

## 5. TROUBLE SHOOTING

## Engine

Trouble	Probable cause	Remedy
<b>Engine does not start</b>	<ol style="list-style-type: none"> <li>1. Insufficient compression pressure               <ol style="list-style-type: none"> <li>1) Incorrect tappet adjustment</li> <li>2) Worn valve guide or improper valve seating</li> <li>3) Incorrect valve timing</li> <li>4) Worn piston rings</li> <li>5) Worn cylinder</li> </ol> </li> <li>2. No sparking at spark plug and contact point               <ol style="list-style-type: none"> <li>1) Dirty spark plug</li> <li>2) Wet spark plug</li> <li>3) Dirty contact breaker point</li> <li>4) Improper point gap</li> <li>5) Incorrect ignition timing</li> <li>6) Defective ignition coil</li> <li>7) Disconnection or short circuit of ignition cord</li> <li>8) Short circuit in condenser</li> </ol> </li> <li>3. Fuel does not flow to carburetor               <ol style="list-style-type: none"> <li>1) Clogged vent hole in tank cap</li> <li>2) Clogged fuel valve</li> <li>3) Defective carburetor float valve</li> <li>4) Clogged fuel feed pipe</li> </ol> </li> </ol>	Adjust Replace or repair Adjust Replace Replace  Clean Clean Clean Adjust Adjust Replace Replace Replace  Clean Clean Replace Clean
<b>Engine stalls soon</b>	<ol style="list-style-type: none"> <li>1. Dirty spark plug</li> <li>2. Dirty contact breaker point</li> <li>3. Incorrect ignition timing</li> <li>4. Clogged fuel feed pipe</li> <li>5. Clogged carburetor jet</li> <li>6. Incorrect tappet adjustment</li> </ol>	Clean Clean Adjust Clean Clean Adjust
<b>Noisy engine</b>	<ol style="list-style-type: none"> <li>1. Noisy tappet               <ol style="list-style-type: none"> <li>1) Large tappet clearance</li> <li>2) Loss of valve spring tension</li> </ol> </li> <li>2. Piston knocking               <ol style="list-style-type: none"> <li>1) Worn piston ring or cylinder</li> <li>2) Carbon accumulated in combustion chamber</li> <li>3) Worn piston pin or connecting rod small end</li> </ol> </li> <li>3. Cam chain               <ol style="list-style-type: none"> <li>1) Stretched cam chain</li> <li>2) Worn cam sprocket or timing sprocket</li> </ol> </li> <li>4. Noisy clutch               <ol style="list-style-type: none"> <li>1) Loose clutch center spline</li> <li>2) Excessive clearance between clutch friction disc and teeth of clutch outer housing</li> <li>3) Warped friction disc or clutch plate</li> </ol> </li> <li>5. Crankshaft               <ol style="list-style-type: none"> <li>1) Worn crankshaft bearing</li> <li>2) Worn connecting rod big end</li> </ol> </li> <li>6. Noisy gear               <ol style="list-style-type: none"> <li>1) Worn transmission gear or interference between gears</li> <li>2) Worn spline</li> <li>3) Worn primary gear or interference between gears</li> </ol> </li> </ol>	Adjust Replace  Replace Clean Replace  Replace or adjust cam chain tensioner Replace  Replace Replace  Replace or repair  Replace Replace  Replace Replace Replace