

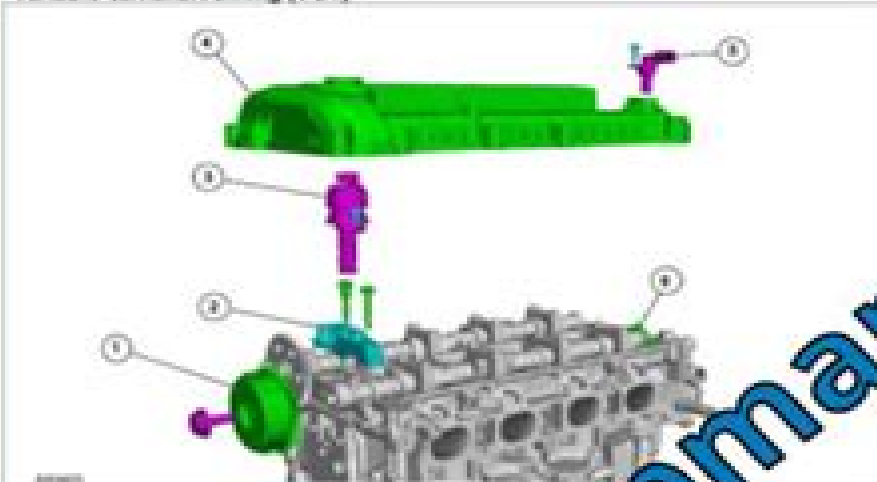
Ford Ranger 2011-2018 Workshop Manual

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	Camshaft sensor ring

This system is an electronically controlled camshaft timing system that allows variable timing for the camshaft.

The valves are driven by a timing chain. The timing chain drives the inlet camshaft timing control unit, which drives the associated camshaft. The timing chain is tensioned using a timing chain tensioner.

The inlet camshaft timing control unit is connected to the active camshaft position (CMP) sensor. This CMP sensor is located inside the valve cover.

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

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

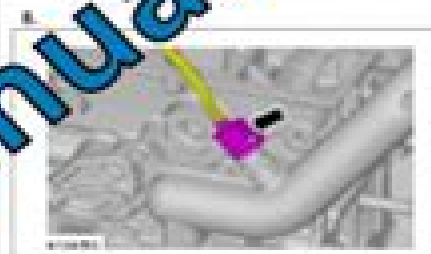
Remember that this special tool must not be used to keep the camshaft from rotating when mounting the camshaft sprocket. They may only be kept from rotating by using the hexagon, which has been specially provided for this purpose.

Advantages of variable camshaft timing (VCT):

- Lower fuel consumption due to improved volumetric efficiency

REMOVAL AND INSTALLATION

7. Torque 65 Nm



8. Torque 23 Nm



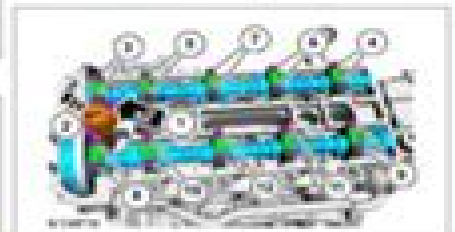
Mark the position No. 1 cylinder



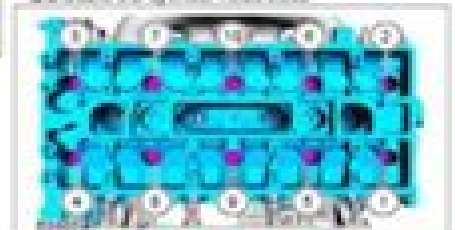
9. CAUTIONS:

- Failure to follow the camshaft loosening 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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Multidisciplinary Accident Investigation Summaries. Vol. II. No. 5 ,1971 Department of Transportation and Related Agencies Appropriations for 1994: Department of Transportation: Federal Highway Administration United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Transportation and Related Agencies Appropriations,1993

Hybrid Electric Vehicles Chris Mi,M. Abul Masrur,2025-09-18 Introduction to all types of hybrid electric vehicles HEVs with coverage of fundamentals applications and the latest industry technologies Hybrid Electric Vehicles Principles and Applications with Practical Perspectives provides an introduction to hybrid vehicles from hybrid electric hybrid hydraulic and plug in hybrid electric vehicles to fuel cell vehicles and off road hybrid vehicular systems The book focuses on the propulsion systems for these vehicles including issues related to power and energy management Other topics covered include hybrid vs pure electric hybrid electric vehicle HEV system architecture including plug in charging control and hydraulic safety and EMC storage technologies vehicular power and energy management diagnostics and prognostics and electromechanical vibration issues This Third Edition has been updated to address the latest industry trends and technologies impacting HEVs such as more detailed discussions on planetary gear synchronous reluctance motors fast charging methods for batteries and matters pertaining to cybersecurity in vehicles The latest HEV industry data and examples highlighting automakers current HEV models are featured throughout the book Topics discussed in Hybrid Electric Vehicles Principles and Applications with Practical Perspectives include Specific state of the art HEVs including the Toyota Prius the Honda Civic and the Ford Escape with additional coverage of two mode hybrid vehicles HEV fundamentals covering performance powertrain component sizing gradability requirements and selection of gear ratios Cold start emissions reduction and cold hot weather performance enhancement Electric and hybrid ships aircraft and locomotives with discussion on industrial utilization of other types of vehicles Military applications of HEVs covering ruggedness issues dismounted soldier applications and electromagnetic launchers Fast charging of batteries in electrified vehicles Cybersecurity issues in electrified vehicles Hybrid Electric Vehicles Principles and Applications with Practical Perspectives is an essential up to date reference on the subject for engineers working in the automotive industry including at automakers vehicle OEMs and component suppliers as well as students and instructors in upper level undergraduate or graduate courses related to HEVs and electric propulsion

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