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Countries:

Document ID: IK0800522

Availability: ISIS, Bus ISIS, FleetISIS, NotSIR

Revision: 7

Major System: ELECTRICAL SYSTEM

Created: 2/15/2016

Current Language: English

Last Modified: 7/19/2017

Other Languages: NONE

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Viewed: 1524

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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:

07/19/2017 - Updated parts information. Dealer feedback revealed the parts list was incomplete and incorrect. Added part number for connector gasket. Updated part numbers for connector lock and connector seal.

03/14/2017 - Updated parts information. Repair can be completed with parts available in the PDC.

10/21/2016 - Added wire color orientation information and photo based on dealer feedback.

Description

The 3 pin 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 on some models. Connector or terminal damage can be repaired parts available in the PDC 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

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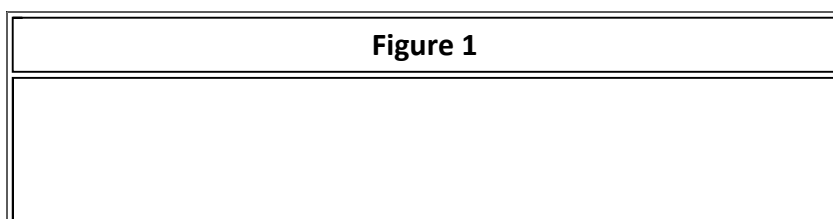
Kit Description	Part Number	Quantity Required	Notes
Socket Lamp*Lamp	3561125C1	1-2	Sales Set Qty: 1
Lock, Connector Body*Secondary	3561139C1	1-2	Sales Set Qty: 25
Terminal Cable (For 14GA Only)	2033816C1	3-6	Sales Set Qty: 10
Gasket Headlight Mtg*Headlight	3561925C1	1-2	Sales Set Qty: 1
Plug Sealing (Plug End Seal)	1671603C1	3-6	Sales Set Qty: 42
Terminal Butt Splc 16-14AWG 	3517502C1	3-6	Sales Set Qty: 7
Lead Free Rosin Core Solder			*Obtain Locally
Heat Shrink Tubing			*Obtain Locally
Wire 14AWG, 6", Yellow		1	*Obtain Locally
Wire 14AWG, 6", Dark Blue		1	*Obtain Locally
Wire 14AWG, 6", White		1	*Obtain Locally

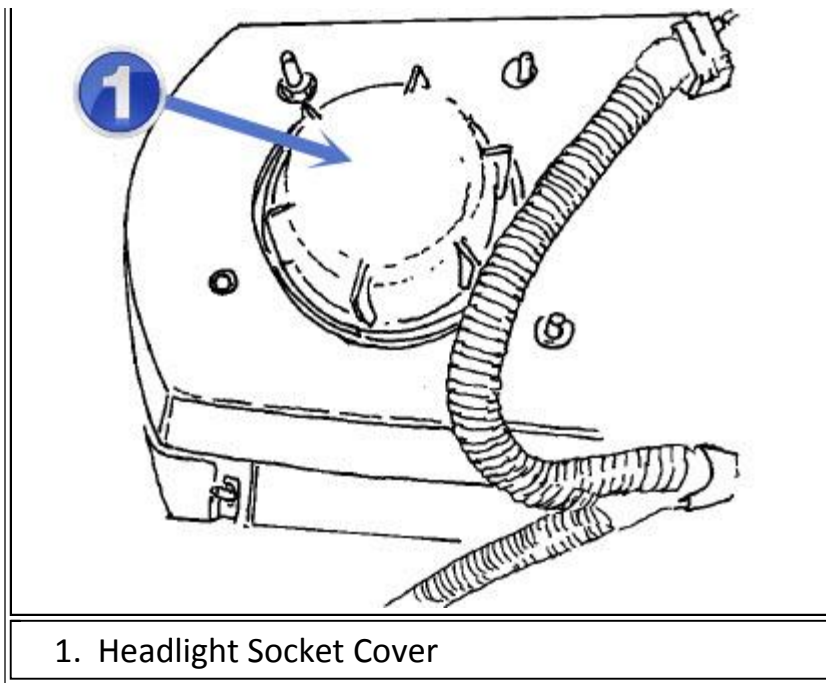
Diagnostic Steps

The 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.

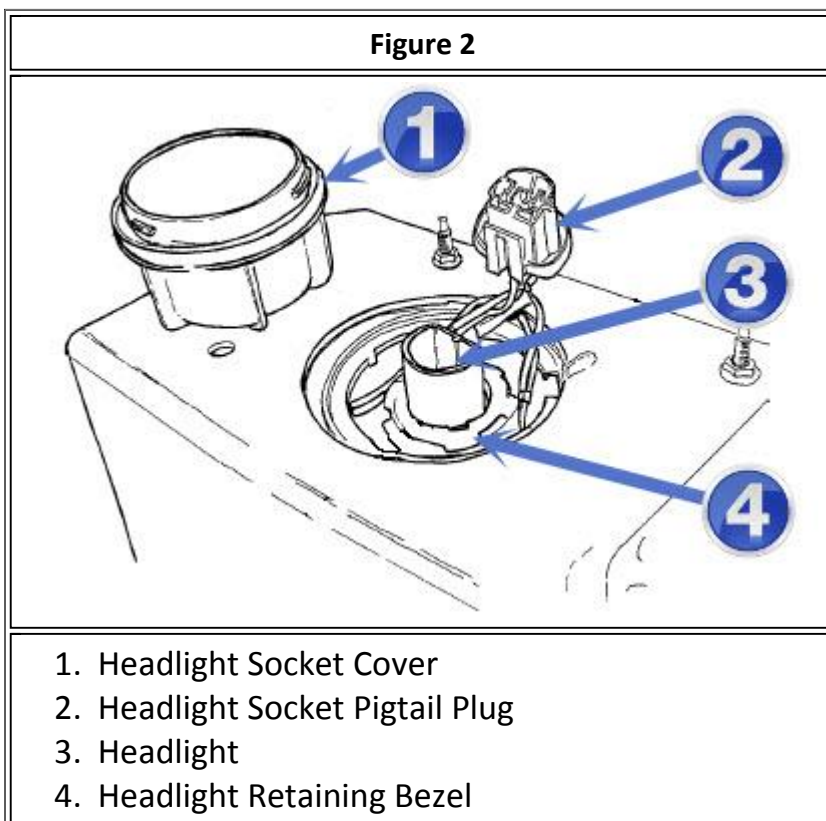
REMOVAL PROCEDURE:

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 1 below.





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



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

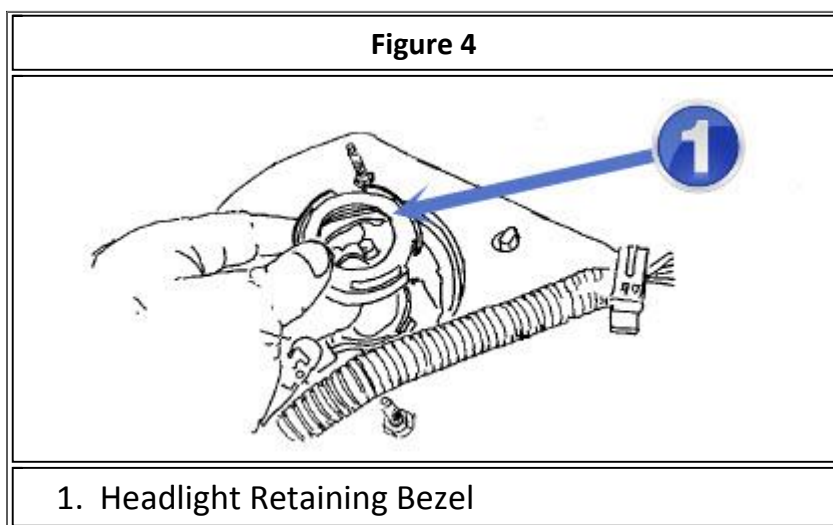
Repair Steps

Replace the damaged 3 pin connector with connector 3561125C1. Replace the headlight bulb if damage is present. It is recommended to replace the headlight bulb in pairs.

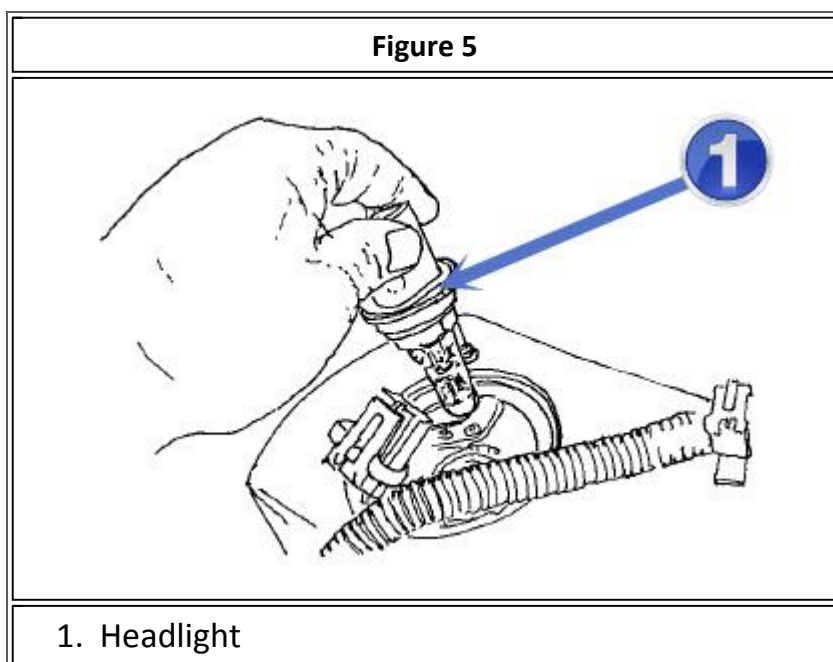
1. Use the component parts for the connector, terminals, seals and wires to pre-assemble a pigtail harness.
 - Crimp the terminal and seal to each of your 6" pieces of wire.
 - Insert the Yellow wire into cavity A of connector 3561125C1.
 - Insert the White wire into cavity B of connector 3561125C1.
 - Insert the Dark Blue wire into cavity C of connector 3561125C1.
 - Insert the Lock 3561139C1 onto the back of the connector body.
 - Install the gasket 3561925C1 onto the front of the connector body.
 - Your completed pigtail should match the OEM wiring as shown in Figure 3 below.



2. Replace the socket pigtail plug, with the pigtail harness you have pre-assembled.
 - Cut the 3 wires to remove the old connector.
 - Use the 3 closed barrel butt connectors 3517502C1 to crimp and solder the existing wiring to the new pigtail.
 - Follow proper wire repair procedures as outlined in [IK0800269 - Proper Wire Repair](#).
3. To replace the headlight, if required, remove the headlight retaining bezel. See Figure 4 below.



4. 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	A08-2001A (Up to 12 Minutes) A08-2002A (13-24 Minutes) A08-2003A (25-36 Minutes)	All Models	All Engines	Click Here

Other Resources

[Master Service Information Site](#)

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