

REMOVING THE CAMSHAFTS

1. Align:

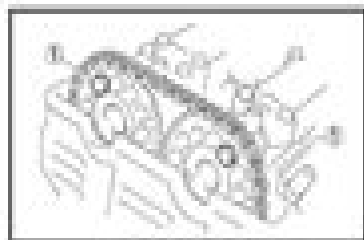
- TDC mark on the pickup coil rotor (with the crankcase mating surface)

a. Turn the crankshaft clockwise.

- When piston #1 is at TDC on the compression stroke, align the TDC mark ① on the pickup coil rotor with the crankcase mating surface ②.

NOTE:

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



2. Loosen:

- camshaft sprocket bolts ①

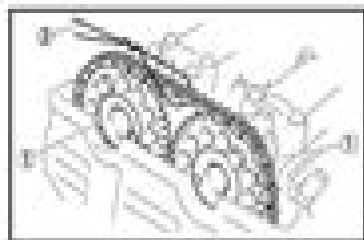


3. Loosen:

- cap bolt ①

4. Remove:

- timing chain tensioner ②
- gasket

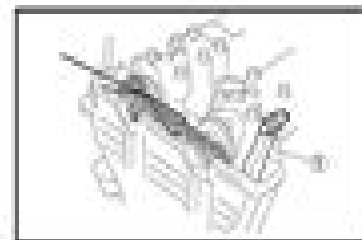


5. Remove:

- camshaft sprockets ①

NOTE:

To prevent the timing chain from falling into the crankcase, fasten it with a wire ②.

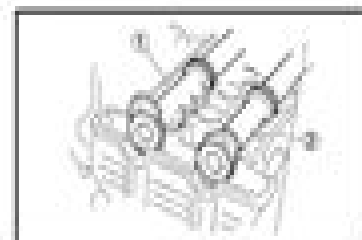


6. Remove:

- timing chain guide (exhaust side) ①
- camshaft caps
- drive pins

CAUTION:

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



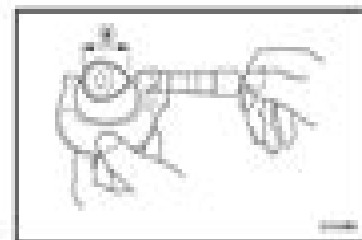
7. Remove:

- intake camshaft ①
- exhaust camshaft ②

CHECKING THE CAMSHAFTS

1. Check:

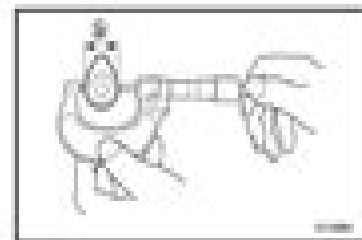
- camshaft lobes
Blue discoloration/pitting/scratches →
Replace the camshaft.



2. Measure:

- camshaft lobe dimensions ① and ②
Out of specification → Replace the camshaft.

	Camshaft lobe dimension limit	
	Intake camshaft	
	①	32.4 mm (1.2754 in)
	②	24.85 mm (0.9785 in)
	Exhaust camshaft	
	①	32.85 mm (1.2933 in)
	②	24.85 mm (0.9785 in)



Yamaha R1 2003 Service Manual

Matthew Coombs



Yamaha R1 2003 Service 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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