



Preliminary Information

PIP5081L (EREV) Whine, Scrape, Whistle Type Noise While Driving, P0A46

Models

| Brand: | Model: | Model Years: | VIN: | | Engine: | Transmissions: |
|-----------|--------|--------------|------|-----|---------|----------------|
| | | | from | to | | |
| Chevrolet | Volt | 2011 - 2015 | All | All | All | All |
| Cadillac | ELR | 2014 - 2016 | All | All | All | All |
| Opel | Ampera | 2012 - 2014 | All | All | All | All |

Supersession Statement

This PI was superseded update model year for the ELR and add P0A46 to the title, Please discard PIP5081K.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition / Concern

Some customers may comment on a whistle, scrape or whine type noise while driving that may be more noticeable during regenerative braking.

Technicians may find this noise emanating from the left side of the drive unit (transmission). The tech may also state that the vehicle has a current or history code P0A46.

Recommendations / Instructions

This noise may be caused by a separated electric drive motor B rotor bearing cage. A revised bearing has been released for installation into the drive unit.

It is not necessary to remove the drive unit or motor for this repair. Follow SI (Document ID 2838728) on vehicle service, drive motor rotor bearing replacement procedure.

During repairs inspect the end cover for any abnormal bushing wear, if found the side cover will also require replacement, however if no abnormal wear is found the cover can be reinstalled.

Important: Please ensure that the Special Tools DT-47865 - Bearing Remover and J-45124 - Removal Bridge are used to remove bearing. If proper tools are not used the rotor may be damaged leading to a repeat repair. DO NOT TRY TO PRY OUT.



Important: To install bearing use Special Tools DT-22928-B Seal Installer per SI, as damage may occur if the proper tools are not utilized. Proper bearing orientation is the writing up or visible to technician.



Please also order and replace the rotor shaft seal this could be damage during bearing removal or installation

The side cover must be inspected in the bearing seating area as well as the bushing and resolver area.

THE SIDE COVER AND THE TRANSMISSION COOLER MUST BE FLUSHED TO PREVENT RECONTAMINATION OF THE NEW BEARING.

If the side cover or bushing are found to be damaged replace side cover.

If any debris is on the rotor or side of transmission this should be cleaned/flushed with transmission still in vehicle.

The transmission cooler also must be flushed.

Note: Please make sure you submit the Flush warranty code with the Labor operation

To do this the cooler thermostatic bypass must be removed.

Place failed bearing in a plastic bag as it may be requested back for analysis.

If this vehicle was previously repaired with the new bearing and the noise returned, contact TAC for diagnosis and repair instructions.

Parts Information

| Model Year | Part Number | Description |
|------------|-------------|---------------------------------------|
| 2011-2016 | 24259842 | Drive Motor Rotor Bearing |
| 2011-2016 | 24234780 | Drive Motor/Generator Rotor Lube Seal |

Warranty Information

For vehicles repaired under the EV coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

| Labor Operation | Description | Labor Time |
|--|---------------------------------------|------------------------------------|
| 8466800 | Drive Motor Rotor Bearing Replacement | Use Published Labor Operation Time |
| Please make sure you have the warranty flush code (depend ency code) when using this Labor Operation | | |

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.



© 2019 General Motors. All Rights Reserved.