FORKLIFT

SERVICE MANUAL

HBF20C-7

HYUNDAI

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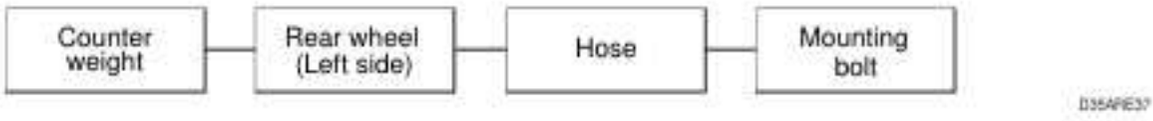
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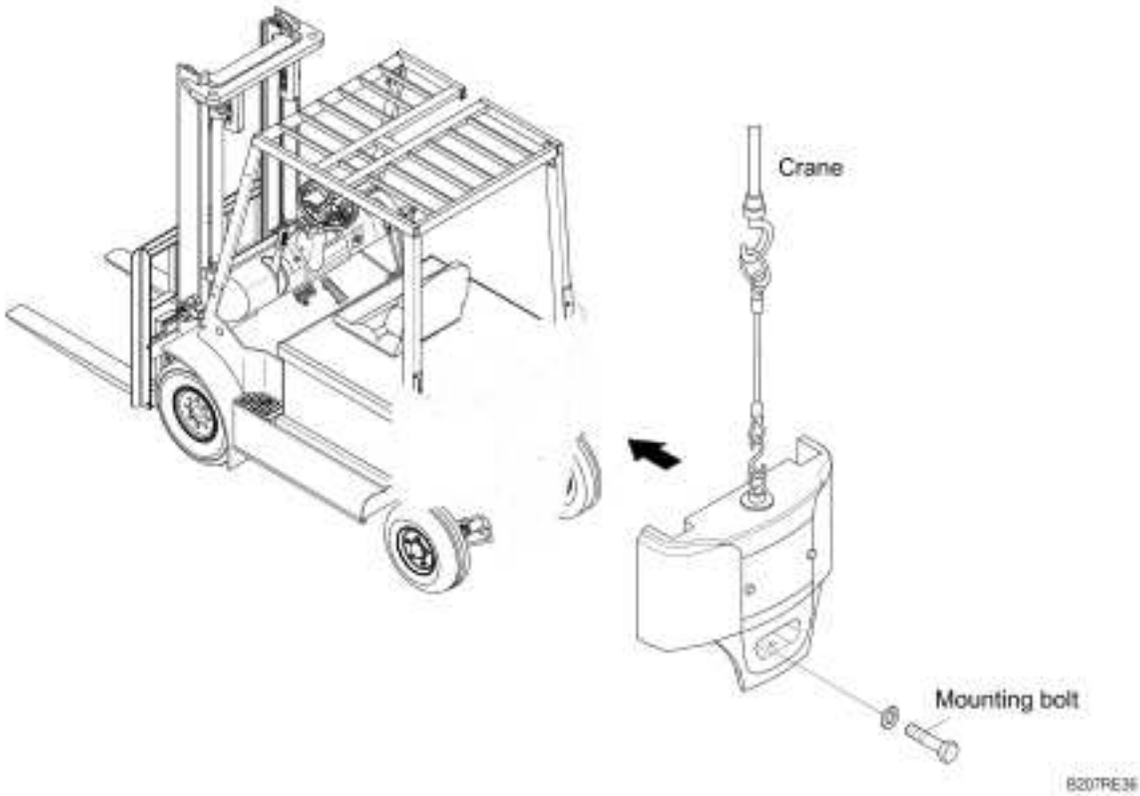
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6. REAR AXLE

1) REMOVAL



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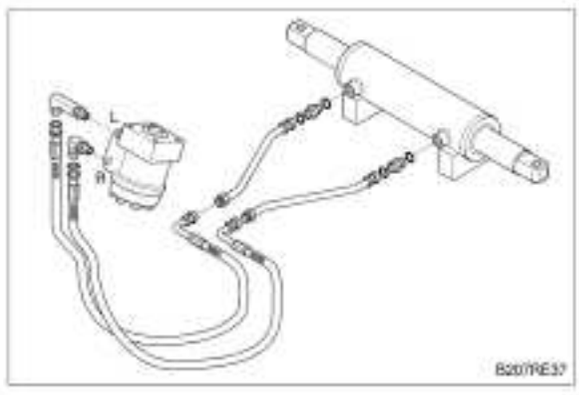
(1) Counterweight

Install a lifting tool in the counterweight, and raise with a crane.
Remove the mounting bolts, raise slightly and move to the rear.

- Weight of counterweight(standard)

HBF20-7 : 650kg(1433lb)	HBF20C-7 : 600kg(1323lb)
HBF25-7 : 920kg(2028lb)	HBF25C-7 : 920kg(2028lb)
HBF30-7 : 1015kg(2238lb)	HBF30C-7 : 1060kg(2337lb)
HBF32-7 : 1140kg(2513lb)	

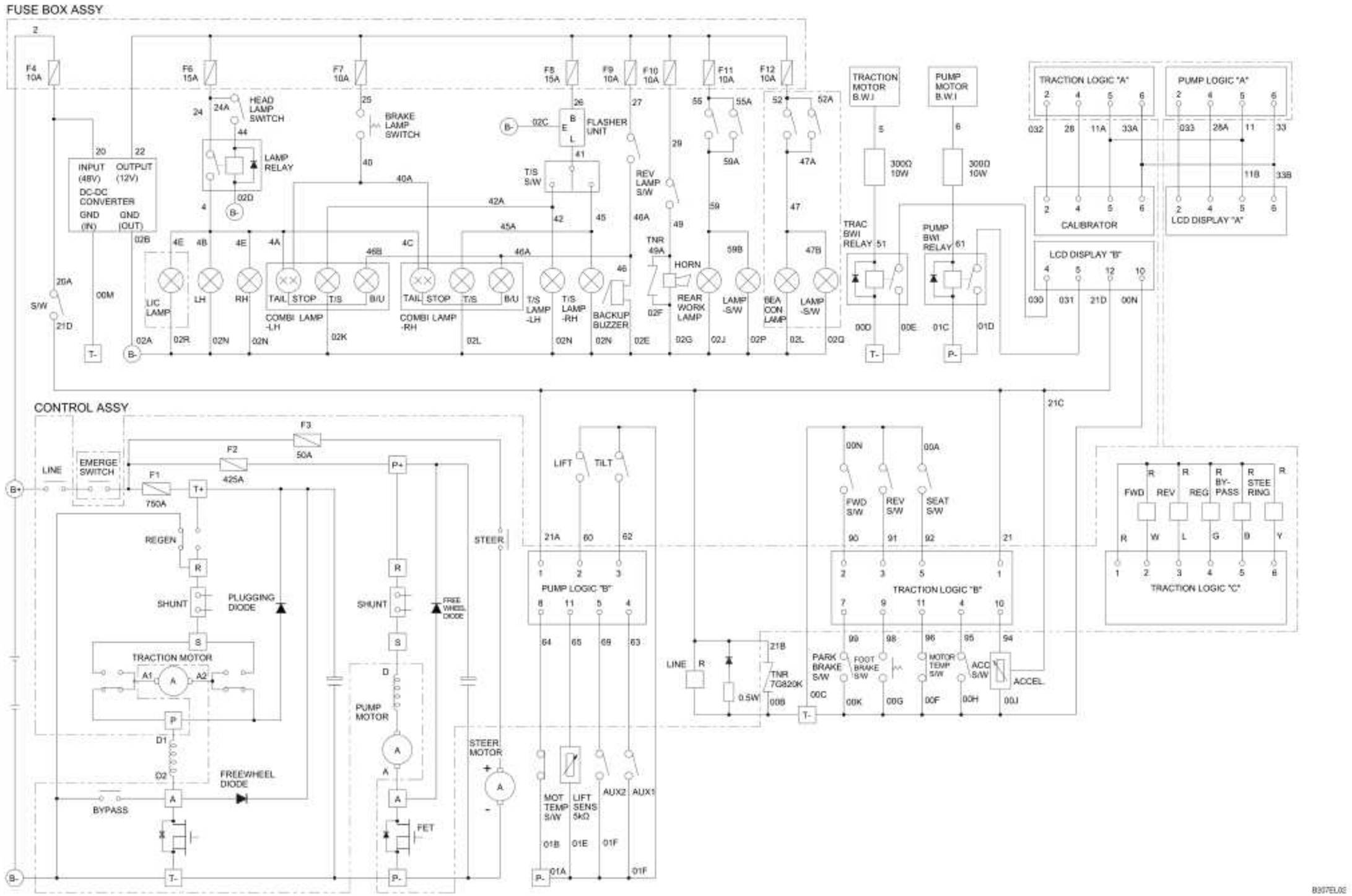
(2) Hose



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GROUP 2 ELECTRICAL CIRCUIT



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2. TROUBLESHOOTING

1) MAST

Problem	Cause	Remedy
Forks fail to lower.	· Deformed mast or carriage.	- Disassemble, repair or replace.
Fork fails to elevate	· Faulty hydraulic equipment.	- See troubleshooting hydraulic pump and cylinders in section 6, hydraulic system.
	· Deformed mast assembly.	- Disassemble mast and replace damag-ed parts or replace complete mast assembly.
Slow lifting speed and insufficient handling capacity.	· Faulty hydraulic equipment.	- See troubleshooting hydraulic pump and cylinders in section 6, hydraulic system.
	· Deformed mast assembly.	- Disassemble mast and replace damag-ed parts or replace complete mast assembly.
Mast fails to lift smoothly.	· Deformed masts or carriage.	- Disassembly, repair or replace.
	· Faulty hydraulic equipment.	- See Troubleshooting Hydraulic cylinders pump and control valve in section 6, hydraulic system.
	· Damaged load and side rollers.	- Replace.
	· Unequal chain tension between LH & RH sides.	- Adjust chains.
	· LH & RH mast inclination angles are unequal. (Mast assembly is twisted when tilted)	- Adjust tilt cylinder rods.
Abnormal noise is produced when mast is lifted and lower-ed.	· Broken load roller bearings.	- Replace.
	· Broken side roller bearings.	- Replace.
	· Deformed masts.	- Disassemble, repair or replace.
	· Bent lift cylinder rod.	- Replace.
	· Deformed carriage.	- Replace.
	· Broken sheave bearing.	- Replace.
Abnormal noise is produced during tilting operation.	· Insufficient lubrication of anchor pin, or worn bushing and pin.	- Lubricate or replace.
	· Bent tilt cylinder rod.	- Replace.

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(6) Remove 4 bolts on the drive side endbell, using L wrench.



(7) Remove armature and drive-side endbell by lifting up straightly.



Armature assembly, drive side endbell and field & frame assembly after disassembling from motor.



(8) Remove 4 bolts on the commutator side endbell.



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2. MAIN CONTROL VALVE

1) DISASSEMBLY

(1) Remove spool cap.

※ **Put disassembled parts orderly on the clean work bench.**



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(2) Remove socket bolts from the opposite side.



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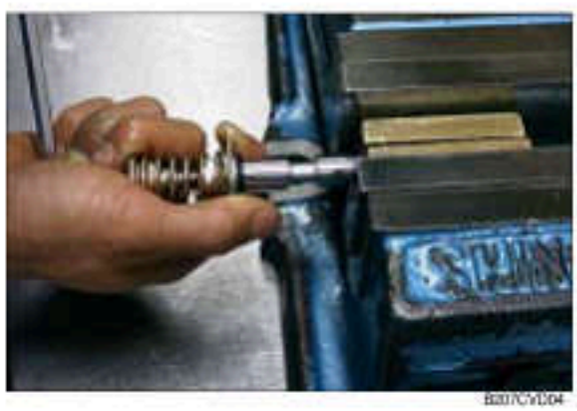
(3) Disassemble spool assembly carefully from the section body.
In case of not being pulled out easily, push it into body again and then pull out smoothly by rotating the assembly.



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(4) Vise a spool assembly, using a jig.
Untighten special bolts and then remove spring seat, spring, seal plate, O-ring and dust wiper.

※ **Put disassembled parts orderly on the clean work bench.**



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