

Installation Instructions: Solution kits 39068K1 and 39068K2

For 1998-2008 Toyota "1ZZFE" "1.8L engines

Warning:

- Always shut engine off before performing any work.
- Appropriate safety equipment should be worn when performing any work under the hood.
- DO NOT disassemble the alternator decoupler pulley.

(Note: The ADP installation tools described below will be available soon at the store that sells this kit or purchased now through Miller Tool as part number 8433A.)

Recommendations:

1. Always install the tensioner and belt per vehicle manufacturer's guidelines.
2. Disconnect the negative battery terminal.
3. Take note of the under hood belt routing diagram. If missing, refer to Fig 1.
4. Release the serpentine belt tension using a serpentine belt tensioner release tool or a 19 mm box end wrench to rotate the tensioner arm in the clockwise (down) direction. This must be done slowly (3 seconds). Fig 2
5. Remove serpentine belt and discard. Note: Never cut a belt off while under tension.
6. Remove the upper tensioner strut nut. Fig. 2.
7. Remove the tensioner mounting bolt from the tensioner. Remove tensioner from engine and discard tensioner assembly.

Note: Do not discard the upper tensioner strut nut or the tensioner mounting bolt and as they will need to be reused.

8. Before installing the new tensioner, ensure that both mounting surfaces are clean and free of debris.
9. Install the new tensioner onto the engine and tighten tensioner mounting bolt to **60 ft lbs/80Nm**. Note: Only hand tighten the upper tensioner strut nut at this time. This nut will be tightened in step 14 after belt installation.

10. Remove the solid alternator pulley and ensure the alternator shaft and threads are clean and free from any burrs.

Note: Do not use an impact gun to install the Alternator Decoupler Pulley (ADP) onto the alternator. Always use the proper tool to install the ADP!

11. Install the new ADP onto alternator shaft by hand and then tighten using the special tool referenced above to **47-62 ft lbs/65-85Nm**. Fig. 3.
12. Press the new ADP cap onto ADP by hand ensuring a complete seal all the way around the cap.
13. Install new serpentine belt around each pulley except the alternator pulley. Now rotate the tensioner in the clockwise (down) direction and slip the belt on to the alternator pulley. While holding the tensioner in clockwise direction, remove and discard the locking pin in the tensioning strut. Slowly allow tensioner to move in the counter clockwise (up) direction until the belt is tensioned. **Note: Refer to Figure 1 or under hood sticker for proper belt routing. Check and ensure that belt ribs are properly seated in all the pulley grooves.**
14. Tighten the upper strut nut to **18ftlbs/25 Nm**.
15. Reconnect the battery.

Note: Be sure to remove all tools and that belt travel area is clear before starting engine.

16. Start engine to check serpentine belt operation.
17. Stop engine and again check that all of the belt ribs are in the pulley grooves.

Note: The 39068 tensioner is designed to be used with the 37015P ADP. Never replace and ADP with a solid alternator pulley!

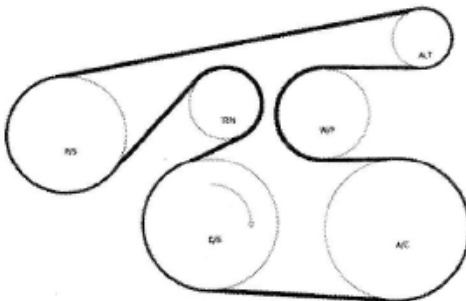


Fig 1

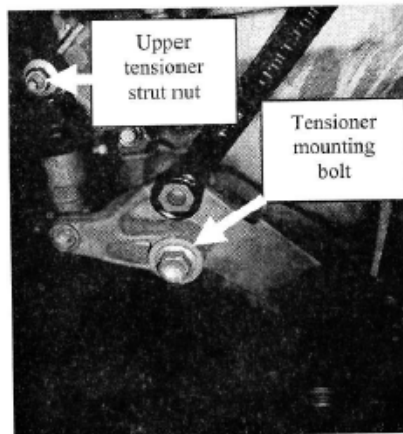


Fig 2

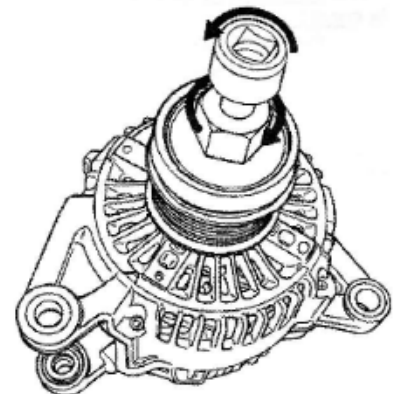


Fig 3