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Coding Information

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Title: TerraStar Headlamp Wiring Harness Rerouting

Applies To: All TerraStar variants

DESCRIPTION

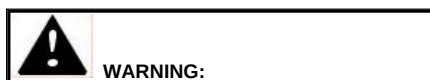
TerraStar chassis-to-hood wiring harnesses for both the right and left side headlamps can exhibit two concerns which should be corrected in the field. The first concern involves the routing of the harness through the hood counterbalance torsion rods, which causes pinching of the harness when the hood is closed. The second concern is a lack of attachment of the harness, from the chassis to the hood.

SYMPTOMS

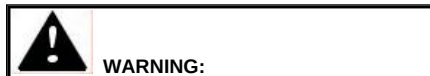
The harness will appear as in Figure 1, below. The harness will extend from the chassis to a flat connector and from the connector, to the lamp cavities in the hood. Note that in some instances, the flat connector itself will not be secured to the hood, as it is in Figure 1, during assembly.

PARTS INFORMATION

Part #	Description	Qty.
291207C1	Wire Tie, Black	2
289862C1	Wire Tie, Black	2
3613346C91	Retainer w/integral wire tie, black	2

**WARNING:**

To prevent unexpected movement of the vehicle and possible serious personal injury or death, park the vehicle on a flat, level surface, set the parking brake, turn the engine off and chock the wheels to prevent vehicle from moving in both directions.

**WARNING:**

To prevent serious eye injury , always wear safe eye protection when you perform vehicle maintenance or service.

RESOLUTION

Correction is a three-step process, detailed below:

1) As mentioned above, it is possible that the harness flat connector may not be secured in any way. If this condition is observed, using one (1) Navistar P/N 291207C1 wire tie, secure the connector to the slot along the bottom edge of the hood, which will be immediately adjacent to the connector. Cut off and dispose of excess wire tie material. Study Figures 1 and 2 to determine how a properly secured connector should appear.

2) The harness on the chassis side of the connector must be rerouted. Study Figure 2 to determine how the harness will have been positioned in production. In this Figure, note the pinched area on the harness convolute tubing, where the harness has been

trapped between the bottom edge of the hood and the hood counterbalance torsion rods.

Reroute the chassis side harness to the opposite side of the vertical plate which anchors the counterbalance torsion rod. Study Figure 3 (and compare to Figure 2) to determine how the rerouted harness should appear. Secure the rerouted harness to the existing hole at the bottom of the bumper bracket, using one (1) Navistar P/N 289862C1 wire tie. Cut off and dispose of excess wire tie material. In Figure 3, a wire tie has been positioned in the hole, for illustration purposes.

3) The harness on the hood side of the connector must be secured. Study Figure 3 (and compare to Figure 1) to determine how the harness should be positioned when properly secured. In the approximate position shown in Figure 3, on each side of the hood assembly, carefully drill a .125 inch diameter hole. To ensure a professional-quality repair, take care to measure the location of the first hole and position the second hole in exactly the same location, on the opposite side of the hood. Press the push-pin side of one (1) Navistar P/N 3613346C91 retainer (w/wire integral tie) into the drilled hole. When the push-pin side of the retainer is fully inserted into the hole, secure the harness to the wire tie side of the retainer and cut off and dispose of the excess wire tie material.

OTHER RESOURCES

TerraStar Service Manual



Figure 1 - Headlamp Harness in As-Built Configuration (note that connector may not be secured during assembly)



Figure 2 - Headlamp wiring harness (chassis side) in "as-built" location - note pinch point on harness

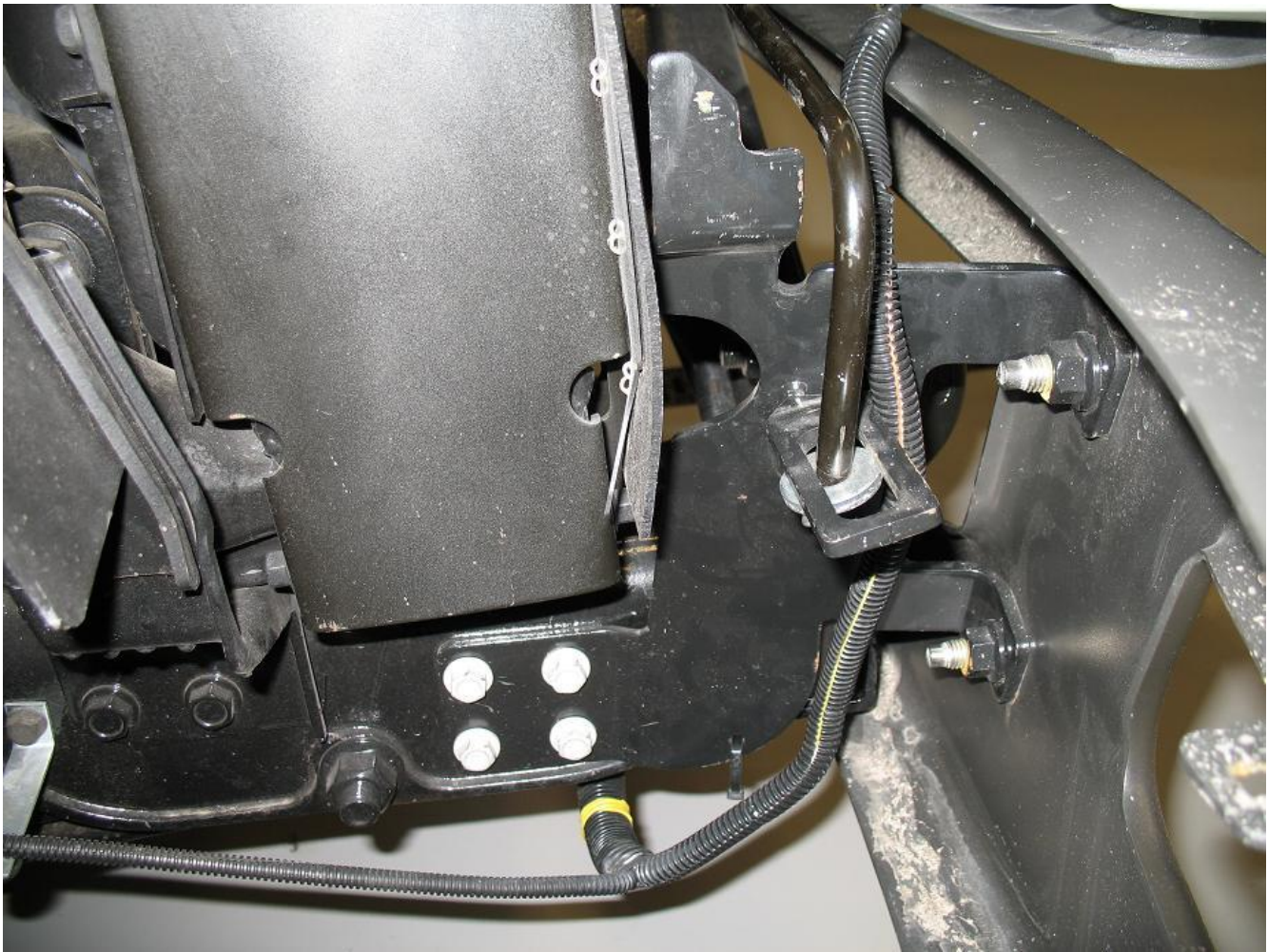


Figure 3 - Headlamp wiring harness (chassis side) in "after relocation" position - note hole/wire tie for securing



Figure 4 - Headlamp wiring harness (hood side) secured with P/N 3613346C91, combination retainer and wire tie

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