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Coding Information

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Title: SART Module Diagnostics

Applies To: 2010 and later MaxxForce® 11,13, 15 engines

Updated :
 05/21/2014 - Troubleshooting procedures for the SART module have been reinstated. Updating the ECM calibration will not address the SART fault. Diagnostics should be followed. The 'Description' section was also updated to explain the purpose and operation of the SART module.
 03/21/2014 - A new ECM calibration has been released to address the SART fault under. The troubleshooting for the SART circuits has been removed from this

Description

The technician may notice this code is active or inactive. The customer might not mention a warning light for this code alone.

Diagnostic information and procedures for SART module related codes are explained.

- The SART module broadcasts its time information on the vehicle SAE J1939 datalink upon request from other modules. This time and date information is maintained when the vehicle's battery is disconnected.
- If the ECM determines that it's time / date information from the SART module is corrupt or missing, it shall substitute engine hours for the time / date information.
- A fault or failure of the SART module will not inhibit any functions of the truck.

Possible Diagnostic Trouble Codes

SPN	FMI	MODULE	DESCRIPTION
251	19	ECM	ECM not detecting CAN message for real-time clock
524285	14	SART	Unknown Fault

Parts Information

Part #	Description	Qty
3714874C1	MODULE REAL TIME CLOCK	1

Troubleshooting

The Status of the fault (whether the code is active or inactive) will determine the troubleshooting steps.

- Open ServiceMaxx and check to see if the code is active.
 - Use the data link sniffer in ServiceMaxx to see if SART module is communicating.
- If the code is **ACTIVE**, and the SART is communicating, follow the steps below:
 - [Check status of the SART and Resync](#)
 - If clock resyncs, the code clears and does not return, release the vehicle to customer
 - If the code will not clear, but the module is communicating, the module will need to be replaced.
 - If the module is not communicating, check for power, ground and data link to the module.
- If the code is **INACTIVE**, follow the steps below:
 - Check power, ground and data link to module.
 - If no trouble found, clear the code and release the truck to the customer.

NOTE:

DO NOT OPEN THE SART MODULE

Circuit Diagrams

- [ProStar LoneStar,\(EPA 2010\) Circuit Diagram](#)
- [PayStar MaxxForce® 11L / 13L / 15L](#)

Additional Resources

- [SART LOCATION](#)
- [IK0800080 - J1939 Data Link Troubleshooting](#)

SRT Information

SRT Description	SRT Code Link (Model)		SRT (hr)	Group	Noun
Stand Alone Real Time (SART) Module, Replace	R12-8802A	(ProStar)	0.8	12000	802
	S12-8802A	(LoneStar)			
	T-Time	(All Other Models)			

Electronic Engine Control Systems Diagnostics	A12-2053A	(All Models)	0.7	12000	802
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