

## 4-10 ENGINE TOP END

## Cylinder Head Cover

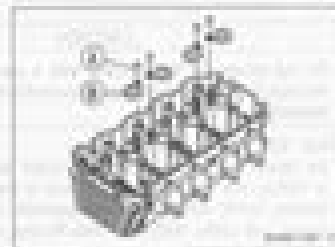
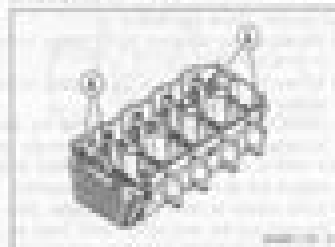
## Cylinder Head Cover Removal

- Remove the timing (CRF1000), see Timing chapter.
- Open the coolant (see Cooling System chapter).
- Remove:
  - Leaf Chains (above the Cylinder Head)
  - Throttle Shutter Bolt (A)
  - Spark Plug Caps (B)
  - Coolant Hoses (C) over the cylinder head cover
  - Vacuum-Switch Valve and Hoses (D) (see this section)
  - Radiator Side Covers (E)
  - Belt Bolt (F) (water belt)
- Remove the buffer (G) from the motorcycle right side (H).
- Unscrew the bolts (I) and remove the cylinder head cover (J) from the left side (K).



## Cylinder Head Cover Installation

- Visually inspect the head cover gasket. If damaged, replace the head cover gasket with a new one.
- Apply silicone sealant (A) to the cylinder head as shown.



- Install:
  - Coolant Filler (A)
  - Plug Hole Gaskets (B) (with the flat side up)



- Install the cylinder head cover (J).
- Install the washers (K) with the metal side upwards.
- Tighten:
  - Cylinder Head Cover Bolts (L) : 8.8 Nm (7.8 kg-m, 57 in-lb)

## Camshaft Chain Tensioner

## Camshaft Chain Tensioner Removal

## CAUTION

This is a non-return type cam chain tensioner. The push rod does not return to its original position once it moves out to take up camshaft chain slack. Observe all the rules listed below.

When removing the tensioner, do not take out the mounting bolts only halfway. Re-tightening the mounting bolts from this position could damage the tensioner and the camshaft chain. Once the bolts are loosened, the tensioner must be removed and reset as described in "Camshaft Chain Tensioner Installation."

Do not turn over the crankshaft while the tensioner is removed. This could upset the cam-chain timing, and damage the valves.

- Remove:
  - Pickup Coil Cover (see Valve Clearance Adjustment)
  - Chain Tensioner Cap (A)
  - Washer (B)
  - Spring (C) and Pin (D)
  - Tensioner Mounting Bolts (E)
- Take the crankshaft chain tensioner off the cylinder.



## Camshaft Chain Tensioner Installation

- Push the stopper (A) to release the catch and push (B) the push-rod into the tensioner body.



- Install the tensioner body (A) with the arrow mark (B) pointing upwards.

Re-pennmarked Locking Agent:- Chain Tensioner Mounting Bolts

- Tighten:

Torque : Chain Tensioner Mounting Bolts (C) : 14.4 Nm (1.2 kg-m, 104 in-lb)

- Install the pin, spring, and washer.

- Tighten:

Torque : Chain Tensioner Cap (D) : 20.4 Nm (1.8 kg-m, 14.8 ft-lb)

- Turn the crankshaft 2 turns counterclockwise to allow the tensioner to expand.

- Install the pickup coil cover (see Valve Clearance Adjustment).



# Kawasaki Zrx1200s 2003 Repair Service Manual

**Phil Mather**



## **Kawasaki Zrx1200s 2003 Repair Service Manual:**

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