

**CAUTION:** To prevent moisture, make sure no air is trapped in. Do not use silicone sealant as contacts will corrode.

Lubricate the drive chain, the pivot points of all levers and cables.

Start the motorcycle, allow it to warm test-ride for several minutes.

**WARNING:** Wet brake linings reduce braking ability. Ride with care until brakes respond properly.

### Cylinder base nuts and cylinder head nuts retorque

#### 125 engine

Loosen cylinder head nuts in a criss-cross sequence to prevent head warpage.

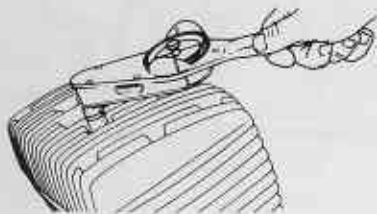
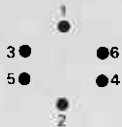
Remove cylinder head.

Torque cylinder base nuts in a criss-cross sequence to 30 N•m (22 ft-lbs).

Install the cylinder head shims (if any), replace head and tighten head nuts gradually in a criss-cross pattern. Torque head nuts to 16 N•m (12 ft-lbs).

#### 250 engine

Torque head nuts gradually in a criss-cross pattern to 19 N•m (14 ft-lbs).



#### 400 engine

Torque head nuts gradually in a criss-cross pattern to 38 N•m (28 ft-lbs).

### Engine timing

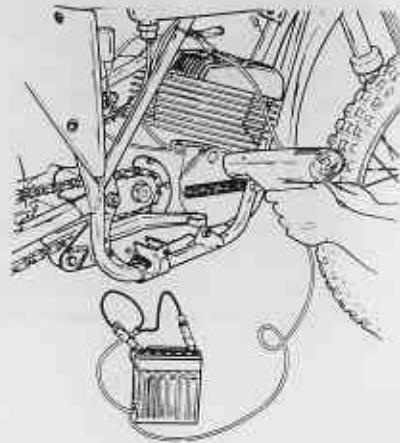
Remove the timing inspection plug, and connect the timing light pick-up to the high tension lead.



Start the engine and allow it to warm.

**WARNING:** To prevent powerful electric shock, do not touch the high tension wire while engine is running.

Point the timing light beam straight into the inspection hole, and rev. the engine to 5000 R.P.M. for a brief instant.



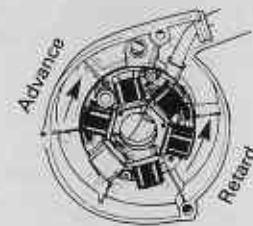
If the timing is correct, the timing marks will align as shown. Stop the engine.



**NOTE:** If possible, use a tachometer for accuracy.

**CAUTION:** Never crank engine with spark plug wire detached from spark plug or damage to CDI box will occur.

If the timing marks do not align, remove the magneto cover, slacken the stator plate retaining screws and move the stator plate in the advance or retard position to correct the misalignment.



Repeat this procedure until timing marks are perfectly aligned at 5000 R.P.M.

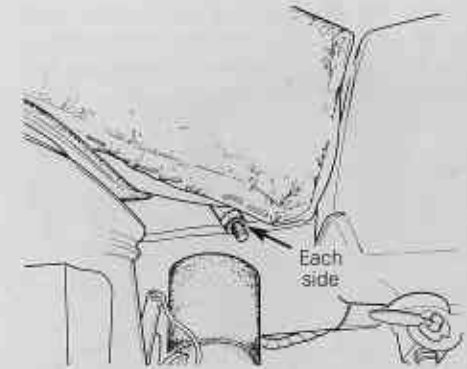
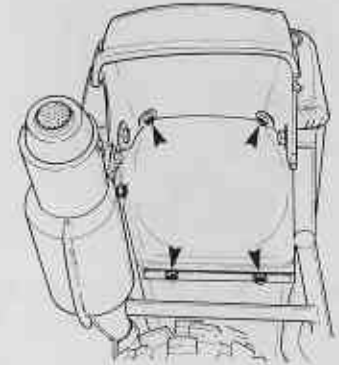
**NOTE:** Only stroboscopic timing lights utilizing a capacitor or inductive pick-up can be used to indicate correct spark setting without disturbing the electronic equilibrium of the ignition circuit. Use a separate battery to supply the timing light.

Examples of suitable timing light:

- Sun PTL 45
- Snap-on MT215B
- Bosch EFAW169A
- Marquette 41-220

### Air filter servicing

Remove the seat by removing the 4 hexagonal nuts holding the seat base and the 2 hexagonal nuts holding the front portion.



Clean the area around the filter. Remove the air filter.

