

Auto Service Summary

Shop: Performance Tire & Auto

Date: June 11, 2025

Reason For Visit

The car was brought in to address the issue of the check engine light being on, likely due to misfire codes and engine timing concerns. Additionally, the vehicle underwent a complete inspection and required maintenance services such as an oil change and investigation into various engine and suspension-related issues.

Repair Summary

The oil was changed using a semi-synthetic oil to ensure proper lubrication of the engine. A full vehicle inspection was conducted to assess the overall condition. The engine's diagnostic revealed multiple misfire codes and camshaft/crankshaft timing issues; a rodent had damaged the camshaft sensor wiring, and though repaired, the timing oil control valve was found stuck due to debris and recommended for replacement. The valve cover gasket and serpentine belt were also replaced to prevent potential leaks and maintain engine efficiency. Significant suspension work was done, replacing both the front struts and rear shocks for improved ride quality and stability. The right rear leaf spring was replaced for optimal balance and support of the vehicle's load.

Major

Replacement of Front Struts and Rear Shocks:

These parts are crucial for stabilizing the vehicle and ensuring a smooth ride. Without replacement, the car could experience poor handling and uneven tire wear.

Timing Chain Guide Replacement:

A broken timing chain guide can severely affect the engine timing and operational efficiency, potentially leading to severe engine damage.

Moderate

Camshaft Sensor Wiring Repair and Timing Oil Control Valve Issue:

Essential for proper engine timing and function. Unresolved, it could lead to poor engine performance and increased fuel consumption.

Replacement of Right Rear Leaf Spring:

Ensures the vehicle can carry weight correctly and remain stable. A broken or weak leaf spring could lead to uneven tire wear and unsafe driving conditions.

Minor

Oil Change:

Regular oil changes help keep the engine clean and lubricated, extending its life and maintaining performance.

Serpentine Belt Replacement:

Crucial for driving multiple components of the engine. Failure could result in loss of power steering, engine overheating, and battery issues.

Cost Breakdown

1. Complete Vehicle Inspection:

\$19.95

2. Semi-Synthetic Oil Change:

\$67.75

3. Testing and Inspection:

\$159.22

4. Connector:

\$11.42

5. Service Package (including Engine VVT Solenoid):

\$303.95

6. Valve Cover Gasket Set:

\$327.80

7. Serpentine Belt:

\$162.85

8. Strut/Shock Replacement - Front:

\$998.27

9. Strut/Shock Replacement - Rear:

\$435.98

10. Timing Chain Guide:

\$37.55

11. Right Rear Leaf Spring:

\$858.41

12. Environmental & Tech Fee:

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13. Job Supplies:

\$86.43

14. Sales Tax:

\$324.77

Total:

\$3,798.23

What Does This Actually Mean?

Camshaft Timing Oil Control Valve:

This valve manages the oil flow to the camshaft phasers, optimizing engine timing for performance and efficiency. If stuck, it can lead to poor fuel economy and engine performance.

Serpentine Belt:

This belt runs multiple engine components like the alternator, power steering pump, and air conditioning compressor. If it breaks, those components won't function, which could lead to overheating or loss of electric power.

Struts and Shocks:

These components absorb bumps and shocks from the road, maintaining tire contact and comfort. Failure results in a bumpy ride and could lead to decreased vehicle control.

Leaf Springs:

These are crucial for load support and maintaining the vehicle's balance. Weak or broken leaf springs could lead to sway and uneven tire wear.

Valve Cover Gasket:

This gasket prevents oil from leaking out of the top of the engine. If it fails, oil leaks can cause engine components to malfunction or become damaged.

Other Notes

All service work is covered by a nationwide 24-month/24,000-mile warranty. Contact 1-866-588-0728 for warranty service. No additional notes.

Recommendations

Regular oil changes and inspections can help prevent engine issues.

Listen for unusual noises from suspension; early attention to this can prevent major repairs.

Schedule routine inspections of belts and hoses to catch wear before it leads to a breakdown.

Consider routine air and cabin filter replacements to ensure clean air in your engine and cabin.