CHRYSLER Jeep DODGE **SERVICE BULLETIN**

NUMBER: 18-024-10

GROUP: Vehicle Performance

DATE: August 18, 2010

This bulletin is supplied as technical information only and is not an authorization for repair. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without written permission of Chrysler Group LLC.

THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-040-08, DATED NOVEMBER 22, 2008, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS AND INCLUDE THE ADDITION OF YEARS, MODELS, UPDATED REPAIR PROCEDURE AND LABOR TIMES.**

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

OVERVIEW:
This bulletin involves adding a shim to the crank sensor and verifying the condition has been corrected and **only** if necessary, replacing the flexplate.

MODELS:

**2009 - 2010	(JC)	Journey**
**2009 - 2010	(JS)	Avenger/Sebring/Serbring Convertible**
**2009 - 2010	(JK)	Wrangler**
2009 - **2010**	(LC)	Challenger
2008 - **2010**	(LX)	300 / Magnum / Charger
2008 - **2010**	(LE)	300C/300 Touring (International Markets)
2008 - 2009	(L2)	300 (China)
**2009 - 2010	(RT)	Town & Country/Grand Voyager**

NOTE: This bulletin applies to models equipped with a 2.7L, 3.5L, 3.3L, 3.8L or 4.0L engine (sales code EER, EGG, EGF, EGV, EGL or EGQ) 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

SPECIAL TOOLS / EQUIPMENT REQUIRED:

NPN	Battery Charger
NPN	wiTECH

REPAIR PROCEDURE:
1. **Connect wiTECH to vehicle.
2. Select PCM.
3. Select the “Monitor List” tab.
4. Scroll down and select the “Cam Crank Synchronization Event Monitor”
5. Scroll down and read both the “Engine Unlock Position” and the “Unlock RPM” status.
6. Is the “Engine Unlock Position” between 40 and 55 or 400 and 415 degrees?
   a. Yes >>> proceed to Step #7
   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.
7. Is the “Unlock RPM” greater than 3000 rpm?
   a. Yes >>> proceed to Step #8
   b. No >>> Refer to the Diagnostic Procedure available in DealerCONNECT/TechCONNECT for P0339 - Crankshaft Position Sensor Intermittent to diagnose this condition.
8. 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.
9. Install washer (p/n 68061031aa) between sensor fastener bushing and transmission.
10. Reinstall the crankshaft position sensor.
11. **Perform a “Module Reset” with wiTECH.**Select “Misc Functions” tab.
12. Scroll down and select the “Reset Memory” function.
13. Select the “All Adaptive Memory” function from the drop down list.

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

14. Drive vehicle and perform 6 to 8 wide open throttle 1-2 shifts in the 5,800 RPM range.
15. Connect wiTECH to vehicle.
16. Select PCM.
17. Select the “Monitor List” tab.
18. Scroll down and select the “Cam Crank Synchronization Event Monitor”
19. Scroll down and read both the “Engine Unlock Position” and the “Unlock RPM” status.
20. 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 #21
    b. No >>> Repair Complete.
21. Replace flexplate. Refer to 09 - Engine, 3.5L or 2.7L or 3.3L or 3.8L or 4.0L/ Engine Block / FLEXPLATE / Removal and Installation.
22. **Perform a “Module Reset” with wiTECH.**Select “Misc Functions” tab.
23. Scroll down and select the “Reset Memory” function.
24. Select the “All Adaptive Memory” function from the drop down list.
25. Relearn ETC if necessary.
26. Re-initalize power windows (LC models only).**

POLICY:
Reimbursable within the provisions of the warranty.

*****TIME ALLOWANCE:*****

Labor Operation No:	Description	Amount
08-15-80-95	Check Cam Crank Synchronization Event Monitor	0.2 Hrs.
08-15-80-90	Monitor Events And Shim, Crankshaft Position Sensor (B)	0.8 Hrs.
08-15-80-91	Monitor Events, Shim ,Crankshaft Position sensor and Replace flexplate with 41TE or 42RLE transmission (B)	4.3 Hrs. LX/LE/L2 Bodies 3.9 Hrs. LC Body 2.7 Hrs. JK Body 4.9 Hrs. JS Body 4.0 Hrs. RT Body
08-15-80-92	Monitor Events, Shim ,Crankshaft Position sensor and Replace flexplate with 62TE 2WD or NAG1 4x2 Transmission (B)	3.9 Hrs. LC/LE/L2/LX Bodies 5.5 Hrs. JS Body 5.4 Hrs. JC Body 4.5 Hrs. RT Body
08-15-80-93	Monitor Events, Shim ,Crankshaft Position sensor and Replace flexplate with 62TE AWD or NAG1 4x4 Transmission (B)	6.0 Hrs. LE/L2/LX Bodies 6.8 Hrs. JS/JC Bodies
08-15-80-94	Optional Equipment - ESP calibrate	0.2 Hrs.

FAILURE CODE:

ZZ	Service Action

Copyright 2007 - 2015 Service Repair Solutions, Inc.