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Availability: ISIS, Bus ISIS, FleetISIS
Major System: ENGINES
Current Language: English
Other Languages: NONE
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Coding Information

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Title: ICP Adaptation Reset

Applies To: EPA 2010 & EPA 2013 (OBD) MaxxForce DT, 9 & 10 ESN 3300000+

DESCRIPTION

In some instances ICP adaptation may need to be reset due to ICP codes set during the Key On Engine Running (KOER) Standard Test or a vehicle test drive. If repairs are made to the ICP system and these faults return, proceed to complete this procedure. The reset may be needed on EPA 2010 or EPA 2013 (OBD) MaxxForce DT, 9 & 10 engines **AND IS ONLY** available at this time with calibrations ending in **XUR0** (EPA 2010) and **ECR0** (EPA 2013 OBD). The ICP Adaptation reset feature will be part of calibrations superceding XUR0 and ECR0 (Latest calibration is EER4).

SYMPTOMS

- Malfunction Indicator Light (MIL) illuminates with active/inactive code
- Active code is set when running (KOER) Standard Test or a vehicle test drive/normal operation
- SPN FMI will trigger when Injection Control Pressure (ICP) Actual rises above ICP Desired by a predetermined threshold

NOTE: Technicians are encouraged to monitor ICP Actual versus ICP Desired during Key On Engine Running (KOER) Standard Test before and after repair to gain experience.

DIAGNOSTIC TROUBLE CODES

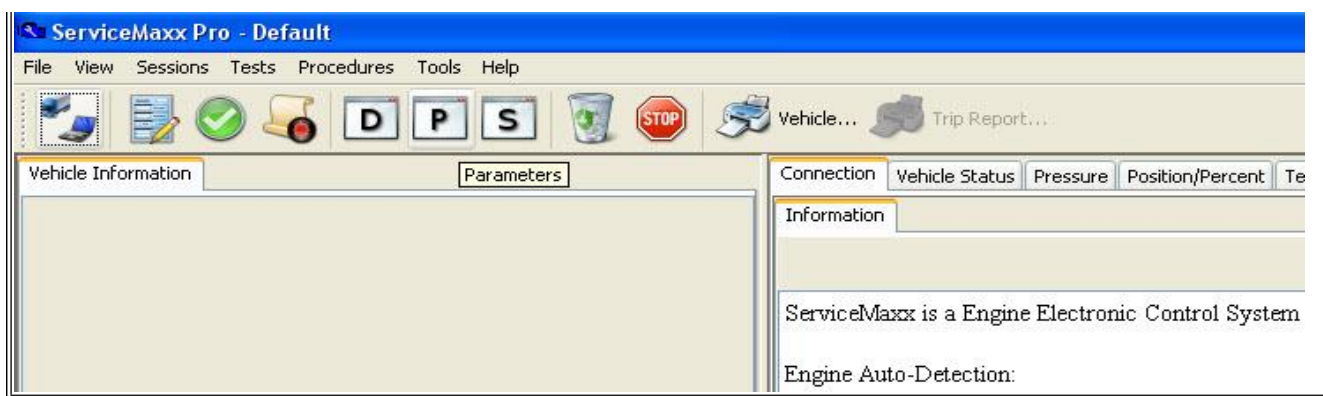
DTC	SPN	FMI	MODULE	DESCRIPTION
	164	16	ECM	ICP above desired level
	164	15	ECM	ICP too high during test

PROCEDURE

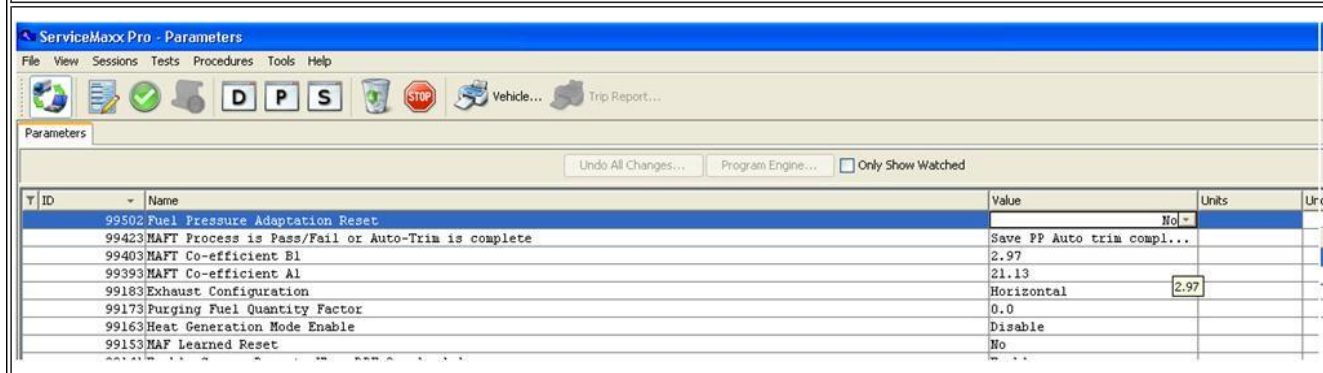
Following ICP system repair, if an ICP code (per above notes) is active, reset ICP Adaptation Parameter as follows: Go to ServiceMaxx 1. Parameters 2. Go to PID 99502 'Fuel Pressure Adaptation Reset' 3. Set to 'Yes' / '1' 4. Program Engine 5. Wait for "Engine Parameters Programmed Successfully" dialog box 6. Cycle key off, wait twenty seconds and key back on 7. **Turn engine** on and let idle for 10 seconds. Key back off for 20 seconds and key back on 8. Go back to PID 99502 9. Set to '0' 10. Program Engine 11. Wait for "Engine Parameters Programmed Successfully" dialog box 12. Cycle key off, wait twenty seconds and key back on. 13. Run KOER Standard Test and check if ICP fault returns, then test drive the unit.

STEP 1

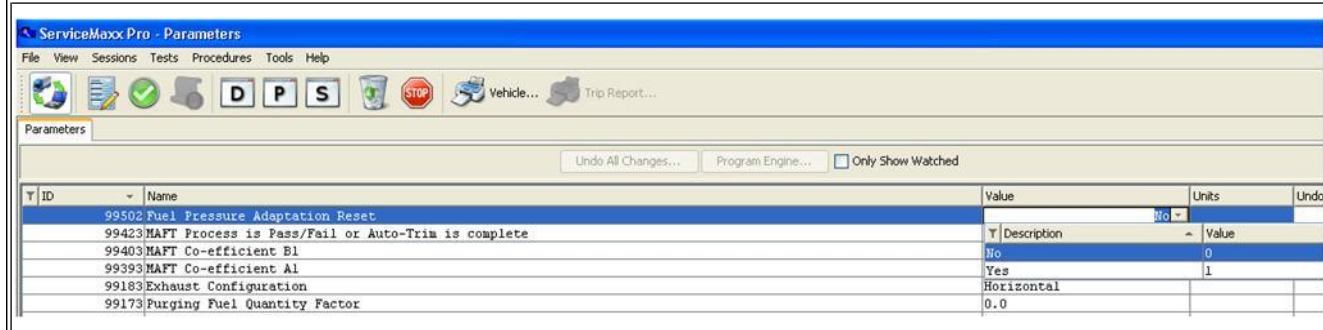
Select "Parameters".

**STEP 2**

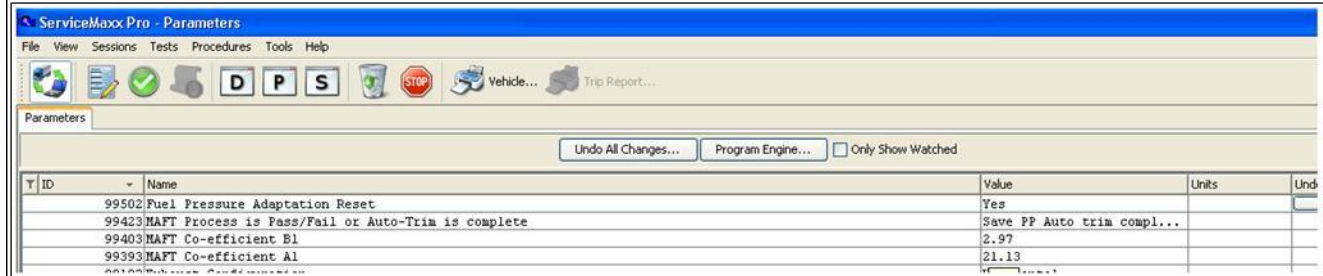
Select PID 99502 'Fuel Pressure Adaptation Reset.' The value should have originally been set to "No" / "0".

**STEP 3**

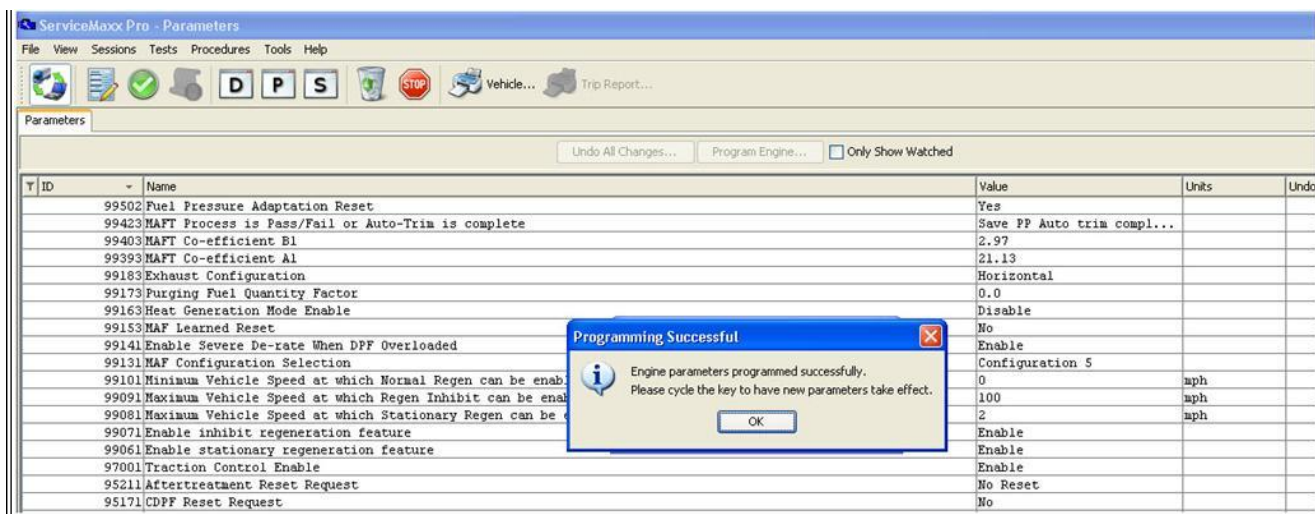
Select "Yes" / "1".

**STEP 4**

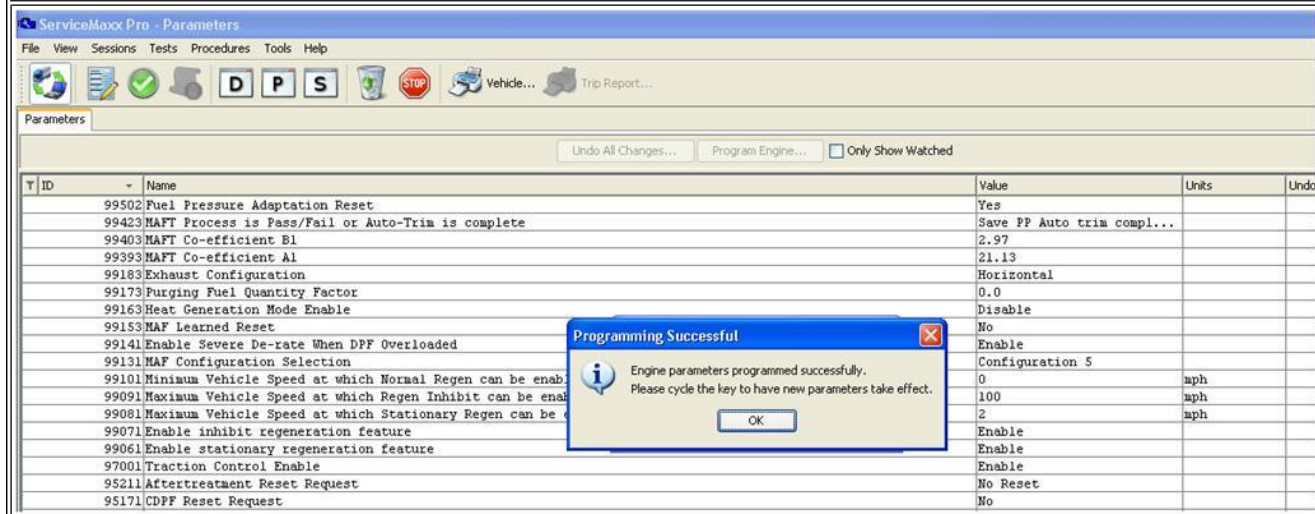
Select "Program Engine".

**STEP 5**

Wait for "Engine parameters programmed successfully" dialog box.

**STEP 6**

Cycle key off, **WAIT 20 SECONDS** and key back on

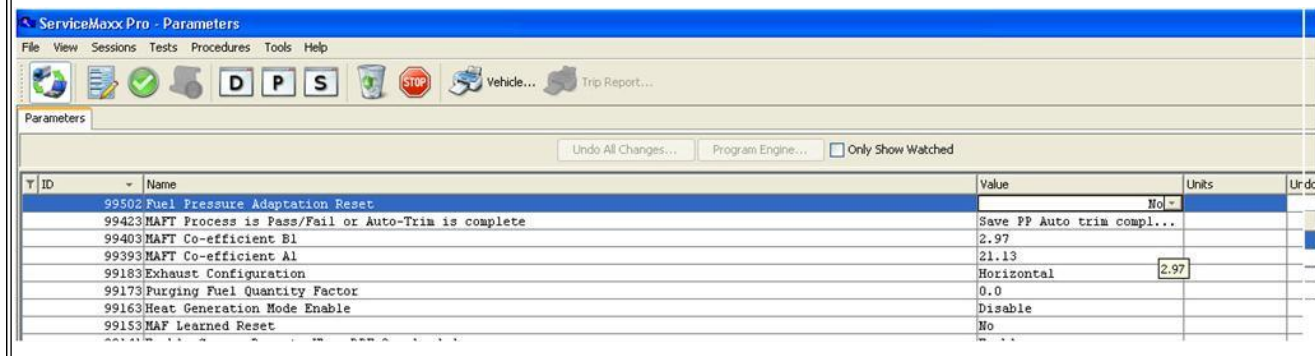
**STEP 7**

TURN ENGINE ON and let idle for **10 SECONDS**. Then key back off, **WAIT 20 SECONDS** and key back on.

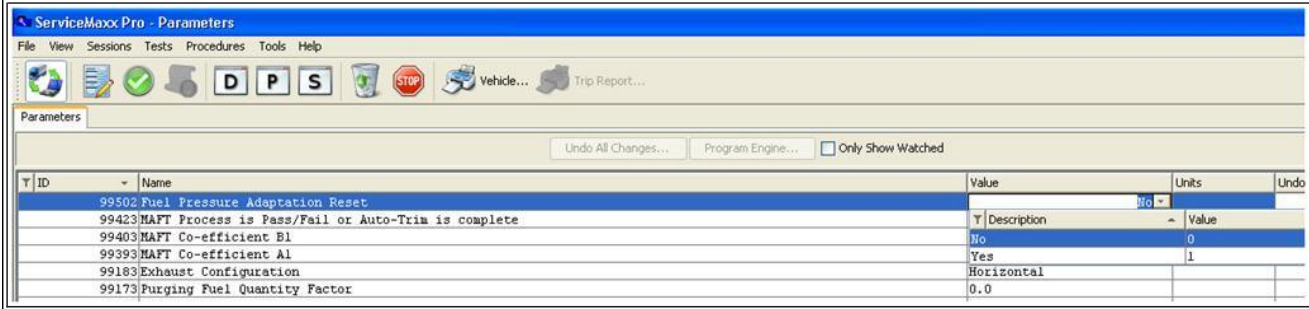
Note: The ICP Adaptation RESET will not work, if this step is not followed.

STEP 8

Once Key is back on, select PID 99502 "Fuel Pressure Adaptation Reset." The value should read "Yes" / "1".

**STEP 9**

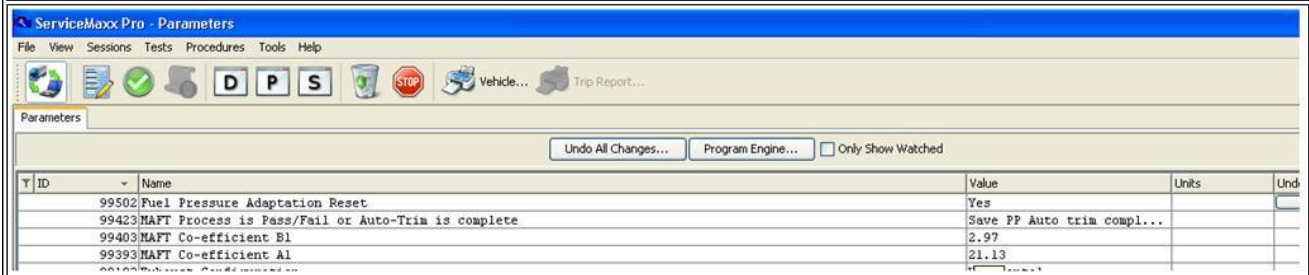
Select "No" / "0".



ID	Name	Value	Units	Undo
99502	Fuel Pressure Adaptation Reset	No		
99423	MAFT Process is Pass/Fail or Auto-Trim is complete	Y	Description	Value
99403	MAFT Co-efficient B1	No		0
99393	MAFT Co-efficient A1	Yes		1
99183	Exhaust Configuration	Horizontal		
99173	Purging Fuel Quantity Factor	0.0		

STEP 10

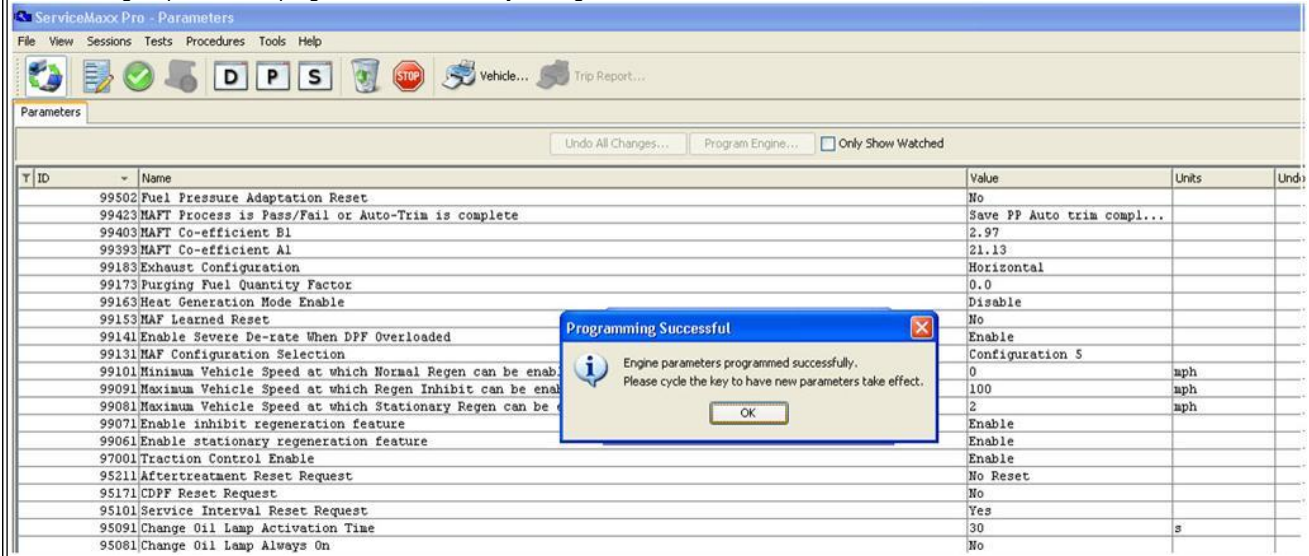
Select "Program Engine".



ID	Name	Value	Units	Undo
99502	Fuel Pressure Adaptation Reset	Yes		
99423	MAFT Process is Pass/Fail or Auto-Trim is complete	Save PP Auto trim compl...		
99403	MAFT Co-efficient B1	2.97		
99393	MAFT Co-efficient A1	21.13		

STEP 11

Wait for "Engine parameters programmed successfully" dialog box.



ID	Name	Value	Units	Undo
99502	Fuel Pressure Adaptation Reset	No		
99423	MAFT Process is Pass/Fail or Auto-Trim is complete	Save PP Auto trim compl...		
99403	MAFT Co-efficient B1	2.97		
99393	MAFT Co-efficient A1	21.13		
99183	Exhaust Configuration	Horizontal		
99173	Purging Fuel Quantity Factor	0.0		
99163	Heat Generation Mode Enable	Disable		
99153	MAF Learned Reset	No		
99141	Enable Severe De-rate When DPF Overloaded	Enable		
99131	MAF Configuration Selection	Configuration 5		
99101	Minimum Vehicle Speed at which Normal Regen can be enabled	0	mph	
99091	Maximum Vehicle Speed at which Regen Inhibit can be enabled	100	mph	
99081	Maximum Vehicle Speed at which Stationary Regen can be enabled	2	mph	
99071	Enable inhibit regeneration feature	Enable		
99061	Enable stationary regeneration feature	Enable		
97001	Traction Control Enable	Enable		
95211	Aftertreatment Reset Request	No Reset		
95171	CDPF Reset Request	No		
95101	Service Interval Reset Request	Yes		
95091	Change Oil Lamp Activation Time	30	s	
95081	Change Oil Lamp Always On	No		

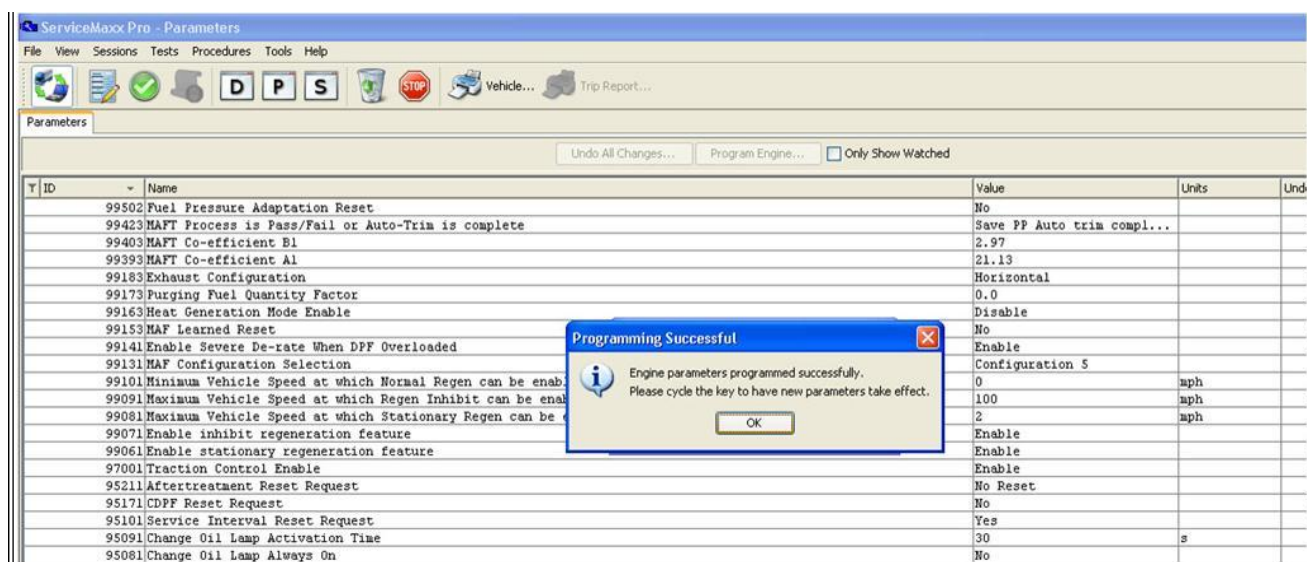
Programming Successful

Engine parameters programmed successfully.
Please cycle the key to have new parameters take effect.

OK

STEP 12

Cycle key off, **WAIT 20 SECONDS** and back on

**STEP 13**

Once this is completed, run KOER Standard Test and check if the cause for high IPR%/ICP fault comes back. If no fault, the reset did work.

Then, please test drive the unit and check if the fault comes back. ICP adaptation is relearned under a full load. If fault comes back, there is still an issue with the unit and continue with ICP diagnostics.

WARRANTY INFORMATION

Group	Noun
12000	716

STANDARD REPAIR TIME

12 - ELECTRONIC CONTROL MODULE (ECM OR ECM/IDM) - ENGINE, PROGRAM			
Hours	Code	Model	Engine
0.2	A12-3510A-20	Models, ALL	All Engines

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Feedback Information

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