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Coding Information

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Title: Repair Information for Damaged Headlight Connector

Applies To: Certain DuraStar, CE / BE Bus, WorkStar, 1300, TranStar

Change Log

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

10/21/2016 - Added wire color orientation information and photo based on dealer feedback.
 02/22/2016 - Edited coding for models.
 02/19/2016 - Edited diagnostic and repair steps to include terminal damage.
 02/16/2016 - Article Created.

Description

The 9007 headlight connector inside the headlight assembly on certain DuraStar, CE / BE Bus, WorkStar, 1300 and TranStar models is part of the headlight assembly. This connector is an internal part of the headlight assembly and is not available through the Navistar parts system. Connector or terminal damage can be repaired using locally obtained parts instead of replacing the entire headlight assembly.

Symptom(s)

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

DTC/Light	Description
SPN 2653 FMI 5	Left Low Beam Under Current
SPN 2655 FMI 5	Right Low Beam Open Circuit
SPN 4011 FMI 5	Open in Left High Beam Circuit
SPN 4012 FMI 5	Open in Right High Beam Circuit

Customer Observations or Concerns:

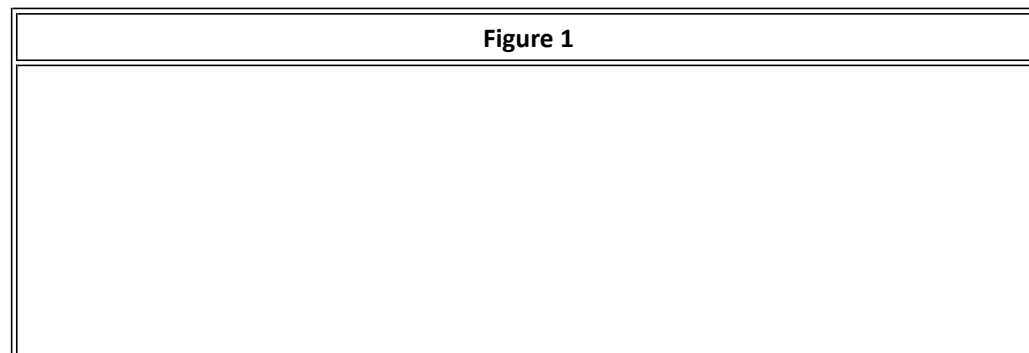
- Headlight is not working.

Special Tool(s) / Software

Tool Description	Tool Number	Comments	Instructions
Indenter or Confined Crimp Tool for Closed Barrel Terminals		*Obtain Locally	
Wire Stripper		*Obtain Locally	

Service Parts Information

Kit Description	Part Number	Quantity Required	Notes
Dorman Light Bulb Socket 84791	84791	1-2	Must be "High Temp" *Obtain Locally (Figure 1 below)
Closed Barrel Butt Connector		3-6	*Obtain Locally
Lead Free Rosin Core Solder			*Obtain Locally
Heat Shrink Tubing			*Obtain Locally

Figure 1

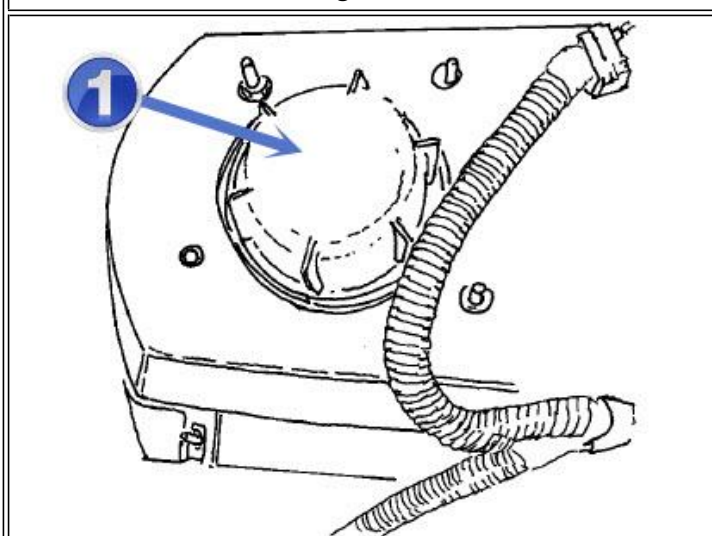


Diagnostic Steps

The 9007 connector that is part of the headlight assembly may have terminal or connector damage resulting in an inoperative headlight. The connector should be inspected as part of normal circuit diagnostics.

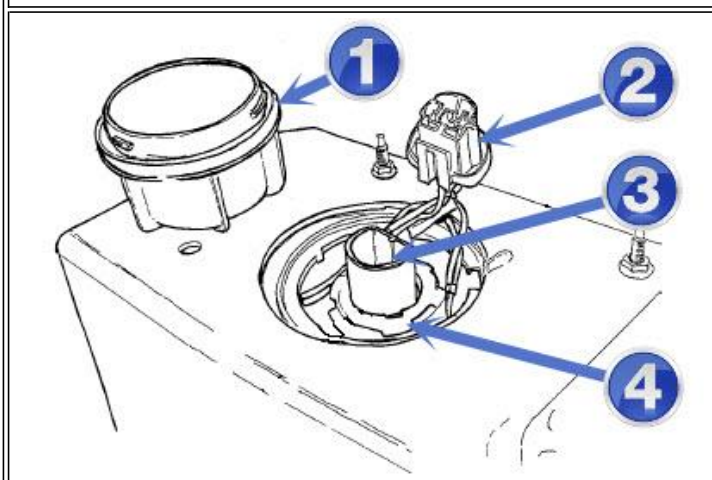
REMOVAL PROCEDURE:

1. To inspect the headlight connector, unlatch hood on both sides and tilt hood forward.
2. Locate the rear side of the headlight housing.
3. Turn the socket cover and remove. See Figure 3 below.

Figure 3

1. Headlight Socket Cover

4. Remove light socket pigtail plug. See Figure 4 Item 2 below.

Figure 4

1. Headlight Socket Cover
 2. Headlight Socket Pigtail Plug
 3. Headlight
 4. Headlight Retaining Bezel

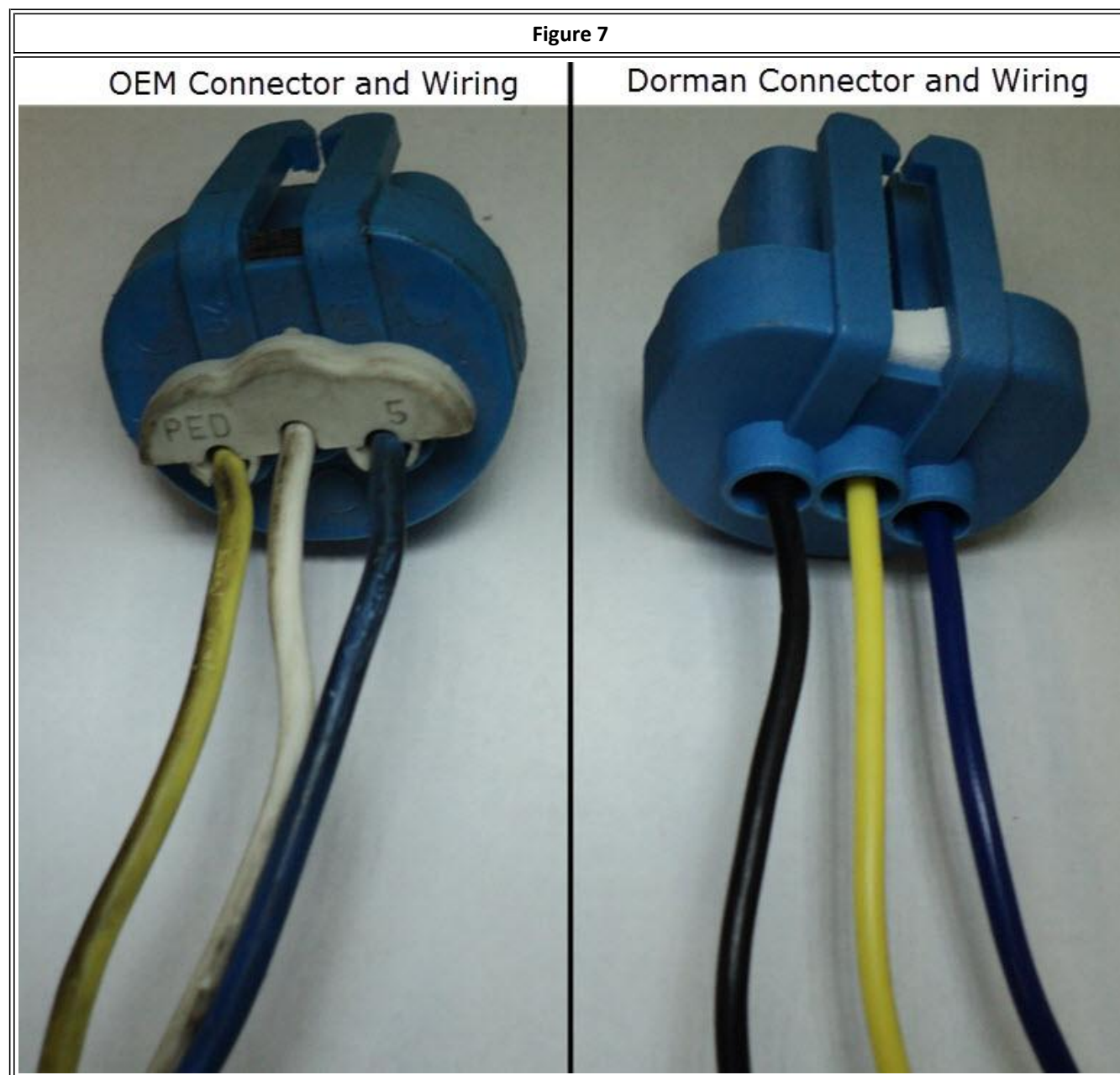
5. If the headlight connector, headlight body or terminals are damaged continue to Repair Steps.

Repair Steps

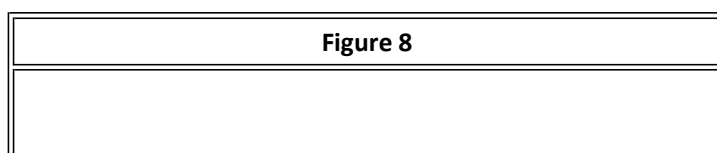
Replace the damaged connector with the Dorman 84791 High Temperature Socket Pigtail. Replace the headlight bulb if damage is present. It is recommended to replace the headlight bulb in pairs.

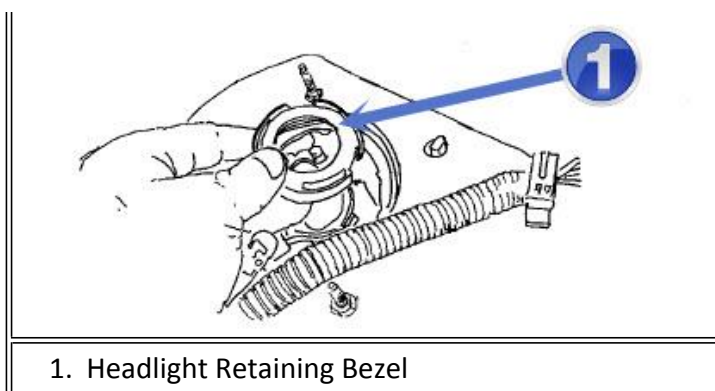
NOTE:

The wire color orientation is not the same between the OEM connector and the Dorman connector with pigtail. To maintain the proper wire color orientation, you can de-pin and swap the locations of the yellow and black wires on the replacement Dorman connector. See Figure 7 below.

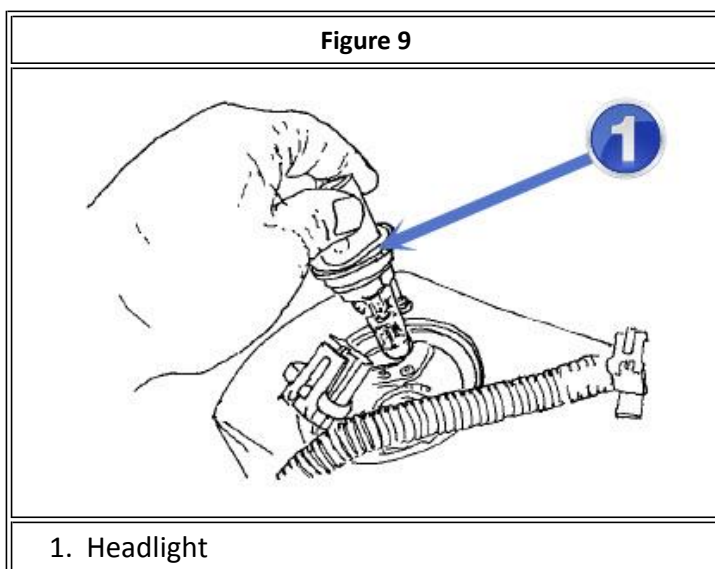


1. Replace the socket pigtail plug, with the high temperature pigtail.
 - Use the closed barrel butt connectors to crimp and solder the wiring.
 - Follow proper wire repair procedures as outlined in [IK0800269 - Proper Wire Repair](#).
2. To replace the headlight, if required, remove the headlight retaining bezel. See Figure 8 below.





3. Remove the headlight.



INSTALLATION PROCEDURE:

- The installation is performed in opposite order of the removal procedure.

Warranty Information

Warranty Claim Coding:

Group:	08810 - Headlights
Noun:	388 - Lamp Assembly

Standard Repair Time(s):

Description	SRT Procedure	Model	Engine	SRT Hours
Headlight Bulb, Replace	GY08-5360A KL08-5360A	CE / BE Bus DuraStar	All Engines	Click Here
Wiring Repairs, Perform		All Models	All Engines	Click Here

	A08-2001A (Up to 12 Minutes)			
	A08-2002A (13-24 Minutes)			
	A08-2003A (25-36 Minutes)			

Other Resources

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