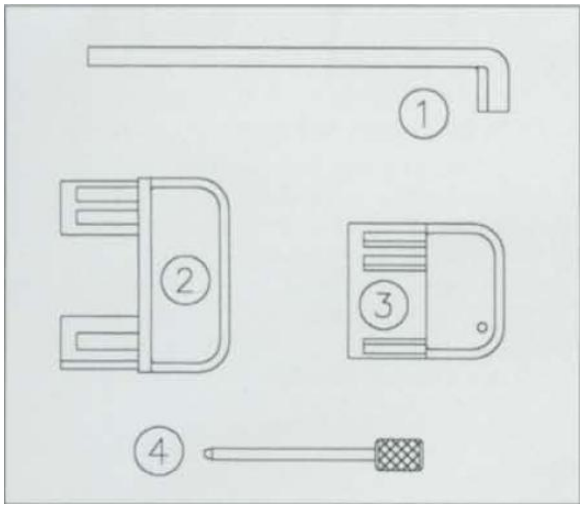
GAT4620

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:

GAT3032-12 (Yellow)

Astra 2.0/Turbo	Vectra 1.8/2.0/Turbo
Omega 2.0/2.2	Frontera 2.2
Sintra 2.2	Zafira 2.0 Turbo

X18XE, C20SEL, X20XEV, Z20LET, X22SE, X22XE, Y22XE, Y22SE, Z22XE engines

GAT3032-17 (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	

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

GAT3032/20 Auxiliary Belt Tensioner Locking Pin

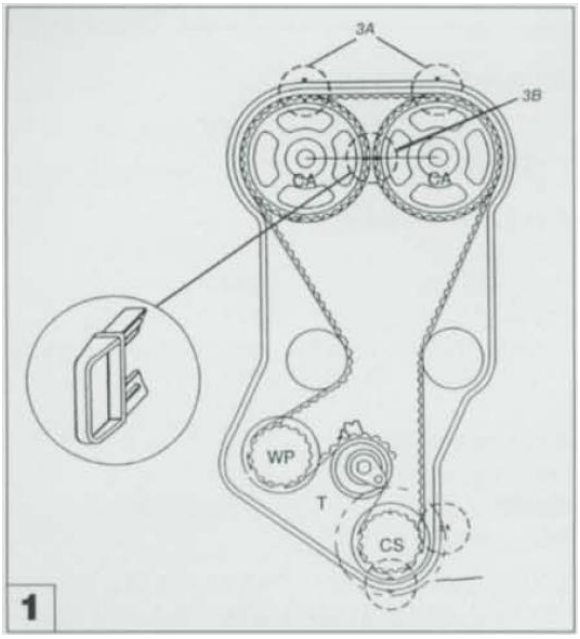
Applications as GAT3032-17

NOTE: GAT4353 Flywheel Holding Tool and GAT3032-20 Locking Pin are also used on s.o.h.c. applications

- Corsa-C 1.6
- Astra-G 1.6
- Vectra-B 1.6

} X16SZR & Z16SE engines

	Part number	Description
1	GAT4353	Flywheel Holding Tool
2	GAT3032-12	Camshaft Locking Tool (Yellow)
3	GAT3032-17	Camshaft Locking Tool (Blue)
4	GAT3032-20	Auxiliary Belt Tensioner Locking Pin
_	GAT4620-84	Case + insert



GAT3032-12 and GAT3032-17 Camshaft locking Tools

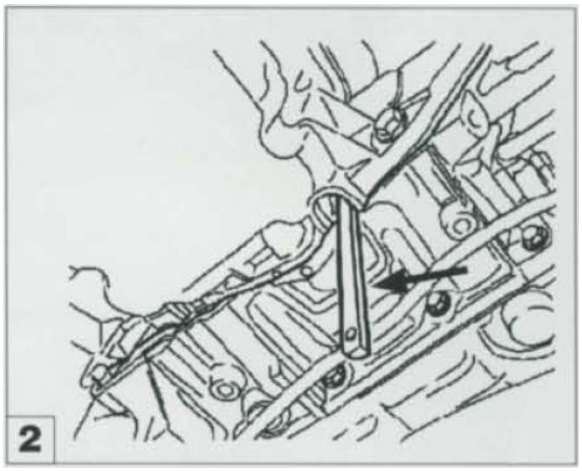
These precision formed tools are colour-coded for model use identification. They are used on many models/engines and are inserted between the two camshaft sprockets, locating firmly into the gear teeth of the sprockets. This locks the sprockets in position and prevents them from rotating out of their 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 GAT 3032-12 Locking Tool. From MY1999 the 1.8 16v. is based on the 1.6 16v. and uses GAT3032-17 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.

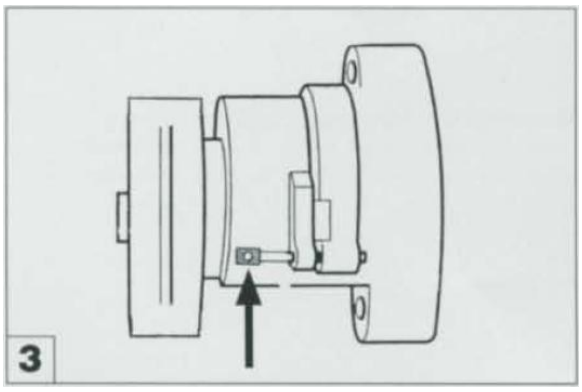
More GATES Timing Tools for Vauxhall/opel

1.6/1.7 Diesel Engine Setting/Locking Tool Kit	See **GAT4350G**
2.0/2.2 Diesel Engine Setting/Locking Tool Kit	See **GAT 4480**
V6 Quad cam Petrol Engine Setting/Locking tool Kit	See **GAT 4145**
1.0/1.2 Twin cam Petrol Engine Setting/Locking tool Kit	See **GAT 4485**
EcoTec Twin cam Petrol Engine Setting/Locking tool Kit	See **GAT 3032A Master Kit**



GAT4353 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 GAT4353 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.



GAT3032-20 Auxiliary Belt Tensioner Lock 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 GAT3032-20 Locking Pin through the hole in the tensioner and into the mouting bracket.

GAT4353 flywheel Holding Tool and GAT3032-20 Locking Pin is also used on these s.o.h.c. applications

- Corsa-C 1.6
- Astra-G 1.6
- Vectra-B 1.6

} X16SZR & Z16SE engines