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## AUCERAMIC TCKWP331A

# AUCERAMIC TCKWP331A Engine Timing Belt Kit with Water Pump Instruction Manual

Brand: AUCERAMIC | Model: TCKWP331A

### Introduction

This manual provides essential information for the installation and maintenance of the AUCERAMIC TCKWP331A Engine Timing Belt Kit with Water Pump. This kit is designed to ensure precise engine timing and efficient cooling system operation for compatible Volvo vehicles. Proper installation and adherence to maintenance guidelines are crucial for optimal engine performance and longevity.

### Product Overview and Components

The AUCERAMIC TCKWP331A kit includes all necessary components for a complete timing belt and water pump replacement. Each part is manufactured to meet original equipment (OE) standards for durability and performance.



**Figure 1:** Complete AUCERAMIC TCKWP331A Engine Timing Belt Kit. This image displays all components included in the kit: timing belt, water pump with gasket, timing belt tensioner, timing belt idler roller, camshaft seals, crankshaft seal, and mounting bolts.

### Kit Contents:

- **1 Timing Belt:** (142 teeth) - Ensures precise synchronization of engine components.
- **1 Water Pump with Gasket:** Facilitates coolant circulation to maintain optimal engine temperature.
- **1 Timing Belt Tensioner:** Maintains correct tension on the timing belt to prevent slippage.
- **1 Timing Belt Idler Roller:** Guides the timing belt and reduces vibration.
- **4 Camshaft Seals:** Prevents oil leakage from the camshafts.
- **1 Crankshaft Seal:** Prevents oil leakage from the crankshaft.
- **7 Bolts:** For secure installation of components.

## Compatibility and Fitment

This AUCERAMIC TCKWP331A Engine Timing Belt Kit with Water Pump is compatible with specific Volvo models and engine configurations. Please verify your vehicle's year, make, model, and engine type against the list below to ensure proper fitment.

### Compatible Vehicles:

- **2003-2007 VOLVO XC70 2.5T**
- **2003-2006 VOLVO XC90 2.5T**
- **2004-2006 VOLVO S80**
- **2004-2009 VOLVO S60**
- **2006-2013 VOLVO C30 L5 2.5T**
- **2006-2013 VOLVO C70 2.5L**
- **2004-2010 VOLVO S40**
- **2005-2011 VOLVO V50**
- **2001-2007 VOLVO V70**

**Note:** For V70 (2001-2007), XC70/XC90 (2003-2007), S60/S80 (2004-2009) engines up to serial number 3188689. For S40 (2004-2010), V50 (2005-2011), C30/C70 (2006-2013) engines up to serial number 3887615.

| COMPATIBILITY | | | | |
|---|---|---|---|---|
| YEAR | MAKE | MODEL | ENGINE | NOTE |
| 2007-2013 | VOLVO | C30 | L5 2.5L Turbo | Engine serial No.to 3887615 |
| 2006-2013 | VOLVO | C70 | 2.5L | Engine serial No.to 3887615 |
| 2004-2010 | VOLVO | S40 | 2.4L/2.5L | Engine serial No.to 3887615 |
| 2004-2009 | VOLVO | S60 | 2.3L/2.4L/2.5L | Engine serial No.from 3188689 |
| 2004-2006 | VOLVO | S80 | L5 2.5T | Engine serial No.from 3188689 |
| 2005-2011 | VOLVO | V50 | 2.4L/2.5L | Engine serial No.to 3887615 |
| 2001-2007 | VOLVO | V70 | 2.3L/2.4L/2.5L | Engine serial No.from 3188689 |
| 2003-2007 | VOLVO | XC70 | 2.5L | Engine serial No.from 3188689 |
| 2003-2006 | VOLVO | XC90 | 2.5L | Engine serial No.from 3188689 |

**Figure 2:** Detailed compatibility chart for AUCERAMIC TCKWP331A kit, showing applicable Volvo models, years, engine types, and specific engine serial number notes.

## Setup and Installation

Installation of the timing belt kit and water pump requires specialized tools and technical knowledge. It is highly recommended that installation be performed by a qualified automotive technician. Incorrect installation can lead to severe engine damage.

### Key Installation Considerations:

- **Water Pump and Gasket:** Ensure the mating surfaces are clean and free of old gasket material. Apply sealant as recommended by the vehicle manufacturer. The water pump is designed to resist rust, corrosion, and coolant scaling.
- **Timing Belt:** The 142-tooth timing belt is made from high-performance material to reduce cracking and extend

service life. Ensure proper alignment and tension during installation.

- **Tensioner and Idler Rollers:** These components maintain correct belt tension and guide the belt. Verify proper function and secure mounting.
- **Seals:** The camshaft and crankshaft seals prevent oil leaks. Install them carefully to avoid damage.




**Figure 3:** Water pump and gasket, highlighting materials that resist rust, corrosion, and coolant scaling. A 100% leakage test is performed on assembled water pumps.




**Figure 4:** Timing belt tensioner, designed to maintain correct belt tension, increase belt life, and improve efficiency.




**Figure 5:** Timing belt idler roller, ensuring perfect fit, high quality, and professional performance.




**Figure 6:** Four camshaft seals, one crankshaft seal, and seven bolts included in the kit for comprehensive replacement.

## Official Product Videos:

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**Video 1:** Timing Belt Water Pump Kit for Volvo by AUCERAMIC. This video provides a visual overview of the timing belt and water pump kit components and their general function within a Volvo engine.

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**Video 2:** SCITOO Timing Belt Kit. This video demonstrates the components of a timing belt kit, including the water pump, timing belt, tensioner, and idler bearings, and their role in engine operation.

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**Video 3:** Timing Belt Kit & Water Pump for TCKWP329. This video showcases the components of a timing belt and water pump kit, illustrating their design and function in an engine system.

## Operating Principles

Once correctly installed, the timing belt kit and water pump work in conjunction to ensure the smooth and efficient operation of your vehicle's engine. The timing belt synchronizes the rotation of the crankshaft and camshafts, which in turn controls the opening and closing of the engine's valves. The water pump circulates coolant throughout the engine to dissipate heat and prevent overheating.

- **Precise Timing:** The timing belt maintains the critical synchronization required for the engine's combustion cycle.
- **Engine Cooling:** The water pump is vital for regulating engine temperature, preventing damage from excessive heat.

## Maintenance

Regular maintenance of your vehicle's timing belt and water pump is critical to prevent catastrophic engine failure. Consult your vehicle's owner's manual for specific service intervals. General recommendations suggest replacing the timing belt every 80,000 to 100,000 miles, or as specified by the manufacturer.

- **Inspection:** Periodically inspect the timing belt for cracks, fraying, or excessive wear. Check the water pump for leaks or unusual noises.
- **Coolant Replacement:** Ensure the cooling system is filled with the correct type and concentration of coolant.
- **Component Replacement:** When replacing the timing belt, it is highly recommended to replace the water pump, tensioner, idler rollers, and seals simultaneously, as these components wear together and a failure in one can affect the others.

## Troubleshooting

If you experience issues after installation or during the lifespan of the components, consider the following common troubleshooting points:

- **Gasket Leaks:** Ensure all gaskets and seals are properly seated and tightened to the manufacturer's specifications. Inspect for any wrinkles or damage to the gasket during installation, as this can lead to leaks.
- **Tensioner Fitment:** Verify that the tensioner is the correct part for your specific engine model and year. Incorrect tensioners can lead to improper belt tension and premature wear.
- **Unusual Noises:** Any whining, grinding, or squealing noises from the timing belt area or water pump could indicate improper installation, component failure, or incorrect belt tension.
- **Overheating:** If the engine overheats, check the water pump for proper function, ensure adequate coolant levels, and inspect for air pockets in the cooling system.

## Specifications

| Feature | Detail |
|---|---|
| **Brand** | AUCERAMIC |
| **Model Number** | TCKWP331A |
| **Material** | Steel and Rubber |
| **OEM Part Numbers** | TCKWP331A, 19298727, WPK41110C, KP35509XS, 1465/5380043, 30751700, 271985, 272476, 30637955, 8627484, 9146376, 8630590, 9146377 |
| **Item Weight** | 4.4 pounds |

| | |
|---|---|
| **Product Dimensions** | 7.87 x 6.1 x 5.12 inches |
| **Special Features** | Durable to use, OE standard |

## Support and Warranty

AUCERAMIC is committed to providing high-quality products and excellent customer service. If you have any questions regarding the installation, compatibility, or performance of your TCKWP331A kit, please contact our customer service team.
For assistance, please refer to the contact information provided with your product packaging or visit the official AUCERAMIC store on Amazon.

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