



### Readjust the Idle Base Settings

**COMPLAINT:** Idle problems, including:

- Idle speed dips and then quickly recovers.
- Engine stalls intermittently when the throttle is just off idle.

**CAUSE:** These problems usually occur during these conditions:

1. Accelerator pedal is released but the driver's foot rests over the pedal, causing just enough pressure for the ECM/PCM to detect an input, but there's little or no throttle plate opening (the throttle plate either isn't allowing any air flow or it's opened so slightly that more air supply is needed).
2. Engine speed is about 1250 RPM or less.
3. Lockup clutch (A/T models) or the clutch (M/T models) is disengaged.
4. The driver's foot doesn't move, and stays resting over the accelerator pedal.
5. Air bleed screw isn't set properly and doesn't allow enough air flow.
6. Amount of air leaking into the intake manifold is very low. (The normal amount of air let into the intake manifold by sources other than the IAC valve, the air bleed screw, and normal operation of the throttle body vary slightly from vehicle to vehicle.)

**CORRECTION:** Perform an Idle Reset Procedure.

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## **Idle Reset Procedure: L4 Models**

1. Access the air bleed screw on the throttle body.
2. Record the current setting of the screw:
  - Turn the screw clockwise, and count the number of turns (both full and partial) it takes to seat the screw.
  - Turn the screw counterclockwise back to its original setting.
  - Subtract the number of clockwise turns it took to seat the screw from 3½. Record that number. Example: If it took two full turns to seat the screw, 3½ minus 2 gives you 1½.
3. Start the engine, and let it warm up to its normal operating temperature (the cooling fan cycles twice).
4. Turn off all electrical items (A/C, audio unit, defogger, lights, etc.).
5. Center the steering wheel so there's no power steering load.
6. Connect your scan tool to the data link connector (DLC).
7. Follow the screen prompts on your scan tool to reach the DATA LIST. Scroll down to IAC.
8. While watching the IAC counts, slowly turn the air bleed screw (either counterclockwise or clockwise) until the IAC count reaches 1 or you have turned the screw counterclockwise a total of 3-1/2 turns. (Count the number of counterclockwise turns you've made and add that number to the screw setting you recorded in step 2.)
9. If you see an IAC count of 1, turn the screw clockwise ½ turn, then go to step 11.
10. If you don't see an IAC count of 1 and you've turned the screw counterclockwise a total of 3½ turns, leave the screw set where it is. Go to step 11. Never set the air bleed screw counterclockwise more than 3½ turns from its seated position. If you set the screw further, it could work itself out of the throttle body over time.
11. Let the engine idle for 10 minutes to allow the ECM/PCM to learn the new idle parameters.
12. Key off.
13. Turn off your scan tool and disconnect it.

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## **Idle Reset Procedure: V6 Models**

1. Access the air bleed screw on the throttle body.
2. Record the current setting of the screw:
  - Turn the screw clockwise, and count the number of turns (both full and partial) it takes to seat the screw.
  - Turn the screw counterclockwise back to its original setting.
  - Subtract the number of clockwise turns it took to seat the screw from 3½. Record that number. Example: If it took two full turns to seat the screw, 3½ minus 2 gives you 1½.
3. Start the engine, and let it warm up to its normal operating temperature (the cooling fan cycles twice).
4. Turn off all electrical items (A/C, audio unit, defogger, lights, etc.).
5. Center the steering wheel so there's no power steering load.
6. Connect your scan tool to the data link connector (DLC).
7. Follow the screen prompts on your scan tool to reach the DATA LIST. Scroll down to IAC.
8. While watching the IAC counts, slowly turn the air bleed screw (either counterclockwise or clockwise) until the IAC count reaches 7 or you've turned the screw counterclockwise a total of 3½ turns. (Count the number of counterclockwise turns and add that number to the screw setting you recorded in step 2.)
  - If you see an IAC count of 7, turn the screw clockwise ½ turn, and then go to step 14.
  - If you don't see an IAC count of 7, and you've turned the screw counterclockwise a total of 3½ turns, leave the screw where it is. Go to step 9. Never set the air bleed screw counterclockwise more than 3½ turns from its seated position. If you set the screw further, it could work itself out of the throttle body over time.
9. Key off.
10. Remove the throttle body (see the Fuel and Emissions section of the appropriate service manual).
11. Open the throttle. Spray TBC into the throttle body to clean out any contaminants. Make sure you spray the cleaner through the back of the throttle body, not the front, to avoid damaging the IAC valve.

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12. Inspect the throttle body gasket and replace it if needed.
13. Reinstall the throttle body, making sure all cables are properly adjusted, the accelerator pedal works properly, and all hoses and cables are routed correctly.
14. Start the engine.
15. Let the engine reach normal operating temperature.
16. Make sure all electrical items are turned off and the steering wheel is centered.
17. While watching your scan tool, slowly turn the air bleed screw until the IAC count reaches 7 or you've turned the screw counterclockwise a total of 3½ turns.
  - If you see an IAC count of 7, turn the screw clockwise ½ turn, and then go to step 18.
  - If you don't see an IAC count of 7, leave the screw set at 3½ turns. Go to step 18. Never set the air bleed screw counterclockwise more than 3½ turns from its seated position. If you set the screw further, it could work itself out of the throttle body over time.
18. Let the engine idle for 10 minutes to allow the ECM/PCM to learn the new idle parameters.
19. Key off.
20. Turn off your scan tool and disconnect it.