

Power Steering Hose Updated Repair Method

Topic number	LI46.00-N-069137
Version	3
Function group	46.00 General
Date	08-03-2020
Validity	906.xxx Sprinter all 907.xxx with code ZG3 (four wheel drive with selectable low range)
Reason for change	Validity extended
Reason for block	

Complaint:

When repairing power steering hose connection to power steering cooler the clamp may not be positioned correctly

Cause:

The clamp located on the steering gear return line may not be positioned correctly

Remedy:

Replace Spring Style Clamp with Screw Clamp (N000000 000665)

Attention: Please utilize the following pictures to assist in the replacement of the spring style clamp with worm style clamp.

- 1_Return Line Matra Clamp Arrangement.jpg
- 2_Connections and Line Arrangement Before Repair.jpg
- 3_Return Line Arrangement with Screw Clamp.jpg
- 4_Correct Position of Hose Clamp.jpg

1. See WIS instructions AR46.25-D-3020-01SE (Disconnect / connect hydraulic lines on power steering cooler).
2. Clamp return line to reservoir (1) with Matra clamp (2) to avoid oil leaking.
3. Open clamp (3) using hose clamp pliers (W454 589 00 37 00) and remove return line to oil cooler (4). Clamp (3) can then be discarded.

NOTE: Collect leaking power steering oil.

4. Spray cooling pipe (5) with brake cleaner and allow to dry.
5. Using a clean lint-free cloth, spray with brake cleaner and clean the hose inside the connection area.

NOTE: The mating surfaces on the cooler pipe and retrun line to oil cooler must be completely free of oil and dry before installation.

6. Install the screw clamp (7) on to the return line to the oil cooler (4).

XENTRY TIPS

7. Connect the return line to oil cooler (4) to the power steering cooler tube (5). To do this, push the return line (4) on to the cooling tube (5) as far as the stop (6).

8. Position the screw clamp as described in (4_Correct Position of Hose Clamp.jpg).

9. Tighten the screw clamp (7) to 5 Nm.

NOTE: Be sure to clean all power steering oil residue from frame rail.

10. Fill power steering reservoir and bleed system (Follow WIS document AR46.30-S-0010S)

Attachments	
File	Description
1_Return Line Matra Clamp Arrangement.jpg	Additional documentation to assist in Matra clamp placement
2_Connections and Line Arrangement.jpg	Additional documentation to assist in repair and line arrangement
3_Return Line Arrangement with Screw Clamp.jpg	Additional documentations to support line arrangement after installation of screw clamp
4_Correct Position of Hose Clamp.jpg	Additional documentation to assist in correct positioning of hose clamp

Symptoms
Chassis/suspension / Steering system / Leakage / Line connections leak
Chassis/suspension / Steering system / Leakage / Low pressure line leaks
Chassis/suspension / Steering system / Leakage / Oil cooler leaks
Chassis/suspension / Steering system / Leakage / Leaks

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
N00000000066 5			CLAMP	1	Worm Style Clamp	

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
46-5600	CHECK, CHECK REPLACE	0.4	46547 38	

Validity		
Vehicle	Engine	Transmission
Sprinter 907	*	*
Sprinter III	*	*

Attachments

XENTRY TIPS

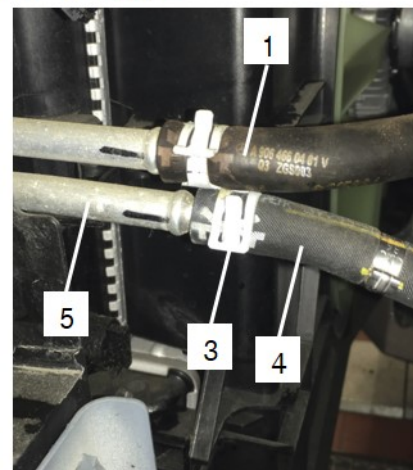
1_Return Line Matra
Clamp Arrangement.jpg:

- 1) Return line to reservoir
- 2) Matra - Clamp



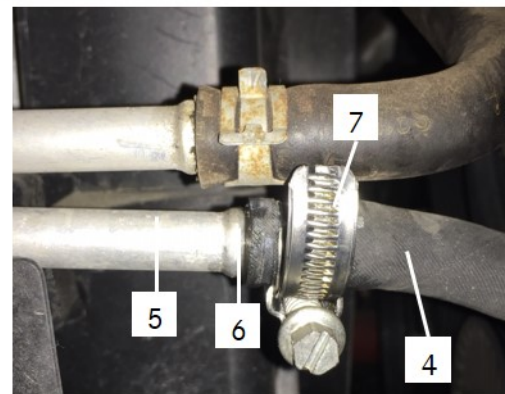
2_Connections and Line
Arrangement.jpg:

- 1) Return line to reservoir
- 3) Clamp
- 4) Return line to oil cooler
- 5) Cooling pipe



3_Return Line Arrange-
ment with Screw Clamp.
jpg:

- 4) Return line
- 5) Cooling pipe
- 6) stop
- 7) Screw clamp



XENTRY TIPS

4_Correct Position of Hose Clamp.jpg:

Note: The clamp on the return line must be replaced with the hose clamp N000000 000665

1. Place screw clamp in center of white mark.
2. If the white mark is no longer visible, measure the distance from the stop on the oil cooler pipe to the start of the screw clamp, distance must be 3 - 5mm.

