



NUMBER: 18-005-11

GROUP: Vehicle Performance

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-024-10, DATED AUGUST 10, 2010, FOR LX/LC/LE/L2 VEHICLES ONLY WHICH SHOULD BE REMOVED FROM YOUR FILES. THIS IS A COMPLETE REVISION AND NO ASTERISKS HAVE BEEN USED TO HIGHLIGHT REVISIONS.

THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL 11-008 FOR 2010 LX 3.5L ENGINES ONLY. ALL APPLICABLE UN-SOLD VIN'S HAVE BEEN LOADED. TO VERIFY THAT THIS SERVICE ACTION IS APPLICABLE TO THE VEHICLE, USE VIP OR PERFORM A VIN SEARCH IN TECHCONNECT. APPLICATION OF THIS SERVICE BULLETIN TO SOLD UNITS IS BASED UPON THE CUSTOMER EXPERIENCING THE SYMPTOM/CONDITIONS. ALL REPAIRS ARE REIMBURSABLE WITHIN THE PROVISIONS OF WARRANTY.

HELP USING THE wiTECH DIAGNOSTIC APPLICATION FOR FLASHING AN ECU IS AVAILABLE BY SELECTING "HELP" THEN "HELP CONTENTS" AT THE TOP OF THE wiTECH DIAGNOSTIC APPLICATION WINDOW.

THE wiTECH SOFTWARE LEVEL MUST BE AT RELEASE 11.02 OR HIGHER TO PERFORM THIS PROCEDURE.

SUBJECT:

MIL Illumination Diagnostic Trouble Code P0339 - Crankshaft Position Sensor Intermittent Set

OVERVIEW:

This bulletin involves flash reprogramming the Powertrain Control Module (PCM) on certain vehicles and then verifying the condition has been corrected. If necessary your next step will be to add a shim to the crank sensor then verifying the condition has been corrected and **only** if necessary, replacing the flexplate.

There are two repair procedures for this service bulletin. One procedure is for un-sold 2010 LX 3.5L engines and a 4 speed transmission with NAA or NAE Emission. The second procedure is for all sold units.

MODELS:

2009 - 2010	(LC)	Challenger
2008 - 2010	(LX)	300 / Magnum / Charger
2008 - 2010	(LE)	300C/300 Touring (International Markets)



Stick with the Specialists™

2008 - 2009 (L2)

300 (China)

NOTE: This bulletin applies to models equipped with a 2.7L, 3.5L engines (sales code EER, EGG) and a automatic transmission.

SYMPTOM/CONDITION:

Some customers may complain of MIL illumination. No other symptoms will be noted or experienced. Further investigation by the technician may find DTC P0339 - Crankshaft Position Sensor Intermittent is set. It is possible that DTC's P0300 - Multiple Cylinder Misfire and/or P1128 - Closed Loop Fueling Not Achieved - Bank 1 and/or P1129 - Closed Loop Fueling Not Achieved - Bank 2 could be set along with P0339 - Crankshaft Position Sensor Intermittent is set.

NOTE: P0339 - Crankshaft Position Sensor Intermittent must be set along with the other DTC's listed above. If P0339 - Crankshaft Position Sensor Intermittent is not set then this bulletin does not apply.

DIAGNOSIS:

Using a Scan Tool (wiTech) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If DTC's other than P0339 with or without P0300, P1128, P1129 are present then record them on the repair order and repair other DTC's first as necessary before proceeding further with this bulletin.

PARTS REQUIRED:

Qty.	Part No.	Description
AR (1)	68061031AA	Washer .022 (.56mm)
AR (1)	04736299AC	Flexplate
(1) AR	04275086AB	Label, Authorized Modification

SPECIAL TOOLS / EQUIPMENT REQUIRED:

NPN	Battery Charger
NPN	wiTECH

REPAIR PROCEDURE 2010 LX 3.5L with a 4 speed transmission and NAA or NAE Emissions Un-sold Units:

1. Reprogram the PCM with the latest software. Help using the wiTECH diagnostic application for flashing an ECU is available by selecting "Help" then "Help Contents" at the top of the wiTECH diagnostic application window. After PCM reprogramming, the following must be performed:
 - a. Clear any DTC's that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow the tech to clear them.
 - b. **Perform a "Module Reset" with wiTECH.**
 - c. **Perform a "TLC Relearn" with wiTECH..**
2. Type the necessary information on the "Authorized Modification Label" and attach it near the VECI label and return vehicle to inventory.

REPAIR PROCEDURE all Sold Units:

1. Is the vehicle a 2010 or 2009 LX 3.5L with a 4 speed transmission and NAA or NAE Emmissions?
 - a. Yes >>> proceed to [Step #3](#)
 - b. No >>> proceed to [Step #2](#)
2. Is the vehicle a 2009 LC 3.5L with a 4 speed transmission and NAA or NAE Emmissions?
 - a. Yes >>> proceed to [Step #3](#)
 - b. No >>> proceed to [Step #11](#)
3. Reprogram the PCM with the latest software. Help using the wiTECH diagnostic application for flashing an ECU is available by selecting "Help" then "Help Contents" at the top of the wiTECH diagnostic application window. After PCM reprogramming, the following must be performed:
 - a. Clear any DTC's that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow the tech to clear them.
 - b. **Perform a "Module Reset" with wiTECH.**
 - c. **Perform a "TLC Relearn" with wiTECH..**
4. Drive vehicle and perform 6 to 8 wide open throttle 1-2 shifts in the 5,800 RPM range.
5. Connect wiTECH to vehicle.
6. Select PCM.
7. Select the "Monitor List" tab.
8. Scroll down and select the "Cam Crank Synchronization Event Monitor"
9. Scroll down and read both the "Engine Unlock Position" and the "Unlock RPM" status.
10. Is the "Engine Unlock Position" between 40 and 55 or 400 and 415 degrees with the "Unlock RPM" greater than 3000 RPM??
 - a. Yes >>> proceed to [Step #18](#)
 - b. No >>> **Perform a "Module Reset" with wiTECH and "TLC Relearn" with wiTECH.** Repair Complete.
11. Connect wiTECH to vehicle if not connected.
12. Select PCM.
13. Select the "Monitor List" tab.
14. Scroll down and select the "Cam Crank Synchronization Event Monitor"
15. Scroll down and read both the "Engine Unlock Position" and the "Unlock RPM" status.
16. Is the "Engine Unlock Position" between 40 and 55 or 400 and 415 degrees?
 - a. Yes >>> proceed to [Step #17](#)
 - b. No >>> This Bulletin does not apply. Refer to the Diagnostic Procedure available in DealerCONNECT/TechCONNECT for P0339 - Crankshaft Position Sensor Intermittent to diagnose this condition.
17. Is the "Unlock RPM" greater than 3000 rpm?
 - a. Yes >>> proceed to [Step #18](#)
 - b. No >>> Refer to the Diagnostic Procedure available in DealerCONNECT/TechCONNECT for P0339 - Crankshaft Position Sensor Intermittent to diagnose this condition.
18. Remove the crankshaft position sensor. Follow the detailed service procedures available in DealerCONNECT/TECHCONNECT, Refer to 14 - Fuel System / Fuel Injection / SENSOR, Crankshaft Position / Removal.
19. Install washer (p/n 68061031aa) between sensor fastener bushing and transmission.
20. Reinstall the crankshaft position sensor.
21. **Perform a "Module Reset" with wiTECH.**
22. **Perform a "TLC Relearn" with wiTECH..**

NOTE: It is necessary to perform a “Module Reset and TLC Relearn” prior to driving the vehicle. If this step is not preformed the values will not be accurate. The values need to be reset.

23. Drive vehicle and perform 6 to 8 wide open throttle 1-2 shifts in the 5,800 RPM range.
24. Connect wiTECH to vehicle.
25. Select PCM.
26. Select the “Monitor List” tab.
27. Scroll down and select the “Cam Crank Synchronization Event Monitor”
28. Scroll down and read both the “Engine Unlock Position” and the “Unlock RPM” status.
29. Is the “Engine Unlock Position” between 40 and 55 or 400 and 415 degrees with the “Unlock RPM” greater than 3000 RPM??
 - a. Yes >>> proceed to [Step #30](#)
 - b. No >>> Repair Complete.
30. Replace flexplate. Refer to 09 - Engine, 3.5L or 2.7L / Engine Block / FLEXPLATE / Removal and Installation.
31. **Perform a “Module Reset” with wiTECH.**
32. **Perform a “TLC Relearn” with wiTECH..**

NOTE: It is necessary to perform a “Module Reset and TLC Relearn” prior to driving the vehicle. If this step is not preformed the values will not be accurate. The values need to be reset.

33. Relearn ETC if necessary.
34. Re-initialize power windows (LC models only).
35. Type the necessary information on the “Authorized Modification Label” and attach it near the VECI label and return vehicle to inventory.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Amount
18-19-06-J1	Reprogram, Module Powertrain Control 2010 Un-Sold units (B)	0.2 Hrs.
18-19-06-J2	Reprogram, Module Powertrain Control 2010 or 2009 Sold units (B)	0.2 Hrs.
08-15-80-98	Check Cam Crank Synchronization Event Monitor	0.2 Hrs.
08-15-80-99	Monitor Events And Shim, Crankshaft Position Sensor (B)	0.6 Hrs.
08-15-80-9A	Monitor Events, Shim ,Crankshaft Position sensor and Replace flexplate with 41TE or 42RLE transmission (B)	4.2 Hrs. LX/LE/L2 Bodies 3.9 Hrs. LC Body
08-15-80-xx	Monitor Events, Shim ,Crankshaft Position sensor and Replace flexplate with NAG1 Transmission (B)	3.9 Hrs.

FAILURE CODE:

ZZ	Service Action
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