# 206 APPENDIX

Other noise Connecting rod small end clearance excessive Connecting rod big end clearance excessive Piston ring(s) worn, broken, or stuck Piston seizure damage Cylinder head gasket leaking Exhaust pipe leaking at cylinder head connection Crankshaft runout excessive Engine mounts loose Crankshaft bearings worn Primary chain, chain guides worn Starter motor chain worn Balancer chain, chain tensioner worn Camshaft chain tensioner defective Camshaft chain, sprocket, guides worn Camshaft chain requires adjustment Balancer mechanism springs weak or broken

## Abnormal Drive Train Noise

#### **Clutch noise**

Clutch housing/friction plate clearance excessive Weak or damaged shock absorber spring(s)

Transmission noise Bearings worn Transmission gears worn or chipped

Metal chips jammed in gear teeth Engine oil insufficient or too thin Kick ratchet gear not properly disengaging from kick gear

# Drive chain noise

Drive chain adjusted improperly Chain worn Rear and/or engine sprocket(s) worn Chain lubrication insufficient Rear wheel misaligned

#### **Abnormal Frame Noise**

Front fork shock absorber noise Oil insufficient or too thin Spring weak or broken Rear shock absorber noise Shock absorber defective Disc brake noise Pad B loose Pad surface glazed Disc warped Caliper seal defective Cylinder damaged Other noise Brackets, nuts, bolts, etc. nor properly mounted or tightened

### **Oil Pressure Indicator Light Goes On**

Engine oil pump defective Engine oil screen clogged Engine oil level too low Engine oil viscosity too low Camshaft bearings worn Crankshaft bearings worn Oil pressure indicator light switch defective Wiring defective Reliefvakestuckope,

**Exhaust Smokes Excessively** White smoke Piston oil ring worn Cylinder worn Valve oil seal damaged Valve guide worn 0 rings at the cylinder oil passage orifice are damaged Engine oil level too high Black smoke Air cleaner clogged Main jet too large or fallen off Starter plunger stuck open Fuel level too high Brown smoke Main jet too small Fuel level too low Carburetor intake ducts loose Air cleaner poorly sealed or missing Handling and/or Stability Unsatisfactory Handlebar hard to turn Steering stem locknut too tight Bearing balls damaged Race(s) dented or worn Steering stem lubrication inadequate Steering stem bent Tire air pressure too low Handlebar shakes or excessively vibrates Tire(s) worn Swing arm bush and sleeve worn Rim(s) warped, or not balanced Spokes loose Wheel bearing(s) worn Handlebar clamps loose Steering stem head bolt and/or clamp bolt loose Handlebar pulls to one side Frame bent Wheel misalignment Swing arm bent or twisted Steering stem bent Front fork shock absorber(s) bent Right/left front fork shock absorber oil level uneven Right/left rear shock absorbers unbalanced Shock absorption unsatisfactory Too hard: Front fork oil excessive Front fork oil viscosity too high Tire air pressure too high Shock absorber maladjusted Front fork shock absorber(s) bent Too soft Front fork oil insufficient and/or leaking Front fork oil viscosity too low Front fork, rear shock absorber spring(s) weak Rear shock absorber oil leaking **Brakes Don't Hold Disc Brake** 

Air in the brake line