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Other Languages:	NONE	Author:	William Katschke
Viewed:	130		

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Coding Information

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Title: Unable To Turn Steering Wheel With Engine At Idle Speed**Applies To:** LT w/ X15

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

10/13/2017 - Initial Article Release

DESCRIPTION

This document will guide the user through steering diagnostics for complaint of "Unable to turn steering wheel with engine at idle speed".

SYMPTOM(s)

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

Not Applicable

DTC/Light	Description
N/A	N/A

Customer Observations or Concerns:

Unable to turn steering wheel with engine at idle speed

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Power Steering Analyzer / Flowmeter	OTC5079	N/A	N/A

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
Power Steering Pump	See Notes	1	Refer to Parts Catalog

DIAGNOSTIC STEP(s)



WARNING:

To prevent property damage, personal injury, and / or death, park vehicle on a hard, flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.



WARNING:

To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.



WARNING:

To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.



WARNING:

To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.



WARNING:

To prevent property damage, personal injury, and / or death, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

1. Bring vehicle into shop and park on a flat surface
2. Shift transmission into park or neutral, set parking brake, and install wheel chocks
3. Open the hood
4. Obtain Troubleshooting Checklist: [Sheppard Power Steering Troubleshooting Checklist](#)
5. Connect Steering Analyzer

**WARNING:**

To prevent property damage, personal injury or death, watch the power steering analyzer pressure gauge closely when closing the shutoff valve. A bad relief valve may not relieve pump pressure and cause pump damage or a high pressure hose to rupture. If pressure rises rapidly or goes above 2500 PSI. **STOP**

CAUTION:

Do not leave the valve closed for more than a few seconds.

CAUTION:

To prevent damage to steering pump, immediately open shutoff valve when pressure relief valve opens.

6. Follow the troubleshooting steps:

1. If Maximum System Pressure (Pump Relief Setting) at Engine Idle or Max RPM is *below 2000 PSI* stop diagnostics and replace power steering pump.
2. If Maximum System Pressure (Pump Relief Setting) at Engine Idle and Max RPM *goes above 2000 PSI* continue following the Troubleshooting Check List.

REPAIR STEP(s)

1. Replace power steering pump (if required): [LT/RH Technician Manual \(Service & Diagnostic\)](#)
2. Verify proper operation

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

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