

# Auto Service Summary

**Shop:** Not provided      **Date:** Not provided

**Reason  
for  
Visit:**  
Not  
provided

**Repair Summary:** During the inspection, technicians discovered multiple engine misfires and damaged wiring caused by rodents. To address these issues, they replaced the damaged wiring with a new connector but found that the camshaft timing oil control valve was stuck due to debris, recommending its replacement. The servicemen also replaced the timing chain guide and the serpentine belt, which operate crucial components of the engine and ancillary systems. The front struts and rear shocks were replaced to ensure stable handling and a smooth ride. Additionally, the right rear leaf spring was replaced to maintain the vehicle’s ability to carry heavy loads and ensure balanced suspension.

## Major

### Oil Control Valve Debris Removal and Recommendation:

Removal of debris and recommendation to replace a stuck camshaft timing oil control valve. Not replacing the valve would lead to poor engine performance.

### Front and Rear Suspension Overhaul:

Replacing both the front struts and rear shocks. This was necessary to maintain vehicle control, prevent excessive wear on tires, and ensure ride comfort.

## Moderate

### **Replacement of Timing Chain Guide:**

Ensures accurate timing between the engine's valves and pistons. Left unchecked, it could lead to serious engine damage.

### **Right Rear Leaf Spring Replacement:**

Supports the vehicle's weight and maintains correct ride height, important for safe handling and load bearing.

## Minor

### **Oil Change:**

Regular maintenance to keep the engine running smoothly and protect against wear.

### **Slight Wiring Repair:**

Replacing rodent-damaged camshaft sensor wiring to eliminate error codes and restore proper function.

## Cost Breakdown

1. Complete Vehicle Inspection:	\$19.95
2. Semi-Synthetic Oil Change:	\$67.75
3. Testing and Engine Inspection:	\$159.22
4. Connector Replacement:	\$11.42
5. Service Package:	\$303.95
6. Replacement of Engine VVT Solenoid:	Part of Service Package
7. Replacement of Valve Cover Gasket:	\$327.80
8. Serpentine Belt Replacement:	\$162.85
9. Front Strut/Shock Replacement:	\$998.27
10. Rear Shock Replacement:	\$435.98
11. Timing Chain Guide:	\$37.55
12. Right Rear Leaf Spring Replacement:	\$858.41
13. Enviro & Technology Fee:	\$3.88
14. Job Supplies:	\$86.43
15. Sales Tax:	\$324.77
16. Total:	\$3,798.23

## What Does This Actually Mean?

### **Camshaft Timing Oil Control Valve:**

This valve is responsible for controlling the timing of the camshaft, which is vital for the engine's proper air-fuel mixture and performance. A faulty valve can cause poor engine performance or increased emissions.

### **Serpentine Belt:**

This belt powers various critical components in your vehicle, such as the alternator, power steering pump, and air conditioning compressor. If it fails, these systems will stop working, potentially leaving you stranded.

### **Struts and Shocks:**

These components cushion the vehicle over bumps and help maintain tire contact on the road. Worn struts and shocks can lead to poor handling and excessive tire wear.

### **Leaf Springs:**

They support the weight of the vehicle and improve stability. Damage or weakness in these can affect the vehicle's handling and safety.

## Recommendations

1. Regularly inspect for rodent activity and secure engine components from them to prevent future damage.
2. Conduct timely oil changes and inspections to ensure all components are working efficiently and to detect issues early.
3. If recommended, schedule the replacement of the faulty oil control valve to prevent engine performance issues.
4. Regularly check suspension components for wear and tear, especially if you frequently travel on rough roads or carry heavy loads.