FORKLIFT

SERVICE MANUAL

22, 25, 30, 32B-7

HYUNDAI

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(5) GEAR PUMP

Item	Unit	Specification
Type	-	Fixed displacement gear pump
Capacity	cc/rev	30.8
Maximum operating pressure	bar	210
Rated speed(max/min)	rpm	3000/500

(6) MAIN CONTROL VALVE

Item	Unit	Specification
Type	-	3 spool, 4 spool
Operating method	-	Mechanical
Main relief valve pressure	bar	190

(7) DRIVE AXLE UNIT

Item	Unit	Specification
Max axle load	kg/lb	4500/9920.8
Max input rpm	rpm	5500
Gear ratio	-	26.2
Weight without fluid	kg/lb	50.5kg(111.3lb)/EA
Oil quantity	ℓ /U.S - qt	2.4(2.54)

(8) WHEELS

Item	Specification
Type(front/rear)	SOLID(OPT : NON-MARKING, PNEUMATIC)
Quantity(front/rear)	2/2
Front-drive	23 × 9-10(18PR)
Rear-steering	18 × 7-8(16PR)

(9) BRAKES & STEERING

Item		Specification
Brakes	Travel	Front wheel, Hydraulic, wet disc brake
	Parking	Mechanical
Steering	Type	Full hydraulic, power steering

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GROUP 2 OPERATIONAL CHECKS AND TROUBLESHOOTING

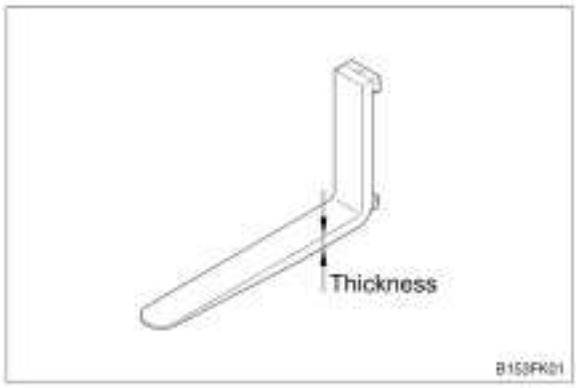
1. OPERATIONAL CHECKS

1) FORKS

(1) Measure thickness of root of forks and check that it is more than specified value.
EX : ℓ =1050mm(41.3in)

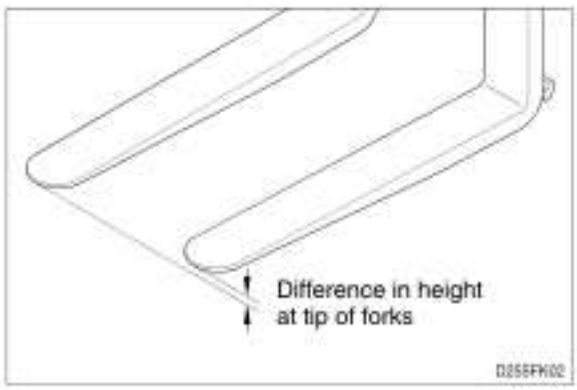
mm(in)

STD Fork assy	Applicable model	Standard	Limit
F173796-02	22/25B-7	45(1.8)	40(1.6)
64FG-31020	30/32B-7	45(1.8)	40(1.6)



(2) Set forks in middle and measure difference in height at tip of forks.

Model	Fork length (mm)	Height difference(mm)
22/25/30/32B-7	below 1200	3
	above 1200	6



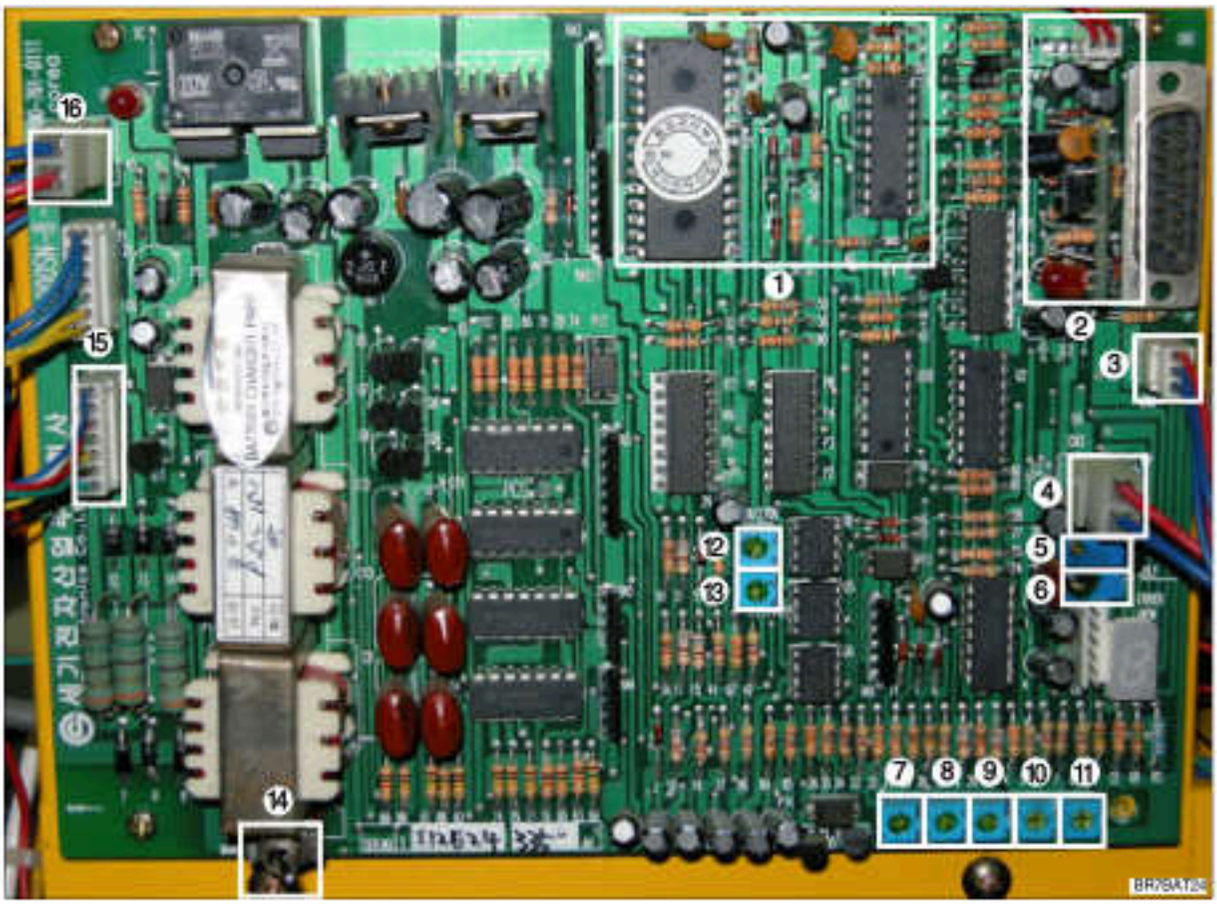
(3) Most force is concentrated at root of fork and at hook, so use crack detection method to check cracks.

2. MAST

1) Check for cracks at mast stay, tilt cylinder bracket, guide bar, fork carriage and roller shaft weld. Check visually or use crack detection method. Repair any abnormality.
2) Set mast vertical, raise forks about 10cm from ground and check front-to-rear clearance and left-to-right clearance between inner mast and fork carriage, and between outer mast and inner mast. Use these figures to judge if there is any play at roller or rail.
   · Front-to-rear clearance : Within 2.0mm(0.08in)
   · Left-to-right clearance : Within 2.5mm (0.10in)
3) Check that there is an oil groove in bushing at mast support.
4) Set mast vertical, raise forks about 10cm from ground, and push center of lift chain with finger to check for difference in tension.
   If there is any difference in tension, adjust chain stopper bolt.
5) Check visually for abnormalities at thread of chain anchor bolt, and at contact surface between chain wheel and chain.
   Rotate chain wheel by hand and check for any play of bearing.

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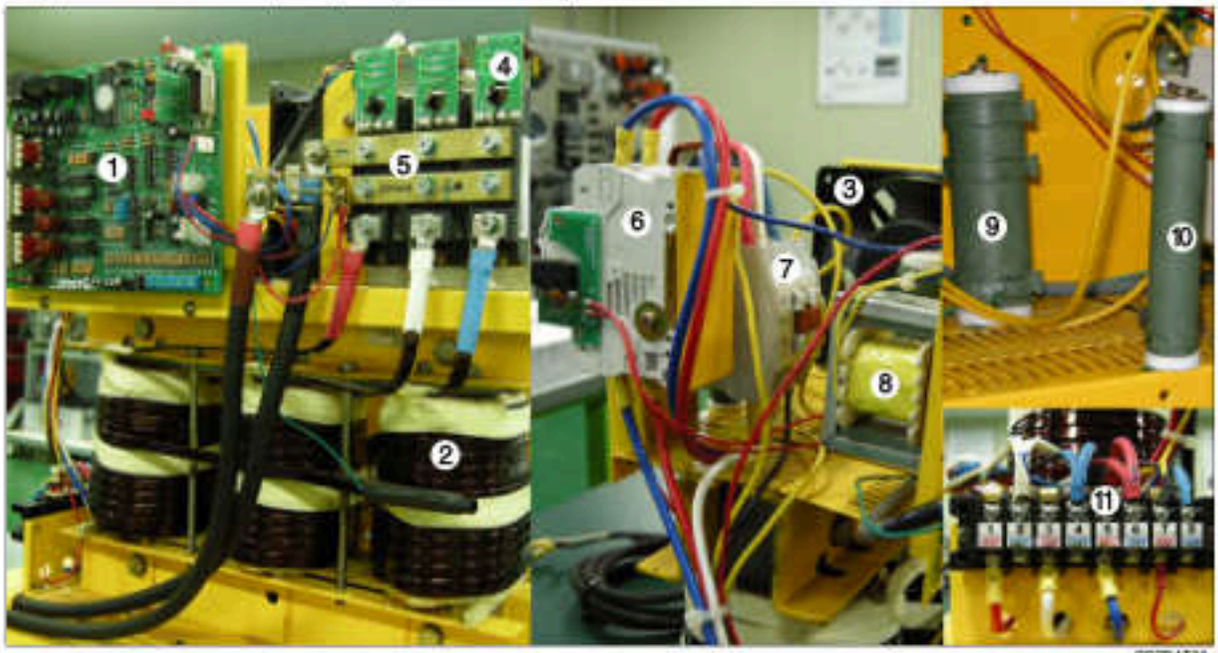
8) PCB MAJOR PARTS NAME AND LOCATION



1	Micro control unit #1	7	Over voltage	13	Set input over current
2	Micro control unit #2	8	Monitor level yellow	14	Auto/manual switch
3	CN6 voltage detect	9	Monitor level green	15	SCR control connector
4	SH current detect	10	Under current	16	CN4 RY contact point
5	Adjust charging current	11	Over current		
6	Adjust charging voltage	12	Set input over voltage		

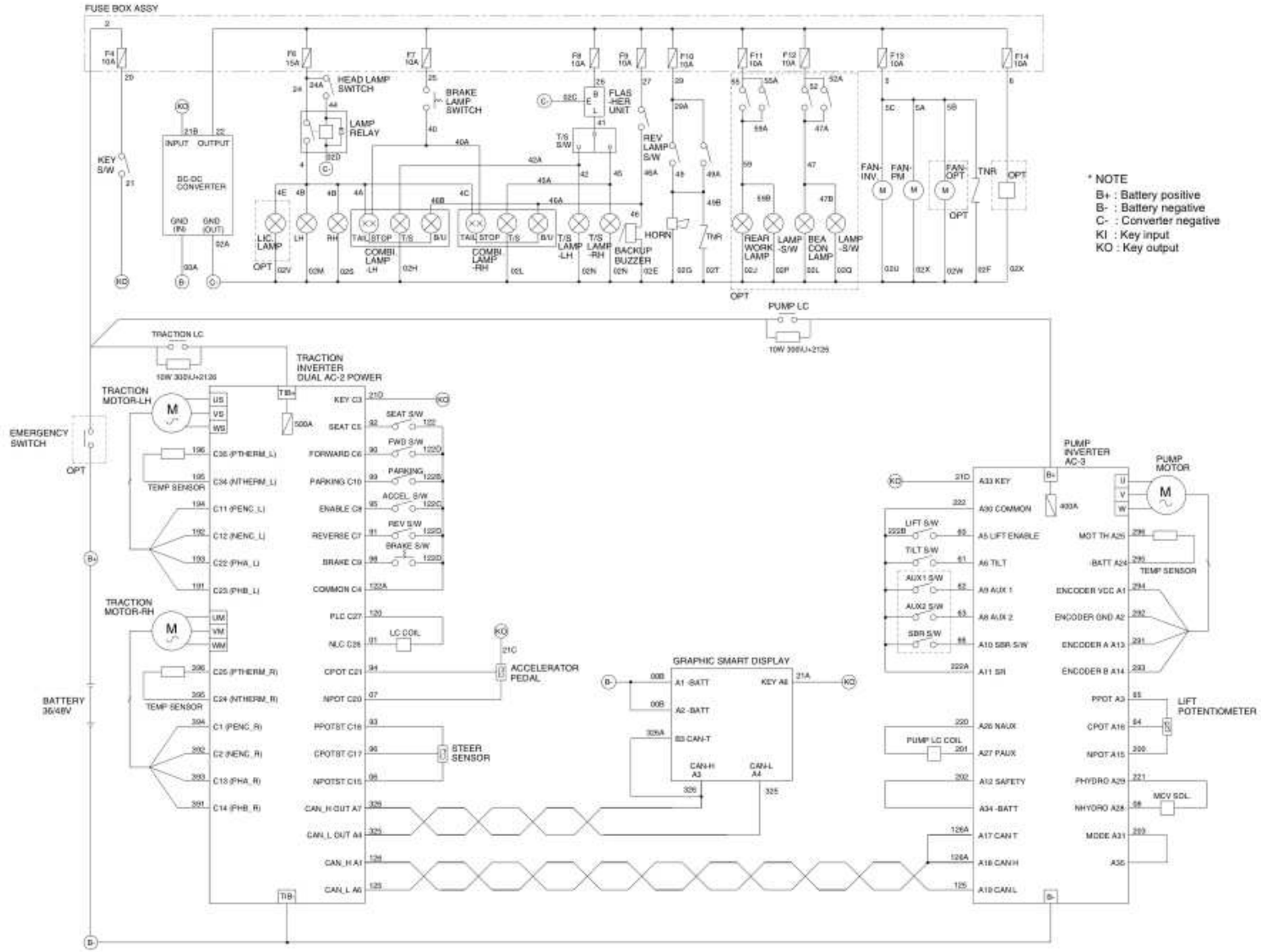
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(3) Names of each part (independent items)



1	Main PCB board	5	Shunt	9	Resistance (RD)
2	Main trans (Class H)	6	NFB	10	Resistance (DR)
3	Cooling fan	7	MG S/W	11	TAP changer
4	SCR module	8	Assistant trans		

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