



POOR HIGH SPEED PERFORMANCE

1. Check ignition timing & valve clearance

INCORRECT TIMING & CLEARANCE

POSSIBLE CAUSE

- (1) Incorrect timing adjustment
- (2) Incorrect valve clearance

CORRECT TIMING & CLEARANCE

2. Disconnect fuel tube at carburetor and check for clogging

RESTRICTED FUEL FLOW

- (1) Empty fuel tank
- (2) Clogged fuel tube
- (3) Clogged fuel tank cap breather hole

UNRESTRICTED FUEL FLOW

3. Check fuel filter, fuel valve, & carburetor jet for clogging

CLOGGED

- (1) Clogged jet
- (2) Clogged fuel filter
- (3) Clogged fuel valve

NOT CLOGGED

4. Replace carburetor main jet

CONDITION AGGRAVATED

- (1) Jet size too small
- (2) If condition improved with small jet:
 - a) Clogged air cleaner
 - b) Choke not opened fully

CONDITION IMPROVED

5. Check valve timing

INCORRECT

- (1) Incorrect valve timing adjustment

CORRECT

6. Check valve spring tension

WORN OR BROKEN SPRING

- (1) Faulty valve spring

SPRING TENSION CORRECT

SMOKING EXHAUST

1. Run motorcycle a long distance at high speed

BLACK SMOKE EMITTED

POSSIBLE CAUSE

- (1) Worn cylinder & piston rings
- (2) Oil level too high
- (3) Piston rings incorrectly installed
- (4) Faulty piston or cylinder
- (5) Flaws in cylinder head

THIN EXHAUST EMITTED

2. Return throttle grip quickly

WHITE SMOKE EMITTED

- (1) Worn intake valve guide or stem
- (2) Deteriorated valve guide O-ring

NO WHITE SMOKE EMITTED

3. Run motorcycle a long distance at low speed

WHITE SMOKE EMITTED

- (1) Worn exhaust valve guide & stem
- (2) Exhaust valve guide incorrectly seated
- (3) Worn exhaust valve stem seal

UNCOLORED EXHAUST