



TDC FINDER – (Top Dead Centre)

AST5005

An essential tool for "finding" top dead centre (TDC) position on Petrol and Diesel engines during engine timing procedures and/or prior to timing pin insertion.

The "TDC Finder" locates into the spark plug / glow plug hole, and as the engine is rotated, clearly shows when the piston has achieved TDC by visible movement of the Indicator Float.

- **SAVES TIME + MONEY -**

Quickly and simply determines TDC position for engine timing.

- **UNIVERSAL APPLICATION -**

For Petrol and Diesel engines in cars & vans.

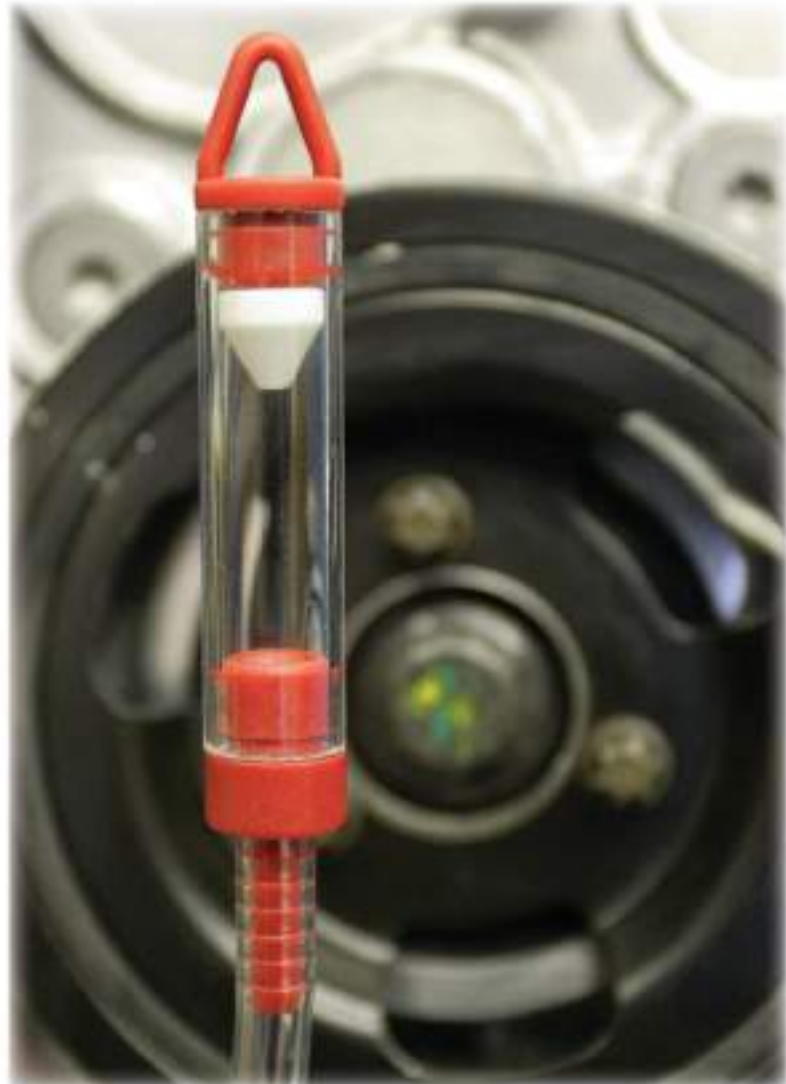
- **COMPLETE WITH -**

- Adaptors for 8mm to 18mm spark plug and glow plug holes.
- Extension Piece to overcome difficult access / reach deep seated spark plug holes.
- Magnetic attachment for **Hands Free** use.

- **DETAILED INSTRUCTIONS -**

Action Video instruction on set-up and use of the tool.

Replacement Adaptors - 8/10/12/14/18mm + Extension Piece are available as Spares Set - AST5006.





MULTI-LOCK – Twin Cams / Quad Cams

AST4500

Universal Sprocket Locking Device for Twin Cam & Quad Cam engines.

Locks into teeth of sprockets to retain camshaft timing position during timing belt replacement.

- Great time saver - "Acts as a second pair of hands"
- Features Adjustable arms and variable pitch to provide wide engine application coverage.
- Slotted head design allows fitting on Flanged Sprockets
- Ratchet Locking Handles - lever action ensures firm fix.



With this tool you will also need . . .

Extension Bridge Piece AST4501 extends distance between Locking Arms to provide even greater application coverage.



AST4501



UNI-LOCK – Single Cams

AST4650

Universal Sprocket Locking Device for single cam & two cam V engines plus diesel injection pump sprockets.

Maintains camshaft/sprocket on timing marks during belt replacement applications.

- Reach for the UNI-LOCK when you need to "clamp" that sprocket in timed position.
- Super Compact design provides wide application coverage.
- Very Easy to fit – ensures sprocket stays on its timing mark.
- Time saving aid.



MULTI-LOCK / UNI-LOCK Combination Set

AST4695

A Super Universal Timing Set comprising:-

- **AST4500 Multi-Lock II** for twin cam and quad cam engines
- **AST4501 Extension Bridge** Piece for Multi-Lock II
- **AST4650 Uni-Lock** for single cam, two cam V and diesel pump sprockets

Set provides a wide ranging 'Sprocket Locking onto timing mark' capability on a range of engines.





Camshaft Sprocket Holding Tools

AST4394 & AST4844

Many engine timing procedures require the camshaft sprocket(s) to be 'free to turn' on the camshaft during belt tensioning or timing adjustment.

AST Sprocket Holding Tools provide a safe and correct means of counter-holding the sprocket whilst releasing and tightening the sprocket bolt/nut.



AST4394

AST4844

4 x sizes Inter-changeable Location Pins

Belt Tension Tester

AST4395A

Simple yet effective and accurate set-up... based on thickness of the belt.

Tension status is clearly indicated by position of the tester plunger.

- Straightforward to use – no complicated conversions or tables
- Quickly assesses correct timing belt tension for each application
- No need to know manufacturer's specifications
- Suitable for up to **30mm** wide timing belts



Pin Set – Automatic Tensioners

AST4593

Set of 6 Spring Steel Pins for retaining tensioner plunger in 'locked-down' position whilst replacing timing belts.

- Pins are spring steel, double wound for strength.
- Pin sizes 0.80 to 1.90mm.





Auxiliary/Serpentine Belt Tool Set

AST4765

- Designed to overcome restricted working space in this area of the engine compartment.
- Long handle, incorporates a Ratchet Drive.
- Complete with 13, 14, 15, 16 & 18mm sockets PLUS 3/8" & 1/2" drives.
- Belt Remover/Installer provides reach and manoeuvrability to thread the belt around the pulley system.



Crankshaft Pulley Remover (Ribbed Belts)

AST4969

A compact, sturdy Remover that fixes firmly onto the Ribbed Pulleys commonly found on modern car engines, and works in the limited space of the engine compartment.

- For removal of Ribbed Auxiliary Pulleys – **Crankshafts, Air Conditioning, Alternators etc.**
- Special **Low Profile** and **Jaw design**
 - works in limited space available
 - clamps securely on to pulley grooves.
- Wide range – **45 to 175mm** diameter pulleys.



Multi-Position Camshaft Sprocket Remover

AST4989

A quality, Universal Sprocket Remover, designed to provide numerous fixing positions and diameter configurations to fix into the sprocket spokes or holes.

- Super **MULTI-POSITION** Sprocket Remover
- Compact design for use in restricted space
- Legs adjust to **MULTI-POSITIONS** providing **9 different configurations** to fit into Spokes or Holes commonly found on camshaft and other sprockets.





Petrol 0.9 TwinAir (Chain) AST5110

Models:
Mito

Engines:
312A2000

Also for CHRYSLER, FIAT and LANCIA models.



Petrol 1.4 Turbo MultiAir AST5050

Models:
Mito
Giuletta

Engines:
940A2000
955A2000
955A6000
955A7000
955A8000

Also for FIAT and LANCIA models.



With this kit you will also need . . .
AST4844 Camshaft Sprocket Holding Tool



AST4844



Petrol Twin Spark 1.4 to 2.0 16v. / 2.0JTS (Belt) AL-Fi System

AST4910

The **AL-Fi** System has been developed by AST to offer a universal and flexible solution to camshaft timing on ALFA ROMEO and FIAT 16v. engines.

Engine timing and belt replacement on this range of engines requires the camshafts to be 'set' in their 'timed' positions by use of Camshaft Setting Plates fixed on the engine in place of designated bearing caps at specified cylinder locations.

The **AL-Fi** concept is based on Universal Support Blocks (one for all inlet camshafts and one for all exhaust camshafts), on to which a range of inter-changeable Setting Plates can be mounted.

Each group of Setting Plates cover a range of engines thus avoiding the need for lots of single dedicated 'engine specific' camshaft plates.

The initial application range can be easily expanded simply by adding further Setting Plate Sets covering more models and engines as the need arises.



Wide application coverage
based on AL-Fi
Universal Camshaft
Setting Plate System

Models:

145 (96-01)	166 (98-07)
146 (96-01)	Spider (95-06)
147 (01-09)	GTV (98-06)
155 (95-98)	GT (04-09)
156 (97-06)	

Engines:

1.4 16v.TS	1.6 16v.TS	1.6 16v.TS	1.8 16v.TS	2.0 16v.TS	2.0 JTS
335.03	(105CV)	(120CV)	322.01	162.01	932A2.000
	372.03	321.02	322.05 (156)	323.01	937A1.000
		321.03	671.06	323.10	
		321.04		341.03	
		676.01		363.01	
				672.04	



With this kit you will also need ...

AST4519
TDC Positioning Tool –
All engines
(Requires suitable DTI
such as AST3054-10)



AST4519

AST4528
Flywheel Holding Tool
(Crank Pulley removal)
2.0JTS engines



AST4528

AST4774
Twin camshaft/JTS engines
Removal/ Installation of
Variable Valve/Camshaft
Timing Unit "Variator"



AST4774



Petrol 1.8 16v (Belt)

AST4995

Models:
159 (05-09)

Engines:
939A4.000



Also for VAUXHALL/OPEL
and FIAT models

Petrol ALFA - FIAT Combination Kit (Belt)

AST4970

Wide application coverage based on AL-Fi Universal Camshaft Setting Plate System

The complete Engine Timing and Belt Replacement Tool Kit for the full range of ALFA ROMEO Twin Spark/JTS 16v. (Belt) and FIAT 1.8 16v. + 2.0/2.4 20v. (Belt) petrol engines.

Utilises the **AL-Fi Universal System** for Camshaft Setting and includes all the Crankshaft and Belt Tensioner Tools required for timing applications on this large range of engines.

ALFA ROMEO

Models:

145, 146, 147, 155, 156, 166, Spider/GTV, GT
1.4, 1.6, 1.8 & 2.0 Twin Spark + 2.0JTS engines

Engines:

162.01, 321.02, 321.03, 321.04, 322.01, 322.05(156), 323.01,
323.10, 335.03, 341.03, 363.01, 372.03, 671.06, 672.04, 676.01,
932A2.000 and 937A1.000

FIAT

Models:

Punto, Brava/Bravo, Marea/Marea Weekend, Barchetta,
Coupe, Stilo, 1.8 16v., 2.0 and 2.4 20v. engines

Engines:

175A3.000, 182A1.000, 182A2.000, 182B3.000, 182B7.000, 183A1.000, 183A6.000,
188A6.000, 192A2.000 and 192A4.000



With this kit you will also need . . .

a suitable DTI such as **AST3054-10** for use with the TDC Positioning Tool

AST3054-10

Petrol 1.75TBI (Belt)

AST5118

Models:

159
Brera
Giulietta
Spider

Engines:

940A1.000
939B1.000



Also for LANCIA
models



Timing Tools

Diesel 1.3D JTDM (Chain) Engine Overhaul Timing Kit

AST5080

Models:
Mito

Engines:
199A3000
199B1000
199B4000

AST5080 – For locking, setting and adjustment of engine timing during engine/cylinder head overhaul procedures. Includes all the tools from AST5085 and AST5086 sets.



Also for FIAT,
FORD, LANCIA,
SUZUKI and
VAUXHALL/OPEL models



With this kit you will also need ...



AST5085 Smaller set for straight forward checking of camshaft and crankshaft timing



AST5085

AST5086 For counter holding the crankshaft and camshafts during engine timing setting and adjustment procedures. Used in conjunction with AST5085



AST5086

AST4884 Crankshaft Timing Position Tool (for applications where gearbox is removed)



AST4884

Diesel 1.9JTD(M) / 2.4JTD (Belt)

AST4850

Models:

145 (96-01)
146 (96-01)
147 (01-09)
156 (97-08)
159 (05-09)
CrossWagon (04-08)
166 (96-08)
GT (04-09)
Brera (05-09)
Spider (06-09)

Engines:

1.9JTD 8v.	1.9JTD 16v.	2.4JTD 10v.	2.4JTD 20v.
323.02	192A5.000	325.01	841G.000
371.01	192B1.000	342.02	841H.000
182B9.000	937A4.000	362.02	841M.000
937A2.000	937A5.000	839A6.000	939A3.000
937A3.000	939A2.000	841C.000	939A9.000
939A1.000	939A8.000		
939A2.000			
939A7.000			

Also for FIAT
and LANCIA models

Coverage includes latest
16v. 1.9JTD(M)
& **20v. 2.4JTD**





Petrol 1.6 N40 / N45 / N45T (Chain)

AST4870

Models:

116i, E81/E87 (03-09)
316i, E46/E90 (01-09)
316Ci, E46 (01-06)
316ti, E46 (01-05)

Engines:

N40 / N45 / N45T
B16
B16A
B16AC



+ With this kit you will also need . . .

To carry out removal & installation of the Timing Chain Assembly and related service work you will also need Timing Chain Service Tool Set **AST5045**

AST5045

Petrol N43 1.6 & 2.0 Twin Cams (Chain)

AST5120

Models:

1 Series E81/82/87/88: 116i, 118i, 120i
1 Series E20/21: 114i, 116i, 118i
3 Series E90/91/92/93: 316i, 318i, 320i
3 Series F30/31: 316i, 320i
5 Series E60/61: 520i

Engines:

1.6
N43 B16A/AA
N43 B16AA
N43 B16AA/00

2.0
N43 B20A
N43 B20A/AA
N43 B20AA
N43 B20AY
N43 B20KD
N43 B20U0





Petrol 1.8 to 3.0 Twin Cams (Chain)

M42 / M44 / M50 / M52 / M52(TU) / M54 / M56

AST4425

Models:

318iS. E36 (92-99)
 318ti. Compact E36 (94-01)
 320i. E36/E46 (92-07)
 323i. E36/E46 (95-01)
 325i. E36/E46 (92-07)
 328i. E36/E46 (95-01)
 330i. E46 (00-07)
 520i. E39/E60 (96-05)
 523i. E39 (96-00)
 525i. E39/E60 (00-05)
 528i. E39 (96-00)
 530i. E39/E60 (00-05)
 728i. E38 (94-02)
 730i. E65 (02-05)
 Z3. (E36) 1.9-3.0 (96-03)
 Z4. (E85) 2.2-3.0 (03-06)
 X3. (E83) 2.5-3.0 (03-07)
 X5. (E53) 3.0 (99-07)

Engines:

M42 / M44 / M50 / M52 no VANOS (VVT)

18 4S 1
 19 4S 1
 20 6S 2 (Early)
 25 6S 2 (Early)

M50 / M52 Single VANOS (VVT) variants

20 6S 2(Later)
 20 6S 3
 25 6S 2(Later)
 25 6S 3
 28 6S 1

M52(TU) / M54 / M56 Twin VANOS (VVT) variants

20 6S 4
 22 6S 1
 25 6S 4
 25 6S 5
 28 6S 2
 30 6S 3

**AST4425 must
be used with
AST4895 Kit**

**AST4425 must be
used with AST4312 Wrench**



With this kit you will also need . . .

For engines with Twin VANOS (VVT) Units

AST4895 Twin VANOS Timing Tool Set

For BMW M52(TU) / M54 / M56 engines.

Essential for dismantling, assembly
and timing of Twin VANOS Unit.

See AST4425 for models/engine
applications.



AST4425



AST4895



Use with
AST4425 KIT

AST4895



Petrol 1.8 & 2.0 N42 / N46 / N46T (Chain)

AST4800 / AST4815

Models:

118i. E87 (04-09)
120i. E87 (04-09)
316i. E46 (01-05)
316ti. Compact E46 (01-05)
318i. E46 (01-07)
318ti. Compact E46 (01-05)
318i. E90 (05-08)
320i. E90 (05-08)
520i. E60 (04-08)
Z4. 2.0 E85 (04-09)
X3. 2.0i. E83 (05-09)

Engines:

N42 / N46 / N46T
B18
B18A
B20
B20A
B20B



AST4800
Engine Timing,
including VANOS alignment



AST4815
Camshaft/Carrier Bracket Removal and Installation

AST4835 Combination Set
1 each AST4800 and AST4815



With these kits you will also need . . .

To carry out removal & installation of the Timing Chain Assembly and related service work you will also need Timing Chain Service Tool Set **AST5045**



AST5045



Petrol 2.5 / 3.0 N51 / N52 / N52K / N53 / N54 (Chain)

AST5000

Models:

128i. E82 (07-09)
130i. E81/87 (05-08)
135iS. E82 (07-09)
323i. E90/91/92/93 (04-09)
325i/xi. E90/91/92/93 (04-09)
328i/xi. E90/91/92/93 (04-08)
330i/xi. E90/91/92/93 (04-09)
335i/xi. E90/91/92/93 (05-09)
523i/Li. E60/61 (04-09)
525i/Li/xi. E60/61 (04-09)
528i/xi. E60/61 (06-08)
530i/Li/xi. E60/61 (05-09)
535i/xi. E60/61 (06-08)
630i. E63/64 (04-08)
730i/Li. E65/66 (04-08)
X3 2.5/3.0 E83 (06-09)
X5 3.0 E70 (06-09)
Z4 2.5/3.0 E85/86 (05-09)

Engines:

N51 / N52 / N52K

Valvetronic

N53 / N54

Direct Injection

Non - Valvetronic



With this kit you will also need . . .

To carry out removal & installation of the Timing Chain Assembly and related service work you will also need **AST5045** Timing Chain Service Tool Set

AST5045



Diesel 2.0d / 3.0 d M47/ TU / T2: M57 / TU / T2 (Chain)

AST4555A

Models:

118d. E87 (03-07)
120d. E87 (03-07)
318d/td. E46/E90/91 (00-08)
320d/cd. E46/E90/91 (97-08)
325d. E90/91/92/93 (06-09)
330d/xd/cd. E46/E90/91/92/93 (98-08)
335d. E90/91/92 (06-09)
520d. E39/E60/61 (99-09)
525d/xd. E39/E60/61 (99-09)
530d/xd. E39/E60/61 (98-09)
535d. E60/61 (04-09)
635d. E63/64 (04-09)
730d/Ld. E38/E65/66 (98-08)
X3. 2.0d. E83 (03-07)
X3. 3.0d/sd. E83 (03-09)
X5. 3.0d. E53/E70 (00-09)

Engines:

M47 / M57
M47TU / M57TU
M47T2 / M57T2
20 4D 1
20 4D 4
25 6D 1
25 6D 2
30 6D 1
30 6D 2
30 6D 3
30 6D 4
30 6D 5

Also for
LR Freelander(Td4)/RANGE ROVER (Td6),
ROVER 75 & VAUXHALL Omega



Timing Tools

+ If removing the pump you will also need . . .

AST4553 Pump Remover / Sprocket Retainer

Retains position of the pump sprocket in-situ, whilst the pump is removed, reducing the level of engine dis-assembly required.



AST4553

+ With this Kit you will also need . . .

AST5013 Crankshaft Turning Tool

To rotate engine (later versions) you will need Crankshaft Turning Tool (M47T2 / M57TU / M57T2)



AST5013

Diesel 2.0d N47 / N47S (Chain)

AST5010

Models:

118d. E81/87 (06-09)
120d. E81/82/87 (06-09)
123d. E81/82/87 (07-09)
318d. E90/91 (07-09)
320d. E90/91/92 (05-09)
520d. E60/61 (06-08)
X3. 2.0d. E83 (07-09)

Engines:

N47 / N47S
D20A



+ If removing the pump you will also need . . .

AST5014 Pump Remover / Sprocket Retainer

Retains position of the HP pump sprocket in-situ, whilst the pump is removed, reducing the level of engine dis-assembly required.



AST5014

BMW MINI – see MINI Timing Tools PAGE 51



Petrol Belt Tensioner Adjuster - Water Pump (Belt)

ASTV501A

Models:

Kalos (04-08)
Aveo (06-08)
Espero/Aranos (95-97)
Nexia (95-97)
Lanos (97-03)
Nubira / Lacetti (97-09)
Cruze (2009)

Engines:

1.4 A13DM A14MS F14S3	1.5 G15MF	1.6 16v. A16DM A16DMS F16D3 LXT
1.4 16v. F14D3	1.5 16v. A15DM A15SMS A15MF	



Petrol 1.6 16v. (Belt)

AST4620

Models:

Cruze (2009)

Engines:

LXT



With this kit you will also need . . .

ASTV501A
Belt Tensioner Adjuster – (Water Pump)



ASTV501A

Petrol 1.4 / 1.6 / 1.8 16v. (Belt)

AST4995

Models:

Aveo (2009)
Cruze (2009)

Engines:

1.4 16v.
G14D

1.6 16v.
LDE, LLU, LXV

1.8 16v.
2HO



Diesel 2.0d VCDi (Belt)

AST5040

Models:

Nubira/Lacetti (07-09)
Evanda/Epica (06-09)
Captiva (07-09)

Engines:

RA420
Z20S1





Diesel 2.1D Turbo (Belt)

AST4390

Models:

Wrangler (88-95)
Cherokee (84-95)

Also for RENAULT diesels

Engines:

2.1D Turbo
J8S



Diesel 2.5CRD / 2.8CRD (Belt)

AST4945A

Models:

Voyager (01-08)
Grand Voyager (01-08)
Jeep Cherokee (01-08)

Also for
LDV Maxus (2.5CRD)

Engines:

2.5CRD
R2516C
R2516K

2.8CRD

R2816C5
R2816K4

Includes 2.5 CRD
Balancer Shaft
Locking Pins



Petrol 0.9 TwinAir (Chain)

AST5110

Models:

Ypsilon

Engines:

312A2000

Also for ALFA ROMEO, FIAT and LANCIA models.





Timing Tools

Diesel 1.4 / 1.6 / 2.0 / 2.2 HDi: DV4/DV6/DW10/DW12 (Belt) AST4820

Models:

Citroën

C1 (05-09)
C2 (03-09)
C3/Pluriel (02-09)
C4 (04-09)
C4 Picasso (06-09)
C5/IV/III (04-09)
C6 (06-09)
C8 (02-07)
Xantia (98-01)
Xsara (99-06)
Xsara Picasso (99-09)
Evasion/Synergie (99-02)
Berlingo (99-09)
Dispatch/Jumpy (99-09)
Relay/Jumper I/II (01-06)

Peugeot

107 (05-09)
1007 (05-09)
206/CC (99-09)
207 (06-09)
306 (99-02)
307/CC (01-09)
308 (07-09)
406 (98-04)
406 Coupe (00-06)
407 (04-09)
607 (00-09)
806 (99-02)
807 (02-07)
Partner 2.0HDi (99-08)
Expert VII (99-07)
Boxer I/II (02-06)

Engines:

1.4HDi

DV4TD(8HT/8HW/8HX/8HZ)
DV4TED4(8HV/8HY)

1.6HDi

DV6TED4(9HY/9HZ)
DV6ATED4
(9HW/9HX not Partner)

2.0HDi

DW10TD(RHY)
DW10UTD(RHV)
DW10UTED4(RHX)
DW10ATED/L3(RHS/RHZ)
DW10ATED4(RHM/RHW)
DW10ATED4/L4(RHT)
DW10BTED4(RHR)
DW10BTED/L3(RHX)
DW10BTED4(RHJ/RHL)

2.2HDi

DW12ATED/DW12TED4
(4HX/4HZ)
DW12TED4/L4(4HW)
DW12UTED(4HY)
DW12BTED(4HP/4HR/4HS/4HT)



For TUD/XUD diesels – see Kit AST4388A
For DW8 diesels – see Kit AST4822

Also for FIAT, LANCIA models

Includes tools for
**Adjustable Crank
Gear timing.**



With this kit you will also need . . .

AST6055 Exhaust Pipe Clamp Pliers
on C1/107 1.4HDi & 308 1.6HDi models.



AST6055

Diesel 1.4 / 1.6 HDi: DV4/DV6 (Belt) AST4735A

Models:

Citroën

C1 (05-09)
C2 (03-09)
C3/Pluriel (02-09)
C4 (04-09)
C4 Picasso (06-09)
C5/II/III (04-09)
Xsara (02-04)
Xsara Picasso (04-09)
Berlingo (05-09)

Peugeot

107 (05-09)
1007 (05-09)
206/CC (01-09)
207 (06-09)
307/CC (01-08)
308 (07-09)
407 (04-09)

Engines:

1.4HDi

DV4TD
(8HT/8HW/8HX/8HZ)
DV4TED4
(8HV/8HY)

1.6HDi

DV6TED4 (9HY/9HZ)
DV6ATED4 (9HW/9HX)



Also for FORD (1.4 / 1.6TDCi) / VOLVO models



With this kit you will also need . . .

AST6055 Exhaust Pipe Clamp Pliers on C1/107 1.4HDi & 308 1.6HDi models.



AST6055



Diesel 1.5D to 2.5D: TUD / XUD (Belt)

AST4388A

Models:

Citroën

Saxo (96-03)
ZX (91-98)
Xsara (97-00)
Xantia (93-01)
XM (90-01)
Evasion/Synergie (95-00)
C15 (93-02)
Berlingo (96-99)
Dispatch/Jumpy (95-01)
Relay/Jumper (94-02)

Peugeot

106 (94-03)
306 (93-00)
406 (95-00)
605 (93-00)
806 (95-00)
Partner I/II (96-00)
Expert (95-00)
Boxer (94-02)

Engines:

TUD5

(VJX/VJY/VJZ)

XUD7

(A9A)

XUD9

(D8A/D8B/D8C/D9B/
DHV/DHW/DHX/DHY/
DJY/DJZ)

XUD11

(P8A/P8B/P8C/PHZ/PJZ)

DJ5

(T9A/THX/THY/THZ)



Timing Tools

Also for FIAT, LDV, NISSAN, ROVER models

For HDi diesels - see Kit AST4820

NOTE: AST4388A Kit also covers TU/XU petrol engines



With this kit you will also need . . .

AST3398

Flywheel Holding Tool

(Crank Pulley removal)

1.8D and 1.9D



AST3398

AST4358

Flywheel Holding Tool

(Crank Pulley removal)

- 1.9D Turbo and 2.1D Turbo



AST4358

AST4359

Flywheel Holding Tool

(Crank Pulley removal)

- 1.5D



AST4359

Diesel 1.9D: DW8 (Belt)

AST4822

Models:

Citroën

Xsara (98-04)
C15 (01-06)
Dispatch/Jumpy (99-07)
Berlingo (98-07)

Peugeot

206 (98-04)
306 (98-02)
Partner I/II (98-07)
Expert (99-07)

Engines:

DW8

DW8/L3
DW8/L/W3
DW8B
DW8B/L4
DW8B/L/W3
(WJY/WJZ)

Also for LDV Pilot



For HDi diesels - see Kit AST4820



Diesel 2.0 / 2.2 / 2.4 (Chain) Setting/Locking & Engine Pump R & I

AST5130

Models:
Citroen
Relay/Jumper III

Engines:
P220TE

Peugeot
Boxer III

Also for FIAT, JAGUAR, LAND ROVER and LDV models.



AST5130 covers engine timing and pump removal/installation (retention of pump sprocket position with pump removed)



With this kit you will also need ...

AST4833

Auxillary Belt Tensioner Wrench

Specialised wrench, essential to overcome restricted access to the auxillary belt tensioner - auxillary belt removal and installation



AST4833

KIT OPTION:

AST5135 Updates AST4370 to include H.P. pump removal on 2.4L engines in Transit (2006 onwards) with Denso common rail fuel systems



AST5135



Diesel 2.8 D/TDI/HDi (Belt)

AST4865

Models:

Citroën

Relay/Jumper (01-06)

Peugeot

Boxer I/II (00-06)

Engines:

8140.63

8140.43

8140.43S



**Also for FIAT, IVECO
and RENAULT models**

Diesel 3.0HDi (Chain)

AST4925

Models:

Citroën

Relay/Jumper III (06-09)

Peugeot

Boxer III (06-09)

Engines:

F1C (F30DT)



**Also for FIAT,
IVECO models**

Diesel 2.7 TDV6 (Belt)

AST4965

Models:

Citroën

C5 III (07-09)

C6 (06-09)

Peugeot

407/Coupe (04-09)

607 (04-09)

Also for JAGUAR

and LAND ROVER models

Engines:

DT17TED4 (JHZ)

DT17BTD4 (JHZ)

**Covers Automatic
& Manual Transmission
models**





Petrol 1.4 / 1.6 16v. EP3 / EP6 / EP6DT / EP6DTS (Chain)

AST5020

Models:

Citroën

C4 (08-09)
C4 Picasso (08-09)

Peugeot

207 (06-09)
207CC (07-09)
308 (07-09)

Engines:

1.4VTi (Valvetronic)

EP3(8FS)

1.6VTi (Valvetronic)

EP6(5FW)

1.6THP (Direct Injection)

EP6DT(5FX)

EP6DTS(5FY)

**Also for
MINI models**



AST5025 / AST5030

Two smaller kits are available to cover each of the engine types

AST5025 for EP3 / EP6 Valvetronic engines.

AST5030 for EP6DT/DTS Direct Injection engines

All these kits utilise the same case + insert as **AST5020** Kit and can be upgraded to cover the additional engines, at a later date, as required.



With this kit you will also need . . .

To carry out removal & installation of the Timing Chain Assembly and related service work you will also need **AST5045** Timing Chain Service Tool Set.



AST5045

Petrol 1.4 16v. ET+ KfV-KfW (Belt)

AST4935

Models:

Citroën

C2 (03-09)
C3/Pluriel (04-09)
C4 (04-09)
Saxo (00-03)
Xsara (00-04)
Berlingo (01-09)

Peugeot

106 (00-03) 306 (00-02)
1007 (05-09) 307 (01-08)
206/CC (00-09) Partner (00-09)
207 (06-09)

Engines:

ET3,J4(KFU)
TU3A/JP
(KfV/KfW)





Timing Tools

Petrol 1.8 / 2.0 / 2.2 16v. EW7 / EW10 / EW12 (Belt)

AST4825

Models:

Citroën

Xsara (00-05)
Xsara Picasso (99-07)
C4 (04-09)
C4 Picasso (06-09)
C5 II/III (00-09)
C8 (02-09)
Evasion/Synergie (00-02)
Dispatch/Jumpy (00-09)

Peugeot

206/CC (98-07)
307/CC (01-09)
406/Coupe (99-06)
407/Coupe (04-09)
607 (00-09)
806 (00-02)
807 (02-09)
Expert I/II/III (00-09)

Engines:

1.8 16v.
EW7J4(6FZ)
EW7A(6FY)
2.0 16v.
EW10A(RFJ)
EW10J4S(RFK)
EW10J4
EW10J4/L5
EW10J4R/L5
EW10J4/L4/5(RFN/RFR)

2.0 HPI
EW10D(RLZ)
2.2 16v.
EW12J4/L5(3FZ)
EW12J4(3FY)



With this kit you will also need . . .

AST4576 Crank Pulley Flange Repositioning Tool - engines with non-adjustable camshaft sprockets



For ET codes - see Set AST4935
For TU/XU codes - see Kit AST4388A

AST4576

Petrol 3.0 24v. V6 (Belt)

AST4580

Models:

Citroën

Xantia (97-01)
XM (97-00)
C5 (00-08)
C6 (05-09)

Peugeot

406/Coupe (97-06)
605 (97-00)

Engines:

ES9J4S(XFX)-406
ES9J4/L3(XFZ)-XANTIA/XM/406/605
ES9A(XFV)-C5/C6



Also for RENAULT Laguna, Safrane & Espace models

Petrol 1.0 to 2.0 TU / XU (Belt)

AST4388A

Models:

Citroën

C2 (03-09)
C3/Pluriel (02-09)
C4 (04-08)
AX (91-97)
Saxo (96-03)
ZX (91-96)
Xsara (97-06)
Xsara Picasso (99-06)
Xantia (93-01)
XM (93-00)
Evasion/Synergie (94-01)
C15 (92-98)
Berlingo (97-09)
Relay/Jumper (94-06)

Peugeot

106 (93-03)
1007 (05-09)
205 (89-96)
206/CC (98-09)
207 (06-08)
306 (93-03)
307/CC (01-09)
405 (92-97)
406 (95-02)
406 Coupe (97-02)
605 (93-00)
806 (94-01)
Partner VII (96-07)
Boxer VII (94-06)

Engines:

1.0 TU9(CDY/CDZ),
1.1 TU1(HDY/HDZ/HFX/HFY/HFZ)
1.4 TU3(KDX/KDY/KDZ/KFX/KFZ)
1.6 TU5(BDY/BFZ/NFT/NFY/NFW/NFZ)
1.6 16v. TU5JP4(NFU/NFX/NFS)
1.8 XU7(LFW/LFX/LFZ)
1.8 16v. XU7JP4(LFY)
2.0 XU10(RFL/RFU/RFW/RFX)
2.0 Turbo XU10(RGX/RGY)
2.0 16v. XU10JP4 (RFS/RFT/RV/RFY)



With this kit you will also need . . .

AST3398

Flywheel Holding Tool
(Crank Pulley Removal)
XU 1.6 to 2.0



AST3398

AST4358

Flywheel Holding Tool
(Crank Pulley Removal)
XU 1.8/2.0 16v.



AST4358

NOTE: Kit AST4388A also covers TUD / XUD diesel engines

For EW codes - see Kit AST4825.

For ET(KFU) + KFV/KFW codes - see Set AST4935



Timing Tools

Diesel BMW – Pump Removers / Sprocket Retainers

**AST4414, AST4553,
AST4554, AST5014**

Many BMW diesel engines are designed to allow for retention of the pump sprocket position, in-situ, when removing/replacing the pump. This minimises the level of engine dis-assembly required as the pump sprocket/timing chain remain undisturbed.

AST4414
M41/M51
BMW diesels

3 Series **E36**, 5 Series **E34** and 7 Series **E38**
(NOTE: AST4414 is also included in AST4411 Kit)



AST4553
M47/M57
BMW diesels

**E38, E39, E46, E53, E60,
E63, E65, E70, E83, E90.**



AST4554
M47
BMW diesels

**Rover 75,
LR Freelander,
Vauxhall/Opel Omega B**



AST5014
N47/N47S
BMW diesels

E60, E81, E83, E87, E90



Diesel BOSCH VE - Rotary Injection Pumps (Timing)

AST4398G

Injection Pumps:
Bosch VE (Rotary)
Diesel Kiki VE
Nippondenso VE

Static Timing of **Bosch VE 'distributor type'** fuel injection pumps found in cars and vans. Covers M8, M10 and M12 service port connections.

AST4398G (Kit includes DTI)

AST4398 (Kit less DTI)



DIESEL INJECTION PUMP TIMING & REMOVAL TOOLS



Diesel VAUXHALL/OPEL - Fuel System Priming

AST4491

Models:

Astra-G/ Astravan (98-06)	Omega (98-03) Sintra (98-99)
Zafira (99-05)	Frontera (98-04)
Vectra (97-05)	Signum (03-05)

Engines:

2.0 & 2.2 DTi diesels

2.0D	2.2D
X20DTH	X22DTH
X20DTL	Y22DTH
Y20DTH	Y22DTR
Y20DTL	

Essential for priming fuel system after service work to enable engine to re-start.



DODGE TIMING TOOLS



Diesel 2.0CRD (Belt)

AST4840

Models:

Caliber (06-09)

Engines:

ECD



With this kit you will also need ...

AST4844 Sprocket Holding Tool with Inter-changeable Pins

AST4844



FIAT TIMING TOOLS



Petrol 0.9 TwinAir (Chain)

AST5110

Models:

Panda
Punto
500/500C

Engines:

312A2000
312A4000

Also for ALFA ROMEO, LANCIA and CHRYSLER models.





Timing Tools

Petrol 1.2 / 1.4 8v. (Belt)

AST4950

Models:

- New 500 (07-09)
- Idea (04-09)
- Linea (07-09)
- Grande Punto (07-09)
- Doblo / Cargo (05-09)
- Panda EV02 (05-09)

Also for FORD models



Engines:

- 1.2**
169A4.000
199A4.000
- 1.2**
188A4.000-**EV02 Only**
- 1.4**
350A1.000



Petrol 1.2 / 1.4 16v. Twin Cams / T-JET (Belt)

UPDATED

AST4510A

Models:

- New 500 (07-09)
- Panda (07-08)
- Punto (97-08)
- Grande Punto (07-09)
- Idea (04-09)
- Linea (07-08)
- Pallo Weekend (01-06)
- New Bravo (07-09)
- Brava/Bravo (98-02)
- Marea/Weekend (98-00)
- Stilo (01-08)

Also for LANCIA models

Engines:

- 1.2 16v.**
176B9.000
182B2.000
188A5.000
- 1.4 16v.**
843A1.000
169A3.000
192B2.000
198A1.000
198A4.000
199A6.000



New VVT & Crank Tool for 1.4 16v engines

Petrol 1.4 MultiAir (Belt)

AST5050

Models:

- Bravo
- Punto Evo
- Punto

Engines:

- 198A7000
- 955A2000
- 955A6000

Also for ALFA ROMEO and LANCIA models.



With this kit you will also need . . .
AST4844 Camshaft Sprocket Holding Tool



AST4844



Petrol 1.6 16v. Twin Cams (Belt)

AST4520A

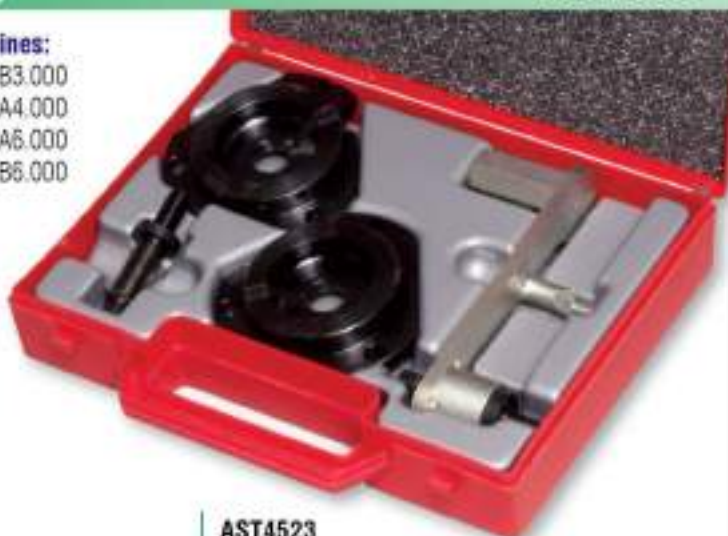
Models:

Palio Weekend (97-06)	Stilo (01-08)
Sienna (97-03)	Multipla (99-09)
Brava/Bravo (95-02)	Doblo/Cargo (02-06)
Marea/Weekend (96-03)	

Engines:

178B3.000
182A4.000
182A6.000
182B6.000

Also for LANCIA Delta, Lybra



With this kit you will also need ...



AST4519
TDC Positioning Tool (Requires suitable DTI such as AST3054-10)

AST4519

AST3398
Flywheel Holding Tool (Crank Pulley removal) - Palio Weekend (-00), Stilo.

AST3398



AST4523
Flywheel Holding Tool (Crank Pulley removal) Brava/Bravo, Marea/Weekend, Multipla, Doblo/Cargo, Palio Weekend (00-).

AST4523



Petrol 1.8 16v. Twin Cams (Belt)

AST4995

Models:

Croma (05-09)

Engines:

1.8 16v
939A4.000



With this kit you will also need ...

AST4742 Module Removal Set
To Remove Ignition Module for timing adjustment applications.

AST4742



Camshaft Sprocket Holding Tool

AST4844

Timing belt replacement on Fiat Petrol engines requires the camshaft sprockets to be 'free to turn' on camshafts. AST4844 is used to counter-hold the sprocket(s) whilst releasing and tightening the sprocket bolt.

DO NOT use timing tools for counter-holding camshafts whilst releasing / tightening sprocket bolt.



AST4844
4 x sizes Inter-changeable Location Pins





Petrol FIAT 1.8 16v. 2.0/2.4 20v. Twin Cams (Belt) AST4915 AST4920

Two Engine Timing Belt Replacement Tool Kits covering FIAT Twin Cams. Both kits utilise the **AL-Fi Universal Camshaft Setting System** and includes tools for Crankshaft/Flywheel locking and belt tensioning.

AST4915 Kit – 1.8 16v engines

Models: Punto, Brava/Bravo, Marea/Marea Weekend, Barchetta, Coupe, Stilo.

Engines: 182A2.000, 183A1.000, 183A6.000, 188A6.000 and 192A4.000

AST4920 Kit – 1.8 16v. + 2.0 / 2.4 20v. engines

Models: Punto, Brava/Bravo, Marea/Marea Weekend, Barchetta, Coupe, Stilo.

Engines: 175A3.000, 182A1.000, 182A2.000, 182B3.000, 182B7.000, 183A1.000, 183A6.000, 188A6.000, 192A2.000 and 192A4.000



PATENT APPLIED



+ With engines 175A3, 182A1, 182A2, 182B3, 182B7, 183A1, 192A2 you will also need ...

AST4519

TDC Positioning Tool
(Requires suitable DTI such as AST3054-10)





Petrol FIAT – ALFA Twin Cams - Combination Kit (Belt)

AST4970



Wide application coverage based on AL-Fi Universal Camshaft Setting Plate System

The complete Engine Timing and Belt Replacement Tool Kit for the full range of ALFA ROMEO Twin Spark/JTS 16v. (Belt) and FIAT 1.8 16v. + 2.0/2.4 20v. (Belt) petrol engines.

Utilises the **AL-Fi Universal System** for Camshaft Setting and includes all the Crankshaft and Belt Tensioner Tools required for timing applications on this large range of engines.



FIAT

Models:

Punto, Brava/Bravo, Marea/Marea Weekend, Barchetta, Coupe, Stilo. 1.8 16v., 2.0 and 2.4 20v. engines

Engines:

175A3.000, 182A1.000, 182A2.000, 182B3.000, 182B7.000, 183A1.000, 183A6.000, 188A6.000, 192A2.000 and 192A4.000



ALFA ROMEO

Models:

145, 146, 147, 155, 156, 166, Spider/GTV, GT 1.4, 1.6, 1.8 & 2.0 Twin Spark + 2.0JTS engines

Engines:

162.01, 321.02, 321.03, 321.04, 322.01, 322.05(156), 323.01, 323.10, 335.03, 341.03, 363.01, 372.03, 671.06, 672.04, 676.01, 932A2.000 and 937A1.000



PATENT APPLIED



With this kit you will also need . . .

a suitable DTI such as **AST3054-10** for use with the TDC Positioning Tool

AST3054-10

Petrol 2.2 16v. Twin Cams (Chain)

AST4766

Models:

Croma (05-09)

Engines:

194A1.000



With this kit you will also need . . .

AST4768 Crankshaft Pulley Holding Tool

AST4768





Timing Tools

Diesel 1.3 JTD / MultiJet Overhaul Timing Kit (Chain)

AST5080

Models:

500/500C
Doblo
Doblo Cargo / Work Up
Florino
Grande Punto
Idea
Linea
Panda / Panda Classic
Punto / Punto Evo
Punto Classic
Qubo
Strada Pick-up

Engines:

169A1000
169A5000
188A8000
188A9000
199A2000
199A3000
199A9000
199B1000
199B2000
199B4000
223A9000
263A2000

AST5080 – For locking, setting and adjustment of engine timing during engine/cylinder head overhaul procedures. Includes all the tools from AST5085 and AST5086 sets.

Also for ALFA ROMEO, FORD, LANCIA, SUZUKI AND OPEL/ VAUXHALL models.



+ With this kit you will also need ...

AST5085 Smaller set for straight forward checking of camshaft and crankshaft timing



AST5085

AST5086 For counter holding the crankshaft and camshafts during engine timing setting and adjustment procedures. Used in conjunction with AST5085



AST5086

AST4884 Crankshaft Timing Position Tool (for applications where gearbox is removed)



AST4884

Diesel 1.6JTD Multijet (Belt)

AST4735A

Models:

Scudo (07-09)

Engines:

DV6UTED4(9HU)



Diesel 1.6JTD / 1.9JTD / 2.0JTD / 2.4JTD Multijet (Belt)

AST4850

Models:

Punto (99-06)
Grande Punto (05-09)
Idea (04-08)
Brava/Bravo (98-02)
Linea (07-09)
New Bravo (07-09)
Marea/Weekend (99-03)
Stilo (01-06)
Croma (05-09)
Multipla (99-07)
Doblo/Cargo (02-09)
Palio Weekend (02-06)
Sedici (06-09)
Strada Pick-Up (03-06)

Engines:

1.6JTD 16v.	1.9JTD 8v.	2.4JTD 10v.
198A2.000	192A9.000	185A6.000
198A3.000	192B4.000	
198A6.000	192B5.000	2.4JTD 20v.
350A2.000	199A5.000	939A3.000
	939A1.000	
1.9JTD 8v.	939A5.000	
182B4.000	939A7.000	
182B9.000	223A7.000	
186A6.000		
186A8.000	1.9JTD 16v.	
186A9.000	192A5.000	
188A2.000	937A5.000	
188A7.000	939A2.000	
188B2.000	939A8.000	
192A1.000		
192A3.000	2.0JTD 16v.	
192A8.000	198A5.000	

For 1.9D/TD and PSA 1.9/2.1 engines in Fiat models see Kit AST4545





Diesel 2.2D (Chain) Setting/Locking & Engine Pump R & I

AST5130

Models:
Ducato

Engines:
4HV

Also for CITROEN/PEUGEOT, FORD,
JAGUAR, LAND ROVER and LDV models.



Timing Tools

AST5130 covers engine timing and pump removal/installation
(retention of pump sprocket position with pump removed)

 With this kit you will also need . . .

AST4833

Auxillary Belt Tensioner Wrench

Specialised wrench, essential to overcome
restricted access to the auxillary belt tensioner -
auxillary belt removal and installation



AST4833

KIT OPTION:

AST5135 Updates AST4370 to include H.P. pump removal
on 2.4L engines in Transit (2006 onwards) with Denso
common rail fuel systems



AST5135



Diesel 2.0JTD / 2.2JTD (Belt)

AST4820

Models:

Ulysse (99-07)
Scudo (99-07)
Ducato (01-06)

Engines:

DW10ATED
(RHV/RHT/RHW/RHX/RHZ)
DW12TED4
(4HW)

Also for CITROËN / PEUGEOT models (HDi)



Citroën/Peugeot
engines in
Fiat Models

Diesel 2.3JTD (Belt) / 3.0JTD (Chain)

AST4925

Models:

Ducato (02-09)

Engines:

2.3JTD (Belt) **3.0JTD (Chain)**
F1AE0481C F1CE0481D



Also for IVECO Daily

Diesel 2.5D / 2.5DT / 2.8D / 2.8JTD (Belt)

AST4865

Models:

Croma (93-97)
Ducato (87-06)
Talento (87-02)

Engines:

2.5D	2.5DT	2.8D/Turbo	2.8JTD
8144.67	8140.27	8140.43	8140.43S
	8140.47R	8140.63	
	8144.21		
	8144.97Y		



Also for CITROËN, PEUGEOT, IVECO, RENAULT models



Petrol 1.0 SCTi EcoBoost 3 Cylinder (Belt)

AST5150

Models:

B-Max
C-Max
EcoSport
Fiesta
Focus

Grand C-Max
Tourneo Connect
Tourneo Courier
Transit Connect
Transit Courier

Engines:

M1DA
M1JA
M1JC
M1JE
M2DA
M2GA
PFJA
P4JB
SFCA
SFCB
SFJA
SFJB
XMJA
XMJB



Timing Tools

Petrol 1.2 8v. DURATEC (Belt)

AST4950

Models:

KA

Engines:

AAAA

Also for
FIAT models





Petrol 1.25 to 2.3 16v. DURATEC (Belt/Chain)

AST4404C

Models:

B-Max
C-Max
Cougar
Fiesta
Focus
Focus C-Max
Fusion
Galaxy
Mondeo
Puma
S-Max
Tourneo Connect
Transit
Transit Connect

Engines:

1.25 16v. (Belt)

DHA, DHB, DHC,
DHD, DHE, DHF,
DHG, F8JA, F8JB,
FUJA, FUJB, M7JA,
M7JB, SNJA, SNJB,
STJA, STJB

1.4 16v. (Belt)

ASDA, ASDB, FHA,
FHD, FHE, FHF,
FXDA/C, FXDB/D,
FXJA, FXJB, FXJC,
SPJA, SPJC, SPJD

1.4 LPG

FXJA, FXJB, RTJA,
RTJB, UTJA

1.6 16v. (Belt)

FYDA/C, FYDB/D,
FYDH, FYJA, FYJB,
FYJC, HWDA,
HWDB, L1F, L1J,
L1L, L1N, L1Q, L1T,
L1V, L1W, SHDA,
SHDB, SHDC

1.7 16v. (Belt)

MHA, MHB

1.8 16v. (Belt)

EYDB, EYDC, EYDD,
EYDE, EYDF, EYDG,
EYDI, EYDJ, EYPA,
EYPC, RKA, RKB,
RKF, RKH, RKJ, RKK

1.8 Bi-Fuel/LPG (Belt)

EYDL, EYPC

1.8 16v. (Chain)

CDBB, CGBA/B, CHBA/B,
CSDA, CSDB, Q7DA,
Q9DA, Q9DB, Q9DC,
Q9DD

1.8 16V FlexFuel (Chain)

Q7DA, Q9DA

2.0 16v. (Belt)

EDBA/C, EDBB, EDBD,
EDDB, EDDC, EDDO,
EDDF, NGA, NGB, NGC,
NGD



2.0 RS/ST170 (Belt)

ALDA, HMDA

2.0 ST150 (Chain)

N4JB

2.0 16v. (Chain)

AOBA, AODA, AODB,
AODE, AOWA, CJBA/B,
N4JB, SYDA

2.0 Bi-Fuel CNG/LPG

SYDA

2.0 FFV/Pfi (Chain)

AOBC, AOWB, TBBA,
TB8B, TBWA, TBWB

2.3 16v. (Chain)

GZFA, GZFB, SEBA, SEWA

2.3 CNG/LPG

GZFC

Also for
**MAZDA &
VOLVO** models



With this set you will also need . . .

AST4629 Crankshaft Pulley Remover/Installer Set

Engines:

1.25 / 1.4 / 1.6 / 1.7 (Belt)

DHA, DHB, DHC, DHD, DHE, DHF, DHG, FHA,
FHD, FHE, FHF, MHA, MHB, L1T, L1V, L1W



AST4629

AST4394 Camshaft Sprocket Holding Tool

Engines:

1.25 / 1.4 / 1.6 (Belt)

ASDA, ASDB, DHA, DHB, DHC, DHD, DHE, DHF, DHG,
F8JA, F8JB, FHA, FHD, FHE, FHF, FUJA, FUJB,
FXDA/C, FXDB/D, FXJA, FXJB, FXJC, FYDA/C,
FYDB/D, FYJA, FYJB, FYJC, HWDA, HWDB,
L1F, L1J, L1L, L1N, L1Q, L1T, L1V, L1W,
M7JA, M7JB, RTJA, RTJB, SHDA,
SHDB, SHDC, SNJA, SNJB, SPJA,
SPJC, STJA, STJB, SPJD, UTJA



AST4394

AST4834 Flywheel Holding Tool Set

Engines:

1.25 / 1.4 (Belt)

RTJA, RTJB, SNJA, SNJB, SPJA, SPJC, SPJD, STJA, STJB

New procedures require use of
Flywheel Holding Tool during
belt replacement



AST4834

AST4736 Crankshaft Pulley Holding Tool

Engines:

1.8 / 2.0 / 2.3 (Chain)

AOBA, AODA, AODB, AODE, AOWA, CDBB, CGBA/B,
CHBA/B, CJBA/B, CSDA, CSDB, GZFA, GZFB,
GZFC, N4JB, Q7DA, Q9DA, Q9DB, Q9DC,
Q9DD, SEBA, SEWA, SYDA, TBBA,
TBWA, TBWB



AST4736



Petrol 1.5 / 1.6 TI-VCT / FFV 16v. DURATEC (Belt)

AST4930

Models:

B-Max
C-Max
EcoSport
Fiesta
Focus
Grand C-Max
Mondeo

Engines:

1.5
UEJB

1.6
HXDA, HXDB,
HXJA, HXJB,
IQDA, IQDB,
IQJA, MUDA,
KGBA, PNBA,
PNDA, RVJA,
RHBA, SIDA,
U5JA, XTDA



Also covers variable
camshaft timing
adjustment

Timing Tools

Petrol 2.5 RS/ST Twin Cam (Belt) Engine Setting & Locking Kit

AST5087

Models:

Focus
Galaxy
Kuga
Mondeo
S-Max

Engines:

HUBA
HUWA
HYDA
HYDB
HYDC
JZDA

**Also for
VOLVO models**



Included within the kit are the tools used for setting/timing during engine re-assembly after overhaul procedures



Diesel 1.3 TDCi Duratorq (Chain) Engine Overhaul Timing Kit

AST5080

Models:

KA

Engines:

BAAA, BAAB

AST5080: For locking, setting and adjustment of engine timing during engine/cylinder head overhaul procedures. Includes all the tools from AST5085 and AST5086 sets.

Also for

FIAT, LANCIA, ALFA ROMEO, SUZUKI and VAUXHALL/OPEL models



+ With this kit you will also need . . .

KIT OPTION:

AST5085 Smaller set for straight forward checking of camshaft and crankshaft timing



AST5085

AST5086 For counter holding the crankshaft and camshafts during engine timing setting and adjustment procedures. Used in conjunction with AST5085



AST5086

AST4884 Crankshaft Timing Position Tool (for applications where gearbox is removed)



AST4884

Diesel 1.4/1.5/1.6 TDCi/Econetic DURATORQ (Belt)

AST4735A

Models:

B-MAX
C-MAX
EcoSport
Fiesta
Focus
Fusion
Mondo
TourneoCourier
Transit Courier

Engines:

1.4 TDCi
F6JA, F6JB
F6JC, F6JD

1.5 TDCi
ENUG

1.6 TDCi

G8DA, G8DB, G8DC
G8DD, G8DE, G8DF
GPOA, GPDB, GPDC
HHDA, HHDB, HHJA
HHJB, HHJC, HHJD
HHJE, HHJF, MTDA
TZJB, UBJA



Also for
CITROËN/PEUGEOT, VOLVO
and **MAZDA** models

+ With this kit you will also need . . .

AST4833 Specialised Wrench, essential to overcome restricted access to the auxiliary belt tensioner - auxiliary belt removal and installation

Engines: G8DA, G8DB, G8DC, G8DD, G8DE, G8DF, GPDA, GPDB, GPDC, HHDA, HHDB



AST4833

Diesel 1.4/1.5/1.6 TDCi, 1.8DT/TDdi/TDCi, 2.0/2.2 TDCi DURATORQ (Belt) **AST4830**

Models:

B-MAX
C-MAX
Courier
Escort
Fiesta
Focus
Fusion
Galaxy
Grand C-MAX
Kuga
Mondo
S-MAX
Tourneo Connect
Transit Connect
Transit Courier

Engines:

1.4 TDCi

F6JA, F6JB,
F6JC, F6JD

1.5 TDCi

UGCA, UGJC

1.6 TDCi

G8DA, G8DB,
G8DC, G8DD,
G8DE, G8DF,
GPDA, GPDB,
GPDC, HHDA,
HHDB, HHJA,
HHJB, HHJC,
HHJD, HHJE,
HHJF, MTDA,
NGDA, T1BA/B/C,
T1DA, T1DB,
T1GA, T1WB,
T3DA, T3DB,
TZGA, TZGB,
TZJA, UBGA,
UBJA

1.8 D Turbo

RTN, RTP,
RTQ, C9DC

1.8 TDdi

BHDA/B,
BHPA, C9DA/B,
C9DC

1.8 TDCi

BHPA, F9DA/B,
FFBA, FFDA,
FFWA, HCPA,
HCPB, KHBA,
KKDA, KKDB,
P7PA, P9PA,
P9PB, QYBA,
QYWA, R2PA,
R3PA, RWPA,
RWPC

2.0 TDCi

AZBA, AZWC,
AZWA, G6DA,
G6DB, G6DC,
G6DD, G6DE,
G6DF, G6DG,
IXDA, KLBA,
KLWA, LPBA,

QXBA, QXBB,
QXWA, QXWB,
TXBA, TXDA,
TXDB, TXWA,
TYBA, TYDA,
TYWA, UFBA,
UFDA, UFDB,
UFWA, UKBA,
UKDA, UKDB,
UKMA,
UKWA

2.2 TDCi

KNBA, KNBB,
KNWA, Q4BA,
Q4BA



With this kit you will also need . . .

AST4833 Auxiliary Belt Tensioner Tool

Engines:

G8DA, G8DB
G8DC, G8DD
G8DE, G8DF
GPDA, GPDB
GPDC, HHDA
HHDB



AST4833

AST4394 Camshaft Sprocket Holding Tool

Engines:

1.8TDCi / Econetic



AST4394

Diesel 1.9TDi – Galaxy (Belt) **AST4333**

Models:

Galaxy (95-00)

Engines:

1Z AHU
AFN AVG

For later 1.9TDi (Pumpe Düse)
engines in Galaxy – see AST4840 Kit





Diesel 1.9TDi (Pumpe Düse) - Galaxy (Belt)

AST4840

Models:
Galaxy (99-06)

Engines:
ANU
ASZ
AUY

Also for
VAG models

COVERS Pumpe Düse
engine variants with
Hydraulic and Mechanical
belt tensioners



Timing Tools

Diesel 2.0/2.2/2.4 TDDi/TDCi Duratorq (Chain) Engine Timing and Pump R & I

AST5130

Models:

Focus
Mondeo
Ranger
Transit

Engines:

2.0Ddi
ABFA, D3FA,
F3FA

2.0TDCi
FMBA, FMBB
FIFA, HJBA
HJBB, HJBC
HJBE, N7BA
N7BB, SDBA

2.0TDDi
D5BA, D6BA

2.2TDCi

QJBA, QJBB
QJBC, QJBD
P8FA, P8FB
QVFA

2.4Ddi

D2FA, D2FB
D4FA, D0FA
F4FA, FXFA

2.4TDCi

H9FA, H9FB
JXFA, PHFA
HEFA, HFFA

3.2TDCi

SAFA
(Engine timing only)



Also for
CITROËN/PEUGEOT, FIAT,
JAGUAR, LAND ROVER and LDV models

+ With this kit you will also need . . .

AST4833

Auxillary Belt Tensioner Wrench

Specialised wrench, essential to overcome
restricted access to the auxillary belt tensioner -
auxillary belt removal and installation



AST4833

AST5130 covers engine timing and pump removal/installation

KIT OPTION:

AST5135 Updates AST4370 to include H.P. pump removal
on 2.4L engines in Transit (2006 onwards) with Denso
common rail fuel systems



AST5135

Flywheel Holding Tool Set

Covers broad range of FORD applications - on both Petrol and Diesel engines.
Used to 'lock' flywheel (at starter motor position) for

- maintaining crankshaft in timing position or
- counter-holding crankshaft when removing/installing crankshaft pulley during belt replacement

Applications include:

- 1.25/1.4 16v Petrol engines (2009 Fiesta)
- 1.5 Ti-VCT Petrol engines
- 1.6 SCTi/Ti-VCT/Ti-VCT FFV Petrol engines
- 1.6 TDCi/Econetic Diesel engines
- 1.8 TDCi/TDi/TDdi Diesel engines
- 2.0 TDCi/Econetic Diesel engines





Petrol 1.6 to 3.0 s.o.h.c / Twin Cams (Belt)

AST4656

Models:

Civic (91-95)
Accord (93-03)
Prelude (92-01)
Shuttle/Odyssey (95-01)

Engines:

1.6 B16A2 **1.8** F18A3, F18B2, F18B4
2.0 F20A4, F20B3, F20B5, F20B6, F20B7, F20Z1, F20Z2
2.2 F22Z2, F22B5, F22B8, H22A2, H22A5, H22A7, H22A8
2.3 F23A7, F23Z5, H23A2, H23A3
3.0 J30A1



With this set you will also need . . .

AST4936 Crankshaft Pulley Holding Tool Set (Belt/Chain)

For Crankshaft Pulleys with Internal Hexagon – Pulley removal required for belt replacement applications. Adaptors are used in conjunction with common Handle Assembly AST4939.

Models:

Jazz 1.2 / 1.4	Legend 3.5	Stream 1.7
Civic 1.4 / 1.6 / 1.7	S2000 2.0	Shuttle/Odyssey 2.2 / 2.3
Accord 1.8 / 2.0 / 2.3 / 2.4 / 3.0 / 2.2CDTi	FR-V 1.7 FR-V 2.2CDTi	CR-V 2.2CDTi



AST4936 Crankshaft Holding Tool Set (Belt/Chain)

Diesel 2.0TDi (Belt)

AST4406A

Models:

Civic (95-01)
Civic Aerodeck (97-01)
Accord (96-03)

Engines:

20T2N
20T2R

Also for
ROVER models



With this kit you will also need . . .

AST4844 Sprocket Holding Tool with Inter-changeable Location Pins

AST4844

HONDA / ACURA U.S. – see U.S. Vehicle Timing Tools PAGE 65-66



Petrol 1.6 / 1.8 / 2.0 / 2.4 Twin Cams (Belt)

AST4657

Models:

Lantra (91-96)
Sonata (93-01)
Trajet (00-05)
Santa-Fe (01-06)

Engines:

G4-N	G4CP	4JP
G4-P	G4-R	G4JS



Also for
MITSUBUSHI models

Timing Tools

IVECO TIMING TOOLS



Diesel 2.3JTD (Belt) / 3.0JTD (Chain)

AST4925

Models:

Daily (03-09)

Engines:

2.3JTD	3.0JTD
F1AED481A	F1CE0481A(HPI)
F1AED481B	F1CE0481B(HPT)
F1AED481F	F1CE0481F(HPI)
F1AED481G	F1CE0481H(HPT)
F1AED481H	

Also for FIAT Ducato



Diesel 2.5D / 2.8D (Belt)

AST4865

Models:

Daily (91-06)
Turbo Daily (94-00)

Engines:

2.5D	2.8D
8140.07	8140.23
8140.21	8140.43B
8140.27S	8140.43C
8140.47	8140.43N
8140.47R	8140.43R
8140.67F	8140.43S
8140.97	8140.63
	8140.23.27
	8140.43.37

Also for FIAT, PSA,
RENAULT models





Petrol 3.2 / 3.5 / 4.0 / 4.2 V8 (Chain)

AST4980

Models:

XJ8 (97-09)
XJR (97-09)
S-Type (99-08)
XF (08-09)
XK8 (97-09)
XKR (98-09)

Engines:

AJ26 series	3.2	AC	BC	LC	4.2	1B	5G	SB
AJ27 series		KB	CC	MA		2B	9G	TB
AJ28 series		KC	CE	MB		3B	HB	PC
AJ34 series	3.5		DC	NB		1G	HG	
	RB		EC	NC				
			GB	PA				
			GC	PB				
			LB					

**Also for
LAND ROVER models**



AST4985

Diesel 2.0/2.2 (Chain) Engine Timing And Pump R & I

AST5130

Model:

X-Type (X400)

Engines:

FMBA/B
DJBA
BG

**Also for CITROEN/PEUGEOT, FIAT, FORD,
LAND ROVER and LDV models.**



With this kit you will also need ...

AST4833

Auxiliary Belt Tensioner Wrench

Specialised wrench, essential to overcome restricted access to the auxiliary belt tensioner - auxiliary belt removal and installation



AST4833

AST5130 covers engine timing and pump removal/installation

KIT OPTION:

AST5135 Updates AST4370 to include H.P. pump removal on 2.4L engines in Transit (2006 onwards) with Denso common rail fuel systems



AST5135

Diesel 2.7 TDV6 (Belt)

AST4965

Models:

S-Type (04-08)
XJ6 (04-09)
XF (07-09)

Engines:
276DT/7G

**Covers Automatic
Manual Transmission
models**





Diesel 1.3 JTD / Multijet (Chain) Engine Overhaul Timing Kit

AST5080

Models:

Musa
Ypsilon

Engines:

188A9000 199B1000
199A2000 843A2000
199A3000

AST5080: For locking, setting and adjustment of engine timing during engine/cylinder head overhaul procedures. Includes all the tools from AST5085 and AST5086 sets.

Also for FIAT, FORD, ALFA ROMEO, SUZUKI and VAUXHALL/OPEL models



+ With this kit you will also need . . .

KIT OPTION:

AST5085 Smaller set for straight forward checking of camshaft and crankshaft timing



AST5085

AST5086 For counter holding the crankshaft and camshafts during engine timing setting and adjustment procedures. Used in conjunction with AST5085



AST5086

AST4884 Crankshaft Timing Position Tool (for applications where gearbox is removed)



AST4884

Diesel 1.9JTD / 2.4JTD (Belt)

AST4850

Models:

Lybra (99-07)
Musa (04-09)
Kappa (98-02)
Thesis (02-07)

Engines:

1.9JTD 8v.	2.4JTD 10v.	2.4JTD 20v.
323.02	838A8.000	841C.000
371.01	839A5.000	841D.000
188B2.000	839A6.000	841G.000
937A2.000		841H.000

Also for
ALFA ROMEO
and **FIAT** models

Kit Covers
latest 2.4 20v.
engines



Diesel 2.0JTD / 2.2JTD (Belt)

AST4820

Models:

Zeta (99-02)
Phedra (02-07)

Engines:

2.0JTD	2.2JTD
DW10ATED	DW12
(RHW/RHZ/ RHM/RHK/RHR)	(4HW)

Also for
CITROËN/
PEUGEOT and
FIAT models





Timing Tools

Petrol 0.9 TwinAir (Chain) AST5110

Models: Ypsilon	Engines: 312A2000
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Also for ALFA ROMEO, FIAT and CHRYSLER models.





Petrol 1.2 /1.4 16v. Twin Cams (Belt) AST4510A

Models: Ypsilon (96-09) Musa (04-09)	Engines: 1.2 16v 176B9.000 188A5.000	1.4 16v 843A1.000
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Also for FIAT models

Kit includes latest
VVT and Crank
Locking Tools



Petrol 1.4 Turbo MultiAir (Belt) AST5050

Models: Delta	Engines: 198A7000
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Also for ALFA ROMEO and FIAT models.

+

With this kit you will also need . . .

AST4844 Camshaft Sprocket Holding Tool








AST4844



Petrol 1.6 16v. Twin Cams (Belt)

AST4520A

Models:

Delta (96-99)
Lybra (99-06)

Engines:

182A4.000
182A6.000
182B6.000

Also for FIAT models



With this kit
you will also need ...



AST4519

TDC Positioning Tool
(Requires suitable DTI
such as AST3054-10)



AST4519

AST4523

Flywheel Holding Tool
(Crank Pulley removal)



AST4523

Petrol 2.0 16v. EW (Belt)

AST4825

Models:

Phedra (02-06)

Engines:

EW10
(RFN)

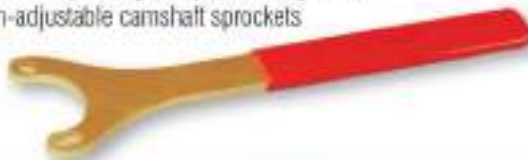
Also for

CITROËN/PEUGEOT models



With this kit you will also need ...

AST4576 Crank Pulley Flange Repositioning Tool -
engines with non-adjustable camshaft sprockets



AST4576



Petrol 3.0 V6 (Belt)

AST4580

Models:

Phedra (02-06)

Engines:

XFW

Also for
**CITROËN /
PEUGEOT &
RENAULT models**



Petrol 1.75Tbi (Belt)

AST5118

Models:

Delta

Engines:

939B1.000

Also for **ALFA
ROMEO models**





Diesel 2.2 Td4 (Belt)

AST5015

Models:
Freelander 2 (06-09)

Engines:
Td4 / DW128TED4



Also for VOLVO models

Diesel 2.0 Td4 / 3.0 Td6 (Chain)

AST4555A

Models:
Freelander (00-06)
Td4 (2.0d)
Range Rover (02-06)
Td6 (3.0d)

Engines:
204D3/Td4 (2.0 M47:BMW)
306D1/Td6 (3.0 M57:BMW)

Also for BMW &
ROVER models



+ If removing Pump you will also need ...

M47 / M57 Pump Remover / Sprocket Retainers

AST4553
for In Line engines



AST4554
for Transverse
mounted engines



AST4553

AST4554

Diesel 2.0D Turbo "L Series" (Belt)

AST4406A

Models:
Freelander (97-00)

Engines:
20T2N
20T2R

Also for ROVER &
HONDA models



+ With this set you will also need ...

AST4844 Sprocket Holding Tool
with Inter-changeable Pins

AST4844



**Diesel 2.4 Td4 (Chain)
Engine Timing and Pump R & I**

AST5130

Models:
Defender

Engines:
244DT



Timing Tools

Also for
CITROËN/PEUGEOT, FIAT, FORD,
JAGUAR, LAND ROVER and LDV models

+ With this kit you will also need . . .

AST4833
Auxillary Belt Tensioner Wrench
Specialised wrench, essential to overcome
restricted access to the auxillary belt tensioner -
auxillary belt removal and installation



AST4833

AST5130 covers engine timing and pump removal/installation

KIT OPTION:
AST5135 Updates AST4370 to include H.P. pump removal
on 2.4L engines in Transit (2006 onwards) with Denso
common rail fuel systems



AST5135



Diesel 2.7 TDV6 (Belt)

AST4965

Models:

Discovery 3 (04-09)
Range Rover Sport (05-09)

Engines:

276DT

Also for
JAGUAR and PSA models.

Covers Automatic &
Manual Transmission
models



Petrol 1.8 / 2.0 16v. (Belt)

AST4386

Models:

Freelander (97-06)
Discovery (93-97)

Engines:

18K16
20T4 (T16)

Also for ROVER models



NOTE: Kit AST4386 also covers 2.0D Turbo "L Series" diesels in LAND ROVER Freelander.



Petrol 2.5 KV6 (Front & Rear Belts)

AST4605A

Models:

Freelander (00-06)

Also for MG/ROVER models



Petrol 4.2 / 4.4 V8 (Chain)

AST4980

Models:

New Range Rover (06-09)

Range Rover Sport (05-09)

Discovery 3 (05-09)

Also for JAGUAR models

Engines:

4.2 4.4

428PS 448PN





Diesel XUD 1.9D (Belt)

AST4388A

Models:

Sherpa (95-96)
200 (95-96)
300 (95-96)
400 (95-96)
Pilot (96-02)

Engines:

XUD9A
XUD9A/L3

Also for CITROËN/
PEUGEOT models



Diesel DW8 1.9D (Belt)

AST4822

Models:

Pilot (02-05)

Engines:

DW8B/L4

Also for CITROËN/
PEUGEOT models





**Diesel 2.4 TD/TDi (Chain)
Engine Timing and Pump R & I**

AST5130

Models:
Convoy

Engines:
ZSD 424



Timing Tools

Also for
CITROËN/PEUGEOT, FIAT,
JAGUAR, LAND ROVER and FORD models

+ With this kit you will also need . . .

AST4833
Auxillary Belt Tensioner Wrench
Specialised wrench, essential to overcome restricted access to the auxillary belt tensioner - auxillary belt removal and installation



AST4833

AST5130 covers engine timing and pump removal/installation

KIT OPTION:
AST5135 Updates AST4370 to include H.P pump removal on 2.4L engines in Transit (2006 onwards) with Denso common rail fuel systems



AST5135

Diesel 2.5CRD (Belt)

AST4945A

Models:
Maxus (05-09)

Engines:
VM2516L
VM2516L09

Also for
CHRYSLER-JEEP
models





Timing Tools

Petrol 1.25 to 2.3 16v. (Belt/Chain)

AST4404C

Models:

121 (95-00)
2 (02-07)
3 (03-09)
5 (05-09)
6 (02-09)
MX-5 (05-09)
MPV (02-05)
Tribute (01-04)

Engines:

1.25 16v.	1.4 16v.	1.6 16v.	2.0 16v.	2.3 16v.
DHA	FXJA	FYJA	LF	L3
FLJA	FXJB	1.8 16v.	YF	
FLJB		L8		



Also for FORD models



With this Set you will also need . . .

**AST4629 Crankshaft Pulley Remover/
Installer Set (Belt)**

121 - 1.25 16v. DHA



AST4629

**AST4736 Crankshaft Pulley Holding
Tool (Chain)**

3 & 6 - 1.8, 2.0, 2.3 16v.
L8, LF, YF, L3



AST4736

**AST4394 Camshaft
Sprocket Holding
Tool (Belt)**



AST4394

Diesel 1.4 / 1.6D (Belt)

AST4735A

Models:

2 (02-09)
3 (04-09)

Engines:

F6JA
F6JB
Y6



Also for FORD, VOLVO and PSA models

MG-ROVER - see ROVER Timing Tools PAGE 61-62



Petrol 1.4 / 1.6 16v. Twin Cams N12 & N14 (Chain)

AST5020

Models:

Mini One R56 (07-09)
Cooper R55/R56 (06-09)
Cooper S R55/R56 (06-09)

Engines:

N12 1.4 & 1.6 (Valvetronic)
N14 1.6 (Direct Injection)

Also for

CITROËN/PEUGEOT models



AST5025 / AST5030

Two smaller kits are available to cover each of the engine types

AST5025 for N12 Valvetronic engines.

AST5030 for N14 Direct Injection engines

All these kits utilise the same case + insert as **AST5020** Kit and can be upgraded to cover the additional engines, at a later date, as required.



+ With this Kit you will also need . . .

To carry out removal & installation of the Timing Chain Assembly and related service work you will also need **AST5045** Timing Chain Service Tool Set.



AST5045

Diesel 1.6 (Belt)

AST5044

Models:

Cooper D R55/R56 (06-09)

Engines:

W16

Incorporates Front Panel Support Guides to place Front Panel in "Assembly Position" for timing belt replacement.



Petrol 1.8 to 3.5 16v./V6 (Belt)

AST4657

Models:

Colt (89-95)	Space Runner (99-04)
Lancer (89-95)	Space Wagon (92-05)
Carisma (96-05)	Outlander (03-07)
Galant (93-03)	Shogun/Pajero/Pinnin/
Sigma (91-96)	Montero (94-07)
Eclipse (91-95)	Challenger (98-00)
3000GT (93-00)	Grandis (04-09)
Space Star (99-06)	L200/Triton (97-06)

Engines:

1.8 16v./GDi 4G67, 4G93	2.5 V6 6G73, 6A13
2.0 / 16v./ V6 / GDi 4G63, 4G94, 6A12	3.0 V6 6G72
2.4/GDi 4G64, 4G69	3.5/GDi V6 6G74

Also for HYUNDAI models



Diesel 1.9D DI-D (Belt)

AST4760B

Models:

Carisma (97-05)
Space Star (00-06)

Engines:

F9Q-1/2
F8Q

Also for
RENAULT and
VAUXHALL/OPEL
models



For adjusting injection pump timing you will need....
AST4389 "RAM" Injection Timing Tool Set

Models:

Carisma (97-02)

Engines:

F8Q



AST4389

Diesel 2.0D DI-D (Belt)

AST4840

Models:

Grandis (05-09)
Outlander (07-09)

Engines:

BSY (Unit Injection)

COVERS Pump Düse
engine variants with
Hydraulic and Mechanical
belt tensioners





Diesel 1.5 dCi (Belt)

AST4961

Models:

Micra K12 (03-09)
Almera N16 (02-06)
Note E11 (06-09)
Qashqai J10 (07-09)
Kubistar X76 (03-09)

Engines:

K9K - 260/270/
272/274/
276/702/
704/710

Also for RENAULT models



Diesel 1.5 / 1.9 / 2.2 / 2.5 dCi (Belt)

AST4760B

Models:

Micra K12 (03-09)
Almera N16 (02-06)
Note E11 (06-09)
Qashqai J10 (07-09)
Primera P12 (03-07)
Kubistar X76 (03-09)
Primastar X83 (02-09)
Interstar X70 (02-09)

Engines:

1.5dCi
K9K - 260/270/272/274/
276/702/704/710

1.9dCi

F9Q - 760/762/772/774

2.2dCi

G9T - 722/750

2.5dCi

G9U - 632/650/
720/724/726/
750/754

Also for

RENAULT and
VAUXHALL/OPEL models



Diesel 2.0 dCi (Chain)

AST4975

Models:

Qashqai J10 (07-09)
X-Trail T31 (07-09)
Primastar X83 (06-09)

Engines:

2.0dCi
M9R - 780/830/832/833

Also for RENAULT and VAUXHALL/OPEL models



With this Kit you will also need ...

AST4939 Universal Handle for Crank Pulley Holding Tool

AST4939



Petrol 1.6 16v. Twin Cams (Belt)

AST4962

Models:

Kubistar X76 (03-09)

Engines:

K4M - 752/753

Also for

RENAULT models



OPEL - see VAUXHALL/OPEL Timing Tools PAGE 67-71

PEUGEOT - see CITROËN-PEUGEOT PAGE 20-24



Petrol 1.4 / 1.6 / 1.8 / 2.0(t) 16v. Twin Cams (Belt) K4J / K4M / F4P / F4R BASIC SET

AST4960

Models:

Clio II (99-06)
Megane (99-03)
Megane Scenic (99-00)
Scenic (99-03)
Laguna (98-01)
Laguna II (01-05)

Engines:

1.4 16v.
K4J - 700/710/711/712/
713/714/715/750

1.8 16v. (Laguna II)
F4P - 720/722/770/771/
772/773/774/775

1.6 16v.
K4M - 700/701/704/706/708/
709/710/711/712/714/
718/720/724/732/734/
740/742/743/744/745/
746/748.

Set **AST4960** covers belt replacement on the above models / engine codes.

K4J/K4M/F4P/F4R engines were originally introduced in 1998. As the engines have developed, additional timing tools have become necessary to follow correct **RENAULT** belt replacement procedures, involving releasing camshaft sprockets and changing to a fixed crankshaft gear.

Workshops with **AST4960** can extend the application coverage of their **AST4960** Set via the additional timing tools detailed below.

 **To extend the application coverage of AST4960 Set, you will need....**



For 1.4 & 1.6 16v. engines (K4J / K4M) AST4623 Camshaft Sprocket Locking Device

Models:

Clio III (05-09)
Modus (04-08)
Scenic II (03-09)
Grand Scenic II (03-09)
Laguna II (05-07)
Kangoo (01-09)

Engines:

1.6 16v.
K4M - 708/716/730/732/750/752/753/
760/761/766/782/800/801/812/813



AST4623

AST4924 Timing Belt Guide Pulley Wrench

Models:

Clio III (05-09)
Modus (04-08)
Megane II (02-09)
Scenic II (03-09)
Grand Scenic II (03-09)
Laguna II (05-07)
Kangoo (01-09)

Engines:

1.4 16v.
K4J - 730/732/740/770/780

1.6 16v.
K4M - 708/716/730/732/750/752/753/
760/761/764/766/782/790/791/792/
794/800/801/802/804/812/813



AST4924

For 1.8 & 2.0(t) 16v. engines (F4P / F4R(t)) AST4923 Camshaft Sprocket Locking Device

Models:

Clio II (06-09)
Megane 99-03)
Megane II (02-09)
Megane/Scenic (99-00)
Scenic/RX4 (99-03)
Scenic/Grand Scenic II (03-09)
Laguna (98-01)
Laguna II (01-07)
Espace/Grand Espace (98-02)
Espace/Grand Espace IV (02-09)
Traffic II (01-09)

Engines:

1.8 16v.
F4P - 720/722
(Megane & Scenic) /760

2.0(t)16v.
F4R - 700/701/712/
713/714/715/720/722/
730/732/740/741/744/
746/770/771/776/780/
784/786/787/790/791/
792/794/795/796/797/
820/830



AST4923

ALL THE TOOLS DETAILED ABOVE ARE ALSO AVAILABLE IN THE

LARGER COMBINATION KITS DETAILED ON PAGE 55



Petrol 1.4 / 1.6 / 1.8 / 2.0(t) 16v. Twin Cams (Belt) K4J / K4M / F4P / F4R

AST4964

Models:

Clio II (99-06)
Clio III (05-09)
Modus (04-08)
Megane (99-03)
Megane II (02-09)
Megane Scenic (99-00)
Scenic/RX4 (99-03)
Scenic II (03-09)
Grand Scenic II (03-09)
Laguna (98-01)
Laguna II (01-07)
Espace (02-09)
Grand Espace (02-09)
Kangoo (01-09)
Traffic II (01-09)

Engines:

Full details of specific engine codes covered by AST4964 Kit are provided on the Application Charts on Pages 56-57.



NEW KITS FOR REVISED RENAULT TIMING BELT REPLACEMENT PROCEDURES

These engines were originally introduced in 1998. As the engines developed over the years, additional timing tools have become necessary to follow correct **RENAULT** belt replacement procedures, involving releasing camshaft sprockets and changing to a fixed crankshaft gear.

COMPREHENSIVE COVERAGE

AST4964 Kit incorporates **ALL** the required timing tools needed to cover the current belt replacement procedures on the complete range of **RENAULT 1.4, 1.6, 1.8 & 2.0 16v. engines**, across **ALL** models detailed.



Two Smaller Kit Options

AST4962, AST4963

Two smaller kits are available to cover each engine range separately.

Kit AST4962 – 1.4 & 1.6 16v. K4J / K4M

Kit AST4963 – 1.8 & 2.0(t) 16v. F4P / F4R

These kits utilise the same case + insert as **AST4964** and can be upgraded with the tools required to cover the additional applications at a later date. Full details of specific engine codes covered by each kit are provided on the Application Charts Pages 56-57.



AST4962

AST4963



Renault Timing Tools - K4J / K4M / F4P / F4R Engines

Engine Type	Engine Code	Year	COMBINATION KITS (see PAGE 55 for applications)			BASIC SET + ADDITIONAL TIMING TOOLS (see PAGE 54 for applications)			
			AST4964 Full Kit All Engines	AST4962 1.4/1.6 Engines	AST4963 1.8/2.0 Engines	AST4950 Basic Set	AST4623 Sprocket Hold	AST4924 Pulley Wrench	AST4923 Sprocket Hold
K4J - 1.4 16v.	700	00-06	●	●		●			
	710	01-09	●	●		●			
	711	01-09	●	●		●			
	712	99-06	●	●		●			
	713	99-06	●	●		●			
	714	00-03	●	●		●			
	715	00-06	●	●		●			
	730	02-09	●	●		●		●	
	732	03-09	●	●		●		●	
	740	05-09	●	●		●		●	
	750	99-03	●	●		●		●	
	770	04-08	●	●		●		●	
	780	05-09	●	●		●		●	
	K4M - 1.6 16v.	700	99-03	●	●		●		
701		99-03	●	●		●			
704		99-03	●	●		●			
706		99-03	●	●		●			
708		99-09	●	●		●	(2)	(2)	
709		99-03	●	●		●			
710		01-05	●	●		●			
711		01-05	●	●		●			
712		00-03	●	●		●			
714		01-05	●	●		●			
716		05-07	●	●		●	●	●	
718		01-05	●	●		●			
720		98-01	●	●		●			
724		98-01	●	●		●			
730		01-09	●	●		●	●	●	
732		01-05	●	●		●	(2)	(2)	
734		01-05	●	●		●			
740		01-05	●	●		●			
742		02-05	●	●		●			
743		01-05	●	●		●			
744		01-05	●	●		●			
745		01-05	●	●		●			
746		02-05	●	●		●			
748		02-05	●	●		●			
750		01-07	●	●		●	●	●	
752		01-09	●	●		●	●	●	
753		01-09	●	●		●	●	●	
760		02-09	●	●		●	(1)	●	
761		02-09	●	●		●	(1)	●	
764		03-09	●	●		●		●	
766	05-09	●	●		●	●	●		
782	03-07	●	●		●	●	●		
790	04-08	●	●		●		●		
791	04-08	●	●		●		●		
792	04-08	●	●		●		●		
794	04-08	●	●		●		●		



Renault Timing Tools - K4J / K4M / F4P / F4R Engines

			COMBINATION KITS (see PAGE 55 for applications)			BASIC SET + ADDITIONAL TIMING TOOLS (see PAGE 54 for applications)				
Engine Type	Engine Code	Year	AST4964 Full Kit All Engines	AST4962 1.4/1.6 Engines	AST4963 1.8/2.0 Engines	AST4960 Basic Set	AST4623 Sprocket Hold	AST4924 Pulley Wrench	AST4923 Sprocket Hold	
K4M - 1.6 16v. Continued	800	05-09	●	●		●	●	●		
	801	05-09	●	●		●	●	●		
	802	04-08	●	●		●		●		
	804	04-08	●	●		●		●		
	812	05-09	●	●		●	(1)	●		
	813	05-09	●	●		●	(1)	●		
F4P - 1.8 16v.	720	00-05	●		●	●			(1)	
	722	00-05	●		●	●			(1)	
	760	98-01	●		●	●			●	
	770	01-05	●		●	●				
	771	01-05	●		●	●				
	772	01-05	●		●	●				
	773	01-05	●		●	●				
	774	01-05	●		●	●				
	775	01-05	●		●	●				
	F4R - 2.0 16v.	700	98-02	●		●	●			●
		701	98-02	●		●	●			●
712		01-05	●		●	●			●	
713		01-05	●		●	●			●	
714		01-07	●		●	●			●	
715		01-05	●		●	●			●	
720(1)		01-06	●		●	●			●	
722(1)		01-06	●		●	●			●	
730		99-04	●		●	●			●	
732		01-04	●		●	●			●	
740		99-03	●		●	●			●	
741		99-03	●		●	●			●	
744		99-03	●		●	●			●	
746		01-03	●		●	●			●	
770		02-09	●		●	●			●	
771		02-09	●		●	●			●	
776(1)		04-07	●		●	●			●	
780		99-01	●		●	●			●	
784(1)		05-07	●		●	●			●	
786(1)		05-07	●		●	●			●	
787(1)		05-07	●		●	●			●	
790		02-09	●		●	●			●	
791		02-09	●		●	●			●	
792		02-09	●		●	●			●	
794(1)		02-06	●		●	●			●	
795(1)		02-06	●		●	●			●	
796(1)		04-06	●		●	●			●	
797(1)		04-06	●		●	●			●	
820(1)		06-09	●		●	●			●	
830		06-09	●		●	●			●	

(1) = Megane/Scenic
(2) = Kangoo



Petrol 1.2 to 2.2 (Belt)

D4F / D7F / E7F / E7J / F3P / F7P / F3R / J7R / F7R / J7T

AST4390

Models:

Twingo (96-07)
Clio (90-98)
Clio II (98-09)
Clio III (05-09)
Modus (04-08)
R19 (89-96)
Megane (95-03)
Megane Scenic (96-99)
Laguna (94-01)
Safrane (92-01)
Espace (91-99)
Extra/Rapid/Express (90-02)
Kangoo (98-09)

Engines:

1.2 – D7F 700/701/702/703/704/708/
710/720/722/726/730/744/746/764/766
E7F 700/704/706/708/750
1.2 16v s.o.h.c. -
D4F 702/704/706/708/712/714/716/722/728/730/740/764
1.4 – E7J 601/624/626/634/635/700/706/710/711/716/
718/719/720/724/726/728/740/742/745/754/756/
757/764/770/771/773/780
1.8 – F3P 674/678/682/700/704/706/708/710/
712/714/720/724/755/758/760/765/07/R/7
1.8 16v. –F7P 700/704/722
2.0 – F3R 611/722/723/728/729/750/
751/752/768/769/791/796/797/798/
J7R 732/733/734/735/768
2.0 16v. – F7R 710/714
2.2 – J7T 760/761/762/766



With this Kit you will also need ...

AST3398 Flywheel Holding Tool

(Crank Pulley removal)

F3P, F3R, E7J, F7P, F7R



AST3398

AST4356 Flywheel Holding Tool

(Crank Pulley removal)

D7F



AST4356

AST4364 Tensioner Tool –

**Clio, Kangoo,
Twingo, D7F**



AST4364

Petrol 2.0 16v. IDE – F5R (Belt)

AST4860

Models:

Megane (99-03)
Laguna II (01-05)

Engines:

F5R
700
701
740



Petrol 3.0 24v. V6 L7X (Belt)

AST4580

Models:

Laguna (97-01)
Laguna II (01-05)
Safrane (96-01)
Espace (98-02)

Engines:

L7X 700/701/727/731



Also for **CITROËN/PEUGEOT** and **LANCIA** models



Diesel 1.5dCi K9K (Belt)

AST4961

Models:

Clio II/Campus (01-09)
Clio III (05-09)
Logan (06-09)
Modus (04-08)
Megane II (02-09)
Scenic/Grand Scenic II (03-09)
Kangoo (00-09)

Engines:

**1.5dCi
K9K –**
700/702/704/706/710/712/714/716/
718/722/724/726/729/732/750/752/
760/762/764/766/768/790/792



Diesel 1.6D / 1.9D/Turbo/dTi / 2.1D Turbo / 2.2D/Turbo (Belt) F8M / F8Q / F9Q / J8S / G8T

AST4390

Models:

Clio (90-98)
Clio II (98-03)
R19 (91-96)
Megane (95-03)
Megane Scenic (96-99)
Scenic (99-03)
Laguna (95-01)
Safrane (91-01)
Espace (91-02)
R5/Van (91-96)
Extra/Rapid/Express (92-02)
Kangoo (98-04)
Trafic (97-00)
Master II (00-03)

Engines:

1.6D – F8M 736/760
1.9D – F8Q 600/606/620/622/624/630/632/
640/644/646/648/662/672/676/
678/680/682/684/692/696/714/
730/732/742/744/764/776
1.9D Turbo – F8Q 610/720/722/740/
768/784/786/788
1.9dTi – F9Q 710/716/717/730/734/
744/770
2.1D Turbo – J8S 620/760
2.2D/Turbo – G8T 714/716/740/
752/760/790/
792/794



Also for CHRYSLER, MITSUBISHI,
VAUXHALL/OPEL and VOLVO models



With this Kit you will also need . . .

Flywheel Holding Tools (Crank Pulley Removal)

**F8M
Early F8Q
engines**



AST3398

**F8Q
F9Q
engines**



AST4356



Diesel 1.5 / 1.9 / 2.2 & 2.5dCi (Belt) K9K / F9Q / G9T / G9U

AST4760B

Models:

Clio II / Campus (01-09)
Clio III (05-09)
Modus (04-08)
Logan (05-09)
Megane (99-03)
Megane II (02-09)
Scenic / RX4 (99-03)
Scenic II / Grand Scenic II (03-09)
Laguna (99-01)
Laguna II (04-07)
Espace / Grande Espace (00-09)
Kangoo (00-09)
Trafic II (01-09)
Master II (00-06)

Engines:

1.5dCi – K9K
700/702/704/706/710/712/714/716/
718/722/724/728/729/732/750/752/
760/762/764/766/768/790/792

1.9dCi – F9Q
650/664/670/674/680/690/718/732/
733/740/748/751/752/754/758/760/
762/772/774/790/800/803/
804/808/812/820/826

2.2dCi – G9T
600/605/642/700/702/703/706/
707/710/720/722/742/743/750

2.5dCi – G9U
630/720/724/726/730/750/754



Updated for Clio III – 1.5dCi
+ 1.9dCi 600/800 Series

Also for VAUXHALL/OPEL and NISSAN models ...
plus 1.5dCi K9K engines in DACIA Logan

Diesel 2.0 dCi (Chain)

AST4975

Models:

Megane II (07-09)
Scenic / Grand Scenic (06-09)
Laguna II (05-07)
Laguna III (07-09)
Vel Satis (08-09)
Espace / Grande Espace (08-09)
Koleos (08-09)
Trafic II (07-09)

Engines:

2.0dCi
M9R – 700/721/722/724/740/742/746/760/
761/780/802/803/805/830/832/833



Also for NISSAN and
VAUXHALL/OPEL models



With this Kit you will also need ...

AST4939 Universal Handle for Crank Pulley Holding Tool

AST4939



Diesel 2.5D/Turbo / 2.8D/dTi/Dci (Belt) S8U / S9U / S9W

AST4865

Models:

Trafic (80-00)
Master (80-07)
Mascot (99-07)

Engines:

2.5D – S8U 720/722/730/731/742/748/
750/752/770/772/780/782

2.5D Turbo – S9U 700/702/704/714/740

2.8dTi – S9W 700/702

2.8dCi – S9W 206/208/212

Also for CITROËN/PEUGEOT,
FIAT and IVECO models



ROVER (INCLUDING MG-ROVER) TIMING TOOLS



Petrol 1.4 to 2.0 16v. (Belts)

AST4386

Models:

Rover

200/Coupe/Cabrio (92-99)
Streetwise (03-06)
400/Tourer (90-99)
600 (93-99)
800 (91-99)
25 (99-05)
45 (99-05)
75 (99-05)

MG

MG ZR (01-05)
MG ZS (01-05)
MG ZT/ZT-T (03-05)
MGF (95-02)
MG TF (02-05)
MG Express (03-05)

Engines:

Rover 16v. -1.1K16, 1.4K16,
1.6K16, 1.8K16, 1.8VVC(K16)

1.6 16v-DA16A8

1.8 - F18A3

2.0/Turbo - F20Z1, F20Z2,
20T4.

2.3 H23AZ

Also for LAND ROVER Freelander 1.8K16



With this Kit you will also need ...

AST4844 Crankshaft Pulley Removal Tool

Sprocket Holding Tool with
Inter-changeable Pins
218/Coupe/Cabrio, 25,
MG ZR, MGF 1.8vi/VVC



AST4844



Timing Tools

Petrol 2.0 & 2.5 KV6 (Belts)

AST4600/AST4605A

Models:

Rover

45 (99-05)
75 (99-05)
825 (96-99)

MG

MG ZR (04-05)
MG ZS (01-05)
MG ZT/ZT-T (01-05)

Engines:

KV6 2.0 & 2.5

Also for LAND ROVER Freelander V6

Timing belt replacement for **all** variants of the Rover KV6 engine (except 190) in Rover, MG & LR Freelander is covered by Kit AST4600. Timing Kit AST4605A is also available for Rover 45/75 and MG models only.

For KV6 190 engines in MG ZT/ZT-T additional set AST4617 is required.

AST4605A

Rover 45 & 75, MGZS, MGZT/ZT-T
(160-180)

LR Freelander
2.0 & 2.5 V6



ROVER (INCLUDING MG-ROVER) TIMING TOOLS



Diesel 1.5D, 1.8D/Turbo, 1.9D (Belt)

AST4386

Models:

100 (95-98)
218D (91-95)
418D (94-97)

Engines:

1.5D
TUD5 (VJY/VJZ)
1.8D/1.9D
XUD7TE(ABA)
XUD9(D9B)



With this Kit you will also need ...

AST4359 Flywheel Holding Tool

100
1.5D



AST4359



Timing Tools

Diesel 2.0D Turbo (Belt)

AST4406A

Models:

Rover

220D (95-99)
25 (99-05)
Streetwise (03-06)
420D (95-99)
45 (99-05)
620D (95-99)

MG

MG ZR (01-05)
MG ZS (01-05)
MG Express (03-05)

Engines:

2.0D Turbo

20T2N
20T2R
20T

Also for HONDA & LAND ROVER models



With this Set you will also need ...

AST4844 Sprocket Holding tool with Inter-changeable Pins

AST4844



Diesel 2.0D CDTi (Chain)

AST4555A

Models:

Rover

75 (99-05)

MG

MG ZT (01-05)

Also for BMW &
LR Freelander Td4

Engines:

M47R : (BMW)



If removing the pump you will also need ...

AST4554 Pump Remover/Sprocket Retainer

Retention of pump sprocket position,
in-situ, when removing pump.

AST4554



SAAB TIMING TOOLS



Petrol 1.8i (Belt)

AST4620

Models:
9-3 (03-09)

Engines:
Z18XE

Also for VAUXHALL/
OPEL models



Diesel 1.9D TiD (Belt)

AST4775

Models:
9-3 (04-09)
9-5 (05-09)

Engines:
Z19DT
Z19DTH

Also for
VAUXHALL/OPEL models



Diesel 2.2D TiD (Chain)

AST4480

Models:
9-3 (98-04)
9-5 (02-06)

Engines:
D223L

Also for
VAUXHALL/OPEL models



Timing Tools

SUZUKI TIMING TOOLS



Petrol 1.0 / 1.2 (Chain)

AST4485

Models:
Wagon R+ (05-08)

Engines:
Z10XEP
Z12XEP

Also for
VAUXHALL/OPEL models



Diesel 1.3D Engine Overhaul Timing Kit (Chain)

AST5080

Models:
Ignis
Swift
Wagon R+

Engines:
Z13DT

Also for ALFA ROMEO, FIAT,
FORD, and OPEL/VAUXHALL models.

AST5080 – For locking, setting and adjustment of engine timing during engine/cylinder head overhaul procedures. Includes all the tools from AST5085 and AST5086 sets.

+ With this kit you will also need . . .

AST5085 Smaller set for straight forward checking of camshaft and crankshaft timing



AST5085

AST5086 For counter holding the crankshaft and camshafts during engine timing setting and adjustment procedures. Used in conjunction with AST5085



AST5086

AST4884 Crankshaft Timing Position Tool (for applications where gearbox is removed)



AST4884



Diesel 1.9D DDiS (Belt)

AST4760B

Models:
Grand Vitara (05-09)

Engines:
F9QB2

Also for
RENAULT, VAUXHALL/OPEL
and NISSAN models.



Diesel 2.0D Turbo (Belt)

AST4820

Models:
Grand Vitara (00-06)

Engines:
RHW
RHZ

Also for CITROËN/PEUGEOT,
FIAT and LANCIA models





Petrol 1.0 / 1.2 / 1.4 Twin Cams / ecoFLEX (Chain)

AST4485

Models:

Agila
Astra-G+H
Combo-C
Corsa-B+C+D
Meriva-A
Tigra-B

Engines:

1.0 12v.	1.2 16v.	1.4 16v.
X10XE	X12XE	Z14XEL
Z10XE	Z12XE	Z14XEP
Z10XEP	Z12XEP	Z14XEF

Includes LPG and DualFuel engines

Includes 1.0/1.2/1.4
TWINPORT ENGINES

Also for SUZUKI models



With this Kit you will
also need . . .

AST4490 Auxiliary Belt Tensioner Tool Set



AST4490

Timing Tools

Petrol 1.0 / 1.2 / 1.4 Twin Cams / ecoFLEX (Chain)

AST5090

Models:

Adam
Ampera
Astra-J
Cascada
Corsa-D
Insignia
Meriva-B
Mokka

Engines:

1.0	1.4.	
AX10XEP	A14NEL	A14XER
	A14NEL/LUH	A14XER/LDD
	A14NEL/LUJ	A14XFL/LUJ
1.2	A14NET/LUJ	B14NEL/LUH
A12XEL	A14XEL	B14NET/LUJ
A12XEL/LWD	A14XEL/L2Z	B14XER/LDD
A12XER	A14XEL/LDD	

Includes LPG engines



Also for CHEVROLET models



With this Kit you will
also need . . .

AST4742 Module Removal Set to remove Ignition
Module for timing adjustment applications.



AST4742



Timing Tools

Petrol 1.4 to 2.2 16v EcoTec / ecoFLEX Twin Cams (Belt)

AST4620

Models:

Astra-F+G+H
Combi-C
Corsa-B+C
Frontera-A+B
Meriva-A
Omega-B
Signum
Tigra/Tigra-B
Vectra-B+C
Speedster/VX220
Zafira-A+B
Zafira-B/Family

Engines:

1.4 16v.	1.8 16v.	Z20LEH
X14XE	C18XEL	Z20LEL
Z14XE	X18XE	Z20LER
	X18XE1	Z20LET
1.6 16v.	Z18XE	2.2 16v.
X16SEJ	Z18XEL	X22SE
X16XE		X22SE
X16XEL	2.0 16v.	X22XE
Y16XE	C20SEL	Y22SE
Z16SE	C20XE	Y22XE
Z16XE	X20XEV	Z22XE
Z16YNG		



Includes DualFuel and CNG engines



With this Kit you will also need . . .

AST501A Petrol Tensioner Adjuster 41mm (via Water Pump) Engine: 1.6/ Z16SE



ASTV501A

Petrol 1.6 / 1.8 Twinport / ecoFLEX 16v. (Belt)

AST4995

Models:

Astra-G+H+J
Corsa-D
Insignia
Meriva-A
Mokka
Signum
Vectra-C
Zafira-B+C
Zafira-B Family
Zafira-C Tourer

Engines:

1.6 16v/Turbo	1.8 16V
A16LEL	A18XEL/2HO
A16LET/LLU	A18XER
A16XER	A18XER/2HO
A16XER/LDE	Z18XER
A16XNT	
A16XNT/LGE	
Z16LEL	
Z16LER	
Z16LET	
Z16XE1	
Z16XEP	
Z16XER	
Z16XNT	



With this kit you will also need . . .

AST4742 Module Removal Set to remove Ignition Module for timing adjustment applications

AST4742

Petrol 2.2 16v. Twin Cams (Chain)

AST4766

Models:

Astra-G+H
Signum
Speedster/VX220
Vectra-B+C
Zafira-A+B

Engines:

Z22SE
Z22YH





Petrol 2.0 16v. Twin Cams (Belt)

AST4963

Models:
Vivaro

Engines:
F4R
720
722
820



With this Kit
you will also need . . .

AST4353 Flywheel Holding Tool (for crank pulley removal)



AST4353



Diesel 1.3 CDTi/ecoFLEX Engine Overhaul Timing Kit (Chain)

AST5080

Models:

Agila
Agila-B
Astra-H+J
Combo-C+D
Corsa-C+D
Meriva-A+B
Tigra-B
Zafira-B

Engines:

A13DTC	LN9
A13DTC/LDV	Y13DT
A13DTE	Z13DT
A13DTE/LSF	Z13DTE
A13DTR	Z13DTH
A13FD/LN9	Z13DTJ
D13A	Z13DTR



Also for FIAT, FORD, LANCIA, ALFA ROMEO,
and SUZUKI models

AST5080 – For locking, setting and adjustment of engine timing during engine/cylinder head overhaul procedures. Includes all the tools from AST5085 and AST5086 sets.



With this kit you will also need . . .

AST5085 Smaller set for straight forward checking of camshaft and crankshaft timing



AST5085

AST5086 For counter holding the crankshaft and camshafts during engine timing setting and adjustment procedures. Used in conjunction with AST5085



AST5086

AST4884 Crankshaft Timing Position Tool (for applications where gearbox is removed)



AST4884



Diesel 1.6D/1.9D/2.0D CDTi/Bi-CDTi/ecoFlex (Belt)

AST4775

Models:

Astra-H+J
Cascada
Combo-D
Insignia
Signum
Vectra-C
Zafira-B
Zafira-C Tourer

Engines:

1.6CDTi

A16DT/LJ5
A16DTH/LJ5
1.9CDTi
Z19DT
Z19DTH
Z19DTJ
Z19DTL

2.0CDTi

A20DT/LBR
A20DT/LHZ
A20DTA/LBS
A20DTC/LCD
A20DTE/LHV
A20DTH/LBS
A20DTJ/LBX

A20DTL/LBQ
A20DTR/LBY



Also for SAAB models

Diesel 1.9D/DTi (Belt)

AST4390

Models:

Arena (97-01)
Movano (99-02)

Engines:

F8Q
F9Q770

Also for RENAULT models



Diesel 1.9Di/DTi/CDTi / 2.2 DTi / 2.5DTi/CDTi (Belt)

AST4760B

Models:

Vivaro
Movano

Engines:

1.9D

F9Q 724/760/762/772/774

2.2D

G9T 720/722/750

2.5D

G9U 630/632/650/720/
724/726/730/750/754

Also for RENAULT
and NISSAN models



Diesel 2.0 CDTi (Chain)

AST4975

Models:

Vivaro (07-09)

Also for RENAULT and NISSAN models

Engines:

M9R

780/782/784

+ With this Kit you will also need . . .

AST4939 Universal Handle for Crank Pulley Holding Tool

AST4939





Diesel 2.0DTi / 2.2DTi (Chain)

AST4480

Models:

Astra-G	Zafira-A
Vectra-B+C	Sintra
Signum	Frontera-B
Omega-B	

Engines:

2.0D	2.2D
X20DTH	X22DTH
X20DTL	Y22DTH
Y20DTH	Y22DTR
Y20DTL	

Also for SAAB models



With this Kit you will also need ...
AST4491 Fuel System Priming Device



AST4491

Diesel 2.0D (Belt)

AST5040

Models:

Antara

Engines:

Z20DM
Z20DMH

Also for CHEVROLET models



With this Kit you will also need ...
AST4844 Sprocket Holding Tool



AST4844

Diesel 2.5D Turbo Y25DT (Chain)

AST4555A

Models:

Omega-B (01-03)

Engines:

Y25DT

Also for BMW and
LAND ROVER models



If removing the pump you will also need ...
AST4553 Pump Remover/Sprocket Retainer



AST4553

Diesel 2.5D / 2.8D Turbo (Belt)

AST4865

Models:

Arena (97-01)
Movano (98-03)

Engines:

2.5D
S8U 770/772
2.8D
S9W 700/702

Also for FIAT,
CITROËN/PEUGEOT,
IVECO models





Petrol 1.0 (3 Cylinder) Twin Cam (Belt)

AST5140

Covers engine timing and belt change applications on the latest VAG 1.0 petrol engines

Models:

- Seat**
- Mii
- Skoda**
- Citigo
- Volkswagen**
- Up

Engines:

- CHYA
- CHYB
- CPGA



With this kit you will also need . . .



AST4844 Camshaft Sprocket Holding Tool



AST4844

Petrol 1.2 TFSI (Chain)

AST5115

Models:

Audi

- A1
- A3

Skoda

- Fabia II
- Octavia
- Praktik
- Rapid
- Roomster
- Yeti

Seat

- Altea/XL
- Ibiza
- Leon
- Toledo

Volkswagen

- Beetle
- Caddy/Maxi
- Golf/Plus/VI
- Jetta
- Polo
- Touran

Engines:

- CBZA
- CBZB
- CBZC



With this kit you will also need . . .



AST4844 Camshaft Sprocket Holding Tool



AST4844



Petrol 1.2 / 1.4TSi (Belt)

AST5145

Models:

Audi

A1/Sportback
A3/Sportback

Seat

Leon
Ibiza
Toledo

Skoda

Octavia
Fabia

VW

Polo
Golf
Jetta

Engines:

1.2TSi

CJZA
CJZB

1.4TSi

CGGA
CHPA
CMBA
CPVA
CRJA
CXSA

1.4TSi (ACT)

CPTA



Includes Multi-Fuel and
Blue Motion Technology engines



With this kit you will also need . . .

AST4844
Camshaft Sprocket
Holding Tool



AST4844

AST5144
Crankshaft Pulley
Holding Tool



AST5144



Petrol 1.2 6v./12v. (Chain)

AST4810

Models:

Seat

Ibiza/Cordoba (02-09)

Skoda

Fabia (02-07)
Fabia II (02-09)
Roomster (06-09)

V W

Polo (02-09)
Fox (05-09)

Engines:

6v.

AWY
BBM
BMD

12v.

AZQ
BME
BXV
BZG



With this Kit you will also need . . .

AST4844 Sprocket Holding Tool
with Inter-changeable Pins



AST4844

Petrol 1.4 / 1.6 16v./FSi. (Belt)

AST4635

Models:

Audi

A2 (00-06)

Seat

Arosa (99-05)
Ibiza/Cordoba (99-09)
Leon (99-09)
Toledo (99-08)
Inca (00-04)

Skoda

Fabia (99-07)
Fabia II (07-09)
Octavia (00-09)
Octavia II (04-09)
Roomster (06-09)

V W

Lupo (98-05)
Polo (98-09)
Golf/Bora (97-08)
Golf Plus (05-09)
Beetle (01-09)
Caddy (99-09)

Engines:

1.4 16v.

AFK
AHW
AKQ
APE
AQQ
AUA
AUB
AXP
BBY
BBZ
BCA
BKY
BUD
BXW

1.4 FSi

ARR

1.6 FSi

BAD

1.6 16v.

AJV
ARC
ATN
AUS
AVY
AZD
BCB



With this Set you will also need . . .

Crankshaft Pulley Holding Tools

Models:

V W

Lupo
Polo
Golf
Bora

Engines:

AVY AZD
ARC BCB
ATN
AUS



AST4632

Models:

Audi

A2
Skoda
Fabia/II
Octavia/II
Roomster

V W

Lupo
Polo
Beetle
Golf/Bora
Golf Plus
Caddy

Engines:

AUA AXP AKQ
AUB BCA APE
BBY BAD AQQ
BBZ AFK ARR
BKY AHW AJV
BUD



AST4634

Models:

Seat

Arosa
Ibiza/Cordoba
Leon
Toledo
Inca

Engines:

AFK AXP BCB
AQQ AUS BKY
AUB AZD BXW
APE BBY
AUA BBZ
AFH BCA
AHW



AST4642



Petrol 1.4 TFSi + 1.4 / 1.6FSi (Chain)

AST4845A

Models:

Audi

A3 (03-10)

Seat

Ibiza (08-10)

Leon (07-10)

Altea/XL (08-10)

Skoda

Fabia II (07-10)

Roomster (06-10)

Octavia II (04-10)

Superb II (08-10)

VW

Polo (02-09)

Golf (03-10)

Golf Plus (05-10)

Jetta (05-10)

Eos (06-10)

Scirocco (08-10)

Tiguan (07-10)

Touran (03-10)

Passat (05-10)

Engines:

1.4FSi

AXU

BKG

BLN

1.4TFSi

BLG

BMV

BWK

CAVA

CAVB

CAVC

CAVD

CAVF

CAXA

CAXC

CDGA

1.6FSi

BAG

BLF

BLP

BTS



With this kit you will also need . . .

AST3054-10

DTI (Dial Gauge)

for TDC Position Tool



AST3054-10

AST4844

Camshaft Sprocket
Holding Tool



AST4844

AST4634

Crankshaft Pulley
Holding Tool



AST4634

Camshaft Sprocket Holding Tool

AST4844

Timing belt replacement and engine timing procedures on many VAG belt and chain engines require the camshaft sprockets to be 'free to turn' on camshafts. AST4844 is used to counter-hold the sprocket(s) whilst releasing and tightening the sprocket bolt.

DO NOT use timing tools for counter-holding camshafts whilst releasing / tightening sprocket bolt.



AST4844
4 x sizes Inter-changeable
Location Pins



Belt Tensioner Adjuster Set

AST4641

All VAG Group

Timing Belt Tensioners with 2 locating holes in the tensioner pulley.

Set comprises:

1x each Adjusters AST4444, AST4633 & AST4637





Front End Support Guide Set

AST4741

Front End Panel Support Guide Set

Essential to extend front end to 'Service Position' for access during belt replacement.

Audi: A4, A5, A6, A8
VW: Passat



Comprises:
3 sets Front End Panel Support Guide Pins covering above models.

Petrol 1.6 / 1.8 / 1.8T / 2.0 / 2.0 16v./ 2.0FSi (Belt)

AST4740

Models:

Audi

80 (91-96)
A3 (96-09)
S3 (99-03)
A4 (95-08)
A6 (94-02)
TT (98-06)

Skoda

Fabia (00-07)
Octavia (96-07)
Octavia II (04-09)
Superb (02-08)

VW

Polo/Classic (95-02)
Golf/Bora (94-08)
Golf Plus (05-09)
Vento (92-97)
Beetle (99-09)
Jetta (05-09)
Passat (96-09)
Touran (03-09)
Sharan (95-09)
Caddy (95-06)
Transporter (90-09)

Seat

Ibiza/Cordoba (93-06)
Leon (99-09)
Altea/XL (04-09)
Toledo (94-09)
Alhambra (96-09)
Inca (95-04)

Engines:

1.6

1F
ABM
ADA
ADP
AEH
AEK
AFT
AHL
AKL
AKS
ALZ
ANA
APP
ARM
AUR
AVU
AYD
BFD
BFS
BFD
BGU
BSE
BSF
1.8
ABS
ADR
ADZ
AGN
AJP
AMU
APG

1.8

APT
APX
ARG
AVV
BFV
BVP
BVR
1.8T
AEB
AGU
AJH
AJL
AJQ
AMK
ANB
APP
APU
APY
AOA
AOX
ARX
ARY
ARZ
AUM
AUQ
AVC
AWC
AWT
AWU
AYP
BAM

1.8 16v.

ADL
2.0
2E
AAC
AAE
ABK
ABT
ACE
ADY
AEG
AGG
AKT
APK
AQY
ATM
ATU
AWF
AWG
AXA
AZG
AZH
AZJ
AZL
AZM
BEH
2.0 16v
ABF



Kit AST4740 also covers specific VAG Diesel engine applications – see VAG Diesel engine section

 **With this Kit you will also need . . .**

AST4741 Front End Panel Support Guide Set

Essential to extend front end to 'Service Position' for access during belt replacement.

Audi: A4, A5, A6, A8 **VW:** Passat



AST4741



Petrol 1.8 / 1.8T with Automatic Tensioner (Belt) Chain in Head **AST4808**

Models:

Audi

A3 (96-03)
S3 (99-03)
A4 (95-01)
A6 (95-02)
TT (98-06)

Seat

Ibiza (99-02)
Cordoba (99-02)
Leon (99-05)
Toledo (99-05)
Alhambra (97-09)

Skoda

Octavia (96-06)

VW

Golf/Bora (97-09)
Beetle (99-09)
Passat (96-05)
Sharan (97-09)

Engines:

ADR	APP	AUQ
AEB	APT	AUX
AGN	APU	AVC
AGU	APX	AVV
AJH	APY	AWC
AJL	AQA	AWU
AJP	AQX	AYP
AJQ	ARG	BAM
AMK	ARX	BEA
AMU	ARY	BFV
ANB	ARZ	BVP
APG	AJM	BVR



For 1.8/T engines with Adjustable Tensioner Roller – use AST4841 Set (refer to engine codes)

Petrol 1.8 / 1.8T / 2.0 16v. with Adjustable Tensioner Roller (Belt) **AST4841**

Models:

Audi

A4 (01-08)
A6 (01-05)
Cabriolet (03-07)

Seat

Ibiza (03-08)
Cordoba (03-08)

Skoda

Superb (02-08)

VW

Polo (06-09)
Eos (06-07)
Passat (01-05)

Engines:

ALT	BEX
AMB	BFB
AVJ	BJX
AWA	BKV
AWT	BLZ
BBU	



For 1.8/T engines with Automatic Tensioner – use AST4808 Set (refer to engine codes)

Petrol 2.0 FSi / TFSi Chain in Head Service **AST5060**

Models:

Audi

A3 (03-10)
A4 (02-10)
A6 (05-10)
TT (06-10)

Seat

Leon (05-10)
Toledo (04-09)
Altea/XL (05-09)
Exeo (09-10)

Skoda

Octavia II (04-09)

VW

Golf (04-10)
Golf Plus (05-09)
Jetta (05-09)
Eos (06-10)
Touran (03-09)
Passat (05-10)

Engines:

FSi

AWA	AXX	CDLA
AXW	BGB	CDLB
BHD	BHZ	CDLC
BLR	BPG	CDLD
BLX	BPJ	CDMA
BLY	BPY	
BMB	BUL	
BVX	BWA	
BVY	BWE	
BVZ	BWJ	
	BWT	
	BYD	
	BYK	
	BZC	

TFSi



With this kit you will also need ...

AST4844
Camshaft Sprocket
Holding Tool



AST4844

AST4848
Camshaft Sprocket
Remover



AST4848



VOLKSWAGEN Group 1.8 & 2.0 TSi / TFSi / vRS Petrol Engine Setting/Locking Kit (Chain)

AST5125

Models:

Audi

A3 Cabrio/Sportback
A4 Allroad/Quattro
A5 Coupe/Sportback
A6
Q3
Q5
TT

Models:

Seat

Alhambra
Altea/XL
Exeo
Leon
Toledo

Models:

Skoda

Octavia II
Octavia III
Superb II
Yeti

Models:

Volkswagen

Amarok
Beetle
Golf
Jetta
Passat/CC
Scirocco
Sharan
Tiguan
Transporter T5

Engines:

1.8

BYT
BZB
CABA
CABB
CABD
CDAA
CDAB
CDHH
CDHB
CGYA
CJEB
CJSA
CJSB

2.0

CAWA
CAWB
CBFA
CCTA
CGZA
CCZB
CCZC
CCZD
CDNB
CDNC
CDND
CESA
CETA
CFKA
CFPA
CHHA
CHHB
CJKA
CJKB
CNCD
CPLA
CPSA



+ With this kit you will also need . . .

AST4519 + AST3054-10
TDC Positioning Tool and DTI Gauge



AST4519 + AST3054-10

AST4741
Front End Support Guide Set



AST4741

AST4990
Coil Pack Removal Tool Set



AST4990



VAG Direct Ignition Coil Remover

AST4990

Models:

Audi **Seat**
Skoda **Volkswagen**

Comprehensive Kit, with inter-changeable adaptors covering applications on a wide range of VAG engines.

Ignition Coil Removal 1.2 to 6.0 engines

- For Direct Ignition (final output stage) - Coil on Plug applications
- 4x Inter-changeable heads covering huge range of VAG engines in one kit.
- Using right tool **AVOIDS DAMAGE** to plastic coil head
- Kit includes special **LOCKING MECHANISM DEPRESSOR** Tool



Timing Tools

Petrol 2.6 / 2.8 V6 (Belt)

AST4454

TOOL COMBINATION

Models:

Audi
80 (91-96)
A4 (94-99)
A6 (94-97)
A8 (94-00)

Engines:

2.6 V6
ABC
2.8 V6
AAH

+ With this Set you will also need ...

AST4741
Front End Support Guide Set

AST4741



AST4848
Camshaft Sprocket Remover

AST4848



Petrol 2.4 / 2.7T / 2.8 V6 30v. (Belt)

AST4455

Models:

Audi
A4 (94-08)
RS4 (00-02)
S4 (97-01)
A6 (95-05)
Allroad (00-05)
A8 (96-02)

Skoda
Superb (02-08)

V W
Passat (96-05)

Engines:

2.4 V6 30v.	2.7T V6 30v.	2.8 V6 30v.
AGA APS	AGB AZR	ACK AOD
AJG APZ	AJK BES	AGE ATX
ALF ARJ	ASJ	ALG BBG
ALW ARN	ARE	AMX
AML ASM	AZA	APR
AMM BDV	AZB	
APC		

+ With this Set you will also need ...

AST4741
Front End Support Guide Set

AST4741



AST4848
Camshaft Sprocket Remover

AST4848





Petrol 3.0 V6 30v. (Belt)

AST4940

Models:

Audi
A4 (01-08)
Cabrio (03-09)
A6 (01-08)
A8 (03-09)

Engines:

ASN
AVK
BBJ



With this Kit you will also need ...

AST4741
Front End Support Guide Set



AST4741

Petrol 3.7 / 4.2 V8 (Belt)

AST4827

Models:

Audi	VW
A6 Quattro (99-05)	Touareg (03-07)
S6 (00-04)	Phaeton (03-04)
A8 (99-09)	
S8 (99-03)	
RS6 (03-05)	

Engines:

3.7 V8	4.2 V8			
AKC	ANK	ARU	AUW	BGH
AQG	AQF	ASG	AXQ	BHX
BFL	AQH	AWN	BCY	BRV
	AQJ	AVN	BFM	
	ARS	AVP		



With this Set you will also need ...

AST4741
Front End Support Guide Set



AST4848
Camshaft Sprocket Remover



AST4741

AST4848

Camshaft Sprocket Remover

AST4848

Timing belt replacement procedure on VAG V6/V8 engines, requires the Camshaft sprockets to be released from end of Camshaft and "free to turn".

Special Tool AST4848 is required to remove Camshaft Sprockets.





Vag Diesel pompe Düse 1.2 / 1.4 / 1.9 / 2.0 Di/TDi pD (Belt) 1.2 / 1.6 / 2.0 TDi common rail (Belt)

AST4840

AUDI:

A1	A2	A3
A4	A5	A6
Q3	Q5	TT

SEAT:

Alhambra	Arosa	Altea/XL
Cordoba	Ibiza	Leon
Toledo		

SKODA

Fabia	Octavia	Rapid
Roomster	Superb	YETI

VOLKSWAGEN:

Amarok	Beetle	Bora
Caddy	CC	Eos
Fox	Golf/Plus	Jetta
Lupo	Passat	Polo
Scirocco	Sharan	Tiguan
Touran	Transporter	

Also fitted in **FORD Galaxy (99-06)**

Engine Codes

1.2TDI PD

ANY, AYZ

1.4TDI PD

AMF, ATL, BAY, BHC, BMS, BNM, BNV, BWB

1.9TDI PD

AJM, AMG, ANU, ARL, ASZ, ATD, ATJ, AUJ, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, BEW, BJB, BKC, BKE, BLS, BLT, BMT, BPX, BPZ, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSW, BTB, BUK, BVK, BXE, BXF, BXJ

2.0TDI PD

AZV, BDJ, BDK, BGW, BHW, BKD, BKP, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRC, BRD, BRE, BRF, BRT, BSS, BUY, BUZ, BVA, BVE, BVF, BVG, BVH, BWV

2.0Di PD

BST, BDJ, BDK

1.2TDI CR

CFWA

1.6TDI CR

CAYA, CAYB, CAYC, CAYD, CAYE, CLNA

2.0TDI CR

CAAA, CAAB, CAAC, CAAE, CAGA, CAGB, CAGC, CAHB, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CBEA, CCHA, CCHB, CDBA, CDCA, CEGA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFGC, CFGD, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CGLA, CGLB, CGLC, CGLD, CJAA, CJCA, CJCB, CLCA, CLCB, CLJA, CLLA, CLLB, CMEA, CMFA, CMGA, CMGB





VOLKSWAGEN GROUP 1.2 / 1.6 / 2.0TDi Common Rail Diesel Engine Camshaft Installation Kit (Belt Driven)

AST5160

Covers engine timing and belt change applications on the latest VAG 1.0 petrol engines

Models:

Audi

A1
A3
A4
A5
A6
TT
Q3
Q5

Seat

Ibiza
Leon
Altea/XL
Toledo
Exeo
Alhambra

Skoda

Fabia II
Yeti
Roomster
Rapid
Octavia
Superb II

Volkswagen

Polo
Golf V, VI, VII
Golf +
Beetle
Scirocco
Eos
Jetta
Passat/CC
Touran
Sharan
Tiguan
Amarok
Caddy
Transporter
Crafter

Engines:

1.2

CFWA

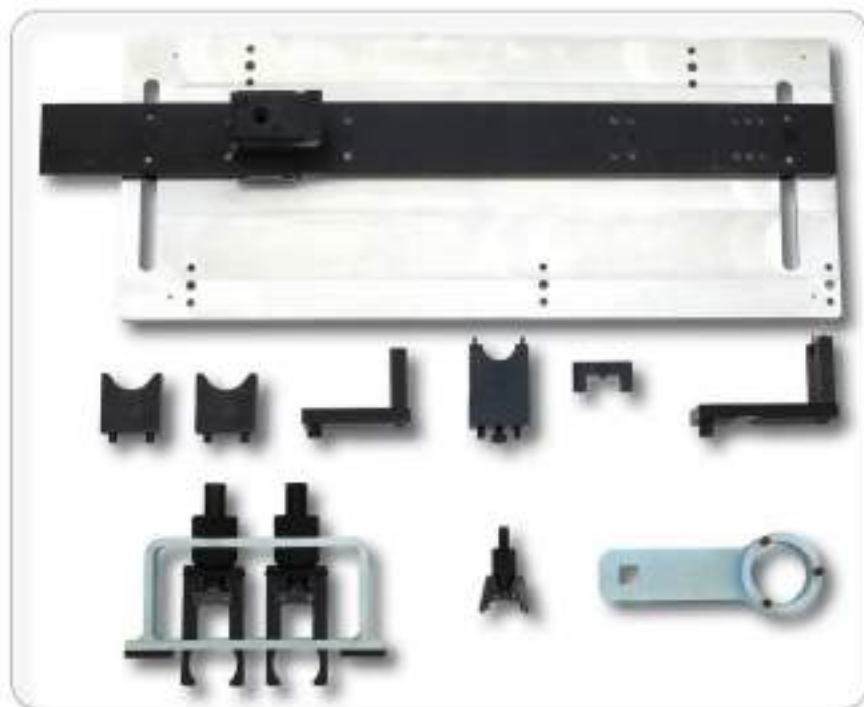
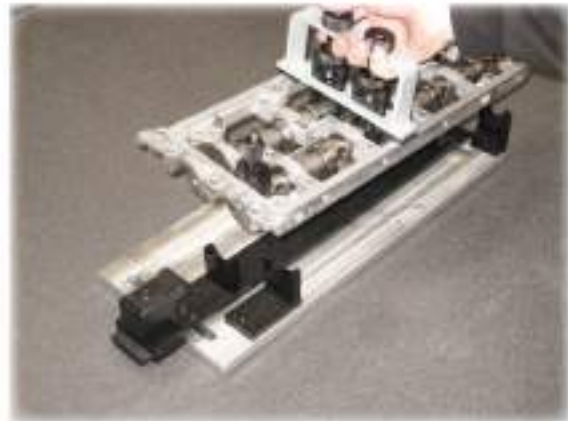
1.6

CAYA CAYD
CAYB CAYE
CAYC CLNA

Engines:

2.0

CAAA	CBBA	CFFB	CGLA	CLLA
CAAB	CBBB	CFFD	CGLB	CLLB
CAAC	CBDA	CFFE	CGLC	CMEA
CAAD	CBDB	CFGB	CGLD	CMFA
CAAE	CBDC	CFGC	CGLE	CMFB
CAGA	CBEA	CFGD	CJAA	CMGA
CAGB	CCHB	CFHA	CJCA	CMGB
CAGC	CCHB	CFHB	CJCB	CKTB
CAHA	CDBA	CFHC	CJCC	CKTC
CAHB	CDCA	CFHD	CJCD	CKUB
CBAA	CEGA	CFHE	CLCA	CKUC
CBAB	CFCB	CFHF	CLCB	
CBAC	CFFA	CFJA	CLJA	





VOLKSWAGEN GROUP 2.7 / 3.0 TDi & 4.2 TDi Common Rail Camshaft Installation Tool Adapter Set

AST5165

AST5165 extends the application coverage of AST5160 to include VAG 2.7/3.0TDi (V6) & 4.2TDi (V8) Common Rail Diesel Engines.

Models:

Audi

A4
A5
A6
A8
Q5
Q7

Models:

Volkswagen

Phaeton
Touareg

Engines:

2.7

BPP CANB
BSG CANC
BSP CAND
CAMA CGKA
CAMB CGKB
CANA

3.0

ASB	CAPA	CCMA
BKN	CARA	CCWA
BKS	CARB	CCWB
BMK	CASA	CDYA
BMZ	CASB	CDYB
BNG	CASC	CDYC
BUG	CASD	CEXA
BUN	CATA	CYDA

4.2

BMC CCFC
BTR CDSB
BVN CKDA
CCFA



With AST5160 and AST5165 the following associated tools can be used . . .

AST4840 Diesel Engine Setting/Locking Kit

For 1.2/1.6/2.0TDi Common Rail Diesel Engines to 2013



AST4840

AST5070 Diesel Engine V6/V8 Setting/Locking Kit and H.P. Pump R+I Kit

For 2.7/3.0 V6 & 4.0/4.2 V8 Tdi Diesel engines



AST5070

AST4844 Camshaft Sprocket Holding Tool



AST4844

AST4741 Front End Support Guide Set



AST4741



Diesel 1.7 & 1.9 D/DT/SDi/TDi (Belt)

AST4740

Models:

Audi

80 (91-96)
A3 (96-03)
A4 (95-01)
A6 (94-02)

Seat

Arosa (98-05)
Ibiza/Cordoba (93-06)
Leon (99-05)
Toledo (94-05)
Alhambra (96-00)
Inca (96-04)

Skoda

Fabia (99-06)
Felicia (95-01)
Octavia (96-06)

VW

Lupo (98-05)
Polo/Classic (95-06)
Golf/Bora (94-05)
Vento (93-98)
Beetle (98-04)
Passat (96-00)
Sharan (95-00)
Caddy (96-04)
Transporter (90-03)

Engines:

1.7SDi

AHB, AHG, AKU, AKW

1.9D/Turbo

1X, 1Y, AAZ, ABL, AEF

1.9SDi

AEF, AEY, AGD, AGP
AQM, ASX, ASY, AYO

1.9TDi

1Z, AFF, AFN, AGR,
AHF, AHH, AHU, ALE,
ALH, ASV, AVG



Kit AST4740 also covers specific VAG Petrol engine applications 1.6 to 2.0 – see VAG Petrol engine section



With this Kit you will also need ...

AST4741 Front End Support Guide Set

AST4741



AST4844 Camshaft Sprocket Holding Tool with interchangeable pins

AST4844



Diesel 2.5TDi V6 (Belt)

AST4450

Models:

Audi

A4 (97-08)
A6 (97-05)
Allroad (00-05)
A8 (97-02)

Skoda

Superb (02-08)

VW

Passat (98-05)

Engines:

AFB AYM BDG

AKE BAU BDH

AKN BCZ BFC



With this Kit you will also need ...

AST4394 Camshaft Sprocket Holding Tool

AST4394



AST4848 Camshaft Sprocket Remover

AST4848





Diesel 2.4D / 2.5SDi/TDi (Belt)

AST5038

Models:

VW

Transporter (90-03)
LT (96-06)
Crafter (06-09)

Engines:

2.4D

AAB, AJA

2.5SDi

AGX

2.5TDI

ACV, AHD

AHY, AJT

ANJ, APA

AUF, AXG

AXL, AYC

BBE, BBF

2.5TDI Common Rail

BJJ, BJK

BJL, BJM



Covers Standard
Injection + Common Rail
2.5TDI diesels



With this Set you will also need . . .

AST4398G Injection Pump Timing Tool Kit

The Injection Pump requires timing after timing belt replacement on all 2.5TDI engines (excluding Common Rail variants).

AST4398G

Diesel Pompe Duse (Unit Injection) 2.5TDi PD (Gears)

AST5035

Models:

VW

Touareg (03-09)
Transporter (03-09)

Engines:

AXD, AXE, BAC, BLJ

BLK, BNZ, BPC, BPD, BPE





Diesel 2.7 / 3.0Tdi V6 + 4.0 / 4.2Tdi V8 (Chain)

AST5070

Models:

Audi

A4 (05-10)
A5 (07-10)
A6 (04-10)
A6 Allroad (06-10)
A8 (03-10)
Q5 (08-10)
Q7 (06-10)

VW

Touareg (05-10)
Phaeton (08-10)

Engines:

2.7TDi V6

BPP, BSG, CAMA, CAMB,
CANA, CANB, CANC, CAND,
CGKA, CGKB

3.0TDi V6

ASB, BKN, BKS, BMK, BMZ,
BNG, BUG, BUN, CAPA,
CARA, CARB, CASA, CASB,
CASC, CATA, CCMA, CCWA,
CCWB, CDYA, CDYB, CDYC,
CEXA

4.0TDi V8

ASE

4.2TDi V8

BTR, BVN, CCFA



AST5070 kit also covers
H P Pump
Removal & Installation



With this Kit you will also need . . .

AST4844
Camshaft Sprocket
Holding Tool

AST4844



AST4989
Camshaft Sprocket
Remover

AST4989





Petrol 1.6 - 2.5 Twin Cam (Belt)

AST5087

Models:

Volvo

- C30
- C70
- S40
- S60
- S80
- V40
- V50
- V70
- XC70
- XC90

Engines:

1.6 - 2.5T/CNG/LPG/Bi-Fuel

- | | |
|----------|----------|
| B4164S2 | B5244T3 |
| B4184S10 | B5244T4 |
| B4184S2 | B5244T5 |
| B4184S3 | B5244T7 |
| B4184S9 | B5254T10 |
| B4204S2 | B5254T11 |
| B4204T3 | B5254T2 |
| B4204T5 | B5254T3 |
| B5204T4 | B5254T4 |
| B5204T5 | B5254T5 |
| B5234T3 | B5254T6 |
| B5232T7 | B5354T7 |
| B5234T9 | B5254T8 |
| B5244S | B5254T9 |
| B5244S2 | B6284T2 |
| B5244SG | B6294S2 |
| B5244SG2 | B6294T |
| B5244T | |

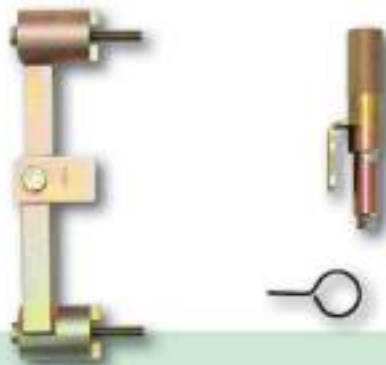


Also for FORD models.

Included within the kit are the tools used for setting / timing during engine re-assembly after overhaul procedures.

AST4387A Setting & Locking Kit

To be used during engine re-assembly after overhaul procedures.



AST4387A

AST5039A Crankshaft Pulley Holding Tool

To be used for belt replacement only.



Can also be used on Volvo Diesel engine applications

AST5039A



Timing Tools

Crankshaft Pulley Holding Tool

AST5039A

For Timing Belt Replacement applications on the following Diesel engines:



Models:

Volvo

C30	V50
C70	V70
S40	XC60
S60	XC70
S80	XC90
V40	

Engines:

2.0

D5204T	D5204T6
D5204T2	D5204T7
D5204T3	D5244T10
D5204T4	D5244T11
D5204T5	D5244T15

2.4

D5244T	D5244T15	D5244T2	D5244T7
D5244T10	D5244T16	D5244T3	D5244T8
D5244T11	D5244T17	D5244T4	D5244T9
D5244T13	D5244T18	D5244T5	
D5244T14	D5244T19	D5244T6	

Petrol 1.6 / 1.8 / 2.0 16v. Twin Cam (Belt/Chain)

AST4404C

Models:

S40/V50 (04-09)
C30 (06-09)

Also for FORD models

Engines:

1.6 16v

B4164S3 (Belt)

1.8 16v

B4184S11 (Chain)

2.0 16v

B4204S3 (Chain)



With this Set you will also need . . .

AST4736 Crankshaft Pulley Holding Tool
for 1.8 16v B4184S11 and 2.0 16v B4204S3



AST4736

Diesel 1.6D (Belt)

AST4735A

Models:

S40 (04-09)
V50 (04-09)
C30 (06-09)

Engines:

D4164T

Also for FORD and PSA models



Diesel 2.0D (Belt)

AST5015

Models:

C30 (06-09)
S40 (03-09)
V50 (04-09)
C70 (06-09)

Engines:

D4204T
D4204T2

Also for LR Freelander 2 Td4 (2.2D)



Alternator Pulley Remover/Installer Kit ('Freewheel' Pulley) AST4955A

An **UPDATED** version of the popular AST kit for removing and installing the "**FREEWHEEL PULLEYS**" on alternators.

Comprehensive application coverage using all the existing sockets and adaptors from the original kit **PLUS NEW ADAPTORS** required for **DENSO ALTERNATORS** on **Volvo, Ford and Honda** models.

- Bosch,
- Valeo
- Magneti Marelli
- Denso etc.

Applications:

Audi	Renault
BMW	Seat
Citroën	Skoda,
Fiat	Vauxhall/Opel
Porsche	Volkswagen
Mercedes	Volvo
Peugeot	



Diesel Glow Plug Socket Set

AST4773

Comprises 4 Specialised Sockets - 8mm, 10mm, 12mm **PLUS 9mm** all with 3/8" drive.

Sockets have internal rubber sleeve to prevent damage to plug, together with universal joint to improve access onto the glow plug.

Set includes 9mm Socket to cover Alfa Romeo, Fiat, Saab and Vauxhall/Opel glow plugs.



VAG Specialist Socket Set

AST4932

A MUST for all VAG Repair Shops
VAG STEERING & SUSPENSION APPLICATIONS

Specialist Socket Set of **LARGER XZN / (Spline)** sizes for bolts found across the VAG model range in **suspension struts, brake callipers and wheel bearing areas etc.**

- Contains 6 x Sockets (3x75mm and 3x40mm lengths)
- Sizes: M14, M16 & M18 (Spline) - 1/2" Drive
- All **IMPACT QUALITY**
- Supplied in Storage Case





VAG Gearbox – Oil Filler Plug AST4468

Models:

Audi & Volkswagen

M16 XZN (Spline)

Tamperproof x 55mm long



BMW Windscreen Wipers AST4469

Models:

BMW (E39 / E34)

TX80 Tamperproof x 63mm long



VAG Ball Joint AST3276

AST3276

Models:

Transporter

M14XZN x 100mm Socket

for ball joint removal/installation



AIRBAG Fasteners AST4467

AST4467

Models:

BMW

VAG

Mercedes

Vauxhall/Opel

TX30 Tamperproof x 85mm long



VAG Hub Bolt Socket - M18 - 3/4" DRIVE

AST4918

Models:

Audi: A3

Seat: Altea, Leon, Toledo

VW: Golf, Golf Plus, Jetta, Touran, EOS, Passat

- **IMPACT QUALITY**, One Piece, **M18 XZN/Spline** Hub Bolt Socket used to remove and install **HIGH TORQUE** hub bolts on VAG models.

- **3/4" Drive** essential to accommodate torque loadings as high as **200Nm. + 180 degrees.**

- 100mm Long



5-point Tamperproof Socket Set

AST4750

To cover 5-point tamperproof fasteners on **ECU, AC Units, Airflow/Mass Sensors and Injection Pumps.**

Models:

BMW

Rover

Fiat

Toyota

Mercedes

VAG

Peugeot

Vauxhall/Opel

Renault

Set AST4750 Comprises 7 Bit sizes:

TS10, TS15, TS20, TS25, TS27, TS30 & TS40 sizes plus 3/4" drive bit holder.



'BUTTERFLY' Socket Set

AST6006

'Closed Ring' design, ideal for limited access applications such as:

- track rod locking nuts
- hydraulic and A/C fittings
- O² sensors

AST6006 Set comprises: 4 x sockets covering metric & imperial sizes.

17mm – 18mm – (11/16")

19mm – 20mm – (3/4")

21mm – 22mm – (13/16" – 7/8")

23mm – 24mm – (15/16")

1/2" square drive for use with torque wrench or power bar





Cylinder Head Bolt Socket Set (8pc)

AST6005

A Specialised Set of **LONG REACH** sockets covering a wide range of **CYLINDER HEAD BOLT** forms

- M14 XZN Spline x 100mm. (AST3276)
- M12 XZN Spline x 140mm. (AST4429)
- M12 Ribe x 100mm. (AST4340)
- M10 XZN Spline x 140mm. (AST4428)
- M10 VW Ribe Form x 140mm. (AST4426)
- M10 Hexagon x 140mm. (AST4431)
- TX60 x 140mm. (AST4432)
- E12 x 140mm. (AST4433)

All sockets - 1/2" sq. drive



AUDI, BMW, FIAT, FORD, JEEP, LANCIA, MERCEDES, MAZDA, NISSAN, RENAULT, ROVER, SEAT, SKODA, TOYOTA, VAUXHALL/OPEL, VW & VOLVO

Ribe Socket Set - Long & Short Reach (12pc)

AST6007

A Specialised Set of 12 sockets covering a wide range of **RIBE** fastener applications including -
Cylinder Head, Camshaft & Timing Covers, Alternator & Sprocket Bolts

- | | |
|--------------------------|------------------------|
| ● M14 x 100mm. (AST4338) | ● M8 x 90mm. (AST4342) |
| ● M13 x 100mm. (AST4339) | ● M8 x 45mm. (AST4474) |
| ● M12 x 100mm. (AST4340) | ● M7 x 90mm. (AST4343) |
| ● M10 x 100mm. (AST4336) | ● M7 x 45mm. (AST4478) |
| ● M10 x 60mm. (AST4471) | ● M6 x 90mm. (AST4347) |
| ● M9 x 60mm. (AST4472) | ● M6 x 45mm. (AST4477) |

1/2" sq. drive

3/8" sq. drive



ALFA ROMEO, FIAT, LANCIA, VAUXHALL/OPEL & SAAB

INDIVIDUAL HEAD BOLT SOCKETS & APPLICATIONS

AST3276 – Ford, Rover, Jeep (VM engines): M14 XZN (Spline) / 100mm

AST4426 – V W Group – Audi / Volkswagen: M10 Ribe Form / 140mm

AST4427 – Toyota: M9 XZN (Spline) / 120mm

AST4428 – Mercedes vans, V W Group, Ford, Vauxhall/Opel: M10 XZN (Spline) / 140mm

AST4429 – V W Group, Ford, Vauxhall/Opel, Mercedes, Volvo: M12 XZN (Spline) / 140mm

AST4431 – Mercedes, Mazda, Nissan, Renault, Seat, Vauxhall/Opel, Toyota: M10 Hexagon / 140mm

AST4432 – Ford (1.8Di): TX60 / 140mm

AST4433 – BMW (M42/M50). Vauxhall/Opel: E12 / 140mm

All sockets - 1/2" sq. drive





XZN Spline IMPACT Socket Set

AST6080

A specialised set comprises 12 x spline IMPACT Sockets covering a wide range of XZN spline fastener sizes – M6 to M18

- M18 X 45mm (AST6081)
- M16 X 45mm (AST6082)
- M14 X 45mm (AST6083)
- M12 X 45mm (AST6084)
- M10 X 45mm (AST6086)
- M18 X 75mm (AST6091)
- M16 X 75mm (AST6092)
- M14 X 75mm (AST6093)
- M12 X 75mm (AST6094)
- M10 X 75mm (AST6096)
- M8 X 52mm (AST6097)
- M6 X 52mm (AST6098)

Specification:

Socket sizes M18 to M10 are each supplied in two lengths – 75mm and 45mm, all with 1/2" square drives. Sizes M8 and M6 are 52mm long with 3/8" drives. **ALL SOCKETS ARE IMPACT QUALITY.** Supplied in fitted storage/carry case.



XZN Spline IMPACT Socket UPDATE Set

AST6085

A Specialised Set comprises 6 x Spline IMPACT Sockets covering a range of XZN spline fastener sizes – M6 to M12

AST6085 UPDATE set utilises the same case and insert as **AST6080** kit and therefore customers who already have **AST4932** set can add it to the **AST6085** set and **UPGRADE** to the same size range coverage as the **AST6080** Socket Set.

AST4932 Contains 6 x Sockets
(3 x 75mm and 3 x 40mm lengths)
Sizes: M14, M16, M18



Oil Drain Plug Thread Repair Kit

AST6100

Kit provides a range of taps and replacement drain plugs to replace the drain plug when a stripped thread is encountered in the sump pan.

Avoids having to replace the complete sump just because the drain plug thread has stripped during the oil change.

Using the appropriate size special tap provided re-thread the hole.

Fit the corresponding oversize drain plug and washer - supplied in the kit.

Kits includes Special Taps and Replacement Sump Plugs / Washers for the following sizes

- M13 X 1.5** Oil Drain Plug Repair Kit - for use on M12 Threads (AST6101)
- M15 X 1.5** Oil Drain Plug Repair Kit - for use on M14 Threads (AST6102)
- M17 X 1.5** Oil Drain Plug Repair Kit - for use on M16 Threads (AST6103)
- M20 X 1.5** Oil Drain Plug Repair Kit - for use on M18 Threads (AST6104)

REPLACEMENT DRAIN PLUGS (Consumable) Replacement Packs of Sump Plugs/ Washers are available and each Set contains 5 x Drain Plugs and 10 x Washers

APPLICATIONS: UNIVERSAL

Kit covers the most popular drain plug threads found on a wide range of cars and light vans



Spark Plugs - Long Reach Sockets (Promotional Pack)

AST6015

Comprises 1 each:

- AST6014 – 14mm A/F Long Reach (250mm) Spark Plug Socket – Bi-Hex
- AST6016 – 16mm A/F Long Reach (250mm) Spark Plug Socket – Bi-Hex

Long Reach, Thin Wall, Spark Plug Sockets - for Deep-Seated plugs found on many Twin Cam 16v. and V6 engines.

14mm A/F BI-HEX Spark Plugs are found on – BMW Mini, Citroën, Peugeot, Renault and Mercedes engines

16mm A/F BI-HEX Spark Plugs are on many popular engines including BMW, Vauxhall-Opel, Jaguar and Japanese marques.

INDIVIDUAL LONG REACH SOCKETS

AST6014

14mm A/F BI-HEX - 250mm long – 3/8" Sq. Drive

AST6016

16mm A/F BI-HEX - 250mm long – 3/8" Sq. Drive



14mm a/F 'Thin Walled' spark plug socket - Bi hex

AST6017

AST6017 is required for spark plug removal/installation on direct injection BMW petrol engines with codes **N43, N53 & N54**. These engines require a very 'thin walled' socket in order to reach the spark plug and locate correctly onto the **14mm Bi-Hex**. Standard spark plug sockets foul the walls of the cylinder head and do not reach the spark plug.

Applications:

BMW Direct Injection petrol engines with codes **N43, N53 & N54**

This socket can also be used on engines with similar access issues such as BMW Mini, Citroën, Peugeot, Renault and Mercedes.



Wheel Hub Nut IMPACT Socket Set

AST6075

Specialised Thin Walled 12 point IMPACT Sockets to suit hex. and latest Bi-Hex hub nuts

Sizes **30mm, 32mm and 36mm** - 1/2" square drive

Application coverage –

30mm. – BMW, Citroen, Ford, Mercedes, Peugeot, Renault, Toyota, Vauxhall-Opel and Volkswagen

32mm. – Fiat, Ford, Mercedes, Nissan, Subaru and Vauxhall-Opel

36mm. – BMW, Ford, Nissan, Porsche, Seat and Volkswagen

Supplied in fitted Storage Case





Fiat & Ford Hub Nut Socket 36mm - 1/2" Sq Drive

AST6099

Heavy-duty single HEX, thin walled 36mm impact socket for removing the front hub nut on Fiat 500 and Ford KA models.



Oil Filter Housing Removal/Installation Tool

AST5129

AST5129 Oil Filter Housing Removal/Installation Tool is for use on the Peugeot/Citroën 2.0 and 2.2 HDI Engines.

The oil filter housing is removed using the 27mm bi-hex spanner. **AST5129** is required on the **DW10C** and **DW12C** engines where it is not possible to locate onto the oil filter housing from above due to the inlet system restricting access.

The spanner has been designed in order to avoid the inlet system and wiring loom next to the oil filter housing. The 1/2" square drive allows a torque wrench to be used when refitting the PLASTIC oil filter housing. The correct torque is marked on the housing (**25Nm**) and should be followed.

Applications:

2.0 and **2.2HDI/TDCI**, **DW10C** and **DW12C** engines fitted in:

CITROEN - C4, Picasso, Grand Picasso, C5



FORD - C-Max, Focus, Galaxy, Kuga, Mondeo, S-Max

PEUGEOT - 308, 3008, 508, 5008, 407, RCZ

3 Piece Low Profile Socket Set - Oil Filter Housing Removal/Installation

as T6105

AST6105 3 Piece Low Profile Socket Set is suitable for engines with plastic oil filter housings and replaceable-cartridge oil filters. The housing can be removed using one the sockets either **27, 32** or **36mm A/F** allowing the cartridge oil filters to be changed. The 1/2" square drive allows a torque wrench to be used when refitting the plastic oil filter housing.

These are found on many modern vehicles including:

Alfa Romeo, Audi, BMW, Citroën, Fiat, Ford, Lancia, Mazda, Mercedes-Benz, Nissan, Opel, Peugeot, Renault, Suzuki, Toyota, Vauxhall and Volkswagen.





'BUTTERFLY' Socket Sets

AST6006/AST6039/AST6110

'Closed Ring' design, ideal for limited access applications such as:

- track rod locking nuts
- hydraulic and A/C fittings
- O² sensors

AST6006 Set comprises: 4 sockets covering metric & imperial sizes.

- 17mm - 18mm - (11/16")
- 19mm - 20mm - (3/4")
- 21mm - 22mm - (13/16"-7/8")
- 23mm - 24mm - (15/16")

AST6039 Set comprises: 4 sockets:

- 11mm - (7/16")
- 12mm - 13mm - (1/2")
- 14mm - (9/16")
- 16mm - (5/8")

AST6110 Set comprises: 12 sockets.

- 10mm - (3/8")
- 11mm - (7/16")
- 12mm - 13mm - (1/2")
- 14mm - (9/16")
- 16mm - (5/8")
- 17mm - 18mm - (11/16")
- 19mm - 20mm - (3/4")
- 21mm - 22mm - (13/16"-7/8")
- 23mm - 24mm - (15/16")
- 27mm - (1-1/16")
- 30mm - (1-1/8")
- 32mm - (1-1/4")

AST6006 & AST6110 have a 1/2" square drive for use with torque wrench or power bar.

AST6039 has a 3/8" square drive.



AST6110



AST6006



AST6039



Injector Back Leakage Test Kit – Common Rail Diesel Engines **AST6070**

A comprehensive test kit which is designed to connect directly to the diesel injectors of common rail systems in order to identify poor injector performance – in situ

UP TO 6 CYLINDERS ON

- BOSCH
 - DENSO
 - DELPHI
 - SIEMENS
- } Common Rail Systems

AST6070 Kit includes –

- HANGING RACK ASSEMBLY with 6 x Graduated Measurement Bottles
- 6 x Measurement Tubes (For crank only condition)
- Range of 4 Adaptor Sets
- Blank-Off Tubes and Pinch-Off Pliers
- Full Product Instructions
- Compartmented Carry / Storage Case

Injector Performance / Evaluation on up to 6 Cylinders with

- COMPARATIVE TESTING
- VOLUME EVALUATION
- ENGINE RUNNING
- CRANK ONLY CONDITION



Fuel Measurement Hanging Rack Assembly.



Quick Coupler Adaptor System - "No leak" connections.



Fuel Measurement Tubes.

The AST6070 is a comprehensive test kit which connects directly to the diesel injectors of common rail systems in order to provide measurement of the return fuel flow (back leakage) and identify poor injector performance and worn, blocked or inoperative injectors, **WHILST THEY ARE STILL INSTALLED**, and with the engine running.

Injectors whose return fuel quantity has increased substantially can have the following affect on the engine:-

- Poor starting performance
- Engine no start
- Engine cut out
- Reduced power across all ranges



**Specialised Hose Clip Plier Set
- for Coolant Hose Clamps**

AST6060A

A set of specialised Hose Clip Pliers, presented in a compartmented storage foam insert.

AST6060A Set is particularly useful when dealing with **COOLANT HOSE CLAMPS** – constant pressure clamps (sometimes referred to as "Flat Band Clips"). Widely fitted on coolant and heater hoses in the engine compartment, these hose clips are often in areas difficult to access, why both Remote access and Special Angled Pliers are included the Set together with the required Hose Release Hook.

AST6060A Set comprises:-

Remote Action, Flexible, Hose Clip Tool (**AST6061**) – with "long reach" **600mm** Cable for difficult to reach areas.

"Large Flat Band" Clip Pliers with ratchet (**AST6062**) – Angled at to improve access.

2 Hose Release Hooks (**AST6064**) – to free hoses from corroded fittings.



AST6061
**Remote Action,
Flexible Hose Clip
Tool 600mm Reach**

AST6062
**Large 'Flat Band'
Pliers ANGLED for
access**

AST6064
Hose release hooks



Exhaust Clamp Pliers

AST6055

Models:
Citroën
Peugeot
Renault

Heavy-Duty Pliers suitable for expanding exhaust clamps on collared joints.

- Locking mechanism spreads and holds clamp in expanded condition.





Relay Removal / Installer Pliers

AST6037/AST6038

OPEL - FORD - MAZDA - CHRYSLER - NISSAN - VAG GROUP Cars

MERCEDES - MAN - IVECO Commercial Vehicles

- For safe installing and removing of relays, even small ones
- Spring loaded handles made of solid nylon material
- Robust steel jaws
- **Straight version**- 140mm for easy and straight removal / installation
- **Angled version 60°**- 197mm designed to remove and install relays which are usually located in confined, hard-to-reach areas



AST6038
Angled Pliers

AST6037
Straight Pliers

Universal Brake Caliper Piston Wind-Back Tool

AST6036

- Innovative dual purpose tool for readjusting (pushing or turning) brake pistons on floating caliper systems with or without locking device for handbrakes
- Fast and simple one-handed use
- Lightweight and durable materials enable the tool to work on most common caliper designs
- Suitable for use on either left or right handed wind back calipers
- Versatile: includes 6 common adaptors (incl. the popular VAG 3-pin design) and accepts all generic 2-pin magnetic adaptors





Hose Clip Pliers Set - Fuel Lines / Small Hoses

AST6065A

An essential set covering the variation of hose clips found on fuel lines and small hoses in the engine compartment of modern cars and vans.

- Volkswagen Group - "Low Profile" and "Small clips"
- Small "Flat Band" (Constant Pressure) clips
- "Clic Clic" Reusable clips

Set includes
VAG "Low Profile
Clip" Pliers



All pliers are available individually

AST6065 set comprises

AST6066 VAG "Low Profile" Clip Pliers



AST6067 Small "Flat Band" Pliers



'Clic-Clic' Pliers - Heavy Duty

AST6069

'CLIC-CLIC' PLIERS For removal and installation of special 'Clic' clamps on fuel lines.

Models:

Audi
Citroën
Mercedes
Vauxhall/Opel
Peugeot
Renault
VAG





Exhaust Clamp Remover & Installer

AST3296

Models:
Volkswagen
Jetta
Golf
Passat

To safely remove and install heavy duty spring type exhaust clamps



'QUICK TEST' Brake Fluid Tester

AST6049

Provides 'Quick Test' of moisture content of brake fluid via electrical resistance.

- Simple **RED / AMBER / GREEN** LED display indicates condition of fluid.
- Low Battery indication.
- Battery provided.



Fuel Filter Cap Wrenches

AST6051 / AST6052

Modern diesel fuel systems now use Replacement Cartridges within Fuel Filters. Increasing requirement to **remove and install the CAP of FUEL FILTER Housing** in order to access and replace filters.

- Caps can be tight and difficult to release – easy to damage without the **CORRECT TOOL**.
- Frequent Use - Regular servicing requirement to replace fuel filters.



AST6051
108mm diameter / 46 Grooves
3/8" Sq. Drive
CITROËN – PEUGEOT HDi diesels



AST6052
109mm diameter / 8 Grooves
3/8" Sq. Drive
CITROËN – PEUGEOT – RENAULT diesels

Fuel Pump Removers - IN TANK

AST4383A / AST4384A / AST4385A

High Quality Removers to release and tighten fuel pump/sender mounting collars on 'In Tank' fuel pumps

Each Remover is adjustable across a size range

AST4383A 75 – 160mm. (3-leg)

AST4384A 80- 120mm. (2-leg)

AST4385A 110- 170mm. (2-leg)



“Multi-Marque” Diesel Engine Compression Test Kits

A modular range of Test Kits providing application coverage at varying levels.

All Kits include AST4670 Quality Compression Tester and a selection of Adaptors. Applications include **HDi, TDCi, dCi, CDTi** and **Pumpe Düse** diesel systems ensuring coverage of wide range of modern diesels encountered in the service workshop today.

MASTER KIT

AST4690

This MASTER Kit provides the most comprehensive coverage available for car, van, truck, agricultural and marine diesel engine applications.

- Quality Compression Tester comprising:
 - Gauge 0-70 bar / 0-1000 psi
 - Pressure Relief Valve for re-test
 - Quick Coupler System for Adaptors
 - 90° Elbow for ease of access
- Range of Dummy Glow Plug Adaptors - M8, M10, M12
- Range of Dummy Injector Adaptors - M20, M22, M24
- Includes AST4687 Dummy Clamp-Type Injector Set



“Multi-Marque” Diesel Engine Compression Test Kits

Popular Kit

AST4685

- A Start-Up Kit covering popular applications.



Deluxe Kit

AST4688

- Includes larger range of Adaptors covering more marques.





Clamp-Type Injector Adaptor Set

AST4687



Adaptor Set to make Dummy Injector Adaptors for Clamp-Type / Slide-in injectors – cars, vans and trucks.

- Assemble parts to match the configuration of the Injector.

Diesel Engine Compression Test Kit (Glow Plug Entry)

AST5180

AST5180 covers a wide range of the most popular applications:

Manufacturer:

Alfa Romeo, Fiat, Lancia
Audi, Seat, Skoda, VW (VAG)
BMW
Citroen, Peugeot (PSA)
Chrysler, Jeep
Ford
Honda
Land Rover
Vauxhall/Opel
Renault
Saab
Suzuki
Volvo

Engines:

1.3, 1.9, 2.4 (incl. JTD)
1.2, 1.4, 1.6, 1.9, 2.0, 2.5, 2.8, 5.0 (incl. Pumpa Duse & CR)
2.0 (M47 / N47D20)
1.4, 1.5, 1.6, 1.9, 2.0, 2.2 (incl. Hdi)
2.5, 3.1
1.3, 1.4, 1.6, 1.9, 2.5 (incl. TDCi)
2.0
2.0
1.3, 1.9, 2.2, 2.5 (incl. CDTi)
1.5, 1.9, 2.2, 2.5 (incl. dCi)
1.9 TID
1.3 (incl. DDiS)
1.9, 2.5

*Representative sample of popular applications - additional applications covered by this range may not be listed



Quality Compression Tester comprising:

- Gauge 0-70 bar / 0-1000 psi
- Pressure Relief Valve for re-test
- Quick Coupler System for adaptors
- 90° Elbow for ease of access
- Range of Dummy Glow Plug Adaptors - M8, M9, M10 x1,0

Additional Dummy Glow Plug Adaptors are available to order separately.

Oil Pressure Test Kit

AST4494A

AST4494A is an updated kit covering engine oil pressure testing on a huge range of cars, van, trucks and now motorcycles.

Comprises:

- Quality Pressure Gauge 0-7 bar / 0-100 psi
- Long Reach Hose - 1 metre with quick coupler system
- 90° Elbow for ease of access
- Range of 9 Adaptors





Dummy Glow Plug Adaptor Update Set

AST4689

AST4689 Dummy Glow Plug Adaptor Update Set contains four **NEW** dummy glow plug adaptors, with **M8, M9** and **M10** threads – these are **AST4686-48, -61, -62** and **-70**.

AST4689 adaptor set is compatible with all **AST Diesel Compression test equipment**.

*AST4686-xx adaptors can be converted to AST4686-xxNV adaptors by removal of the non-return valve. However, non-return valves should only be installed one time and must be tightened to the correct torque value.

Note: A new valve will be required should the user wish to convert any adaptor to Diesel Compression format.



AST4686-61

Applications: 2.7 / 3.0 TDV6

AST4686-62

Applications: 2.0TDi PD

AST4686-70

Applications: 1.9 / 2.4 JTD/CDTi

AST4686-48

Applications: 2.0dCi



AST4686-62 glow plug adaptor is shown in the photograph.

Applications:

PSA	C5, C6, 407, 607	2.7TD V6, 3.0TD V6
LAND ROVER	Discovery III & IV, Range Rover Sport	2.7TD V6, 3.0TD V6
JAGUAR	S-Type, XF, XJ6	2.7TD V6, 3.0TD V6
RENAULT	Laguna, Megane, Scenic/Grand Scenic, Val Satis, Espace/Grand Espace, Traffic, Koleos	2.0dCi
NISSAN	Qashqai, X-Trail, Primastar	2.0dCi
VAUXHALL/OPEL	Vivaro	2.0dCi
ALFA ROMEO	147, 156, Spider, Brera, 159, 166	1.9JTD 16V
FIAT	Bravo, New Croma, Stilo	2.4JTD 16V
VAUXHALL/OPEL	Astra, Signum, Vectra, Zafira	1.9 CDTi 16V
SAAB	9-3, 9-5	1.9 TiD
AUDI	A2, A3, A4, A6	2.0TDi PD
SEAT	Alhambra, Altea, Cordoba, Ibiza, Leon, Toledo	2.0TDi PD
SKODA	Octavia II, Superb VII	2.0TDi PD
VOLKSWAGEN	Beetle, Caddy, Crafter, EOS, Golf, Jetta, Passat, Touran, Sharan, Transporter	2.0TDi PD



With this set you will also need . . .
Diesel Engine Compression Test Kit



AST4690



Petrol / Diesel Combination Cylinder Leakage Kit (including TDC Finder)

AST5007

This new combination kit enables cylinder leakage testing to be carried out across a wide range of Petrol and Diesel engines.

Additional dummy glow plug adaptors are available.

AST5007 Comprises:

- Gauge & Regulator assembly with colour coded gauge scale showing cylinder leakage in %.
- Airline coupler for connection to workshop compressed air supply.
- Connection hose with **M14/18** thread for Petrol (spark plug) applications.
- Connection hose with quick coupler for Diesel (glow plug / injector) applications.
- 5x Dummy glow plug adaptors – **M8, M9, M10** (coarse), **M10**(fine) and **M12** threads.
- 2x Standard spark plug adaptors – **M10** and **M12** thread
- 2x Long reach spark plug adaptors – **M12** and **M14** (For deep sealed spark plugs)
- TDC finder - To aid positioning of piston for test - valves closed on ignition stroke (Petrol / Diesel)



Packaged in a Red plastic case. Instructional CD included.

Cylinder Leakage Testing – An overview

Cylinder Leakage testing provides a more diagnostic approach to determining compression or cylinder/head problem areas that the normal compression test routines.

When performing a cylinder leakage test, air is introduced to the regulator at a constant and pre-set rate. The air loss is then shown on the gauge scale as a percentage of the air that enters the cylinder.

It is introduced to each cylinder in turn and the rate of loss of air from each cylinder is registered as a percentage, higher percentages indicating more serious faults. Additionally the point at which the air escapes provides an indication as to the problem area



With this kit you will also need . . .
Clamp-Type Injector Adaptor Set

AST4687NV

Adaptor Set to make Dummy Injector Adaptors for Clamp-Type/Slide-in Injectors.

Fit the Dummy injector Adaptor and retain in place using either a clamp from the **AST4687NV** Set or the original clamp from the engine.



Select components from the adaptor set and build the Dummy Injector Adaptor to match the injector removed from the engine.

Petrol Engine Compression Test Kits

AST4675 / AST4678

Two Quality Kits covering compression testing on a wide range of petrol engines. Both Kits include Air Input Adaptor as an added feature.

AST4678 POPULAR KIT covers 10, 12, 14 & 18mm spark plug hole connections.

AST4675 DELUXE KIT offers the same application coverage as AST4678 but additionally includes the M14 Long Reach Adaptor (AST4397) for 16v. and V6 engines.

 Both kits additionally feature an Air Input Adaptor to assist in valve seal/spring replacement applications



AST4675
DELUXE KIT

AST4678
POPULAR KIT

Petrol Engine Cylinder Leakage Test Kits

AST4680 / AST4682

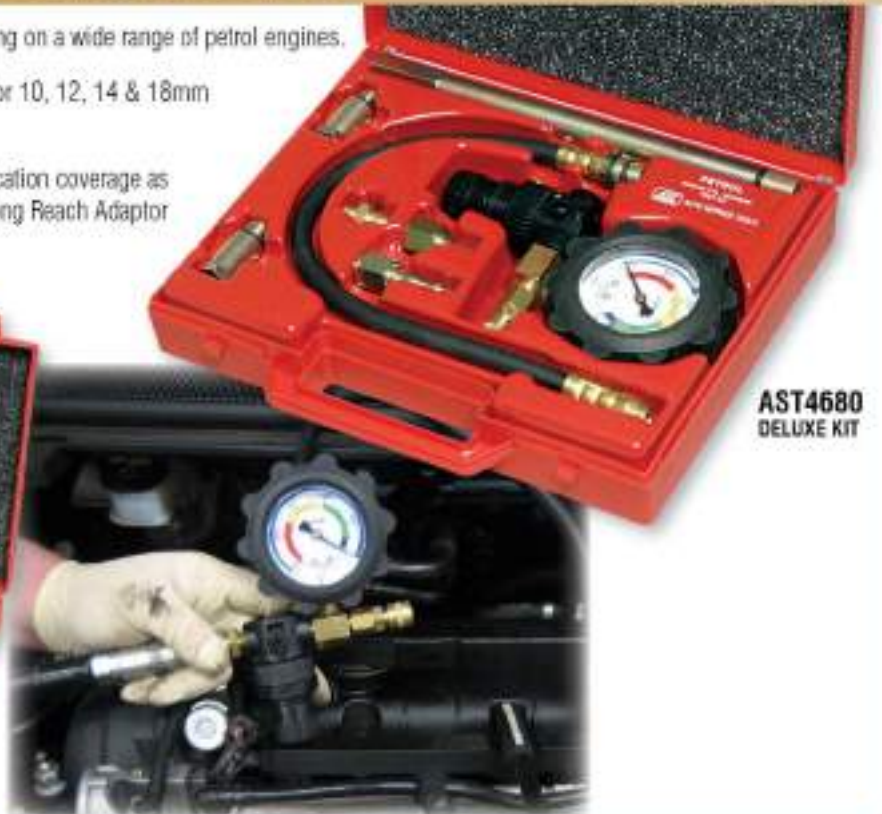
Two Super Kits covering cylinder leakage testing on a wide range of petrol engines.

AST4682 POPULAR KIT includes adaptors for 10, 12, 14 & 18mm spark plug thread connections.

AST4680 DELUXE KIT offers the same application coverage as AST4682 but additionally includes the M14 Long Reach Adaptor (AST4397) for 16v. and V6 engines.



AST4682
POPULAR KIT



AST4680
DELUXE KIT

Petrol Fuel Injection Systems

Test Port Entry

AST4701

This kit forms the basis of the Fuel Injection Test Kit System

Contains:

- Quality 0-7 bar Gauge and interchangeable Hosa/Vent Assembly
- Flexible Test Port Adaptors covering **ALL** schrader test port fittings.
- New Alfa/Fiat Test Port Connector
- Fitted Case / detailed instructions



Single Point & Electronic

AST4702

Used in conjunction with Kit AST4701, to cover Single Point (TBI) and modern EFI systems

Contains:

- Quality 0-2.5 bar Gauge (Tbi)
- Range of 5 In-Line Banjo Adaptors
- Tees for coupler connections **incl. Renault**
- Cone Seat Threaded Adaptors M14-M16
- Tee, Valve & Hose Assembly
- Fitted Case / detailed instructions



Test Kits AST4701 and AST4702 can be purchased together under Ref **AST4706**

Diesel Injector - Removal

AST3246

SLIDE-IN/CLAMP TYPE Injectors

Short Reach Slide Hammer and range of Adaptors - attaches to Injectors to apply "Impact" removal.



Adaptors 22mm, 21mm, 14mm, 12mm & 8mm

Popular Workshop Set

AST4700

Test Kits **AST4701** and **AST4702** housed in lockable Steel Cabinet providing secure workshop storage.



Petrol Engine Long Reach Compression Test Adaptor Set

AST4988

AST4988 Long Reach Adaptor Set Comprises 1 each:

AST4397 - For M14 Threads (e.g. Ford Duratec 16v.)

AST4862 - For M12 Threads (e.g. Mini, PSA, Renault 16v.)

- For access to deep seated spark plug threads on 16v./V6 engines.
- Can be used with **ALL** Standard Petrol Compression Testers
- Rigid construction to avoid cross threading.



Adaptors are available individually.



Ford Rear Axle Bush – Fiesta / Puma / Ka

AST4725

Models:
Fiesta (96-02)
Puma (97-02)
Ka (96-08)

- Rugged Frame System is required to remove and install these bushes.
- Designed for **ON CAR** applications - No need to remove axle.
- Plus, Bearing Assisted Force aids removal of stubborn bushes.
- Additional Adaptors available to extend applications - see AST4724



+ This Kit can also be used for ...
Ford Focus Rear Trailing Arm
bushes using AST4724 Adaptor set



AST4724

Ford Rear Trailing Arm Bush - Focus

AST4722

Models:
Focus (98-05)

- Rugged Frame System is required to remove and install these bushes.
- Designed for **ON CAR** applications - No need to remove axle.
- Additional Adaptors available to extend applications - see AST4723

+ This Kit can also be used for ...

Ford Fiesta, Puma, & Ka
Rear Axle bushes using
AST4723 Adaptor set



AST4723

FORD & VOLVO Trailing Arm Bush Removal / Installation Kit

AST5114

- Designed for ON CAR applications
- Provides a quick and easy method of removal and installation of trailing arm bush on Ford and Volvo models.
- Accommodates both long and short bushes on some Volvo applications.

Models:
Ford
Galaxy
Mondeo
S-Max

Volvo
S60 II
V60
V70 III
XC60
XC70/V70XC



VAG Front Control Arm - Rear Bush

AST5046

Models:

Seat: Ibiza (02-09)
Cordoba (03-09)

Skoda: Fabia I/II (00-08)
Roomster (06-08)

VW: Polo (02-10)
Fox (04-10)



For the **REAR** Bush on the **FRONT** Control Arm.
This New Bush Remover & Installer Kit is designed for **ON CAR** application and therefore minimises the dismantling of components. It utilises the same Force Screw/Force Nut combination as some of our other Bush Tools.
The **FORCE NUT IS "BEARING ASSISTED"** to ease withdrawal and installation of the bush, making the operation easier and smoother.



Citroën Ball Joint Socket AST3278

Models: Peugeot 305 / 405 / 605
Citroën BX / Xantia / XM



- Special castellated socket with 4 drive lugs – 51mm dia.
- Designed to remove & install screw type lower ball joints in PSA models