



#### REMOVING THE CAMSHAFTS

##### 1. Align:

- TDC mark on the pickup coil rotor (with the camshaft mating surface)

\*\*\*\*\*

- Turn the camshaft sprockets.
- When piston #1 is at TDC on the compression stroke, align the TDC mark (8) on the pickup coil rotor with the camshaft mating surface (9).

##### NOTE:

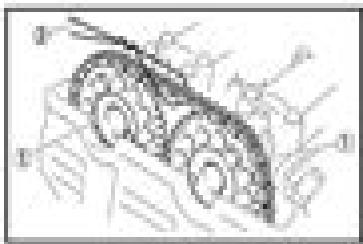
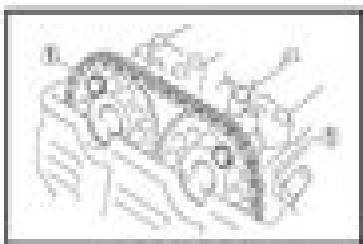
TDC on the compression stroke can be found when the camshaft lobes are turned away from each other.

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\*\*\*\*\*

##### 2. Loosen:

- camshaft special bolts (1)



##### 3. Loosen:

- cam bolt (1)

##### 4. Remove:

- timing chain tensioner (2)
- gasket

##### 5. Remove:

- camshaft sprocket (1)

##### NOTE:

To prevent the timing chain from falling into the camcase, fasten it with a wire (3).

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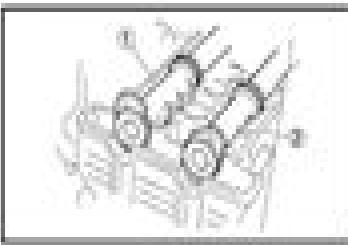
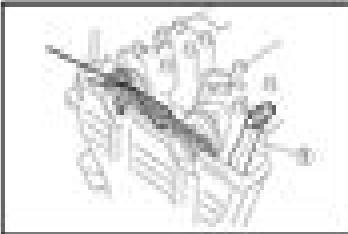


#### 6. Remove:

- timing chain guide (exhaust side) (4)
- camshaft cap
- lock pins

#### CAUTION:

To prevent damage to the cylinder head, camshafts or camshaft caps, loosen the camshaft cap bolts in stages and in a cross-cross pattern, working from the outside in.



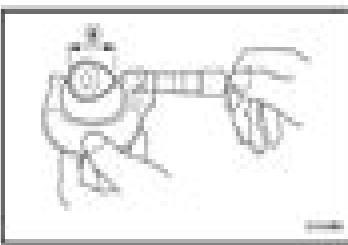
#### 7. Remove:

- intake camshaft (5)
- exhaust camshaft (6)

#### CHECKING THE CAMSHAFTS

##### 1. Check:

- camshaft lobes
  - Blue discolouration/pitting/scratches → Replace the camshaft.



##### 2. Measure:

- camshaft lobe dimensions (3) and (4)
- Out of specification → Replace the camshaft.



#### Camshaft lobe dimension limit Intake camshaft

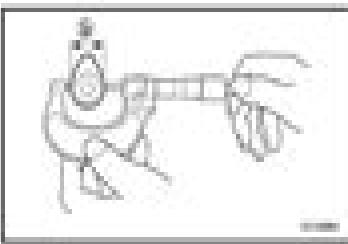
- (1) 32.4 mm (1.2756 in)

- (2) 34.05 mm (1.3435 in)

#### Exhaust camshaft

- (1) 32.05 mm (1.2732 in)

- (2) 33.65 mm (1.3235 in)



# 2003 Yamaha R1 Manual

**Huangqi Zhang**

## 2003 Yamaha R1 Manual:

**Yamaha YZF-R1, '98-'03** Haynes Publishing, 2018-05-01 Each Haynes manual provides specific and detailed instructions for performing everything from basic maintenance and troubleshooting to a complete overhaul of the machine in this case the Yamaha YZF R1 model years 1998 through 2003 Do it yourselfers will find this service and repair manual more comprehensive than the factory manual making it an indispensable part of their tool box A typical Haynes manual covers general information troubleshooting lubrication and routine maintenance engine top end engine lower end primary drive clutch and external shift mechanism transmission and internal shift mechanism engine management system electrical system wheels tires and drivebelt front suspension and steering rear suspension brakes body and color wiring diagrams An index makes the manual easy to navigate

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