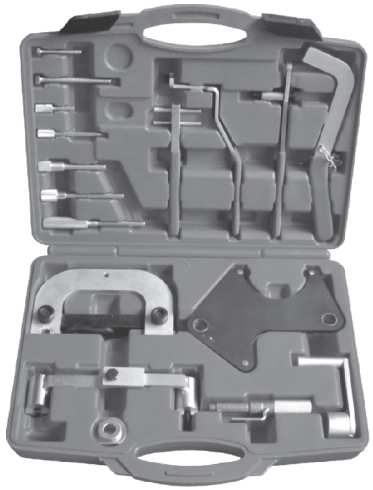
NEILSEN®

TIMING TOOL KIT-RENAULT CT3152



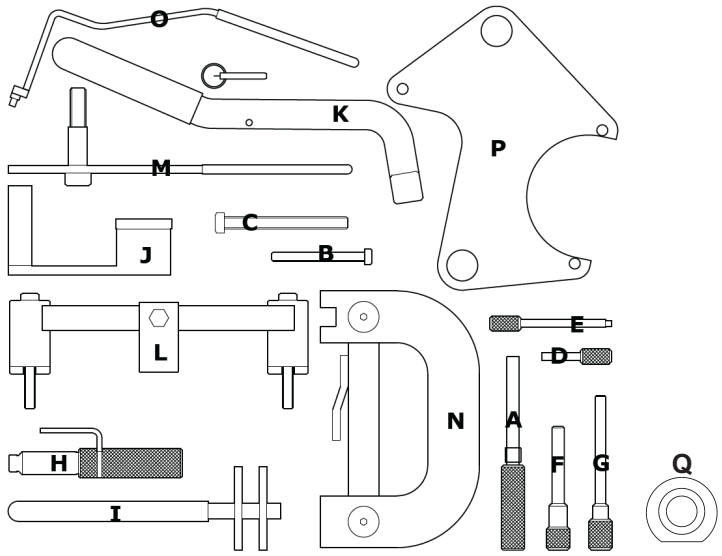
IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THE TOOL CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

- Disconnect the battery earth leads(check radio code is available).
- Remove spark or glow plugs to make the engine turn easier.
- Do not use cleaning fluids on belts, sprockets or rollers.
- Always make a note of the route of the auxiliary drive belt before removal.
- Turn the engine in the normal direction (clockwise unless stated otherwise).
- Do not turn the camshaft, crankshaft or diesel injection pump once the timing chain has been removed (unless specifically stated).
- Do not use the timing chain to lock the engine when slackening or tightening crankshaft pulley bolts.
- Do not turn the crankshaft or camshaft when the timing belt/chain has been removed.
- Mark the direction of the chain before removing.
- It is always recommended to turn the engine slowly, by hand and to re-check the camshaft and crankshaft timing positions.
- Crankshafts and Camshafts may only be turned with the chain drive mechanism fully installed.
- Do not turn crankshaft via camshaft or other gears.
- Check the diesel injection pump timing after replacing the chain.
- Observe all tightening torques.
- Always refer to the vehicle manufacturer's service manual or a suitable proprietary instruction book.
- Incorrect or out of phase engine timing can result in damage to the valves.
- It is always recommended to turn the engine slowly, by hand, and to re-check the camshaft and crankshaft timing positions.

Instruction Manual

2. PARTS LIST



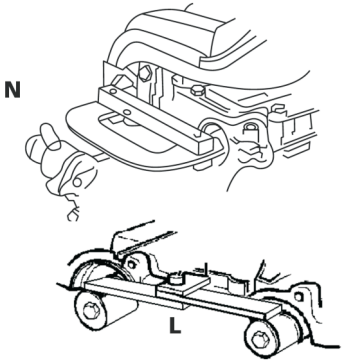
Ref	Description
A	Crankshaft Timing Pin
B	Locking Screw
C	Locking Screw
D	Flywheel Locking Pin
E	Injection Pump Setting Pin
F	Flywheel Locking Pin
G	Flywheel Locking Pin
H	Flywheel Locking Pin
I	Tension Wrench
J	Tensioner Adjuster
K	Tensioner Adjuster
L	Camshaft Locking Tool
M	Tensioner Adjuster
N	Camshaft Locking Tool
O	Tensioner Adjuster
P	Camshaft Sprocket Alignment Tool
Q	Washer

Camshaft and Injection Pump Pulley Timing Pin

These are generally used to lock the correct timing position by being inserted through the camshaft sprocket into a matching hole in the cylinder head.

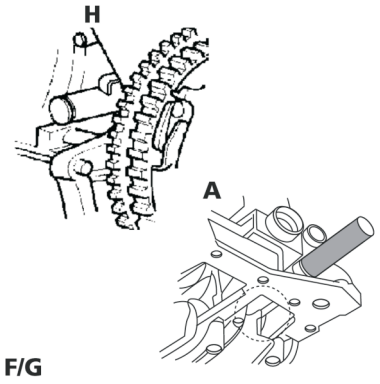
Camshaft Alignment Setting Tools

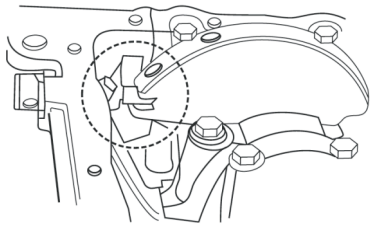
These are generally used to lock the correct timing position by being inserted into a location slot in the end of the camshaft and aligning the camshaft in relation to the cylinder head and each other.



Crankshaft Timing Pins

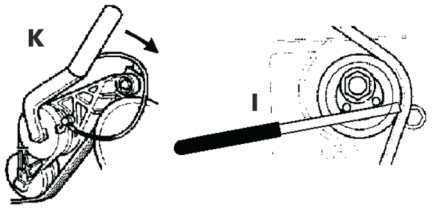
There are four different pieces included in this set. As with the camshaft timing pin, they are inserted through the engine block and used to position the crankshaft to achieve the correct timing position of the first cylinder. It is important that these pieces are used to set the timing position, but are not to be used to lock the flywheel.

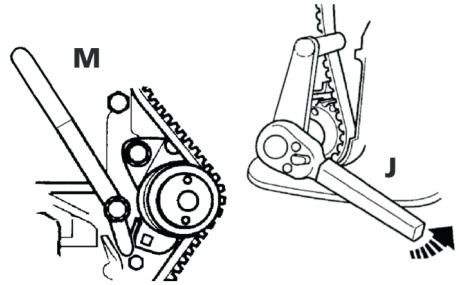




Tensioning Tools

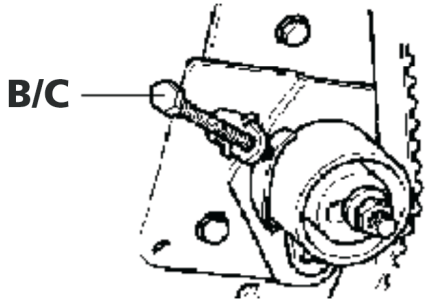
There are five types included in this set, which enable the correct tension to be applied to the timing belt.





Tensioning Adjustment Screws

There are two types included in this set, which enable the correct tension to be applied to the timing belt.



Miscellaneous Tools

The Camshaft Pulley Alignment Tool (P) is used to lock the camshaft pulleys.
This removes the need to loosen a pulley and split the joint. The original fixing screws are used to retain this tool.