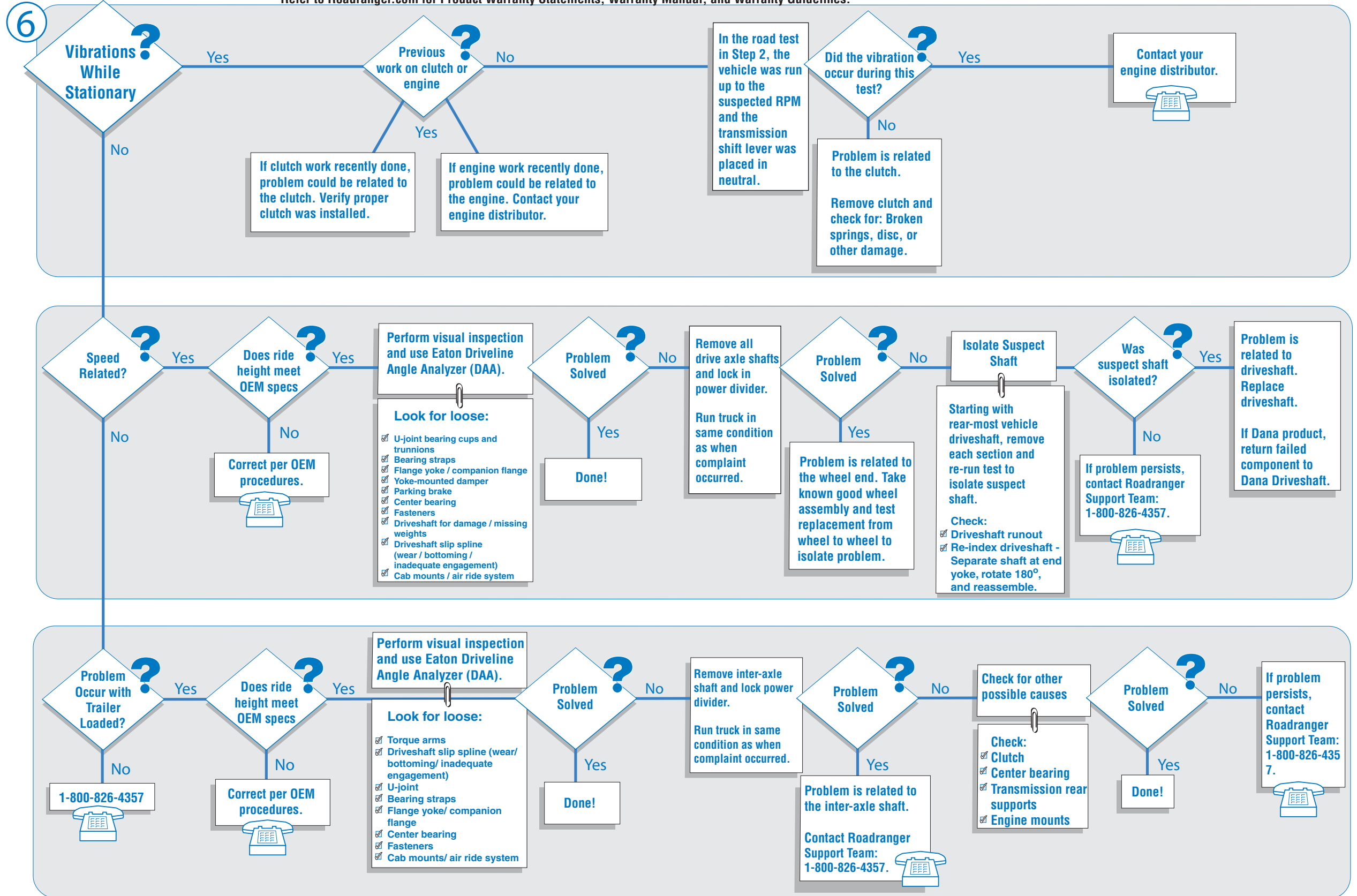


Vibration Diagnostics

Important: Use factory service manuals and procedures and refer to all applicable safety precautions when servicing vehicles.
 This document is intended to assist with drivetrain vibration diagnosis. It does not guarantee an immediate solution nor does it guarantee warranty responsibility or reimbursement.
 Refer to Roadranger.com for Product Warranty Statements, Warranty Manual, and Warranty Guidelines.

Start

- 1 Gather Info**
 When did vibration start?
 Where is vibration felt?
 What road conditions?
 Under load or high torque conditions?
 During acceleration/deceleration?
 Speed dependent?
 RPM dependent?
 Noise?
 Suspension modified recently?
 Lube clean and at proper level?
- 2 Road Test**
 Have vehicle driver recreate complaint condition, if possible
 Leave trailer attached
 Run up to suspected RPM and put transmission in neutral
- 3 Simulate Conditions**
 Speed
 RPM
 Gear Position
 Coast
 Under power
 Loaded / Unloaded
- 4 Record Findings**
 Speed
 RPM
 Gear position
 Coast
 Under power
 Loaded / Unloaded
- 5 Stationary Inspection**
 Tires
 Rims
 Dented driveshaft tubing
 Engine supports
 Transmission supports
 Driveshaft center bearing



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1 (877) 776-4600

(407) 872-1901

parts@eprogear.com

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Orlando, FL 32805



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