



Technical Service BULLETIN

February 6, 2004

Title:

STEERING INTERMEDIATE SHAFT NOISE

Models:

'04 Sienna

TSB

REVISED

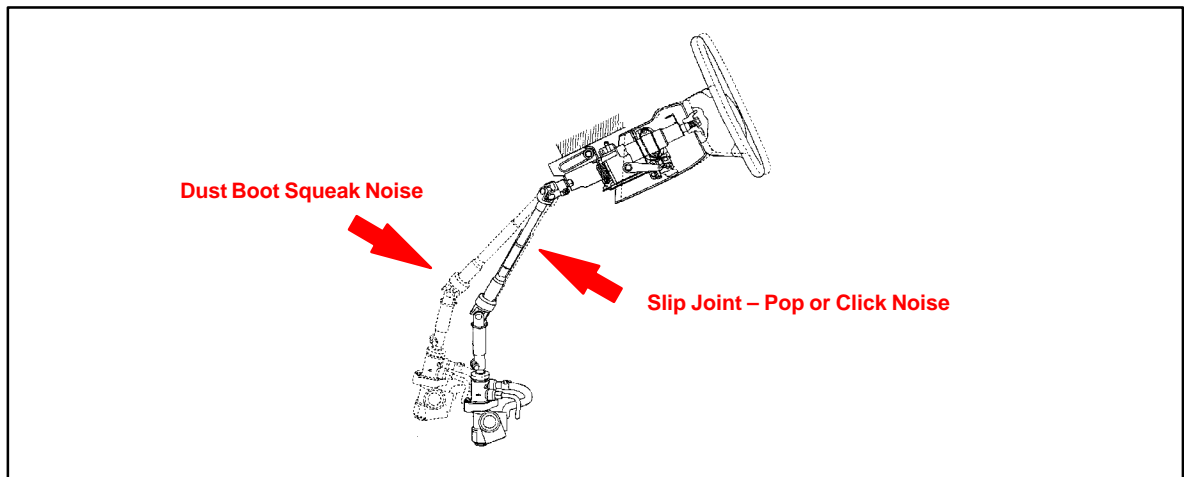
ST003-04

STEERING

TSB REVISION NOTICE:

April 29, 2004: The Required Tools and Material table has been added. All previous versions of this TSB should be discarded.

Introduction In some 2004 model year Sienna vehicles, a squeak, pop or click noise is heard or felt in the steering wheel while making turns. This bulletin provides repair procedures that have been developed to address these concerns.



- Applicable Vehicles** • 2004 model year **Sienna** vehicles produced **BEFORE** the Production Change Effective VINs shown below.

Production Change Information

MODEL	PRODUCTION CHANGE EFFECTIVE VIN
Sienna	5TDZA23C54S092747 5TDBA22C84S010934

Warranty Information

For Pop or Click Noise:

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
ST3009	R & R Steering Intermediate Shaft	0.9	45220-080#0	91	55

For Squeak Noise:

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
Combo A	Apply Grease to Steering Intermediate Shaft	0.3	45220-080#0	91	55

Applicable Warranty*:

This repair is covered under the Toyota Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

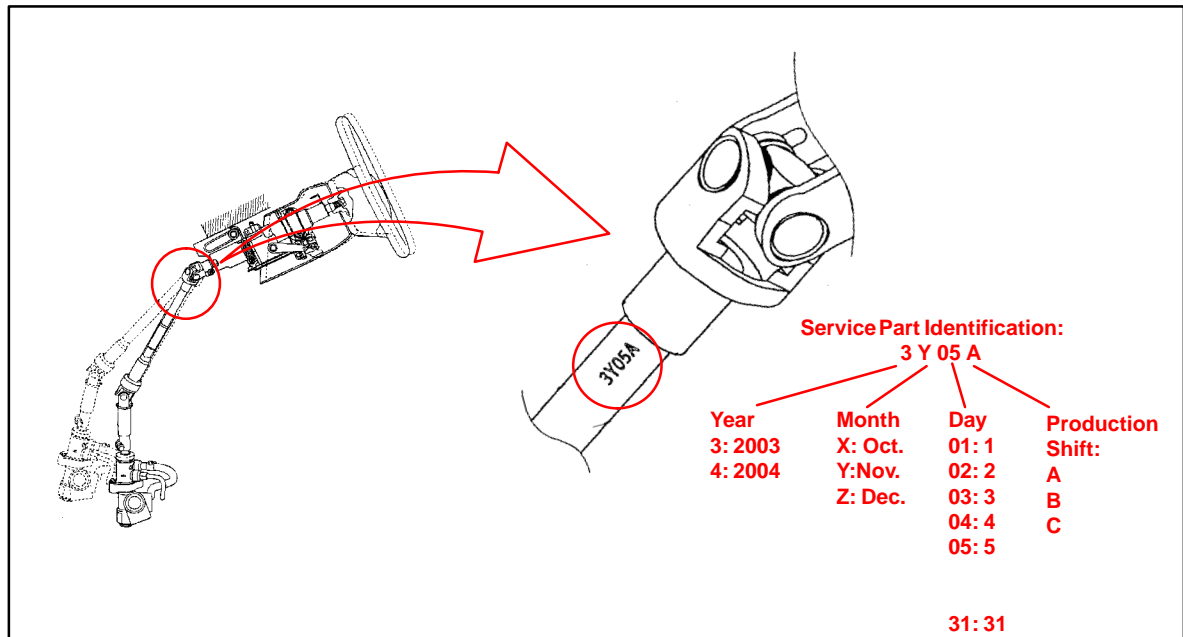
* Warranty application is limited to correction of a problem based upon a customer's specific complaint.



Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
45220-08040	Same	Shaft Assembly, Steering Intermediate (Front Wheel Drive)	1
45220-08050	Same	Shaft Assembly, Steering Intermediate (All Wheel Drive)	1

Countermeasure service parts are identified by the 5-digit date code located on the upper portion of intermediate shaft, just above the rubber grommet. Date code is 3Y05A, or last 2 numbers greater than 05.



Required Tools & Material

TOOLS & MATERIAL	PART NUMBER	QUANTITY
Dow Corning BR-2 Plus Multi-Purpose E.P. Grease	MA2144921	1 tube

NOTE:
 To order Dow Corning BR-2 Plus Multi-Purpose E.P. Grease, contact Applied Industrial Technologies at (518) 427-5800. One tube can be used for multiple repairs.

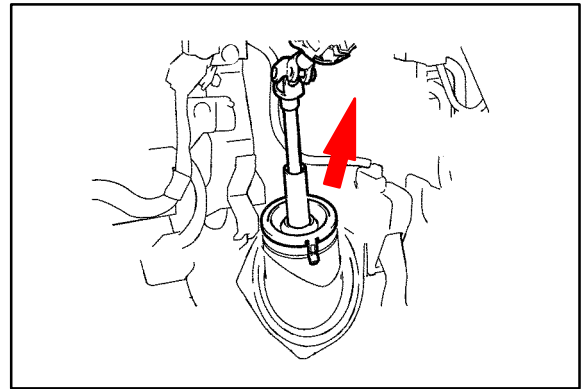
**Repair Procedure:
 Steering Pop or Click Noise**

Prior to removing the steering intermediate shaft, be sure the steering wheel and front wheels will not turn. Once the intermediate shaft is removed, the steering wheel may spin freely and become out of time with the steering rack.

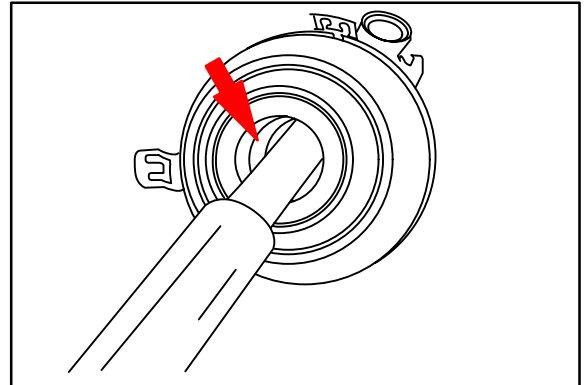
For information on replacing the steering intermediate shaft, refer to the Technical Information System (TIS) 2004 model year Sienna Repair Manual: *Steering Column: Steering Column Assy: Overhaul.*

**Repair
Procedure:
Squeak Noise**

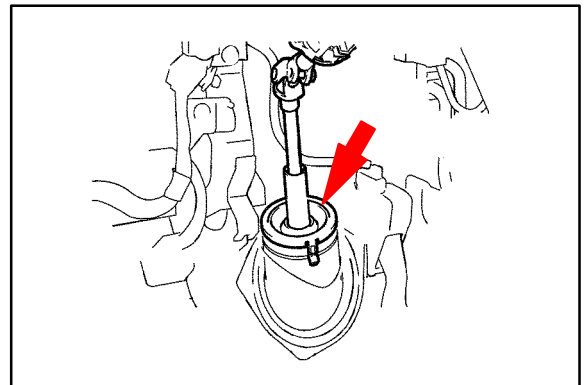
1. From inside the vehicle, locate the steering intermediate shaft dust boot. Unclip the three brass colored clips securing the dust boot to the floor.
2. Slide the dust boot up towards the steering wheel.



3. Apply Dow Corning BR-2 Plus Multi-Purpose E.P. Grease containing MOS2 to the inside diameter of the dust boot along all surfaces that contact the shaft.



4. Apply a small amount of this grease to the shaft where the dust boot makes contact. Gently slide the dust boot down and rotate it 360° just prior to locking back into position on the floor.
5. Secure the dust boot to the floor by re-clipping the three clips. Wipe off all excessive grease on shaft above boot.



NOTE:

Do not over extend the clips outward.