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Availability: ISIS, FleetISIS
Major System: STEERING SYSTEM
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Coding Information

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Title: RH Sheppard Bearing Cap Seal Replacement

Applies To: RH Sheppard HD94 Steering Gears *ONLY*

CHANGE LOG

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

11/05/2014 - Author updated for feedback purposes

DESCRIPTION

This article contains the instructions for replacing the HD94 Bearing Cap Seal on RH Sheppard Steering Gears.

SYMPTOMS

External Leaking of RH Sheppard HD94 steering gears between the main body and the Bearing Cap.

PARTS

NOTE:
 When completing the Bearing Cap Seal replacement, please refer to the Navistar Parts List below.

Parts	P/N	QTY	Socket Size	Note
Pinch bolt	3535854C1	1	Torque Socket	Use new bolt. Tighten bolt by torque head on bolt, continue until torque head snaps off
Pinch Nut	273896	1	18mm	Use new nut
Pinch bolt washer	25545R1	1	N/A	Re-use old washer
Seal KIT (HD94)	2588922C91		N/A	
Auto Plunger	2502491C1	1	N/A	Auto Plunger steering gears may require part number Navistar # 2502491C1 / Sheppard# 18212821K if the plunger is damaged during disassembly or reassembly.

NOTE:
 The following instructions is a revision to RH Sheppard instructions to fit Navistar trucks. When replacing the Bearing Cap Seal, please follow the RH Sheppard instructions. On Steps 6, 17, and 18 in the RH Sheppard instructions, please refer to the Navistar steps in this article.

RH Sheppard does not install fittings on steering gears.

Before performing the 'Bearing Cap Reseal Procedures', determine if the leak is coming from between the steering gear housing and or the steering relief plungers.

- If the leak is coming from the fittings, then correct the leaks at the fitting and DO NOT perform the 'Bearing Cap Reseal'.
- If the leak is coming from the Bearing Cap Seal, then perform the Bearing Cap Seal replacement.

REPAIR PROCEDURE

1. Open the [RH Sheppard Bearing Cap Seal Replacement instructions](#).

2. Follow the RH Sheppard instructions. When you reach Steps 6, 17, and 18, please refer to the following Navistar steps below:

Step 6:

In RH Sheppard's instruction Step 6: Turn the input shaft approximately 2 ¼ turns to bring piston up tightly against the bearing Cap.
Navistar Requires: Technician is to turn input shaft 2 ¼ turns in a right hand turn direction on ProStar model trucks.

Step 17:

In RH Sheppard's instruction Step 17: Torque the pinch bolt to the vehicle manufacturer's specs.

Navistar Requires: Technician is to use a new bolt. Tighten the bolt by torque head on bolt; continue until torque head brakes off.

Step 17:

In RH Sheppard's instruction Step 17: Attach the draglink to the pitman arm and torque to the manufacturer's specs.

Navistar Requires: Technician is to torque stud nut to 120 - 170 ft lbs at assembly, onto the vehicle. Continue tightening; **DO NOT BACK OFF**, to align the nut slot with the cotter hole to permit assembly of the cotter pin.

Step 18:

RH Sheppard's instruction Step 18: Check and correct relief plunger settings as required. Bleed any air from the system (if necessary) and return vehicle to service.

Navistar Requires: Step 18 MUST BE FOLLOWED BEFORE THE VEHICLE IS RELEASED TO SERVICE.

NOTE:
 When completing the Bearing Cap Seal replacement, please refer to the Navistar Torque Charts below.

Navistar Torque Charts:

Bearing Cap Bolts	Bolt Size	Grade	Torque ft/lbs	Torque NM	Socket Size
HD94	M14X2.0	8.8	114 - 140	(154-190)	21mm
SD110	M16X2.0	10.9	230 - 277	(312 - 376)	24mm

Drag Link Nut	Torque ft/lbs	Socket Size	Note
HD94	120 - 170	1 5/16	Torque stud nut to 120 - 170 Ft. Lbs. at assembly onto the vehicle. Continue tightening, DO NOT BACK OFF, to align the nut slot with the cotter hole to permit assembly of the cotter pin.

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