

SERVICE PROCEDURE

13505
SEPTEMBER 2013

SUBJECT: SAFTEY RECALL
Sunshade mounts on certain DuraStar[®], LoneStar[®], ProStar[®], TerraStar[®], TranStar[®], and WorkStar[®] day cab models built 01 June 2010 to 07 March 2012 with day cab feature codes 16CAB, 16030, or 16196 and sunshade feature codes 16WCE, 16WCR, 16XWD, 16XWE, 16XWV, 16XXB, 16XXD, 16XXE, 16XXG, or 16XYN.

DEFECT DESCRIPTION

The adhesive material used to bond the sunshade mount to the cab roof panel may not sufficiently bond the mount to the cab, which may result in partial or full separation of the sunshade from the roof panel.

If the sunshade separates from the cab roof during vehicle operation, it could hit another vehicle on the roadway or cause other vehicles to make evasive maneuvers which could result in a motor vehicle accident or personal injury.

MODELS INVOLVED

This Safety Recall involves certain DuraStar[®], LoneStar[®], ProStar[®], TerraStar[®], TranStar[®], and WorkStar[®] models built 01 June 2010 to 07 March 2012 with day cab feature codes 16CAB, 16030 or 16196 and sunshade feature codes 16WCE, 16WCR, 16XWD, 16XWE, 16XWV, 16XXB, 16XXD, 16XXE, 16XXG, or 16XYN.

TOOLS REQUIRED

Description	Tool Number / Type
Hand Tools	Obtain Locally
Ladder	Obtain Locally
Drill Motor	Obtain Locally
Twist Drill 17/64 in. (6.7 mm)	Obtain Locally
Drill Bit Stop	Obtain Locally
Rivet Gun	Obtain Locally
Caulk Gun	Obtain Locally
Drilling Templates	Located at End of This Letter

PARTS INFORMATION

Part Number	Part Description	Quantity
8900237R91	Sunshade Mounting Kit	1
2512126C91	Sealant, White 3M (White Trucks Only)	1
2611726C1	SuperTrans [®] Sealant - Clear (All Trucks Except White)	1
Obtain Locally	Isopropyl Alcohol	1
Obtain Locally	Masking Tape	1

8900237R91 contains the following parts:

1682702C1	Rivet, Huckbolt Magnabulb ¼ Dia.X .189-.268	8
3523427C2	Gasket	3
LOC37418	Loctite [®] Sealant, Threadlocker 242 (6 ml)	1

SERVICE PROCEDURE

WARNING! PARK VEHICLE ON HARD FLAT SURFACE, TURN THE ENGINE OFF, SET THE PARKING BRAKE AND BLOCK THE WHEELS TO PREVENT THE VEHICLE FROM MOVING IN BOTH DIRECTIONS. FAILURE TO DO SO MAY RESULT IN PROPERTY DAMAGE, PERSONAL INJURY AND / OR DEATH.

WARNING! ALWAYS WEAR SAFE EYE PROTECTION WHEN PERFORMING VEHICLE MAINTENANCE. FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY AND / OR DEATH.

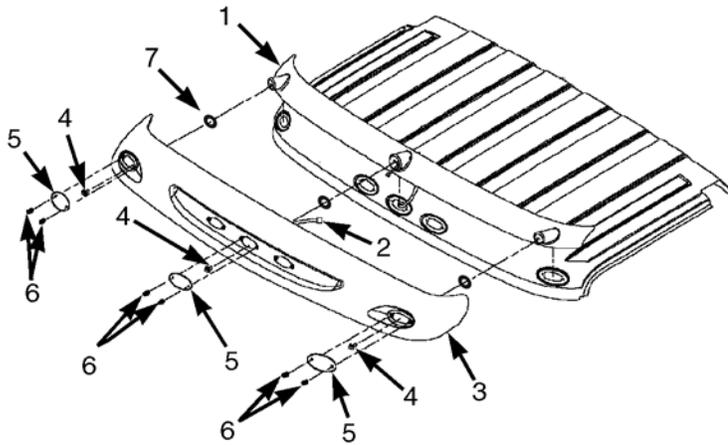
WARNING! ALLOW COMPONENTS IN ENGINE COMPARTMENT TO COOL BEFORE SERVICING ENGINE OR VEHICLE. FAILURE TO DO SO MAY RESULT IN PROPERTY DAMAGE, PERSONAL INJURY AND / OR DEATH.

NOTE: After completing this procedure, allow vehicle to sit indoors for 1 hour to allow sealant to skin over. Do not power wash or clean vehicle for 24 hours.

NOTE: Vehicle surface needs to be at least 65°F (18°C) prior to sealant application.

NOTE: If the unit you are working on has experienced total separation of the sun shade mount from the cab roof, refer to iKNow article [IK1600149](#).

1. Bring truck into shop and park on flat surface.
2. Shift transmission to park or neutral, set parking brakes, and install wheel chocks.
3. Unlatch and open hood.



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Figure 1. Sunshade.

1. Mounting bracket
2. Electrical connector
3. Sunshade
4. Mounting bolt (3)
5. Clearance lamp assembly (3)
6. Clearance lamp screw (6)
7. Gasket (3)

4. Check vehicle build date.
 - A. For units built in June 2010, inspect the entire periphery of the sunshade mount for signs of adhesive.
 1. If adhesive is present along the entire periphery, no further action is necessary. Proceed to Step 31.
 2. If adhesive is not present along the entire periphery, proceed to Step 5.
 - B. For units built July 2010 and later, proceed to Step 5.
5. Place cardboard on windshield to protect windshield from tools or hardware.
6. Remove six screws (Figure 1, Item 6) from center clearance lamp assembly and both outer clearance lamp assemblies (Figure 1, Item 5).
7. Pull clearance lamp assemblies (Figure 1, Item 5) partially out of sunshade (Figure 1, Item 3) to expose mounting bolts (Figure 1, Item 4).
8. With assistance, remove three mounting bolts (Figure 1, Item 4) from mounting bracket (Figure 1, Item 1).

9. With assistance, disconnect electrical connector (Figure 1, Item 2) and remove sunshade (Figure 1, Item 3) and three gaskets (Figure 1, Item 7) from mounting bracket (Figure 1, Item 1). Discard gaskets.

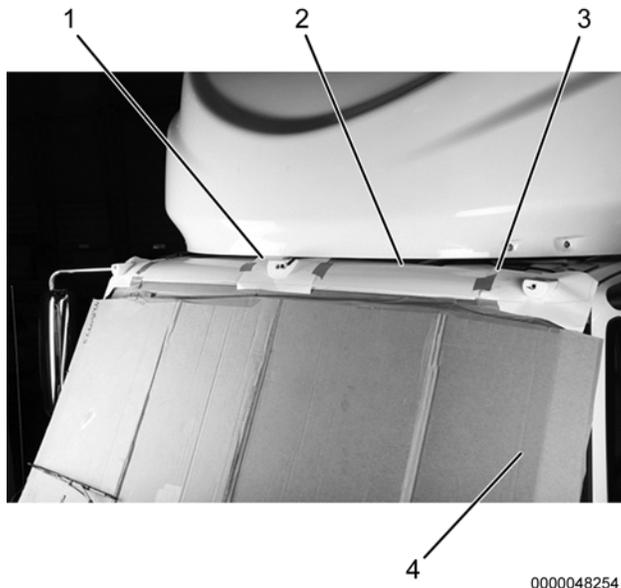


Figure 2. Drilling Locations.

1. Drilling template (3)
2. Mounting bracket
3. Drill hole location (8)
4. Windshield

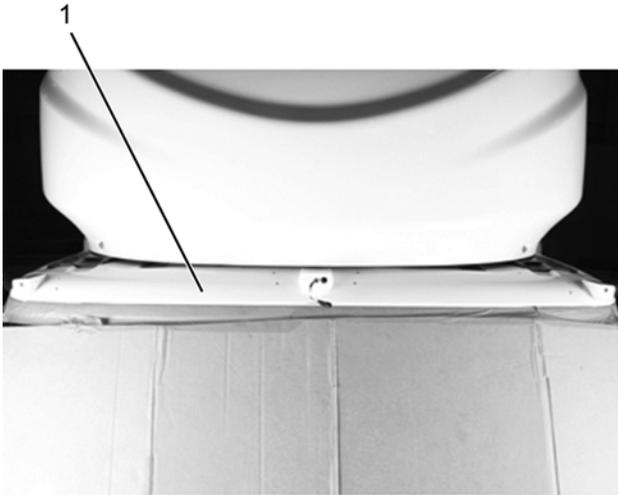
10. Mask off windshield (Figure 2, Item 4) with cardboard.

NOTE: The drilling templates needed to complete Steps 11 – 13 are attached at the end of this document, Pages 13 -15. Print the templates on 8.5 in X 11 in (216 mm X 279 mm) paper.

11. Install three drilling templates (Figure 2, Item 1) on mounting bracket (Figure 2, Item 2).
12. Using drilling templates (Figure 2, Item 1), mark mounting bracket (Figure 2, Item 2) to define eight drill hole locations (Figure 2, Item 3).
13. Remove drilling templates (Figure 2, Item 1) from mounting bracket (Figure 2, Item 2).

CAUTION: Failure to use a stop bit feature for drilling holes may result in damage to the headliner.

14. Using 17/64 in (6.7 mm) bit that has stop bit feature of 1 in (25 mm) from end of bit, drill eight holes (Figure 2, Item 3) in mounting bracket (Figure 2, Item 2).



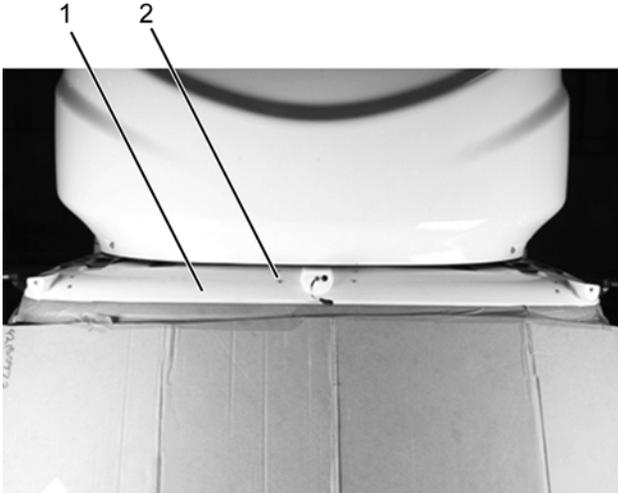
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Figure 3. Cleaning Mounting Bracket.

1. Mounting bracket

NOTE: The holes must be dry before installation of rivets. Any alcohol left over may negatively affect sealant bond.

15. Using isopropyl alcohol, clean around drilled holes in mounting bracket (Figure 3, Item 1).
16. Using isopropyl alcohol, wash entire perimeter joint of mounting bracket (Figure 3, Item 1) and roof, forcing solvent underneath mounting bracket, and wipe using lint-free cloth. Allow to dry before applying sealant.
17. Using isopropyl alcohol, clean rivets and allow to dry before applying sealant.
18. Using isopropyl alcohol, clean any residual gasket or glue from gasket mating surfaces of sunshade and mounting bracket (Figure 3, Item 1). Allow to dry before installing gaskets.



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Figure 4. Rivets Installed.

1. Mounting bracket
2. Rivet (8)

19. Add 0.04 to 0.06 in (1-1.5 mm) bead of sealant under head of each rivet (Figure 4, Item 2).

20. Using rivet gun, install eight rivets (Figure 4, Item 2) in mounting bracket (Figure 4, Item 1).

21. Smooth sealant around each rivet head (Figure 4, Item 2), making sure sealant is uniformly smooth and gap is filled between mounting bracket (Figure 4, Item 1) and each rivet.

22. Apply sealant to head and entire perimeter of eight rivets (Figure 4, Item 2) and mounting bracket (Figure 4, Item 1).

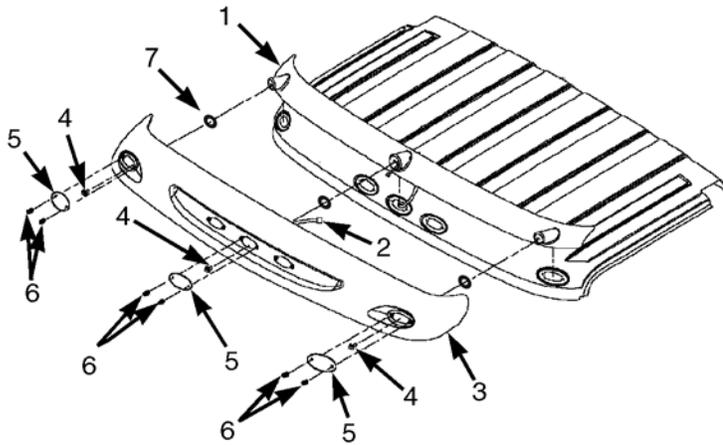


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Figure 5. Sealant.

1. Mounting bracket
2. Roof panel

23. Apply sufficient bead of sealant around mating surfaces of mounting bracket (Figure 5, Item 1) and roof panel (Figure 5, Item 2).
24. Using rag, smooth sealant to form complete, uniform fill around mounting bracket (Figure 5, Item 1).
25. Using isopropyl alcohol, clean excess sealant from mounting bracket (Figure 5, Item 1).



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Figure 6. Sunshade.

1. Mounting bracket
2. Electrical connector
3. Sunshade
4. Mounting bolt (3)
5. Clearance lamp assembly (3)
6. Clearance lamp screw (6)
7. Gasket (3)

26. Apply Loctite[®] to mounting bolts (Figure 6, Item 4).
27. With assistance, connect electrical connector (Figure 6, Item 2) at center clearance lamp (Figure 6, Item 5).
28. With assistance, install sunshade (Figure 6, Item 3) and three new gaskets (Figure 6, Item 7) on mounting bracket (Figure 6, Item 1) with three mounting bolts (Figure 6, Item 4). Tighten mounting bolts to 15 lb-ft (20 N·m).
29. Install center clearance lamp assembly and both outer clearance lamp assemblies (Figure 6, Item 5) on sunshade (Figure 6, Item 3) with six clearance lamp screws (Figure 6, Item 6). Tighten clearance lamp screws to 22 lb-in (2.5 N·m).
30. Remove masking tape and cardboard from windshield.
31. Close and secure hood.
32. Remove wheel chocks.

END OF SERVICE PROCEDURE

LABOR INFORMATION

NOTE: Submit for one operation only.

Operation Number	Description	Time
A40-13505-1	Inspect Sunshade Mount	0.3 hr
A40-13505-2	Install Rivets and Reseal Sunshade Mount	2.1 hrs

CAMPAIGN IDENTIFICATION LABEL

Each vehicle corrected in accordance with this campaign must be marked with a CTS-1075 Campaign Identification Label.

Complete the label and attach on a clean surface next to the vehicle identification number (VIN) plate.

DO NOT REMOVE

INTERNATIONAL

Campaign No. _____

VIN
Eng.# _____

COMPLETED

Service Location Code # _____

DO NOT REMOVE

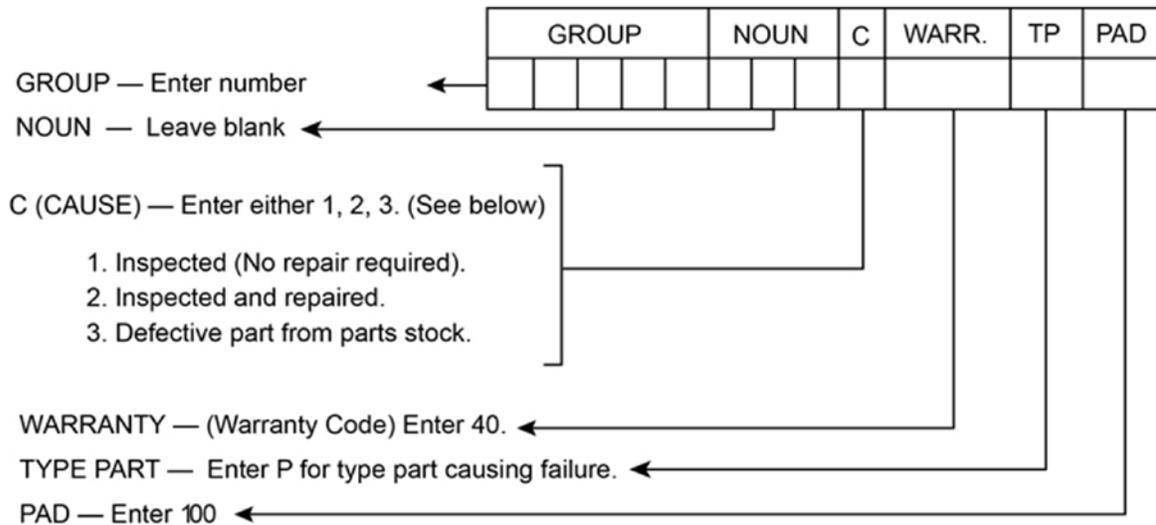
ADMINISTRATIVE / DEALER RESPONSIBILITIES

WARRANTY CLAIMS

Warranty claim expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Safety Recall 13505.

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Policy Manual, Section 7.1.8.

As with all claim submissions, items acquired locally must be submitted in the "Other Charges" tab. The cost of any bulk items (such as a bag of cable tie straps, roll of wire, a barrel of oil, or a tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.



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UNITED STATES AND POSSESSIONS

The National Traffic and Motor Vehicle Safety Act, as amended, provides that each vehicle that is subject to a vehicle recall campaign must be adequately repaired within a reasonable time after the owner has tendered it for repair. A failure to adequately repair within 60 days after a tender of a vehicle is prima facie evidence of failure to repair within a reasonable time. If the condition is not adequately repaired within 60 days, the owner may be entitled to replacement with an identical or reasonable equivalent vehicle at no charge, or to a refund of the purchase price less a reasonable allowance for depreciation.

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward.

Dealers should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your dealer location.

Dealers must make every effort to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible. However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

Dealers involved in the recall process will be furnished a listing of owner names and addresses to enable them to follow up with owners and have the vehicles corrected. Use of this listing must be limited to this campaign because the list may contain information obtained from state motor vehicle registration records,

and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

CANADA

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward.

Dealers should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your dealer location.

Dealers must make every effort to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible. However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

Dealers involved in the recall process will be furnished a listing of owner names and addresses to enable them to follow up with owners and have the vehicles corrected. Use of this listing must be limited to this campaign because the list may contain information obtained from state motor vehicle registration records, and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

EXPORT

Export Distributors should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your distributor location.

Export Distributors are to submit warranty claims in the usual manner making reference to this recall number.

Export Distributors are expected to provide full cooperation and follow-up with respect to this important subject matter. If you have any questions or need further assistance, please contact the Regional Service Manager at your regional office.

NAVISTAR, INC.

