

3. ENGINE NOISE

Trouble	Probable cause	Corrective action
1. Tappet noise	<ol style="list-style-type: none"> Excessive tappet clearance Worn tappet 	<ol style="list-style-type: none"> Adjust to proper clearance Repair or replace
2. Piston slap	<ol style="list-style-type: none"> Worn piston, cylinder Carbon deposit in combustion chamber Worn piston pin bore, connecting rod small end 	<ol style="list-style-type: none"> Repair or replace Remove carbon Repair or replace
3. Cam chain noise	<ol style="list-style-type: none"> Tensioner out of adjustment Stretched chain Worn teeth on cam sprocket, timing sprocket 	<ol style="list-style-type: none"> Readjust Replace Replace
4. Clutch knock	<ol style="list-style-type: none"> Worn clutch plate outer tab area Worn clutch center spline 	<ol style="list-style-type: none"> Repair or replace Repair or replace
5. Crankshaft noise	<ol style="list-style-type: none"> Crankshaft end play Worn crankshaft bearing 	<ol style="list-style-type: none"> Repair or replace Repair or replace
6. Engine noise (magneto noise)	<ol style="list-style-type: none"> Chafing between kick arm and oil seal Breaker point noise, defective slipper surface 	<ol style="list-style-type: none"> Repair Replace A.C generator assembly

4. STEERING SYSTEM

Trouble	Probable cause	Corrective action
1. Handle operates heavy	<ol style="list-style-type: none"> Overtorqued steering cone race Damaged steering steel balls Bent steering stem 	<ol style="list-style-type: none"> Readjust Replace Repair
2. Front or rear wheel shimmy	<ol style="list-style-type: none"> Loose bearing in front or rear wheel Bent rim on front or rear wheel Loose spoke Worn rear fork pivot bushing Twisted frame Drive chain adjuster out of adjustment Defective tire 	<ol style="list-style-type: none"> Check for wear and replace as required Straighten by loosening or tightening the spokes. Replace if uncorrectable Replace Repair or replace Adjust to proper value Replace
3. Pulls to one side	<ol style="list-style-type: none"> Right and left cushions not balanced, front or rear. Misalignment of front and rear cushions Bent front fork Bent rear fork Bent front axle Loose component in steering system 	<ol style="list-style-type: none"> Replace Replace Repair Repair Repair Repair

5. CLUTCH SYSTEM

Trouble	Probable cause	Corrective action
1. Clutch slips	<ol style="list-style-type: none"> Loss of tension in clutch springs Worn or warped clutch plate Worn or warped clutch friction disc 	<ol style="list-style-type: none"> Replace Replace Repair or replace
2. Clutch will not disengage	<ol style="list-style-type: none"> Excessively worn clutch friction disc Improper adjustment 	<ol style="list-style-type: none"> Repair or replace Adjust to proper specification
3. Clutch out of adjustment (engine stalls)	<ol style="list-style-type: none"> Warped clutch plate or friction disc Uneven tension of clutch spring 	<ol style="list-style-type: none"> Repair Measure tension and repair or replace

6. GEAR CHANGE SYSTEM

Trouble	Probable cause	Corrective action
1. Gears will not engage	<ol style="list-style-type: none"> Broken lug on shift drum Broken lug on shift arm broken Unsmooth movement between shift drum and shift fork Broken shift fork Broken lug on counter shaft second gear Broken lug on main shaft second and third gear 	<ol style="list-style-type: none"> Replace Replace Repair Replace Replace Replace
2. Gear change pedal not returning	<ol style="list-style-type: none"> Broken shift return spring Gear shift spindle rubbing against case or cover 	<ol style="list-style-type: none"> Replace Repair
3. Gear jumps out of engagement	<ol style="list-style-type: none"> Worn lug on counter shaft second gear Worn lug on main shaft second and third gear Worn or bent shift fork Broken or loss of tension of shift drum stopper spring. 	<ol style="list-style-type: none"> Repair or replace Repair or replace Replace Replace