



**Haynes**  
shows you how

**BMW 3-Series and Z4 (99-05) Includes 2006 325ci/330ci Coupe and Convertible models Haynes Online Manual.**

## 6 Drivebelt - check and replacement

03:41

### Caution:

This video is for familiarization purposes only. Read below for specific information on your vehicle.

## Check

1 Due to their function and construction, the belts are prone to failure after a period of time, and should be inspected periodically to prevent problems.

2 The number of belts used on a particular car depends on the accessories installed. Drivebelts are used to drive the water pump, alternator, power steering pump and air conditioning compressor.

3 To improve access for belt inspection, if desired, remove the viscous cooling fan and cowl (if equipped) as described in Chapter 3 .

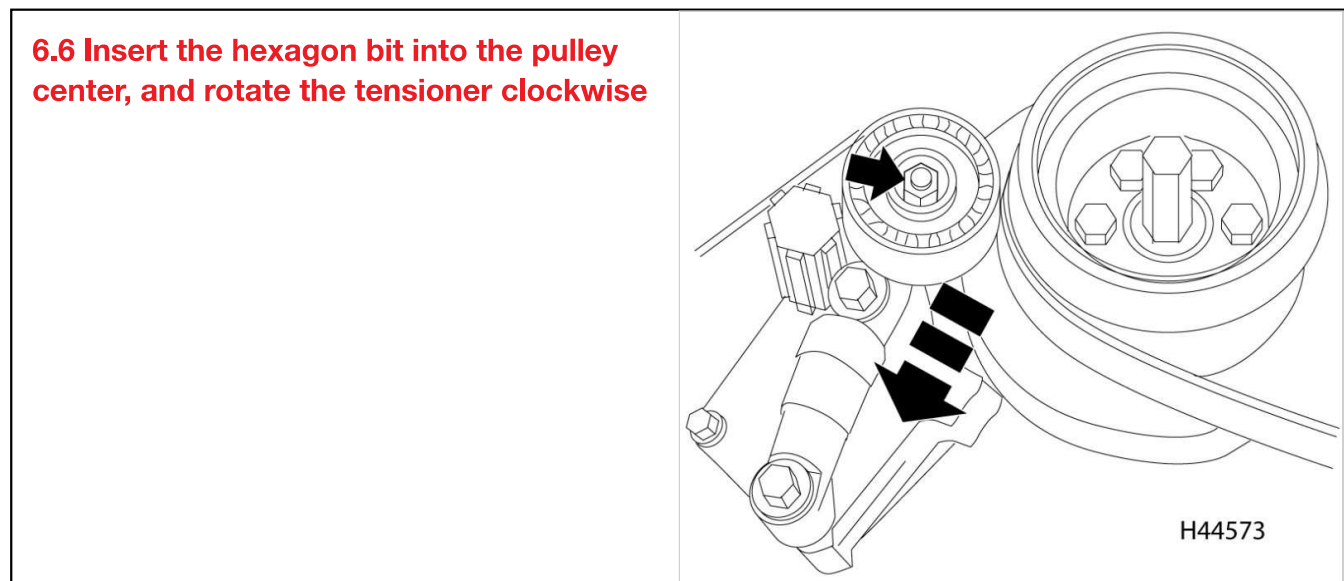
4 With the engine stopped, using your fingers (and a light if necessary), move along the belts, checking for cracks and separation of the belt plies. Also check for fraying and glazing, which gives the belt a shiny appearance. Both sides of the belts should be inspected, which means the belt will have to be twisted to check the underside. If necessary turn the engine using a wrench or socket on the crankshaft pulley bolt so that the whole belt can be inspected.

## Replacement

### Air conditioning compressor

5 Access is most easily obtained from under the car. If desired, raise the front of the vehicle and support securely on jackstands. Remove the screws and remove the engine splash shield (see [Section 25](#) ).

6 On models with a hydraulic tensioner, pry the cover from the center of the tensioner pulley. Engage a hexagon bit and extension bar with the tensioner bolt, and lever the tensioner clockwise (see illustration) . Slide the belt from the pulleys.



7 On models with a mechanical tensioner, using a wrench on the hexagon section of the pulley arm, rotate the tensioner clockwise, and remove the belt from the pulleys (see illustration) .

### 6.7 Rotate the pulley arm clockwise



8 On all models, lever the tensioner until the drivebelt can be installed around the pulleys, then release the tensioner. Make sure that the belt is centered on the pulleys and engages the grooves correctly.

9 Install the splash shield and lower the car to the ground.

## Water pump/alternator/power steering pump

10 Where applicable, remove the air conditioning compressor drivebelt as described previously in this Section.

11 If the drivebelt is to be re-used, mark the running direction of the belt before removal.

12 To improve access, remove the viscous cooling fan and shroud (if equipped) as described in [Chapter 3](#) .

13 Make a diagram of the routing of the drivebelt before removal.

14 Using a wrench on the hexagonal section of the pulley arm, rotate the tensioner clockwise, and remove the belt from the pulleys (see illustration) .

### 6.14 Rotate the tensioner clockwise and remove the belt



15 If the original belt is being reinstalled, observe the running direction mark made before removal.

16 Compress the tensioner, and engage the belt with the pulleys, ensuring that it is routed as noted before removal. Make sure that the belt is centered on the pulleys and engages the grooves correctly (see illustration)

### 6.16 Auxiliary drivebelt routing



17 Where applicable, install the viscous cooling fan and shroud with reference to [Chapter 3](#).

18 Where applicable, install the air conditioning compressor drivebelt as described previously in this Section.

© 2024 Haynes Manuals, Inc. Contact us