ENGINE SPECIFICATION

Model	4CHL-N		4CHL-TN		6CHL-N		6CHL-TN		6CHL-HTN	
Type	Vertical, water-cooled 4-cycle diesel engine									
Combustion System	Direct injection system									
Cylinder – bore x stroke (mm) (mm)	4 – 105 x 125				6 – 105 x 125					
Rated speed of revolution (rpm)	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800

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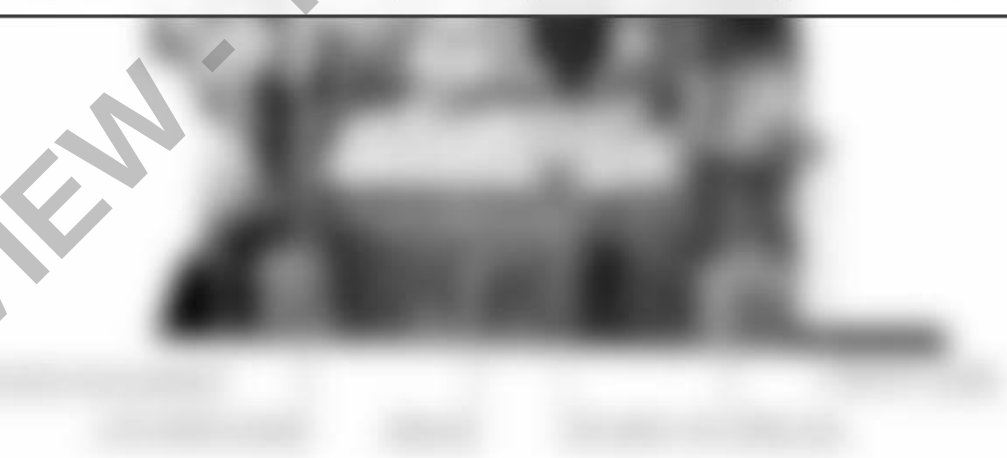
1 NOMENCLATURE

4CHL

Operating Side



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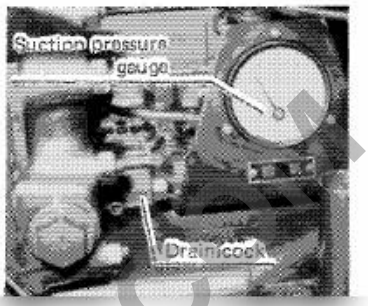


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5. **Suction pressure gauge**

Always check the suction pressure of the supercharger when under operation. If the pressure has dropped 10% below the initial pressure, clean the blower and filter.



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5-4 Air Bleeding of Fuel System

The fuel system includes the area from the fuel tank to the fuel injection valve.

When air enters into the fuel system, fuel is not injected. Completely bleed the air out of the system according to the following procedures.

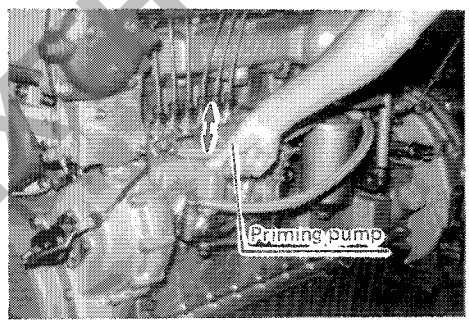
These procedures apply to the initial engine run and to the runs below.

- Fuel tank is empty.
- When fuel filter is changed.

[Procedures]

(1) Turn accelerator handle counterclockwise (reduce speed) to position of low speed. Next, turn 2 times clockwise (increase speed) and set in this position.

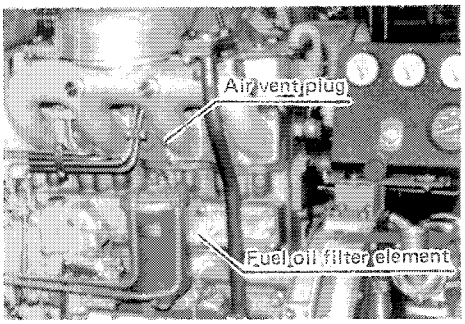
(2) Lossen the knob on the priming pump attached to the fuel pump and move up and down to pump fuel.



(3) Loosen air vent at the top part of the fuel filter, bleed until no more air bubbles are released, tighten the air vent and fully close priming pump knob while taking out fuel and cover.

When this is done air bleeding is completed.

Turn the starter switch to START and start the engine after 3 ~ 5 seconds.



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7 PERIODIC CHECKING AND SERVICING

7-1 Table of Periodic Checking and Servicing

To operate the engine always in a good condition, periodic checking and servicing are necessary. Refer to the table below for the number of driving hours when the check should be made and promptly replace any parts which are not in good working condition.

Item	Content	Daily	50 hrs	250 hrs	500 hrs	1000 hrs	2500 hrs	Ref. page
Fuel System	Check oil tank level and replenish.	○						20
	Drain fuel tank.	○ (when filling)						20
	Drain fuel filter.		○					20
	Replace fuel filter element.				○			20
Lube Oil System	Check oil level in oil pan and replenish.	○						20
	Drain lube oil filter.			○				21
	Replace lube oil filter element.		○ initial	○				21
	Change lube oil.		○ initial	○				21
Cooling Water System	Check level of cooling water and replenish.	○						22
	Change cooling water.					○		22
	Grease cooling water pump.						○	
Electric System	Check charged lamps.	○						13
	Adjust tension of Alternator (dynamo) V-belt.				○			22
	Check battery.			○				22
	Check wire harness					○		
Re-tighten hose clips (Fuel, lub.oil, cooling water, breather and air line)			○ initial		○			
Check and replacement of rubber hoses (Fuel, lub.oil, cooling water, breather and air line)		○ Check : per 2500 hrs ○ Replacement : per 5000 hrs						
Fuel Injection Pump & Fuel Valve	Adjust timing of fuel injection.						○	
	Adjust injection pressure and spray.					○		23
	Replace injection valve.						○	
Cylinder Head	Tighten head bolt.		○ initial			○		24
	Adjust valve clearance.		○ initial			○		24
	Lap suction and exhaust valves.						○ every 2 yrs	
Super-charger	Clean blower and filter.			○				25
	Check for air and gas leakage in joints.	○						14
Draining of exhaust manifold (6CHL-HT)		○						25
Check bolts and nuts.		○						14
Check for water, oil, gas leakage.		○						14

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1. **Adjustment Table**

Division		Value				
		4CHL-N	4CHL-TN	6CHL-N	6CHL-TN	6CHL-HTN
Injection Timing (FID)	1500rpm	$19^{\pm1}$	$20^{\pm1}$	$19^{\pm1}$	$20^{\pm1}$	$20^{\pm1}$
	1800rpm	$21^{\pm1}$		$21^{\pm1}$		
Fuel injection valve pressure		$220^{\pm10}$ kg/cm^2				

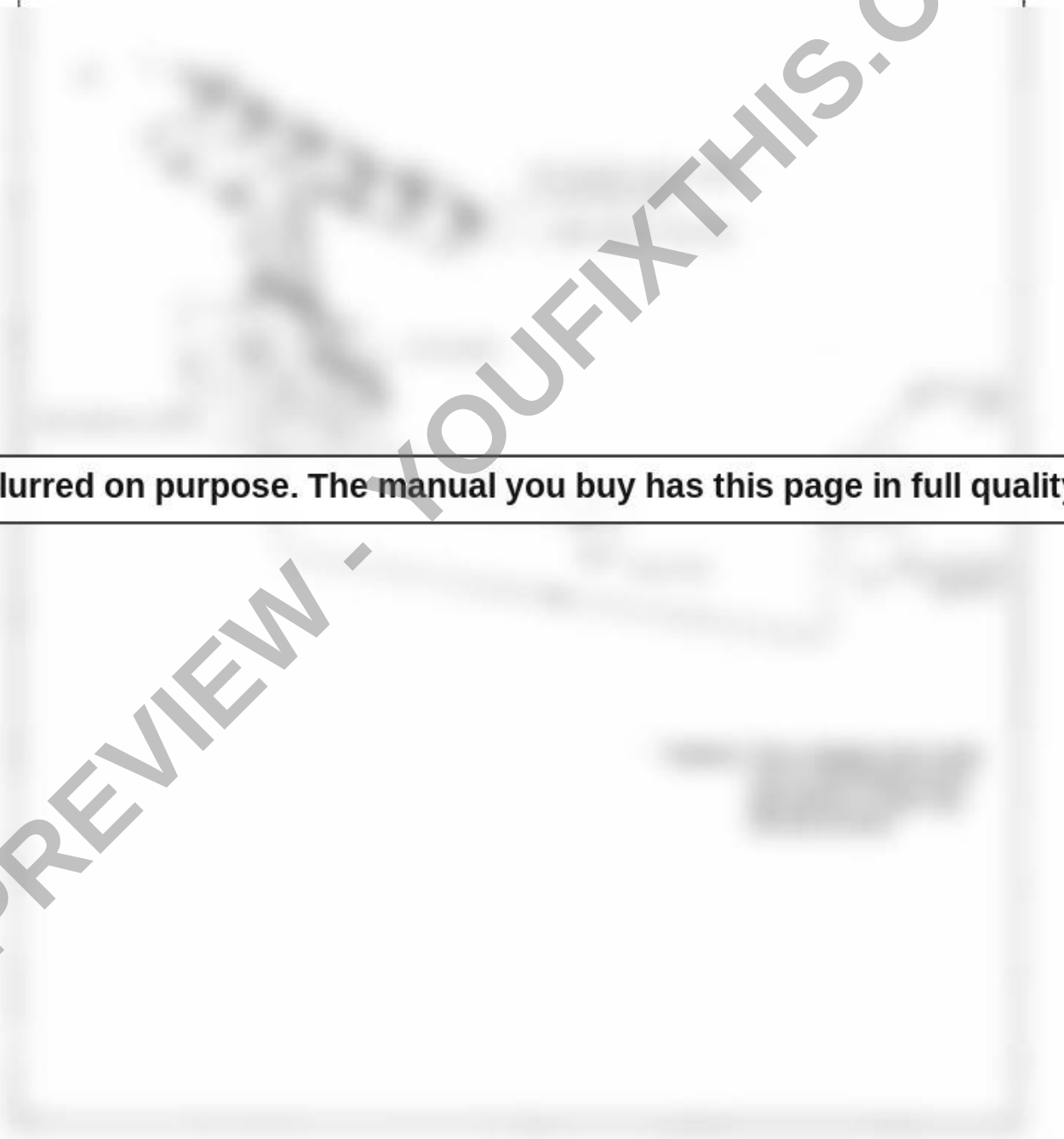
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8 SYSTEM DIAGRAMS

8-1 Fuel Oil System Diagram



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8-4 Electric Wiring System

1. Standing Engine Wiring Diagram

Cautions during Handling

1. This diagram is for standard wiring.
2. For further details see other diagrams.
3. Use battery 24V.
4. Do wiring after cutting off battery switch.

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