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## E211

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### Section

ECM/PMCI/PCI

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### Description

MY17 RC7 and MY18 RC2 Provide Automatic DPF Warm-up Functionality

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### Release Date

6/1/2018

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### Introduction

The [April 2018 Powertrain Video Newsletter](#) has a segment about this issue. This issue starts about 1/3 of the way through the video.

### MX Behavior during Extended Idling

#### *Before MY17 RC7 & MY18 RC2 MX Automatic DPF Warm-up Functionality*

- Manual parked regeneration is requested after a certain amount of idle time (6-18 hours)
- Manual parked regeneration needs to be initiated by driver using the regen switch

#### *After MY17 RC7 & MY 18 RC2 MX Automatic DPF Warm-up Functionality*

The following characteristics are standard for MY2018 chassis and optional for MY2017 chassis.

- As a convenience, Automatic DPF Warm-up may occur automatically without driver input while the vehicle is idling. During extended idling, the vehicle will periodically increase engine speed to perform this function, sometimes without notification to the driver
- If used, driver will likely not have to perform a parked regeneration after extended idling.

### Automatic DPF Warm-up Information for Drivers

- Drivers cannot drive if a Parked Regeneration is requested. "DO NOT DRIVE" displays on the dash. The vehicle is safe to drive if an Automatic DPF Warm-up is occurring.
  - Automatic DPF Warm-up can be stopped by pressing the brake pedal and then the vehicle can be driven.

**CAUTION**

The Vehicle is NOT safe to drive during Parked Regeneration. A "DO NOT DRIVE. Parked Regen Required" message displays.

- A 10-minute restart delay timer begins if Automatic DPF Warm-up is stopped.
  - If Automatic DPF Warm-up is stopped by the driver, the function will be attempted every 10 minutes until it can be completed.
- DPF Warm-up functionality can be disabled via SPP or temporarily disabled using the regen inhibit switch.
  - If DPF Warm-up functionality is disabled, a Parked Regeneration may be required after extended idling.
  - If drivers use the inhibit switch to disable Automatic DPF Warm-up, drivers will need to remember to un-inhibit regens before driving
- Tailpipe exhaust temperatures will remain below 450F (230C)

The following information is taken from the programming guide:

<b>Activate</b>	<b>Deactivate</b>
Accelerator pedal not pressed	Accelerator pedal pressed
Foot brake not pressed	Foot brake pressed
Clutch pedal not pressed if equipped	Clutch pressed if equipped
Vehicle in neutral	Vehicle not in neutral
Parking brake set	Parking brake not set
DPF regen switch is not set to 'inhibit'	DPF regen switch set to 'inhibit'
Vehicle speed = 0	Vehicle speed > 0
No related engine or aftertreatment faults	Related engine or aftertreatment faults, ie: BPV, VGT, EAS overtemps, pre-DOC temp etc.
Coolant at operating temp	Coolant not at operating temp
Engine load less than 600 lb-ft*	Engine load greater than 600 lb-ft*
If PTO active, engine speed greater than 900 RPM**	If PTO active, engine speed less than 900 RPM**
* Engine load threshold varies based on engine speed	
** Engine speed threshold varies based on ambient conditions	

## Automatic DPF Warm-up

- Automatic DPF Warm-up will occur every 3 – 8 hours during extended idling and take 20 to 60 minutes to complete.
  - Engine speed is elevated while Automatic DPF Warm-up is occurring
  - If driver notifications are available, a 2-minute countdown timer will alert drivers that an Automatic DPF Warm-up is about to start
- OBD monitors introduced for Auto DPF Warm-up functionality
  - Regeneration related faults indicate an issue with engine temperature control. See Engine Rapido for details.
- Automatic DPF Warm-up will function with PTO or FIC active

- Auto DPF Warm-up will NOT change engine speed if PTO is active
  - PTO Engine Speed needs to be above about 900 rpm for Auto DPF Warm-up to occur with PTO active

## Automatic DPF Warm-up Availability

### MY17

- Software can be updated to MY17 RC7 to enable Automatic DPF Warm-up Functionality
- Functionality will be disabled by default (labels will be included in SPP to allow customers to enable via PVP)

### MY18

- Software can be updated to MY18 RC2 to enable Automatic DPF Warm-up functionality
- MY18 Automatic DPF Warm-up functionality **disabled** by default on chassis built **before** 05/01/2018, when updated to RC2. MY18 Automatic DPF Warm-up functionality **enabled** by default on trucks built **after** 05/01/2018.

Updates to driver notifications:

- NAMUX 4 (579/567): Never
- NAMUX 2/3 (NOT 579/567): Never
- VECU: tentative release 6 in early 2019

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## Resolution

### INFORMATIONAL ONLY

1. Read the introduction information above to learn about new Automatic DPF Warm-up functionality with MY17 RC7 and MY18 RC2 engine software.
2. Print the [Driver/Operator handout](#) for the Driver/Operator.
3. If the chassis is a MY17, ask if they would like the Automatic DPF Warm-up function enabled. If they do, see the procedure below.

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## Warranty

Information only. This is an option for the customer.

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## Procedure

### Enable Automatic DPF Warm-up for MY17 with RC7 and higher software

Go to bulletin [E134](#) and follow the instructions to make appropriate parameter changes through PVP.

The [April 2018 Powertrain Video Newsletter](#) has a segment about this issue. This issue starts about 1/3 of the way through the video.

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## Attachments

[Driver/Operator handout](#)

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