



Preliminary Information

PIP5676A MIL Due To P06DE and may also have P0521

Models

| Brand:    | Model:   | Model Years: | VIN: |     | Engine:     | Transmissions: |
|-----------|----------|--------------|------|-----|-------------|----------------|
|           |          |              | from | to  |             |                |
| Buick     | Envision | 2015 - 2019  | All  | All | LCV LTG     | All            |
| Buick     | LaCrosse | 2015 - 2019  | All  | All | LHN         | All            |
| Buick     | Regal    | 2014 - 2019  | All  | All | LTG         | All            |
| Cadillac  | ATS      | 2013 - 2019  | All  | All | LCV LTG     | All            |
| Cadillac  | CT6      | 2016 - 2019  | All  | All | LTG         | All            |
| Cadillac  | CTS      | 2014 - 2019  | All  | All | LTG         | All            |
| Chevrolet | Blazer   | 2019         | All  | All | LCV         | All            |
| Chevrolet | Camaro   | 2016 - 2019  | All  | All | LTG         | All            |
| Chevrolet | Colorado | 2015 - 2019  | All  | All | LCV         | All            |
| Chevrolet | Equinox  | 2019         | All  | All | LTG         | All            |
| Chevrolet | Impala   | 2013 - 2019  | All  | All | LCV LKW     | All            |
| Chevrolet | Malibu   | 2013 - 2019  | All  | All | LCV LKW LTG | All            |
| Chevrolet | Traverse | 2017 - 2019  | All  | All | LTG         | All            |
| GMC       | Acadia   | 2016 - 2019  | All  | All | LCV         | All            |
| GMC       | Canyon   | 2015 - 2019  | All  | All | LCV         | All            |
| GMC       | Terrain  | 2017 - 2019  | All  | All | LTG         | All            |

|                            |                                                                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Involved Region or Country | North America                                                                                                                                                                                                          |
| Condition                  | A customer may come into the dealer for the check engine light being illuminated. The technician may find P06DE stored in the ECM as a history code. The technician may also find P0521 set in history with the P06DE. |
| Cause                      | The cause of this concern may be foreign material stuck between the cold start checkball and its seat.                                                                                                                 |

Correction:

The technician needs to follow SI diagnostics for P06DE.

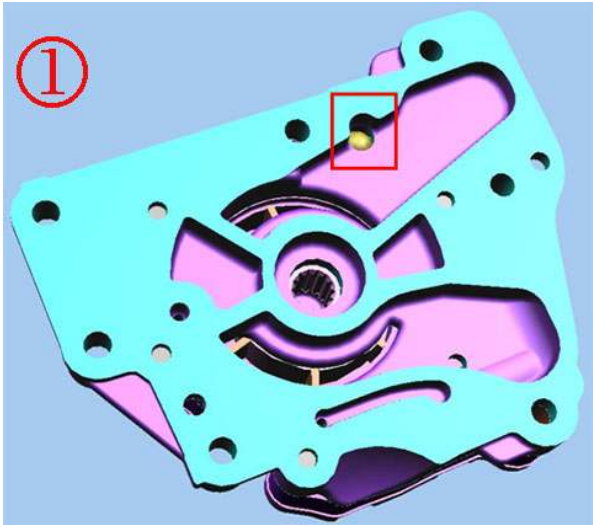
When following SI diagnostics for P06DE, if diagnostics lead to inspecting the oil pump or the engine oil pressure is in specification but very low or below specification, inspect the cold start checkball and seat for having foreign material stuck between them. The checkball should be seated fully against the seat in the pump. Look very close because the foreign material can be very small.

If foreign material is found between the cold start checkball and seat, remove the foreign material and reinstall the engine oil pump and road test the vehicle.

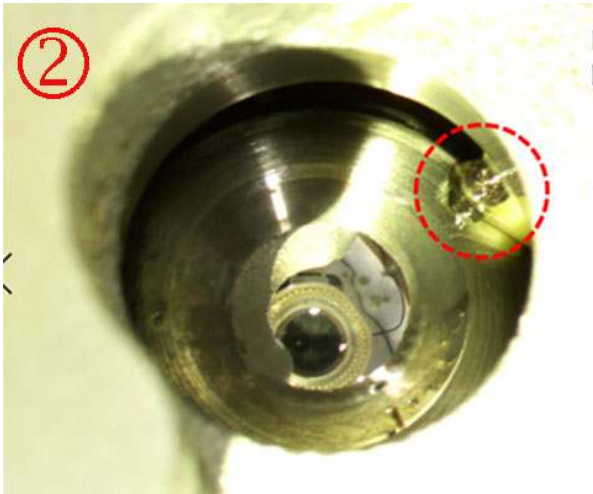
If no foreign material is found between the cold start checkball and seat, replace the balancer assembly which includes the oil pump assembly.

If P06DE continues to reset and following P06DE SI diagnostics again does not lead to a resolution, replace the engine assembly.

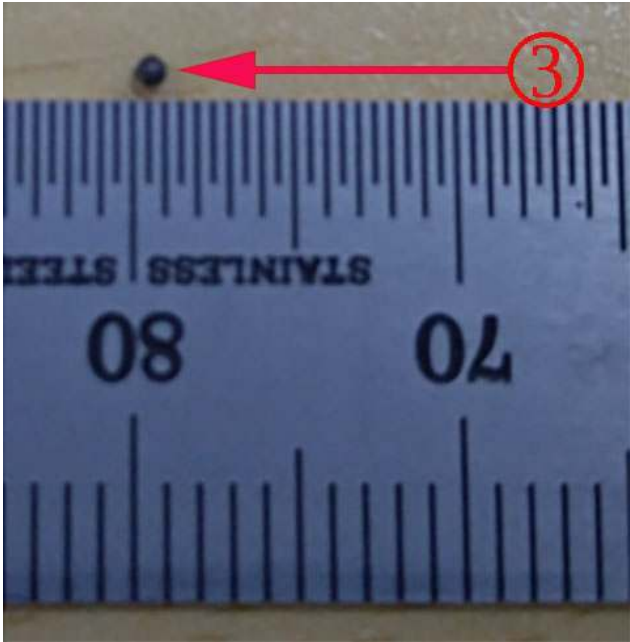
Engine oil pump cold checkball and seat location



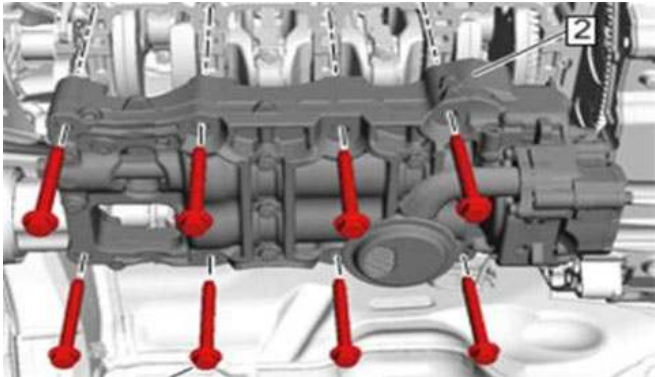
Foreign debris



The foreign debris can be very small



Balancer assembly which includes the engine oil pump assembly



Warranty Information

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

| Labor Operation | Description                              | Labor Time               |
|-----------------|------------------------------------------|--------------------------|
| 4066070         | Oil Pump Replacement                     | Use Published Labor Time |
| 4066320         | Balancer Shaft with Oil Pump Replacement | Use Published Labor Time |

| Labor Operation | Description        | Labor Time               |
|-----------------|--------------------|--------------------------|
| 4067490         | Engine Replacement | Use Published Labor Time |

Version History

|          |                                                                           |
|----------|---------------------------------------------------------------------------|
| Version  | 2                                                                         |
| Modified | 09/16/2019 - Created on<br>09/23/2019 - Added additional labor operations |



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