Marks of piping	Name
RH	Rubber hose

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2. Specifications

2-1 Engine

Model		3JH2-(B)E	3JH2-T(B)E
Type		Vertical 4-cycle water cooled diesel engine	
Combustion system		Direct injection	
Aspiration		Normal aspiration	Exhaust gas turbocharger
Number of cylinders		3	
Bore x stroke	mm (in.)	82 x 86 (3.23 x 3.39)	

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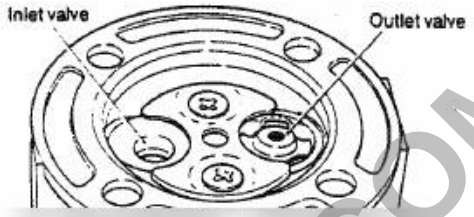
5-3 Disassembly and reassembly of fuel feed pump

5-3. 1 Disassembly

(1) Remove the fuel feed pump mounting nut, and take the fuel feed pump off the fuel injection pump.
(2) Clean the fuel feed pump assembly with fuel oil.
(3) After checking the orientation of the arrow on the cover, make match marks on the upper body and cover, remove the small screw, and disassemble the cover, upper body and lower body.

5-3. 2 Reassembly

(4) Valve contact/mounting
Clean the valve seat and valve with air to remove any foreign matter.



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2-1-2 Inspection of governor

Inspection of governor weight assembly

(1) Replace the governor weight if it does not open and close smoothly.

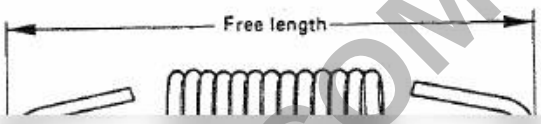


(2) Replace the governor weight if the contact surface with governor sleeve is extremely worn.

(3) Replace if there is governor weight support/pin wear or

(5) Inspection of springs

1) Check the governor spring and other springs and replace if they are broken, settled or corroded.
2) Measure the free length of the governor spring, and replace if it exceeds the limit.
   See service data sheet for free length of governor spring.

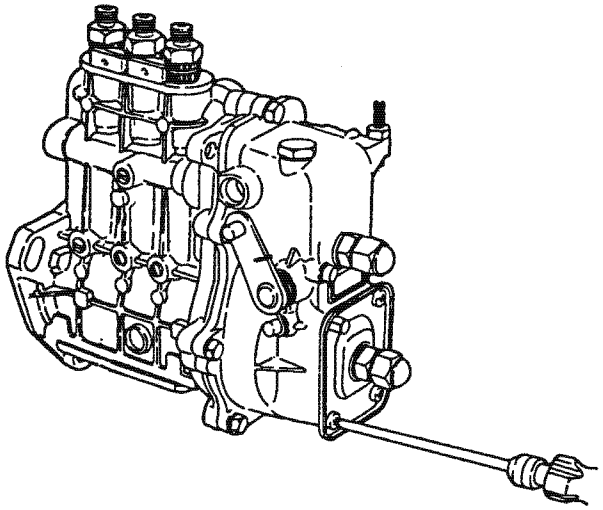


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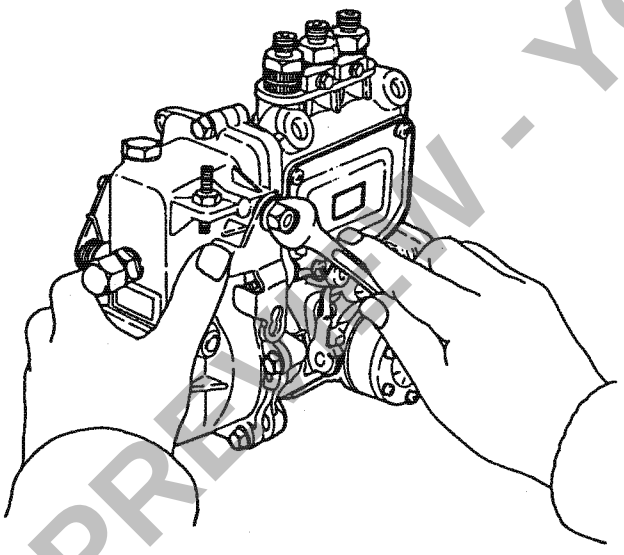
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(12) Mount the governor case to the fuel pump unit while lightly tapping it with a wooden hammer, and tighten the bolts.
(13) Place the adjusting spring and adjusting rod on the governor case cover adjusting bolt, and mount the governor case cover.



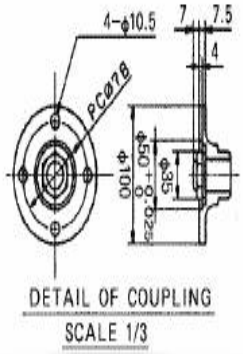
(14) Insert the control lever in the control lever shaft, and tighten the nut.



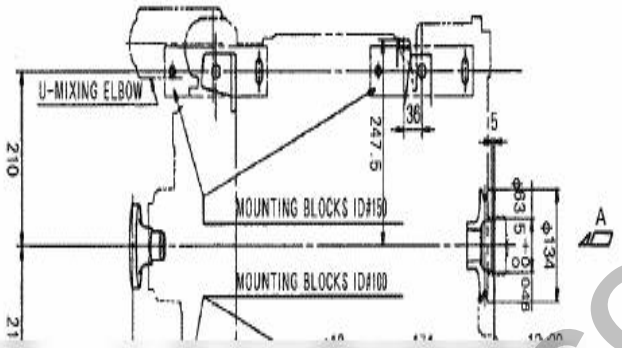
NOTE: Move the control lever back and forth to make sure that the entire link moves smoothly.

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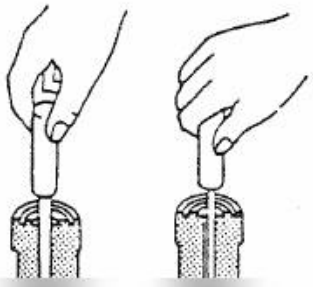


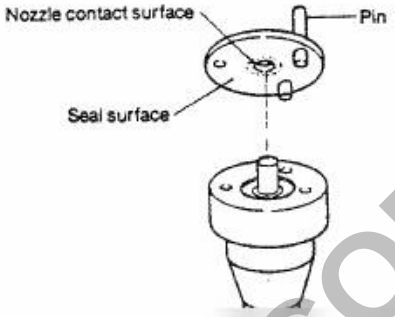
DETAIL OF COUPLING
SCALE 1/3



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(4) Clean the nozzle seat with cleaning spray.





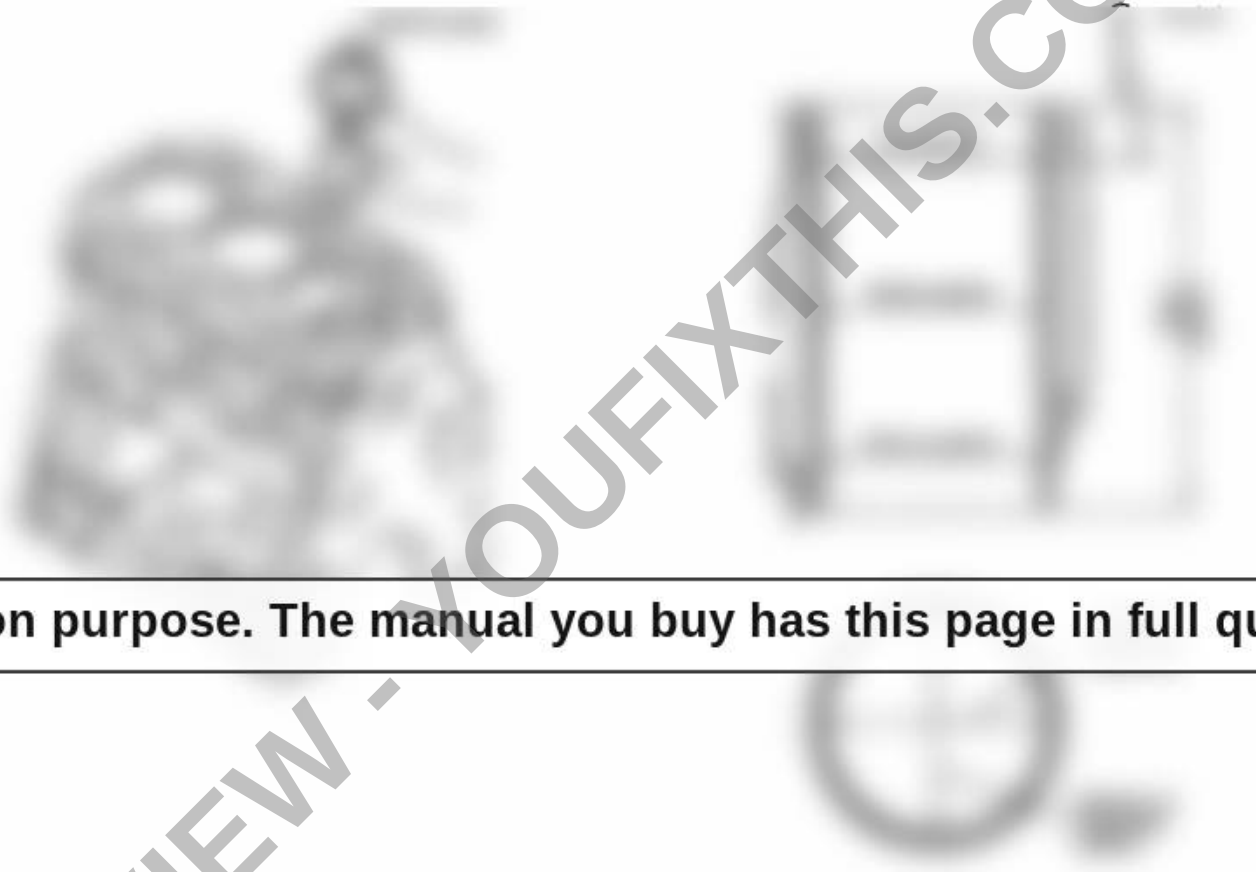
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1-5 Cylinder bore measurement

Measure the bore diameter with a cylinder gauge at the positions shown in the figure.
Replace the cylinder bore when the measured value exceeds the wear limit. Measurement must be done at least at 3 positions as shown in the figure, namely, top, middle and bottom positions in both directions along the crankshaft rotation and crankshaft center lines.



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10. Fuel Tank (Optional)

A triangular 30 liter fuel tank with a 2000mm (78.7402in.) rubber fuel hose to fit all models is available as an option. A fuel return connection is provided on top of the tank to which a rubber hose can be connected to return fuel from the fuel nozzles.



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6. Camshaft and Tappets

6-1 Camshaft

The camshaft is normalized and the cam and bearing surfaces are surface hardened and ground. The cams have a curve that minimizes the repeated shocks on the valve seats and maximizes valve seat life.



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CHAPTER 4

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