



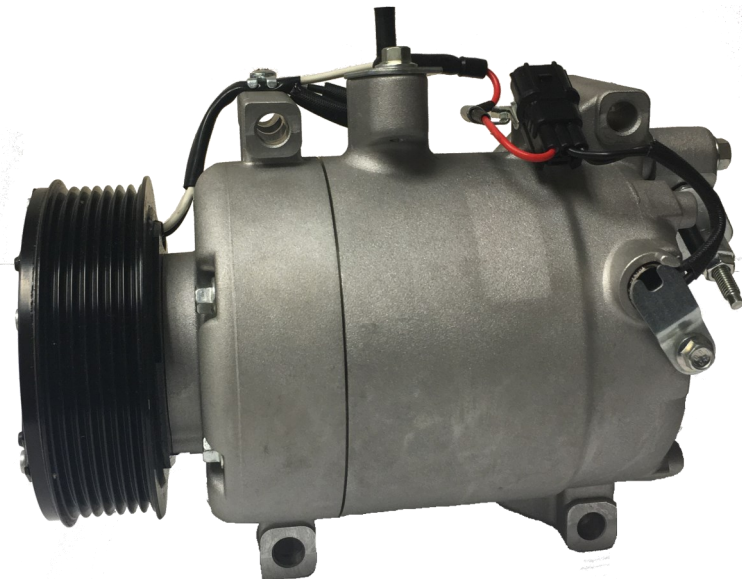
6513243 / Piston Replacement

As discussed in gpd tech tip #50, gpd has worked on internal design changes for commonly replaced scroll compressors. The purpose of this internal design change was to keep the oil circulating within the compressor, so the compressor will remain lubricated. When oil is not circulating correctly through a compressor, it is prone to failure due to lack of lubrication.

On further analysis, gpd noticed that on returned warranty compressors featuring the scroll design, oil had escaped. With a system that requires as little as 2.7 ounces of oil, a 30% reduction in oil capacity has a dramatic effect due to oil starvation within a scroll compressor.

gpd was the first in the aftermarket to offer piston style replacements for scroll compressors with the same exterior appearance and function as the scroll compressors. These piston style replacements reduce the warranty rate of commonly replaced scroll compressors, while increasing the cooling performance at idle and heavy traffic speeds.

As a replacement for the OE scroll design, gpd released the 6513243. This piston replacement compressor has two design changes from the OE compressor. gpd has removed the device that traps the oil inside of the compressor, which allows the oil to flow back within the system. The compressor will come pre-charged with 5.5 ounces of oil. This has been predetermined to be the correct amount to lubricate the compressor under correctly charged conditions. The compressor will also come with a warning sticker, which can be fitted under the hood of the vehicle for the next repairer. This sticker is to make them aware of the design change. The compressor will also be manufactured as a piston replacement. With the success gpd has had with the previous piston versions of scroll compressors it was the obvious choice for overall improvement for the entire air conditioning system of the 2007–2014 Honda CRV 2.4 L.





Piston Replacement for the 2007–2014 Honda CRV Compressor

The 2007–2014 Honda CRV 2.4L compressor is a commonly replaced compressor in the market. global parts distributors, llc (gpd) offers two options for this vehicle:

- gpd #6513243: Piston Replacement for the Scroll Compressor
- gpd #6512639: TRSE09 Scroll O.E. Style



gpd #6512639

gpd #6513243

The piston compressor is a direct bolt-off, bolt-on replacement for the scroll style compressor. gpd's piston design is more tolerable of debris left in the A/C system and performs better at lower RPMS than the O.E. scroll.

This gpd piston replacement compressor comes with an adjusted amount of oil for the A/C system (please refer to gpd tech tip #78). No matter which compressor is chosen for replacement, gpd strongly recommends that the condenser is replaced and the system is flushed.



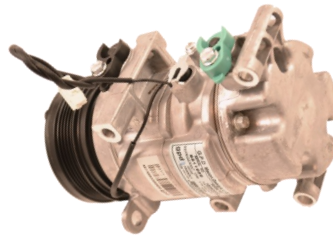
gpd Piston Replacement Compressors

"Your Simple A/C Solution" to problem compressors!



6512653

Piston replacement for
2002-2006 Honda CR-V
Scroll



6511699

Piston replacement for
2004-2010 Mazda 3 and 5
Rotary Vane



6512296

Piston replacement for
2007-2009 Mazda CX-7
Rotary Vane



6512986

Piston replacement for
2002-2006 Ford E-Series
Scroll



6512987

Piston replacement for
2002-2005 Explorer



6512652

Piston replacement for
2003-2005 Ford Crown
Victoria Scroll



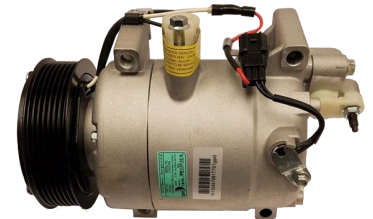
6512988

Piston replacement for
2003-2006 Ford
Expedition Scroll



6513243

Piston replacement for
2007-2014 Honda CRV
Scroll



6513244

Piston replacement for
2009-2014 Acura TSX
Scroll

Scroll compressors have always had issues with low RPM performance and contaminants in the A/C system. gpd's piston design is more tolerable of debris left in the A/C system. It also performs well at lower RPMs. gpd offers piston direct fit replacements for the scroll compressors as well as Piston Replacement Compressor Kits.

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Piston Replacement Compressor Kits



GLOBAL PARTS DISTRIBUTORS, LLC

Tech Tip

#36

Part Number	Application	Year(s)
9645490	Acura TSX 2.4 L4	2009–2010
9645491	Acura TSX 2.4 L4	2011–2014
9632852	Ford E-350 5.4	2002–2005
9632853	Ford E-550 6.8	2003
9633434	Ford E-350 6.0 with Rear A/C	2004–2006
9633435	Ford E-350 6.0 without Rear A/C	2004–2006
9633442	Ford Expedition 4.6 & 5.4 without Rear A/C	2003
9633443	Ford Expedition 5.4 without Rear A/C	2005–2006
9633444	Ford Expedition 4.6 & 5.4 with Rear A/C	2003
9633445	Ford Expedition 4.6 with Rear A/C	2003–2004
9633446	Ford Expedition 4.6 & 5.4 with Rear A/C	2004
9633438	Ford Expedition 4.6 & 5.4 without Rear A/C	2003
9632857	Ford Explorer 4.6	2002–2005
9633436	Ford Explorer 4.0	2002–2005
9633472	Ford Explorer 4.6 with Rear A/C P-nut Rear Expansion Valve	2002–2005
9633473	Ford Explorer 4.6 with Rear A/C; Block Rear Expansion Valve	2002–2005
9633474	Ford Explorer 4.0 with Rear A/C; without Sport Trac; P-nut Expansion Valve	2002–2005
9633475	Ford Explorer 4.0 with Rear A/C; without Sport Trac; Block Rear Expansion Valve	2002–2005
9642410	Honda CR-V 2.4 L4	2002–2006
9648410	Honda CR-V 2.4 L4	2011
9648411	Honda CR-V 2.4 L4	2012–2014
9648412	Honda CR-V 2.4 L4	2007–2008
9648413	Honda CR-V 2.4 L4	2009–2010
9633437	Lincoln Aviator 4.6	2003–2005
9632854	Lincoln Navigator 5.4 with Rear A/C	2003
9633346	Lincoln Navigator 5.4 without Rear A/C	2003
9633439	Lincoln Navigator 5.4 with Rear A/C	2004
9633440	Lincoln Navigator 5.4 with Rear A/C	2005–2006
9633441	Lincoln Navigator 5.4 without Rear A/C	2005–2006
9632855	Lincoln Town Car 4.6	2003
9632856	Lincoln Town Car 4.6	2004–2005

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