

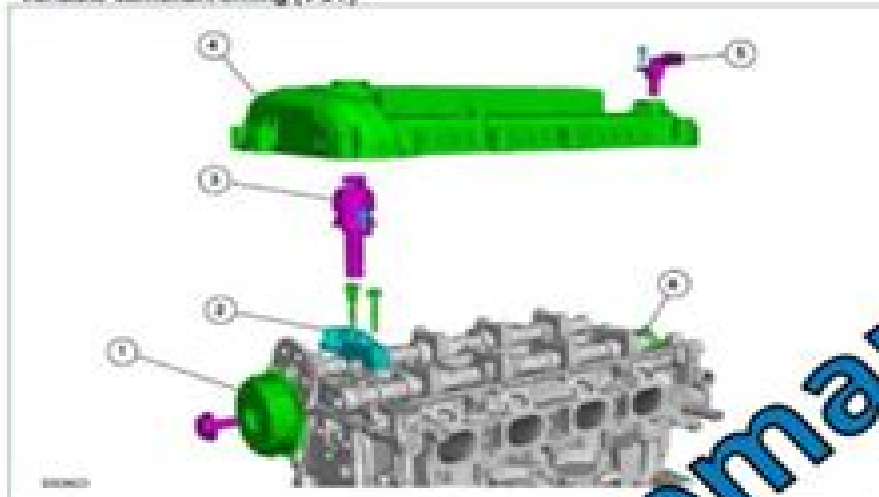
Ford Ranger 2011-2015 Workshop Manual

DESCRIPTION AND OPERATION

Item	Description
1	Engine code

Item	Description
2	Engine serial number

Variable camshaft timing (VCT)



Item	Description
1	Control unit - variable camshaft timing
2	Camshaft bearing cap
3	VCT oil control solenoid

Item	Description
4	VCT oil control solenoid
5	Camshaft bearing cap
6	Camshaft

This system is an electronically controlled camshaft timing system. It allows variable timing for the intake and exhaust valves. The timing is controlled by the engine control unit (ECU) and the VCT oil control solenoid.

The valves are driven by a timing chain. The timing chain is driven by the crankshaft and the camshaft. The timing chain is connected to the camshaft and the crankshaft. The timing chain is connected to the camshaft and the crankshaft.

The intake camshaft is driven by the timing chain. The intake camshaft is driven by the timing chain. The intake camshaft is driven by the timing chain.

The exhaust camshaft is driven by the timing chain. The exhaust camshaft is driven by the timing chain. The exhaust camshaft is driven by the timing chain.

Timing chain replacement does not require the variable camshaft timing control unit to be disconnected.

A special tool is needed to fit the camshafts in the adjustment position.

Remember that this special tool must not be used to keep the camshaft from rotating when mounting the camshaft sprockets. They may only be kept from rotating by using the hexagon, which has been specially provided for this purpose.

Advantages of variable camshaft timing (VCT)

- Lower fuel consumption due to improved volumetric efficiency

REMOVAL AND INSTALLATION

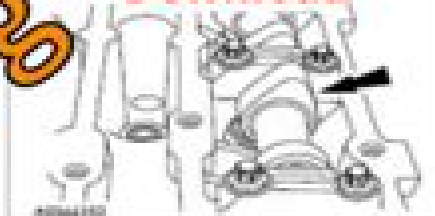
7. Torque: 32 Nm



8. Torque: 22 Nm



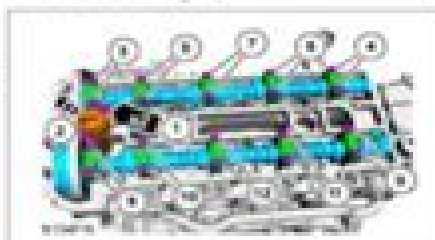
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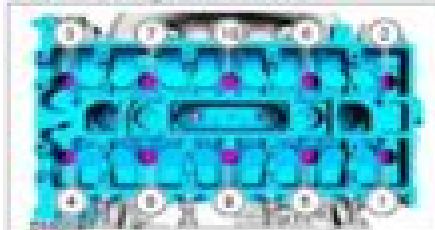
9. CAUTIONS:

- Failure to follow the camshaft lowering procedure can result in damage to the camshafts.
- Note the position of each component before removal.

NOTE: Mark the location and orientation of each camshaft bearing cap.



10. Disconnect the cylinder head bolts



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**Mark Christman, John B. Raffa, John
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 Chilton Book Company Repair Manual , 1989 *Ford Ranger workshop manual*, 1998 Ford Motor Company, 1998
 Haynes Ford Ranger and Bronco II Owners' Workshop Manual, No. 1026 Homer Eubanks, John Harold Haynes, 1991
 Ford Pick-ups and Bronco Automotive Repair Manual Mark Christman, John B. Raffa, John Harold Haynes, 1995-01-01

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