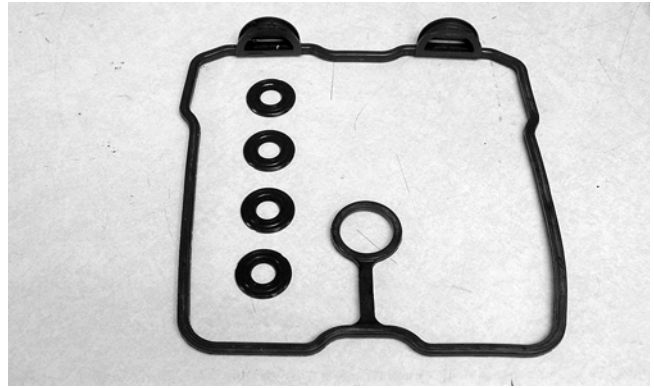




FI102



FI122

## Top-Side Components

■NOTE: For efficiency, it is preferable to remove and disassemble only those components which need to be addressed and to service only those components. The technician should use discretion and sound judgment.

### ⚠ AT THIS POINT

To service any one specific component, only limited disassembly of components may be necessary. Note the AT THIS POINT information in each sub-section.

■NOTE: The engine/transmission does not have to be removed from the frame for this procedure.

## Removing Top-Side Components

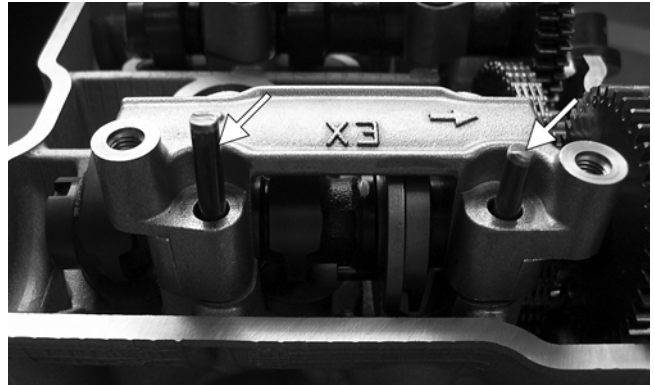
### A. Cylinder Head Cover

### B. Cylinder Head/Camshafts

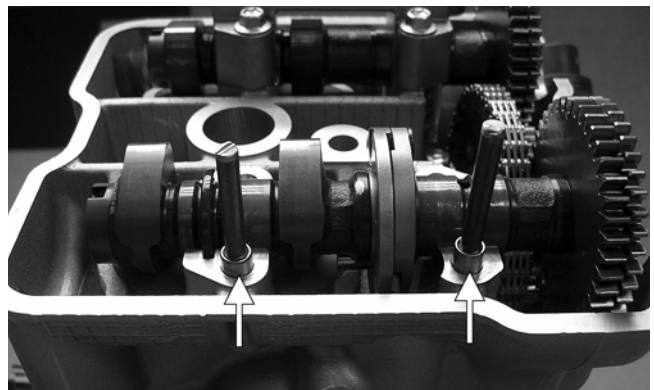
■NOTE: Remove the spark plug and timing inspection plug; then using the recoil starter, rotate the crankshaft to top-dead-center of the compression stroke. Account for a copper washer on the timing inspection plug.

1. Remove the cylinder head cover. Account for a gasket and four seal washers.

2. Check and record valve tappet clearance for reference when assembling (see Section 2).
3. Remove the eight cap screws securing the camshaft holders to the cylinder head.
4. Install two alignment studs in the exhaust camshaft holder; then carefully remove the cam shaft holder. Account for two alignment pins.



FI125A



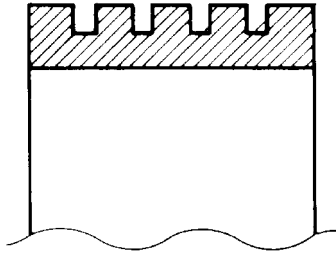
FI123A

■NOTE: Alignment studs can be made by cutting the heads off two 6 mm x 5 cm cap screws and will aid in preventing loss of the alignment pins into the crankcase.

2. Inspect the depth of the grooves in the clutch shoes. If any shoe is worn to the bottom of the groove, replace the complete set.

### ⚠ CAUTION

Always replace clutch shoes as a complete set or severe imbalance could occur.



Inspecting clutch shoe groove

ATV1014

## Inspecting Centrifugal Clutch Housing

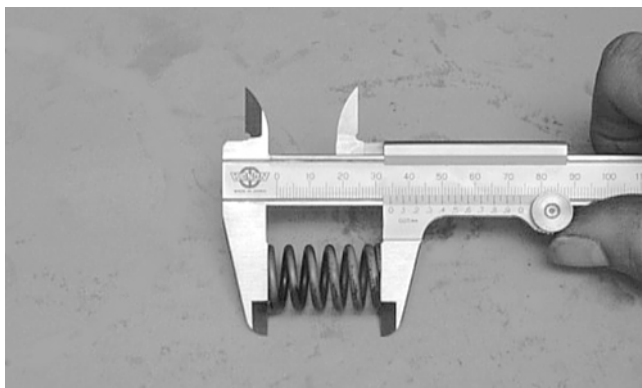
1. Inspect the clutch housing for burns, marks, scuffs, cracks, scratches, or uneven wear.
2. If the housing is damaged in any way, the housing must be replaced.

## Inspecting Primary One-Way Drive

1. Insert the drive into the clutch housing.
2. Rotate the inner race by hand and verify the inner race rotates only one direction.
3. If the inner race is locked in place or rotates both directions, the drive assembly must be replaced.

## Measuring Clutch Spring Length

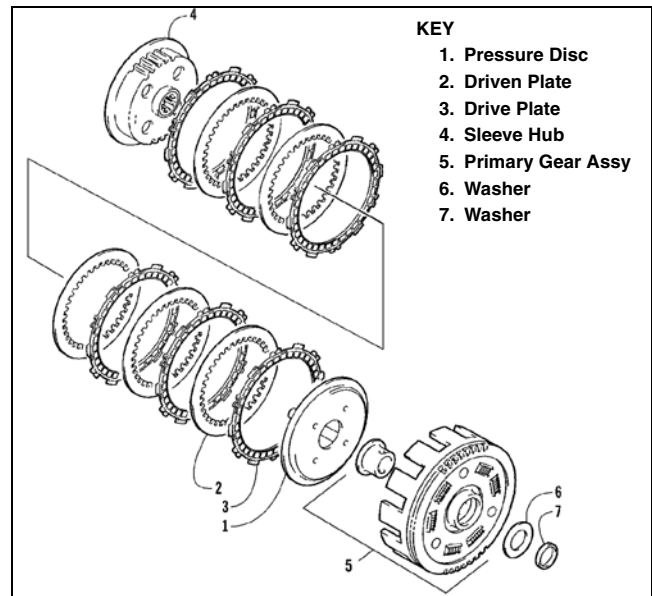
1. Using a calipers, measure the overall free length of the clutch spring.



CC247D

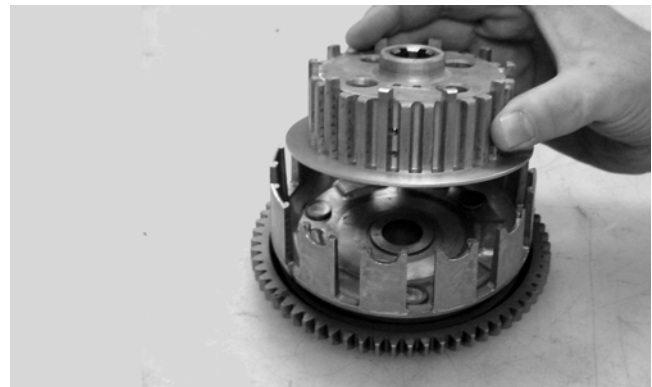
2. Overall length must not exceed minimum specifications.

## Assembling Primary Clutch



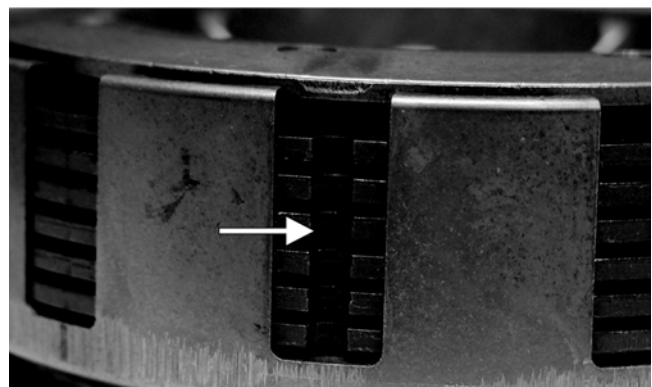
737-731A

1. Place the clutch hub upside down into the primary gear assembly.



CC920

2. Alternately install the drive plates and driven plates onto the hub (starting and ending with a drive plate) making sure the tabs with the notches are all in line with each other.



CF044A

3