



Countries: RUSSIA, AUSTRALIA, BAHAMAS, BOLIVIA, BRAZIL, BELIZE, CANADA, CHILE, TAIWAN, COLOMBIA, COSTA RICA, DOMINICAN REPUBLIC, ECUADOR, EL SALVADOR, TRINIDAD AND TOBAGO, UNITED STATES, URUGUAY, VENEZUELA, MEXICO, ARUBA, NICARAGUA, PERU, PUERTO RICO, Curaçao, GUAM, GUATEMALA, GUYANA, HAITI, HONDURAS, JAMAICA, KOREA, SOUTH KOREA, NEW ZEALAND, PANAMA, SOUTH AFRICA

Document ID: IK0500054

Revision: 1

Created: 7/21/2015

Last Modified: 10/2/2015

Author: James Santos

Availability: ISIS

Major System: STEERING SYSTEM

Current Language: English

Other Languages: NONE

Viewed: 214

[Less Info](#)

Hide Details

Coding Information

Copy Link	Copy Relative Link	Bookmark	Add to Favorites	Print	Provide Feedback	Helpful	Not Helpful
		View My Bookmarks				11	0

Title: Steering Gear Seal Repair Guidelines**Applies To:** R.H. Sheppard Gears

CHANGE LOG

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

7/21/2015 - Initial Article Release

DESCRIPTION

This document will guide the user through properly identifying and repairing steering gear seal leaks.

SYMPTOM(s)

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

DTC/Light	Description
NA	
NA	

Customer Observations or Concerns:

Leaks, Seepage, around input shaft seal

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Pitman Arm Puller	ZTSE4439	only if needed	

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes	Feature Codes
Input Shaft Seal Kit	2585853C91	1	All M, MD, HD, and SD series gears	ALL Sheppard Gear Feature Codes
Bearing Cap/ End Cap seal kit	2588922C91	1	HD 94- Master Only	0005PSM
Sector Seal Kit	2590542C91	1	HD-94- All Sector Shaft Seal Kit w/Snap Ring	ALL HD Gears
Sector Seal Kit	2602863C91	1	M100- All Sector Shaft Seal Kit w/Snap Ring and L-Seal	ALL M Series Gears
Bearing Cap/End Cap Seal Kit	2585860C91	1	M100-Master Only End Cap Seal kit	0005PSJ

DIAGNOSTIC STEP(s)

Step	Action	Decision
#1	DIAGNOSTIC: Is there a leak at the steering gear	Yes. Proceed to step 2
		No. Identify whether leak is coming from steering or other components

Step	Action	Decision
#2	DIAGNOSTIC: Is there a leak at the fittings?	Yes Repair leak at fittings and proceed to step 3
		NO.

	Proceed to Step 3
--	-------------------

Step	Action	Decision
#3	DIAGNOSTIC: Inspect Input Shaft Seal for leakage. Is there any leakage coming from the input shaft seal? (<i>Refer to Figure 1</i>). 	Yes Follow service procedure #1 for Input shaft seal replacement in Service Procedure section of this iKNow
		No Proceed to Step 4

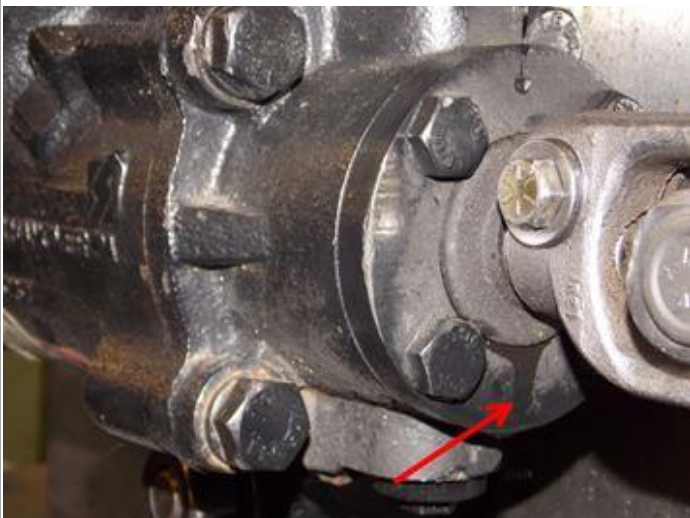


Figure # 1: Steering Gear Input

Step	Action	Decision
#4	DIAGNOSTIC:	

Is the bearing cap leaking? <i>(Refer to figure 2)</i>	Yes Follow bearing cap seal replacement service procedure #2 or #3 in the service procedure section of this iKNow No Proceed to step 5
---	--

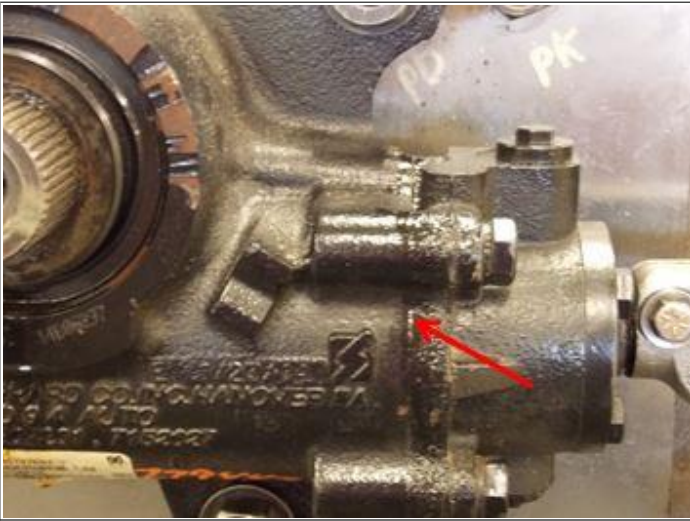
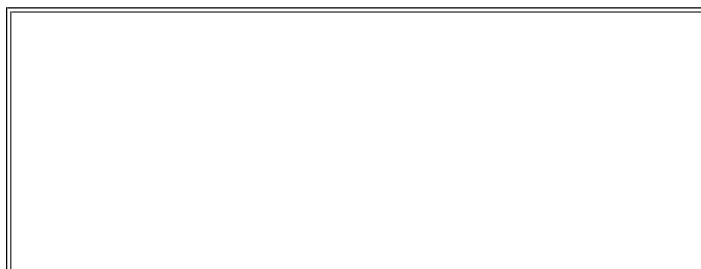


Figure # 2: Steering Gear Bearing CAP

Step	Action	Decision
#5	DIAGNOSTIC: Is sector shaft leaking? <i>(Refer to figure 3)</i>	Yes Follow Sector Shaft seal replacement service procedure #4 in the service procedure section of this iKNow
		No Repeat steps 1-5



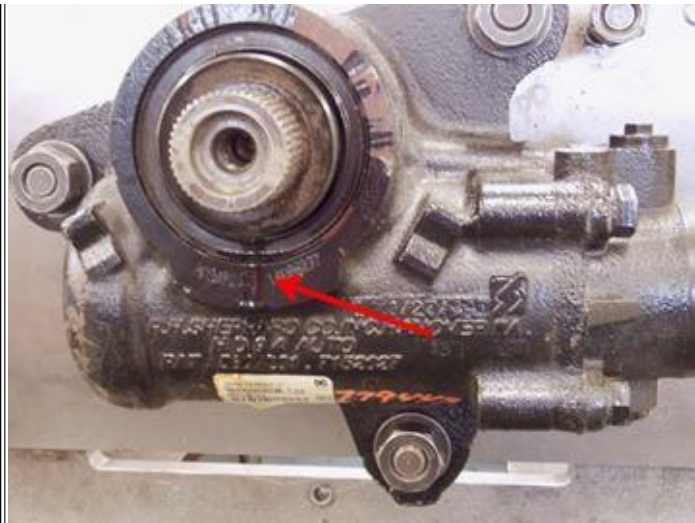


Figure #3 Sector Shaft

REPAIR STEP(s)

- #1. INPUT SHAFT SEAL REPLACEMENT FOR ALL MODEL GEARS- <http://www.rhsheppard.com/part09.htm>
- #2. BEARING CAP SEAL REPLACEMENT M-SERIES- <http://www.rhsheppard.com/part11.htm>
- #3. BEARING CAP SEAL REPLACEMENT D-SERIES- <http://www.rhsheppard.com/part12.htm>
- #4. SECTOR SEAL REPLACEMENT M AND D SERIES- <http://www.rhsheppard.com/part10.htm>

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	05000 - Steering System
Noun:	312 - Seals, Steering Gear

Standard Repair Time(s):

Description	Chassis	Engine	SRT
Input Shaft Seal Replacement	All	All	A05-173
Bearing Cap Replacement	All	All	A05-150
Sector Shaft Replacement	All	All	A05-130

Special Requirement:

Replacement of a complete gear assembly for a leak complaint will be charged back to the dealer for improper diagnoses and repair. Use correct repair procedures and parts for repairing a steering gear leak.

OTHER RESOURCES

[Master Service Information Site](#)

Hide Details

Feedback Information

Viewed: 213

Helpful: 11

Not Helpful: 0

No Feedback Found

Copyright © 2015 Navistar, Inc.