

AST4620

Petrol Engine Twin Camshaft Setting/Locking Tool Kit



IMPORTANT: Always refer to the vehicle manufacturer's service instructions, or proprietary manual, to establish the current procedures and data. Product Information Sets detail applications and use of the tools with any general instructions provided as a guide only.

Applications:

VAUXHALL/OPEL Twin Cam Petrol 16v engines (EcoTec) in

AST3032-12 (Yellow)

Astra 2.0/Turbo	Vectra 1.6/1.8/2.0/Turbo
Omega 2.0/2.2	Frontera 2.2
Sintra 2.2	Zafira 2.0 Turbo
Speedster/VX220	

X18XE, C20SEL, X20XEV, Z20LET, Z20LEH, Z20LEL, Z20LER, X22SE, X22XE, Y22XE, Y22SE, Z22XE engines

AST3032-17 (Blue)

Corsa/Tigra 1.4/1.6/1.8	Astra 1.4/1.6/1.8
Meriva 1.6/1.8	Vectra 1.6/1.8
Zafira 1.6/1.8	Signum 1.8

X14XE, Z14XE, X16XEL, X16SEJ, X16XE1, Z16XE, Z16YNG, Y16XE, X18E1, X18XE1, Z18XE, Z18XEL engines

AST4353 Flywheel Holding Tool (Crank Pulley removal)

Applications as AST3032-17 with Aluminium Sump Pan

AST3032/20 Auxiliary Belt Tensioner Locking Pin

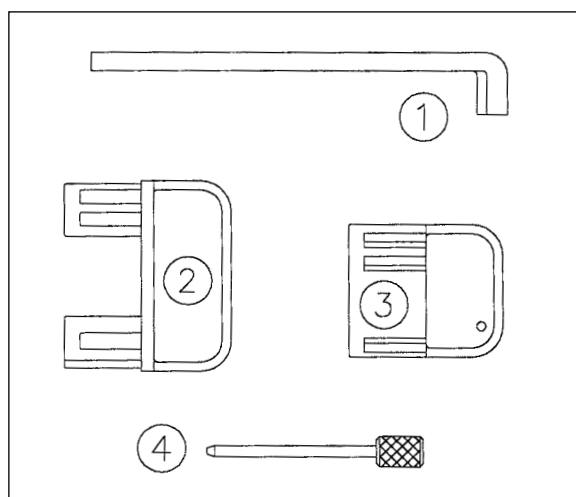
Applications as AST3032 17

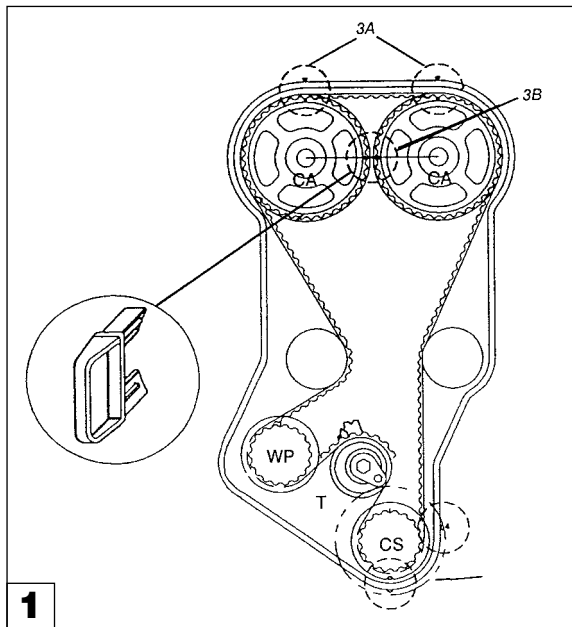
NOTE: AST4353 Flywheel Holding Tool and AST3032-20 Locking Pin are also used on s.o.h.c. applications

<ul style="list-style-type: none"> - Corsa-C 1.6 - Astra-G 1.6 - Vectra-B 1.6 	}	X16SZR & Z16SE engines
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Kit contents/spares

Item	Part Number	Description
1	AST4353	Flywheel Holding Tool (Crank Pulley removal)
2	AST3032-12	Camshaft Locking Tool (Yellow)
3	AST3032-17	Camshaft Locking Tool (Blue)
4	AST3032-20	Auxiliary Belt Tensioner Locking Pin
-	AST4620-84	Case + Insert





1 AST3032-12 and AST3032-17 Camshaft Locking Tools

These precision formed tools are colour-coded for model use identification. They are used on many models/engines and are inserted between the two camshaft sprockets, locating firmly into the gear teeth of the sprockets. This locks the sprockets in position and prevents them from rotating out of their timed position, when the timing belt is removed.

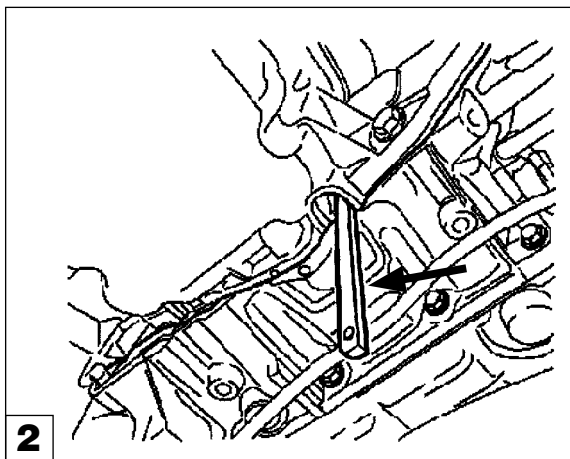
Before MY1999 the 1.8 16v. EcoTec engine was based on the 2.0 16v. and uses AST3032-12 Locking Tool. From MY1999 the 1.8 16v. is based on the 1.6 16v. and uses AST3032-17 Locking Tool.

It is essential to ensure the camshaft timing marks align before inserting a locking tool.

NOTE: Vehicle manufacturers put cam timing marks in various positions according to the model of engine. For example, they can be at the top of the sprockets aligned to the belt cover (3A), or aligned with the upper edge of the cylinder head (3B). It is important to clearly and correctly, establish the position of these timing marks. It is equally important to carefully check each vehicle manufacturers advice on belt tensioner position as this can differ between new and used belts.

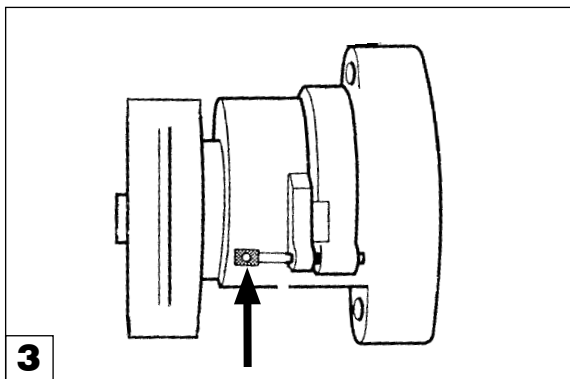
More AST Timing Tools for Vauxhall/Opel

1.6/1.7 Diesel Engine Setting/Locking Tool Kit –	see AST4350G
2.0/2.2 Diesel Engine Setting/Locking Tool Kit –	see AST4480
V6 Quad Cam Petrol Engine Setting/Locking Tool Kit –	see AST4145
1.0/1.2 Twin Cam Petrol Engine Setting/Locking Tool Kit –	see AST4485
EcoTec Twin Cam Petrol Engine Setting/Locking Tools –	see AST3032A Master Kit



2 AST4353 Flywheel Holding Tool (Crank Pulley removal)

On the 1.4, 1.6 and later 1.8 twin cam engines with Aluminium Sump Pans, timing belt replacement requires the removal of the crankshaft pulley using AST4353 Flywheel Holding Tool to ensure positive engine lock to counterhold the crankshaft whilst the pulley bolt is released and installed. All too often, a make-do method of 'jamming' the flywheel results in damage to gears and housing.



3 AST3032-20 Auxiliary Belt Tensioner Locking Pin

In order to remove the auxiliary belt from certain EcoTec 16v. twin cam engines the belt tensioner must be moved away from belt and retained back by inserting AST3032-20 Locking Pin through the hole in the tensioner and into the mounting bracket.

AST4353 Flywheel Holding Tool and AST3032-20 Locking Pin is also used on these s.o.h.c. applications.

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| <ul style="list-style-type: none"> – Corsa-C 1.6 – Astra-G 1.6 – Vectra-B 1.6 | } | X16SZR & Z16SE engines |
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