Eldon

Eldon Tool and Engineering Limited

# Manufacturers of **Specialist Automotive Tools**

Catalogue 2009/10

www.eldontool.co.uk

## Eldon Tool & Engineering Ltd

Eldon, a highly skilled engineering company, is a leading source for automotive aftermarket service tools.

With accreditation to ISO 9001 quality standards, a complete service covering design and development to the bulk manufacture is available.

The engineering division includes a comprehensive range of manufacturing equipment with automatic CNC lathes and machine centres capable of sub-spindle, cross drilling and milling up to 65mm bar diameter. Sliding head autos with a capacity ranging from 1.6 to 32mm are magazine bar fed and capable of 'lights out' production runs. CNC machines with four axis capacity cover 510 x 762 x 435mm Welding and fabrication service gives additional scope to this production facility.

Eldon offers innovative high quality automotive service tools to the world market with ability to offer specialised sets of Engine Valve Timing Tools for both petrol and diesel powered engines, cambelt, chain or gear driven. With additional market leading success in Brake, Engine, Suspension and Bodyshop Service requirements a wealth of experience is available to assist the distribution network.

Tailored set content, bespoke packaging and multi-lingual instruction including extensive application data are among the host of in-house services offered.

Illustrated in this new catalogue is a selection of tool/tool sets ranging from unique application to comprehensive.

A range of tools which continues to grow. We have grouped certain car manufacturers together, especially when inter-manufacturing homology has been adopted. We have the right to change, modify, implement improvements and will advise of these developments in advance of implementation.

MADE IN SHEFFIELD

## Eldon Tool & Engineering Ltd

Eldon, ein hochqualifiziertes Technikunternehmen, ist ein führender Anbieter von Servicewerkzeugen für den Automotive Aftermarket. Ein kompletter Service mit Konstruktion und Entwicklung sowie Massenfertigung steht zur Verfügung. Das Qualitätsprogramm ist nach ISO 9001 zertifiziert.

Der technischen Abteilung steht eine umfassende Reihe von Fertigungsausrüstung zur Verfügung, so z.B. automatische CNC-Drehbänke und Maschinenzentren mit Gegenspindeln zum Querbohren und Fräsen von Stangenmaterial bis 65 mm Durchmesser. Langdrehautomaten mit einer Kapazität von 1,6 bis 32 mm haben eine Magazin-Stangenzuführung und sind für mannlosen Betrieb geeignet. 4-Achs-CNC-Maschinen decken einen Größenbereich von 510 x 762 x 435 mm ab. Schweiß- und Bearbeitungsfähigkeiten erweitern das Dienstleistungsspektrum dieses Werks.

Eldon bietet innovative Qualitätswerkzeuge für Kfz-Werkstätten auf der ganzen Welt und kann auch spezielle Sätze Steuerzeitwerkzeuge für Benzin- und Dieselmotoren mit zahnriemen-, ketten- oder zahnradangetriebenen Nockenwellen anbieten. Außerdem kann das Unternehmen auf marktführende Erfolge auf den Gebieten der Bremsen-, Motor-, Radaufhängungs- und Karosseriereparatur verweisen, wodurch das Vertriebsnetz noch weiter unterstützt werden kann.

Zu der Vielfalt der angebotenen Zusatzdienstleistungen gehören die Zusammenstellung maßgeschneiderter Werkzeugsätze, kundenspezifische Verpackungen und mehrsprachige Anleitungen, einschließlich umfangreicher Anwendungsdaten.

Dieser Katalog enthält Abbildungen einer Auswahl neuer Werkzeuge/ Werkzeugsätze für Spezialanwendungen bis hin zu Universalanwendungen. Ein Werkzeugprogramm, das weiter wächst. Wir haben bestimmte Fahrzeughersteller zu Gruppen zusammengestellt, insbesondere wenn baugleiche Aggregate verwendet werden. Wir behalten uns Änderungen, Modifikationen und Verbesserungen vor und werden auf solche Entwicklungen vor der Einführung hinweisen.

## Eldon Tool & Engineering Ltd

Eldon, azienda di ingegneria altamente qualificata, è una fonte importante per l'utensileria destinata all'aftermarket del settore automobilistico. Con l'accreditamento agli standard di qualità ISO 9001, offre un servizio completo che copre il design e lo sviluppo per la fabbricazione in blocco.

La divisione di progettazione annovera un'ampia gamma di apparecchiature di costruzione con torni automatici con controllo numerico computerizzato e center machining in grado di fissare su assi o alberini secondari, forare trasversalmente e fresare barre con un diametro fino a 65 mm. Le macchine a testa scorrevole con capacità che vanno da 1,6 a 32 mm sono alimentate con barre accumulatrici e sono capaci di occuparsi di cicli di produzione completamente automatizzati. Le macchine a controllo numerico computerizzato con capacità su quattro assi coprono 510 x 762 x 435 mm. Il servizio di saldatura e fabbricazione conferisce un ulteriore elemento distintivo a questo impianto di produzione.

Eldon offre al mercato internazionale utensili d'alta qualità per la manutenzione nel settore automobilistico mettendo altresì a disposizione set speciali di utensili per la messa a registro di motori a benzina e diesel, con cinghia di distribuzione, a catena o a ingranaggi. Con il notevole successo di mercato ottenuto nell'ambito dei requisiti relativi all'assistenza tecnica per freni, motori, sospensioni e officine Eldon mette a disposizione il proprio ampio patrimonio di esperienza e conoscenza per la rete di distribuzione.

Tra i servizi interni offerti spiccano: personalizzazione del contenuto dei set, creazione su misura degli imballaggi e produzione delle istruzioni in più lingue inclusi i dati completi per le applicazioni.

In questo nuovo catalogo viene presentata una selezione di utensili/set di utensili con applicazione unica o generale. Una gamma di strumenti che continua a crescere. Abbiamo riunito alcuni produttori di automobili, in particolare laddove è stata adottata un'omologia tra fabbricazioni. Ci riserviamo il diritto di fare dei cambiamenti, delle modifiche, attuare migliorie e segnaleremo tali sviluppi prima dell'attuazione.

## Eldon Tool & Engineering Ltd

Eldon, société technique d'une grande compétence, est un leader pour les outils d'entretien et les pièces de rechange automobiles. Avec une certification qualité ISO 9001, elle offre un service complet couvrant la conception et le développement, ainsi que la fabrication.

La division technique comprend une gamme complète d'équipements de fabrication, comprenant des tours automatiques CNC (commande numérique) et des machines-outils capables de forer, percer et fraiser des barres de diamètre 65 mm. Des têtes coulissantes d'une capacité comprise entre 1,6 et 32 mm peuvent usiner des barres alimentées à partir d'un magasin, et peuvent effectuer des cycles courts de production. Les machines CNC (commande numérique) à quatre axes couvrent des dimensions de 510 x 762 x 435 mm. Ce centre de production est complété par des services de soudage et d'usinage.

Eldon propose des outils innovants et de grande qualité pour l'entretien des automobiles sur le marché mondial, et peut offrir des outils spéciaux de calage de soupape de moteur, qu'il s'agisse de moteurs à essence ou de moteurs diesel, de réglage de courroie de came, de chaîne ou de pignon. La société peut aussi proposer des outils pour les freins, le moteur, la suspension et la carrosserie, et une expérience très complète est disponible pour assiste le réseau de distribution.

Les outils et les équipements sont adaptés à l'application, l'emballage est personnalisé, et il est accompagné de manuels d'instruction en plusieurs langues comprenant des données détaillées sur l'application, ceci n'étant que l'un des nombreux services proposés.

Ce nouveau catalogue illustré concerne des outils et ensembles d'outils pour une seule application ou pour de nombreuses applications. La gamme des outils ne cesse de croître. Nous avons regroupé certains constructeurs automobiles, en particulier lorsque ceux-ci avaient adopté les mêmes normes entre eux. Nous avons le droit de changer, modifier, et mettre en œuvre des améliorations, et nous vous aviserons de ces développements avant leur réalisation.

## Eldon Tool & Engineering Ltd

Eldon, una empresa de ingeniería altamente cualificada, es una fuente líder de herramientas de servicio posventa para automoción. Con acreditación de normas de calidad ISO 9001, está disponible un servicio completo que cubre desde el diseño y el desarrollo hasta la fabricación a granel.

La división de ingeniería incluye una amplia gama de equipos de fabricación con tornos de CNC y máquinas de centrado capaces de realizar subhusillos, taladrados cruzados y fresados hasta 65 mm de diámetro de barra. Cabezales deslizantes automáticos, con una capacidad que va de 1,6 mm a 32 mm, son alimentados por barras en cargadores y son capaces de 'automatizar' tirajes de producción. Máquinas de CNC de cuatro ejes con capacidad para cubrir 510 x 762 x 435 mm. El servicio de soldadura y fabricación proporciona un ámbito adicional a esta instalación de producción.

Eldon ofrece herramientas de servicio para automoción de alta calidad para el mercado mundial con capacidad para ofrecer juegos especializados de Herramientas de sincronización de válvulas de motores para motores tanto de gasolina como de diesel, accionados por correa de leva, por cadena o por engranajes. Con un éxito puntero adicional en el mercado en frenos, motores, suspensiones y servicios de chapa y pintura, está disponible una gran cantidad de experiencia para apoyar a la red de distribución.

Contenido de juegos a medida, embalaje diseñado a propósito e instrucciones multilingüe, que incluyen extensos datos de aplicación, son algunos de los numerosos servicios internos que se ofrecen.

En este nuevo catálogo se ilustra una selección de herramientas / juegos de herramientas que van desde una aplicación exclusiva hasta una aplicación amplia. Una gama de herramientas que continúa creciendo. Hemos agrupado a un cierto número de fabricantes, especialmente cuando se ha adoptado una homologación entre fabricaciones. Tenemos el derecho de cambiar, modificar e implantar mejoras y avisaremos sobre estos desarrollos antes de la implementación.

## Eldon Tool & Engineering Ltd

Eldon is een zeer gespecialiseerd engineeringbedrijf en een toonaangevende producent van servicetools voor de nazorgmarkt in de automobielsector. De onderneming voldoet aan de kwaliteitsnormen van ISO 9001 en biedt een totale service, van ontwerp en ontwikkeling tot grootschalige productie.

De engineeringafdeling bestaat uit een alomvattend assortiment productieapparatuur met automatische CNC-draaibanken en machines geschikt voor subspindle, cross-drilling en frezen tot een stangdiameter van 65 mm. Automatische glijkoppen met een capaciteit van 1,6 tot 32 mm worden door een opsteekkam gevoed en kunnen zonder toezicht functioneren. CNC-machines met vier assen, geschikt voor 510 x 762 x 435 mm. Deze productievoorziening biedt ook las- en fabricagediensten.

Eldon levert wereldwijd innovatieve servicetools van uitstekende kwaliteit voor de automobielindustrie. Eldon levert gespecialiseerde toolsets voor motorkleptiming voor motoren op benzine en diesel, met nokkenas-, ketting- of tandwielaandrijving. Dankzij de toonaangevende service die wordt verleend op het gebied van remmen, motoren, ophanging en carrosserie, beschikt Eldon over de benodigde ervaring om het distributienetwerk van dienst te zijn.

Aangepaste werktuigsets, op maat gemaakte verpakking en meertalige instructies, inclusief uitgebreide applicatiegegevens zijn slechts enkele van de interne diensten die worden geboden.

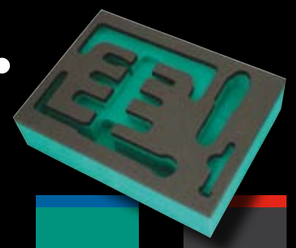
In deze nieuwe catalogus ziet u illustraties van werktuigen en werktuigsets, voor specifieke en algemene toepassingen. Wij breiden ons assortiment werktuigen voortdurend uit. We hebben bepaalde autofabrikanten gegroepeerd, vooral als ze de productie op elkaar hebben afgestemd. Wij behouden ons het recht voor om de werktuigen te wijzigen, aan te passen en verbeteringen aan te brengen en zullen over deze wijzigingen informeren, voordat ze worden uitgevoerd.

## PACKAGING

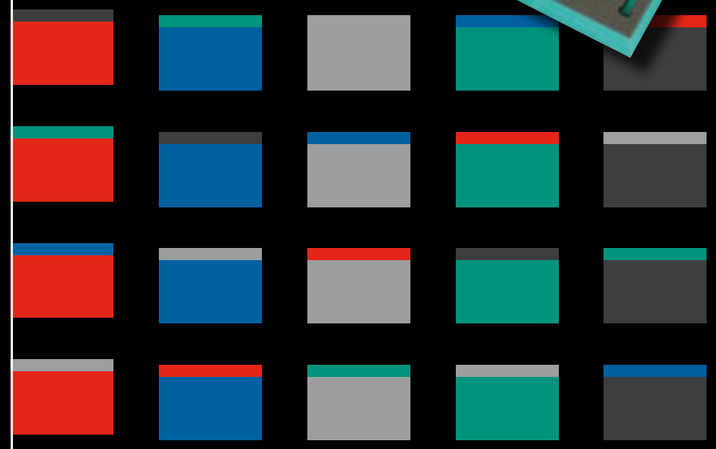
Other colours may be available on request!

### Metal Tin

| Stock Code | Size | Red | Black Gloss | Black Textured | Green | Blue RAL5015 | Blue RAL 5010 |
|---|---|---|---|---|---|---|---|
| 21005 | 205x163x50 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 23076 | 185x137x48 | | | ✔ | | | |
| 23161 | 185x275x48 | ✔ | ✔ | | ✔ | ✔ | ✔ |
| 23075 | 185x275x48 | | | ✔ | | | |
| 21000 | 185x410x48 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 23080 | 392x308x45 | ✔ | | | | | ✔ |
| 23080 | 392x308x47 | | ✔ | | ✔ | ✔ | |
| 23058 | 370x410x48 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 23600 | 360x275x80 | ✔ | | | ✔ | ✔ | ✔ |
| 23061 | 185x410x48 | | ✔ | ✔ | | | |



### Foam inserts



205x163x45, 185x137x45, 185x275x45, 185x275x45, 185x410x45, 392x308x45, 392x308x45, 370x410x45, 360x275x45, 310x410x45

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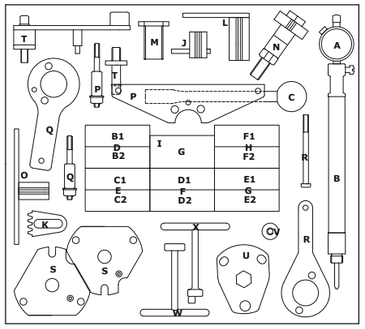
## 23111 MASTER KIT

**Engine Timing Tool Set – Alfa Romeo, Fiat and Lancia**

This comprehensive engine timing tool set includes 24 tools for camshaft alignment, tensioning, and crankshaft alignment to cover most petrol and diesel engines including:

**Petrol** – 1.4/1.6/1.8/2.0 Twinspark 1.2/1.4/1.6/1.8 16v

**Diesel** – 1.6/1.8/1.9D/TD/2.0, 2.1 12v, 2.4



| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | | Dial Test Indicator | 23072 |
| B | 1 895 443 000 | Adaptor – TDC Indicator | 23107-B |
| C | 1 860 443 000 | Tensioning Tool - Pry | 23107 |
| D | 1 825 041 000 | Camshaft Alignment Tool (2) | 23110-B |
| E | 1 825 042 000 | Camshaft Alignment Tool (2) | 23110-C |
| F | 1 860 847 000 | Camshaft Alignment Tool (2) | 23110-D |
| G | 1 860 875 000 | Camshaft Alignment Tool (2) | 23110-E |
| H | 1 860 892 000 | Camshaft Alignment Tool (2) | 23110-F |
| I | 1 860 899 000 | Camshaft Alignment Tool (1) | 23110-G |
| J | 1 860 703 000 | Flywheel Locking Tool | 23111-01 |
| K | 1 860 161 000 | Flywheel Locking Tool | 23111-02 |
| L | 1 860 766 000 | Flywheel Locking Tool | 23111-03 |
| M | 1 860 771 000 | Flywheel Locking Tool | 23111-04 |
| N | 1 860 846 000 | Flywheel Locking Tool | 23111-05 |
| O | 1 860 898 000 | Flywheel Locking Tool | 23111-06 |
| P | 1 860 901 000 | Crankshaft Timing Tool | 23111-07 |
| Q | 1 860 905 000 | Crankshaft Timing Tool | 23111-08 |
| R | 1 860 933 000 | Crankshaft Timing Tool | 23111-09 |
| S | 1 860 874 000 | Camshaft Alignment Tool (2) | 23112 |
| T | 1 860 876 000 | Tensioning Tool | 23113 |
| U/V | 1 860 932 000 | Camshaft Alignment Tool (2) | 23114-01/04 |
| W | 1 822 154 000 | Balancer Shaft Belt Tensioning Tool | 23169-01 |
| X | 1 860 845 000 | Tensioning Tool | 23169-02 |

## 23110 SERIES

| ID | OEM Ref | Description | Application | Part |
|---|---|---|---|---|
| A | 1 825 040 000 | Camshaft Alignment Tool (4) | 156 2.5 V6 (97-) | 23110-A |
| B | 1 825 041 000 | Camshaft Alignment Tool (2) | 145/146 1.8, 2.0 Twin Spark (96-), Spider/GTV 2.0 16v (95-) | 23110-B |
| C | 1 825 042 000 | Camshaft Alignment Tool (2) | 145/146 1.4, 1.6 Twin Spark (96-), 155/156 Twin Spark (96-) | 23110-C |
| D | 1 860 847 000 | Camshaft Alignment Tool (2) | Barchetta, Coupe 1.8 16v (96-) | 23110-D |
| E | 1 860 875 000 | Camshaft Alignment Tool (2) | Brava, Bravo, Marea, Marea Weekend 1.8 16v (95-) | 23110-E |
| F | 1 860 892 000 | Camshaft Alignment Tool (2) | Bravo, Marea, Marea Weekend, Coupe 2.0 20v (94-) | 23110-F |
| G | 1 860 899 000 | Camshaft Alignment Tool (1) | Brava, Bravo 1.4 12v (95-) Lancia Ypsilon 1.4 12v (96-99) | 23110-G |
| H | 1 860 819 000 | Camshaft Alignment Tool (2) | Lancia Kappa 2.0 2.4 20v (94-97) | 23110-H |
| J | 1 870 828 000 | Camshaft Alignment Tool (2) | Stilo 2.4 20v (01-) | 23110-H |
| K | 1 860 962 000 | Camshaft Alignment Tool (2) | Bravo, Marea, Marea Weekend, Coupe 2.0 20v (94-) | 23110-J |
| L | 1 870 797 000 | Camshaft Locking Tools (2) | 147 1.6 (105bhp) (04-) | 23110-K |
| M | 1 870 734 000 | Camshaft Locking Tools (2) | 147 1.6 (120bhp) (04-) | 23110-M |
| N | 1 870 859 000 | Camshaft Locking Tools (2) | 156 2.0 JTS (06-) NEW | 23110-N |



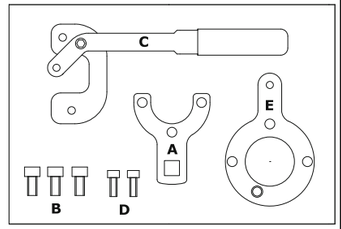
## 23220 NEW

**Engine Service Tool Set – Fiat 1.3 JTD**

This set of essential tools is for use on Fiat 1.3 JTD Multi-Jet 16v diesel engines and includes crankshaft pulley flange holding wrench, timing chain tensioner and crankshaft timing position tool necessary to conduct engine timing during engine service.

For use on models: Punto, Panda, Idea, Doblo and Doblo Cargo.

Supplementary to engine timing tool Set 23174. See page 39.




MULTI-USE

See Ford

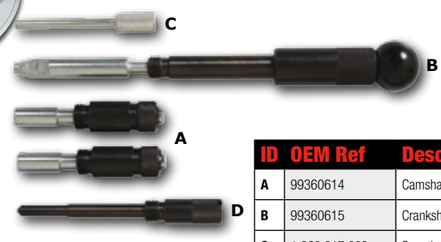
| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A/B | 1 871 000 200 | Cranshaft Pulley Flange Holding Tool | 23223 |
| C/D | 1 870 900 300 | Timing Chain Tensioning Tool | 23222 |
| E | 1 870 900 400 | Crankshaft Timing Position Tool | 23221 |

## 23100 NEW

**Engine Timing Tool Set – Fiat 2.3/3.0 JTD**

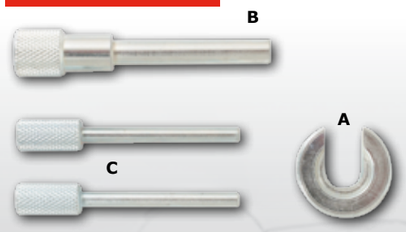
This tool set is designed for use on engines currently used in Ducato models (02-) with engine codes F1 AE0481C, F1 AE0481D and F1AE0481N, F1CE0481A&D

Also used on Iveco Daily.




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 99360614 | Camshaft Timing Pin (2) | 23100-01 |
| B | 99360615 | Crankshaft Timing Pin | 23100-02 |
| C | 1 860 617 000 | Sprocket Aligning Pin | 23069-04 |
| D | 2 000 018 200 | Crankshaft Timing Pin | 23057 |

## 23061-80

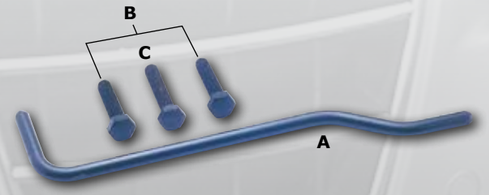



**Engine Timing Tool Kit – Fiat 2.5/2.8 D**

A set of tools to suit the following applications: Fiat/Iveco Ducato, Daily, Turbo Daily.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 638 000 | Tensioning Tool | 23101 |
| B | 0178D | Camshaft Locking Pin (2) | 23069-23 |
| C | MOT1054 | TDC Timing Pin | 23069-04 |

## 23061-10




**Timing Tool Kit**

For use on Fiat Ulysee/Scudo/Ducato 1.9D/TD (94-02) with engine codes D8B, D9B, DHX, DJY

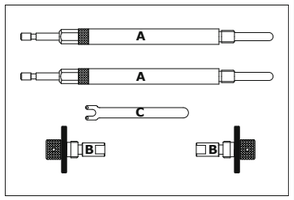
| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 863 000 | Flywheel Timing Pin | 23061-02 |
| B | | M8 x 35mm Setscrew (2) | 23061-03 |
| C | | M8 x 40mm Setscrew | 23061-04 |

## 23171

**Timing Tool Set – Fiat 1.2 16v**

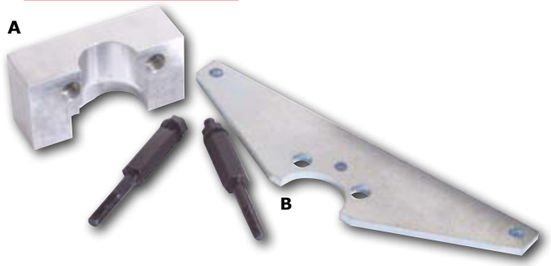
Suitable for engine timing on Fiat models including Stilo.

Also available in modular packaging No. **23171-PK**




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 992 000 | Piston Height Gauge (2) | 23171-01 |
| B | 1 860 985 000 | Camshaft Setting Tool (2) | 23171-02 |
| C | 1 860 987 000 | Tension Tool | 23171-07 |

## 23157




**Engine Timing Tool Set – Fiat 1.4 12v/Lancia 1.4 12V**

For use on Fiat 1.4 12v engines as used on Bravo, Brava and Lancia Ypsilon models (95-) with engine codes 182 A3000, 182 A5000.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 899 000 | Camshaft Locking Tool | 23110-G |
| B | 1 860 901 000 | Crankshaft Timing Tool Studs | 23111-07 |

## 23114-10

**Engine Timing Tool Set – Fiat 1.7D/TD**

To enable the camshaft and crankshaft position to be fixed during timing belt replacement on Fiat 1.7D diesel engines as used on Punto models.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 932 000 | Camshaft Locking Plate | 23114-01 |
| B | 1 860 933 000 | Crankshaft Timing Tool | 23111-09 |

## 23114-20

**Engine Timing Tool Set – Fiat 1.9D**

To enable the camshaft and crankshaft position to be fixed during timing belt replacement on Fiat 1.9D diesel engines as used on Tipo, Tempra and Ducato models.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 934 000 | Camshaft Locking Plate | 23114-02 |
| B | 1 860 933 000 | Crankshaft Timing Tool | 23111-09 |



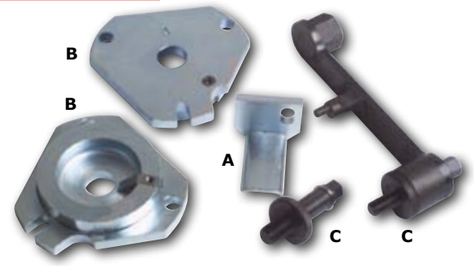
## 23114-30

**Engine Timing Tool Set – Fiat 1.9TD**

To enable the camshaft and crankshaft position to be fixed during timing belt replacement on Fiat 1.9TD diesel engines as used on Tipo, Tempra and Ducato models.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 931 000 | Camshaft Locking Plate | 23114-03 |
| B | 1 860 933 000 | Crankshaft Timing Tool | 23111-09 |

## 23156



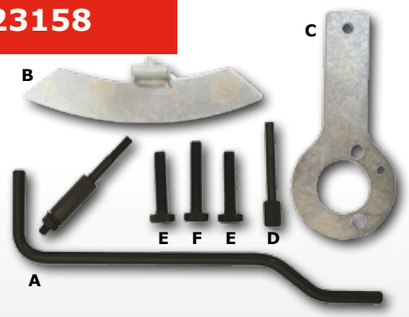

**Engine Timing Tool Set – Fiat 1.6 16v**

For use on Fiat 1.6 16v twin cam engines on Brava, Bravo, Marea, Marea weekend, Multipla and Palio models (95-)

Tensioning Tool (23113) includes the facility to interchange the connecting screw from M8 to M10 as introduced on models from (00-)

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 23111-04 | Flywheel Locking Tool | 1 860 771 000 |
| B | 23112 | Camshaft Locking Tool Inlet and Exhaust (2) | 1 860 874 000 |
| C | 23113 | Tensioning Tool | 1 860 876 000 |

## 23158

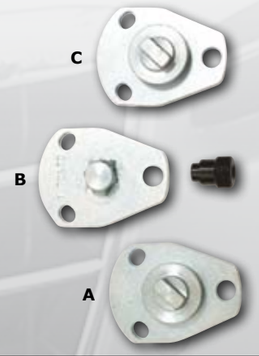



**Engine Timing Tool Set – Fiat 1.9D/TD**

For use on Fiat 1.9D/TD with Peugeot engines on Brava, Bravo, Marea and Marea Weekend models (96-)

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 23061-02 | Cranked Setting Pin 8mm | 1 860 863 000 |
| B | 23111-06 | Flywheel Locking Tool | 1 860 88 000 |
| C | 23111-08 | Crankshaft Timing Tool | 1 860 905 000/010 |
| D | 23069-07 | Timing Pump Locking Pin | 1 860 965 000 |
| E | 23061-03 | M8 x 35mm Locking Screw | |
| F | 23061-04 | M8 x 40mm Locking Screw | |

## 23114




**Camshaft Locking Tool Set – Fiat**

To enable the camshaft position to be fixed during timing belt replacement on Fiat 1.7D/TD, 1.9D and 1.9TD diesel engines used on Punto, Tipo, Tempra and Ducato models.

Supplied with common fixing nut.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 932 000 | Camshaft Locking Tools | 23114-01 |
| B | 1 860 934 000 | Camshaft Locking Tools | 23114-02 |
| C | 1 860 931 000 | Camshaft Locking Tools | 23114-03 |

## 23109

**Tensioning Tool**

For Alfa Romeo 156 2.5 V6 (97-)

| OEM Ref | Description | Part |
|---|---|---|
| 1 860 950 000 | Tensioning Tool | 23109 |

## 23103

**Variator Socket – Alfa Romeo 16v**

This tool enables the safe removal/replacement of the camshaft variator.

| OEM Ref | Description | Part |
|---|---|---|
| 1 852 161 000 | Variator Socket | 23103 |

## 23106

**Sprocket Holding Wrench**

This is a multi-application wrench with variable adjustment.

Ideal for holding the sprocket whilst releasing and fastening the fastener which retains the sprocket.

| OEM Ref | Description | Part |
|---|---|---|
| 1 822 146 000<br>1 842 128 000<br>1 860 831 000 | Camshaft Sprocket Holding Tool | 23106 |

## 23107-A

**TDC Indicator**

An essential tool for measuring the cylinder position at TDC on multi-valve engines.

This Adaptor is for use with Dial Test Indicator 23072 (not included).



## 23107-B

**TDC Indicator**

An essential tool for measuring the cylinder position at TDC on multi-valve engines. This Adaptor is for use with Dial Test Indicator 23072 (not included).

For use on: Fiat Brava, Bravo 1.6/1.8 16v (95-)

Bravo, Marea, Marea Weekend, Coupe 2.0 20v and Turbo (94-)

## 23072

**Dial Test Indicator**

41mm diameter x 0.8mm x 0.01mm

A precision tool for finding TDC (Top Dead Centre) on petrol and diesel engines.

Also useful for checking run out on brake discs.

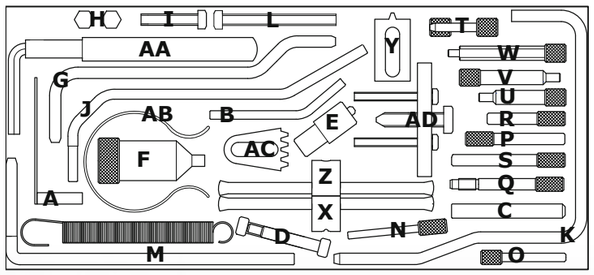
## 23061-00 MASTER KIT

**Engine Timing Tool Set – PSA**

The most comprehensive 36 piece compilation set of engine timing tools to suit PSA – Citroën, Peugeot car and van range of most petrol and diesel engines.

With many camshaft aligning tools, tensioning tools, crankshaft alignment tools and flywheel locking tools suitable for use on most petrol and diesel engines.

Available in modular packaging No. **23061-PK**




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 4507-TJ, 0132X, 0132X1Z, 9767.89 | Tensioning Tool 8mm Sq | 23053 |
| B | 0132Q, 5711-TA | Crankshaft Timing Pin 6mm | 23055-01 |
| C | 0132R, 4507-TB, 9767.27 | Crankshaft Timing Pin (2) | 23055-02 |
| D | 7014-TM | Crankshaft Timing Pin (2) | 23055-03 |
| E | 0132QZ, 4507-TA | Flywheel Locking Pin | 23055-05 |
| F | 0189-C | Flywheel Locking Pin | 23055-06 |
| G | 0153G, 0153Y, 0153N, 0188D | Crankshaft Timing Pin 8mm | 23061-02 |
| H/I | 7004-TG, 7014-TJ, 7017-TR, 9767.35 | Locking Setscrew M8 (3) | 23061-05 |
| J | 7017-TR | Crankshaft Timing Pin 7mm | 23061-06 |
| K | 0153N, 0188D, 0188Y, 0288D, 7099-TM | Crankshaft Timing Pin 8mm | 23061-07 |
| L | 0188X | Setscrew M8 x 70mm | 23061-09 |
| M | 0118X | Crankshaft Timing Pin | 23061-11 |
| N | 0132AB, 4527-TS2, 5711-TD, 0118X | Injection Pump Timing Pin (2) | 23069-04 |
| O | 0188-H | Crankshaft Timing Pin | 23069-07 |
| P | 0189-B | Crankshaft Timing Pin | 23069-25 |
| Q | 4527-T-S1 | Injection Pump Timing Pin | 23069-31 |
| R | 0132AJ1, 4533TAC1 | Crankshaft Timing Pin | 23069-32 |
| S | 0132AJ2, 0188M, 4533-TAC2 | Camshaft Timing Pin | 23069-33 |
| T | 5711-TC, 9041-TZ | Crankshaft Timing Pin (2) | 23069-34 |
| U | 0189-A | Crankshaft Timing Pin | 23069-36 |
| V | 0189AZ | Crankshaft Timing Pin | 23069-37 |
| W | 0189-L | Inlet Camshaft Timing Pin (VTC) | 23069-38 |
| X | 0178E, 0188J/J1, 5711-TE | Tensioner Adjuster | 23069-44 |
| Y | 0134AF, 0188F, 9044-T | Flywheel Locking Tool | 23069-46 |
| Z | 0188J2 | Tensioner Adjuster | 23069-49 |
| AA | 7017-TW | Tensioner Adjuster - 8mm Hex | 23069-51 |
| AB | 0132AK, 0153 AK, 0187j, 0188K, 0189K, 4533-TAD | Timing Belt Retaining Clip | 23069-53 |
| AC | D86, 0153A, 6012T, 9765-54, 9044 | Flywheel Locking Tool | 23111-02 |
| AD | 0188P/P2, 7015T | Crankshaft Pulley Remover | 23069-57 |

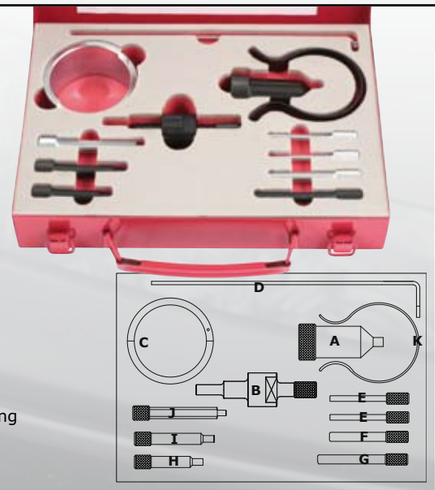
## 23061-70

**Engine Timing Tool Set Citroën/Peugeot (2nd Generation EW 16v petrol)**

This set of tools enables the correct engine timing to be made when replacing the timing belt.

Suitable for use on most popular cars with 2nd Generation EW 16v petrol engines.

Available in modular packaging No. **23061-70PK.**




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 0189-C | Flywheel Locking Pin | 23055-06 |
| B | 0189-R | Flywheel/Drive Plate Locking Pin | 23061-12 |
| C | 0189-S1 | Tensioner Adjusting Tool | 23061-14 |
| D | 0189-S2 | Tensioner Locking Too | 23061-15 |
| E | 0132-AB, 4527-TS2, 5711-TD | Camshaft Locking Pin 5mm (2) | 23069-04 |
| F | 0189-B | Crankshaft Timing Pin | 23069-25 |
| G | 0132.AJ2, 0188-M, 4533-TAC2 | Tensioner Setting Pin | 23069-33 |
| H | 0189-A | Camshaft Timing Pin | 23069-36 |
| I | 0189-AZ | Camshaft Timing Pin | 23069-37 |
| J | 0189-L | Inlet Camshaft Timing Pin (VTC) | 23069-38 |
| K | 0132.AK, 0153-AK, 0187-J, 0188-K, 4533-TAD | Timing Belt Retaining Clip | 23069-53 |



## 23055

**Petrol Engine Locking Tool Kit – Citroën, Peugeot**

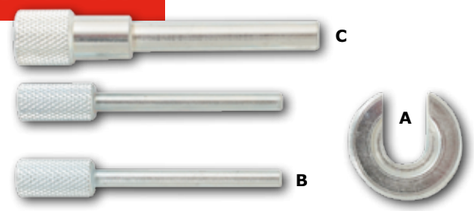
Specifically compiled for use on the popular petrol engines to enable the timing pulleys to be locked in place whilst servicing the camshaft or cam-belt replacement.

Part No. 23053 is used when tensioning the cam-belt and is used in conjunction with a 2kg weight.

Suitable for use on the following vehicles:
Citroën AX 1.0, 1.1, 1.4, BX 16, 19, BX 16 Valve
Peugeot 106, 205, 405: 1.0, 1.1 and 1.4, 205, 305, 309, 405: 1.6 and 1.9, 309 Gti, 405 Mi1.6

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 4507-TJ, 0132X, 0132X1Z, 9767.89 | Tensioning Tool 8mm Sq | 23053 |
| B | 0132Q, 5711-TA | Crankshaft Timing Pin 6mm | 23055-01 |
| C | 0132R, 4507-TB | Crankshaft Timing Pin (2) | 23055-02 |
| D | 7014-TM | Crankshaft Pin (2) | 23055-03 |

## 23061-80




A set of tools to suit the following applications: Jumper, Relay, Boxer.

MULTI-USE

See Fiat, Iveco, Renault

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 638 000 | Tensioning Tool | 23101 |
| B | 0178D | Camshaft Locking Pin (2) | 23069-04 |
| C | MOT1054, MOT863, MOT861 | TDC Timing Pin | 23069-23 |

## 23005

**Valve Spring Compressor – Citroën, Peugeot**

Essential when changing the timing belt to ensure that the valves are cleared away from contact with the camshaft before setting the tension.

For models Citroën Xsara Ax, Saxo 1.4/1.6, Berlingo 1.4 (94-) Peugeot 206 1.1/1.4/1.6 (98-)

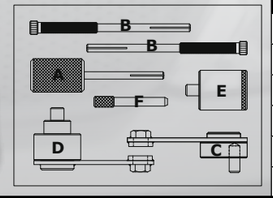
| OEM Ref | Description | Part |
|---|---|---|
| 4533-TZ | Valve Spring Compressor | 23005 |

## 23079

UPDATED

MULTI-USE

See Land Rover Jaguar



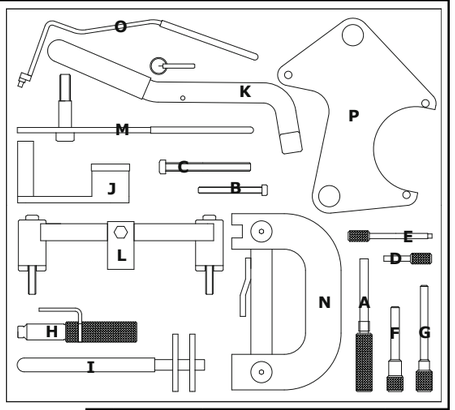

**Engine Timing Kit**

Engine Timing Kit – Peugeot/Citroën 2.7D engines on 407/607 Coupe (04-08) and Citroën C6 with engine codes DT17TED4 (UHZ)

Items E and F are updates to this kit and are available separately – Part No 23061-50

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 303-1132 | Camshaft Sprocket Alignment Tool | 23079-01 |
| B | 303-1126/0195H | Camshaft Sprocket alignment Pins (2) | 23061-21 |
| C | 303-1117 | Flywheel Locking Tool – Automatic Tensioner | 23079-03 |
| D | 303-1116 | Flywheel Locking Tool – Manual Tensioner | 23079-04 |
| E | 0195K | Flywheel Locking Tool | 23061-18 |
| F | 0195C | Coolant Pump Pulley Pin | 23061-19 |

## 23069-00 MASTER KIT




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | MOT1489 | Crankshaft Timing Pin | 23054-04 |
| B | | Locking Screw M6 x 30mm | 23061-08 |
| C | | Locking Screw M8 x 70mm | 23061-09 |
| D | MOT910 | Flywheel Locking Pin | 23069-21 |
| E | MOT910 | Injection Pump Setting Pin | 23069-22 |
| F | MOT861/863 | Flywheel Locking Pin | 23069-23 |
| G | MOT1318 | Flywheel Locking Pin | 23069-24 |
| H | MOT1340 | Flywheel Locking Pin | 23069-41 |
| I | MOT1135-01 | Tension Wrench | 23069-42 |
| J | MOT1386 | Tensioner Adjuster | 23069-43 |
| K | MOT1348 | Tensioner Adjuster | 23069-45 |
| L | MOT1337 | Camshaft Locking Tool | 23069-47 |
| M | MOT1312 | Tensioner Adjuster | 23069-48 |
| N | MOT1496 | Camshaft Locking Tool | 23069-52 |
| O | MOT1384 | Tensioner Adjuster | 23069-56 |
| P | MOT1490-01 | Camshaft Sprocket Alignment Tool | 23069-58 |

**Engine Timing Tool Set – Renault**

This comprehensive engine timing tool set includes sixteen important tools for camshaft alignment, tensioning, and crankshaft alignment to cover most petrol and diesel engines including:

**Petrol** – 1.2/1.4/1.7, 1.4/1.6/1.8/2.0 16v, 2.2 8v, 2.5 20v

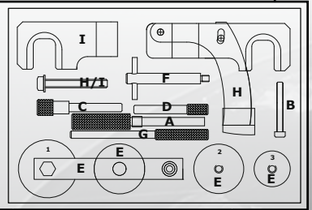
**Diesel** – 1.9 D/TD, 2.1/2.2 D/TD, 2.5 D/TD, 2.8 D

## 23173

**Timing Tool Set – Renault dci**

This set of tools enables the correct engine timing to be made when servicing the range of Renault dci diesel engines including Megane, Scenic, Espace, Master 1.5/1.9/2.2/2.5

Also available in modular packaging No. **23173-PK**



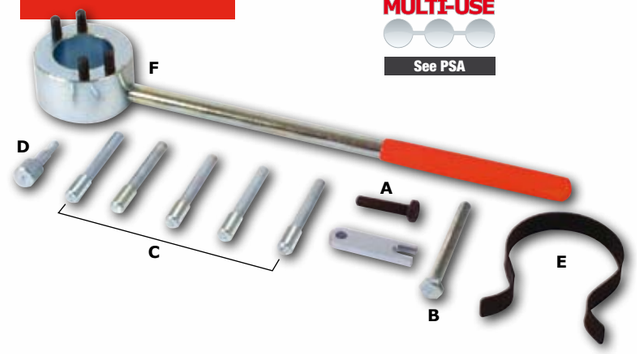

MULTI-USE

See Opel

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | MOT1489 | Crankshaft Timing Pin | 23054-04 |
| B | | Tensioning Screw M6 x 30mm | 23061-08 |
| C | MOT1054 | Flywheel Locking Pin | 23069-23 |
| D | MOT1430 | Camshaft Timing Pin | 23069-25 |
| E | MOT1543 | Tension Pre-Setting Tool | 23069-59 |
| F | MOT1538 | Hi-Pressure Fuel Pump Pulley Locking Pin | 23164-17 |
| G | MOT1536/KM6203 | Flywheel Setting Pin | 23164-18 |
| H | MOT1537/KM6204 | Camshaft Locking Tool - Exhaust | 23164-19 |
| I | MOT1534/KM6205 | Camshaft Locking Tool - Inlet | 23164-20 |



## 23069-60




MULTI-USE

See PSA

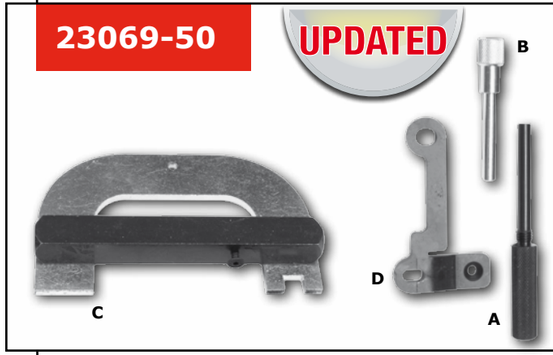
**Engine Timing Tool Set for 3.0 litre V6 24v engines**

This set of seven tools enables the correct engine timing to be performed on Renault Laguna, Safrane, Espace (L7X engine) when changing the timing belt.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | – | M8 x 35mm HT Setscrew | 23061-03 |
| B | – | M8 x 80mm HT Setscrew | 23061-09 |
| C | MOT1430 | Camshaft/Crankshaft Timing Pin (5) | 23069-25 |
| D | MOT1430-01 | Gauge Pin | 23069-26 |
| E | MOT1436 | Timing Belt Retaining Clip | 23069-53 |
| F | MOT1428 | Camshaft Pulley Holding Tool | 23069-54 |
| G | MOT1429 | Tensioning Fork | 23069-55 |

## 23069-50

UPDATED

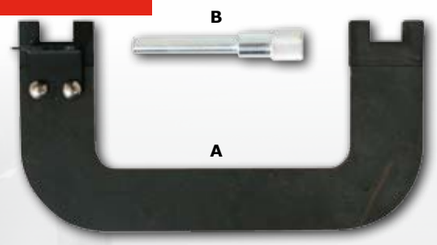



**Special Timing Tool Kit for Renault Twin Cam 16v**

This kit of four tools enables the correct engine timing to be performed on Renault K4J, K4M and F4P, F4R engines, when changing the timing belt. The set includes crankshaft timing pin, TDC timing pin and camshaft setting bar plus the new bracket specifically for the Clio III with K4M 813 engine from 2003 onwards.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | MOT 1489 | Crankshaft Timing Pin | 23054-04 |
| B | MOT 1054 | Crankshaft Timing Pin | 23069-23 |
| C | MOT 1496 | Camshaft Setting Bar | 23069-52 |
| D | MOT1750 | Mounting Bracket | 23069-52G |

## 23069-62



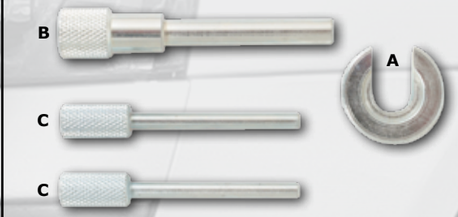

**Engine Timing Tool Kit – Renault**

Specifically designed for Renault Laguna/Megane 2.0 IDE with F5R engine

Manufactured between 1999-2005

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | MOT1526 | Mounting Bracket | 23069-61 |
| B | MOT 861 | TDC Timing Pin | 23069-23 |

## 23061-80




**Tension Tool Kit**

**Renault** Trafic/Master 2.5/2.8D

MULTI-USE

See PSA, Fiat and Opel

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 638 000 | Tensioning Tool | 23101 |
| B | MOT910 | Camshaft Locking Pin | 23069-23 |
| C | MOT1054 | TDC Timing Pin (2) | 23069-04 |

## 23069-59

**Timing Belt Pre-Tension Tool – Renault 1.9 dci**

For use on models Mégane, Laguna, Laguna II and Espace.

| OEM Ref | Description | Part |
|---|---|---|
| MOT1543 | Tension Pre-set Tool | 23069-59 |

## 23069-59H

NEW

**Cover No. 4 for Renault**

This new Cover (OEM Ref. MOT 1705) gives increased application to the Timing Belt Tensioning Tool 23069-59 to cover many models including Kangoo, Clio II, Mégane II, Scénic II, Laguna, Laguna II, Espace III, Espace IV, Avantime, Trafic II, Master II fitted mainly with engine codes F9Q and range X56, X64, X65, X66-J66, X66-J66/F9Q, X70, X74, X76, X81, X83 and X84.

Additional tool to 23069-59 and 23173

| OEM Ref | Description | Part |
|---|---|---|
| MOT1705 | Timing Belt Tensioning Cover | 23069-59H |

## 23069-40

**Timing Tool kit**

A Timing Tool kit for use on Renault Laguna/Safrane 2.0 16v (N7Q) and 2.5 20v (N7U)

MULTI-USE

See Volvo

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | MOT1340 | Crankshaft Timing Pin | 23069-41 |
| B | MOT1348 | Tensioning Tool (Auxiliary Drive Belt) | 23069-45 |
| C | MOT1337 | Camshaft Setting Tool and Bolts | 23069-47 |

## 23069-58

**Camshaft Pulley Setting Tool**

Holds two pulleys in place whilst changing the Cam Belt.

**Renault** Clio, Laguna, Megane 1.4/1.6 16v

| OEM Ref | Description | Part |
|---|---|---|
| MOT1490-01 | Camshaft Pulley Setting Tool | 23069-58 |



## 23069-71

NEW

**Camshaft Sprocket Locking Tool**

Required for Renault Megane II, Laguna II and Scenic II with Turbo 2.0 engines manufactured from 2002-2008.

Engine Codes F4R770/771 and F4Rt776/784/786/787

OEM MOT 1801

| OEM Ref | Description | Part |
|---|---|---|
| MOT 1801 | Camshaft Sprocket Locking Tool | 23069-71 |

## 23061-16

**Injection Pump Sprocket Locking Tool – Renault 1.9 DTi**

For use on many current models with engine codes F9Q (99-03)

Clio, Megane, Laguna, Kangoo.

| OEM Ref | Description | Part |
|---|---|---|
| MOT1200-01 | Timing Injection Pump Holder | 23061-16 |

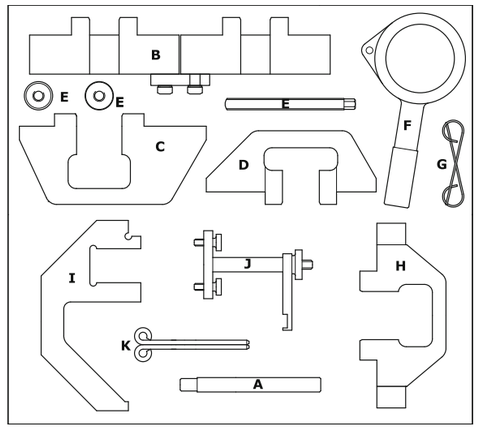
## 23069-42

**Tensioning Tool**

Tensioning Tool for use on many Renault models.

| OEM Ref | Description | Part |
|---|---|---|
| MOT1135-01 | Tensioning Wrench | 23069-42 |

## 23048-00 MASTER KIT




**Engine Timing Tool Set – BMW Petrol and Diesel engines**

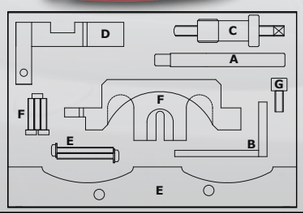
A comprehensive set of 14 tools suitable for both SOHC and Twin Cam applications.

The comprehensive application list for this set covers 3/5/7 series, X3/5, Z3/4, 840i/850i with E20/E31/E32/E34/E36/E38/E46/E84 petrol engines. Plus 1/3/5/7 Series. X3/5 with E28/E34/E36/E38/E39/E46/E53/E65/E66/E83 diesel engines.

Supplied in a metal storage case.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 11 2 300 | Crankshaft TDC Setting Pin | 23048-01 |
| B | 11 2 240 | Camshaft Locking Tool - Exhaust | 23048-02 |
| C | 11 3 190 | Camshaft Locking Tool - Petrol | 23048-03 |
| D | 11 3 320 | Camshaft Locking Tool - Diesel | 23048-04 |
| E | 11 4 220/11 3 390 | Primary Timing Chain Pre-load Tool | 23048-05 |
| F | 11 5 490 | VANOS Unit Engagement Wrench | 23048-06 |
| G | 11 3 290/11 3 292 | Tensioner Pin (2) | 23048-07 |
| H | 11 3 090 | Camshaft Locking Tool | 23048-08 |
| I | 11 6 320 | Camshaft Locking Tool | 23048-09 |
| J | 11 6 322 | Locking Clamp | 23048-11 |
| K | 11 3 340 | Tensioner Pin (2) | 23048-12 |

## 23248




**Valve Timing Tool Set – BMW 1.6/1.8/2.0**

For use on chain driven petrol engine models:

316/316ti Compact (E46) with engine code: N42 B18A/N46 B18

318i/318ti Compact (E46) with engine code: M42 B20A, N46 B18, N46 B20

118i/120i (E81/82/87) with engine code: N46 B20B, N46T B20

318i/320i (E90/91/92/93) with engine code: N46 B18B/N46 B20B

Z4 2.0 (E85) with engine code: N46 B20

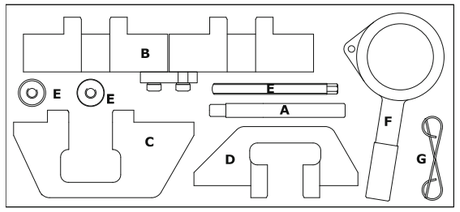
X3 (E83) 2.0 with engine code: N46 B20B

Also available in modular pack No. **23248-PK**

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 11 5 120 | Flywheel Timing Pin | 23048-01 |
| B | 11 9 190 | Flywheel Timing Pin | 23048-12 |
| C | 11 9 340 | Timing Chain Pre-tensioning Tool | 23048-14 |
| D | 11 9 292 | Inlet Camshaft Alignment Tool | 23048-18 |
| E | 11 9 350 | Sensor Gear Alignment Tool | 23048-16 |
| F | 11 9 291 | Exhaust Camshaft Alignment Tool | 23048-17 |
| G | 11 9 293 | Camshaft Alignment Tool Bolt M8 x 25 | 23048-19 |



## 23148




**Engine Timing Tool Set – BMW**

This comprehensive 9 piece set of tools enables the correct timing positions to be achieved on both camshaft and crankshaft whilst servicing both petrol and diesel engines. It includes a special Wrench for the controlled turning of the exhaust camshaft sprocket when removing and installing the VANOS unit and includes a Primary Timing Chain Pre-load tool for tensioning the timing chain on M50, M52, M42 and M60 engines.

**For use on many models including:**

316i, 318i, 518i with engines M40, M43

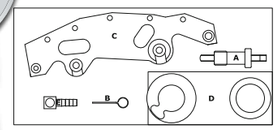
316i, 318Ti, 320i, 323i, 325i, 328i, 520i, 523i, 525i and 528i with engines M42, M44, M50 and M52

Diesel models 325 and 525 with M51 engines which are also used in Range Rover and Opel Omega.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 11 2 300 | Crankshaft TDC Setting Pin | 23048-01 |
| B | 11 2 240 | Camshaft Locking Tool - Exhaust | 23048-02 |
| C | 11 3 190 | Camshaft Locking Tool - Petrol | 23048-03 |
| D | 11 3 320 | Camshaft Locking Tool - Diesel | 23048-04 |
| E | 11 4 220/11 3 390 | Primary Timing Chain Pre-load Tool | 23048-05 |
| F | 11 5 490 | VANOS Unit Engagement Wrench | 23048-06 |
| G | 11 3 290/11 3 292 | Tensioner Pin (2) | 23048-07 |

## 23249

NEW




**Valve Timing Tool Set – BMW 2.5/3.0**

An additional set of tools used in conjunction with 23048 (below) for locking the engine timing on M52, M54 with engine codes 22 6S1, 25 6S5, 30 6S3.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 11 4 220 | Timing Chain Pre-tensioning Tool | 23048-05A |
| B | 11 3 292 | Tensioner Pin | 23048-07 |
| C | 11 6 150 | Camshaft Timing Setting Tool | 23249-A |
| D | 11 6 180 | Camshaft Sprocket Alignment Tool | 23249-B |
| E | 0132QZ, 0132Z, 4507-TA | Compressed Air Connector | 23249-C |

## 23048

**Engine Tool Set – BMW Twin Cam**

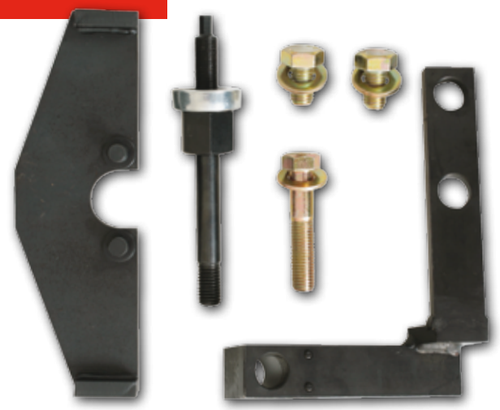
Twin Cam setting bracket and crankshaft locking pin.

Suitable for use on BMW M42, M44, M50 and M52 engines as used in 316iS, 318Ti, 320i, 323i, 325i, 328i, 520i, 523i, 525i, 528I models from '91 on.

Supplied in metal storage case.

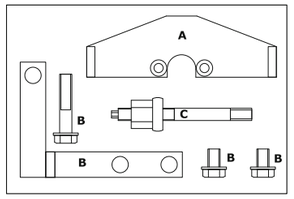
| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 11 2 300 | Crankshaft Locking Pin | 23048-01 |
| B | 11 2 240 | Camshaft Clamp Assembly | 23048-02 |

## 23180



**Engine Timing Tool Kit for BMW Mini One, Cooper, Cooper S 1.6 petrol engines**

Specific timing tool kit for BMW Mini fitted with W10B16AA/BA engines from 2001-2006.



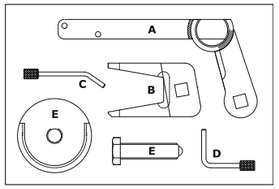

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 11 8 250 | Camshaft Sprocket Holding Tool | 23180-01 |
| B | 11 8 370 | Engine Support Bracket | 23180-02 |
| C | 11 8 240 | Tensioner Assembly Tool | 23180-03 |

## 23182

NEW

**Engine Service Tool Set – BMW Mini**

This set is for use on Mini and Mini Cooper models and is essential when conducting engine service.




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 11 8 410 | Serpentine Belt Tensioner | 23131 |
| B | 11 8 390 | Camshaft Pulley Loosening Tools (Cooper R50/R53) | 23132 |
| C | | Tensioner Locking Pin | 23133 |
| D | | Locking Pin | 23134 |
| E | | Supercharger Pulley Remover | 23152 |

## 23048-20

**Timing Tool Set – BMW Diesel engines**

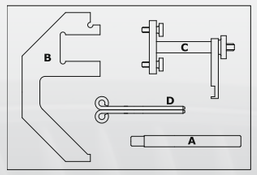
For use when servicing the engine and when the correct timing positions of camshaft and crankshaft is required.

Suitable for use on the following BMW models:

318D (E46) 2.0 2000-2005 with 20 4D 1 (M47) engine codes

320D (E46) 2.0 1998-2002 with 20 4D 1 (M47) engine codes

Also suitable on Land Rover Freelander and Rover 75




Available in modular packaging No. **23048-20PK**

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 11 2 300 | Crankshaft TDC Setting Pin | 23048-01 |
| B | 11 6 320 | Camshaft Locking Tool | 23048-09 |
| C | 11 6 322 | Locking Clamp | 23048-11 |
| D | 11 3 340 | Tensioner Pin (2) | 23048-12 |



## 23241

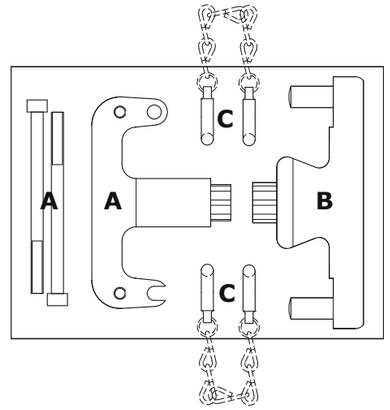
NEW

**Timing Locking Tool Set – Mercedes Benz**

A timing locking tool set which covers a large range of models in the Mercedes Benz range including Petrol and Diesel engines.

Set includes Flywheel Plate Locking Tools and Camshaft Locking Pin Set.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 601589024000 | Locking Tool c/w Bolts M6 x 90mm (2) | 23241-01 |
| B | 602589004000 | Flywheel Plate Locking Tool | 23241-02 |
| C | 11589031500 | Camshaft Locking Pin Set (2) | 23241-03 |

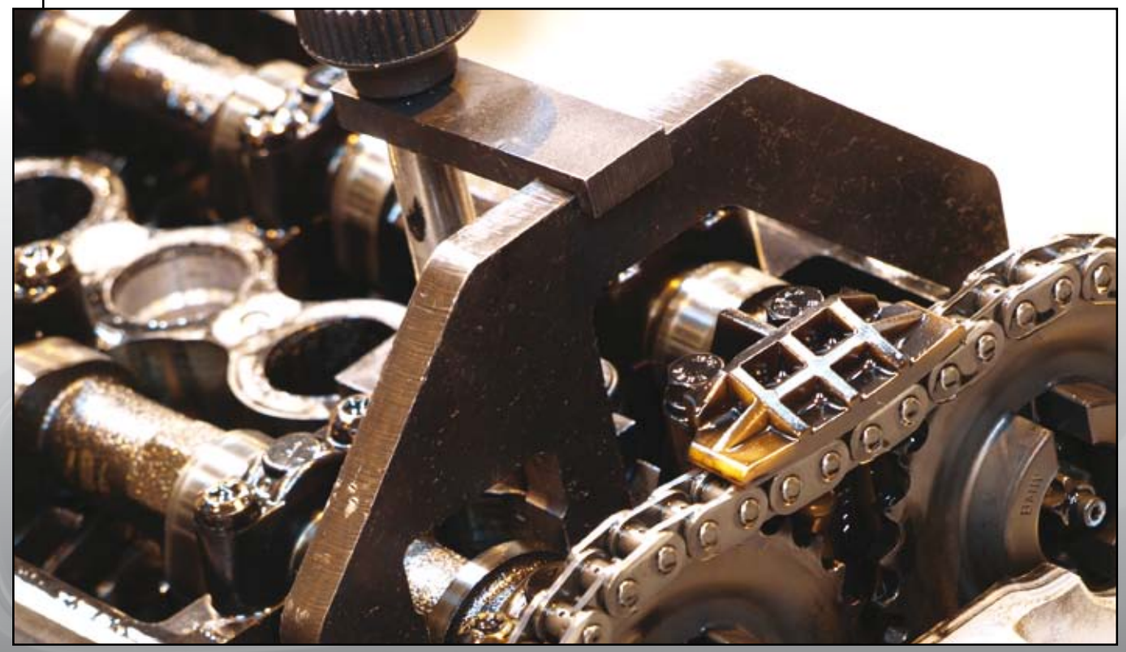



**Timing Locking Tool Set – Chrysler**

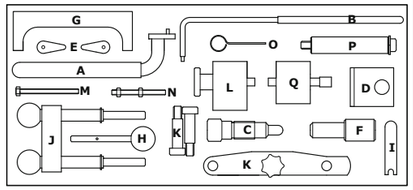
A timing locking tool set which covers Chrysler PT Cruiser 2.2 CRD and Jeep Grand Cherokee 2.7 CRD.

Set includes Flywheel Plate Locking Tools and Camshaft Locking Pin Set

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 8932 | Locking Tool c/w Bolts M6 x 90mm (2) | 23241-01 |
| B | 8933 | Flywheel Plate Locking Tool | 23241-02 |
| C | 8929 | Camshaft Locking Pin Set (2) | 23241-03 |



## 23162-50 MASTER KIT




**Engine Timing Set – Volkswagen Audi Group**

A new very comprehensive tooling set with over seventeen pieces specifically designed for camshaft alignment, injection pump alignment, flywheel locking and tensioning on Audi, Seat, Skoda and Volkswagen petrol and diesel engines:

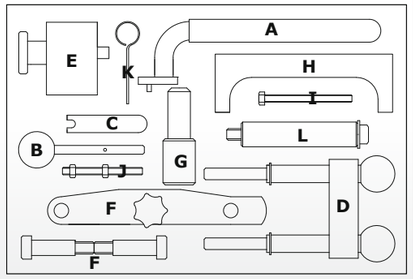
**Petrol** – 1.4/1.6/1.8 Turbo, 2.0/2.2/2.3, 1.8/2.0 16v, 2.6/2.8

**Diesel** – 1.0/1.2/1.3/1.4/1.9TDi, 1.7/1.9SDi, 2.5TDi and 2.8 30v

Also available in modular packaging No. **23162-50PK**

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | V159/3387 | Tension Wrench | 23044-01 |
| B | U-30009/3387 | Tension Wrench | 23044-03 |
| C | 3242 | Crankshaft Locking Tool | 23056-01 |
| D | 3458 | Camshaft Aligning Tool (2) | 23056-02 |
| E | | Shim Set (2) | 23060-F |
| F | U-20003/2064 | 15.4mm Injection Pump Setting Pin | 23061-01 |
| G | U-40021/2065A | Camshaft Setting Bracket | 23062-B |
| H | U-40074/T20102/3359 | Injection Pump Pulley Timing Pin 6mm | 23069-11 |
| I | 23-058/310-084/T10008 | Tensioner Locking Tool | 23069-12 |
| J | T10016/T10014 | Camshaft Locking Tool | 23069-14 |
| K | T20038/3418 | Camshaft Setting Bracket | 23161-B |
| L | T10050/310-085/23-059 | Crankshaft Pulley Locking Tool | 23161-03 |
| M | | Setscrew M5 x 60mm | 23161-04 |
| N | | Stud and Nut | 23161-05 |
| O | T20046 | Tensioner Pin | 23161-06 |
| P | 3369 | Support Guides (2) | 23161-07 |
| Q | T10100 | Crankshaft Pulley Locking Tool | 23161-03C |

## 23161




**Engine Timing Set – Volkswagen Audi Group**

This kit of twelve tools is required for petrol and diesel engine service including timing belt replacement on models as detailed below:

Audi A2 1.2/1.4TDI, A3 1.9TDI (96-), A3/A4 and A6 1.9TDI (99-), Seat Toledo 1.9 TDI (99-) Skoda Octavia 1.9 SDI/TDI (96-), Volkswagen Golf/Bora 1.9 SDI/TDI, New Beetle 1.9 TDI (97-), Lupo 3L 1.2 TDI, Lupo/Polo 1.4 TDI, Golf/Bora 1.9 TDI (99-)

This set also covers older 1.9D models (76-)

Available in modular packaging No. **23161-PK**

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | U-30009/T10020/V.159/3387 | Tension Wrench | 23044-01 |
| B | T20102, 3359, U-40074 | Injection Pump Pulley Timing Pin | 23069-11 |
| C | 23-058, T10008, 310-084 | Tensioner Locking Tool | 23069-12 |
| D | T10016/T10074 | Camshaft Locking Tool | 23069-14 |
| E | 23-059, T10050, 310-085 | Crankshaft Pulley Locking Tool | 23161-03 |
| F | T20038, 3418 | Camshaft Setting Bracket | 23161-B |
| G | U-20003, 2064 | Injection Pump Pulley Timing Pin | 23061-01 |
| H | U-40021, 2065A | Camshaft Setting Bracket | 23062-B |
| I | | Setscrew M5 x 60mm | 23161-04 |
| J | | Stud and Nut | 23161-05 |
| K | T20046 | Tensioner Pin | 23161-06 |
| L | 3369 | Support Guides (2) | 23161-07 |



## 23162-90 FSI NEW

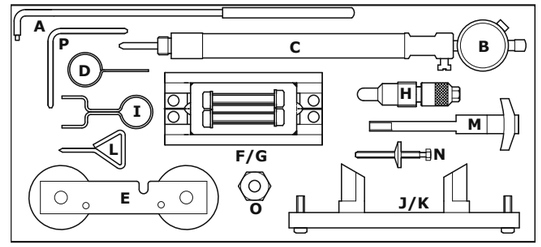
**Valve Timing Tool Set – Volkswagen Audi Group FSI**

A comprehensive set containing the necessary tools to service FSi engines fitted to Volkswagen Polo, Golf Touran, Passat; Skoda Octavia and Audi A3 with 1.4/1.6 engines (Codes AXW, AXU, BAG, BLF, BKG, BLN, BLP)

Audi A3, A4, A6, Volkswagen Golf, Passat and Touran with 2.0 engines (Codes AXW, BHD, BMB, AWA, AXX, BPY, BWA)

Audi A6, A6 Quatro with 2.4 engines (Code BDW), Audi A4, A6, A8 with 3.2 engines (Codes: AUK, BKH)

Plus TFSI 2.0 engines fitted to Audi A4, A6 and Volkswagen Passat (Codes BUL, BPJ, BGB, BWA, BWE)



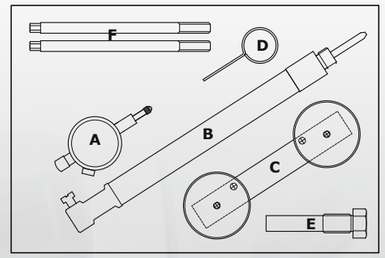

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | T10020/V.159 | Tensioner Wrench | 23044-04 |
| B | VAS 6079 | Dial Test Indicator | 23072 |
| C | T10170 | Piston Height Adaptor | 23107-B |
| D | T40011 | Tensioner Pin | 23161-06 |
| E | T10171 | Camshaft Alignment Tool | 23162-41 |
| F/G | T40070 | Camshaft Alignment Tools (2) | 23162-61 |
| H | T40069 | Crankshaft Locking Tool | 23162-62 |
| I | T40071 | Timing Chain Tensioner Locking Pin | 23162-63 |
| J/K | T10252 | Camshaft Alignment Tool | 23161-91 |
| L | T10115 | Tensioner Pin | 23060-21 |
| M | 3366 | Chain Tensioner Retainer | 23161-92 |
| N | T10092 | Chain Tensioner Retainer | 23161-93 |
| O | T40058 | Crankshaft Pulley Bolt Adaptor | 23161-95 |
| P | T10060/A | Tensioner Pin | 23161-96 |

## 23162-30 FSI/TSI NEW

**Engine Timing Tool Set – Volkswagen Audi Group 1.4/1.6 FSI, 1.4 TSI**

This new set is for use on both 1.4/1.6 FSI and TSI engines.

The additional tools increase the application list to include Volkswagen Polo, Golf, Golf Estate, Golf Plus, Jetta, Passat, Eos, Tiguan and Touran, Audi A3 1.6, Skoda Fabia II 1.6, Octavia II and Roomster with engine codes: AXU, BAG, BKG, BLF, BLG, BLN, BLP, BMY, BTS, BWK, CAXA, (03-)




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | VAS 6079 | Dial Test Indicator | 23072 |
| B | T10170 | Dial Gauge Holder | 23107-B |
| C | T10171 | Camshaft Alignment Tool | 23162-41 |
| D | T40011 | Tensioner Locking Pin | 23161-06 |
| E | T10341 | Crankshaft Locking Pin | 23161-42 |
| F | T10340 | Guide Pins (2) | 23161-43 |

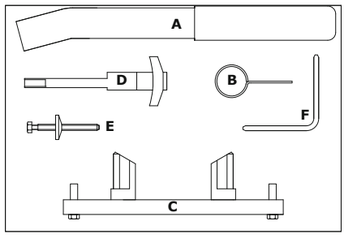
## 23161-90 FSI NEW

**Engine Timing Tool Set – Volkswagen Audi Group 2.0 FSI**

A set of timing tools specifically for 2.0 direct injection, 4 cylinder engines.

Applications include:
Audi A3 (-04) Volkswagen Golf/ Touran (04-)

**Optional:**
23106 Camshaft Pulley Wrench (OEM Ref. 3036)




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | T10020/V.159 | Two Pin Wrench | 23044-04 |
| B | T40011 | Tensioner Locking pin | 23161-06 |
| C | T10252 | Camshaft Alignment Tool | 23161-91 |
| D | 3366 | Chain Tensioner Retainer | 23161-92 |
| E | T10092 | Chain Tensioner Retaining Screw and Nut | 23161-93 |
| F | T10060/A | Auxiliary Drive Belt Tensioner Locking Pin | 23161-96 |

## 23162-60 FSI NEW

**Valve Timing Tool Kit – Audi 2.4/3.2 FSI**

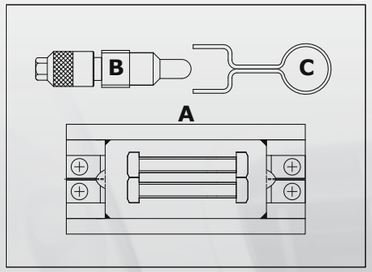
A specifically designed set of tools for the following applications:

Audi A4/A6 3.2 FSI with engine code AUK (04-)

Audi A6/Quattro 2.4 with engine code BDW (04-)

Audi A8 3.2 FSI (05-)

**Optional:**
23161-95 Crankshaft Pulley Bolt Adaptor (OEM T40058)




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | T40070 | Camshaft Locking Tool (2) | 23162-61 |
| B | T40069 | Crankshaft Locking Pin | 23162-62 |
| C | T40071 | Timing Chain Tensioner Locking Pin | 23162-63 |



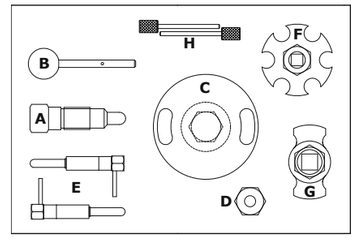
## 23280 DIESEL NEW

**Engine Timing Tool Set – Volkswagen 2.7/3.0 V6 TDi**

Suitable for servicing V6, 4 valve, common rail diesel, chain driven engines. Necessary when aligning the valve timing following engine service and/or cylinder head(s) removal.

**Applications include:**
Audi A4 2.7 TDi with engine code BPP (05-09) and A4 Quattro 2.0 TDi with engine code BMZ (05-06) and Q7 3.0 TDi with engine codes BUG, BUN (06-09)

**Also:**
Volkswagen Touareg 3.0 V6 TDi (08-) and Phaeton 3.0 V6 TDi (06-)




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 3242 | Crankshaft Locking Pin | 23056-01 |
| B | 3359 | Injection Pump/Balancer Shaft Locking Pin | 23069-11 |
| C | T40049 | Crankshaft Turning Tool - Type 2 | 23161-21 |
| D | T40058 | Crankshaft Turning Tool - Type 1 | 23161-95 |
| E | T40060 | Camshaft Locking Pin (2) | 23161-22 |
| F | T40061 | Camshaft Alignment/Locking Tool | 23161-23 |
| G | T40062 | Camshaft Sprocket Holding Tool | 23161-24 |
| H | | Pin 3.3mm dia (2) | 23161-25 |

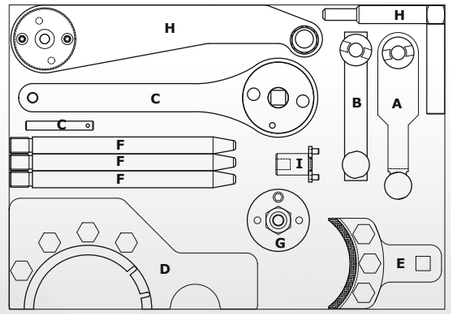
## 23270 DIESEL NEW

The water pump on these engines is driven by the timing belt and therefore needs to be removed when servicing the engine. The specialist tools required for this task are available (23162-80) and shown on Page 63.

**Engine Timing Tool Set – VAG 2.5/4.9D/TDI PD**

For use on Volkswagen Touareg and Transporter 2.5 TDI PD models with engine code: BAC, BLK, BPD, AXD, AXE, BLJ, BNZ, BPC (03-) plus 4.9D/ TDI PD models with engine code: AYH (03-)

These engines are gear driven but the injection timing is controlled via the camshaft followers.




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | T10193 | Camshaft Locking Tool Type 1 | 23270-01 |
| B | T10194 | Camshaft Locking Tool Type 2 | 23270-02 |
| C | T10195 | Crankshaft Locking Tool | 23270-03 |
| D | T10199 | Camshaft Gear Retaining Tool Type 1 | 23270-04 |
| E | T10199/1 | Camshaft Gear Retaining Tool Type 2 | 23270-05 |
| F | T10200 | Guide Pin Set (3) | 23270-06 |
| G | T10225 | Crankshaft Turning Tool | 23162-82 |
| H | T10226 | Crankshaft Alignment Tool | 23270-07 |
| I | T10234 | Camshaft Compensation Gear Pre-tensioning Tool | 23270-08 |

## 23161-80 DIESEL

**Tension Tool Kit – Volkswagen**

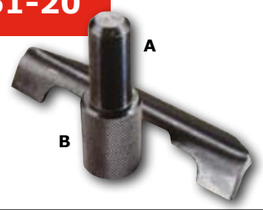
These tools are necessary during timing belt replacement on Volkswagen 1.9/ 2.0 TDi PD SOHC, 4 cylinder diesel engines where there is restricted access to the tensioner pulley rollers due to the modified sub-frame mountings.

**Applications include:**
Audi A3 2.0 TDI PD DPHC (05-08) with engine codes AZU, BKD, BHN, BUY and Volkswagen Caddy, Caddy Maxi 2.0 SDi (09-) with BDJ, BST with hydraulic tensioner engines and
Transporter 1.9 TDi Pd (06-09)

NEW

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | T10264 | Ball End Hex Key 6mm | 23161-81 |
| B | T40098 | 3.9mm Tensioner Pulley Locking Pin | 23161-83 |
| C | T10265 | 2.5mm Tensioner Pulley Locking Pin | 23161-82 |

## 23061-20




**Timing Tool Kit – Diesel**

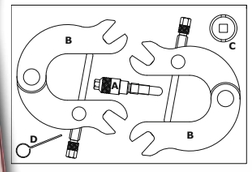
Essential tools for holding the camshaft and injection pump in timing position when changing the timing belt, camshaft or servicing the injection pump.

Specifically designed for use on a wide range of Audi, Volkswagen models including Audi A4/ A6 1.9 TDi (94-02) and Volkswagen Lupo/Polo/ Polo Classic/Caddy/Golf/ Vento 1.7/1.9 SDi (95-05)

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 2065A | Camshaft Setting Bracket | 23062-B |
| B | 2064 | Injection Pump Locking Pin | 23061-01 |

## 23162-70

NEW

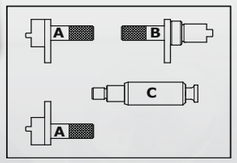



**Engine Timing Tool Set – VAG 3.0 V6**

A set of tools specifically designed for:
Audi A4, A6 3.0 V6 with engine codes ASN,BBJ (01-)

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | T40026 | Crankshaft Locking Tool | 23162-71 |
| B | T40030 | Camshaft Locking Tool (2) | 23162-72 |
| C | T40028 | Camshaft Sprocket Adjusting Tool | 23162-73 |
| D | T40011 | Tensioner Locking Pin | 23161-06 |

## 23176



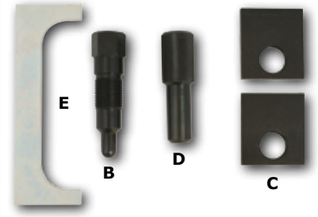

**Engine Timing Tool Set – Volkswagen Audi Group 1.2 3cyl**

This kit contains the necessary tools for timing the engines on 1.2 6v with 3 cylinder, engine code AWY and BMD and 12v engine code AZQ and BME fitted to Volkswagen Polo, Seat Ibiza and Skoda Fabia.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | T10123 | Camshaft Aligning Tool (2) | 23176-01 |
| B | T10120 | Camshaft Aligning Tool | 23176-02 |
| C | T10121 | Crankshaft Locking Tool | 23176-03 |



## 23056




**Engine Timing Tool Set – Audi**

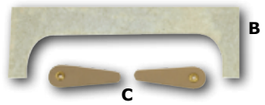
Specifically for use on Audi 80, 100, A4, A6, A8 2.6/2.8 litre V6 engines.

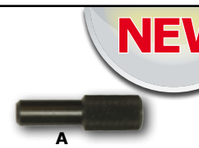
The crankshaft locking screw is for use on Audi 2.4, 2.7 Turbo and 2.8 engines plus 2.8 30v models. The camshaft aligning plates are for 2.5 TDI V6 models.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 3243 | Twin Cam Locking Strap | 23056-A |
| B | 3242 | Crankshaft TDC Locking Screw | 23056-01 |
| C | 3458 | Camshaft Locking Plate (2) | 23056-02 |
| D | 2064 | Setting Pin | 23061-01 |
| E | 2065A | Setting Bracket | 23062-B |

## 23161-70

NEW



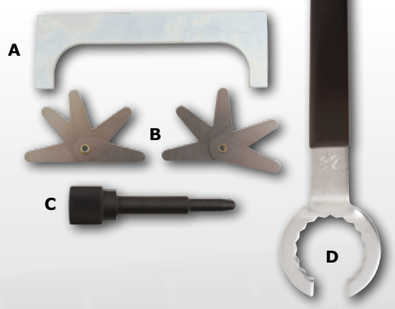
**Engine Timing Service Set – Volkswagen 2.4**

For use on Transporter, LT and Touareg vehicles.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 2064/U-20003 | Injection Pump Sprocket Locking Pin 15.4mm | 23061-01 |
| B | 2065A/U-40021 | Camshaft Setting Bar | 23062-B |
| C | | Shim Set (2) | 23060-F |
| D | T10025 | Crankshaft Damper Holding Tool | 23161-71 |

## 23184

NEW




**Engine Timing Tool Kit – Volkswagen Crafter 2.5 TDi**

Tools specifically designed for holding the engine timing whilst changing the Cam belt on engines with codes BJJ, BJK, BJL, BJM (06-09)

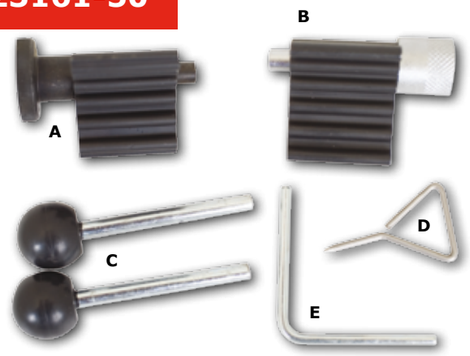
| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 2065A | Camshaft Setting Bar | 23062-B |
| B | | Shim Set (2) | 23060-F |
| C | 50009 | Crankshaft Timing Pin | 23161-15 |
| D | 3355 | Tensioner Pulley Spanner | 23161-16 |

## 23069-12

**Tensioner Locking Tool**

| OEM Ref | Description | Part |
|---|---|---|
| T10008 | Tensioner Locking Tool | 23069-12 |

## 23161-50




**Engine Timing Tool Set – Volkswagen Audi Group**

For use on many current Volkswagen Audi Group 1.4/1.9/2.0 TDi PD models including certain DOHC.

**Applications include:**
Audi A3, A4, A6, Skoda Octavia II, Fabia, Volkswagen; Golf, Golf Plus, Jetta, Touran, Lupo, Fox, Bora, Beetle, Caddy, Sharan, Passat and Seat; Leon, Toldeo, Althea, Alhambra

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 310-085/T10050 | Crankshaft Pulley Setting Tool | 23161-03 |
| B | T10100 | Crankshaft Pulley Setting Tool | 23161-03C |
| C | 3359/T20102 | Injection Pump Locking Pin (2) | 23069-11 |
| D | T10060/A | Auxilliary Drive Belt Tensioner Locking Pin | 23161-96 |
| E | T10115 | Tension Pulley Locking Pin | 23060-21 |

## 23161-09

**Guide Pin Set – Volkswagen Audi Group**

A set of tools designed to enable the front section of the car to be slid forward to provide more space when servicing the engine. This feature is extremely useful when working on the engine timing.

8mm for use on Passat 1.9TDI PD 1.6/2.0, Sharan 1.9 TDI PD

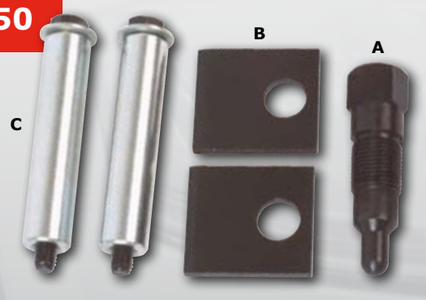
| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 3369 | 17mm Guide (2) | 23161-07 |
| B | 3411 | 8mm Guide (2) | 23161-08 |
| C | | 10mm Guide (2) | 23161-11 |

## 23161-71

**Crankshaft damper Holding Tool**

| OEM Ref | Description | Part |
|---|---|---|
| T10025 | Crankshaft Damper Holding Tool | 23161-71 |

## 23056-50




**Engine Timing Tool Kit – 2.5 V6 TDi**

Essential timing tool kit introduced for 2.5 V6 TDi engines fitted to Audi A4, A6, A8, Allroad with engine codes AFB, AKN, AKE, AYM, BAU, BCZ, BDG, BDH, BFC (97-09) and Volkswagen Passat with engine codes AFB, AKN, BAU, BDG BDH (98-05)

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 3242 | Crankshaft TDC Locking Screw | 23056-01 |
| B | 3458 | Camshaft Locking Plate (2) | 23056-02 |
| C | 3369 | Support Guides (2) | 23161-07 |



## 23069-11

**Injection pump locking pin**

This injection pump locking pin has been designed with ventilation holes to prevent the hydraulic problem of 'jacking out'

Used on Volkswagen Lupo 3L 1.2/1.4 TDi, Polo 1.4 TDi, Golf/Bora 1.9 SDi/TDi, Passat 1.9 TD (94-96), Beetle 1.9 TDi (99-) and Transporter 1.9TD

| OEM Ref | Description | Part |
|---|---|---|
| 3359/T20102 | Injection Pump Locking Pin | 23069-11 |

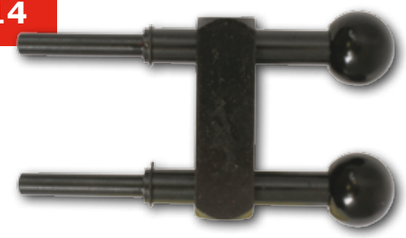
## 23161-10

**Camshaft Locking Tool – Volkswagen/Seat**

For use on many current Volkswagen chain driven 2.3/2.8/2.9 engines fitted to Volkswagen Golf, Bora, Vento, Corrado, Passat, Sharon and Transporter, Seat Toledo 2.3

| OEM Ref | Description | Part |
|---|---|---|
| T10068/3268 | Camshaft Locking Tool | 23161-10 |

## 23069-14



**Camshaft Locking Tool – Volkswagen Audi Group**

This tool is primarily for use on Volkswagen Lupo 1.4. Polo 1.4/1.6, Polo Classic 1.4, Golf Bora 1.4 (97-) and Skoda Fabia, Fabia II, Octavia, Roomster 1.4 16v (99-09).

The tool can also be dismantled and used on Golf/Bora 1.6 FSi (02-06) with engine code: BAD.

| OEM Ref | Description | Part |
|---|---|---|
| MP1 312/T10016, T10074 | Camshaft Locking Tool | 23069-14 |

## 23061-01

**Injection Pump Setting Pin**

| OEM Ref | Description | Part |
|---|---|---|
| 2064/U20003 | Injection Pump Setting Pin 15.4mm | 23061-01 |

## 23062-B

**Camshaft Setting Bracket**

| OEM Ref | Description | Part |
|---|---|---|
| T10008/2065A | Camshaft Setting Bracket | 23062-B |

## 23106

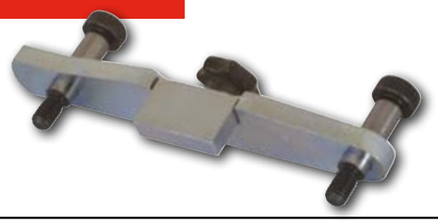
**Sprocket Holding Wrench**

A multi-applicational wrench with variable adjustment.

Ideal for holding the sprocket whilst releasing and tightening the fastener which retains the sprocket.

| OEM Ref | Description | Part |
|---|---|---|
| 3036/MP1216 | Sprocket Holding Wrench | 23106 |

## 23161-B



**Camshaft Setting Bracket – Volkswagen Audi Group**

This bracket enables the correct engine timing to be conducted following the simple removal of the vacuum pump, it is not necessary to remove the camshaft cover and gasket.

**Applications include:** Audi A4 1.9TDi Volkswagen Golf/ Bora 1.9SDI/TDI, New Beetle 1.9 TDI (97-) Seat Ibiza/ Cordoba/Alhambra/Inca 1.9TDi Skoda Octavia 1.9SDi

| OEM Ref | Description | Part |
|---|---|---|
| T20038/3418 | Camshaft Setting Bracket | 23161-B |

## 23056-A

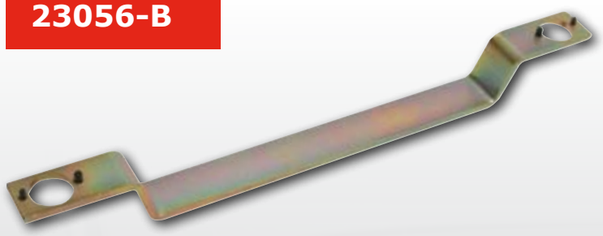
**Twin Cam Locking Strap – Audi**

For Audi 80, 100, A4, A6, A8 2.6/2.8 litre engines (91-) with engine codes AAH, ABC.

Also included in **23056**

| OEM Ref | Description | Part |
|---|---|---|
| 3391 | Twin Cam Locking Strap | 23056-A |

## 23056-B



**Twin Cam Locking Strap – Audi**

For use on Audi A4, A6, A8 with 2.4/2.8 engines and S4 with 2.7 Turbo (97-) plus Volkswagen Passat 2.8 30v with engine codes AGA, AJG, ALF, AGB, ALG, ALW, APR, AWD (96-)

| OEM Ref | Description | Part |
|---|---|---|
| 3242 | Twin Cam Locking Strap | 23056-B |

## 23161-95

NEW

**Crankshaft Pulley Bolt Adaptor**

This tool is required to enable the crankshaft to be turned on most Audi chain driven FSi engines plus 2.7/3.0 TDi engines fitted to A4/A6 Quattro and Q7

| OEM Ref | Description | Part |
|---|---|---|
| 4430/T40058 | Crankshaft Adaptor | 23161-95 |



## 23161-16

NEW

**Tensioner Pulley Spanner**

| OEM Ref | Description | Part |
|---|---|---|
| 3355 | Tensioner Pulley Spanner | 23161-16 |

## 23044-01

**Tension Spanner – Volkswagen Audi Group**

For holding the tensioner when tightening the locking nut on many petrol and diesel powered models of Audi and Volkswagen cars.

Handle length 140mm

| OEM Ref | Description | Part |
|---|---|---|
| V.159 | Tensioner Wrench | 23044-01 |

## 23044-02

Similar to 23044-01, but with longer handle, length 210mm, as prefered for larger engines e.g. 1.9 TD and 2.0 16v

| OEM Ref | Description | Part |
|---|---|---|
| V159/U30009 | Tensioner Wrench | 23044-02 |

## 23044-03

**Two Pin Wrench**

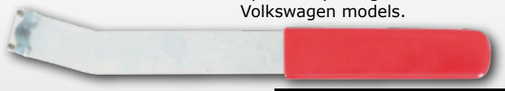
This new tension lever has been introduced to suit the new design of tensioner as now fitted to the following models:

Seat Alhambra 2.0

Volkswagen Lupo 3L 1.2TDI, Lupo/Polo 1.4TDI, Golf/Bora/Beetle/Sharan 1.9 TDI, Passat 1.9 TDI

| OEM Ref | Description | Part |
|---|---|---|
| 3387/T10004 | Two Pin Wrench | 23044-03 |

## 23044-04



**Two Pin Wrench**

This tool can be used to lever the camshaft to relieve the tension load on the chain.

Specifically designed for 2.0 FSi engines on many Volkswagen models.

| OEM Ref | Description | Part |
|---|---|---|
| T10020 | Two Pin Wrench | 23044-04 |

## 23044-05

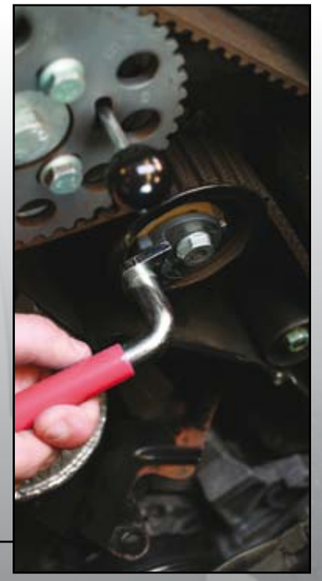
NEW

**Tension Pulley Holding Wrench**

A multi-applicational wrench with variable position adjustment.

Ideal for holding the tension pulley whilst releasing and tightening the fastener which retains the pulley.

| OEM Ref | Description | Part |
|---|---|---|
| T10020/V.159 | Tension Pulley Holding Wrench | 23044-05 |



## 23078 — LAND ROVER/ ROVER/MG KV6

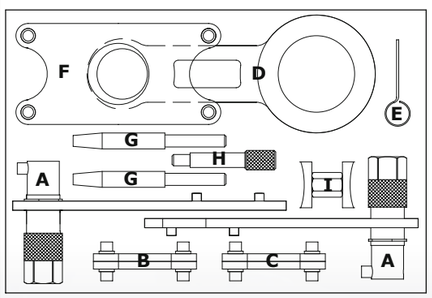
NEW

**Engine Timing Tool Set – Rover KV6 engine**

This comprehensive set covers all KV6 variants and enables the service and engine timing of 2.0 and 2.5 litre V6 quad cam petrol engines fitted to Rover 825, 45, 75, Land Rover Freelander 2.5 and MG ZS/ZT/ZT-T 160, 180, 190.

MULTI-USE

Kia Sedona 2.5

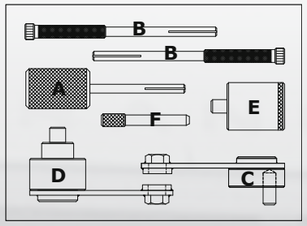



| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | LRT12-196 / 18G / 1747 | Camshaft Locking Tool (2) | 23078-01 |
| B | LRT12-187 | Camshaft Locking Adaptor - 2.0 (2) | 23078-02 |
| C | LRT12R-208 | Camshaft Locking Adaptor - 2.5 (2) | 23078-03 |
| D | LRT12-175 | Rear Camshaft Sprocket Setting Tool | 23078-04 |
| E | | Tensioner Pushrod Retension Pin | 23161-06 |
| F | LRT12-175 | Rear Camshaft Sprocket Setting Tool | 23078-06 |
| G | LRT12-198 / 18G / 1746A | Rear Camshaft Sprocket Guide Pin (2) | 23078-07 |
| H | LRT12-232 / 18G / 1747-5 | Crankshaft Locking Pin | 23078-08 |
| I | LRT12-195 / 18G / 1747-1 | Rear Cam Sprocket Spreader | 23078-09 |

## 23079 — LAND ROVER & JAGUAR S-TYPE

**Engine Timing Kit – Land Rover/Jaguar 2.7 TDV6 (04-07)**

For Land Rover Discovery, Range Rover Sport and Jaguar S Type diesel models with either automatic or manual tensioners.



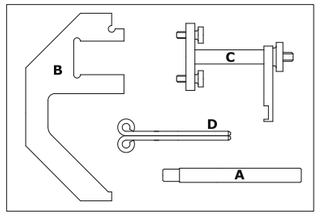

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 303-1132 | Camshaft Sprocket Alignment Tool | 23079-01 |
| B | 303-1126/0195H | Camshaft Sprocket Alignment Pins (2) | 23061-21 |
| C | 303-1117 | Flywheel Locking Tool – Automatic Tensioner | 23079-03 |
| D | 303-1116 | Flywheel Locking Tool – Manual Tensioner | 23079-04 |
| E | 0195K | Flywheel Locking Tool | 23061-18 |
| F | 0195C | Coolant Pump Pulley Pin | 23061-19 |



## 23048-20 — ROVER CD CDTI

**Engine Tool Set – Rover/Land Rover/MG**

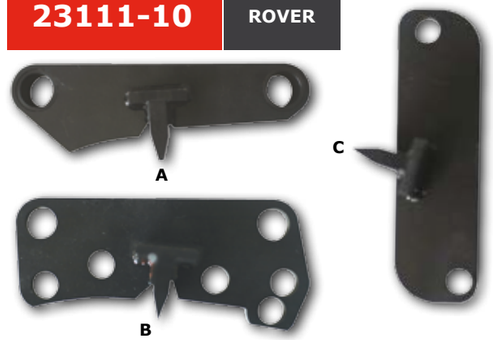
Twin Camshaft setting bracket and crankshaft locking pin covers chain driven 2.0 CDT/CDTi engines on: Rover 75 (99-05), MG ZT (01-05), MG ZT-t (01-05) with engine code M47R Land Rover Freelander 2.0D TD4 engine code 20403/TD4 (00-06)




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 12-171/12-108 | Crankshaft TDC Setting Pin | 23048-01 |
| B | 12-173 | Camshaft Setting Plate | 23048-09 |
| C | 12-174 | Locking Clamp | 23048-11 |
| D | 12-172 | Tensioner Retaining Pin 4mm (2) | 23048-12 |

## 23111-10 — ROVER

NEW




**Flywheel Locking Tool Set – Rover/Land Rover/MG**

A set of three flywheel locking tools necessary to enable crankshaft pulley removal when changing the timing belts on the following engines:

MGF/Coupe 1.8, Land Rover Freelander 1.8, Rover Metro, 214, 216, 218 16v, 414, 416 16v, 216, 416 GTi, Rover 218, 418 Diesel, Rover 216, 416

| ID | OEM Ref | Description | Part | Application |
|---|---|---|---|---|
| A | 12-170 | Flywheel Locking Tool | 23111-11 | Rover 75 |
| B | 18G1571 | Flywheel Locking Tool | 23111-12 | Rover K16 without PG1 Gearbox |
| C | 18G1742 | Flywheel Locking Tool | 23111-14 | Rover K16 with PG1 Gearbox |

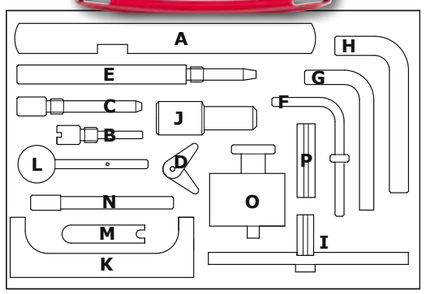
## 23050 — ROVER K16

**Camshaft Sprocket Locking Tool – K16 engines**

Camshaft Locking Tool for use on K16 engines with and without the PG1 Gearbox including 214, 216, 400, 25, Streetwise, 75 plus MGF 1.6, 1.8, Trophy.

| OEM Ref | Description | Part |
|---|---|---|
| 18G1570 | Camshaft Sprocket Locking Tool | 23050 |

## 23160 MASTER KIT




**Engine Timing Tool Set – Ford**

A comprehensive tooling set with over 17 tools for aligning camshafts, crankshafts and locking flywheels specifically for Ford/Mazda petrol and diesel engines.

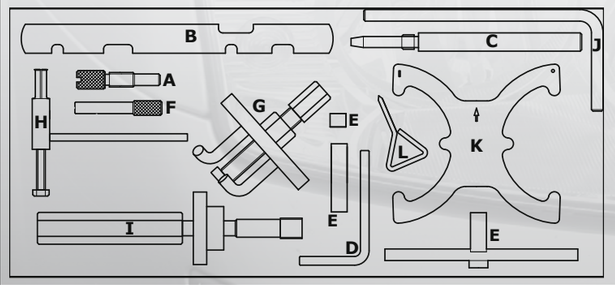
**Petrol** – 1.25/1.3/1.4/1.6 SOHC and 1.6/1.8/2.0 16v

**Diesel** – 1.8/1.9 D/TD, 1.9TDi and 2.5Di/Turbo

Also available in modular packaging No. **23160-PK**

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 303-376, 303-367, 21-162B | Camshaft Setting Strap | 23054-01 |
| B | 21-210 | Crankshaft Timing Pin | 23054-02 |
| C | 303-620, 21-163 | Crankshaft Timing Pin | 23054-03 |
| D | | Shim Set (2) | 23060-F |
| E | 303-193, 21-104 | Crankshaft Timing Pin | 23060-S |
| F | 23-019 | Injection Pump Setting Pin and Washer 6mm | 23060-01 |
| G | 21-123 | Setting Pin 9.5mm | 23060-04 |
| H | 23-020 | Setting Pin 12.7mm | 23060-07 |
| I | 21-168/303-393 | Flywheel Locking Tool | 23060-10 |
| J | 23-047 | Injection Pump Setting Pin 15.4mm | 23061-01 |
| K | 21-105 | Camshaft Setting Bracket | 23062-B |
| L | 23-019 | Injection Pump Pulley Timing Pin 6mm | 23069-11 |
| M | 310-084, 23-058 | Tensioner Locking Tool | 23069-12 |
| N | 23-029 | Setting Pin 8.25mm | 23069-35 |
| O | 310-085, 23-059 | Crankshaft Locking Tool | 23161-03 |
| P | 303-393-02 | Long Tooth Block | 23060-10c |

## 23360 NEW




**Engine Timing Tool Set – Ford**

This set includes fourteen new tool developed since the introduction of set 23160 and covers more petrol and diesel applications including: 1.6 Ti VCT, on Focus and C Max (03-) with engine code HXDA and Fiesta/Fusion 1.4/1.6 TDCi, and Mondeo, S Max, Transit Connect and Tourneo Connect 1.8 TDdi/TDCi and 2.0 TDCi

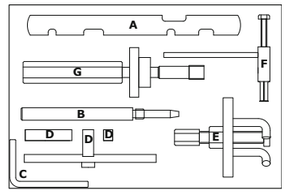
| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 303-748 | Crankshaft Timing Pin | 23054-05 |
| B | 21-162B, 303-367, 303-376B | Camshaft Alignment Plate | 23054-06 |
| C | 21-104, 303-193 | Crankshaft TDC Alignment Pin | 23060-S |
| D | 23-019 | Camshaft Alignment Pin | 23060-02 |
| E | 21-168, 303-393/01/02 | Flywheel Locking Tool and Adaptors | 23060-10 |
| F | 303-735 | Camshaft Sprocket Timing Pin | 23060-15 |
| G | 21-229, 303-651 | Camshaft Sprocket Puller | 23060-16 |
| H | 23-067, 303-095 | Fuel Sprocket Remover | 23060-17 |
| I | 21-230, 303-652 | Chain Cover Alignment Tool | 23060-18 |
| J | 303-1059 | Flywheel Timing Pin | 23060-19 |
| K | 303-1097 | Camshaft Sprocket Locking Tool | 23060-21 |
| L | 303-1054 | Tensioner Pulley Locking Pin | 23161-94 |



## 23260

**Engine Timing Tool Kit – Ford**

Engine Timing Kit for 1.8 TDDI/TDCI engines driven by Cam Chain and Cam belt.



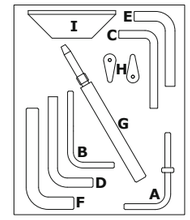

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 21-162B/303-367/303-376 | Camshaft Alignment Strap | 23054-06 |
| B | 303-193 / 21-104 | Crankshaft TDC Setting Screw | 23060-S |
| C | 23-019 | Camshaft Alignment Pin | 23060-02 |
| D | 21-168/303-393 | Flywheel Locking Tool | 23060-10 |
| E | 303-651/21-229 | Camshaft Sprocket Puller | 23060-16 |
| F | 23-067 / 303-095 | Fuel Injection Sprocket Remover | 23060-17 |
| G | 21-230 / 303-652 | Chain Cover Alignment Tool | 23060-18 |

## 23060

**Timing Tool Set – Ford**

For use on popular Ford diesel engines including 1.6, 1.8 and 2.5 DI

Essential for holding the camshaft and crankshaft in timing position when changing the timing belt, camshaft or servicing the injection pump. Presented in a practical storage case.

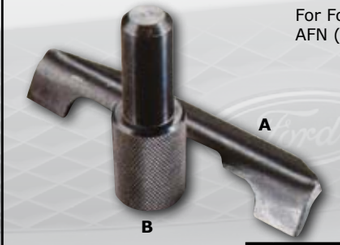



| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 23-019 | 6mm. Setting Peg with washer | 23060-01 |
| B | 0178b | 6mm. Setting Peg | 23060-02 |
| C | 0178c/d, 9767.94,0153M | 5/16" Setting Peg | 23060-03 |
| D | 21-123, KM6011,5711-TB | 3/8" Setting Peg | 23060-04 |
| E | 0178A | 10mm. Setting Peg | 23060-05 |
| F | 23-020 | 12mm. Setting Peg | 23060-06 |
| G | 21-104 | Setting Screw | 23060-S |
| H | | Shim Set (2) | 23060-F |
| I | 2065A,21-105 | Setting Bracket | 23061-B |

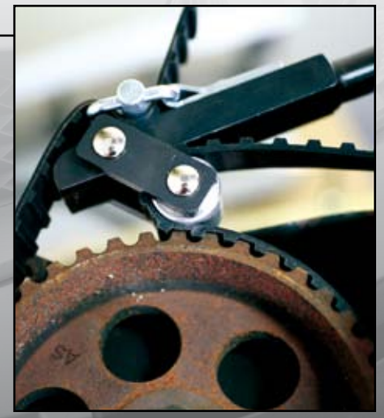
## 23061-20

**Camshaft Locking Bracket and Setting Spigot**

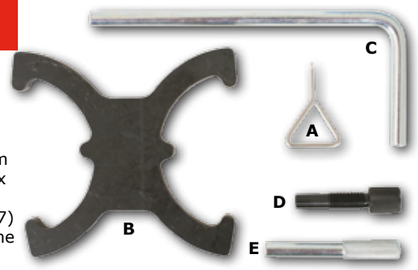
For Ford Galaxy 1.9 DTi with engine code AFN (97-00)




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 2065A | Camshaft Setting Bracket | 23061-B |
| B | 2064 | Injection Pump Locking Pin | 23061-01 |



## 23181

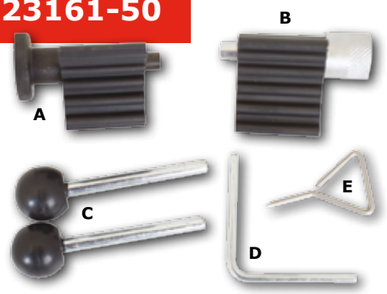



**Engine Timing Tool Kit – Ford Focus CMax 1.6 Ti-VCT**

An essential five piece kit for replacing the Cam belt on Ford Focus/CMax 1.6 Ti-VCT with engine codes HXDA (2003-2007) plus 2.0 TDCi with engine codes G6DA and G6DB

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 303-1054 | Tensioner Pulley Locking Pin | 23161-94 |
| B | 303-1097 | Camshaft Sprocket Locking Tool | 23060-21 |
| C | 303-1059 | Flywheel Timing Pin | 23060-19 |
| D | 303-735 | Camshaft/Crankshaft Timing Pins | 23060-15 |
| E | 303-748 | Crankshaft Locking Tool | 23054-05 |

## 23161-50




MULTI-USE

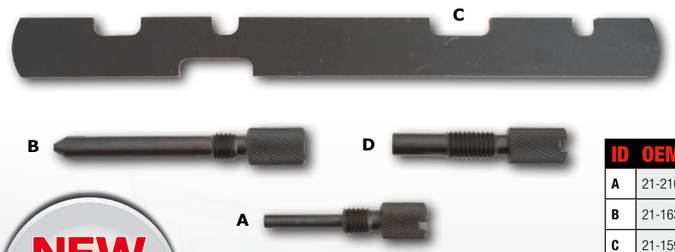
See VW, Audi Section

**Engine Timing Tool Set**

A selection of tools required for Ford Galaxy 1.9 TDi and TDi PD with hydraulic (ANU/ANY) or mechanical tensioners (ANU/SASZ/AUY)

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 310-085/T10050 | Crankshaft Sprocket Locking Tool | 23161-03 |
| B | T10100 | Crankshaft Sprocket Locking Tool | 23161-03C |
| C | 3359/T20102 | Injection Pump Locking Pin (2) | 23069-11 |
| D | T10060/A | Auxilliary Drive Belt Tensioner Locking Pin | 23161-96 |
| E | 303-1054 | Tensioner Pulley Timing Pin | 23161-94 |

## 23054-50




NEW

**Engine Timing Tool Set – Ford**

For use on many current Ford models including:

Fiesta, Puma, XR2i 1.25/1.4/1.6 RS1800 1.8 16v Escort/Orion 1.6/1.8 16v Mondeo 1.6/1.8/2.0 16v Puma/Focus 1.7 Zetec Focus 1.4/1.6/1.8/2.0 16v Cougar 2.0 16v Zetec Focus/CMax 1.6 Ti-VCT Mazda 121 1.25

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 21-210, 303-507 | Crankshaft Timing Pin | 23054-02 |
| B | 21-163, 303-620 | Crankshaft Timing Pin | 23054-03 |
| C | 21-159, 303-748 | Crankshaft Timing Tool | 23054-05 |
| D | 21-162B, 303-367, 303-376B | Alignment Plate | 23054-06 |

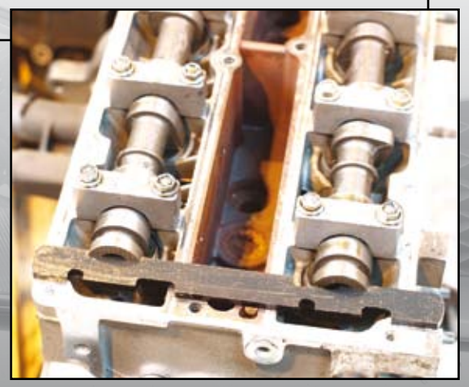
## 23054

**Twin Cam Timing Set – Ford**

Specifically designed or use on Ford 16v engines. The Locking Strap (23054- 01) fits across both camshafts on Ford Fiesta 1.25/1.4 Puma 1.4/1.7 Mondeo 1.6/1.8/2.0 plus Mazda 121 1.25 and enables the timing position to be locked whilst servicing the timing belt.

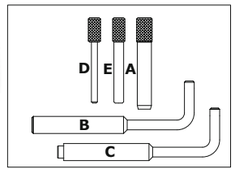
The Timing Pin 23054-02 replaces a blanking plug and enables the Crankshaft to be positioned at PMH.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 21-210, 303-507 | Crankshaft Timing Pin | 23054-02 |
| B | 21-162B | Camshaft Alignment Plate | 23054-01 |





## 23159




**Engine Timing Tool Set – Ford Duratorq**

This up-grade set enables the correct engine timing to be accomplished when servicing Ford Duratorq, diesel engines including:

1.4 D/TDCi Fiesta and Fusion with timing belt.

2.0 D/Di Mondeo and Transit van with timing chain.

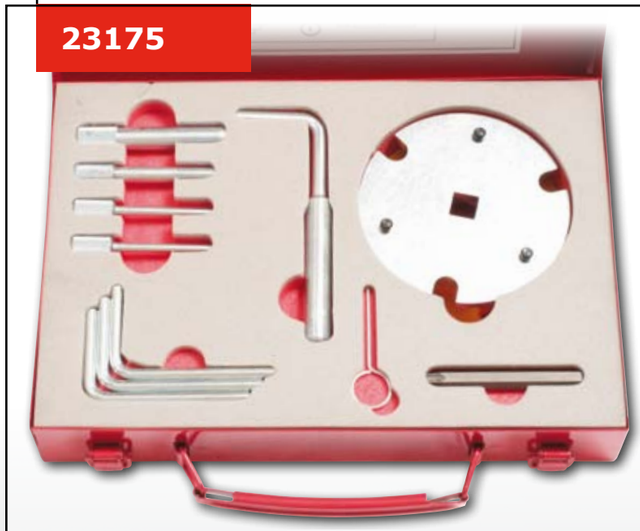
2.4 D/Di/TDDi (Puma) Transit van with timing chain.

MULTI-USE

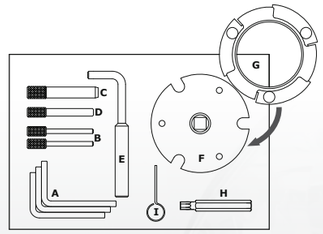
See Volvo Section

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 21-262, 303-734 | Flywheel Locking Pin | 23060-11 |
| B | 21-234/251 | Flywheel Locking Pin | 23060-12 |
| C | 21-251, 303-698 | Flywheel Locking Tool | 23060-14 |
| D | 21-260, 303-732 | Crankshaft/Fuel Pump Alignment Pin | 23069-04 |
| E | 21-263, 303-735 | Camshaft Sprocket Locking Pin | 23069-25 |

## 23175



| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | | Camshaft Sprocket Alignment Pin (3) | 23060-02 |
| B | 21-260, 303-732 | Crankshaft/Fuel Pump Alignment Pin (2) | 23069-04 |
| C | 21-262, 303-734 | Flywheel Locking Pin | 23060-11 |
| D | 21-263, 303-735 | Camshaft Sprocket Locking Pin | 23069-25 |
| E | 21-234 | Flywheel Locking Pin | 23060-12 |
| F | | Fuel Pump Cover Removal Tool | 23175-01 |
| G | 303-1151 | Locking Tool, Fuel Injection Pump Sprocket | 23175-02 |
| H | 310-083A | Key for TX45 Torx Fasteners | 23002-45C |
| I | | Chain Tensioner Locking Pin | 23161-06 |




**Timing Tool Set – Ford**

This kit contains the necessary special pins required to lock the camshaft sprocket, flywheel and align the crankshaft and fuel pump when checking the valve timing on 2.0/2.4 chain driven engines. Also used when replacing the timing belt on 1.4/1.6 engines.

Additional tools are included to enable the fuel injection pump removal and replacement on Ford 2.0/2.4 Duratorq Di/TDDI and 2.2/2.4 Duratorq TDCI diesel engines.

## 23044-03

**Tensioner Lever (Two Pin Wrench)**

This tensioner lever suits both mechanical and hydraulic tensioners as used on.

Ford Galaxy 1.9 TDi PD with engine codes ANU, AUY (00-02) and ASZ (02-06)

| OEM Ref | Description | Part |
|---|---|---|
| 303-1053 | Two Pin Wrench | 23044-03 |

## 23058-00 MASTER KIT

**Engine Timing Tool Set – Opel/Vauxhall/Isuzu**

The most comprehensive compilation set of engine timing tools to suit European General Motor's Opel/Vauxhall and Isuzu car and van range.

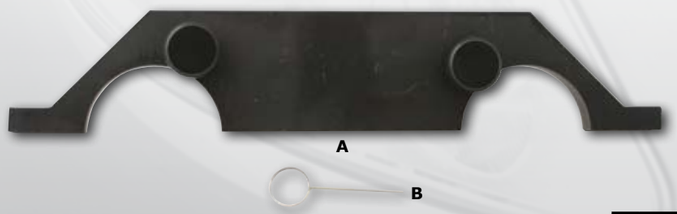
With many camshaft aligning tools, tensioning tools, crankshaft alignment tools and flywheel locking tools suitable for use on petrol and diesel engines including and Eco-Tec models:

**Petrol** – 1.2/1.3/1.4/1.6, 1.0 12v/1.2 16v/1.4/1.6 16v/1.8/2.0 16v

**Diesel** – 1.5D/TD, 1.6/1.7D/TD, 2.0/2.2 Di, 2.0/2.4 TDi, 3.0/3.1 TD

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | KM 666 | Tensioner Adjuster | 23046 |
| B | KM 8070 | Camshaft Setting Bracket | 23052 |
| C | KM 852 | Camshaft Locking Tool | 23058-01 |
| D | KM 853 | Camshaft Locking Tool | 23058-02 |
| E | KM 517B | Flywheel Locking Tool | 23058-03 |
| F | KM 6011 | Flywheel Locking Pin Ø 9.5mm | 23060-04 |
| G | | Locking Screw M8 x 40mm | 23061-04 |
| H | | Locking Screw M6 x 30mm | 23061-06 |
| I-L | KM 661-1 | Camshaft Position Tool | 23064 |
| M | KM 571-B | Dial Test Indicator 51 Dia x 10 x 0.01mm | 23070 |
| N | KM 661-2 | Camshaft Position Locking Tool | 23163 |
| O | KM 851 | Flywheel TDC Indicator | 23164-01 |
| P | KM 951 | Flywheel Locking Pin | 23164-02 |
| Q | KM 652 | Flywheel Locking Tool | 23164-03 |
| R | KM 911 | Flywheel Locking Tool | 23164-04 |
| S | KM 933 | Timing Adjustment Wrench | 23164-05 |
| T | KM 933 | Bracket for Timing Adjustment Wrench | 23164-06 |
| U | KM 927 | Injection Pump Setting Pin | 23164-07 |
| V | KM 929 | Flywheel Locking Pin | 23164-08 |
| W | KM 932 | Camshaft Locking Tool | 23164-09 |
| X | KM 953 | Camshaft Locking Tool | 23164-11 |
| Y | KM 952 | Flywheel Locking Pin | 23164-12 |
| Z | KM 954 | Camshaft Position (CMP) Sensor Disc Setting Tool | 23164-14 |
| AA | KM 955 | Tensioner Retaining Pin 2.5mm Dia | 23164-15 |
| AB | KM 955 | Tensioner Retaining Pin 4.0mm Dia | 23164-16 |

## 23164-21




**Timing Tool Set – General Motors**

This set of tools includes the Camshaft Locking tool and tensioner locking pin for Astra-G, Vectra-B, Vectra-C, Signum, VX220 and Zafira-A with 2.2 chain driven engines with codes: Z22SE, Z22YH

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | KM 6148 | Camshaft Locking Tool | 23164-22 |
| B | KM 6077 | Tensioner Pin | 23164-23 |



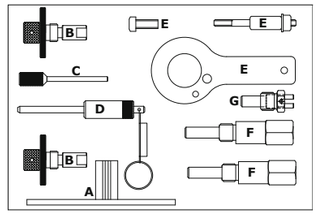
## 23174

**Applications include:**
Agila, Corsa-C, Combo-C (03-07) with Z13DT engines and Tigra-B, Meriva, Astra-H (04-07) with Z13Dt, Z13DTJ, Z13DTH plus Corsa-D (06-07) with Z13DTH, Z13DT engines.

**Timing Tool Set – Opel/Vauxhall 1.3/1.9 TDCi**

This set of tools enables the correct engine timing to be made when servicing 1.3/1.9 CDTi chain driven diesel engines.

Also available in modular packaging No. **23174-PK**



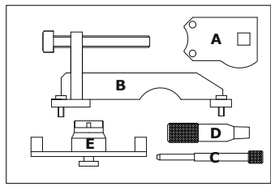

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 898 000 | Flywheel Locking Tool | 23111-06 |
| B | EN-46781 | Camshaft Alignment Tool (2) | 23171-02 |
| C | KM 6130/KM6349 | Auxilliary Drive Belt Tensioner Holding Pin | 23174-01 |
| D | EN-46785 | Crankshaft Alignment Pin c/w Retention Spring | 23174-02 |
| E | EN-46788/1 860 905 000 | Crankshaft Alignment Tool | 23174-03 |
| F | EN-46789 | Camshaft Alignment Tool (2) | 23174-04 |
| G | EN-46789-100 | Camshaft Alignment Screw for use when High Pressure Pump remains fitted | 23174-05 |

## 23167

**Timing Tool Set – Opel/Vauxhall**

For 2.0/2.2 DTi engines fitted to Astra-G (98-06), Vectra-B/C (97-05), Signum (03-05), Omega-B (98-03), Zafira-A (99-05), Sintra (98-99) and Frontera-B (98-04) with Z20DTH, Z20DTL, Z22DTH, Z22DTR engine codes.

Also available in modular packaging No. **23167-PK**




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | KM933 | Timing Adjustment Wrench | 23164-05 |
| B | KM933 | Timing Adjustment Bracket Assembly | 23164-06 |
| C | KM927 | Injection Pump Timing Pin (Green) | 23164-07 |
| D | KM929 | Crankshaft TDC Setting Pin (Blue) | 23164-08 |
| E | KM932 | Camshaft Setting Plate | 23164-09 |

## 23047

**Timing Tool Kit - V6 Engines**

A set of timing tools for the V6 belt driven engine on 2.5/2.6/3.0 engines with raised edge on the tensioner pulley. Fitted to Vauxhall/Opel Vectra-B, Omega-B, Sintra, Calibra with engine codes X25XE, X30XE, Y26SE, Y32SE

MULTI-USE

See Saab Section

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | KM800-10 | Crankshaft Locking Tool | 23047-01 |
| B | KM800-20 | Camshaft Timing Gauge | 23047-02 |
| C | KM800-2 | Camshaft Locking Tool (RH) (Green) | 23047-03 |
| D | KM800-1 | Camshaft Locking Tool (LH) (Red) | 23047-04 |
| E | KM800-30 | Belt Holding Wedge | 23047-05 |

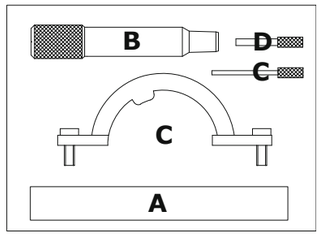
## 23166

**Timing Tool Set – General Motors**

Specifically designed for 1.0 12v X10 XE and 1.2 16v X12XE Ecotec engines fitted to Corsa and Agila models.

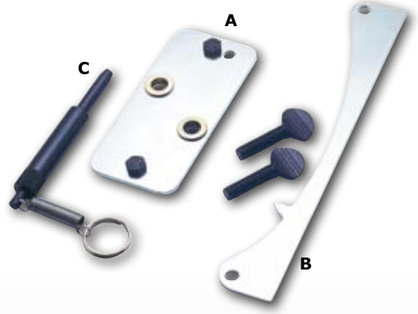
Essential tools necessary when servicing and timing these chain driven engines, which include a twin-cam setting tool, crankshaft TDC setting pin, camshaft sensor position gauge, and two timing chain tensioner retaining pins.

Also available in modular packaging No. **23166-PK**




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | KM-953 | Camshaft Timing Tool | 23164-11 |
| B | KM-952 | Crankshaft TDC Setting Pin | 23164-12 |
| C | KM-954 | Timing Disc Position Gauge | 23164-14 |
| D | KM-955 | 2.5mm Tensioner Retaining Pin | 23164-15 |
| E | KM-955 | 4.0mm Tensioner Retaining Pin | 23164-16 |

## 23165




**Diesel Engine Timing Tool – Upgrade Set – General Motors**

For use on post 1997 diesel engines where the Locking Disc No. 23063 is no longer suitable due to the deletion of the threaded location holes.

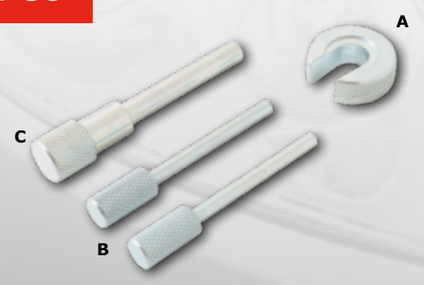
23163 Camshaft Locking Tool can be used in conjunction with Camshaft Position Tool No. 23064 and enables the timing position of the Camshaft to be held whilst the Timing Belt is attached.

Flywheel Timing Bracket (23164-01) is attached to the flywheel housing to give the position against which to align the flywheel top dead centre mark.

Flywheel Locking Pin (23164-02) is suitable for use on models which have a two part oil pan. The pin is inserted through the bell housing into the flywheel. The spring and ring prevent the pin from dropping out by being placed over the head of an adjacent bolt.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | KM 661-2 | Camshaft Locking Tool | 23163-01 |
| B | KM851 | Flywheel TDC Indicator | 23164-01 |
| C | KM 951 | Flywheel Locking Pin | 23164-02 |

## 23061-80




MULTI-USE

See PSA, Fiat, Renault

**Diesel Engine Timing Tool Kit**

A set of tools for 2.5/2.8D engines in the following applications:

Vauxhall/Opel Arena, Movano

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 1 860 638 000 | Tensioning Tool | 23101 |
| B | 0132AB | Camshaft Locking Pin (2) | 23069-04 |
| C | MOT1054, MOT863, MOT861 | TDC Timing Pin | 23069-23 |



## 23164-03

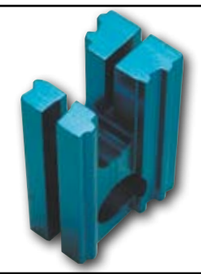
**Flywheel Locking Tool**

A flywheel locking for for use on Movano 2.2/2.5 DTi with G9T 720/750 and G9U 724/726/750/754 and G9U A720 engines built between 2000 and 2006.

Also used on Nova, Corsa-A 1.2/1.3/1.4/1.6 and Nova GTE, Corsa-A GSi

| OEM Ref | Description | Part |
|---|---|---|
| KM652 | Flywheel Locking Tool | 23164-03 |

## 23058-01



**Twin Camshaft Sprocket Locking Tool – Blue**

Twin Camshaft Locking Tool used on belt driven 1.8 engines fitted to Tigra-B between 2004 and 2008 with engine codes Z18XE. Also fitted to Frontera, Frontera-B and Sintra-A, Omega-B 2.2 16v with raised edge on the tensioner pulley on X22SE, X33XE, YEESE, Y22XE Z22XE engines from 1995 to 2004.

| OEM Ref | Description | Part |
|---|---|---|
| KM852 (Blue) | Twin Camshaft Locking Tool | 23058-01 |

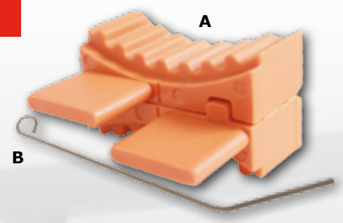
## 23058-02

**Twin Camshaft Sprocket Locking Tool – Gold**

Twin Camshaft Sprocket Locking Tool used on belt driven Omega-B 2.2 16v with X22SE, X22XE, Y22SE, Y22XE, Z22XE engines (95-04) and Astra-G 2.0 16v and Vectra 1.8/2.0 16v with X18XE, C20SEL, X20XEV engines (95-00)

| OEM Ref | Description | Part |
|---|---|---|
| KM853 (Gold) | Twin Camshaft Sprocket Locking Tool | 23058-02 |

## 23058-04




**Twin Cam Sprocket Locking Tool – Brown**

For Vauxhall/Opel Astra-G, Astra H, Meriva/VXR, Zafira-B 1.6 16v (03-07) with engine codes Z16LET, Z16XEP.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | KM6340 | Camshaft Sprocket Alignment Tools (2) | 23058-06 |
| B | KM6333 | Tensioner Pin | 23058-05 |

## 23164-04

**Flywheel Locking Tool**

Flywheel locking tool for use on Tigra-B 1.8 with Z18XE engine built between 2004 and 2008. Also used on Corsa-C/Vectra 1.2/1.3/1.4/1.6 and Nova GTE, Corsa-A GSi.

Plus Saab 9-3 1.8i with engine code Z18XE (96-05)

| OEM Ref | Description | Part |
|---|---|---|
| KM911 | Flywheel Locking Tool | 23164-04 |

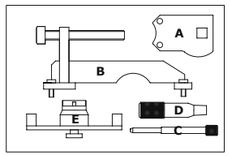
## 23167 — SAAB 2.2 TID

**Timing Tool Set – Saab**

For 9-3 2.2 TiD (98-04), 9-5 2.2 TiD (02-07) with chain driven engine code D223L.

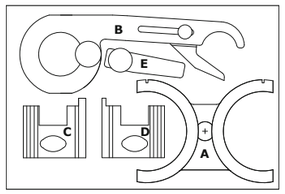
MULTI-USE

See Opel Section




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 83 95 394 | Timing Adjustment Wrench | 23164-05 |
| B | 83 95 394 | Timing Adjustment Bracket Assembly | 23164-06 |
| C | 83 95 337 | Injection Pump Timing Pin | 23164-07 |
| D | 83 95 352 | Crankshaft TDC Setting Pin | 23164-08 |
| E | 83 95 386 | Camshaft Setting Plate | 23164-09 |

## 23047 — SAAB 3.0 V6



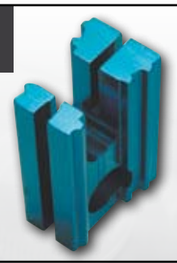

**Timing Tool Set – Saab**

A set of timing tools for the 215 3.0 V6 engine fitted to Saab 9-5 3.0 (98-03) with engine code B308E.

OEM Ref. for complete set 83 95 006

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | KM800-20 | Crankshaft Timing Gauge | 23047-02 |
| B | KM800-10 | Camshaft Locking Tool | 23047-01 |
| C | KM800-2 | Camshaft Locking Tool (LH) Green | 23047-03 |
| D | KM800-1 | Camshaft Locking Tool (RH) Red | 23047-04 |
| E | KM800-30 | Belt Holding Wedge | 23047-05 |

## 23058-01 — SAAB 1.8I



**Timing Tool Set – Saab**

For use on Saab 9-3 1.8i (96-05) with Z18XE engine code, 23069-04 also required Auxiliary Drive Belt Tensioner Tool.

| OEM Ref | Description | Part |
|---|---|---|
| KM852 | Twin Camshaft Sprocket Locking Tool | 23058-01 |

## 23164-04 — SAAB 1.8I

**Flywheel Locking Tool – Saab**

For use on Saab 9-3 1.8i (96-05) with Z18XE engine code

| OEM Ref | Description | Part |
|---|---|---|
| KM911 | Flywheel Locking Tool | 23164-04 |



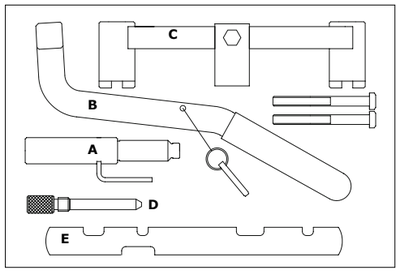
## 23069-20

**Engine Timing Tool Kit – Volvo**

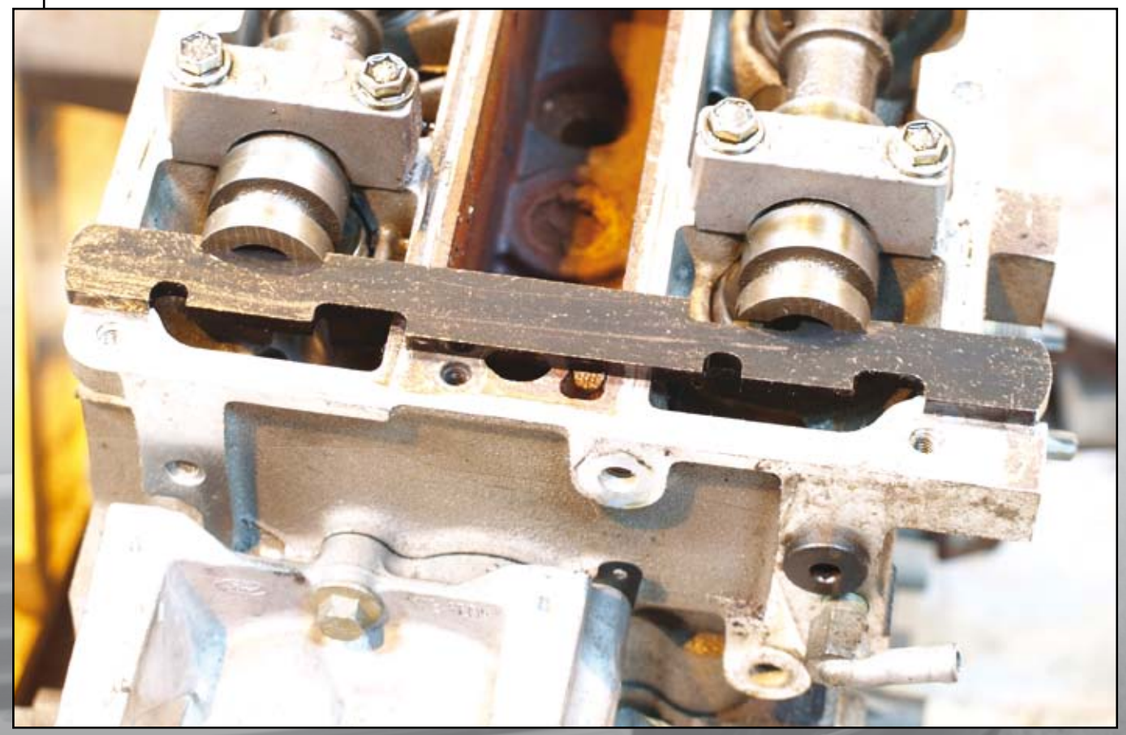
This tool kit enables the engine timing position to be held when replacing the timing belt on Volvo models including:

C30, S40, V50 1.6
C70 1.6/1.8/2.9/1.9 Turbo
S40 1.6/1.8/2.0/1.9 Turbo
V40 1.5/1.8/2.0/1.9 Turbo
S60, S70, S80

Supplied in metal storage tin.




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | MOT 1340 | Crankshaft Timing Pin | 23069-41 |
| B | MOT 1348 | Tensioning Tool (Auxiliary Drive Belt) | 23069-45 |
| C | MOT 1337 | Camshaft Setting Tool | 23069-47 |
| D | 999-7201 | Crankshaft Aligning Tool | 23054-03 |
| E | 999-7151 | Camshaft Aligning Tool | 23054-06 |



## 23045

**Timing Belt Tool Set**

Suitable for use on Hyundai and Mitsubishi and required when replacing the timing belt.

23045 01 Tensioning Bolt is inserted into the belt casing to make contact with the tensioner arm. For use on Hyundai Lantra 1.6, 1.8 16V, Sonata 2.0 16v and Mitsubishi Colt/Lancer 1600 DOHC

23045 02 Tension Wrench is 1/4" square drive and required during installation of the timing belt when the tensioner is slackened.

For use on Hyundai Lantra 1.6,1.8 16V, Sonata 2.0 16V and Misubishi Colt/Lancer 1.8 16V DOHC, Carisma 1.8 16V, Galant/Spacewagon 2.0 16V, Galant 2.0, 2.5 V6 24V, Sigma 3.0 V6

**HYUNDAI**

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 09244-28000 | Tensioning Bolt | 23045-01 |
| B | 09244-28000 | Tensioning Wrench | 23045-02 |

**MITSUBISHI**

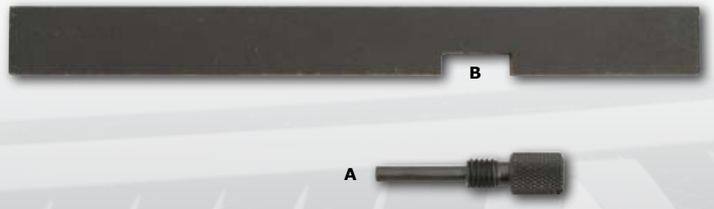
| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | MD998767 | Tensioning Bolt | 23045-01 |
| B | MD998767 | Tensioning Wrench | 23045-02 |

## 23054

**Twin Cam Timing Set – Mazda**

Specifically designed or use on Mazda 16v engines. The Locking Strap (23054- 01) fits across both camshafts on Mazda 121 1.25 and enables the timing position to be locked whilst servicing the timing belt.

The Timing Pin 23054-02 replaces a blanking plug and enables the Crankshaft to be positioned at PMH.



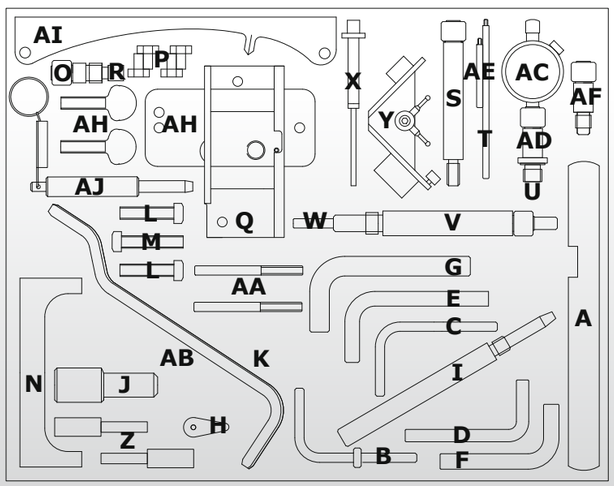

**MAZDA**

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 21-210, 303-507 | Crankshaft Timing Pin | 23054-02 |
| B | 21-162B | Camshaft Alignment Plate | 23054-01 |

**This section includes tool kits for Diesel and Petrol engines and covers a multitude of manufacturers in each set.**

Also included are tools for setting the fuel pump timing on Bosch EP/VE, Kikki and Nippon Denso Fuel Pumps.

## 23081-C — UNIVERSAL-DIESEL ENGINES




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 21-162, 303-376, 303-367, 9997151, 49 JE01 054 | Camshaft Setting Bracket | 23054-01 |
| B | 23-019/0178B | Ø6mm Setting Peg C/W Washer | 23060-01 |
| C | 0178B | Ø6mm Setting Peg | 23060-02 |
| D | 0178C/D, 9767.94,0153M | Ø8mm Setting Peg | 23060-03 |
| E | 21-123, KM6011, 5711-TB | Ø9.5mm Setting Peg | 23060-04 |
| F | 0178A | Ø10mm Setting Peg | 23060-05 |
| G | 23-020 | Ø12.7mm Setting Peg | 23060-07 |
| H | Universal | Shim Set (2) | 23060-F |
| I | 21-104 | TDC Setting Screw | 23060-S |
| J | 23-047, U20003, 2064, 5193, 15-046 | Setting Spigot | 23061-01 |
| K | 7014-TJ, 1 860 863 000, 0188D | Crankshaft Setting Pin 8mm | 23061-02 |
| L | Universal | Locking Screw M8 x 35mm (2) | 23061-03 |
| M | Universal | Locking Screw M8 x 40mm | 23061-04 |
| N | Universal | Setting Bracket | 23062-B |
| O | Universal | Adaptor Assembly | 23064-01 |
| P | Universal | M6 Setscrew (2) | 23064-04 |
| Q | Universal | Mounting Bracket Assembly | 23064-06 |
| R | Universal | Special Tip | 23064-11 |
| S | Universal | Adaptor Assembly M8 (Bosch) | 23065-01 |
| T | Universal | Extension 99mm | 23065-03 |
| U | Universal | Convertor M8-M12 | 23065-05 |
| V | Universal | TDC Adaptor Assembly M14 (Peugeot XUD) | 23066-01 |
| W | Universal | Extension | 23066-03 |
| X | Universal | Probe | 23067-02 |
| Y | Universal | Mounting Bracket Assy for CAV | 23067-10 |
| Z | LRT12-058, 18G1523 | Crankshaft/Camshaft Timing Pin (2) | 23069-01 |
| AA | 18G1549 | Injection Pump Holding Pin (2) | 23069-02 |
| AB | 18G1632 | Crankshaft Setting Pin 6mm | 23069-03 |
| AC | KM571A, 3313 | Dial Test Indicator Ø41 x 0-8 x 0.01 | 23072 |
| AD | Universal | Short Adaptor Assembly M8 (Bosch) | 23076-01 |
| AE | Universal | Extension 40.8mm | 23076-02 |
| AF | Universal | Adaptor Assembly M10 (Bosch) | 23077-01 |
| AH | KM661-2 | Camshaft Locking Tool – G.M. | 23163-01 |
| AI | KM851 | Flywheel TDC Setting Bracket – G.M. | 23164-01 |
| AJ | KM951 | Flywheel Locking Pin – G.M. | 23164-02 |

MULTI-USE

Universal

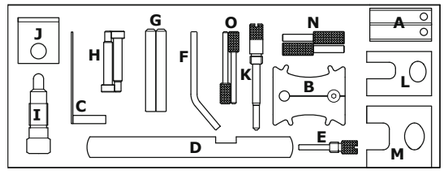
**Universal Diesel Engine and Fuel Pump Timing Tool Kit**

For use on the majority of popular diesel engines to enable the pulleys of both camshaft and crankshaft to be locked in place whilst servicing the injection pump, camshaft and making cam-belt replacement.

Also suitable for setting the timing on many popular diesel fuel pumps including Bosch EP/VE rotary and Kikki, Nippon Denso equivalents, Lucas, CAV and Rotodiesel top entry and a special TDC adaptor for the Peugeot XUD engine range.



## 23049 — UNIVERSAL - PETROL V ENGINES




| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 18G 1570 | Camshaft Sprocket Locking Tool | 23050 |
| B | 18G 1524 | Camshaft Sprocket Locking Tool | 23051 |
| C | 0132X, 4507-TJ | Tensioning Tool | 23053 |
| D | 21-162B | Camshaft Locking Strap | 23054-01 |
| E | 21-210 | Crankshaft Timing Pin | 23054-02 |
| F | 0132 QZ, 4507-TA | Crankshaft Setting Pin | 23055-01 |
| G | 0132 R, 7014TN, 4507-TB | Camshaft Locking Pins (2) | 23055-02 |
| H | 7014-TM, 0153AA. 0153G | Camshaft Locking Pins (2) | 23055-03 |
| I | 3242 | Crankshaft Locking Tool | 23056-01 |
| J | 3458 | Camshaft Aligning Tool | 23056-02 |
| K | 18G 1671 | Balancer Shaft Locking Pin | 23057 |
| L | KM 852 | Camshaft Sprocket Locking Tool | 23058-01 |
| M | KM 853 | Camshaft Sprocket Locking Tool | 23058-02 |
| N | 18G 1523 | Camshaft Locking Pins (2) | 23069-01 |
| O | 18G 1580 | Camshaft Locking Pins (2) | 23069-04 |

**Timing Tool Set for 'V' Twin Cam Engines**

Suitable for use on petrol fueled Citroën, Honda, Ford, Mazda, Opel, Rover and Vauxhall cars and some diesel fueled Audi and Ford cars.

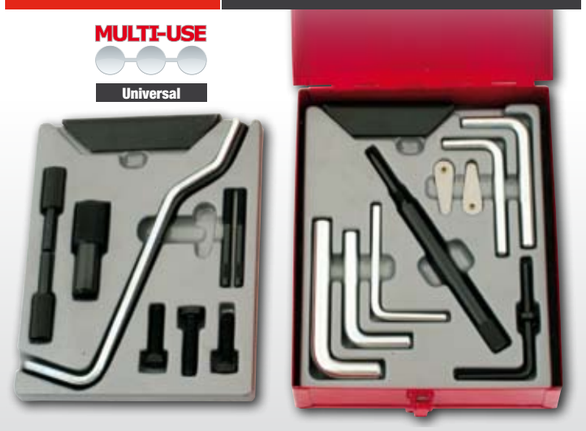
The set includes six camshaft pulley locking tools.

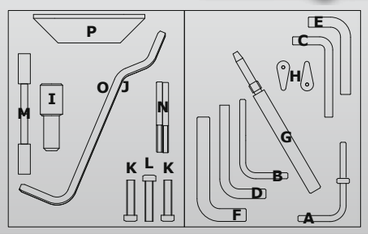
Supplied in storage box.

## 23062 — UNIVERSAL - DIESEL ENGINES

MULTI-USE

Universal






**Diesel Engine Timing Tools**

Suitable for use on Audi, Citroën, Ford, Peugeot, Renault, Rover, Volvo and Volkswagen cars.

Contains parts as supplied in both 23060 and 23061

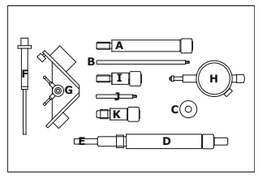
| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 23-019 | 6mm Setting Peg with Washer | 23060-01 |
| B | 0178B | 6mm Setting Peg | 23060-02 |
| C | 23-029 | 5/16" Setting Peg | 23060-03 |
| D | 21-123, KM6011, 5711-TB | 3/8" Setting Peg | 23060-04 |
| E | 0178A | 10mm Setting Peg | 23060-05 |
| F | 23-020 | 12.7mm Setting Peg | 23060-07 |
| G | 21-104 | Setting Screw | 23060-S |
| H | Use with P | Shim Set (2) | 23060-F |
| I | 23-047, U20003, 2064, 5193, 15-046 | Setting Spigot | 23061-01 |
| J | 7014-TJ, 1 860 863 000, 0188D | Cranked Setting Pin | 23061-02 |
| K | Universal | Setting Screw M8 x 35mm (2) | 23061-03 |
| L | Universal | Setting Screw M8 x 40mm (1) | 23061-04 |
| M | LRT12-058, 18G-1523 | Camshaft/Crankshaft Locking Pin (2) | 23069-01 |
| N | 18G-1549 | Injection Pump Locking Pin M6 (2) | 23069-02 |
| O | 18G1632 | Cranked Setting Pin 6mm | 23069-03 |
| P | 2065A/21-105 | Setting Bracket | 23061-B |

## 23075

**Diesel Fuel Pump Timing Set**

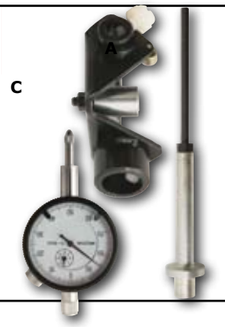
Suitable for setting the timing on many popular diesel engines which are fitted with fuel pumps including Bosch EP/VE rotary, Kikki, Nippon Denso, CAV Rotodiesel found on top entry and Peugeot XUD engines.

Available in modular packaging No. **23075-PK**




| ID | Description | Part |
|---|---|---|
| A | M8 Adaptor Long | 23065-01 |
| B | Extension Long - 99mm | 23065-03 |
| C | Thread Convertor M8-M12 | 23065-05 |
| D | Piston Height Adaptor M14 | 23066-01 |
| E | Extension | 23066-03 |
| F | Probe | 23067-02 |
| G | Mounting Bracket Assembly | 23067-10 |
| H | Dial Test Indicator 41 x 8 x 0.1mm | 23072 |
| I | M8 Adaptor Short | 23076-01 |
| J | Extension - Short 40.8mm | 23076-02 |
| K | M10 Adaptor - Short | 23077-01 |

## 23065

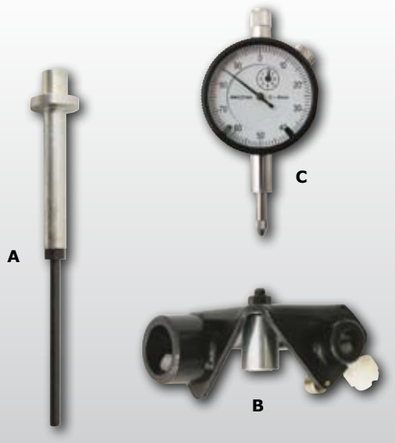



**Diesel Fuel Pump Timing Tool**

For use on Bosch VE, Kikki and Nippon Denso Fuel Pumps

| ID | Description | Part |
|---|---|---|
| A | Dial Test Indicator 41mm x 8mm x 0.1mm | 23072 |
| B | Threaded M8 Adaptor | 23065-01 |
| C | Dti Extension | 23065-03 |

## 23067




**Diesel Pump Timing Tool**

For CAV Top Entry fuel pumps as used on:

Citroën AX 1.4 RD, TGD, DTR; BX 1.7TGD, DTR, TZD, Turbo; BX 1.9 TGD, TZD; C15 van, C25 D 1.9, CX 2.5D 2.5 and Turbo; Visa 1.7D, XM 2.1TD, 2.2D; ZX 1.4.

Dacia Duster.

Fiat Uno and Tipo 1.7

Ford Sierra and Sapphire 2.3, Granada and Scorpio 2.5D/Turbo.

Leyland Daf 300 2.5D/Turbo.

Peugeot 106 1.4 D XND, XRD; Graduate, 205 D, XLD, GLD, GRD/Turbo, 305 1.7/1.9, 309 D, GRDT, GLD, GDT, 309 1.9, 405 GRDT, GRD, 405 1.7 Turbo, 405 1.9, 406 1.6/1.8/2.0/Turbo, 505 2.5 D/Turbo, 605D/Turbo, 605 2.1, JS Express 1.9/2.5/Turbo.

Renault 19D, Chamade D, 21 1.9, Trafic, Master 2.1

Rover Metro 1.4D, 218SD, 218, 418 SLD/Turbo, 418 GSD Turbo.

Vauxhall/Opel Kadet, Astra and Belmont 1.7D, Astramax/Astravan 1.7D, Cavalier 1.7D, Vectra 1.7D.

| ID | Description | Part |
|---|---|---|
| A | Probe | 23067-02 |
| B | Mounting Bracket Assembly | 23067-10 |
| C | Dial Test Indicator 41 x 8 x 0.1mm | 23072 |

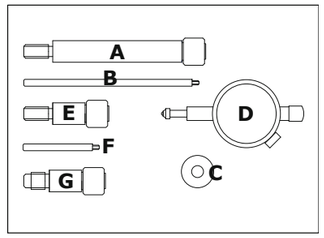


## 23076

This module packed set has been up-graded to include the newer M10 adaptor to suit diesel fuel pumps fitted to Ford Transit vans.

Also suitable for use on:

Alfa Romeo, Audi, Bedford, BMW, Daihatsu, Fiat, Ford, Isuzu, Iveco, Lancia, Land Rover, Mazda, Mitsubishi, Nissan, Renault, Rover and Volkswagen.




**Diesel Fuel Pump Timing Set**

Suitable for the correct timing of Bosch VE diesel fuel pumps and Nippon Denso and Kikki equivalents with threaded end fittings of M8, M10 and M12.

| ID | Description | Part |
|---|---|---|
| A | M8 Adaptor Long | 23065-01 |
| B | Extension Long - 99mm | 23065-03 |
| C | Thread Convertor M8-M12 | 23065-05 |
| D | Dial Test Indicator 41 x 8 x 0.1mm | 23072 |
| E | M8 Adaptor Short | 23076-01 |
| F | Extension - Short 40.8mm | 23076-02 |
| G | M10 Adaptor - Short | 23077-01 |

## 23072

**Dial Test Indicator**

The dial test indicator is a precision measuring instrument which turns linear motion into angular motion by means of a rack and pinion transmission.

Made using quality materials these units feature bezel lock, limiting pointers and replaceable tips.

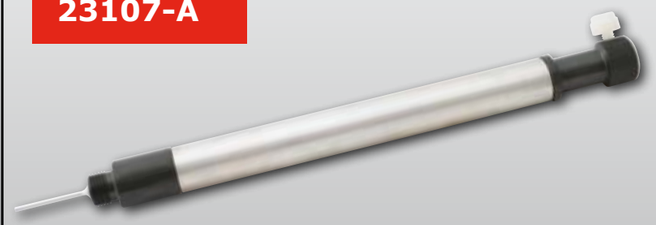
41mm dial/8mm range/0.01 increments

## 23105

**Top Dead Centre Indicator**

Designed to screw into the M14 spark plug hole on small petrol engines. A series of notches indicate when the piston is at TDC (top dead centre)

## 23107-A



**TDC Indicator**

An essential tool for measuring the cylinder position at TDC on multi-valve engines. This Adaptor is for use with Dial Test Indicator 23072 (not included)

## 23107-B

**TDC Indicator**

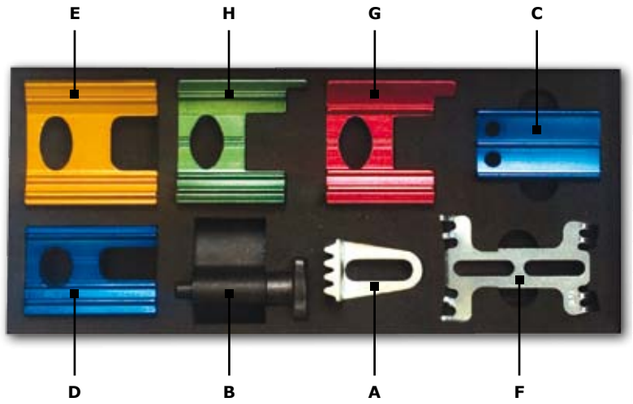
An essential tool for measuring the cylinder position at TDC on multi-valve engines. This Adaptor is for use with Dial Test Indicator 23072 (not included)

For use on:

Fiat Brava, Bravo 1.6/1.8 16v (95-)

Bravo, Marea, Marea Weekend, Coupe 2.0 20v and Turbo (94-)

## 23150




**Engine Timing Locking Tools – Universal**

A collection of the most popular locking tools for camshafts, crankshafts and flywheel pulleys including those fitted to Citroën/Peugeot/Fiat/Rover/Saab/Vauxhall/Opel/Volkswagen/Audi/Skoda/Seat/Isuzu

Supplied in metal storage case with full application list and OEM codes.

| ID | OEM Ref | Description | Part |
|---|---|---|---|
| A | 0153A, 9765.54, 6012T, 1 860 161 000 | Flywheel Locking Tool | **23111-02** |
| B | 23-059, T10050, 310-085 | Crankshaft Setting Tool | **23161-03** |
| C | 18G1570 | Camshaft Locking Tool | **23050** |
| D | KM852 | Twin Camshaft Locking Tool (Blue) | **23058-01** |
| E | KM853 | Twin Camshaft Locking Tool (Gold) | **23058-02** |
| F | KM517B | Flywheel Locking Tool | **23058-03** |
| G | KM800-1 | Camshaft Locking Tool (LH) (Red) | **23047-04** |
| H | KM800-2 | Camshaft Locking Tool (RH) (Green) | **23047-03** |

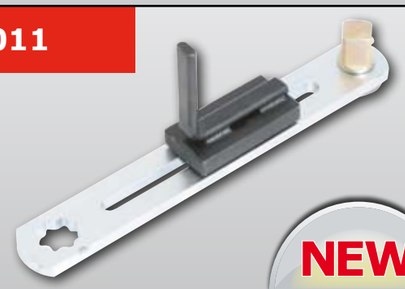
## 23102

**Camshaft Sprocket Holding Tool**

An extendable camshaft holding tool with grooved belt to cover a range of sprockets up to 415mm diameter. The handle extends from 100mm to 180mm for extra leverage.

| OEM Ref | Description | Part |
|---|---|---|
| 3036, MP1 216, 6012T, 1 860 831 000, 15-030A | Camshaft Sprocket Holding Tool | 23102 |

## 23011




**Auxiliary Drive Belt Stretcher**

A specially designed* tool to stretch auxiliary belts to aid replacement. The tool can be used universally and is supplied with 1/2"D facility.

*Registered Design.

**Precision made in Sheffield, these specialist automotive tools are produced using the highest quality steel with precision engineering.**

**Tools include:**

**Brakes**
Brake calliper piston rewind tools with adaptors for most modern vehicles and motor cycles

**Diesel Engines**
Specialist tools for removing the diesel injectors and nozzles.

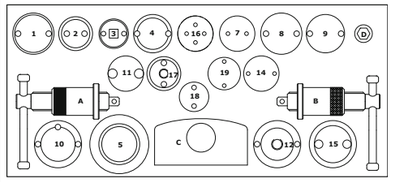
**Suspension Tools**
A growing selection of tools for removing the bushes from suspension joints and sub-frames.

## 21001

**Brake Calliper Service Tool – Super Set**

**A comprehensive set 18 special adaptors to enable the quickest way of replacing worn brake pads on both 'wind-back' and 'push-back' callipers.**

Eighteen adaptors are included covering some of the popular car makes from Alfa Romeo to Volvo. The set includes a left hand threaded Reaction Nut and Screw for Renault Master and Citroën C5. Practical storage case, adaptor identity plan and operating instructions.




**Adaptors available individually**

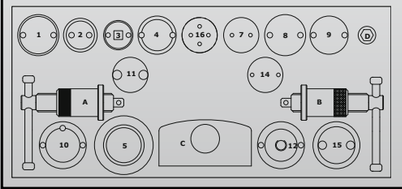
| Description | Part |
|---|---|
| Screw & T/Bar Assembly C/W Reaction Nut | 21004-S&N2 |
| Screw & T/Bar Assembly C/W Reaction Nut - Left Hand Thread | 21004-SL&NL |
| Drive Key 12mm Hexagon | 23121 |
| Reaction Strap | 21004-RS |
| **Adaptors:** 01, 02, 03, 04, 05, 07, 08, 09, 10, 11, 12, 14, 15, 16, 17, 18, 19 | – |

## 21000

**Brake Calliper Service Tool – Master Set**

**A comprehensive set 15 special adaptors to enable the quickest way of replacing worn brake pads on both 'wind-back' and 'push-back' callipers.**

Fifteen adaptors are included covering some of the popular car makes from Alfa Romeo to Volvo. The set includes a left hand threaded Reaction Nut and Screw for Renault Master and Citroën C5. Practical storage case, adaptor identity plan and operating instructions.




**Adaptors available individually**

| Description | Part |
|---|---|
| Screw & T/Bar Assembly C/W Reaction Nut | 21004-S&N2 |
| Screw & T/Bar Assembly C/W Reaction Nut - Left Hand Thread | 21004-SL&NL |
| Drive Key 12mm Hexagon | 23121 |
| Reaction Strap | 21004-RS |
| **Adaptors:** 01, 02, 03, 04, 05, 07, 08, 09, 10, 11, 12, 14, 15, 16 | – |



## 21005

**Brake Calliper Service Set**

A comprehensive set of special adaptors to enable the quickest way of replacing worn brake pads on both 'wind-back' and 'push-back' callipers.

Seven adaptors including 01/02/03/04/05/10 plus 23121

Attractive, practical storage case, adaptor identity plan and operating instructions included.

**Adaptors available individually**

| Description | Part |
|---|---|
| Screw & T/Bar Assembly C/W Reaction Nut | 21004-S&N2 |
| Drive Key 12mm Hexagon | 23121 |
| Reaction Strap | 21004-RS |
| **Adaptors:** 01, 02, 03, 04, 05, 10 | |

## 21004-50

**Brake Piston Rewind Tool – Citroën/Renault**

A new set designed to suit brake callipers with left hand threaded pistons.

Utilising the left hand threaded Reaction Nut/Screw Assembly plus Reaction Strap and two Adaptors (Nos: 01/15)

Suitable for Renault Master van and Citroën C5.

**Adaptors available individually**

| Description | Part |
|---|---|
| Screw & T/Bar Assembly C/W Reaction Nut - Left Hand Thread | 21004-SL&NL |
| Reaction Strap | 21004-RS |
| **Adaptors:** 01 and 15 | – |

## 21015

**Brake Calliper Service Set**

A comprehensive set of special adaptors to enable the quickest way of replacing worn brake pads on both 'wind-back' and 'push-back' callipers.

Seven adaptors including 01/02/03/05/07/10 plus 23121.

Practical storage case, adaptor identity plan and operating instructions included.

**Adaptors available individually**

| Description | Part |
|---|---|
| Screw & T/Bar Assembly C/W Reaction Nut | 21004-S&N2 |
| Drive Key 12mm Hexagon | 23121 |
| Reaction Strap | 21004-RS |
| **Adaptors:** 01, 02, 03, 05, 07, 10 | – |

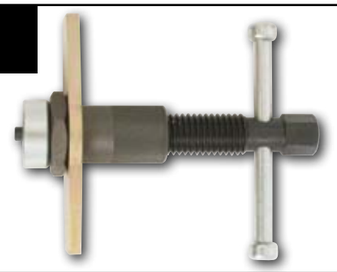
| Manufacturer/Model | Adaptor |
|---|---|
| Alfa Romeo, Audi, Citroën, Fiat, Ford, Honda, Jaguar, Lancia, Nissan, Peugeot, Renault, Rover, Saab, Seat, Subaru, Volkswagen and Volvo | 1 |
| Ford, Mazda, Mitsubishi and Toyota | 2 |
| Alfa Romeo, Fiat, Ford, Honda, Rover and Saab | 3 |
| Nissan and Opel (with Bosch Callipers) | 4 |
| Audi, BMW, Citroën, Ford, Honda, Jaguar, Mitsubishi, Nissan, Peugeot, Rover, Toyota, Volkswagen and Volvo (all models with Push-Back pistons) | 5 |
| Audi, BMW, Lancia, Proton, Renault, Rover and VW | 7 |

| Manufacturer/Model | Adaptor |
|---|---|
| Audi A8, S8 | 8 |
| Jaguar S Series, Opel (models with Lucas TRW callipers) | 9 |
| Citroën XM, Xantia | 10 |
| Ford (USA), Lincoln and Subaru | 11 |
| Citroën BX | 12 |
| Citroën C2, C3 | 14 |
| Citroën C5 | 15 |

| Manufacturer/Model | Adaptor |
|---|---|
| Opel Vectra and Toyota Avensis | 16 |
| Peugeot 206 '03 Gti, HDi, CC | 17 |
| Ford Focus, C Max | 18 |
| Fiat Stilo | 19 |
| Iveco Daily | 22 |
| BMW Mini | 23 |
| Renault Modus | 25 |
| Alfa Romeo, Audi, Ford, Lancia and Volkswagon | 12mm Hex 23121 |

To order any rewind adaptor, prefix 21004 then adpator number i.e. 21004-01

## 21004-20



**Brake Piston Rewinder – BMW Mini**

This tool is essential for re-winding the rear brake piston on all BMW Mini models.

| Manufacturer | Description | Part |
|---|---|---|
| BMW Mini | Reaction Nut & Screw Assembly (Small) | 21004-SS&SN |
| | Reacton Strap (Small) | 21004-SRP |
| | **Adaptor No 23. Available Separately.** Threaded Screw & Reaction Nut RH | 21004-23 |

## 21004-S&N

**Reaction Nut and Screw Assembly – Right Handed**

For re-winding the rear brake piston into the calliper.

| Manufacturer | Description | Part |
|---|---|---|
| Universal | RH | 21004-S&N |

## 21058

NEW

**Brake Pipe Corrosion Tool**

An essential tool suitable for service maintenance and pre-MOT inspection. This handy tool features three scraping edges for removing grime and debris and enabling detection of corroded brake pipes.

## 21002

**Hexagon Wrench 7mm**

This long reach hexagonal wrench enables the removal of the brake calliper fasteners, essential when changing the brake pads on Ford Fiesta models.

Also suitable for valve adjustment on Volkswagen Golf and Polo models.

Made from Chrome Vanadium with a comfortable sleeve handle.

## 21006

**Brake Pin Punch Set**

Two parallel pin punches for drifting out the brake pad retaining pins on most brake callipers;

4mm – general applications.

6mm – with pilot for the hollow spring pins fitted to Vauxhall/Opel models.

Made from Chrome Vanadium.

## 21059

**Brake Piston Removing Tool – Motorcycles**

This tool enables the removal of seized brake pistons.

Supplied with 12 collets ranging from 19mm-30mm

NEW

## 21057

**Brake Disc Removal Tool – Ford Transit**

Removes the front brake discs without damaging the bearings on FWD and RWD Ford Transits from 2001 onwards.

Manufactured from Chrome Molybdenum for strength.

OEM ref: 204-345B

NEW

## 23048-25

**Diesel Injection Pump Puller**

A special diesel injection pump puller for BMW/ Land Rover/Vauxhall/Opel vehicles with 2.5 TD5 engines.

## 23048-15

NEW

**Diesel Engine Injection Pump Remover and Sprocket Retainer – BMW 2.0/3.0D**

This tool is suitable for the safe removal of the fuel pump when removing from the pump sprocket, and to retain the position of the pump sprocket in-situ, whilst the pump is being removed from the engine. This permits the front sprocket/ timing chain alignment to be un-disturbed and remain tensioned, thus saving dismantling time.

The tool is designed to fit both in-line and transverse mounted engines. BMW 318d Compact (E46), 320d/td, Compact (E46), 330d (E46), 525d (E39), 525d (E60/E61), 530d (E39), 530d (E60/E61), 535d (E60/E61), 730d (E38), X5 3,0d (E53), Landrover Freelander (Td4), Rover 75 (M47)

## 23012

NEW

**Diesel Injector Seat Cutter Set**

This set of four Diesel Injector cutters ensures that the injector seat is bored to the exact dimension when replacing or reconditioning the diesel injectors, avoiding blow back and poor emissions.

**Cutter sizes include:**
19mm Flat for Mercedes CRD
17mm Flat for BMW, PSA and Renault
15mm Flat for most other manufacturers
19mm Angled for Fiat and Iveco.



## 23048-33

NEW

**Injection Pump Shaft Lever – General Motors/Opel**

OEM ref: KM826

## 23006-17

NEW

**Diesel Injector Remover Adaptor**

For easier removal of stubborn fuel injectors fitted to GM Opel/Vauxhall Astra-G, Vectra, Zafira and Frontera 2.0/2.2 TD diesel engines.

For use with 5/8" UNF threaded Slide Hammer Assy (Part No 21050-01)

See page number 64 for details.

## 23091

NEW

**Diesel Injector Removal Kit – Bosch/Delphi**

This kit comprises of two adaptors for connection to the Injector shell threads and a suitable slide hammer (thread 5/8" UNF) to enable the removal by impact method of seized fuel injectors.

A tamperproof key enables the removal of the sensor and cooling fan prior to engaging the adaptor into Bosch injectors.

Also available separately is the Sensor Key – Bosch Part No. **23091-04**

**Optional:**
Slide Hammer Assembly on page 64
Part No. **21050-01**

## 23008

NEW

**Injector Remover – Volkswagen Audi Group TDi**

Designed for the specific purpose of enabling the removal of seized fuel injector from diesel engines.

Contents include a 600gms slide hammer complete with two internal threaded adaptors, plus two hook adaptors, one direct the other offset.

OEM ref: T1055

## 27006 BMW

**Rear Sub-frame Suspension Bush Tool – BMW 5 Series Touring**

For use on BMW 5 series Touring (E38/E39) to enable the removal and replacement of the suspension bushes whilst in situ.

The features of this tool permit the four bushes to be replaced within one hour thus proving to be a time saver. Made from high tensile steel the Centre Screw and Thrust Nut designs enhance the ease of use.

| Description | Part |
|---|---|
| Centre Screw | 27006-01 |
| Thrust Nut | 27009-06 |

## 27007 BMW

**Rear Trailing Arm Suspension Bush Tool – BMW 3 series**

For use on BMW 3 series (E36, E40, and E48 Compact).

Permits the replacement of worn bushes without the removal of the trailing arm. Made from high strength steel, the Centre Screw and Thrust Nut designs enhance the ease of use.

| Description | Part |
|---|---|
| Centre Screw | 27007-01 |
| Thrust Nut | 27007-02 |

## 27008 BMW

**Rear Axle Carrier Bush Replacer – BMW X5**

For use on BMW X5 series (E53) models only.

This bush extraction and replacement set can be used in-situ without removing the rear carrier assembly.

| Description | Part |
|---|---|
| Centre Screw | 27008-01 |
| Thrust Nut | 27009-06 |

## 27010 BMW

**Rear Sub-Frame Bush Tool – BMW 5 series**

For use on BMW 5 series (E39) 1996 onwards.

This extraction and replacement set enables the easy change of the rear axle carrier mounting bushes without removal of the unit from the vehicle.

| Description | Part |
|---|---|
| Centre Screw | 27010-01 |
| Thrust Nut | 27009-06 |



## 27011 BMW

**Rear Suspension Ball Joint Bush Tool – BMW 5/7 series**

For use on BMW 5 series (E39) and 7 series (E38).

This extraction and replacement set enables the easy change of the rear suspension ball joint bushes without removal of the unit from the vehicle.

| Description | Part |
|---|---|
| Centre Screw | 27011-01 |
| Thrust Nut | 27009-06 |

## 27009 VOLKSWAGEN AUDI GROUP

**Track Control Arm Bush Tool – Volkswagen Audi Group**

This tool enables the removal and replacement of the front control arm bushes and permits alignment of the new bush with the console.

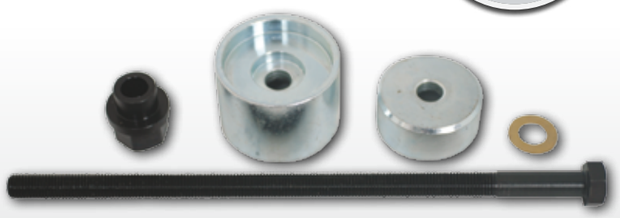
Made from high tensile steel, the Centre Screw and Thrust Nut designs enhance the ease of use.

For use on Volkswagen Polo III, Fox, Skoda Fabia and Seat Ibiza models (01).

OEM ref: T10030

| Description | Part |
|---|---|
| Centre Screw | 27009-02 |
| Thrust Nut | 27009-06 |

## 27004 VOLKSWAGEN AUDI GROUP



**Suspension Bush Removal/Replacement – VW Polo, Fox, Skoda Fabia, Seat Ibiza (-02)**

For replacing worn bushes on the Track control arm on the front suspension.

OEM ref: -3346

| Description | Part |
|---|---|
| Centre Screw | 27004-01 |
| Thrust Nut | 27004-04 |

## 27014 FORD

NEW

**Rear Sub-frame Bush Tool – Ford Mondeo (01-)**

For replacing the rear upper and lower suspension bushes on many models of Ford Mondeo (01-) whilst in-situ. Made from high tensile steel the Centre Screw and Thrust Nut designs enhance the ease of use.

| Description | Part |
|---|---|
| Centre Screw | 27014-01 |
| Thrust Nut | 27009-06 |

## 27012 OPEL VAUXHALL

NEW

**Trailing Arm Bush Tool – Opel/Vauxhall Vectra-B (02-)**

For the removal and replacement of upper and lower damping bushes in the trailing arm whilst in-situ. Made from high tensile steel the Centre Screw and Thrust Nut designs enhance the ease of use.

| Description | Part |
|---|---|
| Centre Screw | 27012-01 |
| Thrust Nut | 27009-06 |

## 27015 OPEL VAUXHALL

NEW

Image for illustration purposes only

**Rear Link Bush Tool – Opel/Vauxhall 1.6/1.8/2.0 models (95-) and 2.5 models (96-)**

This tool is necessary for the safe removal of both upper and lower rear trailing arm damping bushes fitted to many popular models and used in-situ.

| Description | Part |
|---|---|
| Centre Screw | 27015-01 |
| Thrust Nut | 27007-02 |

## 29100 29101 VOLKSWAGEN AUDI GROUP

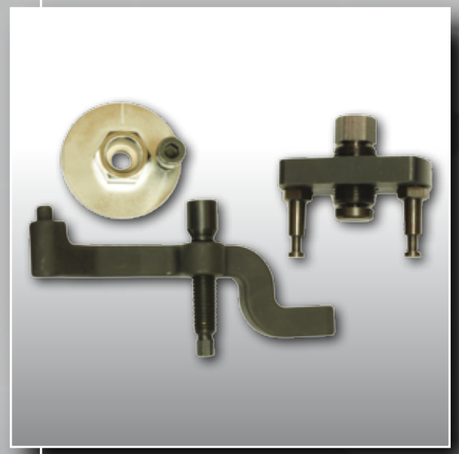
NEW

**Sub-frame Alignment Guide Set (4)**

For use when servicing the front suspension and re-fitting the sub-frame to the mounting brackets on many VAG models.

T10096

| Application | Type | Part |
|---|---|---|
| Volkswagen Scirocco 09-. EOS (06), Golf (09), Golf Plus (05), Jetta (04-06), Polo (02), Fox (06), Passat (06), Passat CL (09) and Audi A3 (04), TT (07) and A4 (01) – T10096 | M12 | 29100 |
| Volkswagen Crafter – T10227 | M14 | 29101 |



**Other specialist tools have been added to the range over time, some vehicle specific and others for general workshop use.**

**These include:**

- Crankshaft Oil Seal Installer for Volkswagen models
- Oil Pressure Test Kit with quick release couplings
- Puller for Ribbed Drive Pulleys on crankshafts, alternators and water pumps etc.

## 23001

**Oil Filter (Chain) Wrench**

For removing oil filter cartridges up to 120mm diameter.

Hexagon drive shank (7/8") enables the use of 1/2"D socket and wrench or a 3/8"D wrench can be used direct with the integral internal square drive provided. Continuous link chain makes for strength and durability.

Chrome Vanadium shank.

## 23007

**Valve Stem Oil Seal Replacer – Volkswagen Audi Group 20v**

For renewing the Valve Stem Oil Seals (without removing the cylinder head) on 1.8/2.0 20v engines with five valves per cylinder being used in Audi A3, A4, A6 and Volkswagen Golf, Passat models.

OEM Ref. 3362

## 23550

**Oil Pressure Tester 'Quick Release' Set**

For use on most cars, vans, trucks, tractors and small boats when fitted with oil pressure warning light and switch.

This kit enables the test of the switch, sensors, dashboard gauge and indicators linked to the oil pump.

Gauge calibrated to BS1780:1985 and dual scaled 0-120 psi or 0-8 bar, fitted with rubber shroud for both durability and gauge protection.

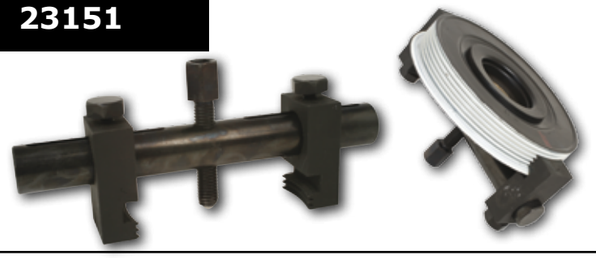
Oil filled hose with quick release connector.

A comprehensive range of 10 quick release connection adaptors to suit most popular applications.

Supplied in a storage case.



## 23151



**Puller for Ribbed Drive Pulleys**

The invaluable tool clamps onto any ribbed pulley and extracts it from the drive wheel. Suitable for use on crankshafts, alternators, air conditioning units and water pumps

NEW

## 23013

**Crankshaft Seal Installer**

This Crankshaft Seal Flange Remover and Installer is introduced for Volkswagen and Audi Group models 16v 1.4/1.6 engines.

OEM Ref. T10017

NEW

## 23014

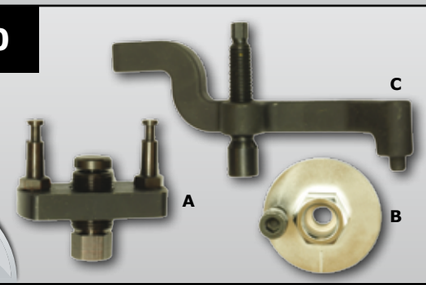
**Crankshaft Seal Installer**

This Crankshaft seal removal and installer tool has been introduced for use on Golf, Touran, Audi A3 (04-) and also for 4 cylinder diesel engines with applications including; 1.4i Turbo, 1.4/1.6 Direct Injection (Petrol), 1.9/2.0 SDI, 2.0 TDi and 2.0 Common Rails (Diesel).

OEM Ref. T10134.

NEW

## 23162-80




**Water Pump Removal Set – Volkswagen Audi Group**

This set of accessory tools provides tools required for engine timing and service tasks.

*Also available seperately.

| ID | Description | Part |
|---|---|---|
| A | Puller (OEM Ref. T10221) | 23162-81 |
| B | Special Wrench (OEM Ref. T10225) for 5 cylinder Touareg (03-)* | 23162-82 |
| C | Water Pump Remover (OEM Ref. T10222) | 23162-86 |

NEW

## 29007
## 29007-C

**Spot-weld Remover**

A specially designed drill attachment for removing damaged panels by drilling around the spot-weld of the top panel and leaving the lower panel free to be dressed clean in preparation of the replacement panel. Fine adjustment of the centre screw enables controlled depth of cut.

Double sided replaceable cutters are available as a spare part No. **29007-C**

## 29027

**Spot Weld Remover Set**

This set consists of a Spot Weld Cutter (29007) plus 2 replaceable, double side cutters (29007-C) and a Centre Punch (29008)

## 29028

**Centre Punch**

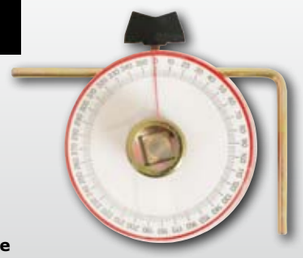
## 21050-01

**Slide Hammer Assembly**

This slide hammer is an ideal tool for any work shop where additional force is required. Suitable for use as a diesel injector remover with the relevant adaptors.

- Short reach
- 5/8" UNF thread
- 600gms

## 23040

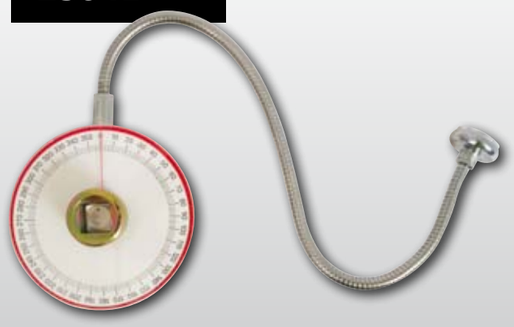


**Angular Torque Gauge**

Modern design changes in vehicle manufacturing technology have resulted in the specifications for tightening fasteners to a low torque threshold and then rotating the fastener through a specified angle.

- 1/2" D both male and female connection.
- Friction grip cursor which can easily be zeroed.
- Clear protractor scale with 2° increments.

## 23041



**Angular Torque Gauge – Magnetic Reaction Arm**

This gauge has similar features to that of 23040 but it is equipped with a flexible, magnetic reaction arm.

**Our Application Directory is designed to make tool selection easy. Using the OEM Tool code linked to our component code we are able to supply an application list for each of our tool kits.**

The cross reference of these codes is listed in this applications directory.

This data will also appear on our website where Toolpoint will give access to the correct tool or set for a selected vehicle.

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 0132AB | 23069-04 | 23049 |
| 0132AB | 23069-04 | 23100 |
| 0132AB | 23069-04 | 23159 |
| 0132AB | 23069-04 | 23175 |
| 0132AB | 23069-04 | 23061-00 |
| 0132AB | 23069-04 | 23061-60 |
| 0132AB | 23069-04 | 23061-70Pk |
| 0132AB | 23069-04 | 23061-80 |
| 0132AE | 23005 | 23005 |
| 0132AJ1 | 23069-32 | 23061-00 |
| 0132AJ1 | 23069-32 | 23061-60 |
| 0132AJ2 | 23069-33 | 23061-00 |
| 0132AJ2 | 23069-33 | 23061-60 |
| 0132AJ2 | 23069-33 | 23061-70Pk |
| 0132AK | 23069-53 | 23061-00 |
| 0132AK | 23069-53 | 23061-60 |
| 0132AK | 23069-53 | 23061-70Pk |
| 0132AK | 23069-53 | 23069-53 |
| 0132AK | 23069-53 | 23069-60 |
| 0132Q | 23055-01 | 23049 |
| 0132Q | 23055-01 | 23055 |
| 0132Q | 23055-01 | 23061-00 |
| 0132Q | 23055-01 | 23061-60 |
| 0132QZ | 23055-01 | 23049 |
| 0132QZ | 23055-01 | 23055 |
| 0132QZ | 23055-01 | 23061-00 |
| 0132QZ | 23055-01 | 23061-60 |
| 0132R | 23055-02 | 23049 |
| 0132R | 23055-02 | 23055 |
| 0132R | 23055-02 | 23061-00 |
| 0132R | 23055-02 | 23061-60 |
| 0132X | 23053 | 23049 |
| 0132X | 23053 | 23053 |
| 0132X | 23053 | 23055 |
| 0132X | 23053 | 23061-00 |
| 0132X | 23053 | 23061-60 |
| 0132X1Z | 23053 | 23049 |
| 0132X1Z | 23053 | 23053 |
| 0132X1Z | 23053 | 23055 |
| 0132X1Z | 23053 | 23061-00 |
| 0132X1Z | 23053 | 23061-60 |
| 0132Z | 23055-01 | 23049 |
| 0132Z | 23055-01 | 23055 |
| 0132Z | 23055-01 | 23061-00 |
| 0132Z | 23055-01 | 23061-60 |
| 0134AF | 23069-46 | 23061-00 |
| 0134AF | 23069-46 | 23061-60 |
| 0134Q | 23069-46 | 23061-00 |
| 0134Q | 23069-46 | 23061-60 |
| 0153A | 23111-02 | 23111 |
| 0153A | 23111-02 | 23150 |
| 0153A | 23111-02 | 23061-00 |
| 0153A | 23111-02 | 23061-60 |
| 0153A | 23111-02 | 23111-02 |
| 0153AA | 23055-02 | 23049 |
| 0153AA | 23055-02 | 23055 |
| 0153AA | 23055-02 | 23061-00 |
| 0153AA | 23055-02 | 23061-60 |
| 0153AB | 23055-02 | 23049 |
| 0153AB | 23055-02 | 23055 |
| 0153AB | 23055-02 | 23061-00 |
| 0153AB | 23055-02 | 23061-60 |
| 0153AK | 23069-53 | 23061-00 |
| 0153AK | 23069-53 | 23061-60 |
| 0153AK | 23069-53 | 23061-70Pk |
| 0153AK | 23069-53 | 23069-53 |
| 0153AK | 23069-53 | 23069-60 |
| 0153G | 23061-02 | 23062 |
| 0153G | 23061-02 | 23158 |
| 0153G | 23061-02 | 23061-00 |
| 0153G | 23061-02 | 23061-10 |
| 0153G | 23061-02 | 23061-60 |
| 0153G | 23061-02 | 23081-C |
| 0153M | 23060-03 | 23060 |
| 0153M | 23060-03 | 23062 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 0153M | 23060-03 | 23060-07 |
| 0153M | 23060-03 | 23081-C |
| 0153N | 23061-02 | 23062 |
| 0153N | 23061-02 | 23158 |
| 0153N | 23061-02 | 23061-00 |
| 0153N | 23061-07 | 23061-00 |
| 0153N | 23061-02 | 23061-10 |
| 0153N | 23061-02 | 23061-60 |
| 0153N | 23061-07 | 23061-60 |
| 0153N | 23061-02 | 23081-C |
| 0153ZY | 23055-02 | 23049 |
| 0153ZY | 23055-02 | 23055 |
| 0153ZY | 23055-02 | 23061-00 |
| 0153ZY | 23055-02 | 23061-60 |
| 0174 | 23069-57 | 23061-00 |
| 0174 | 23069-57 | 23061-60 |
| 0178A | 23060-05 | 23060 |
| 0178A | 23060-05 | 23062 |
| 0178A | 23060-05 | 23060-07 |
| 0178A | 23060-05 | 23081-C |
| 0178B | 23060-02 | 23060 |
| 0178B | 23060-02 | 23062 |
| 0178B | 23060-02 | 23360 |
| 0178B | 23060-02 | 23060-07 |
| 0178B | 23060-02 | 23081-C |
| 0178C/D | 23060-03 | 23060 |
| 0178C/D | 23060-03 | 23062 |
| 0178C/D | 23060-03 | 23060-07 |
| 0178C/D | 23060-03 | 23081-C |
| 0178D | 23069-04 | 23049 |
| 0178D | 23069-04 | 23100 |
| 0178D | 23069-04 | 23159 |
| 0178D | 23069-04 | 23175 |
| 0178D | 23069-04 | 23061-00 |
| 0178D | 23069-04 | 23061-60 |
| 0178D | 23069-04 | 23061-70Pk |
| 0178D | 23069-04 | 23061-80 |
| 0178E | 23069-44 | 23061-00 |
| 0178E | 23069-44 | 23061-60 |
| 0187A | 23069-26 | 23069-60 |
| 0187E | 23069-55 | 23069-60 |
| 0187F | 23069-54 | 23069-60 |
| 0187J | 23069-53 | 23061-00 |
| 0187J | 23069-53 | 23061-60 |
| 0187J | 23069-53 | 23061-70Pk |
| 0187J | 23069-53 | 23069-53 |
| 0187J | 23069-53 | 23069-60 |
| 0188D | 23061-02 | 23062 |
| 0188D | 23061-02 | 23158 |
| 0188D | 23061-02 | 23061-00 |
| 0188D | 23061-07 | 23061-00 |
| 0188D | 23061-02 | 23061-10 |
| 0188D | 23061-02 | 23061-60 |
| 0188D | 23061-07 | 23061-60 |
| 0188D | 23061-02 | 23081-C |
| 0188F | 23069-46 | 23061-00 |
| 0188F | 23069-46 | 23061-60 |
| 0188F | 23069-54 | 23069-60 |
| 0188H | 23069-07 | 23158 |
| 0188H | 23069-07 | 23061-00 |
| 0188H | 23069-07 | 23061-60 |
| 0188J/J1 | 23069-44 | 23061-00 |
| 0188J/J1 | 23069-44 | 23061-60 |
| 0188J2 | 23069-49 | 23061-00 |
| 0188J2 | 23069-49 | 23061-60 |
| 0188K | 23069-53 | 23061-00 |
| 0188K | 23069-53 | 23061-60 |
| 0188K | 23069-53 | 23061-70Pk |
| 0188K | 23069-53 | 23069-53 |
| 0188K | 23069-53 | 23069-60 |
| 0188M | 23069-33 | 23061-00 |
| 0188M | 23069-33 | 23061-60 |
| 0188M | 23069-33 | 23061-70Pk |
| 0188P | 23069-57 | 23061-00 |
| 0188P | 23069-57 | 23061-60 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 0188P2 | 23069-57 | 23061-00 |
| 0188P2 | 23069-57 | 23061-60 |
| 0188Q1 | 23053 | 23049 |
| 0188Q1 | 23053 | 23053 |
| 0188Q1 | 23053 | 23055 |
| 0188Q1 | 23053 | 23061-00 |
| 0188Q1 | 23053 | 23061-60 |
| 0188Q2 | 23053-02 | 23053-02 |
| 0188X | 23061-11 | 23061-00 |
| 0188X | 23061-11 | 23061-60 |
| 0188Y | 23061-07 | 23061-00 |
| 0188Y | 23061-07 | 23061-60 |
| 0189A | 23069-36 | 23061-00 |
| 0189A | 23069-36 | 23061-60 |
| 0189A | 23069-36 | 23061-70Pk |
| 0189AZ | 23069-37 | 23061-00 |
| 0189AZ | 23069-37 | 23061-60 |
| 0189AZ | 23069-37 | 23061-70Pk |
| 0189B | 23069-25 | 23159 |
| 0189B | 23069-25 | 23173 |
| 0189B | 23069-25 | 23175 |
| 0189B | 23069-25 | 23061-00 |
| 0189B | 23069-25 | 23061-60 |
| 0189B | 23069-25 | 23061-70Pk |
| 0189B | 23069-25 | 23069-60 |
| 0189C | 23055-06 | 23061-00 |
| 0189C | 23055-06 | 23061-60 |
| 0189C | 23055-06 | 23061-70Pk |
| 0189K | 23069-53 | 23061-00 |
| 0189K | 23069-53 | 23061-60 |
| 0189K | 23069-53 | 23061-70Pk |
| 0189K | 23069-53 | 23069-53 |
| 0189K | 23069-53 | 23069-60 |
| 0189L | 23069-38 | 23061-00 |
| 0189L | 23069-38 | 23061-60 |
| 0189L | 23069-38 | 23061-70Pk |
| 0189R | 23061-12 | 23061-70Pk |
| 0189S1 | 23061-14 | 23061-70Pk |
| 0189S2 | 23061-15 | 23061-70Pk |
| 0189X | 23061-11 | 23061-00 |
| 0189X | 23061-11 | 23061-60 |
| 0194C | 23060-11 | 23159 |
| 0194C | 23060-11 | 23175 |
| 0195K | 23061-18 | 23079 |
| 0195K | 23061-18 | 23061-50 |
| 0196C | 23061-19 | 23079 |
| 0196C | 23061-19 | 23061-50 |
| 0288D | 23061-07 | 23061-00 |
| 0288D | 23061-07 | 23061-60 |
| 07744-00104-00 | 23069-04 | 23049 |
| 07744-00104-00 | 23069-04 | 23100 |
| 07744-00104-00 | 23069-04 | 23159 |
| 07744-00104-00 | 23069-04 | 23175 |
| 07744-00104-00 | 23069-04 | 23061-00 |
| 07744-00104-00 | 23069-04 | 23061-60 |
| 07744-00104-00 | 23069-04 | 23061-70Pk |
| 07744-00104-00 | 23069-04 | 23061-80 |
| 09244-28000 | 23045-02 | 23045 |
| 09244-28100 | 23045-01 | 23045 |
| 1 822 146 000 | 23106 | 23106 |
| 1 822 154 000 | 23169-01 | 23111 |
| 1 822 154 000 | 23169-01 | 23169-01 |
| 1 822 155 000 | 23106 | 23106 |
| 1 825 013 000 | 23107-A | 23107-A |
| 1 825 040 000 | 23110-A | 23110-A |
| 1 825 041 000 | 23110-B | 23111 |
| 1 825 041 000 | 23110-B | 23110-B |
| 1 825 042 000 | 23110-C | 23111 |
| 1 825 042 000 | 23110-C | 23110-C |
| 1 842 128 000 | 23106 | 23106 |
| 1 852 161 000 | 23103 | 23103 |
| 1 852 161 000 | 23103 | 23162-90 |
| 1 860 161 000 | 23111-02 | 23111 |
| 1 860 161 000 | 23111-02 | 23150 |
| 1 860 161 000 | 23111-02 | 23061-00 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 1 860 161 000 | 23111-02 | 23061-60 |
| 1 860 161 000 | 23111-02 | 23111-02 |
| 1 860 443 000 | 23107 | 23107 |
| 1 860 443 000 | 23107 | 23111 |
| 1 860 617 000 | 23069-04 | 23049 |
| 1 860 617 000 | 23069-04 | 23100 |
| 1 860 617 000 | 23069-04 | 23159 |
| 1 860 617 000 | 23069-04 | 23175 |
| 1 860 617 000 | 23069-04 | 23061-00 |
| 1 860 617 000 | 23069-04 | 23061-60 |
| 1 860 617 000 | 23069-04 | 23061-70Pk |
| 1 860 617 000 | 23069-04 | 23061-80 |
| 1 860 638 000 | 23101 | 23101 |
| 1 860 638 000 | 23101 | 23061-80 |
| 1 860 703 000 | 23111-01 | 23111 |
| 1 860 766 000 | 23111-03 | 23111 |
| 1 860 771 000 | 23111-04 | 23111 |
| 1 860 771 000 | 23111-04 | 23156 |
| 1 860 819 000 | 23110-H | 23110-H |
| 1 860 831 000 | 23106 | 23106 |
| 1 860 845 000 | 23169-02 | 23111 |
| 1 860 845 000 | 23169-02 | 23155 |
| 1 860 845 000 | 23169-02 | 23169-02 |
| 1 860 846 000 | 23111-05 | 23111 |
| 1 860 847 000 | 23110-D | 23111 |
| 1 860 847 000 | 23110-D | 23155 |
| 1 860 847 000 | 23110-D | 23110-D |
| 1 860 863 000 | 23061-02 | 23062 |
| 1 860 863 000 | 23061-02 | 23158 |
| 1 860 863 000 | 23061-02 | 23061-00 |
| 1 860 863 000 | 23061-02 | 23061-10 |
| 1 860 863 000 | 23061-02 | 23061-60 |
| 1 860 863 000 | 23061-02 | 23081-C |
| 1 860 874 000 | 23112 | 23111 |
| 1 860 874 000 | 23112-01 | 23156 |
| 1 860 874 000 | 23112-02 | 23156 |
| 1 860 875 000 | 23110-E | 23111 |
| 1 860 875 000 | 23110-E | 23155 |
| 1 860 875 000 | 23110-E | 23110-E |
| 1 860 876 000 | 23113 | 23111 |
| 1 860 876 000 | 23113 | 23156 |
| 1 860 885 000 | 23106 | 23106 |
| 1 860 892 000 | 23110-F | 23111 |
| 1 860 892 000 | 23110-F | 23110-F |
| 1 860 895 000 | 23107-B | 23111 |
| 1 860 895 000 | 23107-B | 23107-B |
| 1 860 895 000 | 23107-B | 23162-30 |
| 1 860 895 000 | 23107-B | 23162-40 |
| 1 860 895 000 | 23107-B | 23162-90 |
| 1 860 898 000 | 23111-06 | 23111 |
| 1 860 898 000 | 23111-06 | 23155 |
| 1 860 898 000 | 23111-06 | 23158 |
| 1 860 898 000 | 23111-06 | 23168 |
| 1 860 898 000 | 23111-06 | 23174 |
| 1 860 898 000 | 23111-06 | 23111-06 |
| 1 860 899 000 | 23110-G | 23111 |
| 1 860 899 000 | 23110-G | 23157 |
| 1 860 899 000 | 23110-G | 23110-G |
| 1 860 901 000 | 23111-07 | 23111 |
| 1 860 901 000 | 23111-07 | 23157 |
| 1 860 905 000 | 23111-08 | 23111 |
| 1 860 905 000 | 23111-08 | 23158 |
| 1 860 905 010 | 23111-08 | 23111 |
| 1 860 905 010 | 23111-08 | 23158 |
| 1 860 931 000 | 23114-03 | 23114 |
| 1 860 931 000 | 23114-03 | 23114-30 |
| 1 860 932 000 | 23114-01 | 23111 |
| 1 860 932 000 | 23114-01 | 23114 |
| 1 860 932 000 | 23114-01 | 23114-10 |
| 1 860 933 000 | 23111-09 | 23111 |
| 1 860 933 000 | 23111-09 | 23114-10 |
| 1 860 933 000 | 23111-09 | 23114-20 |
| 1 860 933 000 | 23111-09 | 23114-30 |
| 1 860 934 000 | 23114-02 | 23114 |
| 1 860 934 000 | 23114-02 | 23114-20 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 1 860 950 000 | 23109 | 23109 |
| 1 860 962 000 | 23110-K | 23110-K |
| 1 860 985 000 | 23171-02 | 23168 |
| 1 860 985 000 | 23171-02 | 23171 |
| 1 860 985 000 | 23171-02 | 23174 |
| 1 860 987 000 | 23171-07 | 23171 |
| 1 860 992 000 | 23171-01 | 23171 |
| 1 867 030 000 | 23111-02 | 23111 |
| 1 867 030 000 | 23111-02 | 23150 |
| 1 867 030 000 | 23111-02 | 23061-00 |
| 1 867 030 000 | 23111-02 | 23061-60 |
| 1 867 030 000 | 23111-02 | 23111-02 |
| 1 870 734 000 | 23110-M | 23110-M |
| 1 870 797 000 | 23110-L | 23110-L |
| 1 870 828 000 | 23110-J | 23110-J |
| 1 870 859 000 | 23110-N | 23110-N |
| 1 870 900 300 | 23222 | 23220 |
| 1 870 900 400 | 23221 | 23220 |
| 1 871 000 200 | 23223 | 23220 |
| 1 895 879 000 | 23107-B | 23111 |
| 1 895 879 000 | 23107-B | 23107-B |
| 1 895 879 000 | 23107-B | 23162-30 |
| 1 895 879 000 | 23107-B | 23162-40 |
| 1 895 879 000 | 23107-B | 23162-90 |
| 10mm Timing Pin | 23055-02 | 23049 |
| 10mm Timing Pin | 23055-02 | 23055 |
| 10mm Timing Pin | 23055-02 | 23061-00 |
| 10mm Timing Pin | 23055-02 | 23061-60 |
| 11 2 300 | 23048-01 | 23048 |
| 11 2 300 | 23048-01 | 23148 |
| 11 2 300 | 23048-01 | 23248 |
| 11 2 300 | 23048-01 | 23048-00 |
| 11 2 300 | 23048-01 | 23048-20 |
| 11 3 090 | 23048-08 | 23048-00 |
| 11 3 190 | 23048-03 | 23148 |
| 11 3 190 | 23048-03 | 23048-00 |
| 11 3 240 | 23048-02 | 23048 |
| 11 3 240 | 23048-02 | 23148 |
| 11 3 240 | 23048-02 | 23048-00 |
| 11 3 292 | 23048-07 | 23148 |
| 11 3 292 | 23048-07 | 23249 |
| 11 3 292 | 23048-07 | 23048-00 |
| 11 3 320 | 23048-04 | 23148 |
| 11 3 320 | 23048-04 | 23048-00 |
| 11 3 340 | 23048-12 | 23048-00 |
| 11 3 340 | 23048-12 | 23048-20 |
| 11 3 390 | 23048-05 | 23148 |
| 11 3 390 | 23048-05 | 23148 |
| 11 3 390 | 23048-05 | 23249 |
| 11 3 390 | 23048-05 | 23048-00 |
| 11 3 450 | 23249-C | 23249 |
| 11 4 220 | 23048-05 | 23148 |
| 11 4 220 | 23048-05 | 23048-00 |
| 11 5 120 | 23048-01 | 23048 |
| 11 5 120 | 23048-01 | 23148 |
| 11 5 120 | 23048-01 | 23248 |
| 11 5 120 | 23048-01 | 23048-00 |
| 11 5 120 | 23048-01 | 23048-20 |
| 11 5 490 | 23048-06 | 23148 |
| 11 5 490 | 23048-06 | 23048-00 |
| 11 6 150 | 23249-A | 23249 |
| 11 6 180 | 23249-B | 23249 |
| 11 6 320 | 23048-09 | 23048-00 |
| 11 6 320 | 23048-11 | 23048-00 |
| 11 6 320 | 23048-09 | 23048-20 |
| 11 6 320 | 23048-11 | 23048-20 |
| 11 8 240 | 23180-03 | 23180 |
| 11 8 250 | 23180-01 | 23180 |
| 11 8 370 | 23180-02 | 23180 |
| 11 8 390 | 23132 | 23182 |
| 11 8 410 | 23131 | 23182 |
| 11 9 190 | 23048-12 | 23248 |
| 11 9 290/291 | 23048-17 | 23248 |
| 11 9 290/292 | 23048-18 | 23248 |
| 11 9 293 | 23048-19 | 23248 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 11 9 340/341 | 23048-14 | 23248 |
| 11 9 350/351 | 23048-16 | 23248 |
| 12-058 | 23069-01 | 23049 |
| 12-058 | 23069-01 | 23062 |
| 12-058 | 23069-01 | 23069 |
| 12-058 | 23069-01 | 23081-C |
| 12-060 | 23051 | 23049 |
| 12-108 | 23048-01 | 23048 |
| 12-108 | 23048-01 | 23148 |
| 12-108 | 23048-01 | 23248 |
| 12-108 | 23048-01 | 23048-00 |
| 12-108 | 23048-01 | 23048-20 |
| 12-112 | 23048-04 | 23148 |
| 12-112 | 23048-04 | 23048-00 |
| 12-114 | 23048-12 | 23048-00 |
| 12-114 | 23048-12 | 23048-20 |
| 12-145 | 23111-11 | 23111-10 |
| 12-170 | 23111-12 | 23111 |
| 12-170 | 23111-12 | 23111-10 |
| 12-171 | 23048-01 | 23048 |
| 12-171 | 23048-01 | 23148 |
| 12-171 | 23048-01 | 23248 |
| 12-171 | 23048-01 | 23048-00 |
| 12-171 | 23048-01 | 23048-20 |
| 12-172 | 23048-12 | 23048-00 |
| 12-172 | 23048-12 | 23048-20 |
| 12-173 | 23048-09 | 23048-00 |
| 12-173 | 23048-09 | 23048-20 |
| 12-174 | 23048-11 | 23048-00 |
| 12-174 | 23048-11 | 23048-20 |
| 12-175 | 23078-04 | 23078 |
| 12-175 | 23078-06 | 23078 |
| 12-187 | 23078-02 | 23078 |
| 12-198 | 23078-07 | 23078 |
| 12-232 | 23078-08 | 23078 |
| 12R-208 | 23078-03 | 23078 |
| 15-030A | 23106 | 23106 |
| 15-046 | 23061-01 | 23056 |
| 15-046 | 23061-01 | 23062 |
| 15-046 | 23061-01 | 23160 |
| 15-046 | 23061-01 | 23161 |
| 15-046 | 23061-01 | 23162 |
| 15-046 | 23061-01 | 23061-20 |
| 15-046 | 23061-01 | 23081-C |
| 15-046 | 23061-01 | 23161-70 |
| 15-046 | 23061-01 | 23162-50 |
| 18G 1523 | 23069-01 | 23049 |
| 18G 1523 | 23069-01 | 23062 |
| 18G 1523 | 23069-02 | 23062 |
| 18G 1523 | 23069-02 | 23069 |
| 18G 1523 | 23069-01 | 23069 |
| 18G 1523 | 23069-01 | 23081-C |
| 18G 1523 | 23069-02 | 23081-C |
| 18G 1524 | 23051 | 23049 |
| 18G 1549 | 23069-01 | 23049 |
| 18G 1549 | 23069-01 | 23062 |
| 18G 1549 | 23069-02 | 23062 |
| 18G 1549 | 23069-02 | 23069 |
| 18G 1549 | 23069-01 | 23069 |
| 18G 1549 | 23069-01 | 23081-C |
| 18G 1549 | 23069-02 | 23081-C |
| 18G 1570 | 23050 | 23049 |
| 18G 1570 | 23050 | 23050 |
| 18G 1570 | 23050 | 23150 |
| 18G 1571 | 23111-14 | 23111-10 |
| 18G 1580 | 23069-04 | 23049 |
| 18G 1580 | 23069-04 | 23100 |
| 18G 1580 | 23069-04 | 23159 |
| 18G 1580 | 23069-04 | 23175 |
| 18G 1580 | 23069-04 | 23061-00 |
| 18G 1580 | 23069-04 | 23061-60 |
| 18G 1580 | 23069-04 | 23061-70Pk |
| 18G 1580 | 23069-04 | 23061-80 |
| 18G 1632 | 23069-03 | 23062 |
| 18G 1632 | 23069-03 | 23069 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 18G 1632 | 23069-03 | 23081-C |
| 18G 1671 | 23057 | 23049 |
| 18G 1671 | 23057 | 23057 |
| 18G 1671 | 23057 | 23100 |
| 18G 1742 | 23111-11 | 23111-10 |
| 18G 1746A | 23078-07 | 23078 |
| 18G 1747 | 23078-01 | 23078 |
| 18G 1747-1 | 23078-09 | 23078 |
| 18G 1747-5 | 23078-08 | 23078 |
| 194B | 23069-25 | 23159 |
| 194B | 23069-25 | 23173 |
| 194B | 23069-25 | 23175 |
| 194B | 23069-25 | 23061-00 |
| 194B | 23069-25 | 23061-60 |
| 194B | 23069-25 | 23061-70Pk |
| 194B | 23069-25 | 23069-60 |
| 2 000 018 200 | 23057 | 23049 |
| 2 000 018 200 | 23057 | 23057 |
| 2 000 018 200 | 23057 | 23100 |
| 205-072 | 23106 | 23106 |
| 2064 | 23061-01 | 23056 |
| 2064 | 23061-01 | 23062 |
| 2064 | 23061-01 | 23160 |
| 2064 | 23061-01 | 23161 |
| 2064 | 23061-01 | 23162 |
| 2064 | 23061-01 | 23061-20 |
| 2064 | 23061-01 | 23081-C |
| 2064 | 23061-01 | 23161-70 |
| 2064 | 23061-01 | 23162-50 |
| 2065A | 23062-B | 23056 |
| 2065A | 23062-B | 23060 |
| 2065A | 23061-B | 23062 |
| 2065A | 23062-B | 23160 |
| 2065A | 23062-B | 23161 |
| 2065A | 23062-B | 23162 |
| 2065A | 23062-B | 23184 |
| 2065A | 23062-B | 23060-07 |
| 2065A | 23061-B | 23061-20 |
| 2065A | 23062-B | 23081-C |
| 2065A | 23062-B | 23161-70 |
| 2065A | 23062-B | 23162-50 |
| 21-104 | 23060-S | 23060 |
| 21-104 | 23060-S | 23062 |
| 21-104 | 23060-S | 23160 |
| 21-104 | 23060-S | 23360 |
| 21-104 | 23060-S | 23060-07 |
| 21-104 | 23060-S | 23081-C |
| 21-105 | 23062-B | 23056 |
| 21-105 | 23062-B | 23060 |
| 21-105 | 23061-B | 23062 |
| 21-105 | 23062-B | 23160 |
| 21-105 | 23062-B | 23161 |
| 21-105 | 23062-B | 23162 |
| 21-105 | 23062-B | 23184 |
| 21-105 | 23062-B | 23060-07 |
| 21-105 | 23061-B | 23061-20 |
| 21-105 | 23062-B | 23081-C |
| 21-105 | 23062-B | 23161-70 |
| 21-105 | 23062-B | 23162-50 |
| 21-123 | 23060-04 | 23060 |
| 21-123 | 23060-04 | 23062 |
| 21-123 | 23060-04 | 23160 |
| 21-123 | 23060-04 | 23058-00 |
| 21-123 | 23060-04 | 23060-07 |
| 21-123 | 23060-04 | 23081-C |
| 21-162 | 23054-01 | 23049 |
| 21-162 | 23054-01 | 23054 |
| 21-162 | 23054-01 | 23160 |
| 21-162 | 23054-01 | 23081-C |
| 21-162B | 23054-01 | 23049 |
| 21-162B | 23054-01 | 23054 |
| 21-162B | 23054-01 | 23160 |
| 21-162B | 23054-01 | 23081-C |
| 21-163 | 23054-03 | 23054 |
| 21-163 | 23054-03 | 23160 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 21-163 | 23054-03 | 23054-50 |
| 21-163 | 23054-03 | 23069-20 |
| 21-168 | 23060-10 | 23160 |
| 21-168 | 23060-10 | 23360 |
| 21-168 | 23060-10 | 23060-10 |
| 21-210 | 23054-02 | 23049 |
| 21-210 | 23054-02 | 23054 |
| 21-210 | 23054-02 | 23160 |
| 21-210 | 23054-02 | 23054-50 |
| 21-229 | 23060-16 | 23360 |
| 21-230 | 23060-18 | 23360 |
| 21-234 | 23060-12 | 23159 |
| 21-234 | 23060-12 | 23175 |
| 21-238 | 23175-02 | 23175 |
| 21-251 | 23060-12 | 23159 |
| 21-251 | 23060-14 | 23159 |
| 21-251 | 23060-12 | 23175 |
| 21-259 | 23054-05 | 23360 |
| 21-259 | 23054-05 | 23054-50 |
| 21-260 | 23069-04 | 23049 |
| 21-260 | 23069-04 | 23100 |
| 21-260 | 23069-04 | 23159 |
| 21-260 | 23069-04 | 23175 |
| 21-260 | 23069-04 | 23061-00 |
| 21-260 | 23069-04 | 23061-60 |
| 21-260 | 23069-04 | 23061-70Pk |
| 21-260 | 23069-04 | 23061-80 |
| 21-262 | 23060-11 | 23159 |
| 21-262 | 23060-11 | 23175 |
| 21-263 | 23069-25 | 23159 |
| 21-263 | 23069-25 | 23173 |
| 21-263 | 23069-25 | 23175 |
| 21-263 | 23069-25 | 23061-00 |
| 21-263 | 23069-25 | 23061-60 |
| 21-263 | 23069-25 | 23061-70Pk |
| 21-263 | 23069-25 | 23069-60 |
| 23-019 | 23060-01 | 23060 |
| 23-019 | 23060-01 | 23062 |
| 23-019 | 23060-01 | 23160 |
| 23-019 | 23060-01 | 23060-07 |
| 23-019 | 23060-01 | 23081-C |
| 23-020 | 23060-07 | 23060 |
| 23-020 | 23060-07 | 23062 |
| 23-020 | 23060-07 | 23160 |
| 23-020 | 23060-07 | 23060-07 |
| 23-020 | 23060-07 | 23081-C |
| 23-029 | 23069-35 | 23160 |
| 23-047 | 23061-01 | 23056 |
| 23-047 | 23061-01 | 23062 |
| 23-047 | 23061-01 | 23160 |
| 23-047 | 23061-01 | 23161 |
| 23-047 | 23061-01 | 23162 |
| 23-047 | 23061-01 | 23061-20 |
| 23-047 | 23061-01 | 23081-C |
| 23-047 | 23061-01 | 23161-70 |
| 23-047 | 23061-01 | 23162-50 |
| 23-058 | 23069-12 | 23160 |
| 23-058 | 23069-12 | 23161 |
| 23-058 | 23069-12 | 23162 |
| 23-058 | 23069-12 | 23162-50 |
| 23-059 | 23161-03 | 23150 |
| 23-059 | 23161-03 | 23160 |
| 23-059 | 23161-03 | 23161 |
| 23-059 | 23161-03 | 23162 |
| 23-059 | 23161-03 | 23161-50 |
| 23-059 | 23161-03 | 23162-50 |
| 2mm Drill Bit | 23048-07 | 23148 |
| 2mm Drill Bit | 23048-07 | 23249 |
| 2mm Drill Bit | 23048-07 | 23048-00 |
| 3.3mm Drill Bit | 23161-25 | 23280 |
| 303 193 | 23060-S | 23060 |
| 303 193 | 23060-S | 23062 |
| 303 193 | 23060-S | 23160 |
| 303 193 | 23060-S | 23360 |
| 303 193 | 23060-S | 23060-07 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 303 193 | 23060-S | 23081-C |
| 303 376B | 23054-06 | 23360 |
| 303 376B | 23054-06 | 23054-50 |
| 303 376B | 23054-06 | 23069-20 |
| 303-1054 | 23161-94 | 23360 |
| 303-1054 | 23060-17 | 23360 |
| 303-1054 | 23161-94 | 23161-50 |
| 303-1054 | 23161-94 | 23162-90 |
| 303-1059 | 23060-19 | 23360 |
| 303-1097 | 23060-21 | 23360 |
| 303-1116 | 23079-04 | 23079 |
| 303-1117 | 23079-03 | 23079 |
| 303-1126 | 23079-02 | 23079 |
| 303-1132 | 23079-01 | 23079 |
| 303-1151 | 23175-01 | 23175 |
| 303-1468 | 23221 | 23220 |
| 303-1469 | 23222 | 23220 |
| 303-367 | 23054-01 | 23049 |
| 303-367 | 23054-01 | 23054 |
| 303-367 | 23054-01 | 23160 |
| 303-367 | 23054-01 | 23081-C |
| 303-376 | 23054-01 | 23049 |
| 303-376 | 23054-01 | 23054 |
| 303-376 | 23054-01 | 23160 |
| 303-376 | 23054-01 | 23081-C |
| 303-393 | 23060-10 | 23160 |
| 303-393 | 23060-10 | 23360 |
| 303-393 | 23060-10 | 23060-10 |
| 303-393-01 | 23060-10C | 23160 |
| 303-393-01 | 23060-10C | 23360 |
| 303-393-02 | 23060-10B | 23360 |
| 303-507 | 23054-02 | 23049 |
| 303-507 | 23054-02 | 23054 |
| 303-507 | 23054-02 | 23160 |
| 303-507 | 23054-02 | 23054-50 |
| 303-620 | 23054-03 | 23054 |
| 303-620 | 23054-03 | 23160 |
| 303-620 | 23054-03 | 23054-50 |
| 303-620 | 23054-03 | 23069-20 |
| 303-651 | 23060-16 | 23360 |
| 303-652 | 23060-18 | 23360 |
| 303-679 | 23175-02 | 23175 |
| 303-698 | 23060-12 | 23159 |
| 303-698 | 23060-14 | 23159 |
| 303-698 | 23060-12 | 23175 |
| 303-732 | 23069-04 | 23049 |
| 303-732 | 23069-04 | 23100 |
| 303-732 | 23069-04 | 23159 |
| 303-732 | 23069-04 | 23175 |
| 303-732 | 23069-04 | 23061-00 |
| 303-732 | 23069-04 | 23061-60 |
| 303-732 | 23069-04 | 23061-70Pk |
| 303-732 | 23069-04 | 23061-80 |
| 303-734 | 23060-11 | 23159 |
| 303-734 | 23060-11 | 23175 |
| 303-735 | 23069-25 | 23159 |
| 303-735 | 23069-25 | 23173 |
| 303-735 | 23069-25 | 23175 |
| 303-735 | 23069-25 | 23061-00 |
| 303-735 | 23069-25 | 23061-60 |
| 303-735 | 23069-25 | 23061-70Pk |
| 303-735 | 23069-25 | 23069-60 |
| 303-748 | 23054-05 | 23360 |
| 303-748 | 23054-05 | 23054-50 |
| 303-947 | 23111-11 | 23111-10 |
| 3036 | 23106 | 23106 |
| 310-083A | 23002-45C | 23175 |
| 310-084 | 23069-12 | 23160 |
| 310-084 | 23069-12 | 23161 |
| 310-084 | 23069-12 | 23162 |
| 310-084 | 23069-12 | 23162-50 |
| 310-085 | 23161-03 | 23150 |
| 310-085 | 23161-03 | 23160 |
| 310-085 | 23161-03 | 23161 |
| 310-085 | 23161-03 | 23162 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 310-085 | 23161-03 | 23161-50 |
| 310-085 | 23161-03 | 23162-50 |
| 3242 | 23056-01 | 23049 |
| 3242 | 23056-01 | 23056 |
| 3242 | 23056-01 | 23162 |
| 3242 | 23056-01 | 23280 |
| 3242 | 23056-01 | 23056-50 |
| 3242 | 23056-B | 23056-B |
| 3242 | 23056-01 | 23162-50 |
| 3268 | 23161-10 | 23161-10 |
| 3313 | 23072 | 23075 |
| 3313 | 23072 | 23076 |
| 3313 | 23072 | 23111 |
| 3313 | 23072 | 23081-C |
| 3313 | 23072 | 23162-30 |
| 3313 | 23072 | 23162-40 |
| 3313 | 23072 | 23162-90 |
| 3355 | 23161-16 | 23184 |
| 3359 | 23069-11 | 23160 |
| 3359 | 23069-11 | 23161 |
| 3359 | 23069-11 | 23162 |
| 3359 | 23069-11 | 23280 |
| 3359 | 23069-11 | 23161-50 |
| 3359 | 23069-11 | 23162-50 |
| 3366 | 23161-92 | 23161-90 |
| 3366 | 23161-92 | 23162-90 |
| 3369 | 23161-07 | 23161 |
| 3369 | 23161-07 | 23162 |
| 3369 | 23161-07 | 23056-50 |
| 3369 | 23161-07 | 23161-09 |
| 3369 | 23161-07 | 23162-50 |
| 3387 | 23044-03 | 23162 |
| 3387 | 23044-03 | 23044-03 |
| 3387 | 23044-03 | 23162-50 |
| 3387 | 23044-03 | 23162-90 |
| 3391 | 23056-A | 23056 |
| 3391 | 23056-A | 23056-A |
| 3411 | 23161-08 | 23161-09 |
| 3418 | 23161-B | 23161 |
| 3418 | 23161-B | 23162 |
| 3418 | 23164-03 | 23058-00 |
| 3418 | 23161-B | 23161-B |
| 3418 | 23161-B | 23162-50 |
| 3418 | 23164-03 | 23164-03 |
| 3458 | 23056-02 | 23049 |
| 3458 | 23056-02 | 23056 |
| 3458 | 23056-02 | 23162 |
| 3458 | 23056-02 | 23056-50 |
| 3458 | 23056-02 | 23162-50 |
| 4507-TA | 23055-01 | 23049 |
| 4507-TA | 23055-01 | 23055 |
| 4507-TA | 23055-01 | 23061-00 |
| 4507-TA | 23055-01 | 23061-60 |
| 4507-TB | 23055-02 | 23049 |
| 4507-TB | 23055-02 | 23055 |
| 4507-TB | 23055-02 | 23061-00 |
| 4507-TB | 23055-02 | 23061-60 |
| 4507-TJ | 23053 | 23049 |
| 4507-TJ | 23053 | 23053 |
| 4507-TJ | 23053 | 23055 |
| 4507-TJ | 23053 | 23061-00 |
| 4507-TJ | 23053 | 23061-60 |
| 4507-TL | 23055-05 | 23061-00 |
| 4507-TL | 23055-05 | 23061-60 |
| 4527-T.S1 | 23069-31 | 23061-00 |
| 4527-T.S1 | 23069-31 | 23061-60 |
| 4527-T.S2 | 23069-04 | 23049 |
| 4527-T.S2 | 23069-04 | 23100 |
| 4527-T.S2 | 23069-04 | 23159 |
| 4527-T.S2 | 23069-04 | 23175 |
| 4527-T.S2 | 23069-04 | 23061-00 |
| 4527-T.S2 | 23069-04 | 23061-60 |
| 4527-T.S2 | 23069-04 | 23061-70Pk |
| 4527-T.S2 | 23069-04 | 23061-80 |
| 4533-TAC1 | 23069-32 | 23061-00 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 4533-TAC1 | 23069-32 | 23061-60 |
| 4533-TAC2 | 23069-33 | 23061-00 |
| 4533-TAC2 | 23069-33 | 23061-60 |
| 4533-TAC2 | 23069-33 | 23061-70Pk |
| 4533-TAD | 23069-53 | 23061-00 |
| 4533-TAD | 23069-53 | 23061-60 |
| 4533-TAD | 23069-53 | 23061-70Pk |
| 4533-TAD | 23069-53 | 23069-53 |
| 4533-TAD | 23069-53 | 23069-60 |
| 4533-TZ | 23005 | 23005 |
| 49JE01 054 | 23054-01 | 23049 |
| 49JE01 054 | 23054-01 | 23054 |
| 49JE01 054 | 23054-01 | 23160 |
| 49JE01 054 | 23054-01 | 23081-C |
| 49JE01 061 | 23069-25 | 23159 |
| 49JE01 061 | 23069-25 | 23173 |
| 49JE01 061 | 23069-25 | 23175 |
| 49JE01 061 | 23069-25 | 23061-00 |
| 49JE01 061 | 23069-25 | 23061-60 |
| 49JE01 061 | 23069-25 | 23061-70Pk |
| 49JE01 061 | 23069-25 | 23069-60 |
| 50009 | 23161-15 | 23161-70 |
| 5711-TA | 23060-04 | 23060 |
| 5711-TA | 23060-04 | 23062 |
| 5711-TA | 23060-04 | 23160 |
| 5711-TA | 23060-04 | 23058-00 |
| 5711-TA | 23060-04 | 23060-07 |
| 5711-TA | 23060-04 | 23081-C |
| 5711-TB | 23060-02 | 23060 |
| 5711-TB | 23060-02 | 23062 |
| 5711-TB | 23060-02 | 23360 |
| 5711-TB | 23060-02 | 23060-07 |
| 5711-TB | 23060-02 | 23081-C |
| 5711-TC | 23060-03 | 23060 |
| 5711-TC | 23060-03 | 23062 |
| 5711-TC | 23060-03 | 23060-07 |
| 5711-TC | 23069-34 | 23061-00 |
| 5711-TC | 23069-34 | 23061-60 |
| 5711-TC | 23060-03 | 23081-C |
| 5711-TD | 23069-04 | 23049 |
| 5711-TD | 23069-04 | 23100 |
| 5711-TD | 23069-04 | 23159 |
| 5711-TD | 23069-04 | 23175 |
| 5711-TD | 23069-04 | 23061-00 |
| 5711-TD | 23069-04 | 23061-60 |
| 5711-TD | 23069-04 | 23061-70Pk |
| 5711-TD | 23069-04 | 23061-80 |
| 5711-TE | 23069-44 | 23061-00 |
| 5711-TE | 23069-44 | 23061-60 |
| 5193 | 23061-01 | 23056 |
| 5193 | 23061-01 | 23062 |
| 5193 | 23061-01 | 23160 |
| 5193 | 23061-01 | 23161 |
| 5193 | 23061-01 | 23162 |
| 5193 | 23061-01 | 23061-20 |
| 5193 | 23061-01 | 23081-C |
| 5193 | 23061-01 | 23161-70 |
| 5193 | 23061-01 | 23162-50 |
| 5199 | 23106 | 23106 |
| 6 mm. | 23060-02 | 23060 |
| 6 mm. | 23060-02 | 23062 |
| 6 mm. | 23060-02 | 23360 |
| 6 mm. | 23060-02 | 23060-07 |
| 6 mm. | 23060-02 | 23081-C |
| 6012T | 23111-02 | 23111 |
| 6012T | 23111-02 | 23150 |
| 6012T | 23111-02 | 23061-00 |
| 6012T | 23111-02 | 23061-60 |
| 6012T | 23111-02 | 23111-02 |
| 6016T | 23106 | 23106 |
| 6mm | 23060-02 | 23175 |
| 7004TG | 23061-02 | 23062 |
| 7004TG | 23061-02 | 23158 |
| 7004TG | 23061-02 | 23061-00 |
| 7004TG | 23061-02 | 23061-10 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 7004TG | 23061-02 | 23061-60 |
| 7004TG | 23061-02 | 23081-C |
| 7014-TJ | 23061-02 | 23062 |
| 7014-TJ | 23061-02 | 23158 |
| 7014-TJ | 23061-02 | 23061-00 |
| 7014-TJ | 23061-02 | 23061-10 |
| 7014-TJ | 23061-02 | 23061-60 |
| 7014-TJ | 23061-02 | 23081-C |
| 7014-TM | 23055-03 | 23049 |
| 7014-TM | 23055-03 | 23055 |
| 7014-TM | 23055-03 | 23061-00 |
| 7014-TM | 23055-03 | 23061-60 |
| 7015-T | 23069-57 | 23061-00 |
| 7015-T | 23069-57 | 23061-60 |
| 7017-TR | 23061-06 | 23061-00 |
| 7017-TR | 23061-06 | 23061-60 |
| 7017-TW | 23069-51 | 23061-00 |
| 7017-TW | 23069-51 | 23061-60 |
| 7099TM | 23061-07 | 23061-00 |
| 7099TM | 23061-07 | 23061-60 |
| 7099-TM | 23061-07 | 23061-00 |
| 7099-TM | 23061-07 | 23061-60 |
| 8 mm | 23061-02 | 23062 |
| 8 mm | 23061-02 | 23158 |
| 8 mm | 23061-02 | 23061-00 |
| 8 mm | 23061-02 | 23061-10 |
| 8 mm | 23061-02 | 23061-60 |
| 8 mm | 23061-02 | 23081-C |
| 83 95 337 | 23164-07 | 23167 |
| 83 95 337 | 23164-07 | 23168 |
| 83 95 337 | 23164-07 | 23058-00 |
| 83 95 352 | 23164-08 | 23167 |
| 83 95 352 | 23164-08 | 23168 |
| 83 95 352 | 23164-08 | 23058-00 |
| 83 95 386 | 23164-09 | 23167 |
| 83 95 386 | 23164-09 | 23168 |
| 83 95 386 | 23164-09 | 23058-00 |
| 83 95 395 | 23164-05 | 23167 |
| 83 95 395 | 23164-06 | 23167 |
| 83 95 395 | 23164-05 | 23168 |
| 83 95 395 | 23164-06 | 23168 |
| 83 95 395 | 23164-05 | 23058-00 |
| 83 95 395 | 23164-06 | 23058-00 |
| 8929 | 23241-03 | 23241 |
| 8932 | 23241-01 | 23241 |
| 8933 | 23241-02 | 23241 |
| 9041-TZ | 23055-02 | 23049 |
| 9041-TZ | 23055-02 | 23055 |
| 9041-TZ | 23055-02 | 23061-00 |
| 9041-TZ | 23069-34 | 23061-00 |
| 9041-TZ | 23055-02 | 23061-60 |
| 9041-TZ | 23069-34 | 23061-60 |
| 9044-T | 23069-46 | 23061-00 |
| 9044-T | 23069-46 | 23061-60 |
| 9767-34 | 23061-02 | 23062 |
| 9767-34 | 23061-02 | 23158 |
| 9767-34 | 23061-02 | 23061-00 |
| 9767-34 | 23061-02 | 23061-10 |
| 9767-34 | 23061-02 | 23061-60 |
| 9767-34 | 23061-02 | 23081-C |
| 9765.54 | 23111-02 | 23111 |
| 9765.54 | 23111-02 | 23150 |
| 9765.54 | 23111-02 | 23061-00 |
| 9765.54 | 23111-02 | 23061-60 |
| 9765.54 | 23111-02 | 23111-02 |
| 9767.27 | 23055-02 | 23049 |
| 9767.27 | 23055-02 | 23055 |
| 9767.27 | 23055-02 | 23061-00 |
| 9767.27 | 23055-02 | 23061-60 |
| 9767.89 | 23053 | 23049 |
| 9767.89 | 23053 | 23053 |
| 9767.89 | 23053 | 23055 |
| 9767.89 | 23053 | 23061-00 |
| 9767.89 | 23053 | 23061- |
| 609767.94 | 23060-03 | 23060 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 9767.94 | 23060-03 | 23062 |
| 9767.94 | 23060-03 | 23060-07 |
| 9767.94 | 23060-03 | 23081-C |
| 99360614 | 23100-01 | 23100 |
| 99360615 | 23100-02 | 23100 |
| 999 5645 | 23106 | 23106 |
| 999 5649 | 23161-16 | 23184 |
| 999 7151 | 23054-01 | 23049 |
| 999 7151 | 23054-01 | 23054 |
| 999 7151 | 23054-01 | 23160 |
| 999 7151 | 23054-01 | 23081-C |
| 999 7152 | 23054-05 | 23360 |
| 999 7152 | 23054-05 | 23054-50 |
| 999 7201 | 23054-03 | 23054 |
| 999 7201 | 23054-03 | 23160 |
| 999 7201 | 23054-03 | 23054-50 |
| 999 7201 | 23054-03 | 23069-20 |
| 999-5190 | 23062-B | 23056 |
| 999-5190 | 23062-B | 23060 |
| 999-5190 | 23062-B | 23160 |
| 999-5190 | 23062-B | 23161 |
| 999-5190 | 23062-B | 23162 |
| 999-5190 | 23062-B | 23184 |
| 999-5190 | 23062-B | 23060-07 |
| 999-5190 | 23062-B | 23081-C |
| 999-5190 | 23062-B | 23161-70 |
| 999-5190 | 23062-B | 23162-50 |
| 999-5193 | 23061-01 | 23056 |
| 999-5193 | 23061-01 | 23062 |
| 999-5193 | 23061-01 | 23160 |
| 999-5193 | 23061-01 | 23161 |
| 999-5193 | 23061-01 | 23162 |
| 999-5193 | 23061-01 | 23061-20 |
| 999-5193 | 23061-01 | 23081-C |
| 999-5193 | 23061-01 | 23161-70 |
| 999-5193 | 23061-01 | 23061-20 |
| 999-5193 | 23061-01 | 23081-C |
| 999-5193 | 23061-01 | 23161-70 |
| 999-5193 | 23061-01 | 23162-50 |
| 999-5382 | 23067-02 | 23075 |
| 999-5382 | 23067-10 | 23075 |
| 999-5382 | 23067-10 | 23081-C |
| 999-5382 | 23067-02 | 23081-C |
| 999-5451 | 23069-41 | 23069-00 |
| 999-5451 | 23069-41 | 23069-20 |
| 999-5451 | 23069-41 | 23069-40 |
| 999-5452 | 23069-47 | 23069-00 |
| 999-5452 | 23069-47 | 23069-20 |
| 999-5452 | 23069-47 | 23069-40 |
| 999-5452 | 23069-47 | 23069-47 |
| 999-5649 | 23161-16 | 23184 |
| 999-5705 | 23106 | 23106 |
| 999-5709 | 23045-01 | 23045 |
| 999-7119 | 23060-10 | 23160 |
| 999-7119 | 23060-10 | 23360 |
| 999-7119 | 23060-10 | 23060-10 |
| 999-7120 | 23060-10C | 23160 |
| 999-7120 | 23060-10C | 23360 |
| 999-7120 | 23060-10B | 23360 |
| 999-7121 | 23060-11 | 23159 |
| 999-7121 | 23060-11 | 23175 |
| 999-7122 | 23069-25 | 23159 |
| 999-7122 | 23069-25 | 23173 |
| 999-7122 | 23069-25 | 23175 |
| 999-7122 | 23069-25 | 23061-00 |
| 999-7122 | 23069-25 | 23061-60 |
| 999-7122 | 23069-25 | 23061-70Pk |
| 999-7122 | 23069-25 | 23069-60 |
| 999-7151 | 23054-06 | 23360 |
| 999-7151 | 23054-06 | 23054-50 |
| 999-7151 | 23054-06 | 23069-20 |
| 999-7152 | 23054-02 | 23049 |
| 999-7152 | 23054-02 | 23054 |
| 999-7152 | 23054-02 | 23160 |
| 999-7152 | 23054-02 | 23054-50 |
| 999-7169 | 23069-04 | 23049 |
| 999-7169 | 23069-04 | 23100 |
| 999-7169 | 23069-04 | 23159 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
| 999-7169 | 23069-04 | 23175 |
| 999-7169 | 23069-04 | 23061-00 |
| 999-7169 | 23069-04 | 23061-60 |
| 999-7169 | 23069-04 | 23061-70Pk |
| 999-7169 | 23069-04 | 23061-80 |
| 111589031500 | 23241-03 | 23241 |
| 601589024000 | 23241-01 | 23241 |
| 602589004000 | 23241-02 | 23241 |
| EN-46781 | 23171-02 | 23168 |
| EN-46781 | 23171-02 | 23171 |
| EN-46781 | 23171-02 | 23174 |
| EN-46785 | 23174-02 | 23174 |
| EN-46788 | 23174-03 | 23168 |
| EN-46788 | 23174-03 | 23174 |
| EN-46789 | 23174-04 | 23168 |
| EN-46789 | 23174-04 | 23174 |
| EN-46789-100 | 23174-05 | 23168 |
| EN-46789-100 | 23174-05 | 23174 |
| Facom D86 | 23111-02 | 23111 |
| Facom D86 | 23111-02 | 23150 |
| Facom D86 | 23111-02 | 23061-00 |
| Facom D86 | 23111-02 | 23061-60 |
| Facom D86 | 23111-02 | 23111-02 |
| Hazet 2587 | 23044-01 | 23161 |
| Hazet 2587 | 23044-01 | 23162 |
| Hazet 2587 | 23044-01 | 23044-01 |
| Hazet 2587 | 23044-01 | 23162-50 |
| KM 517B | 23058-03 | 23150 |
| KM 517B | 23058-03 | 23058-00 |
| KM 517B | 23058-03 | 23058-03 |
| KM 571A | 23072-A | 23075 |
| KM 571A | 23072-A | 23076 |
| KM 571A | 23072-A | 23111 |
| KM 571A | 23072 | 23081-C |
| KM 571A | 23072-A | 23162-30 |
| KM 571A | 23072-A | 23162-40 |
| KM 571A | 23072-A | 23162-90 |
| KM 571-B | 23070 | 23058-00 |
| KM 6011 | 23060-04 | 23060 |
| KM 6011 | 23060-04 | 23062 |
| KM 6011 | 23060-04 | 23160 |
| KM 6011 | 23060-04 | 23058-00 |
| KM 6011 | 23060-04 | 23060-07 |
| KM 6011 | 23060-04 | 23081-C |
| KM 6077 | 23164-23 | 23172 |
| KM 6077 | 23164-23 | 23164-21 |
| KM 6077 | 23164-23 | 23166-22 |
| KM 6130 | 23174-01 | 23174 |
| KM 6148 | 23164-22 | 23172 |
| KM 6148 | 23164-22 | 23164-21 |
| KM 6148 | 23164-22 | 23166-22 |
| KM 6203 | 23164-18 | 23172 |
| KM 6203 | 23164-18 | 23173 |
| KM 6204 | 23164-19 | 23172 |
| KM 6204 | 23164-19 | 23173 |
| KM 6205 | 23164-20 | 23172 |
| KM 6205 | 23164-20 | 23173 |
| KM 6333 | 23058-05 | 23058-04 |
| KM 6340 | 23058-06 | 23058-04 |
| KM 652 | 23164-03 | 23058-00 |
| KM 652 | 23164-03 | 23164-03 |
| KM 661-01 | 23063-01 | 23063 |
| KM 661-01 | 23063-01 | 23058-00 |
| KM 661-2 | 23163-01 | 23165 |
| KM 661-2 | 23163-01 | 23058-00 |
| KM 661-2 | 23163-01 | 23081-C |
| KM 666 | 23046 | 23046 |
| KM 666 | 23046 | 23058-00 |
| KM 800-1 | 23047-03 | 23047 |
| KM 800-1 | 23047-03 | 23150 |
| KM 800-1 | 23047-03 | 23047-04 |
| KM 800-10 | 23047-01 | 23047 |
| KM 800-10 | 23047-01 | 23047-01 |
| KM 800-2 | 23047-04 | 23047 |
| KM 800-2 | 23047-04 | 23150 |

| OEM Tool Code | Eldon Code | Eldon Set |
|---|---|---|
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| KM 800-20 | 23047-02 | 23047-02 |
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| KM 8070 | 23052 | 23058-00 |
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| KM 811 | 23048-04 | 23048-00 |
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| KM 813 | 23048-01 | 23148 |
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| KM 823 | 23048-12 | 23048-00 |
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| KM 851 | 23164-01 | 23058-00 |
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| KM 852 | 23058-01 | 23049 |
| KM 852 | 23058-01 | 23150 |
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| KM 853 | 23058-02 | 23058-00 |
| KM 853 | 23058-02 | 23058-02 |
| KM 911 | 23164-04 | 23058-00 |
| KM 911 | 23164-04 | 23164-04 |
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| KM 929 | 23164-08 | 23168 |
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| LDV102 | 23069-45 | 23069-20 |
| LDV102 | 23069-45 | 23069-40 |
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| LRT 12-108 | 23048-01 | 23048 |
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| LRT 12-174 | 23048-11 | 23048-00 |
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| LRT 12-187 | 23078-02 | 23078 |
| LRT 12-198 | 23078-07 | 23078 |
| LRT 12-232 | 23078-08 | 23078 |
| LRT 12R-208 | 23078-03 | 23078 |
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| M10 x 70mm | 23055-02 | 23055 |
| M10 x 70mm | 23055-02 | 23061-00 |
| M10 x 70mm | 23055-02 | 23061-60 |
| M10 x 70mm. | 23055-02 | 23049 |
| M10 x 70mm. | 23055-02 | 23055 |
| M10 x 70mm. | 23055-02 | 23061-00 |
| M10 x 70mm. | 23055-02 | 23061-60 |
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| M5 x 55mm | 23161-05 | 23162 |
| M5 x 55mm | 23161-05 | 23162-50 |
| M5 x 60mm | 23161-04 | 23161 |
| M5 x 60mm | 23161-04 | 23162 |
| M5 x 60mm | 23161-04 | 23162-50 |
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| M6 x 30mm Setscrew | 23061-08 | 23173 |
| M6 x 30mm Setscrew | 23061-08 | 23058-00 |
| M6 x 30mm Setscrew | 23061-08 | 23069-00 |
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| M8 x 35mm | 23061-03 | 23158 |
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| M8 x 40mm | 23061-04 | 23061-60 |
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| M8 x 60mm | 23164-19E | 23172 |
| M8 x 60mm | 23164-19E | 23173 |
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| Matra V159 | 23044-01 | 23162 |
| Matra V159 | 23044-01 | 23044-01 |
| Matra V159 | 23044-01 | 23162-50 |
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| MD998767 | 23045-01 | 23045 |
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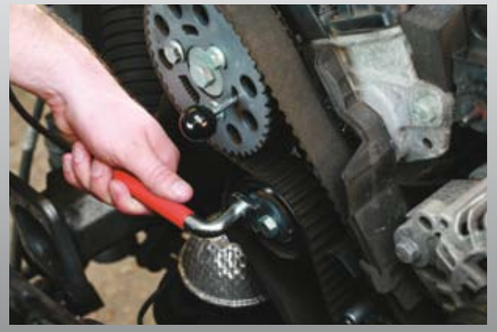

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