

Troubles	Probable Cause	Remedy	Procedure
Noise			
Tappet noise	• Tappet clearance	Adjust	Adjust the proper clearance if it is too large.
	• Wear of rocker arm and shaft	Replace	Replace the rocker arm and shaft if excessively worn.
Piston slap	• Large clearance between piston and cylinder	Replace	Piston or cylinder should be replaced, use its oversize of piston and piston ring.
	• Large clearance of bearing ends of connecting rod	Repair	Replace the worm parts when the connecting rod to piston pin or to crank pin clearance are excessively large.
Cam chain noise	• Cam chain tensioner, chain and wear of sprocket teeth	Adjust or replace	<ul style="list-style-type: none"> • Perform the adjustment or replacement if the cam chain tensioner is inoperative. • The stretched chain should be replaced. • Excessive worm teeth of sprocket (cam side, timing side) should be replaced.
Clutch chattering noise	Clutch outer and friction disk	Replace	• Replace the worn parts if there are excessive looseness between them.
Crankshaft noise	Bent center of crankshaft and crank pin, worn bearing	Align and replace	Align the crankshaft if there are excessive deflection at the center of crank shaft. Bent crank pin and worn bearing should also be replaced.
Primarily drive gear's noise	Drive or driven gear	Inspect and replace	Carefully check to the teeth face of drive or driven gear on which there are excessive wear, replace them.