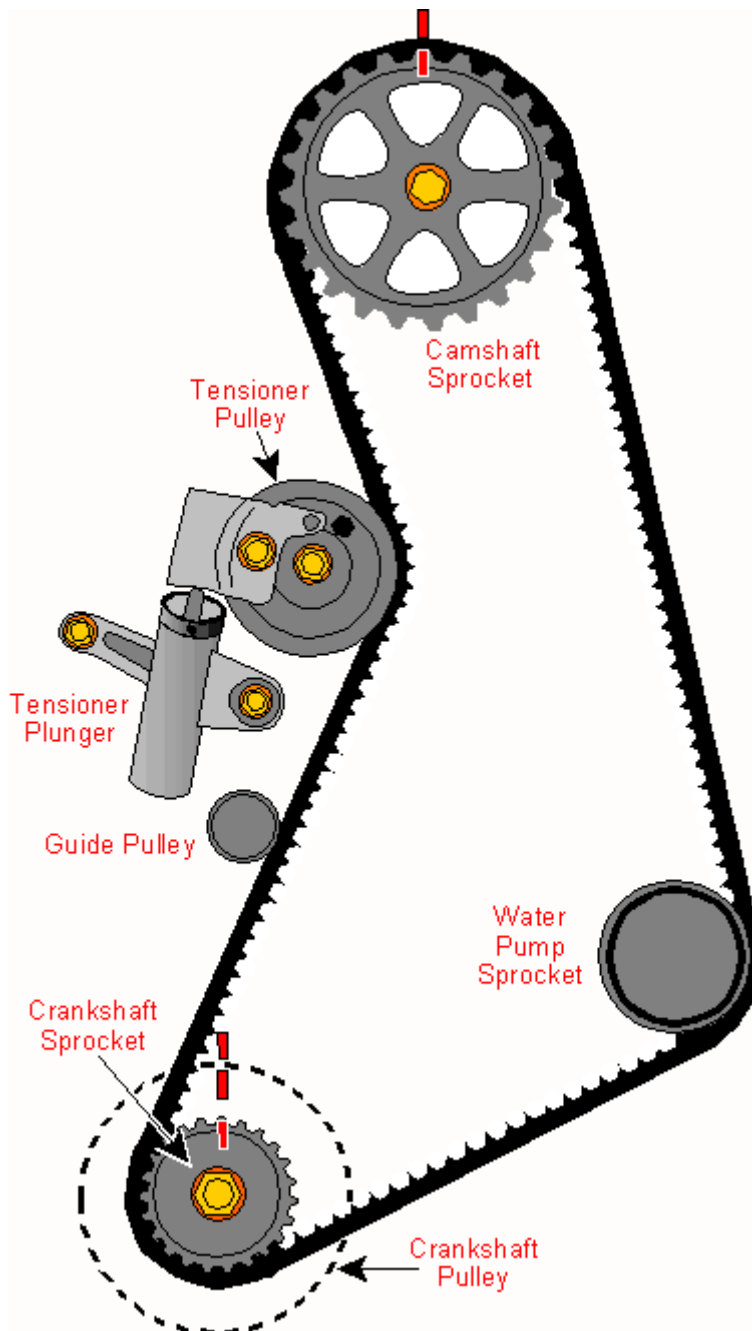


VOLKSWAGEN PASSAT 1.8L SOHC (ADR Engine) 1998-01 Timing Belt Installation

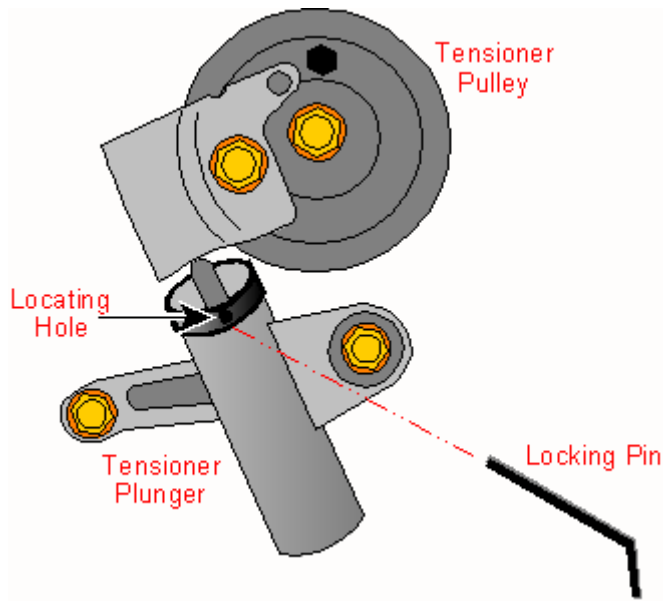
Timing Belt Diagram



Removal

1. Ensure Engine Coolant Temperature $>30^{\circ}\text{C}$, to enable Tensioner Piston compression.
2. Raise and Support Front of Vehicle.
3. Remove the Engine Undershield.
4. Remove the Front Bumper Bar.
5. Remove the Air Filter Ducting.
6. Remove the Front Panel Bolts for the Support Guides.
7. Install the Support Guides (Volkswagen Part Number: 3369)
8. Remove the remaining Front Panel Bolts.
9. Slide the Front Panel on the Support Guides.
10. Remove the Auxiliary Drive Belts.

11. Remove the Auxiliary Drive Belts Tensioner Assembly.
12. Remove the Upper Timing Belt Cover.
13. Turn Engine Clockwise to TDC on Number 1 Cylinder.
14. Ensure all Timing Marks are correctly aligned.
15. Remove the Crankshaft Pulley.
16. Remove the Lower Timing Belt Cover.
17. Insert an Allen Key into the Hex slot of the Tensioner Pulley.
18. Turn the Tensioner Pulley Anti-Clockwise.
(Until the Tensioner Piston hole is aligned with the Plunger hole)
19. Insert a 1.5 mm Locating Pin into the Plunger and Piston to retain the Piston in place.



Do not loosen the Tensioner Pulley Bolts.

20. Mark the direction or rotation on the Timing Belt if it is to be reused.
21. Remove the Timing Belt.

Installation

1. Inspect the Plunger Assembly for leaks or other damage and replace if required.
2. Ensure all Timing Marks are correctly aligned.
3. Fit Timing Belt to the Crankshaft Sprocket and the Water Pump Sprocket.
4. Install the Lower Timing Belt Cover.
5. Temporarily install the Crankshaft Pulley.
6. Ensure the Crankshaft Pulley Timing Marks are aligned correctly.
7. Fit Timing Belt to Tensioner Pulley and Camshaft Sprocket.
8. Ensure the Timing Belt is tight between Sprockets on non tensioned side.
9. Insert an Allen Key into the Tensioner Pulley Hex slot.
10. Turn the Tensioner Pulley Anti-Clockwise until the Locating Pin can be removed.
11. Remove the Locating Pin.
12. Turn the Tensioner Pulley fully Clockwise until the piston is fully extended.
13. Turn Engine Clockwise two complete turns.
14. Ensure all Timing Marks are correctly aligned.
15. If Timing Marks are not correctly aligned, repeat steps 3 to 14.
16. Torque the Crankshaft Pulley Bolts.
17. Install the Upper Timing Belt Cover.
18. Install the Auxiliary Drive Belts Tensioner assembly.
19. Install the Auxiliary Drive Belts.
20. Slide the Front Panel forward.

21. Install and torque the Front Panel Bolts.
22. Remove the Support Guides.
23. Install the Front Bumper Bar.
24. Install the Engine Undershield.

Tightening Torques

Crankshaft Pulley Bolts.....	25 Nm.
Front Panel Bolts.....	50 Nm.

R&R Time

Not Available