



Preliminary Information

PIP5349A Knocking Noise Under Light Load

Models

| Brand: | Model: | Model Years: | VIN: | | Engine: | Transmissions: |
|-----------|----------|--------------|------|-----|----------|----------------|
| | | | from | to | | |
| Buick | Enclave | 2012 | ALL | ALL | 3.6L LLT | ALL |
| Chevrolet | Traverse | 2012 | ALL | ALL | 3.6L LLT | ALL |
| GMC | Acadia | 2012 | ALL | ALL | 3.6L LLT | ALL |

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

Supersession Statement:

This PI was superseded to update Parts information. Please discard PIP5349.
The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Customer may complain of a knocking noise from the engine under light load while driving with engine speed between 1100 and 1800 rpm.

Condition / Concern

Generally this noise will be heard inside the vehicle more prominently than under the hood.
Prior to engine disassembly, follow these recommendations.

Recommendations / Instructions

Using a stethoscope or chassis ears, listen for this knock at the intake manifold and at the lower engine.
We have seen some concerns where the internal air horns of the intake will resonate against the outside of the housing causing a knock.
This knock can sound like a piston or rod knock at times and lead to unnecessary engine inspection or replacement.
If the noise is more noticeable in the intake manifold, then replace the upper intake manifold assembly and reevaluate the concern.
If the noise is still present then continue with normal diagnosis for an engine knock concern.

Parts Information

| Part Number | Description | Quantity |
|-------------|----------------------------------|----------|
| 12648915 | Upper Intake Manifold | 1 |
| 12647263 | Upper Intake Manifold Gasket kit | 1 |

Warranty Information

For Vehicles Repaired Under Warranty:

| Labor Operation | Description | Labor Time |
|-----------------|-----------------------------|------------------------------------|
| 4060450 | Intake Manifold Replacement | Use Published Labor Operation Time |

