Global Parts Distributors, LLC

TECH TIP

Simple Solution: Restoring Performance on Ford Variable Scroll Compressors: 6511487 and 6512368

6511487

6512368

AFFECTED APPLICATIONS	
2000-2005 Jaguar S-Type	2005-2007 Mercury Montego
2000-2006 Lincoln LS	2005-2007 Ford Freestyle
2002-2005 Ford Thunderbird	2004-2007 Ford Five Hundred

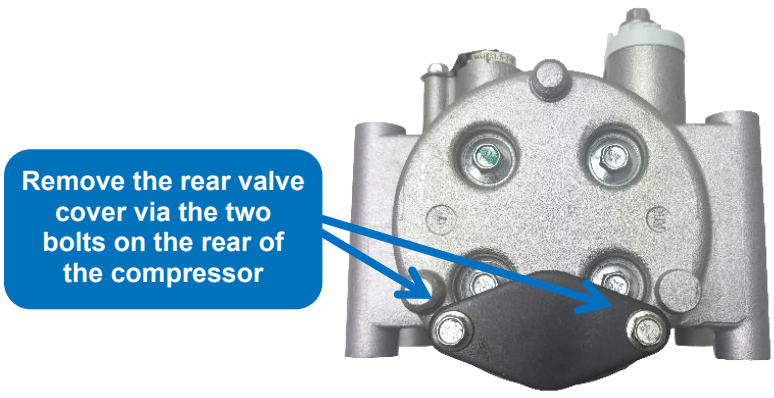
In the early 2000s, Ford utilized a variable displacement scroll style compressor on several applications to improve fuel economy and reduce engine drag. These compressors were designed with a control valve in the rear that regulated displacement. Unfortunately, as these compressors aged, the rear control valve was prone to getting stuck in the de-stroke position. This would reduce compressor output, resulting in poor cooling performance that mimicked a failed compressor. To resolve this common cause of premature failure, gpd has identified a simple service procedure that can restore normal compressor operation.

Required Tools:

- 10 mm Wrench
- Plastic o-ring pick (gpd part no. 5811493 or equivalent)

Note: It is not recommended to use a metal pick, as damage to the valve or o-ring may occur.

1. Locate the cover plate on the rear of the compressor. Using a 10mm wrench, remove the two retaining bolts and carefully place the cover plate face up on a clean surface.



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2. Carefully remove the copper control valve. In many cases, the valve can be removed by hand; however, a plastic o-ring pick may be needed. To avoid damaging the o-ring during removal, use a plastic o-ring pick (gpd part no. 5811493 or equivalent) versus a metal o-ring pick or tool.

3. On a clean surface, remove the spring from the copper valve and inspect both components. Ensure the valve and spring are clean and free of dirt, dust, or debris before reinstallation. Prevent contaminants from entering the compressor during service.

4. Reinstall the copper valve into the compressor first, followed by the spring. Verify that both components are properly seated and remain clean.

5. Reposition the cover plate face down on the rear of the compressor. A small use of force will be needed to compress the spring slightly to align the bolt holes. Reinstall the two retaining bolts and tighten evenly to prevent refrigerant leaks.
Manufacturer torque specifications: 15Nm ~ 11 ft-lbs

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