4JB1 ISUZU ENGINES

Service Manual

7-28470

CASE CONSTRUCTION

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SECTION 1

GENERAL INFORMATION

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SECTION 2

MAINTENANCE

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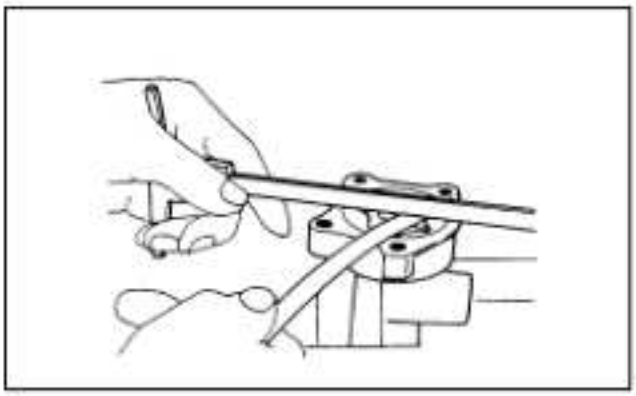
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Note: Maintenance intervals such as fuel or oil filter changes should be referred to in the Operator's Manual.

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INSPECTION AND REPAIR

Make the necessary adjustments, repairs, and part replacements if excessive wear or damage is discovered during inspection.

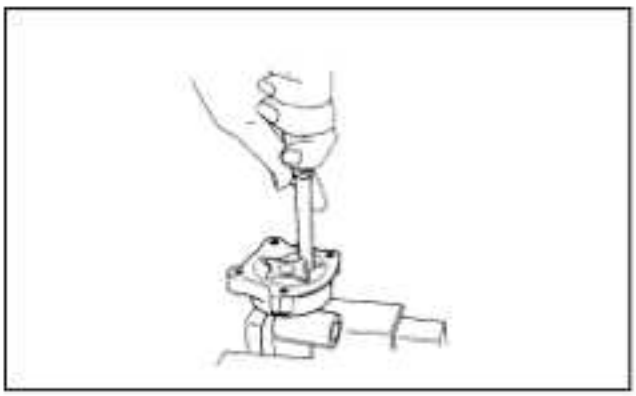


Vane, rotor, and cover clearance

Use a feeler gauge to measure the clearance between the vane, the rotor, and the cover.

If the clearance between the vane, the rotor and the cover exceeds the specified limit, the rotor set (pin, shaft, rotor and vane) must be replaced.

Vane, rotor and cover clearance:
Standard: 0.02 - 0.07 mm (0.0008 - 0.0026 in)
Limit: 0.15 mm (0.006 in)

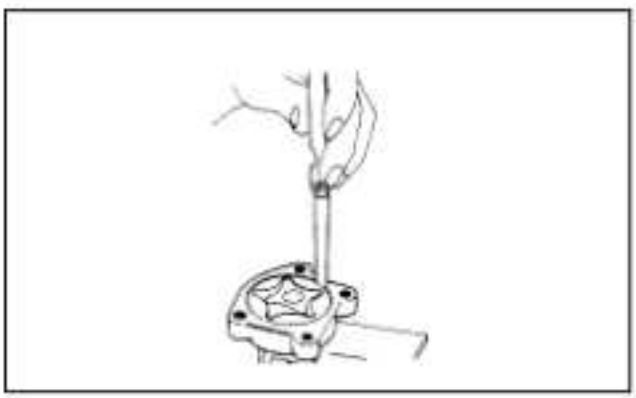


Rotor and vane clearance

Use a feeler gauge to measure the clearance between the rotor and the vane.

If the clearance between the rotor and the exceeds the specified limit, the rotor set (pin, shaft, rotor, and vane) must be replaced.

Rotor and vane clearance:
Standard: 0.14 mm (0.006 in) or less
Limit: 0.20 mm (0.008 in)

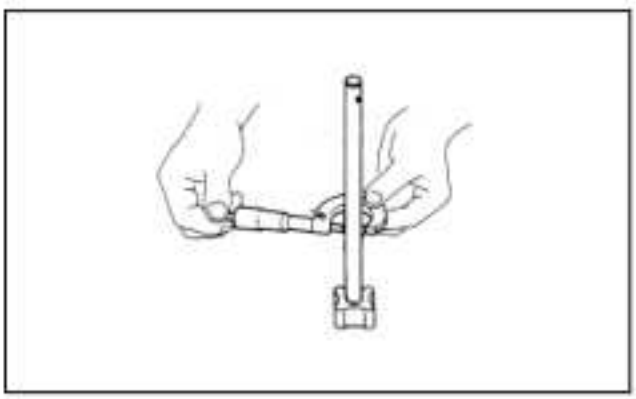


Vane and pump body clearance

Use a feeler gauge to measure the clearance between the vane and the pump body.

If the clearance between the vane and the pump body exceeds the specified limit, the entire pump assembly must be replaced.

Vane and pump body clearance:
Standard: 0.20 - 0.27 mm (0.008 - 0.011 in)
Limit: 0.40 mm (0.016 in)



Rotor drive shaft and oil pump body clearance

Use a micrometer to measure the rotor shaft outside diameter.

Use an inside dial indicator to measure the pump body inside diameter.

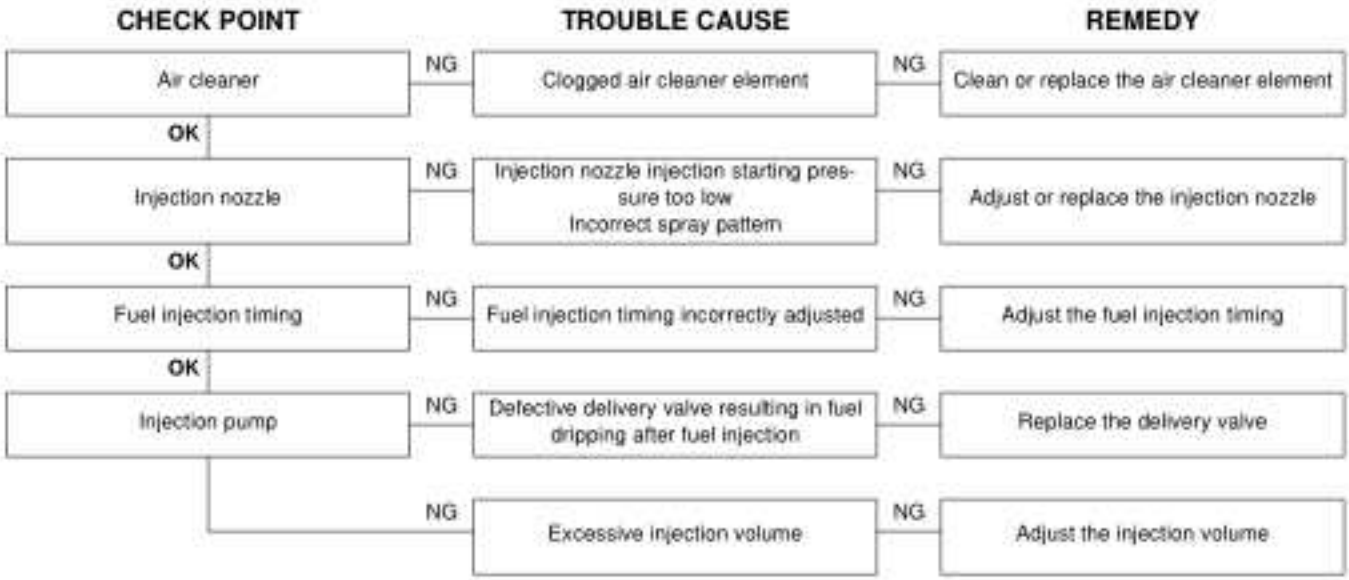
If the clearance between the rotor shaft and the pump body exceeds the specified limit, the entire pump assembly must be replaced.

Rotor shaft and pump body clearance:
Standard: 0.04 mm (0.0016 in)
Limit: 0.20 mm (0.008 in)

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DARK EXHAUST SMOKE



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