

2008 Chevrolet Equinox LS

2008 DRIVELINE/AXLE Wheel Drive Shafts - Equinox & Torrent

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SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Application	Specification	
	Metric	English
Front Lower Stabilizer Bar Link Nut	65 N.m	48 lb ft
Front Outer Tie Rod Stud Nut	50 N.m	37 lb ft
Front Wheel Drive Shaft Spindle Nut	205 N.m	151 lb ft
Intermediate Drive Shaft-to-Bracket Bolts	30 N.m	22 lb ft
Intermediate Drive Shaft Support Bracket Mounting Bolts - L61	35 N.m	26 lb ft
Intermediate Drive Shaft Support Bracket Mounting Bolts - L66	50 N.m	37 lb ft
J-44015 Steering Linkage Installer	40 N.m	30 lb ft
Lower Ball Joint Stud Nut	40 N.m	30 lb ft
Rear Lower Control Arm-to-Suspension Knuckle Bolt and Nut	110 N.m	81 lb ft
Rear Lower Jounce Bumper Nut	63 N.m	46 lb ft
Rear Shock Absorber Lower Mounting Bolt	110 N.m	81 lb ft
Rear Stabilizer Link-to-Control Arm Nut	15 N.m	11 lb ft
Rear Wheel Drive Shaft Spindle Nut	205 N.m	151 lb ft

COMPONENT LOCATOR

WHEEL DRIVE SHAFTS DISASSEMBLED VIEWS

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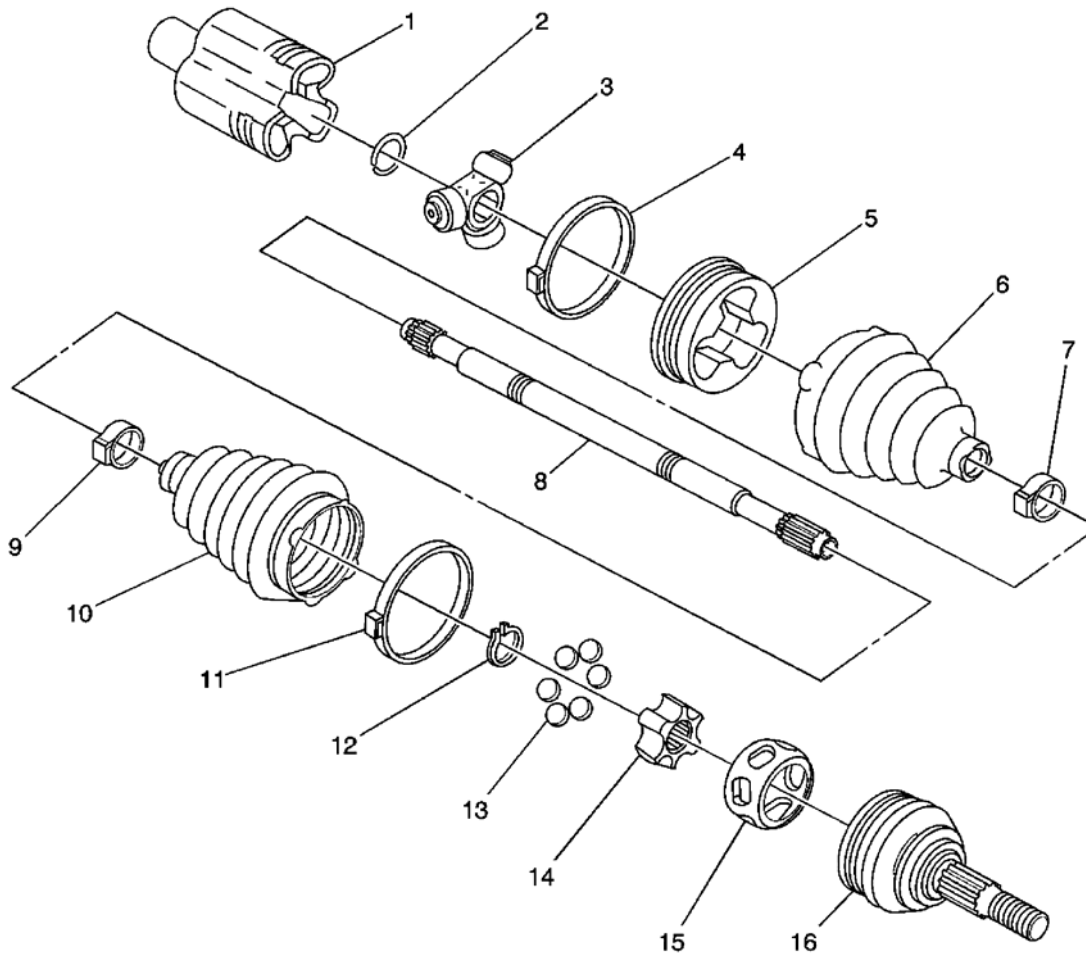


Fig. 1: Tripot Design Wheel Drive Shaft Disassembled View
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	Retainer and Housing Assembly
2	Retaining Ring
3	Tripot Joint Spider Assembly
4	Boot Retaining Clamp
5	Tripot Trilobal Bushing
6	Inboard Boot
7	Boot Retaining Clamp
8	Axle Shaft
9	Boot Retaining Clamp
10	Outboard Boot
11	Boot Retaining Clamp
12	Race Retaining Ring
13	Ball Bearings
14	Tripot Joint Spider Assembly
15	Tripot Trilobal Bushing
16	Inboard Boot

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13	Chrome Alloy Ball
14	CV Joint Inner Race
15	CV Joint Cage
16	CV Joint Outer Race

DIAGNOSTIC INFORMATION AND PROCEDURES

DIAGNOSTIC STARTING POINT - WHEEL DRIVE SHAFTS

Begin the wheel drive shaft system diagnosis with the **Diagnostic Starting Point - Vibration Diagnosis and Correction** . The use of the Diagnostic Starting Point will help determine if the concern is wheel drive shaft related. When instructed to exit the Vibration Diagnosis and Correction diagnostic procedures, return to the Diagnostic Starting Point - Wheel Drive Shafts and proceed to **Wheel Drive Shafts Description and Operation** in order to become familiar with the design and function of the wheel drive shaft system. Reviewing the Description and Operation information will also help determine if the condition is a potential operating characteristic or not.

SYMPTOMS - WHEEL DRIVE SHAFTS

IMPORTANT: Complete the following steps prior to beginning the wheel drive shaft diagnosis.

1. Review the **Diagnostic Starting Point - Vibration Diagnosis and Correction** .
2. Perform the **Vibration Analysis - Road Testing** in order to effectively diagnose the concern.
3. Review the system operation in order to become familiar with the system function. Refer to **Wheel Drive Shafts Description and Operation**.

Visual/Physical Inspection

- Inspect for aftermarket equipment and modifications which could affect the operation of the wheel drive shafts or other rotating components.
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.
- Thoroughly inspect the entire wheel drive shaft for visible damage, leaking joint seals, and missing seal clamps.
- Inspect the wheel drive shaft seals for cuts, tears, or other damage which may allow the loss of lubricant and the entry of contaminants.

Symptom List

After performing the Visual/Physical Inspection and no visual signs of damage or other interference impairing the wheel drive shaft function is apparent, it may be necessary to remove the wheel drive shaft from the vehicle and manipulate the joints manually. Any binding or otherwise impeded movement of the joints may indicate damage which could contribute to the concern. Refer to the following:

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- **Click Noise In Turns**
- **Clunk When Accelerating from Coast**
- **Clunk Noise When Accelerating During Turns**
- **Shudder or Vibration During Acceleration**

CLICK NOISE IN TURNS

A constant velocity joint which is worn or damaged may cause a click noise during turns. This may be more apparent while simultaneously turning and accelerating. This click is caused by wear and/or damage to the constant velocity joint bearings and/or races. Commonly, this damage or wear is caused by the loss of lubricating grease from the constant velocity joint and the entry of foreign material or contaminants.

Carefully inspect the wheel drive shaft seals for cuts, tears or other damage which may allow the lubricating grease to escape. The loss of this grease will cause damage to the wheel drive shaft constant velocity joint in a very short period of time.

After the inspection reveals no visual evidence of wear or damage, it may be necessary to remove the wheel drive shaft from the vehicle and manipulate the inner and outer joints manually. Any binding or impeded movement of the joints may indicate damage which could contribute to the concern.

CLUNK WHEN ACCELERATING FROM COAST

A clunk noise occurring when accelerating from coast or a standing start may be caused by a worn or damaged wheel drive shaft cross groove joint. The common cause of wheel drive shaft cross groove damage is the loss of lubricating grease and/or the presence of foreign material and contaminants in the joint. This usually occurs as a result of a torn or damaged cross groove joint seal.

Carefully inspect the wheel drive shaft seal for cuts, tears or other damage that may allow the loss of the lubricating grease and/or the entry of contaminants.

After inspection reveals no visual evidence of wear or damage, it may be necessary to remove the wheel drive shaft from the vehicle and manipulate the joint manually. Do not allow the joint to separate from the wheel drive shaft bar. Any binding or impeded movement of the joints may indicate damage which could contribute to the concern.

CLUNK NOISE WHEN ACCELERATING DURING TURNS

A clunk noise that occurs while accelerating during turns may be caused by wear and/or damage to the inboard and the outboard joints in combination. The loss of lubricant and/or the presence of contaminants can cause damage to the internal components of the joints.

Carefully inspect the joint seals for cuts, tears or other damage. Joint seals that are damaged may allow lubricant leakage and the entry of contaminants.

After inspection reveals no visual evidence of wear or damage, it may be necessary to remove the wheel drive shaft from the vehicle and manipulate the joints manually. Do not allow the joints to separate from the wheel

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drive shaft bar. Any binding or impeded movement of the joints may indicate damage which could contribute to the concern.

SHUDDER OR VIBRATION DURING ACCELERATION

In order to diagnose a shudder or vibration during acceleration, refer to **Diagnostic Starting Point - Vibration Diagnosis and Correction** .

REPAIR INSTRUCTIONS

INTERMEDIATE SHAFT REPLACEMENT

Tools Required

- **J 2619-01** Slide Hammer. See **Special Tools**.
- **J 44467** Output Shaft Assembly Remover and Installer. See **Special Tools**.

Removal Procedure

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle**
2. Remove the wheel drive shaft assembly. Refer to **Front Wheel Drive Shaft Replacement**.

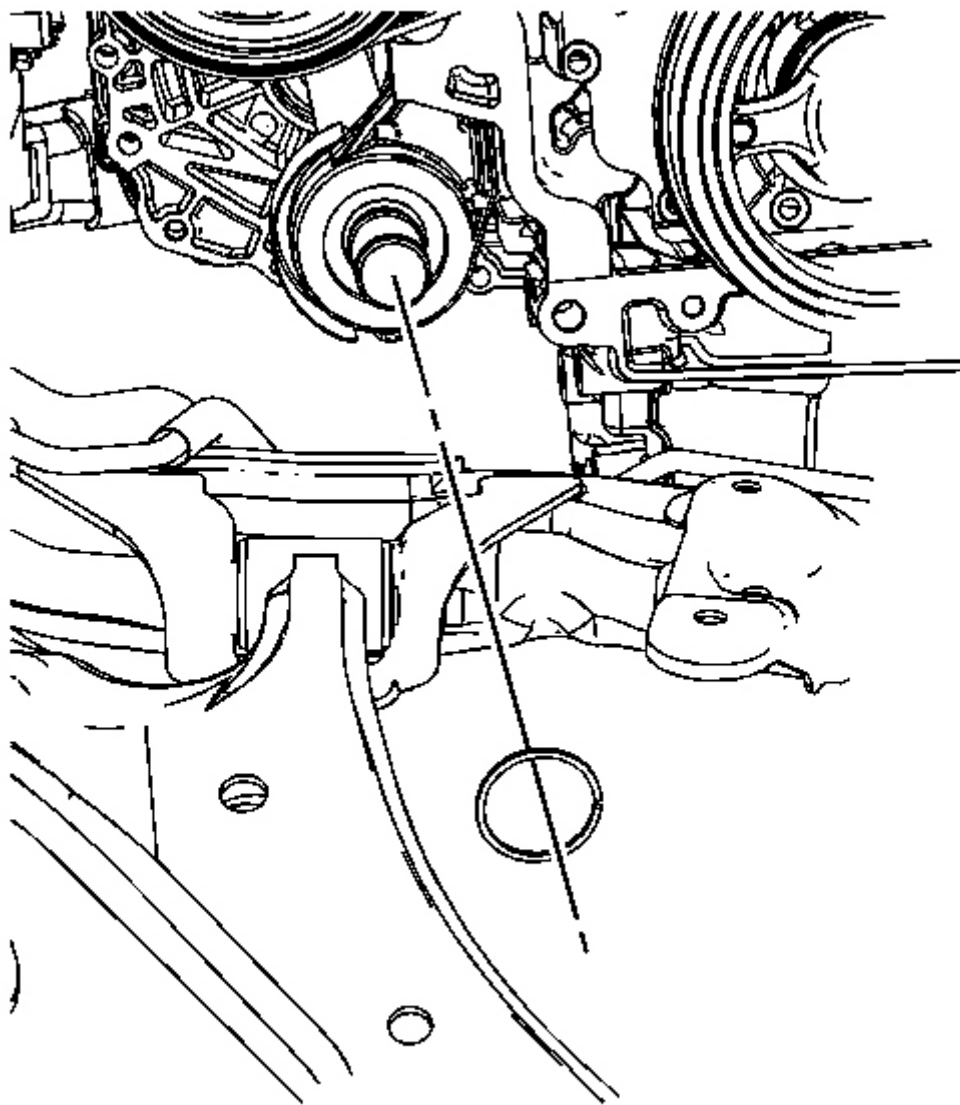


Fig. 2: View Of Wheel Drive Shaft Clip
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Remove the retaining ring. DO NOT re-use the retaining ring discard. Use NEW only.

3. Remove the retaining clip for the wheel drive shaft.

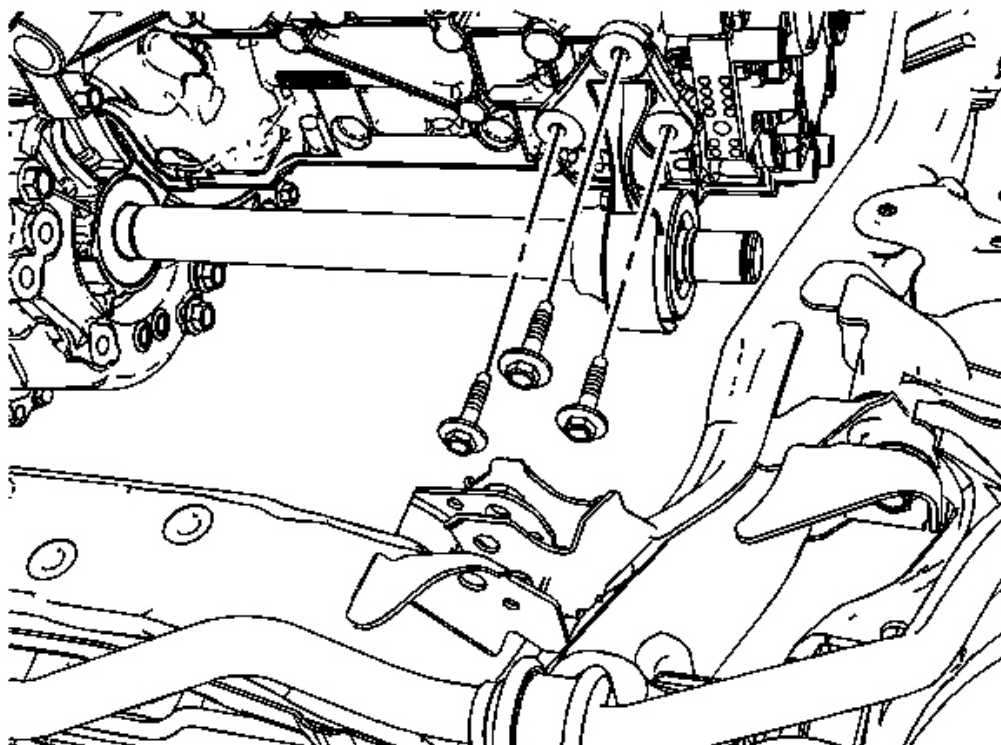


Fig. 3: Identifying Intermediate Shaft Support Bracket Mounting Bolts
Courtesy of GENERAL MOTORS CORP.

4. Remove the mounting bolts for the intermediate shaft support bracket.
5. Support the wheel drive shaft.

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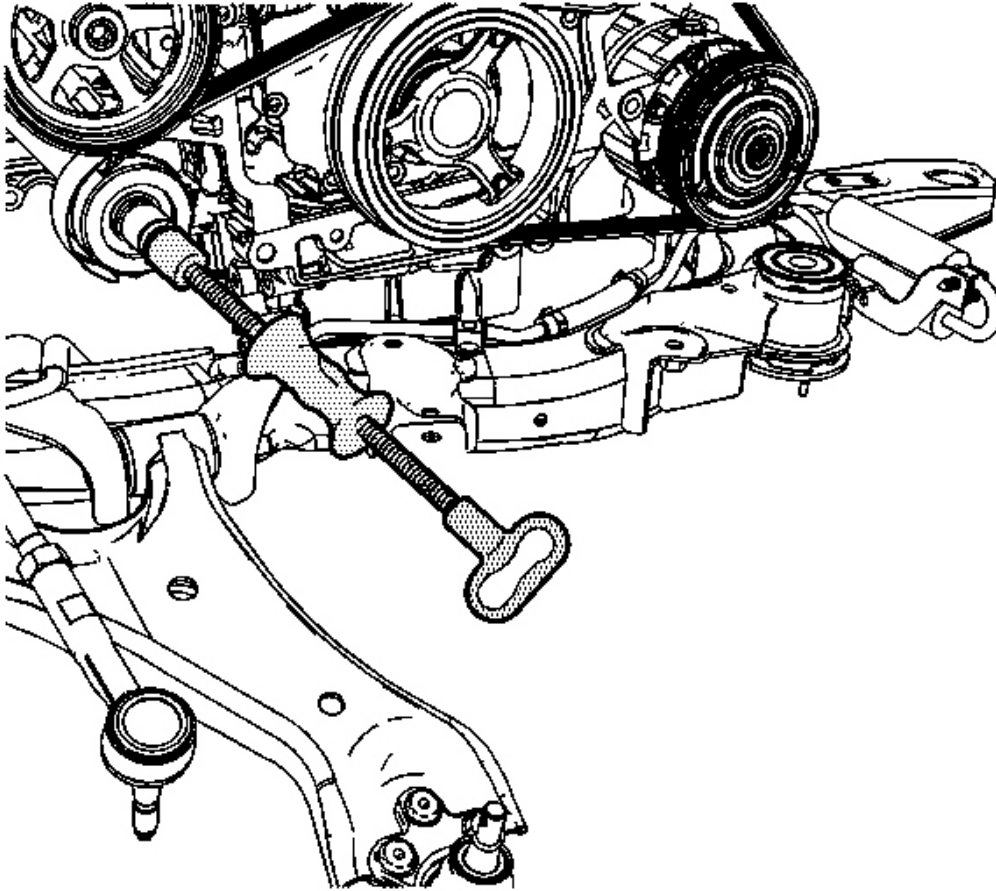


Fig. 4: Identifying Special Tools - J 44467 & J2619-01
Courtesy of GENERAL MOTORS CORP.

6. Assemble the **J 44467** and the **J 2619-01** . See **Special Tools**.
7. Install the **J 44467** and the **J 2619-01** in the retaining ring groove on the wheel drive shaft. See **Special Tools**.
8. Using the **J 44467** and the **J 2619-01** , remove the wheel drive shaft from the transmission. See **Special Tools**.

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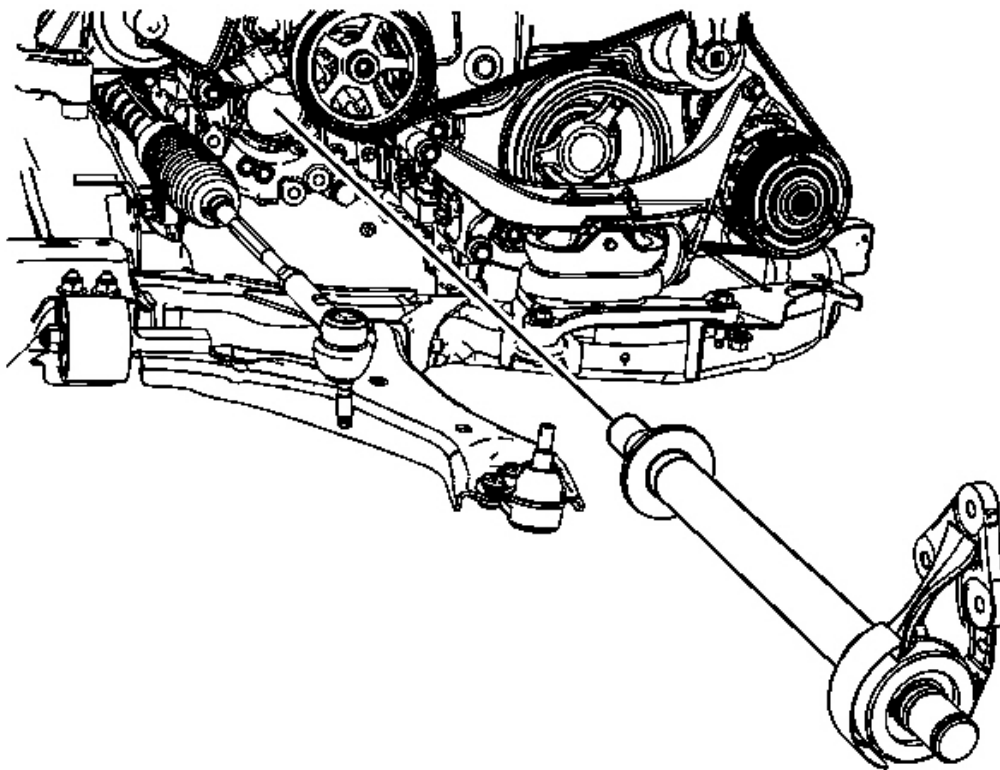


Fig. 5: View Of Wheel Drive Shaft
Courtesy of GENERAL MOTORS CORP.

9. Remove the wheel drive shaft from the vehicle.

Installation Procedure