GM Bulletin No.: 14076C
Date: September 2014

Service Bulletin

SERVICE UPDATE

SUBJECT: **Service Update for Inventory Vehicles Only**
Engine Noise – DTC P0324
Expires May 31, 2015

MODELS: **2014 Chevrolet Spark**
Equipped with 1.2L Engine (LL0)

The Part Information section has been revised. The piston set can now be ordered from GMCCA. Please discard all copies of bulletin 14076B.

This service update involves vehicles in dealer inventory only and will expire May 31, 2015.

PURPOSE

This bulletin provides a service procedure to perform a test procedure on **certain** 2014 model year Chevrolet Spark vehicles, equipped with a 1.2L engine (LL0). If the vehicle does NOT pass the test procedure, dealers are to replace the four piston assemblies. Some customers have commented about engine knock/tick/rattle, sluggish performance, and poor shifts; however, the vehicle remains operable.

This service procedure should be completed on involved vehicles currently in dealership inventory as soon as possible but no later than May 31, 2015, at which time this bulletin will expire.

VEHICLES INVOLVED

All involved vehicles are identified by VIN in the Global Warranty Management System – Investigate Vehicle History Application. Dealership technicians should always check this site to confirm vehicle involvement prior to beginning any required inspections and/or repairs. It is important to routinely use this tool to verify eligibility because not all similar vehicles may be involved regardless of description or option content.

Additionally, a list of involved vehicles currently in dealer inventory is available on the “Service Update Bulletin Information” link under the “Service” tab in GM GlobalConnect (US) or attached to the GlobalConnect message (Canada) used to release this bulletin.

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PART INFORMATION

Parts required to complete this service update are to be obtained from General Motors Customer Care and Aftersales (GMCC&A). Please refer to your "involved vehicles listing" before ordering parts. Normal orders should be placed on a DRO = Daily Replenishment Order. In an emergency situation, parts should be ordered on a CSO = Customer Special Order.

Important: The parts listed below are only required if the inspection procedure determines piston replacement is required. These parts must be replaced during the piston replacement procedure, **do not reuse any of the listed components**.

Part Number	Description	Quantity/Vehicle
25193932	Piston, Eng	4
96830652	Retainer – Piston Pin	4
96864000	Bolt – Connecting Rod	8
96416362	Bolt/Screw – Cyl. Hd.	10
94525091	Washer – Cyl. Hd.	10
25187952	Gasket – Cyl. Hd.	1
25183348	Gasket – Cam Cover	1
25189002	Oil Pan	1
25186670	Gasket – Exhaust Manifold	1
25182093	Bolt/Screw – Exhaust Manifold	10
15032594	Nut – Catalytic Converter Pipe	3
96337657	Gasket – Exhaust Front Pipe	1
11588725	Bolt – Water Pump	4
13208672	Nut – Drive Shaft	2
11611963	Washer - Axle	2
88864346 – US 88861418 - CN	Sealant	2
12346290 – US 10953464 - CN	DEXCOOL Engine Coolant	5 Qt. (4.8 litre) (submit as net item)
Obtain Locally - US	DEXOS1 5W-20 Engine Oil	4 Qt.
88863951 - CN	DEXOS1 5W-20 Engine Oil	3.8 litre

SERVICE PROCEDURE

Note: The engine may exhibit a mechanical knock, tick or rattle noise during the inspection. In addition, the Malfunction Indicator Lamp (MIL) may illuminate and diagnostic trouble code (DTC) P0324 may set. Read and perform the diagnostic test in the inspection procedure below to determine if a vehicle repair is required.

Engine Diagnostic Test and Inspection

Vehicles Equipped with an Automatic Transmission

1. Allow the vehicle to cold soak overnight.

2. With the ignition key in the on position and the engine off, install GDS2 and select Module Diagnosis >Engine Control Module >Diagnostic Trouble Codes (DTC)>View Codes and Clear Codes.
3. Select Data Display>Ignition Data and monitor the Total Knock Retard Parameter.
4. Set the parking brake.
5. Start the vehicle and run at idle for 10 seconds.
6. Firmly apply and hold the brake and place the vehicle into ‘D’ drive.
7. Raise the engine RPM to between 1800 and 2000 for 10 seconds and then return to idle for 5 seconds.
8. Repeat step 7 five times.
9. Turn off the engine.
10. Review the GDS2 session log Total Knock Retard Parameter.
    - If the readings during the raised RPM testing were continuously above 6.0 degrees for more than 5 seconds, the vehicle requires repair. Refer to the repair procedure section below.
    - If the readings during the raised RPM testing were NOT continuously above 6.0 degrees for more than 5 seconds, no further action is required within the scope of this bulletin. Refer to SI to further diagnose the concern

Vehicles Equipped with a Manual Transmission

1. Allow the vehicle to cold soak overnight.
2. With the ignition key in the on position and the engine off, install GDS2 and select Module Diagnosis >Engine Control Module >Diagnostic Trouble Codes (DTC)> View Codes and Clear Codes.
3. Select Data Display>Ignition Data and monitor the Total Knock Retard Parameter.
4. Start the vehicle and run at idle for 10 seconds.
5. Drive vehicle in gear at 1800 to 2000 RPMs for 10 seconds. Light brake application will aid to maintain engine load in the 2000 RPM range. Stop and idle for 5 seconds.
6. Repeat step 5 five times.
7. Turn off the engine.
8. Review the GDS2 session log Total Knock Retard Parameter.
    - If the readings during the raised RPM testing were continuously above 6.0 degrees for more than 5 seconds, the vehicle requires repair. Refer to the repair procedure section below.
    - If the readings during the raised RPM testing were NOT continuously above 6.0 degrees for more than 5 seconds, no further action is required within the scope of this bulletin. Refer to SI to further diagnose the concern.

Repair Procedure

Install four new piston assemblies.

Replace all four piston assemblies, refer to *Piston, Connecting Rod, and Bearing Replacement* in SI.

WARRANTY TRANSACTION INFORMATION

Submit a transaction using the table below. All transactions should be submitted as a ZFAT transaction type, unless noted otherwise.

Labor Code	Description	Labor Time	Net Item
9100411	Perform Test Procedure – Vehicle Passed - No Further Action Req'd	0.5	N/A
9100412	Piston, Connecting Rod, and Bearing Replacement (inc test procedure)	10.9	*

* **For US**: The amount identified in Net Item should represent, 1) the actual sum total of the current GMCC&A Dealer net price for the Dexcool and engine oil needed to perform the required repairs, not to exceed $30.88 USD, plus applicable Mark-Up.

For CN: The amount identified in Net Item should represent, 1) the actual sum total of the current GMCC&A Dealer net price for the Dexcool needed to perform the required repairs, not to exceed $16.25 CAD, plus applicable Mark-Up.

DEALER PROGRAM RESPONSIBILITY

Dealers must take the steps necessary to ensure that the service update correction has been made to all involved vehicles in dealer inventory before selling or dealer-trading the vehicle, but no later than May 31, 2015.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the tools, equipment, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your dealer for information on whether your vehicle may benefit from the information.

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