



**AUTOMOTIVE
SPECIALISED
SERVICE TOOLS**



*High
Performance
Tools*



Quick Finder

CHEVROLET

Petrol tensioner Adjuster - water pump (belt) **AST-V501A**

MODELS : Kalos(04-07), Lacetti (04-07), Nubira (97-07), Tacuma / Rezzo (04-07), Nissia (95-97), Lanos (97-03)

ENGINES : 1.4, A14SM5, F14G3, 1.4 16V, F14D3, 1.5, A15DM, A15DM5, A15MF, 1.6 16V, A16DM, A16DM5, F16D3

CHRYSLER - JEEP

Petrol 1.8 / 2.0 / 2.4 Crankshaft Pulley Removal and Installation (Belt) **AST-4745**

MODELS : ECB, ECC, ED2, Neon (95-04), Stratus (94-01), PT Cruiser (00-09), Voyager (94-09), Grand Voyager (94-09)

ENGINES : 1.8, 2.0, 2.4

WITH THIS KIT YOU WILL ALSO NEED ... **AST-4593 Pin Set - Automatic Belt Tensioners**

Diesel 2.0 Turbo (Belt) **AST-4390**

MODELS : Wrangler (88-93), Cherokee (84-93)

ENGINES : 200

Diesel 2.5CRD (Belt) **AST-4945**

MODELS : Voyager (01-09), Grand Voyager (01-09)

ENGINES : 2.5 CRD, R2516C

Includes Balancer a Shaft Locking Pins

1. Vehicle Maker
(in alphabetical order)

2. Engine fuel
Petrol (green)
Diesel (yellow)

3. Main heading
Engine Size or Group

4. Additional Tools...
Which are required to effectively cover
this engine timing application

5. Engine code

6. Models
(Year covered by tools)

7. Product Reference

Technical Helpline

Call Us

SAM tools and Product Support Staff have many years of practical experience within the Automotive Industry and are directly involved in the development and testing of the products

If you need any help in identifying the SAM product you need or advice on a particular application relating to our tools...

Please contact us on the HELPLINE or by fax or email.

HELPLINE: (+33) 4 77 92 13 35

Fax: (+33) 4 77 92 13 49 email: export@sam-outillage.com

"Continuous adaptation"

Automotive repairing sector impose us / you a continuous adaptation :

- Aging car park creates demand,
- Workshops renovation goes more and more quickly,
- The heterogeneity of the car park favours equipment needs and solutions.



In front of this change, SAM has strongly reinforced its services so as to offer you the best solutions, in terms of choice and quality.

Our teams do everything possible to allow you to benefit of 130 specific timings tools where COMFORT, SECURITY, EFFICIENCY are written with capital letters.

**"SAM , the tools of performance
at your profession's service."**



Summary

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Multi - Lock - Twin Cams / Quad Cams

With this tools
you will also
need...

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 allow fitting on flanged sprockets.
- Ratchet Locking Handles - lever action ensures firm fix.

AST-4500



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4501 Multi - Lock - Twin Cams / Quad Cams - Extension Bridge Piece

Extension Bridge Piece AST-4501 extends distance between locking arms to provide even greater application coverage.



Uni-Lock Sprocket Locking Device

Universal sprocket locking device for single cam and 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.

AST-4650



Multi - Lock / Uni - Lock Combination Set

A super Universal Timing set comprising :

- AST-4500 : Multi-lock II for twin cam and quad cam engines
- AST-4501 : Extension Bridge Piece for Multi-Lock II
- AST-4650 : Uni-lock for single cam, two cam V and diesel pump sprockets.

AST-4695



Camshaft Sprocket Holding Tool

Many engine timing procedures require the camshaft sprocket(s) to be free to turn on the camshafts 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.

AST-4394 AST-4844



Pin Set - Automatic Tensioners

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 strenght
- Pin sizes 0.80 to 1.90mm.

AST-4593





Petrol ALFA - FIAT Combination Kit (Belt)

AST-4970

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.

MODELS :	Spider	ENGINES :		
145	GTV	162.01,	323.01,	671.06,
146	GT	321.02,	323.10,	672.04,
147	1.4	321.03,	335.03,	676.01,
155	1.6	321.04,	341.03,	932A2.000,
156	2.0 Twin Spark	322.01,	363.01,	937A1.000
166	2.0JTS	322.05 (156),	372.03,	



WITH THIS KIT YOU WILL ALSO NEED ...
AST-3054-10



Petrol AL - FI System Camshaft Setting Plate Kit

AST-4900

MODELS :	ENGINES :	
ALFA ROMEO:	ALFA ROMEO:	FIAT:
145, 146, 147,	162.10, 321.02, 321.03,	183A1.00/182A2.000
155, 156, 166	321.04, 322.05, 322.01,	183A6.000/188A6.000/
Spider : GTV, GT	323.01,	192A4.000/175A3.000/
FIAT:	323.10, 335.03, 341.03,	182A1.000/182B3.000/
Punto, Brava,	363.01, 372.03,	182B7.000/192A2.000
Bravo, Marela,	671.06, 162.01,	
Marela, Weekend,	672.04, 676.01,	
Stilo, Barchetta,	932A2.000,	
Coupe	937A1.000	



Petrol 1.4 to 2.0 16v / 2.0 JTS (Belt)

AST-4910

MODELS :	ENGINES :	
145 (96-01)	166 (98-07)	335.03
146 (96-01)	Spider (98-05)	322.01
147 (01-07)	GTV (98-06)	322.05(156)
155 (95-97)	GT (04-08)	321.02
156 (97-06)		671.06
		321.03
		321.04
		323.01
		323.10
		341.03
		363.01
		672.04
		932A2.000
		937A1.000

Wide application coverage based on AL-Fi universal camshaft setting plate system



WITH THIS KIT YOU WILL ALSO NEED ...
AST-4519 TDC Positioning Tool - All Engines
Requires suitable DTI such as AST3054-10



AST-4528 Flywheel Holding tool **MODELS :** **ENGINES :**
(Crank Pulley removal) 2.0JTS 932A2.000
937A1.000



Petrol AL - FI System Camshaft Setting Plate Kit

AST-4905

AL-Fi camshaft setting plate comprises the AL-Fi universal support blocks and Alfa Romeo Setting plate set to provide camshaft timing setting on Alfa Romeo engines detailed under AST-4910 kit above.

AL-Fi setting plate sets AST-4902 and AST-4903 can be added to cover Fiat camshaft setting applications.





Petrol 2.5 / 3.0 24v V6 (Bell)

For 3.2 V6 see kit AST-4890

MODELS :

156 (97-06)
166 (98-01)
GTV (96-04)

ENGINES :

324.01
324.05
342.01
161.02
161.05 (GTV)
343.01

AST-4590



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4519 TDC Positioning Tool - All Engines
Requires suitable DTI such as AST3054-10



AST-4892 Crank Pulley Holding Tool
Pulley has HIGH TORQUE LOADING



AST-4394 Camshaft Sprocket Holding Tool



Petrol 3.2 24v. V6 (Bell)

MODELS :

147GTA (02-08)
156GTA (02-05)
166 (05-08)
Spider (03-06)
GTV (03-06)
GT (04-08)

ENGINES :

3.2 V6
932A.000
936A.000
For 2.5 and 3.0 V6 see kit AST-4590

AST-4890



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4519 TDC Positioning Tool - All Engines
Requires suitable DTI such as AST3054-10



AST-4892 Crank Pulley Holding Tool
Pulley has HIGH TORQUE LOADING



AST-4394 Camshaft Sprocket Holding Tool



Diesel 1.9 JTD / 2.4 JTD (Bell)

MODELS :

145 (96-01)
146 (96-01)
147 (01-07)
155 (95-97)
156 (97-06)
159 (05-08)
166 (98-07)
GT (04-08)
Brera (05-08)

ENGINES :

1.9 JTD 8v.	1.9 JTD 16v.	2.4 JTD 10v	2.4 JTD 20v
323.02	192A5.000	325.01	841G.00
371.01	192B1.000	342.02	841H.000
182B9.000	937A4.000	362.02	841M.000
937A2.000	937A5.000	839A6.000	939A3.000
939A1.000	939A2.000	841C.000	
939A2.000	939A8.000		
939A7.000			

AST-4850



Coverage
Includes latest
16v. 1.9 JTD
and 20v. 2.4
JTD



Petrol 1.8 to 3.0 Twin Cams (Chain) M42 / M44 / M50 / M52(TU) / M54 / M56

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. (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 3.0 (03-06)
X5. (E53 3.0 (99-07)

ENGINES :

M42 / M44 / M52 NO VANOS

(VVT) :

18 4S1
19 4S1
20 6S 2 (Early)

25 6S 2 (Early)

M50 / M52 Single VANOS (VVT) :

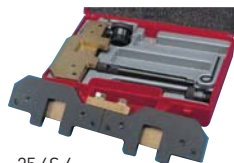
20 6S 2 (Later)
20 6S3
25 6S 2 (Later)
25 6S3

28 6S1.

AST-4425 must be use with AST-4312 Wrench
M52 (TU) / M54 / M56 Twin VANOS (VVT) Variants

20 6S 4
22 6S 1

AST-4425



25 6S 4
25 6S 5
28 6S 2
30 6S 3.

AST-4425 must be used with AST-4895 kit



WITH THIS KIT YOU WILL ALSO NEED ...

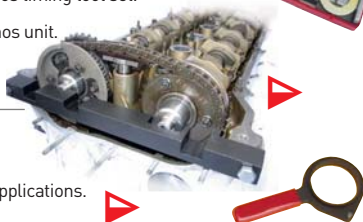
AST-4895 Twin Vanos Timing Tool Set

For engines with twin vanos (VVT) units AST-4895 twin vanos timing tool set.
For BMW M52(TU) / M54 / M56 engines.
Essential for dismantling, assembly and timing of twin vanos unit.
See AST-4425 for models/engine applications.



AST-4312 VANOS Engagement Wrench

For BMW twin camshaft engines with single Vanos unit mounted on Inlet camshaft.
Use with AST-4425 kit. See AST-4425 for models/engine applications.



Petrol 1.6 to 1.9 s.o.h.c. M43 (Chain)

MODELS :

316i E36/E46 (93-04)
316i Compact E36/E46 (98-01)

318 E36/46 (93-01)
518 E34 (94-96)
Z3 1.8 / 1.9 E36 (96-03)

ENGINES :

M43 - 16 4E 2

16 4E 3
18 4E 2
19 4E 1

AST-4146



Petrol 1.8 and 2.0 N42 / N46 (chain)

MODELS :

118i. E87 (04-08)
120i. E87 (04-08)
316i. E46 (01-05)
316ti. Compact E46 (01-05)
318i. E46 (01-07)

318i. E46 (01-07)
318i. Compact E46 (01-05)
318i. E90 (05-08)
320i. E90 (05-08)
520i. E60 (04-08)
Z4. 2.0i E85 (04-08)
X3. 2.0i E83 (05-08)

ENGINES :

N42 / N46

B18
B18A

B20
B20A
B20B

Overhaul of VALVETRONIC SYSTEM

AST-4800 - AST-4815





Petrol 1.6 N40 / N45 / N45T (Bell)

AST-4870

MODELS :

116i. E81/E87 (03-08)
316i. E46/E90 (01-08)
316Ci. E46 (01-06)
316ti. E46 (01-05)

ENGINES :

N40 / N45 / N45T
B16



Petrol 2.5 / 3.0

N51 / N52 / N52K / N53 / N54 (Chain)

AST-5000

MODELS :

128i. E82 (07-08)
130i. E81 / E87 (05-08)
135iS. E82 (07-08)
323i. E90/91/92/93 (04-08)
325i / xi. E90/91/92/93 (04-08)
328i / xi. E90/91/92/93 (04-08)
330i / xi. E90/91/92/93 (04-08)
335i / xi. E90/91/92/93 (04-08)
523i / Li. E60/E61 (04-08)

525i / Li / xi. E60/61 (04-08)
528i / Li / xi. E60/61 (06-08)
530i / Li / xi. E60/61 (05-08)
535i / xi. E60/61 (06-08)
630i. E63/64 (04-08)
730i / Li. E65/66 (04-08)
X3 2.5/ 3.0. E83 (06-08)
X5 3.0. E70 (06-08)
Z4 2.5/3.0. E85/86 (05-08)

ENGINES :

N51 / N52 / N52K
Valvetronic
N53 / N54

Direct Injection
Non - Valvetronic



Petrol 5.0 / 5.6 V12 M70 / M73 (Chain)

AST-4564

MODELS :

750i. E32/E38 (87-02)
850i. E31 (90/99)

ENGINES :

M70 / M73
50 12 A
54 12 1

54 12 2
56 12 1





Diesel 1.7 2.5td / tds M41 / M51 (Chain)

AST-4411

MODELS :

318tds, E36 (94-00)
325td/tds, E36 (91-99)
525td/tds, E34/E39 (90-00)
725tds, E38 (95-02)
Also for Range Rover 2.5DT/SE
and Opel Omega-B

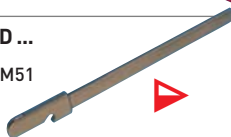
ENGINES :

M41 / M51



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4415 Tensioner Rail Lever - M41 / M51



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

AST-4555A

MODELS :

118d, E87 (04-08)
120d, E87 (04-08)
318d/td, E46/E90/91 (00-07)
320d/cd, E46/E90/91 (97-07)
325d, E90/91/92/93 (06-08)
330d/xd/cd, E46/E90/91/92/93 (98-08)
335d, E90/91/92 (06-08)
520d, E39/e60/61 (99-08)
525d/xd, E39/e60/61 (99-08)

530d/xd, E39/E60/61 (98-08)
535d, E60/61 (04-08)
635d, E63/61 (04-08)
730d/Ld, E38/E45/66 (98-08)
X3 2.0d E83 (03-07)
X3 3.0d/sd, E83 (03-08)
X5 3.0d, E53/E70 (00-08)



ENGINES :

M47 / M57
M47TU / M57TU
M47T2 / M57T2
Also for Land Rover Freelander (TDi) / Range Rover (Td6)
Rover 75 and Opel Omega



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4553 Diesel BMW - 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.

Note : Land Rover and Rover applications require AST-4554 pump remover/sprocket retainer.





Petrol tensioner Adjuster - water pump (belt)

AST-V501A

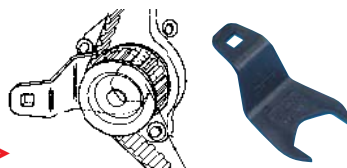
MODELS :

Kalos (04-07)
Lacetti (04-07)
Nubira (97-07)
Tacuma / Rezzo (04-07)
Nexia (95-97)
Lanos (97-03)

ENGINES :

1.4,
A14SMS
F14S3
1.4 16V,
F14D3

1.5,
A15DM
A15SMS
A15MF
1.6 16V
A16DM
A16DMS
F16D3



CHRYSLER - JEEP



Petrol 1.8 / 2.0 / 2.4 Crankshaft Pulley Removal and Installation (Belt)

AST-4745

MODELS :

ECB, ECC, EDZ
Neon (95-04),
Stratus (94-01),
PT Cruiser (00-09),
Voyager (94-09),
Grand Voyager (94-09)

ENGINES :

1.8, 2.0, 2.4



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4593 Pin Set - Automatic Belt Tensioners



Diesel 2.1 D Turbo (Belt)

AST-4390

MODELS :

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

ENGINES :

J85



Diesel 2.5CRD (Belt)

AST-4945A

MODELS :

Voyager (01-09)
Grand Voyager (01-09)
Jeep Cherokee

ENGINES :

2.5 CRD
R2516C

Includes
Balancer a
Shaft Locking
Pins





Petrol 1.0 to 2.0 TU / XU (Belt)

AST-4388A

Note : Kit AST-4388A also covers TUD / XUD diesel engines. For EW Engines - see kit AST-4825. For ET[KFU] + KFU/KFW codes - see set AST-4935

MODELS :

Citroën

C2 (03-09)
C3/Pluriel (02-09)
C4 (04-09)
AX(91-97)
Saxo (96-03)
ZX (91-98)
Xsara (97-06)
Xsara Picasso (99-09)
Xantia (93-01)
XM (93-01)
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 (06-09)
306 (93-03)
307/CC (01-09)
405 (92-97)
406 (95-02)
605 (93-00)
806 (94-01)
Partner (96-09)
Boxer (94-06)

ENGINES :

1,0 : TU9 (CDY/CDZ)
1,1 : TU1 (HDY/HDZ/HFY/HFZ)
1,4 : TU3 (KDX/KDY/KDZ/KFX/KFZ)
1,6 : TU5 (BDY/BFZ/NFT/NFV/NFW/NFY/NFZ)
1,6 16v : TU5JP4 (NFU/NFX)
1,8 : XU7 (LFW/LFX/LFZ)
1,8 16v : XU7JP4 (LGY)
2,0 : XU10 (RFL/RFU/RFW/RFX)
2,0 Turbo : XU10 (RGX/RGY)
2,0 16v : XU10JP4 (RFS/RFT/RFV/RFY)



WITH THIS KIT YOU WILL ALSO NEED ...

AST-3398 Flywheel Holding tool

ENGINES :

XU 1.6 to 2.0



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4358 Flywheel Holding tool

ENGINES :

XU 1.8 / 2.0 16v



Petrol 1.8 / 2.0 / 2.2 16v. EW (Belt)

AST-4825

MODELS :

Citroën

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

Peugeot

206/CC (98-07)
307/CC (01-09)
406 (99-04)
406 Coupe (99-06)
407 (04-08)
407 CC (04-09)
607 (00-09)
806 (00-02)
807 (02-06)
Expert (00-09)

ENGINES :

1.8 16v. EW7J4(RLZ)
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)



Includes new timing tools for 2nd generation EW engines



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4576 Crank Pulley Flange Repositioning Tool - Engines with non - adjustable camshaft sprockets



Petrol 1.4 16v ET + KFU-KFW (Belt)

AST-4935

MODELS :

Citroën

C2 (03-09)
C3 / Pluriel (04-09)
C4 (04-09)
C4 Picasso (06-09)
Saxo (00-03)
Xsara (00-04)
Berlingo (01-09)

Peugeot

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

ENGINES :

ET3JE(KFU)
TU3A/JP (KFU/KFW)





Petrol 3.0 24v V6 (Belt)

Also for Renault Laguna, Safrane and Espace models

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)
ES9J4/L3(XFZ)

AST-4580



Diesel 1.4 / 1.6 / 2.0 / 2.2 Hdi (Belt)

MODELS :

Citroën
C1 [05-09]
C2 [03-09]
C3 / Pluriel [02-09]
C4 / Picasso [04-09]
C5 [00-08]
C8 [02-07]
Xantia [98-01]
Xsara [99-06]
Xsara Picasso [99-09]
Evasion / Synergie [99-02]

Berlingo [99-09]
Dispatch / Jumpy [99-07]
Relay / Jumper [01-06]

Peugeot
107 [05-09]
1007 [05-09]
206/CC [99-09]
207 [06-09]
306 [99-02]
307 [01-08]
307/CC [05-09]

308 [07-09]
406 [98-04]
406 Coupe [00-06]
407 [04-09]
607 [00-09]
806 [99-02]
807 [02-07]
Partner / Ranch [99-09]
Expert [99-07]
boxer II [02-06]

AST-4820



Includes tools for Adjustable Crank Gear timing

ENGINES :

1.4Hdi
DV4TD (8HT/8HW/8HX/8HZ)
DV4TED4 (8HV/8HY)
1.6Hdi
DV6TED (9HY/9HZ)

DV6ATED4 (9HW/9HX) (not Partner)

2.0Hdi
DW10TD(RHY)
DW10UTD(RHV)
DW10ATED/L3 (RHS/RHZ)
DW10ATED4 (RHM/RHW)
DW10ATED4/L4 (RHT)

DW10BTED4 (RHR)
DW10BTED/L3 (RHX)
2.2Hdi
DW12ATED/DW12TED4 (4HX/4HZ)
DW12TED4/L4(4HW)
DW12UTD(4HY)



Diesel 1.4 / 1.6 Hdi (Belt)

MODELS :

Citroën
C1 [05-09]
C2 [03-09]
C3 / Pluriel [02-09]
C4 / Picasso [04-09]
C5 [04-08]
C8 [02-07]

Xantia [98-01]
Xsara [02-04]
Xsara Picasso [04-09]
Evasion / Synergie [99-02]
Berlingo [05-09]

ENGINES :

1.4Hdi
DV4TD (8HT/8HW/8HX/8HZ)
DV4TED (8HV/8HY)

1.6Hdi
DV6TED (9HY/9HZ)
DV6ATED4 (9HW/9HX)

Peugeot
107 [05-09]
1007 [05-09]
206/CC [01-09]
207 [06-09]
306 [99-02]
307 [01-08]
307/CC [01-08]
308 [07-09]
406 [98-04]
406 Coupe [00-06]
407 [04-08]

AST-4735A



Diesel 1.9D DW8 (Belt)

MODELS :

Citroën
Xsara [98-04]
C15 [01-06]
Dispatch / Jumpy [99-07]
Berlingo [98-07]

Peugeot
206 [98-04]
306 [98-02]
Partner [98-07]
Expert [99-07]

ENGINES :

DW8
DW8/L3
DW8/L/W3
DW8B

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

AST-4822





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

AST-4388A

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 (96-00)
Expert (95-00)
Boxer (94-02)

For Hdi diesels see kit AST-4820

Note : AST-4388A kit also covers
TU / XU petrol engines

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 : (T8A / T9A / THX / THY / THZ)



WITH THIS KIT YOU WILL ALSO NEED ...

AST-3398 Flywheel Holding tool

crank pulley removal

ENGINES :

XU 1.6 to 2.0

1.8D and 1.9D



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4358 Flywheel Holding tool

ENGINES :

1.9D Turbo and 2.1D Turbo



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4359 Flywheel Holding tool

ENGINES :

1.5D



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4377 Diesel Pump Sprocket Remover

if removing the injection pump/sprocket you will also need...



Diesel 2.7 TDV6 (Belt)

AST-4965

MODELS :

Citroën

C5 (07-09)
C6 (06-09)

Peugeot

407/Coupe
(04-09)
607 (04-09)

ENGINES :

DT17TED4 (UHZ)



Diesel 2.8D / TDI / HDI (Belt)

AST-4865

MODELS :

Citroën

Relay / Jumper
(01-06)

Peugeot

Boxer (00-06)

ENGINES :

8140.63

8140.43

8140.43S





Diesel Engine & Injection Pump Timing

AST4334 "Multi-Marque" kit

For crankshaft, camshaft and injection pump timing on a wide range of popular car & van diesel engines

ENGINES :

Audi : 1,9D/TDI - 1Y, 1Z, AAZ, AHU, AFN, AFF & AVG

Peugeot / Citroën : 1,4D - 1,7D/TD, 1,8D/TD, 1,9D/TD, 2,1 & 2,2TD - TUD & XUD

Fiat/FSO : 1,9D/TD (PSA Engines)

Ford : 1,6D, 1,8D/TD (88-02), 1,9TDI (-00) & 2,5D/Di (-00)

LDV/Mazda : 1,8D & 1,9D (PSA & Ford Engines)

Rover : Metro, Maestro & Montego 114D, 218/418SD, 1,4D, 1,8D & 2,0D

Seat : 1,3D, 1,4D, 1,7SDi, 1,9D Turbo, 1,9SDi/TDi MN, 1W, AAZ, AEY, AFN, AHU, AKW & AVG

Skoda : Felicia 1,9D Code AEF

Opel : 1,6D, 1,7D/DR/DTL+Isuzu Engines 1,5D to 3,1TD

Volkswagen : 1,6D, 1,7D, 1,9DT, 1,9SDi/TDi & 2,4D Codes MN, 1W, 1Y, 1Z, AEY, AFN, AHB, AHU, AKW, ALE, AHH, AZZ, AVG, ACL, & ACT

Volvo : 240, 740, 760, 940, 960D/Turbo, 2,4D

AST-4334



Includes Injection Pump Timing Tools for Bosch VE, DIESEL KIKI, Nippondenso & CAV/ROTODiesel (Top Entry) Pumps.



Diesel COMBINATION - Bosch + CAV / Roto Diesel Timing

Bosh VE pumps with M8, M10 and M12 service ports.

CAV/ RotoDiesel with Top Entry service Port.

A combination kit covering the most popular distributor type fuel injection pumps found in cars and vans.

Kit comes complete with DTI (Dial Gauge)

ENGINES :

Bosh VE (Rotary)

Diesel kik VE

Nippondenso VE

CAV / RotoDiesel

AST-4400G



Diesel BOSCH VE - Rotary Injection Pumps Timing

Static Timing of Bosh VE "distributor type" fuel injection pumps found in cars and vans.

Covers M8, M10 and M12 service port connections.

Also covers Diesel Kiki and Nippondenso VE pumps.

Kit includes DTI

AST-4398G



Diesel CAV / ROTODIESEL / LUCUS - Injection Pumps Timing

Static timing of CAV/RotoDiesel fuel injection pumps found in cars and vans.

Covers top entry service port connection.

Kit includes DTI

AST-3168G





Diesel Renault - Ram system (Timing)

Renault 1,9 Diesels F9Q
With adjustable sprocket for pump timing RAM (Reglage Angulaire Micrometrique) System
Also covers Mitsubishi, Opel and Volvo models

AST-4389



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4374 Diesel "Ram" Injection Pump Tool



Diesel BMW - Pump Remover / Sprocket Retainers

Retention of pump sprocket position, in-situ, when removing pump.
Minimises level of engine dis-assembly required - sprockets/timing chain remain undisturbed.

AST-4414 :

M41/M51 in 3 Series E36, 5 Series E34 and 7 Series E38

AST-4553 :

M47/M57 in 1 Series E87, 3 Series E46/E90, 5 Series E39/E60, 6 Series E63, 7 Series E38/E65, X3 E83 and E53/E70

AST-4553 AST-4414



Diesel LAND ROVER / ROVER M47 / Pump Remover / Sprocket Retainer

Similar to AST-4553 (BMW) but designed to suit transverse mounted engines.
Retention of pump sprocket position, in-situ, when removing pump.

MODELS :

Rover 75 (99-05)

MG ZT (01-05)

Freelander. (02-06) Td4

ENGINES :

M47

M47R

Minimises level of engine dis-assembly required - sprockets/timing chain remain undisturbed.

AST-4554



Diesel FORD 2.0 / 2.2 / 2.4 Duratorq Timing / Pump Sprocket Retainer

Kit covers Timing + Retention of pump sprocket position, in-situ, when removing pump.

MODELS :

FORD

Mondeo (00-07)

Transit (00-08)

JAGUAR

X - Type (03-08)

LDV

Convoy (02-06)



AST-4730



Minimises level of engine dis-assembly required - sprockets/timing chain remain undisturbed.



Diesel CITROEN-PEUGEOT Pump Sprocket Remover

MODELS :

all XUD diesels

compact removal tool designed for use in limited space.

AST-4377





Petrol 1.2 / 1.4 8v (Belt)

AST-4950

MODELS :

New 500 (07-08)
Idea (04-08)
Linea (07-08)
Grande Punto (07-08)
Doblo (05-08)
Panda EVO2 (05-08)

ENGINES :

1.2 8v.
169A4.000
199A4.000
1.2 8v (EVO2 Only)
188A4.000
1.4 16v.
350A1.000



Petrol 1.2 / 1.4 16v Twin Cams (Belt)

AST-4510A

MODELS :

New 500 (07-08)
Idea (04-08)
Linea (07-08)
Panda (03-08)
Grande Punto (07-08)
Punto (03-08)

Stilo (01-08)
Marea / Weekend
(98-08)
Bravo/Brava (98-02)
New Bravo (07-08)
Palio Weekend (01-06)

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 and
Crank tool
for 1,4 16V
engines



Petrol 1.6 16v. Twin Cams (Belt)

AST-4520A

MODELS :

Brava/Bravo (95-00)
Marea/Weekend (98-00)
Palio Weekend (97-06)
Siena (97-03)

Stilo (01-08)
Multipla (99-08)
Doblo/Cargo (02-06)

ENGINES :

178B3.000
182A4.000
182A6.000
182B2.000
182B6.000



WITH THIS KIT YOU WILL ALSO NEED ...
AST-3398 Flywheel Holding tool
crank pulley removal

ENGINES :
Stilo



WITH THIS KIT YOU WILL ALSO NEED ...
AST-4519 TDC Positioning Tool - All Engines
Requires suitable Dti such as AST-3054-10)



WITH THIS KIT YOU WILL ALSO NEED ...
AST-4523 Flywheel Holding tool
crank pulley removal

ENGINES :

Brava/Bravo
Marea/Weekend
Multipla
Doblo



Universal Camshaft Sprocket Holding Tool

AST-4844

Timing belt replacement on Fiat Petrol engines requires the camshaft sprockets to be free to turn on camshafts. AST-4844 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.

AST-4844

4 x sizes Inter-changeable Location Pins.





Petrol AL - FI System Camshaft Setting Plate Kit

AST-4906



The AL-FI System has been developed by AST to offer an 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 position by use of camshaft setting plates fixed on the engine in place of designated bearing caps at specified cylinder locations.

MODELS :

Punto
Brava / Bravo
Marea / Marea
Weekend

ENGINES :

182A2.000 188A6.000
183A1.000 192A4.000
183A6.000



Petrol ALFA - FIAT Combination Kit (Belt)

AST-4970



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.

MODELS :

Fiat :
Punto Barchetta
Brava/Bravo Coupe
Marea/Marea Stilo. 1.8 16V
Weekend 2.0 and 2.4
2.0V engines

ENGINES :

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



WITH THIS KIT YOU WILL ALSO NEED ...
AST-3054-10



Petrol FIAT 1.8 16v - 2.0 / 2.4 20v Twin Cams (Belt)

AST-4920

Engine Timing Belt Replacement Tool Kits covering Fiat Twin Cams. Kits utilise the AL-FI universal Camshaft Setting System and includes tools for crankshaft / flywheel locking and belt tensioning.

MODELS :

Punto Marea / Marea Weekend Coupe
Brava / Bravo Barchetta Stilo

ENGINES :

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



WITH THIS KIT YOU WILL ALSO NEED ...
AST-4519 TDC Positioning Tool - All Engines



Petrol 2.0 / 2.0T 20V. Twin Cams (Belt)

AST-4530 AST-4531



MODELS :

Bravo (95-01)
Marea/Weekend (96-00) Coupe (96-01)

ENGINES :

175A3.000 182B3.000
182A1.000 182B7.000



WITH THIS KIT YOU WILL ALSO NEED ...
AST-4519 TDC Positioning Tool - All Engines
Requires suitable Dti such as AST-3054-10





Diesel 1.9 JTD / 2.4 JTD (Belt)

AST-4850

MODELS :

Punto (99-06)
Grande Punto (05-08)
Idea (04-07)

Brava / Bravo (98-02)
New Bravo (07)
Marea / Weekend
(99-03)

Stilo (01-06)
Croma (05-08)
Multipla (99-04)
Doblo/Cargo (02-08)

ENGINES :

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



Diesel 2.0 / 2.2JTD (Belt)

AST-4820

MODELS :

Ulysse (99-07)
Scudo (99-07)
Ducato (01-08)

ENGINES :

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

Citroën and
Peugeot
engines in Fiat
Models



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

AST-4865

MODELS :

Ducato (87-06)
Talento (87-02)

ENGINES :

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

Also for
Citroën,
Peugeot,
Iveco, Renault
models.



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

AST-4925

MODELS :

Ducato (02-08)

ENGINES :

2.3JTD - F1AE0481C
3.0JTD - F1CE0481D

Also for Iveco
Daily



Diesel 1.3JTD Multi - Jet 16v (Chain) Engine Overhaul Timing

AST-4880

Complete Overhaul Timing kit includes engine setting/locking tools (from **AST-4885**) and additional special tools for retaining engine timing when carrying out cylinder head and major overhaul work.

MODELS :

New 500
(07-08)
Idea (04-08)
Linea (07-08)

Panda (03-08)
Grande Punto
(07-08)

Punto (03-08)
Doblo/Cargo
(04-06)

ENGINES :

188A8.000 199A2.000
188A9.000 199A3.000



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4885 Diesel 1.3JTD Multi - Jet 16v (Chain) Engine Timing Applications Only

Smaller set for engine timing applications only.
Camshaft setting tools and Flywheel locking pin.





Petrol 1.25 to 2.0 16v DURATEC (Belt / Chain)

MODELS :

Fiesta [95-08]
Focus [98-08]
Focus C-Max [03-08]
Mondeo [93-08]
Tourneo Connect [02-08]
Transit Connect [02-06]
Fusion [02-08]

S-Max [06-08]
Galaxy [06-08]
Puma [97-02]
Cougar [98-01]
Courier [95-08]

ENGINES :

1.25 16v (Belt)

DHA DHB DHC DHE DHD DHF DHG
F8JA F8JB FUJA FUJB M7JA M7JB

1.4 16v (Belt)

ASDA ASDB FHA FHD FHE FHR FHF
FXDA/C FXDB/D FXJA FXJB.

1.6 16v (Belt)

FYDA/C FYDB/D FYJA FYJB L1F L1J
L1L L1N 1LQ L1T L1V L1W HWD A
HWD B.

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 16v (Chain)

CBBB CGBA/B CHBA/B CSDA CSD B
QQDA QQDB QQDC.

AST-4404C



2.0 16v (Belt)

EDBA/C EDBB EDBD EDD B EDDC
EDDD EDDF NGA NGB NGC NGD.

2.0 RS / ST170 (Belt)

ALDA HMDA.

2.0 16v (Chain)

AODA AODB AOWA CJBA/B



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4629 Crankshaft Pulley Remover / Installer Set

MODELS :

Fiesta / Courier 1.25 / 1.4 16v
[-02]

Puma 1.4 / 1.6 16v
[-7/981.7 16v [-02]



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4736 Crankshaft Pulley Holding Tool

MODELS :

Focus / C-Max 1.8 16v / 2.0 16v
(Chain)

Mondeo 1.8 16v / 2.0 16v (Chain)
S-Max / Galaxy (Chain)



Petrol 1.6 Ti-VCT 16v Duratec (Belt)

MODELS :

Focus [04-08]
Focus C - Max [03-08]
Mondeo [07-08]

ENGINES :

HXDA

Also covers
variable
camshaft
timing
adjustment



AST-4930



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.

MODELS :

1.8TDdi / TDCi Diesels

New 2.0TDCi Diesel

1.6 Ti-VCT Petrol Engines



AST-4834





Diesel 1.4 / 1.6TDCi DURATORQ (Belt)

AST-4735A



MODELS :

Fiesta (02-08)
Fusion (02-08)

ENGINES :

1.4TDCi
F6JA
F6JB

F6JC
1.6TDCi
G8DA

G8DB
HHDA
HHDB

HHJA
HHJB



Diesel 1.4 / 1.6TDCi, 1.8DT / TDDi / TDCi, 2.0TDCi DURATORQ (Belt)

AST-4830



MODELS :

Fiesta/Courier (00-08)
Focus (98-08)
Focus C-Max (03-08)
Mondeo (07-08)

Tourneo Connect (02-08)
Transit Connect (02-08)
Fusion (02-08)
S-Max (06-08)
Galaxy (06-08)

ENGINES :

1.4TDCi
F6JA
F6JB
F6JC

1.6TDCi
G8DA
G8DB
HHDA
HHDB
HHJA

HHJB
1.8D Turbo
RTN
RTQ
RTP
C9DC

1.8TDDi
BHDA/B
BHPA
C9DA/B
C9DC
1.8TDCi

F9DA/B
FFBA
FFDA
HCPA
HCPB
KKDA

P7PA
P9PA
QYWA
R2PA
R3PA
RWPA

2.0 TDCi
G6DA
AZWA
G6DB
QXWA
G6DC



Diesel 1,9 Tdi (Pumpe Duse - Galaxy (Belt)

AST-4840



MODELS :

Galaxy (99-06)

ENGINES :

ANU

ASZ

AUY



Diesel 2.0 / 2.2 / 2.4 - Tddi / TDCi Duratorq (Chain) - Engine Timing and Pump Removal / Installation

AST-4730

AST-4730 covers Engine Timing and Pump Removal/Installation (retention of pump sprocket position with pump removed)

MODELS :

Mondeo (00-07) Transit (00-08)

ENGINES :

2.0Ddi
ABFA
D3FA
F3FA

2.0TDDi
D5BA
D6BA

2.0TDCi
FMBA
FMBB
FIFA

HJBA
HJBB
HJBC
HJBE

N7BA
N7BB
SDBA

2.2TDCi
QJBA
QJBB
QJBC
QJBD

2.4 Ddi
D2FA
D4FA
D0FA
F4FA

2.4 TDCi
FXFA
H9FA
H9FB
JXFA
PHFA



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4731 Engine timing

AST-4731 covers Engine timing Applications only for same applications as AST-4730 kit.

Note : AST-4731 set is included in AST-4730 Kit



Diesel 2,0/2,2 Tddi / TDCi DURATORQ (Chain) Auxiliary Belt Tensioner

AST-4833

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

MODELS :

Mondeo (00-07)



Diesel 1.9Tdi - Galaxy (Belt)

AST-4333

MODELS :

Galaxy (95-00)

ENGINES :

1Z
AFN

AHU
AVG

For later 1,9 Tdi (pump duse) engines in Galaxy - see AST-4840 kit





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

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

AST-4656



Diesel 2,0TDi (Belt)

MODELS :

Civic [97-00]
Accord [96-03]

ENGINES :

20T2N

20T2R

AST-4406A



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4844 Universal Camshaft Sprocket Holding Tool

HYUNDAI



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

MODELS :

Lantra [91-96]
Sonata [93-01]

Trajet [00-05]
Santa-Fe [01-06]

ENGINES :

GA-N
G4-P

G4CP
G4-R

4JP
G4JS

AST-4657



IVECO



Diesel 2.5D / 2.8D (Belt)

MODELS :

Daily [91-05]
Turbo Daily [94-00]

ENGINES :

2.5D

8140.07

814.27S

8140.47

8140.47R

8140.67F

8140.97

2.8D

814.23

8140.43C

8140.43S

AST-4865



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

MODELS :

Daily [03-06]

ENGINES :

2.3JTD

F1AE0481A

F1AE0481B

3.0JTD

F1CE0481A

AST-4925





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

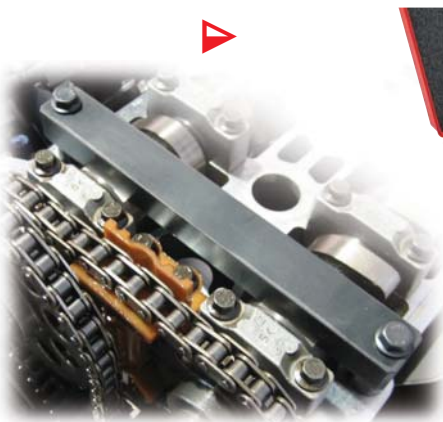
AST-4980

MODELS :

XJ (97-08)
S - Type (99-08)
XF (08-)
XK (97-08)

ENGINES :

AJ26
AJ27
AJ28
AJ34



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4985 Crankshaft Pulley Remover / Installer Set

Crankshaft pulley removal / installer set.

Incorporates pulley removal and holding tool.

Crankshaft pulley must be removed for engine overhaul applications / removal of front timing chain cover.

Essential Tools : Crank pulley bolt is tightened to 375 Nm



Diesel 2.0D / 2.2D (Chain) - Engine Timing and Pump Removal / Installation

AST-4730

AST-4730 covers Engine Timing and Pump Removal/Installation (retention of pump sprocket position with the pump removed)

MODELS :

X - Type (03-08)

ENGINES :

2.0D
FMBA
FMBB

2.2D
QJBA



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4731

Covers engine timing applications only for same applications as **AST-4730** kit.

Note : **AST-4731** set is included in **AST-4730** kit



Diesel 2.7 TDV6 (Belt)

AST-4965

MODELS :

S-Type (04-08)
XJ (04-08)
XF (07-08)

ENGINES :

276DT
DT17TED4 (UH2)





Petrol 1.2 / 1.4 16v Twin Cams (Belt)

MODELS :

Ypsilon (96-08)
Musa (02-07)

ENGINES :

1.2 16v.
176B9.000
188A5.000.
1.4 16v.
843A1.000



AST-4510A



Petrol 1.6 16v. Twin Cams (Belt)

MODELS :

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

ENGINES :

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



AST-4520A



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4519 TDC Positioning Tool - All Engines



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4523 Flywheel Holding tool



Petrol 1.8 / 2.0 / 2.2 16v. EW (Belt)

MODELS :

Phedra (02-06)

ENGINES :

EW10 (RFN)



AST-4825



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4576 Crank Pulley Flange Repositioning Tool -
Engines with non - adjustable camshaft sprockets





Petrol 3.0 24v V6 (Belt)

AST-4580

MODELS :

Phedra [02-06]

ENGINES :

XFW



Diesel 1.3JTD Multi - Jet 16v (Chain) Engine Overhaul Timing

AST-4880

AST-4885 complete overhaul engine kit includes engine setting/locking tools (from **AST-4885**) and additional special tools for retaining engine timing when carrying out cylinder head major overhaul work.

MODELS :

Ypsilon [03-08]

Musa [04-08]

ENGINES :

188A8.000

188A9.000



WITH THIS KIT YOU WILL ALSO NEED ...

Engine setting / locking

AST-4885 smaller set for engine timing applications only.
Camshaft setting tools and flywheel locking pin.



Diesel 1.9 JTD / 2.4 JTD (Belt)

AST-4850

MODELS :

Lybra [99-07]

Musa [04-08]

Kappa [98-02]

Thesis. [02-08]

ENGINES :

1.9 JTD 8v

323.02

371.01

188B2.000

937A2.000.

2.4 JTD 10v

838A8.000

839A5.000

839A6.000

841C.000

2.4 JTD 20v

841G.000

841H.000.



**Kit Covers
latest 2.4 20v
engines**



Diesel 2,0 JTD / 2,2 JTD (Belt)

AST-4820

MODELS :

Zeta [99-02]

Phedra [02-07]

ENGINES :

2,0JTD

DW10ATED (RHW/RHZ)

2,2JTD

DW12 (4HW)



**Includes tools
for Adjustable
Crank Gear
timing**





Diesel 2.0 Td4 / 3.0 Td6 (Chain)

MODELS :

Freelander (00-06) Td4
Range Rover (02-06) Td6

ENGINES :

204D3/Td4 (2.0 M47: BMW)
TD6 (3.0 M57 BMW)

AST-4555A



WITH THIS KIT YOU WILL ALSO NEED ...

M47 / M57 Pump Remover / Sprocket Retainers

AST-4553 for in line engines



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4554 for transverse mounted engines



Diesel 2.0 Turbo ' L Series (Belt)

MODELS :

Freelander (97-00)

ENGINES :

20T2N
20T2R

AST-4406A



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4844 Universal Camshaft Sprocket Holding Tool

sprocket holding tool with interchangeable pins



Diesel 2.5D Turbo (Chain)

MODELS :

Range Rover (94-02)

ENGINES :

256T (M51 BMW)

With this kit
you will also
need AST4415
(Tensioner Rail
Lever)

AST-4411



AST-4415 Tensioner Rail Lever -



Diesel 2.5D / 200 Tdi / 300 Tdi (Belt)

MODELS :

90/110/130 Defender (85 - 99)
Discovery (90-98)
Range Rover (93-95)

AST-3243





Diesel 2.5D Td5 (Chain)

AST-4875

MODELS :

90/110/130/Defender (99-07)
Discovery (98-05)

ENGINES :

10P
15P (Td5)



Diesel 2.7 TDV6 (Belt)

AST-4965

MODELS :

Discovery 3 (04-08)
Range Rover Sport (05-08)

ENGINES :

276DT



Petrol 1.8 / 2.0 16v (Belt)

AST-4386

MODELS :

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

ENGINES :

18K16
20T4 (T16)



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4308 Crank Pulley Removing Tool 2,0 16v (T16)



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4307 Flywheel Holding tool (crank pulley removal)



Petrol 2.5 KV6 - (Front and Rear Belts)

AST-4605

MODELS :

Freelander (00-06)

ENGINES :

KV6

also for MG/
Rover models



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4614



Petrol 4.0 / 4.2 V8 (Chain)

AST-4980

MODELS :

Range Rover
LM (06-08)
Range Rover Sport - LS (05-08)

Discovery III
LA (05-08)

ENGINES :

AJ34



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4985 Crankshaft Pulley Remover / Installer Set incorporates pulley removal and holding tool. Crankshaft pulley must be removed for engine overhaul applications / removal of front timing chain cover.

Essential Tools : crank pulley bolt is tightened to 375 Nm





Diesel 1.5D to 2.5D TUD / XUD (Belt) Petrol 1.0 to 2.0 TU / XU (Belt)

MODELS :

Sherpa [95-96]
200 [95-96]
300 [95-96]
400 [95-96]
Pilot [96-02]

ENGINES :

XUD9A
XUD9A/L3



AST-4388A



Diesel 1.9D DW8 (Belt)

MODELS :

Pilot [02-05]

ENGINES :

DW8B/L4



AST-4822



Diesel 2.4TD / Tdi (Chain) - Engine Timing and Pump Removal / Installation

MODELS :

Convoy [02-06]

ENGINES :

ZSD424



AST-4730



WITH THIS KIT YOU WILL ALSO NEED ...

Diesel 2.4TD / Tdi (Chain) - Engine Timing

Note : AST-4731 set is included in AST-4730 Kit

ENGINES :

ZSD424



Diesel 2.5D / Di (Belt)

MODELS :

Convoy [97-02]

ENGINES :

4EB
4HB



AST-4625



Diesel 2.5CRD (Belt)

MODELS :

Maxus [05-08]

ENGINES :

VM2516L

Includes
Balancer
Shaft Pins

AST-4945A





Petrol 1.25 to 2.3 16v (Belt / Chain)

MODELS :

121 (95-00)
2 (02-07)
3 (03-06)
6 (02-07)
Tribute (01-04)

ENGINES :

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

AST-4404C



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4629 Crankshaft Pulley Remover / Installer Set



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4736 Crankshaft Pulley Holding

ENGINES :

L8
LF
L3



Diesel 1.8D (Belt)

AST-433 I

MODELS :

121 1,8D (95-97)

ENGINES :

RJK



Diesel 1.6D (Belt)

AST-4735A

MODELS :

2 (02-07)
3 (04-08)

ENGINES :

F6JA
Y6



MITSUBISHI



Petrol 1.8 to 3.5 16v / V6

MODELS :

Colt (89-95)
Lancer (89-95)
Carisma (96-00)
Galant (93-03)
Sigma (91-96)
Eclipse (91-95)
3000GT (93-00)

Space Star (99-00)
Space Runner (99-04)
Space Wagen (99-05)
Outlander (03-07)
Shogun/Pajero/Pinnin/
Montero (94-07)
Challenger (98-00)

ENGINES :

1.8 16v / Gdi	4G94	6A13
4G67	6A12	3.0 V6
4G93	2.4 / Gdi	6G72
2.0 / 16v /	4C64	3.5 / Gdi V6
V6 / Gdi	2.5 V6	6G74
4G63	6G73	

AST-4657



Diesel Ram injection pump Timing

MODELS :

Carisma (97-02)

ENGINES :

F8QT (Renault)

AST-4389



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4374 RAM sprocket remover



Diesel 1.5 dCi K9K

MODELS :

Micra K12 (03-08) Qashqai (07-08)
Almera N16 (02-06) Kubistar (03-08)
Note (06-08)

ENGINES :

K9K	270	274	702	710
260	272	276	704	

AST-4960



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

MODELS :

Micra K12 (03-08)
Almera N16 (02-06)
Note (06-08)
Qashqai (08)
Primera P12 (03-07)
Kubistar (03-08)
Primatar (02-07)
Interstar (02-06)

ENGINES :

1.5 dCi / K9K	1.9dCi / F9Q	2.5dCi / G9U
260	760	720
270	762	724
272	772	726
274	774	750
276	2.2dCi / G9T	754
702	722	
704	750	
710		

AST-4760B



OPEL



Petrol 1.0 / 1.2 / 1.4 Twin Cam (Chain)

MODELS :

Agila (00-08)
Corsa B (97-00)

Corsa C (00-07)
Corsa D (07-08)
Combo (97-07)
Tigra B (04-08)

Astra G (98-06)
Astra H (04-08) Meriva
(04-08)

ENGINES :

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

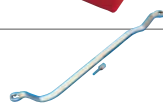
Includes
1.0/1.2/1.4
Twinport
engines

AST-4485



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4490



Petrol Tensioner Adjusters (Via Water Pump)

AST-V500A - AST-V501A

MODELS :

AST-V500A
1.8 and 2.0 s.o.h.c
Astra F
Calibra
Frontera C18NZ
C20NE.

1.6D and 1.7D
Diesel - Astra
Cavalier
Vectra
16DA
17D

MODELS :

AST-V501A
1.2 1.4 1.6
s.o.h.c Petrol
Corsa B / C

Combo
Astra F
Vectra B
C12NE
X12SZ
C14NZ

X14NZ
C14SE
X14SZ
X16SZ
X16SZR
Z16SE





Petrol 1.4 to 2.2 16v EcoTec Twin Cam (Belt)

MODELS :

Corsa B / C (93-07)
 Combo (93-00)
 Tigra (95-00)
 Tigra B (04-08)

Meriva (03-08)
 Astra F / G / H (95-07)
 Speedster / VX220 (03-06)
 Zefira A / B (99-08)

Vectra B / C (95-07)
 Signum (03-07)
 Omega B (96-03)
 Sintra (96-99)
 Frontera A / B (95-04)

AST-4620



Y22XE
 Z22XE



ENGINES :

1.4 16V
 X14XE
 X14E

1.6 16V
 X16SEJ
 X16XE
 X16XEL
 Y16XE

1.8 16V
 Z16YNG.
 C18XEL
 X18XE

2.0 16V
 X18XE1
 Z18XE
 Z18XEL
 C20SEL

2.2 16V
 C20XE
 X20XEV
 Z20LEH
 Z20LEL
 Z20LER

2.2 16V
 X22SE
 X22XE
 Y22SE



Petrol 1.6 / 1.8 Twinport 16v (Belt)

MODELS :

Corsa D (07-08)
 Meriva (06-08)
 Astra G / H (03-08)
 Zafira B (03-08)
 Vectra C (06-08)
 Signum (06-08)

ENGINES :

1.6 16v
 Z16XEL
 Z16LER
 Z16LET

1.8 16v
 Z18XE1
 Z16XER
 Z18XER

AST-4995



Petrol 2.2 16v (Chain)

MODELS :

Astra G (00-06)
 Vectra B / C (00-08)
 Signum (03-08)
 Zafira A / B (00-08)
 Speedster / VX220 (00-06)

ENGINES :

Z22SE
 z22YH



AST-4766



Diesel 1.3 CDTi (Chain)

MODELS :

Agila (03-08)
 Corsa / Combo C (03-08)
 Tigra B (04-08)
 Meriva (04-08)
 Astra H (05-08)

ENGINES :

Z13DT
 Z13DTH
 Z13DTJ



AST-4770



Diesel 1,6D / 1,7D Opel Engines (Belt)

MODELS :

Astra (86-91)
 Astra-F + G (91-98)
 Ascona-C / Cavalier (86-88)
 Vectra A (89-95)

ENGINES :

16DA
 17D
 17DR
 17DTL



AST-4350G



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4150 Flywheel Holding tool





Diesel 1.9D CDTi (Belt)

AST-4775

MODELS :

Astra H (04-07)
Vectra C (04-07)
Signum (04-07)
Zafira B (05-07)

ENGINES :

Z19DT
Z19DTH
Z19DTL



Diesel 1.9D / DTi (Belt)

AST-4390

MODELS :

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

ENGINES :

F8Q
F9Q770



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

AST-4760B

MODELS :

Vivaro (01-08)
Movano (00-08)

ENGINES :

1.9D (F9Q)	2.2D (G9T)	2.5D (G9U)	
760	720	630	724
762	772	632	730
770	750	650	750
772		720	754
774			



Diesel 2.0 dCi (Chain)

AST-4975

MODELS :

Vivaro (07-08)

ENGINES :

M9R
780
782
784



Diesel Valve Clearance Adjustment

AST-3110A

AST-3110A Valve Shim Adjuster depresses the valve lifter and spring to allow the adjustment shim to be removed and replaced.

MODELS :

1.5D/T & 1.7 DT (Isuzu) s.o.h.c.

ENGINES :

4EC1
E441

T-4EC1
TC-4EE1





Diesel 2.0DTI / 2.2DTI (Chain)

AST-4480

MODELS :

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

ENGINES :

2.0D	2.2D
X20DTH	X22DTH
X20DTL	Y22DTH
Y20DTH	Y22DTR
Y20DTL	

if removing
the pump you
will also need



Diesel 2.5D Turbo (Chain)

AST-4555A

MODELS :

Omega - B (01-03)

ENGINES :

Y25DT



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4553

pump remover/sprocket retainer



Diesel 2.5D Turbo (Chain)

AST-4411

MODELS :

Omega - B (94-01)

ENGINES :

X25DT



With this kit you will also need AST4415 (Tensioner Rail Lever)

AST-4415 Tensioner rail lever



Diesel 2,5D / 2,8D Turbo (Belt)

AST-4865

MODELS :

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

ENGINES :

2,5D S8U
770 772
2,8D S9w
700 702





Petrol 1.4 to 2.0 16v Twin Cams (Belt) - K4J / K4M / F4P / F4R

AST-4960

MODELS :

Clio II (99-06)
Clio III (05-09)
Modus (04-09)
Megane (99-03)
Megane II (02-09)
Scenic (99-03)
Grand Scenic / Scenic II (03-09)

Trafic (01-09)
Laguna (98-01)
Laguna II (01-07)
Avantime (00-03)
Grand Espace / Espace (02-09)
Vel Satis (00-07)
Kangoo (01-09)



ENGINES :

1.4 16v (K4J)

700/710/711/712/713/714/715/730/732/
734/740/750/770/780

1.6 16v (K4M)

700/701/704/706/707/708/709/710/711/
712/714/716/718/720/724/730/732/734/
736/740/742/743/744/745/746/748/750/
752/753/754/760/761/762/764/765/766/
768/776/782/788/790/791/794/800/801/
802/804/812/813/830

1.8 16v (F4P) and 2.0 16v / Turbo F4R

These engines may require the crankshaft gear replaced and camshaft sprockets released due to updated timing belt replacement procedures.

These procedures require the use of **AST-4923 Locking Device**

See engine codes below.
Diesel 1.5 dCi K9K



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4923 Camshaft Sprocket Locking Device

Engine camshaft sprocket locking device
Updated timing belt replacement procedures for the engines detailed below, require examination of the crankshaft to determine acceptance of the new crank gear with integral Woodruff key and release of the camshaft sprocket bolts requiring use of AST-4923 Locking Device.

ENGINES :

1.8 16v (F4P)
2.0 16v (F4R)



WITH THIS KIT YOU WILL ALSO NEED ... AST-4623 Camshaft Sprocket Locking Tool

AST-4623 is used to hold the camshaft sprockets whilst releasing centre bolts. Sprockets need to be free to turn on camshafts if timing adjustment is necessary.

MODELS :

1.4 and 1.6 16V Engines

ENGINES :

K4J K4M



Petrol 2.0 16v IDE - F5R (Belt)

AST-4860

MODELS :

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

ENGINES :

F5R
700
701
740



Direct
Injection
Engines



Petrol 1.2 to 2.2 (Belt) D4F / D7F / E7F / E7J / F3P / F7P / F3R / J7R / F7R / J7T

AST-4390

MODELS :

Twingo (96-07)
Clio (90-98)
Clio II (98-09)
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 (98-09)
Traffic (89-00)
Master (00-03)
Clio III (05-09)
Modus (04-08)

ENGINES :

1,2 - D7F : 700/701/710/720/722/726/730/744/746/764/766
1,2 - E7F : 700/704/706/750/
1,2/16v/s.o.h.c - D4F : 702/706/708/712/714/716/722/728/730/740/764
1,4 - E7J : 601/624/626/634/635/680/700/706/710/711/716/718/719/720/
724/726/728/740/742/745/754/756/757/764/770/771/773/780
1,8/F3P : 670/682/700/704/706/708/710/712/714/720/724/755/758/760/
1,8/16v - F7P : 704/722
2,0 F3R : 611/722/723/728/729/750/751/752/791/796/797/798
2,0 - J7R : 732/733/734/735/768
2,0/16v - F7R : 710/714
2,2 - J7T : 600/760/761/762/766/772/780/782



WITH THIS KIT YOU WILL ALSO NEED ...
AST-3398 Flywheel Holding tool

ENGINES :

F3P

F3R
E7J
F7P

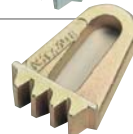
F7R
F8M and F8Q (early)



WITH THIS KIT YOU WILL ALSO NEED ...
AST-4356 Flywheel Holding tool

ENGINES :

D7F



Petrol 3.0 24v V6 L7X (Belt)

AST-4580

MODELS :

Laguna (97-01)
Laguna II (01-07)
Safrane (96-01)
Espace (98-02)

ENGINES :

L7X 700/701/727/731



Petrol 2.0 16V / 2.5 20V N7Q/N7U (Belt)

AST-4387

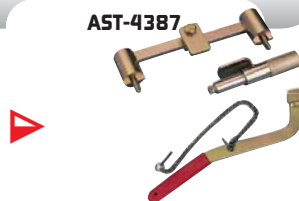
MODELS :

Laguna (96-99)
Safrane (96-01)

ENGINES :

2,0 16v (N7Q)
704
710
711.

2,5 20v (N7U)
700
701





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

AST-4760B

MODELS :

Clio II (01-06)
Clio III (05-09)
Modus (04-09)
Twingo (07-09)

Megane (99-03)
Megane II (02-09)
Scenic (99-03)
Scenic II (03-09)
Laguna (99-01)
Laguna II (04-07)

Avantime (05-07)
Espace (00-09)
Kangoo (00-09)
Trafic (01-09)
Master (00-06)
Logan (05-09)

ENGINES :

1.5dC / K9K

700 702 704 706 710 712 714 716 718 722 724 728 729 732 734 740 750
752 760 762 764 766 768 802 804 806

1.9 dCi

650 664 670 674 718 732 733 788 740 748 750 752 754 758 759 760 762
772 774 790 796 800 803 804 808 812 816 818 820

2.2 dCi

600 605 700 702 703 706 707 710 712 720 722 742 743 750

2.5dCi

720 724 726 730 750 754



Diesel 1.6D / 1.9D / Turbo DTI / 2.1D Turbo / 2.2D / Turbo (Belt) F8M / F8Q / F9Q / J85 / G8T

AST-4390

MODELS :

Clio (90-98)
Clio II (98-03)
R19 (91-96)
Megane (95-03)

Megane Scenic (96-99)
Scenic (99-03)
Laguna (94-01)
Safrane (91-01)
Espace (91-02)
Extra / Rapid / Express

(92-02)
Kangoo (98-03)
Traffic (95-00)
Master (00-03)

ENGINES :

1.6D - F8M

736/760

1.9D - F8Q

600/606/620/622/624/630/632/640/644/646/648/662/672/678/
680/682/684/692/696/706/714/730/732/742/744/764/706/776

1.9D Turbo - F8Q

610/720/722/740/768/784/786/788

1.9dTi - F9Q:

710/716/717/730/731/734/736/744/770/780/782

2.1D Turbo - J85

620/621/622/758/760/776/778

2.2D/Turbo - G8T

714/716/740/752/760/790/792/794



WITH THIS KIT YOU WILL ALSO NEED ...

AST-3398 Flywheel Holding tool



ENGINES :

F3R
E7J
F3P

F7P

F7R
F8M and F8Q (early)



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4356 Flywheel Holding tool



ENGINES :

F8Q
F9Q



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4357 Flywheel Holding tool



ENGINES :

G8T





Diesel 2.0 dCi (Chain)

MODELS :

Megane II (07-09)
Scenic/Grand Scenic (08-09)
Laguna II (01-05)
Vel Satis (05-09)
Espace/ Grand Espace (08-09)
Koleos (08-09)
Trafic (07-09)

ENGINES :

2.0 dCi M9R	742	803
	700	805
	721	830
	722	832
	724	833
	740	802

AST-4975



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

MODELS :

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

ENGINES :

2.5D - S8U	2.5D Turbo - S9U	2.8dCi - S9W
720 722 730 731 742	700 702 704 714 740	206 208 212
748 750 752 770 772	2.8 dTi S9W	
780 782	700 702	

AST-4865



RAM system 1,9D F9Q

ENGINES :

F9Q

AST-4389



WITH THIS KIT YOU WILL ALSO NEED ...
AST-4374 RAM Sprocket Remover



Petrol 1.4 to 2.0 16v (Belt)

MODELS :

Rover :
200/Coupe/Cabrio (92-99)
400/ Tourer

(90-99)
600 (93-99)
800 (91-99)
25 (99-05)
45 (99-09)

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
F18A-3
2.0/Turbo
F20Z1
F20Z2

Rover 20T4
2.3
H23AZ

AST-4386



WITH THIS KIT YOU WILL ALSO NEED ...
AST-4844 Sprocket Holding tool with interchangeable



WITH THIS KIT YOU WILL ALSO NEED ...
AST-4307 Flywheel Holding tool





Petrol 2.0 and 2.5 KV6 (Belts)

AST-4605

MODELS :

Rover

45 (99-05)

75 (99-05)

825 (96-99)

MG

ZR (04-05)

ZS (01-05)

ZT / ZT-T (01-05)

ENGINES :

KV6 2.0 and 2.5



For Rover 45, 75 and MG applications you will also need...
AST-4614 Crankshaft Pulley Holding Tool



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

AST-4386

MODELS :

100 (95-98)

218D (91-95)

418D (94-97)

ENGINES :

1.5D

TUD5 (VJY/VJZ)

1.8D / 1.9D

XUD7TE (A8A)

XUD9 (D9B)



WITH THIS KIT YOU WILL ALSO NEED ...
AST-4359 Flywheel Holding tool 100

ENGINES :

1.5D



Diesel 2.0D Turbo (Belt)

AST-4406A

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



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4844 Sprocket Holding tool with interchangeable Pins



Diesel 2.0D CDTi (Chain)

AST-4555A

MODELS :

Rover

75 (99-05)

MG

MG ZT (01-05)

ENGINES :

M47R



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4554 Pump remover / sprocket retainer

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





Petrol 1,8i (Belt)

MODELS :
9-3 (03-08)

ENGINES :
Z18XE



AST-4620



Diesel 1.9D TiD (Belt)

MODELS :
9-3 (04-08)
9-5 (05-08)

ENGINES :
Z19DT
Z19DTH



AST-4775



Diesel 2.2 TiD (Chain)

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

ENGINES :
D223L



AST-4480



Petrol 1,0 / 1,2 (chain)

MODELS :
Wagon R+ (05-08)

ENGINES :
Z10XEP
Z12XEP



AST-4485



Diesel 1.3D DDiS (Chain)

MODELS :
Swift (04-08)
Ignis (03-08)
Wagon R (03-08)

ENGINES :
Z13DT



AST-4770





Petrol 1.2 6v / 12v (Chain)

MODELS :

Seat
Ibiza / Cordoba (02-08)
Skoda
Fabia (02-07)
VW
Polo (02-07)
Fox (05-08)
Eos (06-08)

ENGINES :

6v
AWY
BMD
12v
AZQW
BME

AST-4810



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4844 Camshaft sprocket holding tool with inter-changeable pins



Petrol 1.4 / 1.6 16v Fsi (Belt)

MODELS :

Audi
A2 (00-06)
Seat
Arosa (99-05)
Ibiza / Cordoba (99-08)

Leon (99-05)
Toledo (99-05)
Inca (00-04)
Skoda
Fabia (99-07)
Octavia (00-08)

VW
Lupo (98-05)
Polo (98-07)
Golf / Bora (97-08)
Beetle (01-08)
Caddy (99-08)

ENGINES :

1.4 16v	AQQ	BBZ	1.6Fsi	ATN
AFK	AUA	BCA	BAD	AUS
AHW	AUB	BKY	1.6 16v	AVY
AKQ	AXP	1.4 Fsi	AJV	AZD
APE	BBY	ARR	ARC	BCB

AST-4635



Petrol 1.4 / 1.6 Fsi (Chain)

MODELS :

Audi
A3 (03-07)
Skoda
Octavia II (04-08)
VW
Polo (02-08)
Golf (03-08)
Golf Plus (05-08)
Jetta (06-08)
Passat (05-08)
Touran (03-07)

ENGINES :

1.4Fsi
AXU
BKG
BLN
1.6Fsi
BAG
BLF
BLP
BTS

AST-4845



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4844 camshaft sprocket holding tool



WITH THIS KIT YOU WILL ALSO NEED ...

AST-3054-10 Dti (dial gauge) for TDC position tool



**Petrol 1,8 / 1,8T with Automatic Tensioner (Belt) Chain in Head****AST-4808**

For 1,8/T engines with Adjustable Tensioner Roller -use AST4841 Set (refer to engine codes)

MODELS :**Audi,**
A3, S3, A4, A6, TT**Seat**
Ibiza/Cordoba, Leon,
Toledo, Alhambra
Skoda
Octavia**VW**
Golf/Bora, Beetle,
Passat**ENGINES :**

ADR, AEB, AFY, AGN, AGU, AJH, AJL, AJP, AJQ, AMK, AMU, ANB, APG, APH, APP, APT, APU, APX, APY, AQA, AQX, ARG, ARX, ARY, ARZ, ATC, ATW, AUM, AUQ, AVC, AWC, AWP, AWU, AWV, AYP, BAM, BEA, BFV, BKF, BNU, BVP, BVR

**Petrol 1.8 / 1.8T 2.0 16v With Adjustable Tensioner Roller (Belt)****AST-4841****MODELS :****Audi**
A4 [01-08]
A6 [01-05]
Cabriolet [03-07]**Seat**
Ibiza [04-08]**Skoda**
Superb [02-08]**VW**
Polo [06-07]
Eos [06-07]
Passat [01-05]**ENGINES :**ALT
AMBAUG
AVJAWM
AWTBBU
BEXBFB
BJWBKV
BLZ**Petrol - 1.6 / 1.8 / 1.8T / 2.0 / 2.0 16v / 2.0FSi (Belt)****AST-4740****MODELS :****Audi**
80 [91-96]
A3 [96-08]
S3 [99-03]
A4 [95-08]
Cabriolet [94-08]
A6 [94-08]
TT [98-05]**Seat**
Arosa [98-05]
Ibiza/Cordoba [93-02]
Leon [99-05]
Altea [04-08]
Toledo [94-08]
Alhambra [95-04]
Inca [96-04]**Skoda**
Fabia [00-07]
Octavia [96-07]
Superb [02-08]**VW**
Lupo [99-06]
Polo/Classic [95-02]
Golf/Bora [94-08]
Beetle [99-08]
Passat [96-08]
Touran [03-08]
Sharan [95-08]
Caddy [95-06]
Transporter [90-08]**ENGINES :****1.6**
1F, ABM., ADA, ADP, AEH, AEK, AFT, AHL, AKL, AKS, ALZ, ANA, APF, ARM, AUR, AVU, AYD, BFQ, BFS, BFQ, BGU, BSE, BSF**1.8**
ABS, ADR, ADZ, AGN, AJP, APG, APT, APX, ARG**1.8T**
AEB, AGU, AJH, AJL, AJQ, AMK, ANB, APP, APU, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AVC, AWC, AWT, AWU, AUQ, AYP, BAM**1.8 16v**
ADL**2.0**
2E, AAC, AAE, ABF, ABK, ABT, ACE, ADY, AEG, AGG, AKT, APK, AQY, ATM, ATU, AWF, AWG, AXA, AZH, AZJ, AZL, AZM, BEH
2.0 16v
ABF, Petrol
2.0FSi/TFSi
AXW, AXH, BGB, BHD, BLR, BLY, BMB, BPJ, BPY, BWA**WITH THIS KIT YOU WILL ALSO NEED ...****AST-4741 Front End Support Guide Set - VAG**

Essential to extend front end to service position for access during belt replacement.

ENGINES :**Audi :**
A4
A6A5
A8**VW :**
Passat



Petrol 2.3 / 2.8 / 2.9 (Chain)

MODELS :

Seat

Toledo (99-05)
Alhambra (95-05)

VW

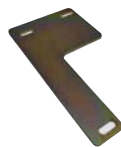
Golf (91-97)

Vento (91-97)
Corrado (92-95)
Passat (91-96)
Sharan (95-00)
Transporter (96-03)

ENGINES :

AAA
ABV
AES
AGZ
AMY
AQN

AST-4648



Petrol 2.6 / 2.8 V6 (Belt)

MODELS :

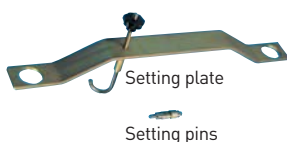
80 (90-96)
A4 (94-99)
Coupe (91-96)
Cabriolet (91-00)
A6 (94-97)
A8 (94-00)

ENGINES :

2.6V6 - ABC
2.8 V6 - AAH



AST-4401 - AST-4402



Setting plate

Setting pins



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

MODELS :

Audi

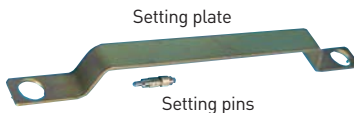
A4 (94-08)
A6 (95-05)
Allroad (00-05)
A8 (96-02)

Skoda

Superb (02-08)
VW
Passat (96-05)



AST-4401 - AST-4403



Setting plate

Setting pins

ENGINES :

2.4 V6 30v

AGA
AJG

ALF

ALW

AML

AMM

APC

APS

APZ

ARJ

ARN

ASM

BDV

2.7 V6 30v

AGB

AJK

ASJ

ARE

AZA

AZB

AZR

BES.

2.8 V6 30v

ACK

AEJ

AGE

AHA

ALG

AMX

APR

AQD

ATQ

ATX

BBG.



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4741 Front End Support Guide Set



Petrol 3.7 / 4.2 V8 (Belt)

MODELS :

Audi

A6 Quattro (99-05)
S6 (00-04)
A8 (99-06)
S8 (99-03)
RS4 (03-05)
RS6 (03-04)

VW

Touareg (03-06)
Phaeton (03-04)

ENGINES :

3.7 V8

AKC

AQC

BFL

4.2V8

ANK

AQF

AQH

AQJ

ARS

ARU

ASG

AWN

AVN

AVP

AUW

AXQ

BCY

BFM

BGH

BHX



AST-4827



WITH THIS KIT YOU WILL ALSO NEED ...

AST-4741 Front End Support Guide Set



**Petrol 3.0 V6 30v****MODELS :**

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

ENGINES :

ASN
 AVK
 BBJ

**AST-4940****Diesel Pump Duse (Unit Injection)
1.2, 1.4, 1.9, 2.0 Tdi PD (Belt)****AST-4840****MODELS :****Audi**

A2 (00-06)
 A3 (01-08)
 A4 (99-08)
 A6 (98-08)

Seat

Arosa (99-05)
 Ibiza / Cordoba (02-08)
 Altea (04-08)
 Leon (00-08)
 Toledo (04-08)
 Alhambra (99-08)

Skoda

Fabia (00-07)
 Roomster (07-08)
 Octavia (00-08)
 Superb (02-08)

VW

Lupo (98-05)
 Polo (98-07)
 Fox (05-08)
 Golf / Bora (98-08)
 Golf Plus (05-08)

Jetta (05-08)
 Beetle (01-08)
 Passat (98-08)
 Touran (03-08)
 Sharan (99-08)
 Caddy (03-08)
 Transporter (03-08)



**Now covers 2.0TDI
 PD 16v engines +
 INCLUDES NEW
 OVAL crankshaft
 Locking Tool**

ENGINES :**1.2TDi PD**

ANY, AYZ

1.4TDi PD

AMF, ATL, BAY, BHC, BNM, BNV

1.9TDi PD

AJM, AMG, ANU, ARL, ARX, ASZ, ATD, ATJ, AUY, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, BEW, BJB, BKC, BKE, BLS, BLT, BPX, BRB, BRM, BRU, BSV, BSV, BTB, BVK, BXE

2.0TDi PD

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

**WITH THIS KIT YOU WILL ALSO NEED ...****AST-4741 Front End Support Guide Set**

essential to extend front end to service position for access during belt replacement.

ENGINES :**Audi :**

A4
 A6
 A5
 A8

VW :

Passat

**WITH THIS KIT YOU WILL ALSO NEED ...**

AST-4844 Camshaft sprocket holding tool with interchangeable pins



**Diesel - 1.7 and 1.9 D / DT / Sdi / Tdi (Belt)****AST-4740****MODELS :****Audi**

80 (91-96)
A3 (96-08)
S3 (99-03)
A4 (95-08)
Cabriolet (94-08)
A6 (94-08)
TT (98-05)

Seat

Arosa (98-05)

Ibiza/Cordoba (93-02)

Leon (99-05)
Altea (04-08)
Toledo (94-08)
Alhambra (95-04)
Inca (96-04)

Skoda

Fabia (00-07)
Octavia (96-07)
Superb (02-08)

VW

Lupo (99-06)
Polo/Classic (95-02)
Golf/Bora (94-08)
Beetle (99-08)
Passat (96-08)
Touran (03-08)
Sharan (95-08)
Caddy (95-06)
Transporter (90-08)

**ENGINES :****1.7 SDi**

AHB
AHG
AKU
AKW

1.9D / Turbo

1Y
AAZ
ABL
AEF

1.9SDi

AEF
AEY
AGD
AGP

AQM

ASX
ASY
AYQ

1.9TDi

1Z
AAZ
AFF
AFN

AGR

AHF
AHH
AHU
ALE

ALH

ASV
AVG

**WITH THIS KIT YOU WILL ALSO NEED ...**

AST-4741 Front End Support Guide Set -

**WITH THIS KIT YOU WILL ALSO NEED ...**

AST-4844 Camshaft sprocket holding tool with interchangeable pins

**Diesel 2.5TDi V6 (Belt)****AST-4450****MODELS :****Audi**

A4 (97-07)
A6 (97-05)
A8 (97-02)
Allroad (00-05).

Skoda

Superb (02-08).

VW

Passat (98-05)

ENGINES :

AFB

AKE

AKN

AYM

BAU

BCZ

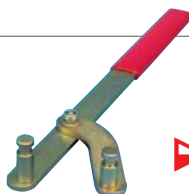
BDG

BDH

BFC

**WITH THIS KIT YOU WILL ALSO NEED ...**

AST-4394 Camshaft Sprocket Holding Tool





Petrol 1.6 16v. Twin Cam (Belt)

MODELS :

S40 [04-08]
V40 [04-08]

ENGINES :

B4164S3



AST-4404C



Petrol 1.6 / 1.8 / 1.9 / 2.0 / 2.3 / 2.4 / 2.5 Twin Cams (Belt)

MODELS :

850 [92-97]
C70 [98-02]
S40 [96-04]
V40 [96-04]
S60 [01-05]
S70 [97-00]
S80 [99-05]

ENGINES :

B4164S	B4204T	B5234T3	B5244T
B416S2	B4204T3	B5234T4	B5244T3
B4184S	B4204T5	B523485	B5244T4
B4184S2	B45202FS	B5234T6	B5244T5
B4184S3	B5204FT	B5234T7	B5244T7
B4184S9	B5204T2	B5234T8	B5252FS
B418S10	B45204T3	B5234T9	B5254T
B4194T	B5204T4	B5244S	B5254T2
B4194T2	B5204T5	B5244S2	B5254T4
B4204S	B5234FS	B5244SG	
B4204S2	B5234FT	B5244SG2	



AST-4387



Diesel 1.6D (Belt)

MODELS :

S40 [04-08]
V50 [04-08]

ENGINES :

D4164T



AST-4735A



Diesel Ram Injection Timing

MODELS :

S40 [99-00]
V40 [99-00]

ENGINES :

1.9TD
D4192T2 (F8Q)



AST-4389



IF YOU REMOVE THE PUMP/SPROCKET YOU WILL ALSO NEED ...

AST-4374 RAM sprocket remover



Diesel 2.4 (Belt)

MODELS :

240 [79-85]
740 [88-92]
760 [83-91]
940 [90-94]
960 [90-93]

ENGINES :

D24
D24T
D24TIC



AST-4333



Website : www.sam.eu

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