

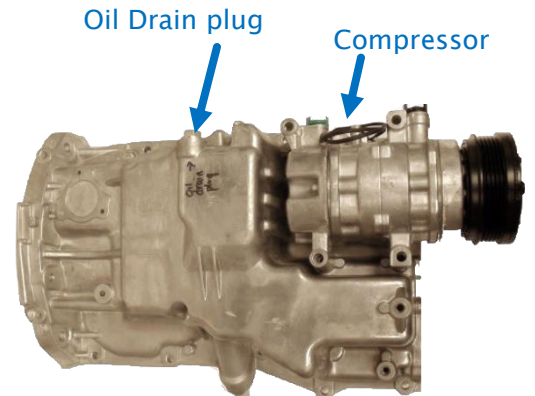
2004–2009 Mazda 3 2.0/2.3L and 2006–2010 Mazda 5 2.3L Piston Replacement Compressor for OE Rotary Vane Style: 6511699

Based on commonly reported issues in the automotive market, gpd has redesigned the 2004–2009 Mazda 3 2.0/2.3 L and 2006–2010 Mazda 5 2.3L compressors.

THE PROBLEM

The OE compressors in these Mazda models mount on the oil pan at the bottom of the motor. When the vehicle is not moving, oil often drains to the compressor. Even when the system is in proper working condition, the compressor is under a lot of stress due to the excess oil and reflective heat from the road.

A key reason, these compressors often fail is because of the rotary vane design in the OE compressor. In rotary vane compressors, the shaft turns the vanes around the wall to create pressure. As shown in the image to the left, the vanes have locked in the housing system, stopping the rotating vanes from creating pressure. This will cause the entire air conditioning system to fail.



Compressor mounts on the bottom of the engine on the oil pan.



Rotary Vane Style Compressor



Piston Style Compressor

gpd SOLUTION

gpd has redesigned the internal workings of the OE compressor to a 10-piston style compressor designed to reduce the risk of premature failure.



6511699 · gpd Piston Replacement Compressor

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