

Serpentine Belt - Check and Replace

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Description

The Serpentine Belt should be checked as part of the "B" Service.

Tools and Supplies

Ratchet Handle (3/8" or 1/2", depending upon Belt Tensioner)
Serpentine Belt

Notes / Special Instructions

- Any time a Serpentine Belt breaks or melts, check all of the various pulleys that it turns. A seized pulley can ruin a new belt in less than a mile.
- The Serpentine Belt is used for the 6.5-liter engine only. The 6.2-liter engine uses a different belt arrangement.
- The Turbo and the NA use a slightly different length belt, and they are not interchangeable.

Procedure Check Serpentine Belt

1. Visually Inspect the Belt.
 - Look for signs of wear or fraying.
 - Check the back (ribbed) side for missing sections. Some cracks (see Illustration 1) are OK. This is easy to examine where the belt passes over the fan / water pump pulley.
 - Check for signs of burning or melting. This may indicate a seized pulley.
2. Check Belt Length.



- Belt length is indicated by the marks on the Belt Tensioner. Illustration 2 shows these marks.
- Belts stretch with use. When a Belt has stretched too much, correct tension cannot be maintained and the Belt must be replaced.

Replace Serpentine Belt

1. Remove Old Belt.

- Release tension by inserting the correct size socket wrench (either 3/8" or 1/2") into the square hole on the Tensioner and pulling toward the passenger side of the truck.
- Move the belt away from the Tensioner Pulley and release the Tensioner.
- Remove old belt. It is not routed over the engine fan.

2. Install New Belt.

- There is a belt routing diagram in the engine compartment. It is usually located on top of the battery hold-down bracket. This diagram shows how the new belt is routed. See Illustration 3.
- Route the belt as required, except for the Tensioner Pulley. It may be necessary to position parts the belt from under the truck.
- Move the Tensioner Pulley upward by pulling on the socket wrench handle. Position the belt under the Tensioner Pulley. Release the Tensioner and allow the Pulley to tension the Belt. Check the indicator for correct Belt length.
- Re-check that the Belt is correctly routed and fully on each pulley.
- Remove the socket wrench handle.

3. Test the New Belt.

- Start the engine and let it idle.
- Make sure Belt is in correct position on all pulleys.
- Re-check the Belt Length Indicator for correct Belt Length.

Illustration 1 – Minor Cracks in Serpentine Belt

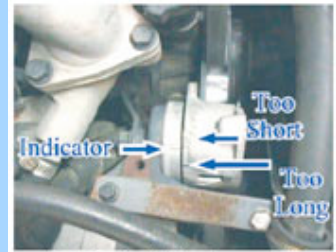


Illustration 2 – Belt Tensioner and Belt Length Indication



Illustration 3 – Belt Routing Diagram