Countries:	RUSSIA, AUSTRALIA, CANADA, COLOMBIA, UNITED STATES, MEXICO, PUERTO RICO, KOREA, NEW ZEALAND	**Document ID**:	IK1200541
Availability:	ISIS, FleetISIS	**Revision**:	3
Major System:	ENGINES	**Created**:	10/7/2010
Current Language:	English	**Last Modified**:	8/1/2014
Other Languages:	Français, Español,	**Author**:	Mark Ehlers
Viewed:	8782		

Less Info

Hide Details Coding Information

Copy Link	Copy Relative Link	Bookmark	Add to Favorites	Print	Provide Feedback	Helpful	Not Helpful
		View My Bookmarks				716	562

Title: Air Control Valve (ACV): Audible Air Leaks, 2 vs 3 Mount Versions and Updated 15L Version

Applies To: EPA 10 MaxxForce 11L, 13L, 15L, EPA 10 13L HDOBD, N13 with SCR Engines

---

07/30/2014 - Added explanation of upgraded15L ACV
08/1/2014 - Modified format

DESCRIPTION

Audible air leak:

- See "symptoms" below

Two and Three bolt versions of this valve exist (see images):

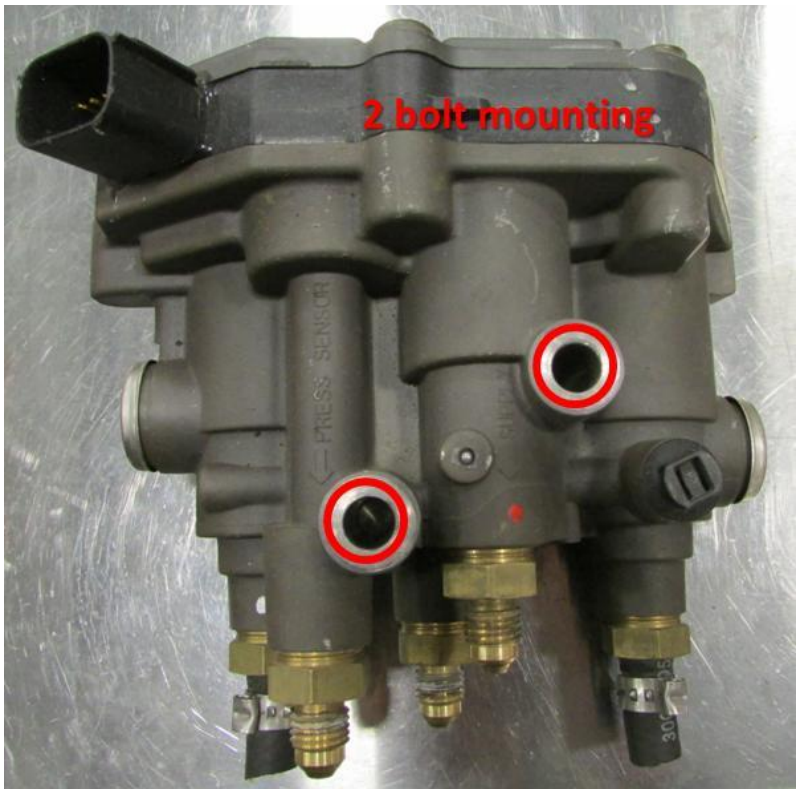
- 2 bolt versions of the ACV **SHOULD NOT** be retrofitted to 3 bolt versions **UNLESS THE VALVE HAS FAILED**
- A 2 bolt ACV can be attached to a EGR cooler that has 3 holes (for ACV attachment)
- A 3 bolt ACV can be attached to a EGR cooler that has 2 holes (for ACV attachment)
- Replacement of 2 bolt versions (to 3 bolt version) is not covered in warranty unless the 2 bolt version has failed or you have been directed to replace the ACV in a field campaign.

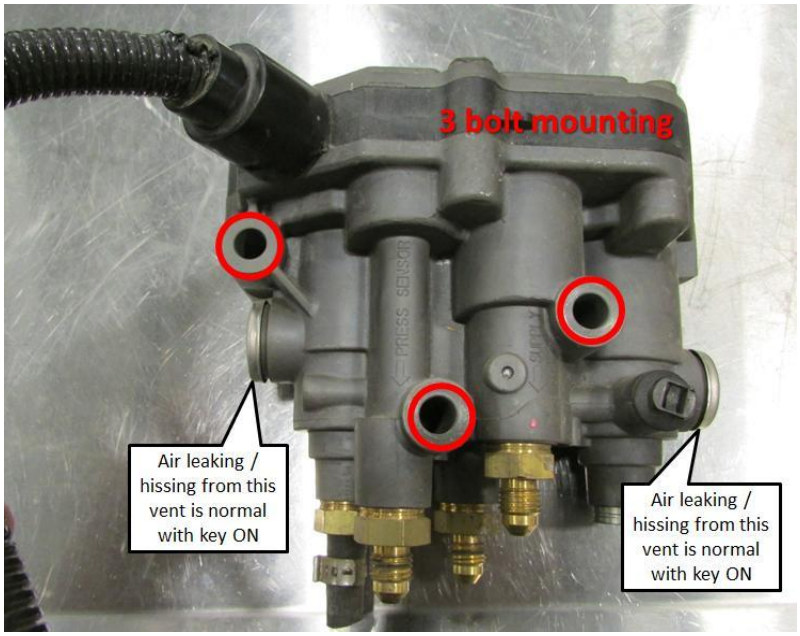
15L upgraded ACV (applies to MaxxForce 15 only):

- The PDC's inventory of 15L ACV's have been upgraded with an extension harness that has been made with gold terminals, lubricated with dielectric grease, and had the connection sealed with red shrink tubing.
  - This upgrade improves the reliability of the ACV by eliminating electrical connection fretting
- The upgraded valves have a "U" written on the box's part number label (image)
- The upgraded valve has harness routing instructions in the box (image)
- The upgraded valve looks like this (image)
- Only install the upgraded valve if you are certain that the old valve has failed
- Closely inspect the engine harness for spread or fretted terminals before installing a new ACV
  - a damaged engine harness ACV connector can be repaired with kit 3014682C91 (instructions included)

SYMPTOMS

With KOEO, an audible air leak is heard at the Air Control Valve (ACV) A.K.A Norgren Valve / Boost Control Solenoid





RESOLUTION

Due to an internal regulator in the Air Control Valve an audible air leak can be heard from the exhaust ports on the valve with KOEO . **NOTE:** This is normal operation and parts should not be replaced for this issue. If there are concerns or an issue please submit a case to Tech Services.

STANDARD REPAIR TIME

13L- Air Control Valve (ACV)
15L- Air Control Valve (ACV)

WARRANTY CODING

Group 12000 - ENGINE

Noun 954 - VALVE, BOOST CONTROL SOLENOID

Hide Details

Feedback Information

Viewed: 8781
Helpful: 716
Not Helpful: 562

No Feedback Found

Copyright © 2014 Navistar, Inc.