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> maXpeedingrods TT82 Timing Chain Riveting Tool Kit Instruction Manual

## maXpeedingrods TT82

# maXpeedingrods TT82 Timing Chain Riveting Tool Kit Instruction Manual

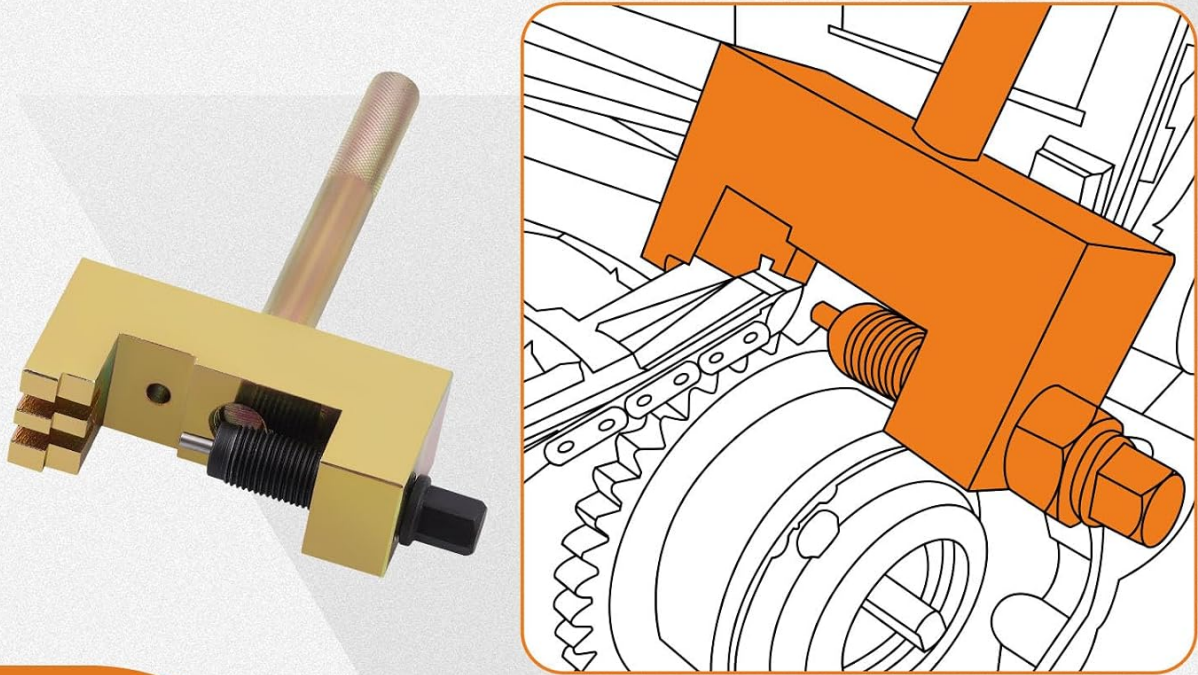
Model: TT82

## 1. PRODUCT OVERVIEW

This maXpeedingrods TT82 Timing Chain Riveting Tool Kit is designed for the precise separation, easy pulling, and accurate riveting of timing chains. It is suitable for both simplex timing chains with 3mm and 4mm pins, and duplex timing chains. This kit facilitates efficient maintenance and replacement of timing chains in various compatible engines.

# Kit d'outils pour chaînes de distribution

Ce jeu d'outils est utilisé pour le renouvellement et la réparation des chaînes de distribution. Le kit spécial permet une séparation propre, un tirage facile et un rivetage précis des chaînes de distribution.



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Image 1.1: Illustration of the timing chain tool kit and its function in chain separation and riveting.

## 2. SAFETY INFORMATION

Always observe the following safety precautions when using this tool kit:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is stable and properly supported before beginning any work.
- Read and understand all instructions before operating the tools.
- Use the correct tool for the specific task. Do not force tools.
- Keep the work area clean and well-lit.
- Store tools properly in their case when not in use to prevent damage and loss.
- If unsure about any procedure, consult a qualified mechanic or service manual.

## 3. PACKAGE CONTENTS

The maXpeedingrods TT82 Timing Chain Riveting Tool Kit includes the following components, neatly organized in a

durable plastic case:

# Boîtier en plastique pour outils

Ce jeu d'outils est fourni avec un boîtier en plastique résistant et léger, garantissant un stockage sécurisé et une portabilité facile. Il est ainsi idéal pour une utilisation en atelier comme sur le terrain.

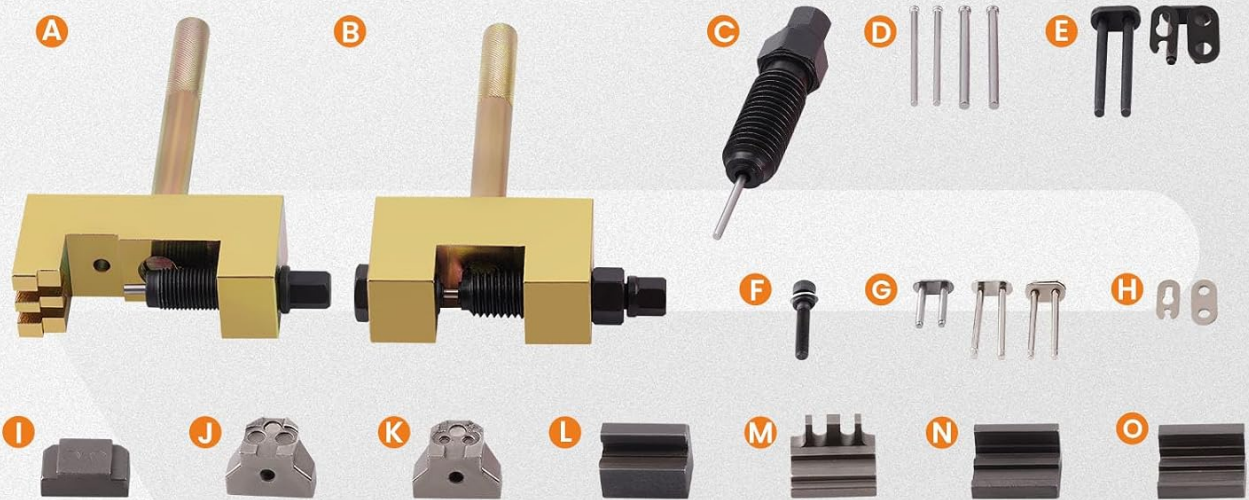


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Image 3.1: All components of the TT82 kit laid out for identification.

# Contenu du pack



Item Part	Description
<b>A</b>	3+4mm Chain Separator Tool
<b>B</b>	3+4mm Chain Riveter Tool
<b>C</b>	4mm Separation and Pilot Bolt
<b>D</b>	4×Link Removal Pin
<b>E</b>	Temporary Assembly Link
<b>F</b>	Securing Bolt
<b>G</b>	Temporary Thread Link

Item Part	Description
<b>H</b>	Outer Plates
<b>I</b>	3+4 mm Assembly Thrust Piece
<b>J</b>	4mm Riveting Thrust Piece
<b>K</b>	3mm Riveting Thrust Piece
<b>L</b>	4mm Riveting Simplex Guide Rail
<b>M</b>	3+4 mm Assembly Guide Rail
<b>N</b>	3mm Riveting Duplex Guide Rail
<b>O</b>	4mm Riveting Duplex Guide Rail

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Image 3.2: Detailed view of individual components with corresponding labels.

Table 3.1: Component List

Item Part	Description
A	3+4mm Chain Separator Tool
B	3+4mm Chain Riveter Tool
C	4mm Separation and Pilot Bolt
D	4x Link Removal Pin
E	Temporary Assembly Link
F	Securing Bolt
G	Temporary Thread Link
H	Outer Plates

Item Part	Description
I	3+4mm Assembly Thrust Piece
J	4mm Riveting Thrust Piece
K	3mm Riveting Thrust Piece
L	4mm Riveting Simplex Guide Rail
M	3+4mm Assembly Guide Rail
N	3mm Riveting Duplex Guide Rail
O	4mm Riveting Duplex Guide Rail

#### 4. COMPATIBILITY AND APPLICATIONS

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This tool kit is designed for use with a wide range of Mercedes-Benz, BMW, SAAB, Chrysler, and Jeep engines. It is suitable for almost all gasoline and diesel engines equipped with a timing chain.

# Compatibilité

Pour Mercedes Benz 615, 616, 617, M102, 103, 116, 207 1.7D, 2.1D, 2.2D, 2.7D, 3.0D, 3.2D, 3.9D et 4.0D moteurs diesel CDI, ainsi que pour BMW, Saab, Chrysler – y compris Jeep 2.2D, 2.7D et 3.0D CRD diesel.



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Image 4.1: Visual representation of vehicle compatibility.

Specific applications include:

- **Mercedes-Benz:** Engines 615, 616, 617, M102, M103, 116, 272, and others.
- **Chrysler and Jeep:** Diesel CDI engines 1.7, 2.1, 2.2, 2.7, 3.0, 3.2, 3.9, and 4.0 liters. CRD engines 2.2, 2.7, and 3.0 liters.

The kit is compatible with the following engine codes:

- **1.4:** 166.94
- **1.5:** 266.920
- **1.6:** 166.960
- **1.7:** 266.940
- **1.7D CDI:** 668.940, 668.941, 668.942
- **1.9:** 166.990
- **2.0:** 266.960, 266.980
- **2.1D CDI:** 646.811, 646.812, 646.820, 646.821, 626.951, 626.961, 626.962, 626.963, 626.966

- **2.2 CDi / CRD:** 611.960, 611.961, 611.962
- **2.4:** 112.910, 112.911
- **2.6:** 112.912, 112.913, 112.914, 112.915, 112.916
- **2.7D CDi / CRD:** 612.961, 612.962, 612.965, 612.967, 647.961
- **2.8:** 112.920, 112.921, 112.922, 112.923
- **3.0D CDi/ CRD:** 642.830, 642.832, 642.834, 642.836, 642.850, 642.852, 642.853, 642.854, 642.856, 642.858, 642.862, 642.868, 642.886, 642.910, 642.920, 642.921, 642.922, 642.930, 642.642
- **3.2D CDi:** 613.960, 613.961, 648.960, 648.961
- **3.2:** 112.940, 112.942, 112.943, 112.944, 112.946, 112.947, 112.951, 112.953, 112.955
- **2.9D CDi:** 628 960, 628 961
- **4.0D CDi:** 628.962, 629.910, 629.911
- **4.3:** 113.940, 113.941, 113.942, 113.943, 113.948
- **5.0:** 113.960, 113.961, 113.963, 113.964, 113.965, 113.966, 113.967, 113.968, 113.969, 113.971

## 5. OEM CROSS-REFERENCE

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This tool kit replaces or is equivalent to the following OEM part numbers:

# Remplace les pièces OEM

602589003900, 602589023300, 103589016300, 602589056300,  
602589056301, 602589046300, 602589046301,  
112589096300, 602589024000 et 602589026300



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Image 5.1: OEM part numbers for reference.

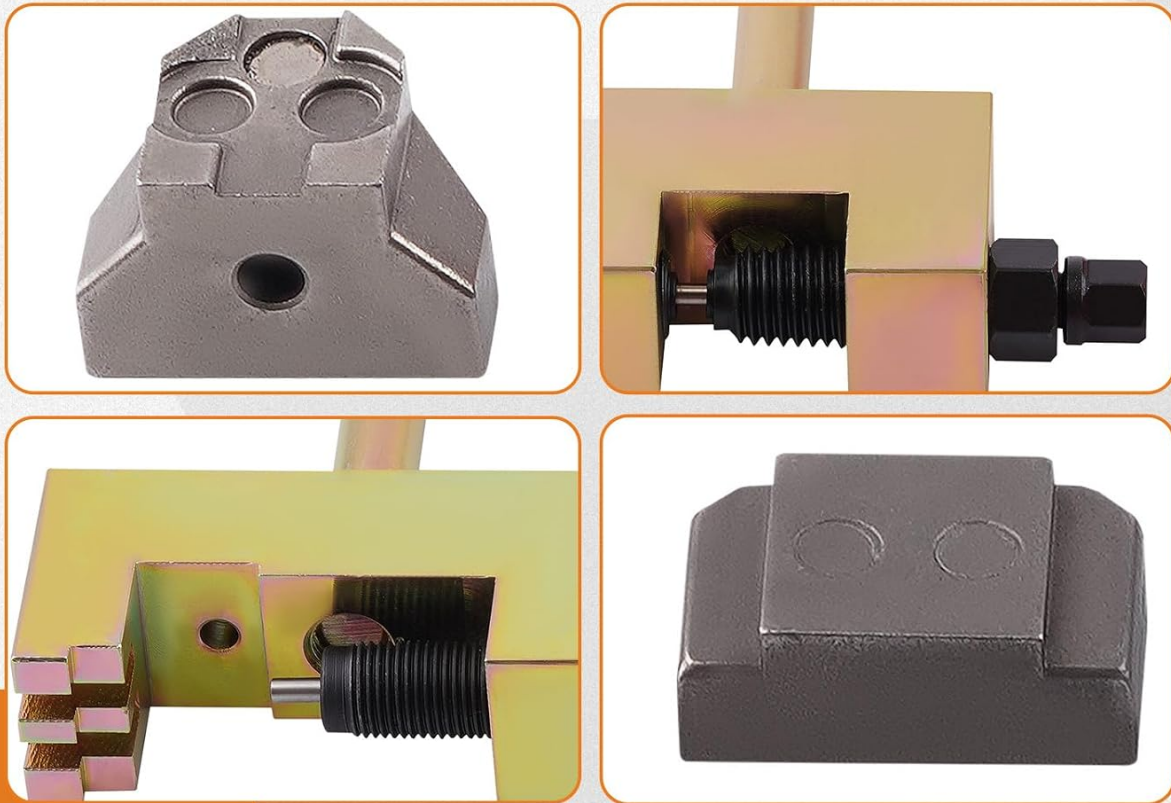
- 602589003900
- 602589023300
- 103589016300
- 602589056300
- 602589056301
- 602589046300
- 602589046301
- 112589096300
- 602589024000
- 602589026300

## 6. PRODUCT FEATURES

The maXpeedingrods TT82 kit is engineered for professional use, featuring precision machining and high-quality

# Détails du produit

Outil industriel professionnel avec usinage de précision, filetage lisse et haute qualité. Conçu pour le pressage des œillets extérieurs et rivets des attaches de type Dip pour chaînes à rouleaux Simplex et Duplex.



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Image 6.1: Detailed views of the tool components.

- **Precision Design:** Allows for clean separation, easy pulling, and precise riveting of timing chains.
- **Versatility:** Compatible with both simplex and duplex timing chains, utilizing 3mm and 4mm pins.
- **Durable Construction:** Made from robust materials for industrial professional use, ensuring smooth threading and high quality.
- **Comprehensive Kit:** Includes specialized tools for cutting and riveting, along with various adapters and thrust pieces for different chain types.

## 7. SETUP AND PREPARATION

Before using the timing chain tool kit, ensure the engine is at Top Dead Center (TDC) on the compression stroke for cylinder 1, and that all necessary safety precautions are in place.

1. Identify the timing chain to be serviced.
2. Select the appropriate chain separator tool (Item A) and riveting tool (Item B) based on the chain type (simplex

or duplex) and pin size (3mm or 4mm).

3. Gather the necessary pins, thrust pieces, and guide rails (Items C-O) for the specific operation.
4. Ensure all components are clean and free from debris.

## 8. OPERATING INSTRUCTIONS

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### 8.1. Timing Chain Separation

To separate an existing timing chain:

1. Position the chain separator tool (Item A) over the chain link to be separated.
2. Insert the appropriate link removal pin (Item D) into the tool, aligning it with the chain pin.
3. Slowly turn the external hexagonal drive (13mm) of the separator tool to push out the chain pin. Apply steady pressure.
4. Once the pin is removed, the chain link can be separated.

### 8.2. Timing Chain Riveting

To rivet a new or repaired timing chain:

1. Assemble the new chain link or master link onto the chain ends.
2. Select the correct riveting tool (Item B) and the appropriate riveting thrust piece (Item J or K) and guide rail (Item L, M, or N) for your chain type and pin size.
3. Place the riveting tool over the new chain link, ensuring the thrust piece and guide rail are correctly positioned to support the chain and align with the pins.
4. Slowly turn the external hexagonal drive (13mm) of the riveting tool to press and rivet the chain pins. Ensure the riveting process creates a secure and flush connection.
5. Visually inspect the riveted link to confirm proper installation and security. The riveted pin heads should be slightly flared to prevent detachment.

## 9. MAINTENANCE AND STORAGE

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Proper maintenance and storage will extend the life of your tool kit:

- After each use, clean all tool components to remove oil, grease, and debris.
- Apply a light coat of rust-preventative oil to metal parts before storage.
- Store the tools in their original plastic case (Image 9.1) in a dry, clean environment to protect them from moisture and damage.
- Regularly inspect tools for wear or damage. Replace any worn or damaged components immediately.



Image 9.1: The tool kit stored in its protective plastic case.

## 10. TROUBLESHOOTING

If you encounter issues while using the tool kit, consider the following:

- **Tool not separating chain:** Ensure the correct pin size is used and the tool is properly aligned. Check for excessive wear on the removal pin.
- **Riveting not secure:** Verify that the correct thrust piece and guide rail are used for the chain type. Ensure sufficient pressure is applied during riveting. Inspect the new chain link for defects.
- **Difficulty turning tool:** Ensure threads are clean and lubricated. Do not overtighten or force the tool.

- **Damaged components:** Discontinue use immediately and replace any damaged parts.

## 11. SPECIFICATIONS

**Table 11.1: Product Specifications**

Feature	Detail
Brand	maXpeedingrods
Model Number	TT82
Item Weight	3.1 Kilograms
Product Dimensions (L x W x H)	30 x 24 x 10 cm
OEM Part Numbers	602589003900, 602589023300, 103589016300, 602589056300, 602589056301, 602589046300, 602589046301, 112589096300, 602589024000, 602589026300
Chain Compatibility	Simplex and Duplex timing chains with 3mm and 4mm pins

## 12. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the maXpeedingrods official website or contact their customer service directly. Keep your purchase receipt as proof of purchase.