



Countries: CANADA, UNITED STATES, PUERTO RICO
Availability: ISIS, FleetTIS
Major System: ENGINES
Current Language: English
Other Languages: NONE
Viewed: 6271

Document ID: IK1200739
Revision: 9
Created: 3/16/2012
Last Modified: 2/4/2014
Author: Daniel Modesto

[Less Info](#)
[Hide Details](#)

Coding Information

Copy Link	Copy Relative Link	Bookmark	Add to Favorites	Print	Provide Feedback	Helpful	Not Helpful
		View My Bookmarks				313	80

Title: EGR Valve - SPN 27 FMI 7 and SPN 27 FMI 4

Applies To: 2010 Emissions MaxxForce 11 & 13 Liter Engines

Description

- ECM shows an active or inactive SPN 27 FMI 7 or SPN 27 FMI 4
- (Use PocketMaxx or an EZ-Tech to generate a Health Report which is now required for warranty reimbursement per [WPL13-009G](#). The Health Report will include any active DTC's and will link you to the Fault Code Action Plan.)
- Check for any Open MIN's, AFC's, and Managed Repairs Prior to starting this document.

NOTE:

- If NO EGR Valve Faults are present DO NOT replace the EGR Valve no repairs are required for the EGR system.

Symptoms

- Check Engine Light On
- EGR Valve Component / Circuit Fault Code

Possible Diagnostic Trouble Codes

SPN	FMI	MODULE	DESCRIPTION
27	7	ECM	EGRP does not agree with Commanded Position
27	4	ECM	EGRP Signal Out of Range Low

Parts Information

- 7092735C9* KIT, EGR VALVE
- If Necessary : Harness Repair Kit Part Number : Connector TXT126870214, Wiring TXT126870120, Tools : 49304,49305

Resolution

NOTE:

- If faults 27-4 (Table 1) and 27-7 (Table 2) are both present you will need to diagnose the 27-4 fault first.
- If NO EGR Valve Faults are present DO NOT replace the EGR Valve no repairs are required for the EGR system.

Diagnostic Steps when Fault 27-4 is present:

Diagnostic Steps (Table 1)	YES	NO

1. Check Service Portal and see if the vehicle qualifies for Managed Repair : 2010 Emissions MF11/13 EGR Valve Inspection Guidelines . Does the vehicle qualify for the managed repair?	Follow Managed Repair : 2010 Emissions MF11/13 EGR Valve Inspection Guidelines	Continue to Step 2
2. Check the vehicle build date <ul style="list-style-type: none">Was the vehicle built BEFORE 07/01/2012?	Replace the EGR Valve wiring pigtail with splice kit from the engine terminal repair kit (TL2900024 Big Bore Terminal Replacement Kit and Manual) . Apply dielectric grease on the new terminals.	Continue to Step 3
3. Clear all faults with EST. 4. Run EGR Valve Actuator Test in ServiceMaxx. <ul style="list-style-type: none">Did the Actuator test pass?	Release the vehicle to the customer	Replace the EGR Valve. Release the vehicle to the customer

Diagnostic Steps when Fault 27-7 is present:

Diagnostic Steps (Table 2)	YES	NO
1. Check Service Portal and see if the vehicle qualifies for Managed Repair 2010 Emissions MF11/13 EGR Valve Inspection Guidelines . Does the vehicle qualify for the managed repair?	Follow Managed Repair : 2010 Emissions MF11/13 EGR Valve Inspection Guidelines	Continue to Step 2
2. Clear all faults with EST. 3. Run EGR Valve Actuator Test in ServiceMaxx. <ul style="list-style-type: none">Does Fault 27-7 return?	Replace the EGR Valve <ul style="list-style-type: none">If the vehicle was built BEFORE 07/01/2012 you will also need to replace the EGR Valve wiring pigtail with splice kit from the (TL2900024 Big Bore Terminal Replacement Kit Manual) . Apply dielectric grease on the new terminals.	Release the vehicle to the customer

Warranty Claim Submission

- **Requirement** : Include the Serial Number of the failed and new EGR Valve in the subsequent warranty claim "CCC" and the "Failed Serial #" fields (See Photo Below).
- **Requirement** : Be sure the replacement EGR Valve Serial # starts with a 2(Serial Number location shown below).



Labor Times and Warranty Information For EGR Valve Replacement :

- Group Description: 12000
- Noun Description: 893
- **Standard Repair Time:**

Time	SRT	Chassis Model	Engine Model
2.8	N12-6893U	7600	MaxxForce 11/13
2.8	Q12-6893U	8600	MaxxForce 11/13
2.9	R12-6893U	ProStar	MaxxForce 11/13
2.8	T12-6893U	5000	MaxxForce 11/13

Labor Times For EGR Valve Actuator Test Replacement :

<u>Time</u>	<u>SRT</u>	<u>Chassis Model</u>	<u>Engine Model</u>
<u>0.1</u>	<u>T-Time</u>	<u>All</u>	<u>All</u>

Labor Times For EGR Valve Pigtail Replacement :

Time	SRT	Chassis Model	Engine Model
0.2	A08-2001A	All	All

Labor Time For Engine Cover Removal and Installation (Use only if EGR Valve Pigtail is repaired, not for use on EGR Valve Replacement)

Time	SRT	Chassis Model	Engine Model
0.8	A16-7555A	ProStar	MaxxForce 11/13
0.8	T- Time	All	MaxxForce 11/13

 Hide Details

Feedback Information

Viewed: 6270

Helpful: 313

Not Helpful: 80

No Feedback Found

Copyright © 2014 Navistar, Inc.