

A-Premium APTCK129

A-Premium Engine Timing Chain Kit APTCK129 Installation and Maintenance Manual

Model: APTCK129

1. INTRODUCTION

This manual provides comprehensive information regarding the A-Premium Engine Timing Chain Kit, Model APTCK129. This kit is designed to replace original equipment components in compatible vehicles, ensuring proper engine timing and operation. Understanding the components and proper installation procedures is crucial for the longevity and performance of your vehicle's engine.

2. PRODUCT OVERVIEW AND KIT CONTENTS

The A-Premium Engine Timing Chain Kit includes all necessary components for a complete timing system replacement. Each part is manufactured to meet OEM specifications, ensuring high transmission power, reliability, anti-friction properties, stable performance, and compact construction.



Guide Rail

Strict hardness and crushing tests
ensure precise structure and reliable performance.



Figure 2.1: Included Kit Parts Overview

Kit Components:

- 2x Timing Chain
- 1x Timing Crankshaft Sprocket
- 2x Timing Chain Tensioner
- 2x Timing Chain Guide
- 2x Chain Guide
- 1x Oil Pump Crankshaft Sprocket
- 1x Oil Pump Chain
- 1x Oil Pump Sprocket
- 1x Oil Pump Chain Tensioner
- 1x Oil Pump Chain Guide

COMPONENT INTRODUCTION

Our products are precise replacements that can be installed directly on your vehicle.



Figure 2.2: Component Introduction

3. VEHICLE FITMENT

This A-Premium Engine Timing Chain Kit is compatible with DOHC, 6-cylinder, 2.7L and 3.0L engines in the following vehicle models:

- **Ford Edge:** 2015-2017
- **Ford F-150:** 2015-2017
- **Ford Fusion:** 2017
- **Lincoln Continental:** 2017
- **Lincoln MKX:** 2016-2017
- **Lincoln MKZ:** 2017

4. FEATURES AND BENEFITS

The A-Premium timing chain kit is engineered for optimal performance and durability, offering several key advantages:

- **High Transmission Power:** Designed for efficient power transfer within the engine.
- **Reliability:** Manufactured to OEM specifications for consistent and dependable operation.
- **Anti-friction:** Components are designed to minimize friction, reducing wear and tear.
- **Stable Performance:** Ensures smooth and proper engine function.
- **Compact Construction:** Optimized design for efficient fitment.
- **No Gear Jumping:** Precision engineering prevents timing discrepancies.
- **Low Noise:** Contributes to quieter engine operation.
- **High Wear Resistance:** Constructed from durable materials for extended lifespan.



Figure 4.1: Product Features

Component Specific Advantages:

- **Tensioner:** Automatically adjusts tension for consistent, safe, and reliable operation.
- **Timing Chain:** Made of high-quality alloy steel for durability.
- **Sprocket:** Precision machined according to engineering drawings.

Features of the Product



Figure 4.2: Timing Chain Tensioners

Sprocket

- 1 Precise Transmission
- 2 Good Shock Resistance
- 3 High Plasticity and Toughness



Figure 4.3: Timing Chains

Tensioner

Automatically adjust tension to make it stay the same, safe and reliable.

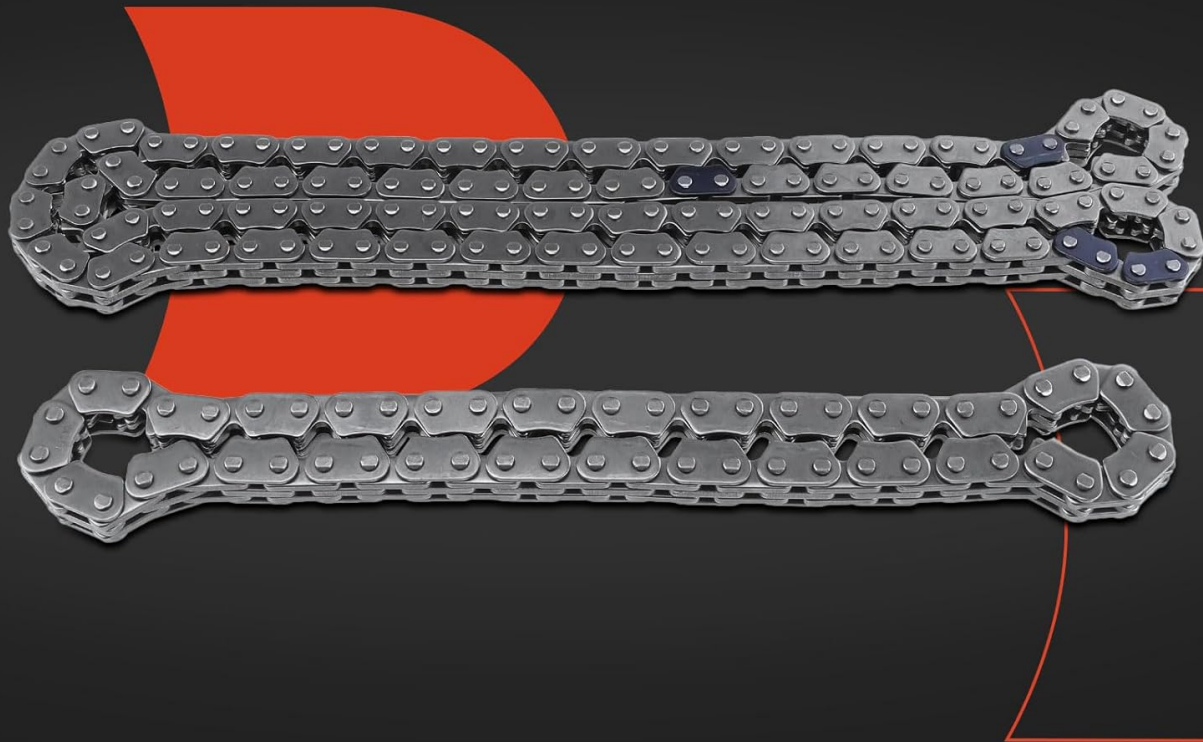


Figure 4.4: Sprockets

Timing Chain

With Alloy Steel Materials

(50CrVa + Pin Shaft 38CrMoAL+Sleeve 20CRMnMo)



1 High Hardness

2 Wear Resistance

3 Corrosion Resistance

Figure 4.5: Guide Rails

5. SPECIFICATIONS

Specification	Detail
Brand	A-Premium
Manufacturer	PremiumpartsWhosale
Model Number	APTCK129
Item Weight	5.13 pounds
Package Dimensions	13.07 x 9.72 x 2.2 inches

OEM Part Numbers	3-1062S, 31062S, TS14134, FT4Z6268A, FT4Z6306B, FT4Z6L266A, FT4Z6L266B, FT4E6K255AA, FT4E6B274BB, FT4Z6306A, FT4Z6A895A, FT4E6652AA, FT4E6C271AA, FT4E6M256AB, 1062, 1063, S1243, BT7025, BT7026, BT7024, BT7023, BG7026, BG7027, BG7028, S1242, S1244
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6. SETUP AND INSTALLATION

Attention: Installation of an engine timing chain kit is a complex procedure that requires specialized tools, knowledge, and experience. Improper installation can lead to severe engine damage.

Please use the appropriate shop manual for your specific vehicle to obtain detailed, step-by-step instructions. If you do not have an installation manual or possess sufficient skills to install this part, it is strongly recommended that you seek assistance from a qualified and certified mechanic.

Your browser does not support the video tag.

Video 6.1: A-Premium Engine Timing Chain Kit Overview. This video provides a visual overview of the timing chain kit components and their function within an engine. It is not an installation guide.

7. OPERATING PRINCIPLES

The timing chain is a critical component in an internal combustion engine. Its primary function is to synchronize the rotation of the crankshaft and camshaft(s). This synchronization ensures that the engine's valves open and close at the correct times relative to the piston's position, allowing for proper air intake, compression, combustion, and exhaust cycles. A properly functioning timing chain system is essential for the engine's efficiency, power output, and smooth operation.



Figure 7.1: Timing Chain Transmission

8. MAINTENANCE

While the timing chain kit itself is designed for long-term durability, regular engine maintenance is crucial to ensure its optimal performance and lifespan. This includes:

- **Regular Oil Changes:** Use the manufacturer-recommended engine oil and adhere to the specified change intervals. Clean engine oil is vital for lubricating the timing chain and its components, preventing premature wear.
- **Check Engine Light:** Pay attention to any warning lights on your dashboard. A check engine light could indicate issues that might affect engine timing.
- **Listen for Unusual Noises:** Rattling or ticking noises from the engine, especially during startup, could indicate wear in the timing chain or tensioners.
- **Professional Inspections:** Have your vehicle regularly inspected by a qualified mechanic, especially if it has high mileage or exhibits any unusual symptoms.

9. TROUBLESHOOTING

If you experience any issues related to engine timing or performance after installation, consider the following general troubleshooting steps. However, due to the complexity of engine timing systems, professional diagnosis is always recommended.

- **Engine Noise:** If you hear rattling or ticking, especially at startup or idle, it could indicate low oil pressure affecting the tensioners, or worn timing chain components.
- **Engine Misfires or Rough Idling:** Incorrect engine timing can lead to misfires, reduced power, and rough idling.
- **Check Engine Light:** Diagnostic Trouble Codes (DTCs) related to camshaft or crankshaft position sensors often point to timing system issues.
- **Reduced Fuel Economy:** An engine with incorrect timing will operate inefficiently, leading to decreased fuel mileage.

If any of these symptoms occur, consult a qualified mechanic immediately. Attempting to diagnose or repair complex engine issues without proper training and tools can cause further damage.

10. WARRANTY

A-Premium offers a one-year unlimited-mileage guarantee on this meticulously crafted engine timing chain kit. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

11. SUPPORT

For further assistance, technical inquiries, or warranty claims, please refer to the contact information provided with your purchase or visit the official A-Premium website. When contacting support, please have your product model number (APTCK129) and purchase details readily available.