

# VKM 15216 - VKPC 85624

## Technical Bulletin – March 2012



CHEVROLET, DAEWOO, OPEL, SAAB, VAUXHALL



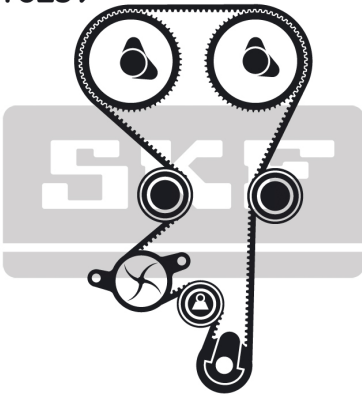
Fitting recommendations



CAR MAKER	MAIN MODEL	ENGINE
CHEVROLET	Lancetti, Nubira, Optra	1.8 16V
DAEWOO	Lancetti, Nubira	1.8 16V
OPEL	Astra, Corsa, Meriva, Tigra, Vectra, Zafira	1.4 16V, 1.6 16V, 1.8 16V
SAAB	9-3	1.8 16V
VAUXHALL	Astra, Corsa, Meriva, Tigra, Vectra, Zafira	1.4 16V, 1.6 16V, 1.8 16V

For detailed applications, please refer to the latest SKF catalogue.

### T0139



The correct fitting of the VKM 15216 tensioner is very critical and the SKF fitting instructions contained in the SKF Timing belt kits must be followed (see last page for kits concerned by this technical bulletin).

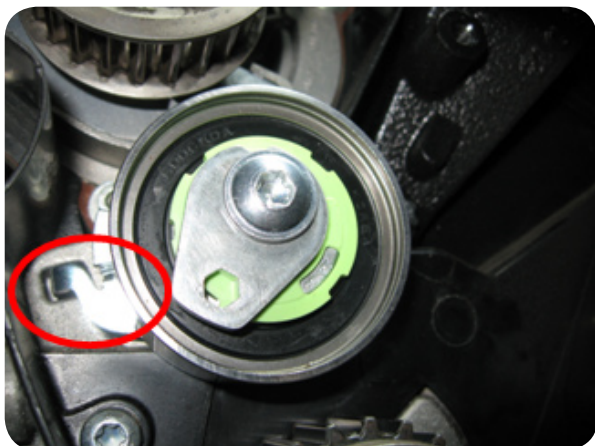
The tightening torque of the tensioner bolt (supplied with the tensioner) must be strictly adhered to – If the fitting instructions are not followed correctly, the tensioner back plate, the bolt or the water pump could be damaged or in severe cases even break.



Over-tensioning the belt system will cause failure of the water pump first - as this component is the most affected by incorrect fitting.

One sign of overtension is an audible noise coming from the water pump, quite often experienced after only a few kilometers of operation.





picture 1



picture 2

## Fitting recommendations

1. Check that the water pump is correctly oriented. The marker on the pump body must be aligned with that on the engine block.
2. When fitting the VKM 15216 tensioner, check if the positioning pin is engaged properly in the slot in the engine block (see *picture 1*).
3. Pre-setting: Align the moving indicator with the right-hand edge of the plate.  
**Note:** the moving indicator **must** not extend beyond the right-hand edge of the plate. Lock the tensioner in this position and turn the engine 2 revolutions.
4. Turn the dial clockwise to align the moving indicator on to the “NEW” notch on the plate of the tensioner roller (see *picture 2*).
5. Tighten the tensioner bolt with the corresponding torque (this is dependant on the vehicle application (see below)).
6. Turn the engine a further 2 revolutions.
7. Check the adjustment of the tensioner – if the markers are not in line, restart the setting operation.



### VKM 15216

CHEVROLET  
DAEWOO  
OPEL  
SAAB  
VAUXHALL

### Tightening torque

25 Nm  
25 Nm  
20 Nm  
20 Nm  
20 Nm





Examples of a damaged water pump:

**Observed symptom/effect/problem:**

- Failure of the water pump pulley.

**Likely root cause:**

- Over-tensioning of the timing tensioner.
- Incorrect fitting of the timing tensioner.

**Kits covered by this Technical Bulletin**

VKM kits	VKMA kits	VKMC kits	VKMS kits	VKPC kits
VKM 15216	VKMA 05150	VKMC 05150-1	VKMS 05150	VKPC 85624
	VKMA 05152	VKMC 05150-2	VKMS 05152-1	
	VKMA 05156	VKMC 05150-3	VKMS 05154-1	
		VKMC 05152-1	VKMS 05154-2	
		VKMC 05152-2	VKMS 05154-3	
		VKMC 05156-1		
		VKMC 05156-2		
		VKMC 05156-3		

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