FORKLIFT

SERVICE MANUAL

15, 18, 20LA-7

HYUNDAI

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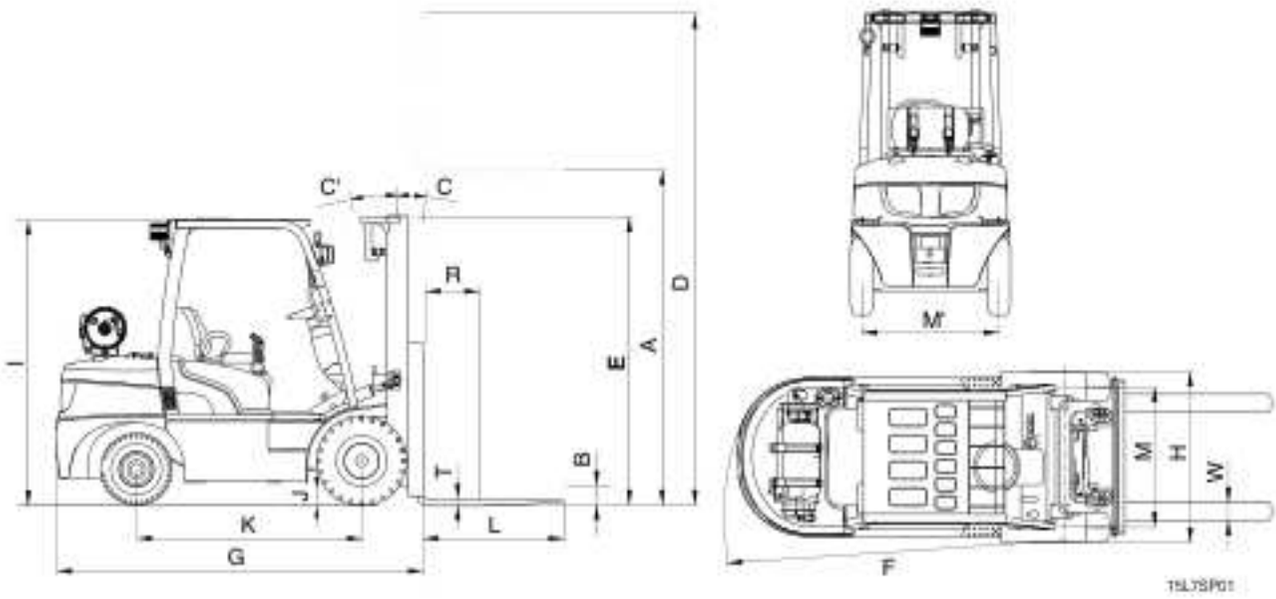
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2. SPECIFICATIONS



Description			Unit	15L-7,15G-7	18L-7, 18G-7	20LA-7, 20GA-7
Capacity			kg	1500	1750	2000
Load center		R	mm	500	←	←
Weight(Unloaded)			kg	2818	2992	3139
Fork	Lifting height	A	mm	3325	←	←
	Free lift	B	mm	145	←	150
	Lifting speed(Unload/Load)		mm/sec	680/650	←	←
	Lowering speed(Unload/Load)		mm/sec	450/500	←	←
	L × W × T	L,W,T	mm	900 × 100 × 35	←	900 × 100 × 40
Mast	Tilt angle (forward/backward)	C/C'	degree	6/10	←	←
	Max height	D	mm	4332	←	←
	Min height	E	mm	2155	←	←
Body	Travel speed		km/h	20.7	←	←
	Gradeability		degree	37	33.1	31
	Min turning radius(Outside)	F	mm	1985	2015	2050
ETC	Max hydraulic pressure		kgf/cm²	190	←	←
	Hydraulic oil tank		/	30	←	←
	Fuel tank		/	44	←	←
Overall length		G	mm	2233	2263	2303
Overall width		H	mm	1070	←	←
Overhead guard height		I	mm	2110	←	←
Ground clearance(Load)		J	mm	120	←	←
Wheel base		K	mm	1410	←	←
Wheel tread front/rear		M, M'	mm	890/910	←	←

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

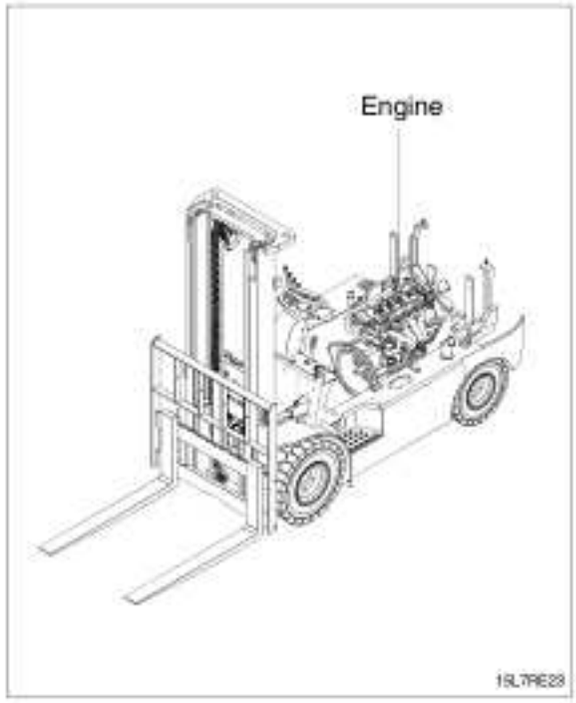
(3) Engine accessory

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 Hoses to fuel tank and air cleaner.
④ Exhaust pipe.

(4) Radiator hose

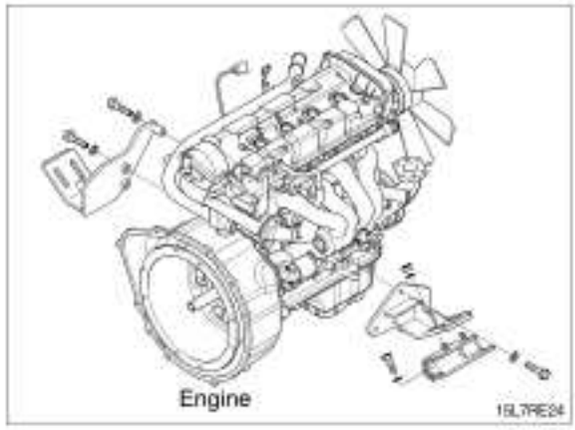
Open the drain valve of the radiator and drain the cooling water, then remove the radiator hose.



(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.



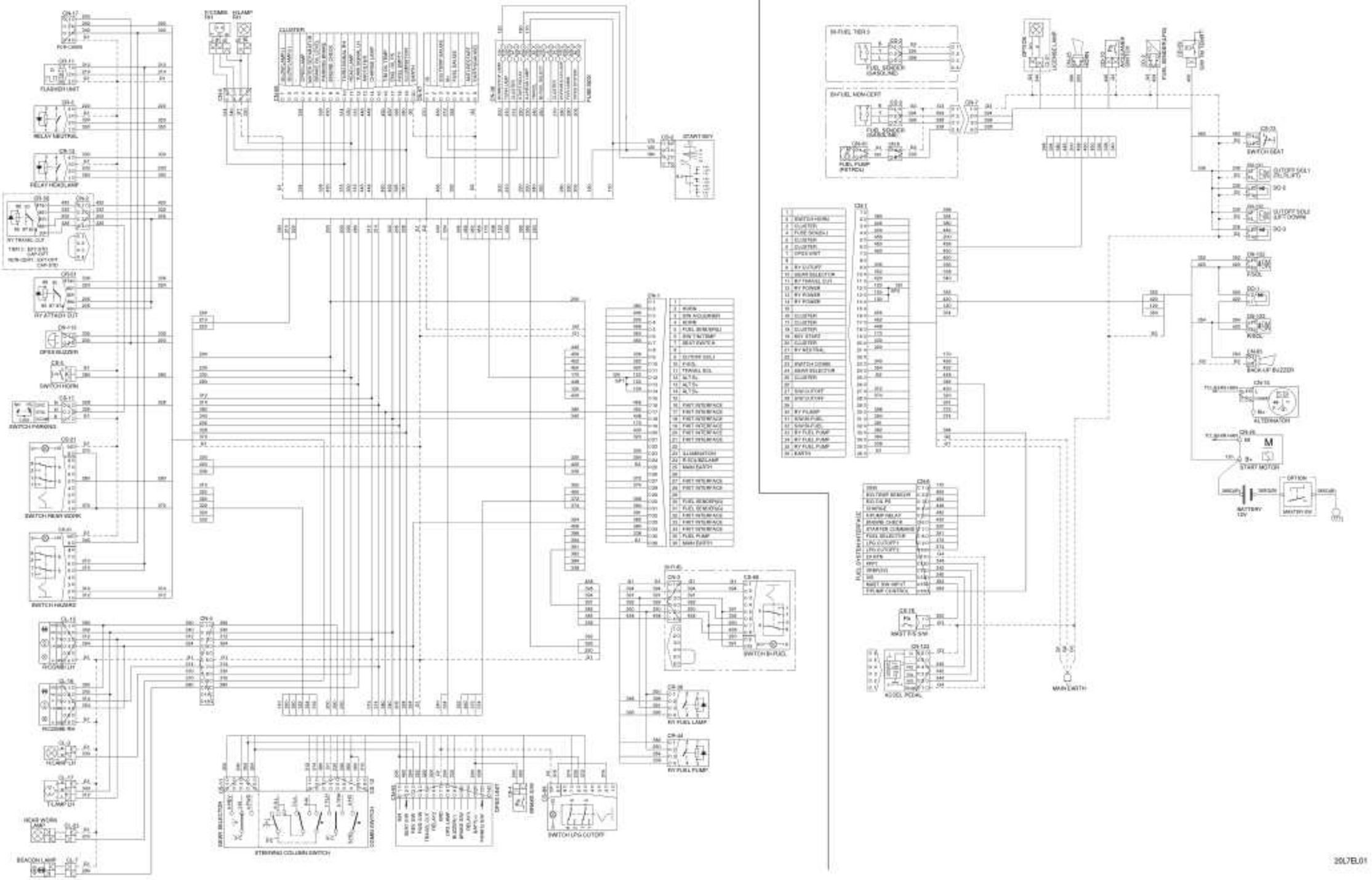
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Trouble symptom	Probable cause	Remedy
4. Unusual oil pressure		
1) Oil pressure is high	· Control valve malfunctioning.	(1)Check for spool operation. If necessary, replace valve. (2)Check for clogging of small hole in valve body. If necessary, clean or repair.
	· Cold weather. (high oil viscosity)	· When atmospheric temp is below freezing point (when normal oil pressure is recovered if heated to 60 – 80°C), change oil.
	· Use of improper oil.	· Check and change oil.
2) Oil pressure is low	· Gear pump malfunctioning(worn).	· Disassemble, check and replace.
	· Oil leaks excessively : (1)Control valve oil spring defective.	· Check spring tension (see spring specification). If necessary replace.
	(2)Control valve spool defective.	· Disassemble, check, and repair or replace valve.
	· Air sucked in.	· Check joints and pipes. If necessary, retighten joint or replace packing.
	· Low oil level.	· Check oil level and add oil.
	· Oil filter clogging.	· Check and replace.
3) Transmission	· Oil leaks excessively.	· Disassemble, check (piston ring and O-ring for wear and other defects), and replace.
5. Power is not transmitted		
1) Torque converter	· Clutch plate damaged.	· Check for damage by listening to abnormal sounds at a low converter speed and replace.
	· Low oil level.	· Check oil level and add oil.
	· Oil pump driving system faulty.	· Disassemble and check for wear of pump gear, shaft and spline. Replace defective parts.
	· Shaft broken.	· Check and replace.
	· Lack of oil pressure.	· Check oil pump gear for wear and for oil suction force. If necessary, replace pump.
2) Transmission	· Low oil level.	· Check oil level and add oil.
	· Inching valve and link lever improperly positioned.	· Check measure and adjust.
	· Forward/reverse spool and link lever improperly positioned.	· Check and adjust.
	· Clutch fails to disengage : (1)Clutch case piston ring defective.	· Disassemble, check and replace.
	(2)Main shaft plug slipping out.	· Disassemble, check and repair or replace.
	· Clutch seizing.	· Check to see whether or not machine moves even then transmission is in neutral position. If so, replace.
	· Shaft broken off.	· Disassemble, check(main shaft, etc.), and replace.
	· Clutch drum damaged (spring groove).	· Disassemble, check and replace.
	· Clutch snap ring broken.	· Disassemble, check and repair or replace.

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DASHBOARD PART

FRAME / ENGINE PART



20L7EL01

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