FORKLIFT

SERVICE MANUAL

20D-7E

HYUNDAI

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<OLD Transmission and drive axle>

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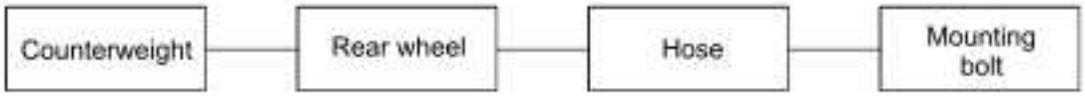
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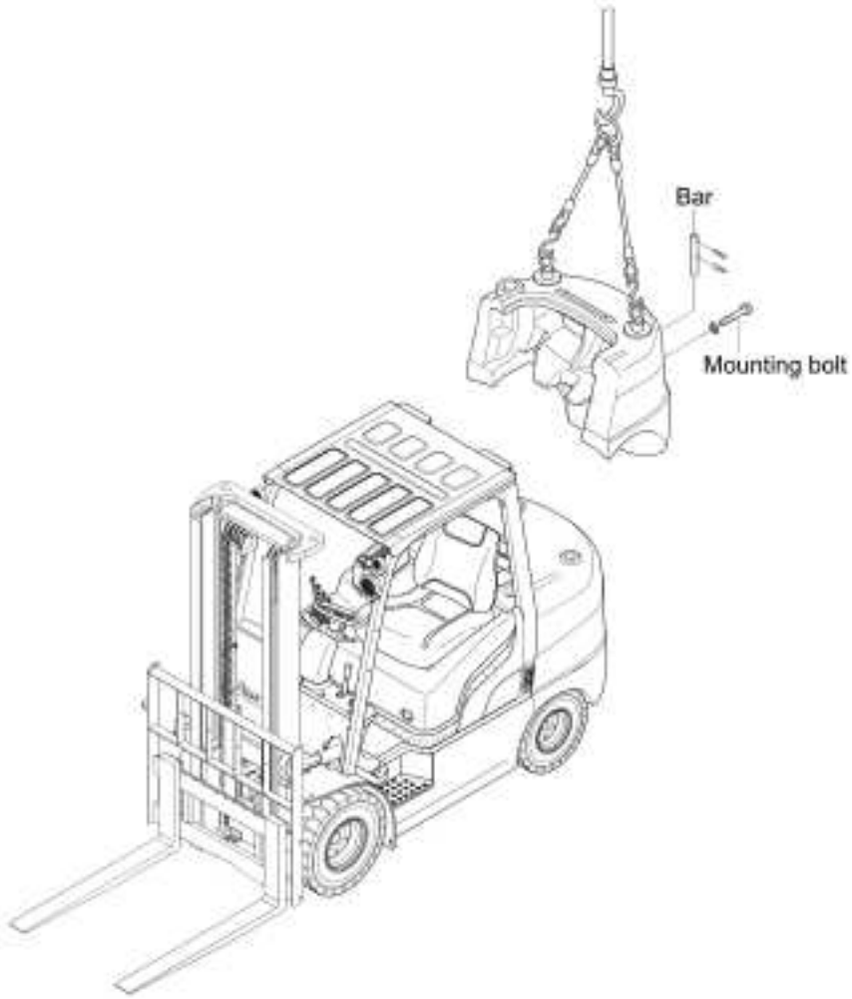
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4. STEERING AXLE

1) REMOVAL





20D7RE27

(1) Counterweight

Hold the counterweight with hoist bars, and raise it with a crane.

Remove the mounting bolts, raise slightly and move it slowly to rear side.

- Weight of counterweight(standard)

  20D-7E : 1,100kg(2,430lb)

  25D-7E : 1,390kg(3,060lb)

  30D-7E : 1,740kg(3,840lb)

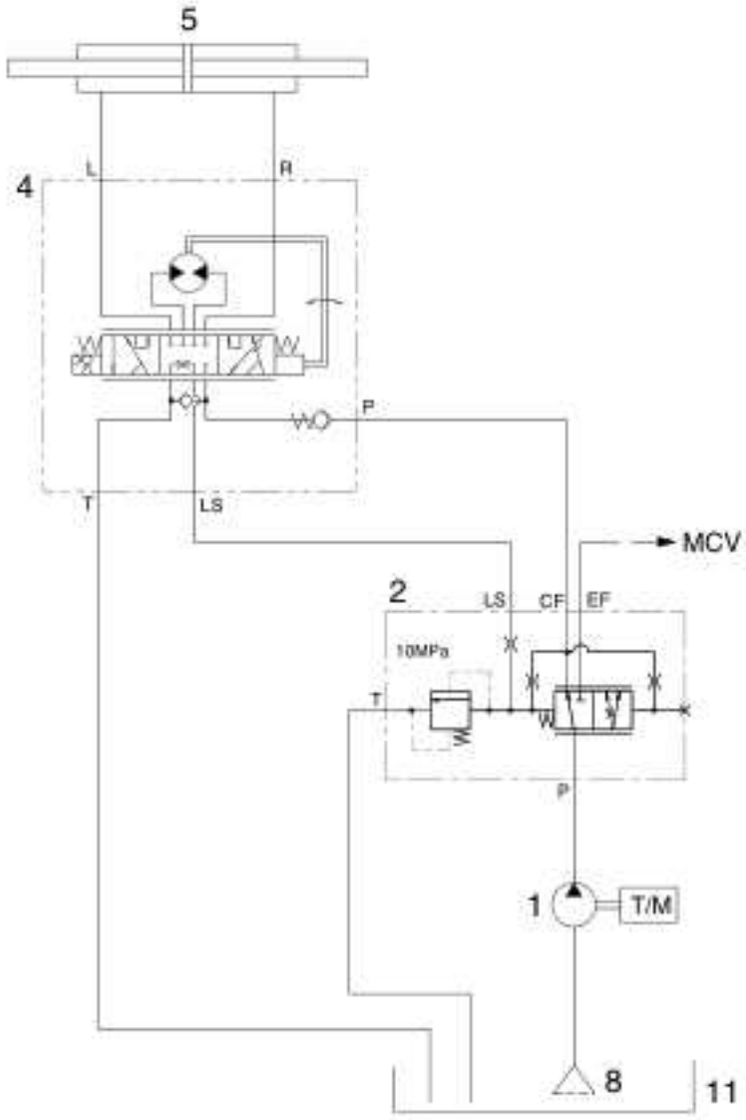
  33D-7E : 2,100kg(4,630lb)

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Trouble symptom	Probable cause	Remedy
2. Oil leakage		
1) External leakage	· Excess of oil.	· Check oil level. Set of oil amount.
	· Using different oil.	· Change oil.
	· Blocking air breather.	· Washing or change air breather.
	· Damaged of hub oil seal.	· Disassemble, check and change.
	· Leakage at pinion shaft.	
	- Excess of oil.	- Check oil level. Set of oil amount.
	- Using different oil.	- Change oil.
	- Blocking air breather.	- Washing or change air breather.
	- Worn or maladjustment pinion shaft oil seal.	- Change oil seal.
	· Loosened bleeder screw.	· Tighten bleeder screw to 150–200 kgf · m.
	· Loosened inlet fitting or plugs.	· Tighten inlet fitting to 380–420 kgf · m.
	· Damaged inlet fitting or plugs or damaged seats.	· Replace inlet fitting or plug and O-ring if used. Repair or resurface area; or replace as necessary.
2) Internal brake		
- Fluid bypasses seals into and fills axle with fluid and blows out breather or emptied brake fluid reservoir.	· Worn or damaged piston seal.	· Replace piston seals.
	· Melted or extruded piston seals.	· Correct cause of overheating and replace seals.
	· Corrosion, pitting wear or other damage, marks, scratches to piston and/or brake housing bore in area seal/sealing lips.	· Clean, smooth, rework or replace affected parts.
3. Axle does not revolution		
1) Axle shaft	· Injured axle shaft.	
	- Loosened and injured wheel bearing.	· Disassemble and change wheel bearing.
	- A short shaft.	· Change axle shaft
	- Injured disc spline.	· Change axle shaft
2) Hub	· Injured axle shaft.	
	- Injured lock nut.	- Change lock nut.
	- Loosened and injured wheel bearing.	- Reassemble or change wheel bearing.
	- Loosened and damaged bolt between wheel shaft and hub flange.	- Reassemble or change bolt.
	· Loosened or injured hub bolt and hub nut.	· Reassemble or change hub bolt.
3) Differential	· Damaged diff pinion and side gear.	· Change the damaged part.
	· Damaged diff spider.	· Change the damaged part.
	· Damaged differential case.	· Change the damaged part.
	· Damaged ring gear and pinion gear.	· Change the damaged part.

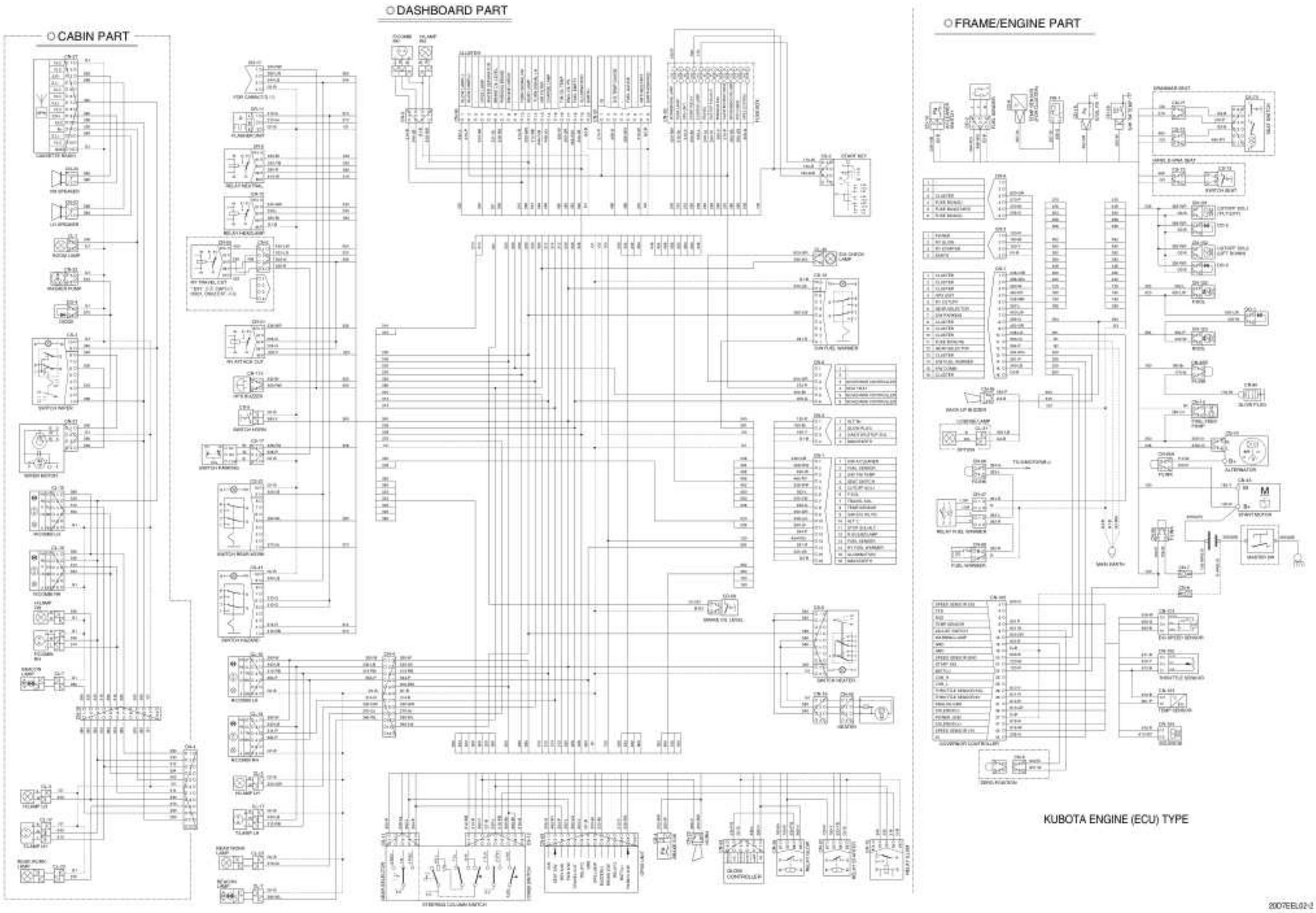
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2. HYDRAULIC CIRCUIT



1	Hydraulic gear pump	5	Steering cylinder
2	Priority valve	8	Suction strainer
4	Steering unit	11	Hydraulic tank

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