

# Installation Instructions: Automatic Belt Tensioner

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## WARNING:

**Do not disassemble tensioner. The automatic tensioner spring is an extremely powerful component that is continuously under preload. It can cause serious personal injury.**

**For safety, always disconnect battery and wear appropriate safety equipment before performing any work under the hood.**

1. Always install tensioner per vehicle manufacturer's guidelines.

Look for OE belt routing diagram located under hood or on front support panel. If unavailable, make simple sketch to aid reinstallation prior to belt removal.

2. Observe the method for lifting the tensioner away from the belt. Always use appropriate tools. Be careful that wrench socket or breaker bar is properly seated and positioned to allow clearance when tensioner reaches load (end) stop. Otherwise, your hand may be pinched or the tool may be trapped. Never cut or pry belt off while under tension.
3. Loosen the belt by lift the tensioner. Remove the belt. After removing the belt place the tensioner in end position.
4. Remove tensioner mounting bolt(s) and tensioner from engine.  
**Note: Unless supplied in box with tensioner, original equipment bolt(s) to be re-used for mounting.**
5. Ensure that tensioner mounting surface is clean and free of debris before installing new tensioner.
6. Install replacement tensioner with locating pin(s) into appropriate hole(s) and torque mounting bolt to recommended value. (M8 = 25Nm, M10 = 70Nm, M 12 = 115Nm).
7. Reinstall belt per original layout (repeat steps 2 thru 4).
8. **Belt tensioner with pin:**  
Use the installation tools. Tighten the tensioner and remove the pin. Take the weight slowly from the tensioner that the pulley carried forward the weight to the belt.
- 8.1 **Belt tensioner without pin:**  
Use the installation tools. Tighten the tensioner and put the belt to the tensioner. Take the weight slowly from the tensioner that the pulley carried forward the weight to the belt.
9. Ensure the belt is properly seated in all pulley grooves and routed correctly. Start engine for 30 seconds, shut off, and re-check that the belt is seated and tracking properly.

## SAFETY REMINDER:

**REMOVE ALL TOOLS FROM THE ENGINE AFTER THE BELT INSTALLATION IS COMPLETED.**

Bei sachgemäßer Montage entspricht der Riemenspanner den grundlegenden Sicherheitsanforderungen nach Anhang I der Richtlinie 98137 EG.