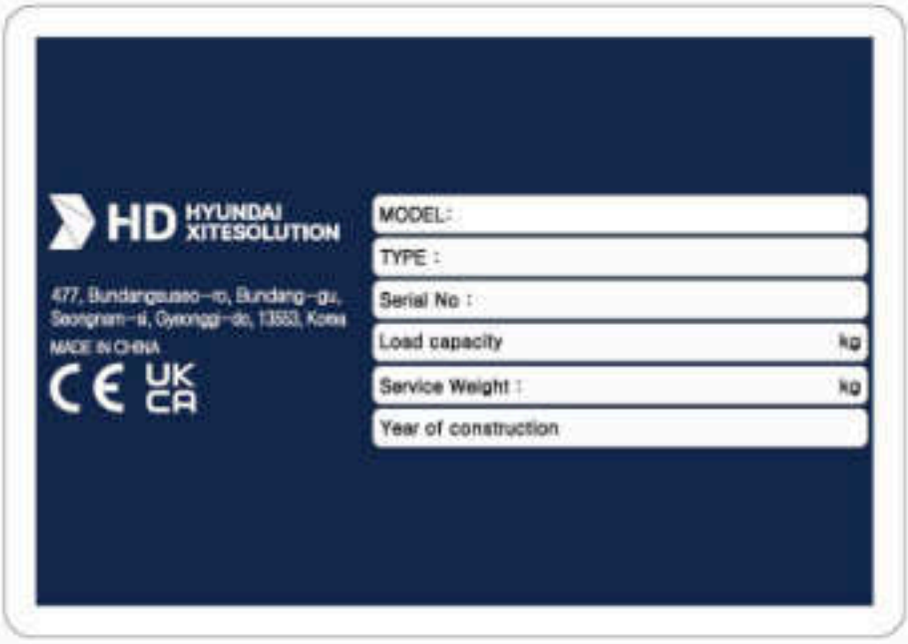


The order picker is equipped with 3 emergency buttons (23), pressing any one of the three buttons can turn off all the functions of the order picker .

The tiller of this order picker is equipped with a safety (belly) button (27), which switches the driving function away from the operator, if the order picker travels towards the operator and the tiller is activated in the tiller's operating positio...

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

e. Identification plate (ID plate)



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