FORKLIFT

SERVICE MANUAL

35DF-7

HYUNDAI

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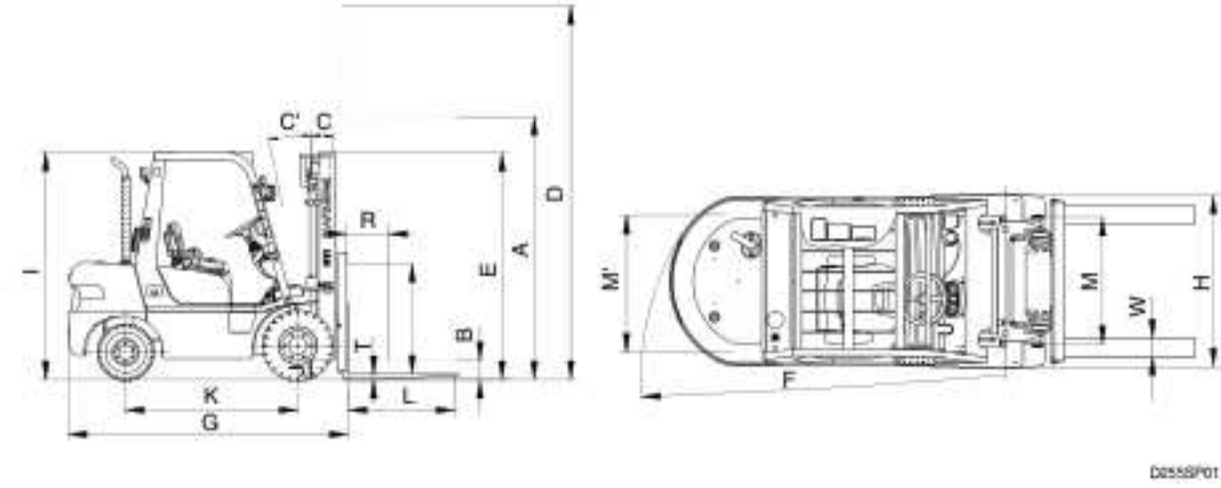
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2. SPECIFICATIONS



Model			Unit	35DF-7
Capacity			kg	3500
Load center		R	mm	500
Weight(Unloaded)			kg	4761
Fork	Lifting height	A	mm	3005
	Free lift	B	mm	155
	Lifting speed(Unload/Load)		mm/sec	460/420
	Lowering speed(Unload/Load)		mm/sec	450/500
	L×W×T	L,W,T	mm	1050×122×45
Mast	Tilt angle (forward/backward)	C/C'	degree	6/10
	Max height	D	mm	4185
	Min height	E	mm	2190
Body	Travel speed(Unload)		km/h	20.1
	Gradeability		degree	14.9
	Min turning radius(Outside)	F	mm	2463
ETC	Max hydraulic pressure		kgf/cm²	200
	Hydraulic oil tank		/	40
	Fuel tank		/	54
Overall length		G	mm	2777
Overall width		H	mm	1270
Overhead guard height		I	mm	2180
Ground clearance		J	mm	145
Wheel base		K	mm	1700
Wheel tread front/rear		M, M'	mm	1005/980

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(2) Remove the torque converter housing cover, mounting bolts installed to flywheel housing.
For details, see page 2-10.

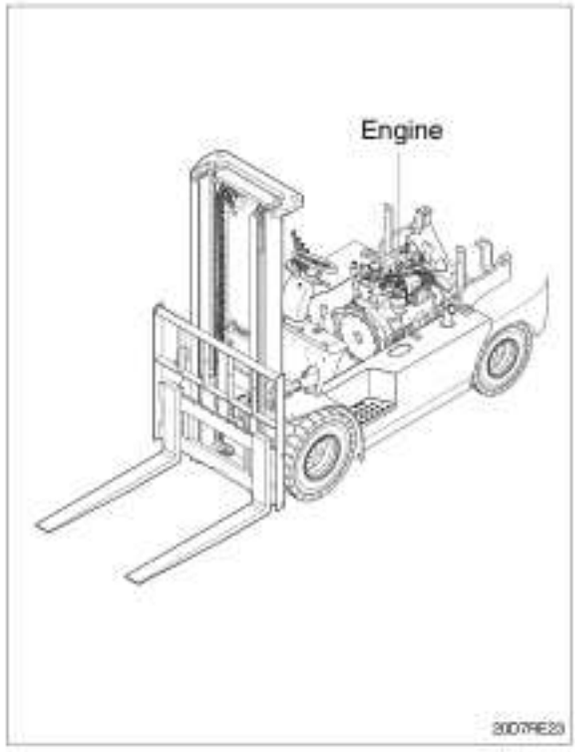
(3) Engine accessory

Remove all wiring harnesses, cables and hoses around the engine, dashboard and frame.

① Wiring harness to alternator and starter.
② Wiring harness for oil pressure and engine water temperature gauges.
③ Cables for meters, buttons and accelerator pedal.
④ Hoses to fuel tank and air cleaner.
⑤ Exhaust pipe.

(4) Radiator hose

Open the drain valve of the radiator and drain the cooling water, then remove the radiator hose.

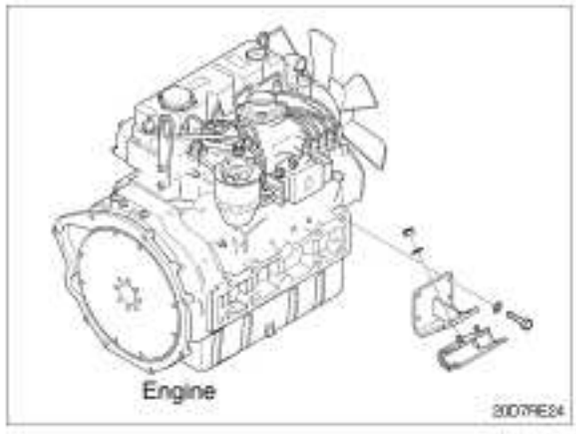


(5) Mounting bolt

Attach a crane to the engine hook and raise, then remove mounting bolts. Raise the engine slightly, slide towards the radiator, then lift up.

※ When sliding the engine, be careful of the collision engine and radiator.

⚠ When raising the engine, only must use appropriate lifting appliances which should be had sufficient capacity for lifting of the engine.



2) INSTALLATION

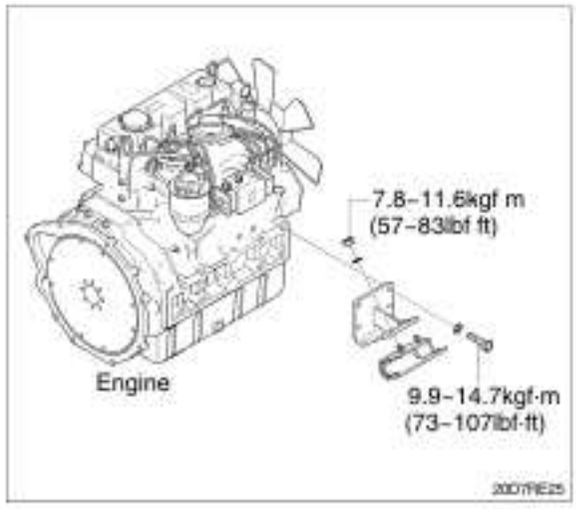
Installation is the reverse order of removal, but be careful of the following points.

(1) Tighten the engine mounting bolts and nuts.

(2) Tighten the engine mounting bracket bolts.

※ Do not remove the bolts unless necessary. Loctite is coated over the threads of bolt. So, once the bolts were removed, coat them with loctite (#243) when installing.

※ Before installing the bolts, loctite in the holes should be removed by a tap.



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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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