



January 7, 2014

Ms. Nancy L. Lewis  
Associate Administrator for Enforcement  
National Highway Traffic Safety Administration  
1200 New Jersey Ave. S.W.  
Washington, D.C. 20590

Dear Ms. Lewis:

Reference: NHTSA Identification Number 13V-552

Enclosed are representative copies of communications relating to the 2013-2014 model year vehicles involved in the referenced recall. Chrysler notified dealers on December 13, 2013 and completed the owner notification mailing on December 24, 2013. The exact number of vehicles involved in the recall is 521 in the United States and 1 in the United States Territories.

This completes Chrysler's package of information for this recall as required by the Defects Report Regulation.

Sincerely,

A handwritten signature in blue ink that reads "Kristin Kolodge".

Kristin J. Kolodge  
Regulatory Affairs – Product Investigations & Campaigns

Enclosure: Dealer and Owner Letter for Recall N52

cc: F. Borris



**CHRYSLER**

November 2013

Dealer Service Instructions for:

## **Safety Recall N52 / NHTSA 13V-552 Engine Balance Shaft Module**

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### **Models**

**2013 - 2014 (JS) Dodge Avenger and Chrysler 200**

**(JC) Dodge Journey**

**(MK) Jeep Compass and Patriot**

*NOTE: This recall applies only to the above vehicles equipped with a 2.4L engine (sales codes ED3 or EDG) built from March 15, 2013 through May 06, 2013 (MDH 031521 through 050622).*

*IMPORTANT: Some of the vehicles within the above build period have already been inspected or repaired and, therefore, have been excluded from this recall.*

**IMPORTANT: Some of the involved vehicles may be in dealer new vehicle inventory. Federal law requires you to complete this recall service on these vehicles before retail delivery.** Dealers should also consider this requirement to apply to used vehicle inventory and should perform this recall on vehicles in for service. Involved vehicles can be determined by using the VIP inquiry process.

### **Subject**

The engine balance shaft module on about 500 of the above vehicles may cause a loss of engine oil pressure during normal operation. A loss of oil pressure will cause the engine to fail. An engine failure during certain driving conditions could cause a crash without warning.

### **Repair**

The engine balance shaft module must be replaced.

**Parts Information**

<u>Part Number</u>	<u>Description</u>
<b>68127987AB</b>	<b>Balance Shaft Module Package</b>

Each package contains the following components:

<u>Quantity</u>	<u>Description</u>
1	Balance Shaft Module
8	Balance Shaft Module Bolts

<u>Part Number</u>	<u>Description</u>
<b>04884665AE</b>	<b>Pan, Engine Oil</b>
<b>68082860AA</b>	<b>Sealant, Engine RTV</b>
<b>68218890AA</b>	<b>Oil, Engine (MS-6395)</b>
<b>04892339AA</b>	<b>Filter, Engine Oil</b>

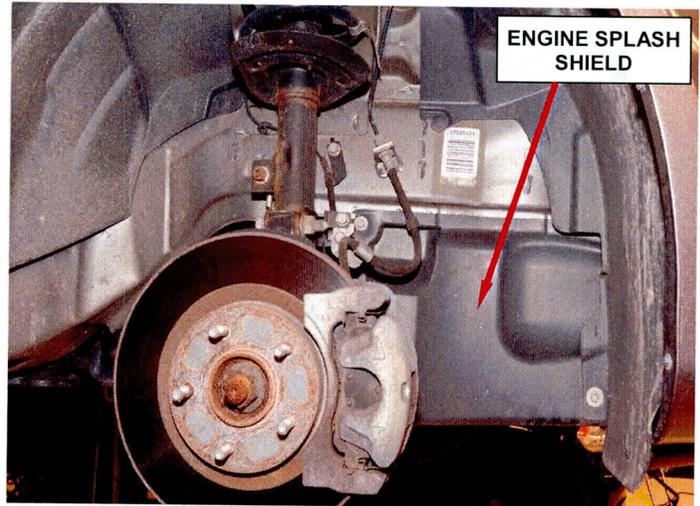
**Special Tools**

No special tools are required to perform this service procedure.

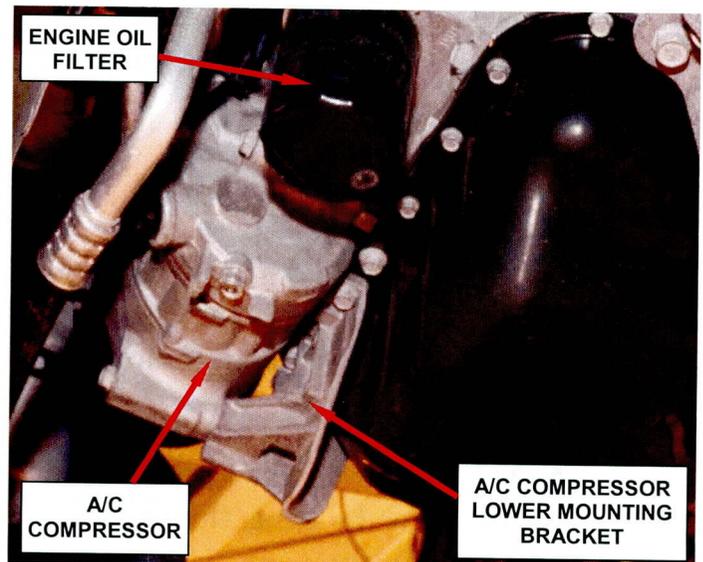
**Service Procedure**

1. Open the hood.
2. Remove and save the engine oil dipstick.
3. Lift the vehicle on an appropriate hoist.
4. Remove and save the right front tire/wheel assembly.
5. Remove and save the right side engine splash shield (Figure 1).
6. Remove the engine oil pan drain plug and drain the oil from the engine crankcase.
7. Remove and discard the original engine oil filter (Figure 2).
8. Install a new engine oil filter (Figure 2).
9. Install the engine oil pan drain plug.
10. Remove and save the air conditioning compressor lower mounting bracket (Figure 2).
11. Remove and save the engine oil pan bolts.
12. Carefully remove the engine oil pan from the engine block.

**CAUTION:** If the oil pan bends during the removal process, replace the engine oil pan.

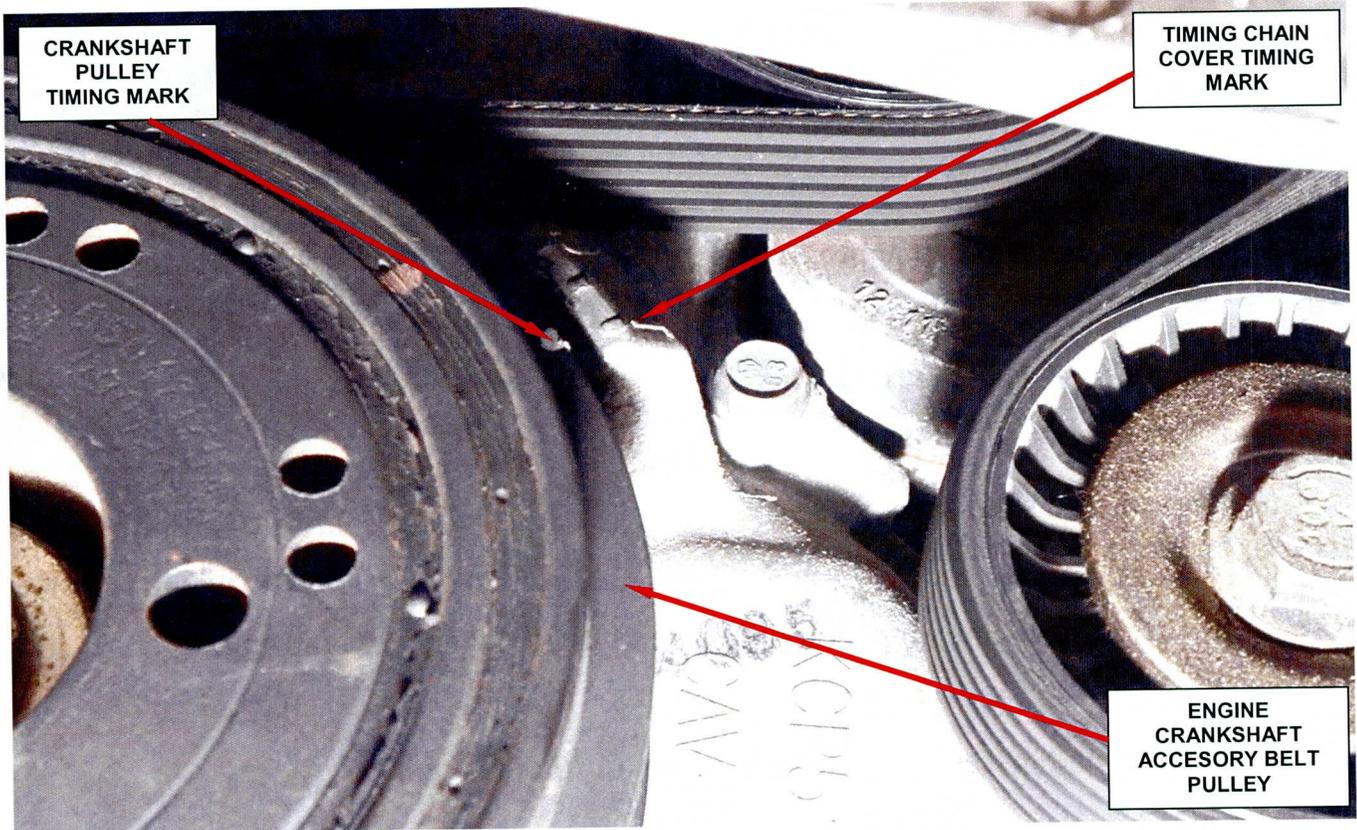


**Figure 1 – Engine Splash Shield**



**Figure 2 – Air Conditioning Compressor Lower Mounting Bracket**

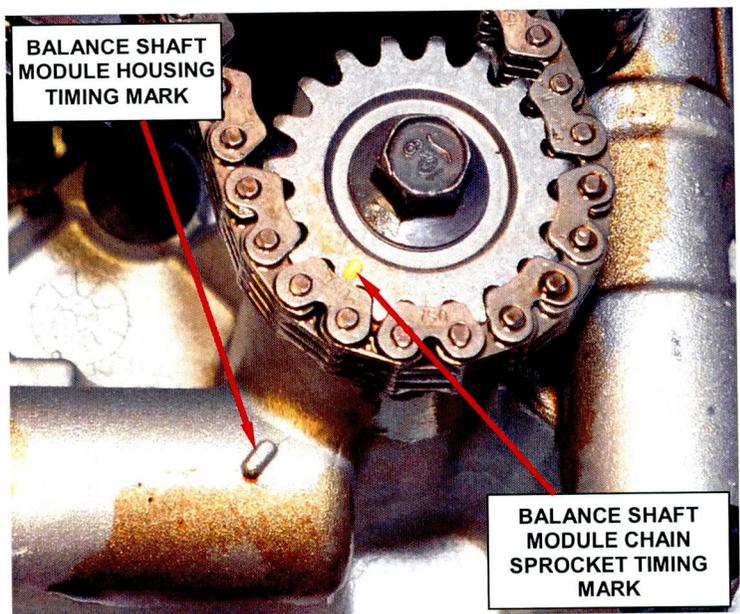
**Service Procedure (Continued)**



**Figure 3 – Timing Chain Cover Timing Marks**

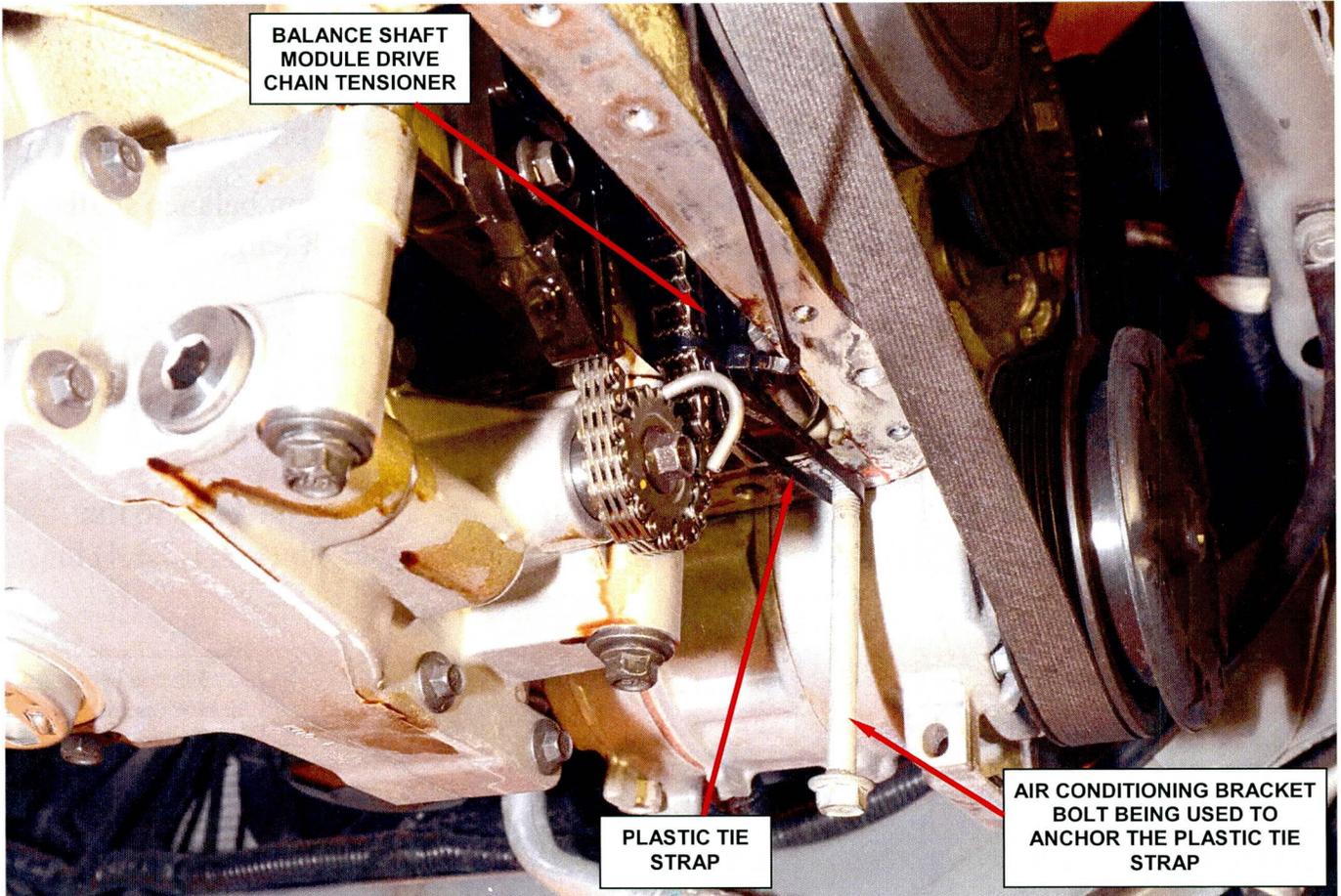
13. Bar the engine over and align the timing mark on the crankshaft accessory belt pulley with the “T” on the timing chain cover (Figure 3).
14. Verify that the mark on the balance shaft module chain sprocket aligns with the mark on the balance shaft module housing (Figure 4).

**NOTE: Do not use the colored chain links to time the balance shaft assembly.**



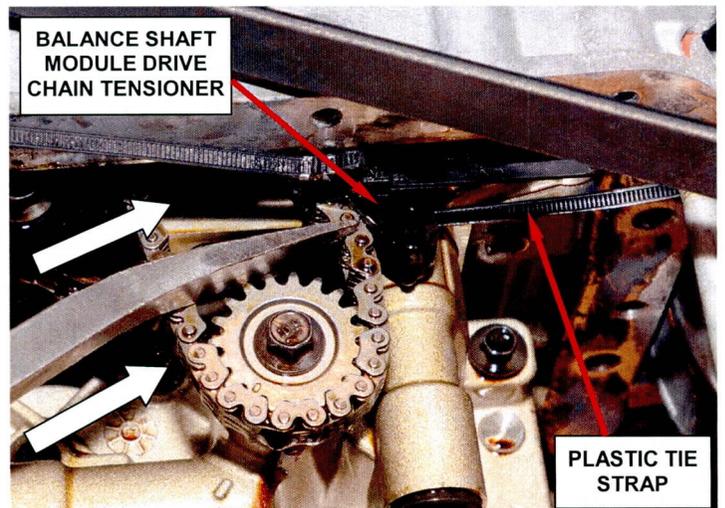
**Figure 4 – Timing Marks**

**Service Procedure (Continued)**



**Figure 5 – Relieve Balance Shaft Drive Chain Tension**

15. Install one air conditioning bracket bolt into the engine block oil pan rail as shown in Figure 5.
16. Using a screwdriver, collapse the balance shaft module drive chain tensioner (Figure 6).
17. Hold the collapsed balance shaft module drive chain tensioner in the collapsed position while tightening the plastic tie strap as shown in Figure 5.



**Figure 6 – Compress Balance Shaft Module Drive Chain Tensioner**

**Service Procedure (Continued)**

18. Remove and save the four balance shaft module mounting bolts.
19. Carefully remove and discard the balance shaft module from the engine.
20. Thoroughly clean the oil pan mounting surface on the engine block.
21. The balance shaft kit comes with four 180 mm and four 185 mm balance shaft module mounting bolts. Use the four bolts that match the bolt length removed from the engine.
22. Verify that the timing marks on the balance shaft module chain sprocket align with the mark on the balance shaft housing and install the new balance shaft module to the engine (Figure 4).
23. Install the four balance shaft module mounting bolts. Tighten the bolts to the following three step torque sequence (a,b,c) and in the order shown (1,2,3,4) in Figure 7:

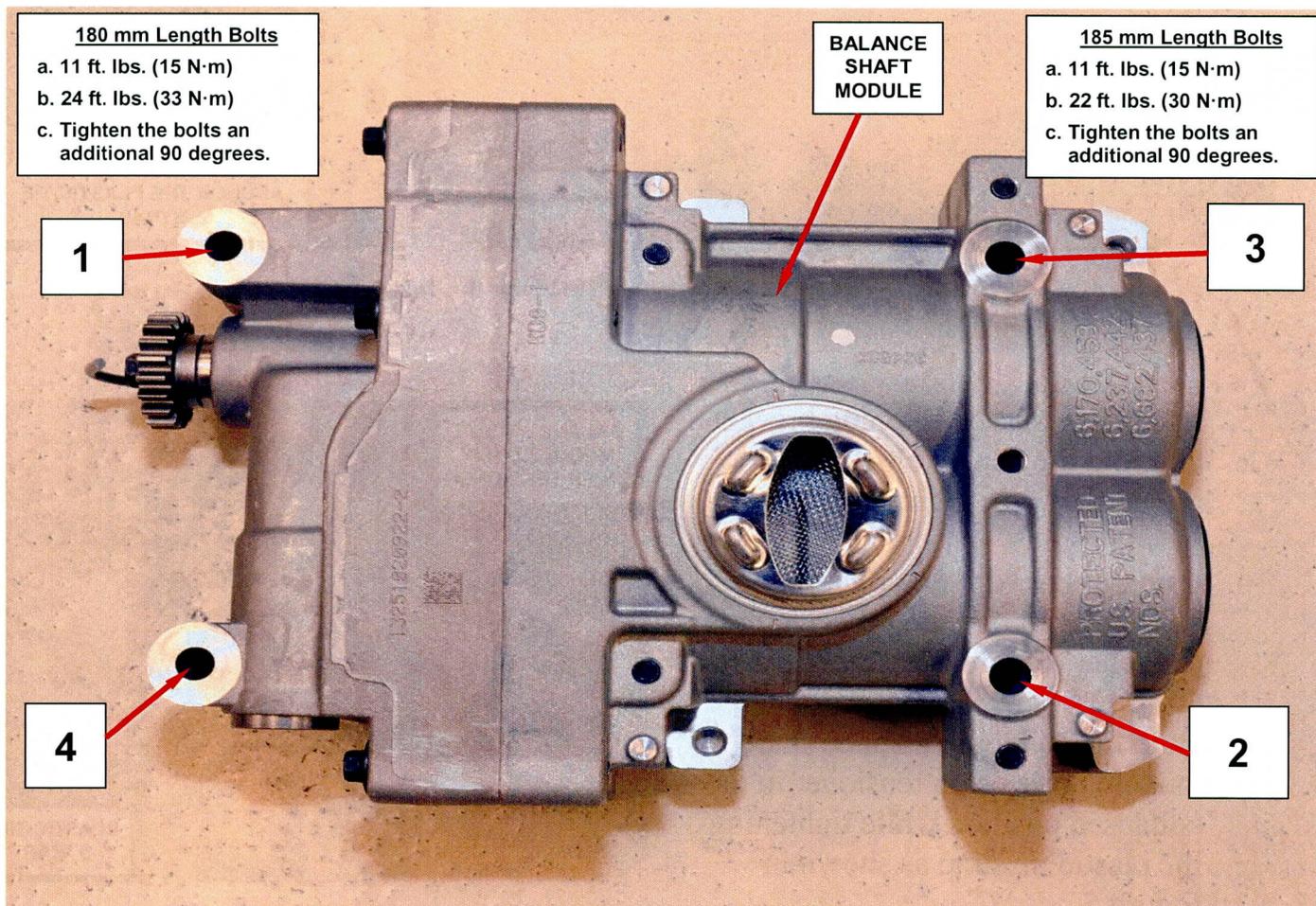
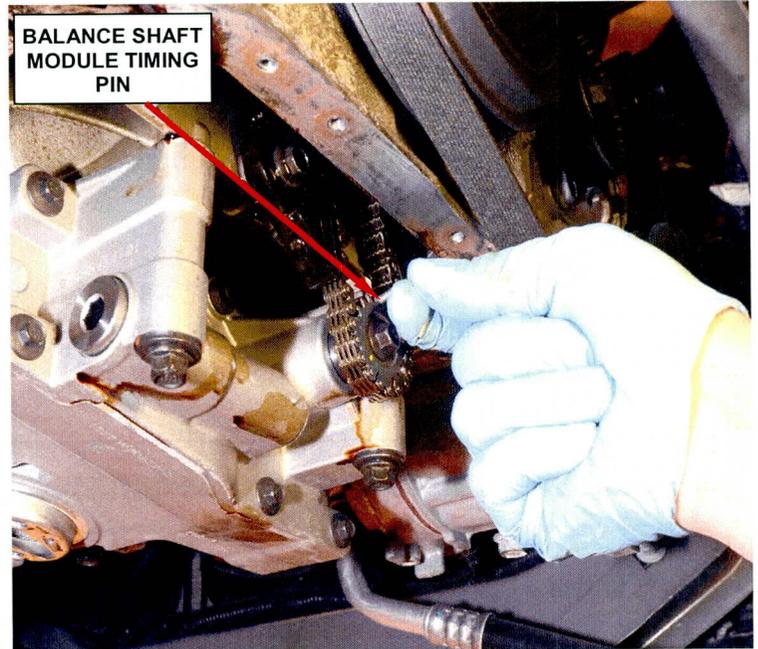


Figure 7 – Balance Shaft Module Mounting Bolt Tightening Sequence and Specification

**Service Procedure (Continued)**

24. Remove the plastic tie strap and ensure that the balance shaft module drive chain tensioner is tight against the chain.
25. Remove and discard the balance shaft module timing pin (Figure 8).
26. If the original engine oil pan is being reused, clean the oil pan rail thoroughly.

**NOTE: Be sure that there is no oil residue on the oil pan rail by spraying brake clean on a rag and wipe the oil pan rail to ensure that there is no oil residue on the oil pan rail surface.**



**Figure 8 – Balance Shaft Module Timing Pin**

27. Apply RTV engine sealant to the oil pan rail.
28. Spray brake clean onto a rag and wipe the engine oil pan mounting surface on the engine block to ensure that there is no oil residue on the engine block.
29. Install the engine oil pan and air conditioning compressor lower mounting bracket onto the engine block. Tighten the engine oil pan bolts to 105 in. lbs. (12 N·m). Tighten the two long oil pan bolts to 195 in. lbs. (22 N·m).
30. Install the right side engine splash shield.
31. Install the right front tire/wheel assembly. Tighten the lug nuts to:
  - 100 ft. lbs. (135 N·m) for JC and JS models.
  - 92 ft. lbs. (125 N·m) for MK models.
32. Lower the vehicle from the hoist.

**Service Procedure (Continued)**

- 33. Install the engine dipstick.
- 34. Fill the vehicle with 5 quarts of engine oil.
- 35. Start the engine and allow engine oil pressure to build. Turn off engine after engine oil pressure has stabilized.
- 36. Recheck the engine oil level and add engine oil as required. An extra quart of engine oil may need to be added to bring the oil level to the full mark on the engine dipstick.

**Completion Reporting and Reimbursement**

Claims for vehicles that have been serviced must be submitted on the DealerCONNECT Claim Entry Screen located on the Service tab. Claims submitted will be used by Chrysler to record recall service completions and provide dealer payments.

Use the following labor operation number and time allowance:

	<b>Labor Operation Number</b>	<b>Time Allowance</b>
Replace engine balance shaft module	09-N5-21-82	1.3 hours

Add the cost of the recall parts package plus applicable dealer allowance to your claim.

NOTE: See the Warranty Administration Manual, Recall Claim Processing Section, for complete recall claim processing instructions.

**Dealer Notification**

To view this notification on DealerCONNECT, select “Global Recall System” on the Service tab, then click on the description of this notification.

### **Owner Notification and Service Scheduling**

All involved vehicle owners known to Chrysler are being notified of the service requirement by first class mail. They are requested to schedule appointments for this service with their dealers. A generic copy of the owner letter is attached.

Enclosed with each owner letter is an Owner Notification postcard to allow owners to update our records if applicable.

### **Vehicle Lists, Global Recall System, VIP and Dealer Follow Up**

All involved vehicles have been entered into the DealerCONNECT Global Recall System (GRS) and Vehicle Information Plus (VIP) for dealer inquiry as needed.

GRS provides involved dealers with an updated VIN list of their incomplete vehicles. The owner's name, address and phone number are listed if known. Completed vehicles are removed from GRS within several days of repair claim submission.

To use this system, click on the “**Service**” tab and then click on “**Global Recall System.**” Your dealer's VIN list for each recall displayed can be sorted by: those vehicles that were unsold at recall launch, those with a phone number, city, zip code, or VIN sequence.

**Dealers must perform this repair on all unsold vehicles before retail delivery.** Dealers should also use the VIN list to follow up with all owners to schedule appointments for this repair.

*Recall VIN lists may contain confidential, restricted owner name and address information that was obtained from the Department of Motor Vehicles of various states. Use of this information is permitted for this recall only and is strictly prohibited from all other use.*

### **Additional Information**

If you have any questions or need assistance in completing this action, please contact your Service and Parts District Manager.

Customer Services / Field Operations  
Chrysler Group LLC