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BMW Mini Cooper S R52 R53 W11 Auxiliary Serpentine Drive Belt Changing Lever Lock Tensioner Tool Kit Instructions Guide



by x8rltd

The Problem

A specialist tool is required in order to remove the auxiliary belt.

The serpentine auxiliary belt is located in a very narrow & limited access section of the engine bay, making the belt very difficult to change without stripping major components from the engine. The belt is due to be changed every 60,000 miles (but should be replaced sooner if showing any signs of age or cracking). Or it may need to be removed to service components such as the

manufactured from Steel and is Bright Zinc plated, made in the UK for a lifetime guarantee.

The kit also comes with a tensioner pin retaining tool, this is basically a correctly sized screwdriver angled to the correct shape for easy retaining of the tensioner pin. A lot of kits on the market come with a small Allen key or pin, which can be very fiddly and tricky to push in. Our tool as it is the perfect shape, long and with a handle it makes install in the tensioner pin far easier.

supercharger, air conditioning compressor, water pump or alternator.

The solution up until now was to purchase one of the several tools available online, however they can either be very costly or come with many complicated components, or pins that are difficult to locate in to the tensioner, making changing the belt more difficult than it needs to be.

The Solution

Our tool can be used to easily release & replace the auxiliary belt

Our kit is simple to use, with the main changing tool being custom manufactured at the correct angles & comes with a soft, cushioned handle for ease of use. The tool is precision machined to the perfect shape to marry up to the tensioner, allowing you to push against the broadest section of the tensioner to release, rather than trying to locate and push against the tensioner in the two small holes in the tensioner. Our tool is

1 x Zinc plated Steel auxiliary belt changing tool

1 x Tensioner pin retaining tool

Vehicles affected

Supercharged MINI Cooper S Models:

BMW Mini Cooper S R52 convertible (2002-2008) BMW Mini Cooper S R53 (2000-2006) (Including JCW Models)

Supercharged BMW Mini engines with engine code W11

Will fit all variants with/without air conditioning

Associated part numbers

Poly V-Belt 11287545120

Tensioner 11287509476, 11288620210

Pulley 11287570810

BMW workshop tool 118410

You will receive:





Step 1: Strip the Drivers Side Wheel Arch

Remove the drivers side wheel.

Remove the wheel arch liner to expose the drive belt pulley, you should be able to inspect the belt for excessive wear & tear and also check the tension.



Step 2: Locate the Areas the Tools Fixes Onto

Locate the bolt that connects the tensioner to the supercharger (photo 1, bolt with arrow pointing to it)

Locate the pin that protrudes from the top of the tensioner (photo 2, pin in centre of photo)

We coloured ours in yellow with a marker pen for easy identification.



Step 3: Line Up Auxiliary Belt Tool

Use the X8R Mini Auxiliary Belt Tool by lining up the round hole on the tool with the tensioner bolt.

The hook on the top edge of the tool should align with the base of the tensioner (as seen in photo 3).





Step 4: Apply Pressure to Tool & Insert the Tensioner Pin Retaining Tool

Pull the handle on the tool towards you, this will pull the pin at the top of the tensioner further out of its socket, exposing two holes in the pin.

While pulling the tool, push the angled screwdriver into the second hole on the pin (closest towards you). This will jam the mechanism on the pin and unlock the tensioner.



Step 5: Replace the Belt

The belt is now slack and ready to remove and replace.

If you need any further guidance on this install or would like to purchase the parts shown please call us on +44 01843 446643 or email us at sales@x8r.co.uk. Please also check out our instruction guide on YouTube.

www.x8r.co.uk

Installation is carried out at installers risk, if unsure please contact us or a professional, X8R Ltd cannot be held responsible for any adverse result of installing this product or any injuries caused by use, if in doubt ask a professional. All images and texts are copyright X8R Ltd 2020.

