

4

YEAR
WARRANTY

60,000mile /
100,000km



TIMING CHAIN KITS

DESIGNED FOR DURABILITY, BUILT WITH PRECISION



IT'S ALL IN THE TIMING

Over the past 25 years, timing chain systems have emerged as the preferred choice for synchronising modern internal combustion engines. This shift has been driven by the pursuit of enhanced engine performance, reduce weight, and lower emissions.

Original Equipment manufacturers often regard timing chains as "fit for life" components - designed to last the lifetime of the engine - unlike timing belts, which require mandatory replacement at scheduled service intervals to maintain engine reliability.

However, the aftermarket tells a different story. The rising demand for Timing Chain Kits over the last 15 years highlights recurring issues. Some engines have experienced timing chain failures as early as 30,000 miles (48,000 km), with many drivers reporting increased engine noise and dashboard warnings from engine management systems.

This growing need for replacement kits underscores the importance of reliable aftermarket solutions to keep engines running smoothly.



RAISING THE BAR ON RELIABILITY

Timing Chain Kits have become a staple product for motor factors, with many garages building expertise in their installation over the past 15 years. However, issues such as poor-quality components, causing premature failures, or challenging operating conditions have led to avoidable warranty claims for some.

While a few brands have dominated the aftermarket, Motaquip is proud to introduce a new premium-quality engine component programme to the market. Backed by a class-leading **4-year / 100,000 km (60,000 miles) parts and labour warranty**, Motaquip's offering is engineered to deliver lasting performance and peace of mind.

323 Timing Chain Kits in range	13 Timing Covers in range	11,000+ Model coverage	56 Vehicle manufacturers	80%+ European vehicle parc coverage
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TIMING YOU CAN TRUST

With over 300 SKUs, this range delivers extensive coverage across today's vehicle parc. Customers can choose between basic or full kits, depending on their needs and budget. Full kits include all essential components - gaskets, stretch bolts, seals, and more - for a complete and confident TCK installation.

This range has been meticulously developed by Motaquip's newly established Engine Parts Division, led by senior specialists with over 40 years of combined experience in the engine components sector. Their deep industry knowledge and technical expertise have shaped a premium-quality product line, purpose-built for the demands of the modern aftermarket.



SCAN HERE TO VIEW OUR FULL RANGE

COMPONENT ANALYSIS

WHAT'S INSIDE COUNTS

Every Motaquip Timing Chain Kit is built around quality. Each component is manufactured to precise specifications by our trusted tier-one manufacturing partners, ensuring high performance at a competitive aftermarket price. As standard, all kits include the core components required for effective timing system replacement.



To meet varying customer needs, Motaquip offers two kit options. This customer-focused approach ensures flexibility without compromising on quality:

- A basic kit for cost-conscious repairs
- A complete kit featuring all necessary gaskets, stretch bolts, seals, and more for a full installation

BASIC

Guide Rails / RTV Sealant / Pre-lube / Tensioner / Washer/Spacer / Timing Chain

FULL

Timing Chain / Guide Rails / RTV Sealant / Pre-Lube / Tensioner / Washer or Spacer / Oil Seal / Sprocket / Drive Hub / Profile Gasket / Nut / Oil Spray Pipe / Timing Cover Gasket / Tensioner Bracket / Gear / Rocker Gasket / Sump Gasket / Banjo Bolt / Misc Gasket / Camshaft Carrier / Crankshaft Sprocket / Bolt(s) / Sleeve

FULL VVT

Variable Valve Timing Hub (VVT)

VVT SPROCKET

The Variable Valve Timing (VVT) sprocket dynamically adjusts camshaft timing in response to engine load and speed. By modifying the timing of valve opening and closing, it helps optimise engine performance, improve fuel economy, and reduce harmful emissions.

GUIDES

Timing chain guides ensure the chain stays properly aligned, reducing friction and wear during operation. By maintaining the correct path, they help preserve accurate timing - critical for engine efficiency, performance, and long-term reliability.

TENSIONER

The tensioner keeps the timing chain properly tensioned, preventing slack and reducing vibration. This ensures smooth operation, minimises wear, and maintains precise valve timing for optimal engine performance.

SPROCKET

The sprocket connects the timing chain to the camshaft or crankshaft, transferring rotational motion to keep engine components in sync. This ensures smooth, coordinated operation essential for performance and reliability.

TIMING CHAIN

The timing chain transfers motion from the crankshaft to the camshaft, ensuring synchronised rotation. This coordination is key to accurate valve and piston timing, driving efficient and reliable engine performance.

SUPPLIED AS STANDARD

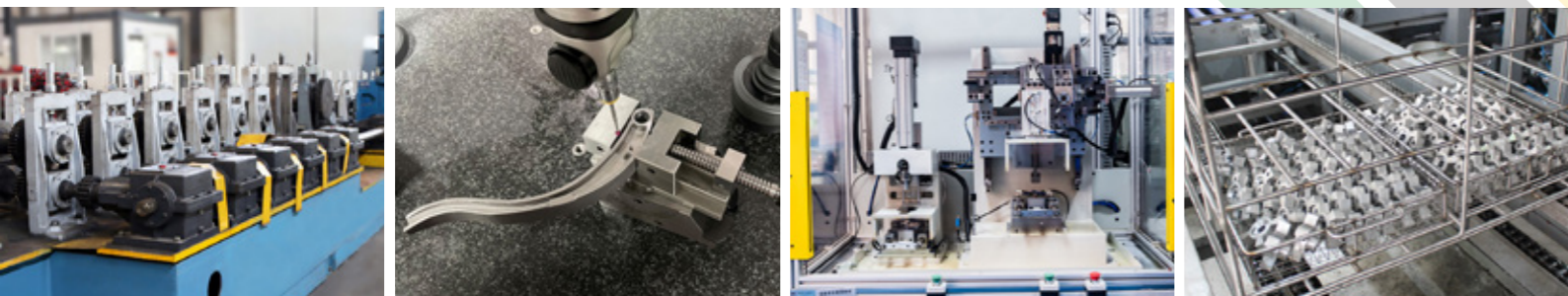
Each Motaquip Timing Chain Kit comes with a 120ml tube of high-viscosity Pre-Lube oil, specially formulated for final-stage application. Coating the chain before start-up creates a protective film that reduces friction, prevents early wear, and ensures smooth operation from the first rotation.

DRIVEN BY QUALITY

Synchronising the internal combustion engine is a critical process governed by the timing system - whether it uses gears, a timing belt, or a timing chain. The performance and longevity of the engine depend heavily on the quality of materials and production methods used. That's why Motaquip insists on premium-grade materials across all mass production.

MANUFACTURING

Every Motaquip component in a Motaquip kit is manufactured by carefully selected factory partners, each specialising in the production of specific key parts. Because each component type requires specialised equipment and expertise to consistently achieve tier-one quality, Motaquip works exclusively with specialists that meet these high standards.



CHAIN

Motaquip chains are made with premium materials and precision tooling for a superior finish. Unlike typical aftermarket chains, our pins are staked using a full 360° press, ensuring even support - rather than just overlapping at two points.



TECHNICAL DATA

Where possible, Motaquip tensioners feature laser-marked torque settings to save installers time searching for technical data. This is unique to the Motaquip range. Each component is also marked for full traceability.



Close up shows heat treated 'staked' pins and brand marking.



INTRODUCING NEW OXICOAT® TECHNOLOGY

Motaquip chains are manufactured in tier-one OE facilities using our exclusive OXICOAT® material, delivering exceptional wear resistance and durability even in harsh conditions. This commitment to quality supports our market-leading 4-year / 100,000 km warranty.



KEY FEATURES

- Resists premature wear in hostile environments
- Protects chain pins during periods of low lubrication
- Shields against oil contaminants like metal particles, fuel, detergents, dirt, and oxidation

4
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PREVENTATIVE CARE PROTECTS PERFORMANCE

When replacing a kit, it is essential to thoroughly clean the engine components and oil system as part of the installation process. Failure to do so may compromise the integrity of the installation and could void any applicable warranty.

Motaquip recommends allocating a minimum of 2 to 4 hours for cleaning, depending on the complexity of the installation. Key components that must be cleaned include:

- Oil pump and pick-up pipe
- Sump pan
- Timing cover
- Any other parts showing signs of oil sludge build-up

Additionally, all traces of silicone RTV and any foreign objects must be removed. Any internal engine areas made accessible during the installation should also be cleaned thoroughly.



PREMIER
TecDoc®
DATA SUPPLIER

Visit the eCatalogue at motaquip.com where you can find the correct grade of oil for the vehicle. Filter part numbers can also be found on our eCatalogue.

INSTALLATION & MAINTENANCE GUIDELINES

The following information provides general guidance on the installation and maintenance of Timing Chain Kits. For optimal results, Motaquip strongly recommends referring to any specific installation instructions included with each part number.

PREPARATION		If possible, flush the engine before stripping to remove contaminants.
		Identify and address the root cause of component failure - common issues include wear and tear, oil contamination, poor maintenance, or other worn parts.
ASSEMBLY		Apply lubricant to all moving components during assembly to prevent wear at initial start-up.
		Fit all gaskets and profile seals dry. Do not use RTV silicone, as it can compromise sealing performance and void the warranty.
		PTFE seals must be installed dry and left for at least 4 hours to form a hydrodynamic seal. Conventional rubber seals may be lightly oiled to reduce friction at start-up.
		After fitting the timing chain kit, rotate the engine manually 6 - 8 times to ensure proper alignment and allow hydraulic tensioners to begin filling with oil. Before first start-up, crank the engine without ignition until the oil warning light turns off - this confirms oil pressure and tensioner activation.
ONGOING MAINTENANCE		Always use the OEM-recommended oil grade. Incorrect oil can lead to engine failure and void the warranty.
		Motaquip recommends changing oil and filters every 10,000 km (6,000 miles) to maintain lubrication system efficiency.
		Investigate any metallic particles found in the oil. Non-ferrous particles may indicate bearing wear; ferrous particles could come from timing chains, camshafts, followers, or the oil pump.

TIMING CHAIN COVERS

Engines equipped with pressed steel timing chain covers are vulnerable to damage during removal. This is primarily due to the force required to break the seal formed by silicone RTV during previous cover installation. The leverage applied can deform or damage the cover, often necessitating its replacement.

Using low-quality replacement covers can lead to oil leaks, installation difficulties, and even engine failure. To ensure a successful and reliable installation, it is essential that the timing chain cover is manufactured from high-grade steel and produced with precision tooling. This guarantees the flatness of the mating surface and accurate alignment of rotary seals and gaskets, helping to avoid costly rework and maintain engine integrity.



WARRANTY & PRODUCT SUPPORT

All timing chain kits are supported by a 4 year 100,000Km / 60,000 mile parts & labour warranty. Should you need to submit a warranty, all the parts from the kit must be returned along with full supporting paperwork showing vehicle history and any costs being claimed along with a 120ml oil sample from the failed engine. Motaquip will endeavour to close the claim within 20 working days.

- Market-leading 4-year / 100,000km warranty
- Motaquip technical support

Should you require any technical support do not hesitate to contact the technical line: UK +44 (0)1582 578 888 Ext. 605, España (EU) +34 916 84 60 44

REDUCING RISK, ENHANCING EFFICIENCY

Where feasible, physical gaskets have been developed to replace traditional RTV sealant. This offers two key benefits to the installer:

1. **Eliminates RTV Usage** – Overapplication of RTV can lead to contamination of the engine or lubrication system, potentially resulting in engine failure.
2. **Prevents Cover Damage** – Physical gaskets allow for easier removal of the timing cover during future repairs, reducing the risk of deformation and lowering long-term repair costs.



Powder coating is used to prevent corrosion of the steel during operating lifetime.

MOTATIP💡

When installing a new timing cover, always ensure that mating surfaces are clean. If RTV is used, apply it sparingly and precisely. Refer to the manufacturer's technical data to ensure correct torque settings for all fixing bolts.



SUPERIOR DATA

A key part of our go-to-market strategy is providing a portfolio of high-quality product data. This ensures that trade customers can quickly and accurately identify the correct Timing Chain Kit for their needs.

Our data is available on platforms such as MAM Autocat+ and TecDoc, where we are proud to be recognised as a Premier Data Supplier, supporting efficient and confident product selection.

PREMIER TecDoc® DATA SUPPLIER



SCAN FOR ECATALOGUE



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