

REMOVING THE CAMSHAFTS

1. Align:

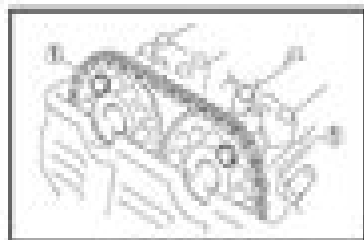
- TDC mark on the pickup coil rotor (with the crankcase mating surface)

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

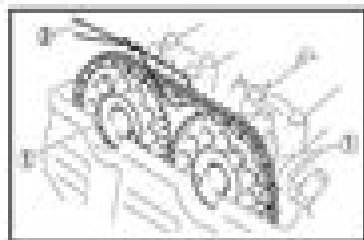


3. Loosen:

- cap bolt ①

4. Remove:

- timing chain tensioner ②
- gasket

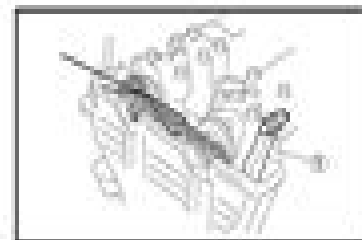


5. Remove:

- camshaft sprockets ①

NOTE:

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

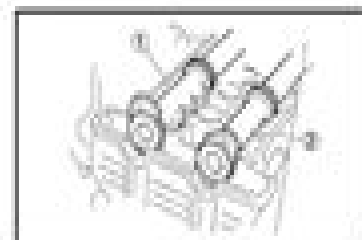


6. Remove:

- 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.



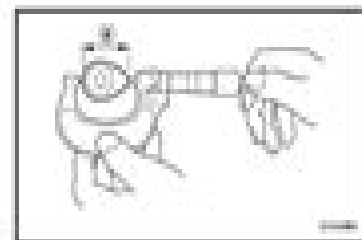
7. Remove:

- intake camshaft ①
- exhaust camshaft ②

CHECKING THE CAMSHAFTS

1. Check:

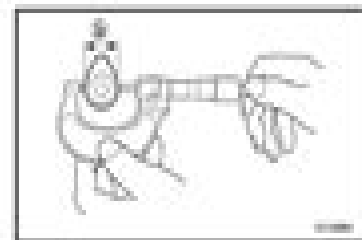
- camshaft lobes
Blue discoloration/pitting/scratches →
Replace the camshaft.



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 2003 R1 Manual

ML Morrison



Yamaha 2003 R1 Manual:

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