

Please rate this document after reviewing at the bottom of this page.

TROUBLESHOOTING

Trouble Symptom	Probable Cause	Remedy
Coolant leakage	• From the bleed hole of the water pump	Visually check • Check leaks after about 10 minutes of warming up. • If coolant still leaks, replace the water pump. • If leakage stops, reuse the water pump. (Do not replace the pump with a new one.)
	• From gaskets or bolts	• Check the tightening of the water pump mounting bolts. • Retighten the mounting bolts.
	• From outer surface of water pump	• Check damage of gaskets or inflow of dust. • Replace the gasket and clean dust off.
		• Check the material for any cracks of the water pump. • Material defect. If any cracks are found, replace the water pump.
Noise	• From bearings • From mechanical seals • Impeller interference	Inspection with a stethoscope • After starting the engine, check noise with a stethoscope. • If there is no noise, reuse the water pump (do not replace it). • If there is any noise from the water pump, remove the drive belt and recheck.
		Inspection after removing the drive belt. • After removing the water pump and the drive belt, check noise again. • If there is noise, reuse the water pump. Check other drive line parts. • If there is no noise, replace the water pump with a new one.
	Inspection after removing the water pump	• After removing the water pump and the drive belt, check noise again. • If there is any interference between them, replace the water pump with a new one.
Overheating	• Damaged impeller • Loose impeller	Loose impeller • Corroded impeller wing • Poor coolant quality / Maintenance check
		• Impeller separated from the shaft • Replace the water pump.

* Thanks for your cooperation for the more quality. Please surely rate this document before closing.