

**** SOLUTION ****

Title [Volvo Chassis](#) - Rain Sensor Bracket Removal And Installation Procedure when Using An Aftermarket Windshield

Volvo Models

Volvo Model VN , VNL , VNR , VNX , VAH , VHD

**** SOLUTION ****

Cause An aftermarket recommendation is needed for replacing the windshield without the factory black "Frit" around the Rain Sensor for the North American Market.

Solution

Note: As an OEM we recommend utilizing genuine approved parts for replacement. This procedure is an aftermarket recommendation for replacing the windshield without the factory black "Frit" around the Rain Sensor for the North American Market.

Tools and equipment needed for reinstall or bracket transfer:

Glass Cleaner
Adhesive Removal
Adhesive
Heat Gun
Sensor Mounting Bracket (P/N 21351909)
Dry Erase Marker
Measuring Tape
Utility Knife & Blades
Painters Tape
Caulk Gun
Sensor Gasket (P/N 21836770)

Reinstallation Procedure

1. Disconnect the rain sensor from the damaged windshield. Windshield will need to be removed to remove the rain sensor bracket.



2. Press on the metal hold down clip and use a flat blade screwdriver and pry outward on the sides holding the sensor to the bracket.





2a. Removed sensor, position sensor and wire out of the way for damaged windshield removal



3. Begin by using the heatgun to heat the adhesive on the current bracket.



4. As the adhesive is heating up, use a razor knife/blade to gently slice at the adhesive until it begins to free up. ***DO NOT PRY UP THE BRACKET***

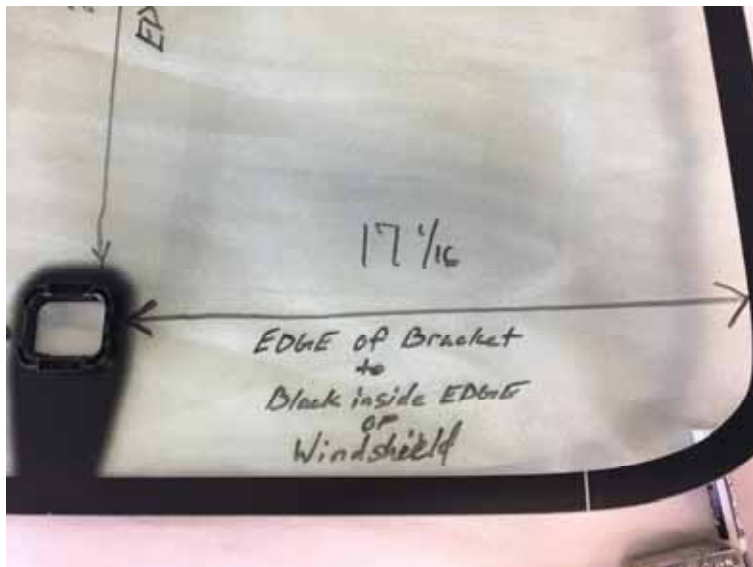


5. Using a razor blade or knife carefully scrape the excess leftover adhesive. Underside needs to be as clean as possible for reapplication.

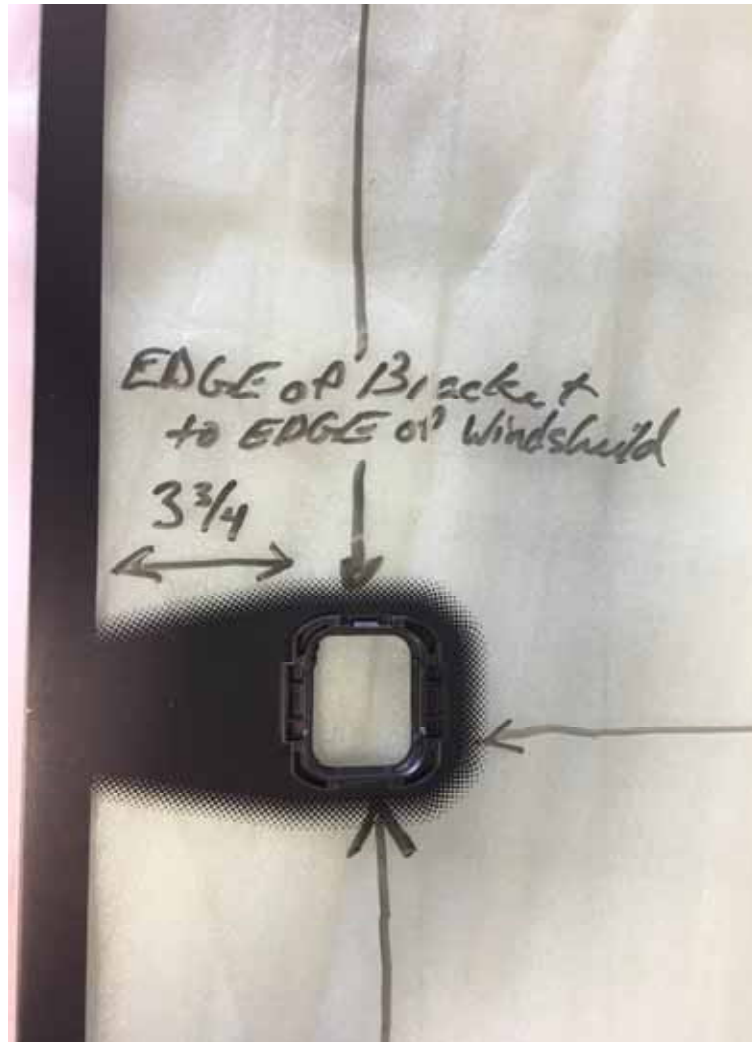
Bracket Removed



6. With the new windshield face down measure out 17 and 1/16th of inch from the right inside black edge of the windshield

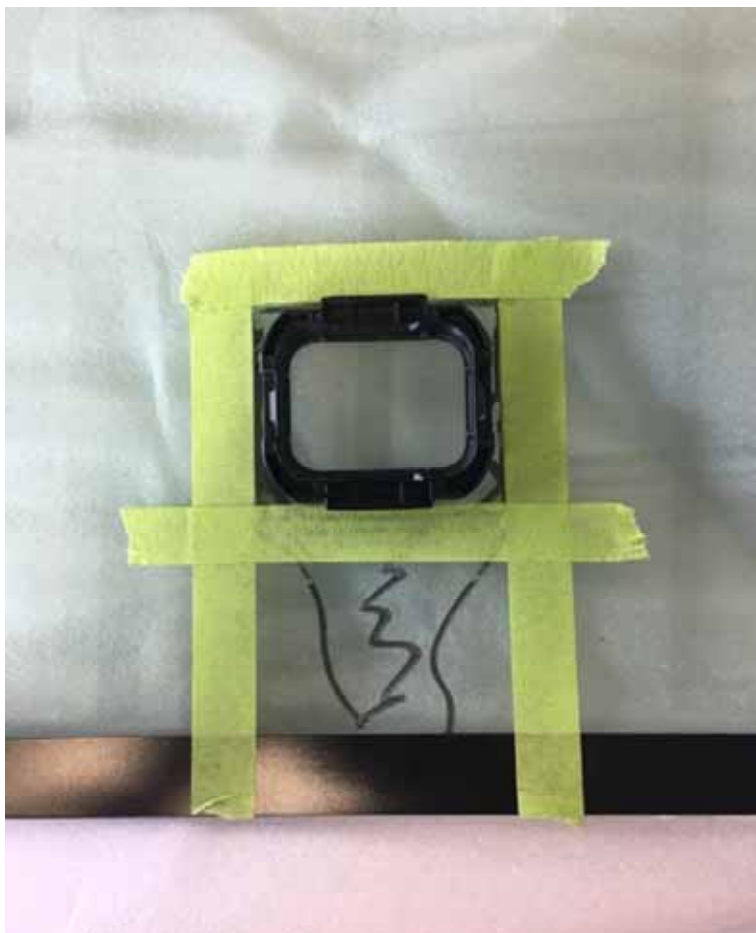


7. With the new windshield face down measure out 3 and 3/4th of inch from the very bottom edge of the windshield



Utilize the dry erase marker and painters tape to mark off where the bracket will go

8. With the area measured off use the painters tape to mark off the area where the bracket will go. Re-measure- *placement needs to be approximate not exact*



9. Clean the surface of the windshield using GC-800 Glass cleaner

10. Using U-418 (adhesive and caulk gun) apply the adhesive to the back side of the bracket and press down to the glass within the taped off area. *Ensure that adhesive does not bleed into the center area, as that will interfere with clear sensor gasket application.*



Note the 4 raised points on the backside of the bracket. Adhesive application needs to be liberal enough to ensure a proper contact patch to the windshield, as these 4 raise points will contact the glass first



Recommended curing time for adhesive:

15-30 mins-workable

24 hours fully cured

time may vary depending on temp and humidity

11. Once the bracket has settled within the tack free/working time frame, installation of the new windshield can be performed, however it is recommended to wait the full 24 hours for full cure.



12. Install Sensor Gasket Part# 21836770, by removing protective film from back side, install in direct center point of bracket, remember to remove the remaining plastic protective film and try to minimize the amount of air bubble between glass and gasket.



Recommended curing time for adhesive:

15-30 mins-workable

24 hours fully cured

time may vary depending on temp and humidity

13. With the gasket installed, reverse steps 1 and 2 for reconnecting the Rain Sensor.

Tools and equipment needed for fresh installation:

Glass Cleaner

Adhesive

Sensor Mounting Bracket (P/N 21351909)

Dry Erase Marker

Painters Tape

Caulk Gun

Sensor Gasket (P/N 21836770)

1. Disconnect the rain sensor from the damaged windshield. Windshield will need to be removed to remove the rain sensor bracket.



2. Press on the metal hold down clip and use a flat blade screwdriver and pry outward on the sides holding the sensor to the bracket.

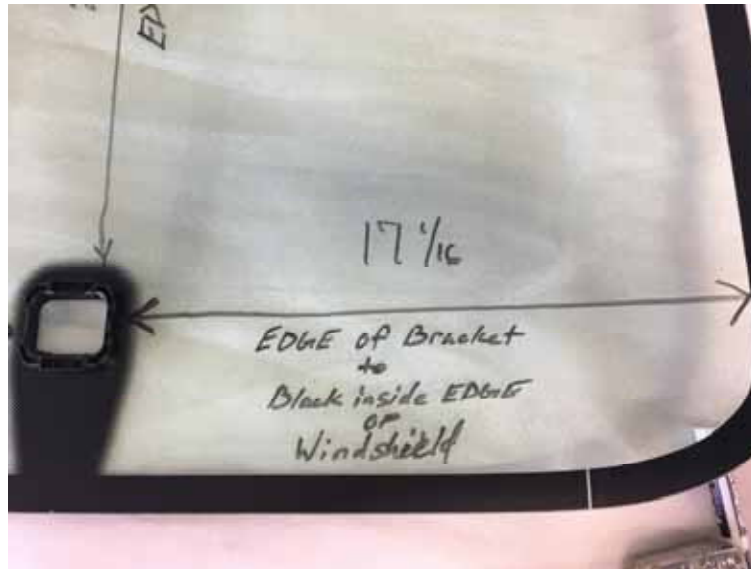




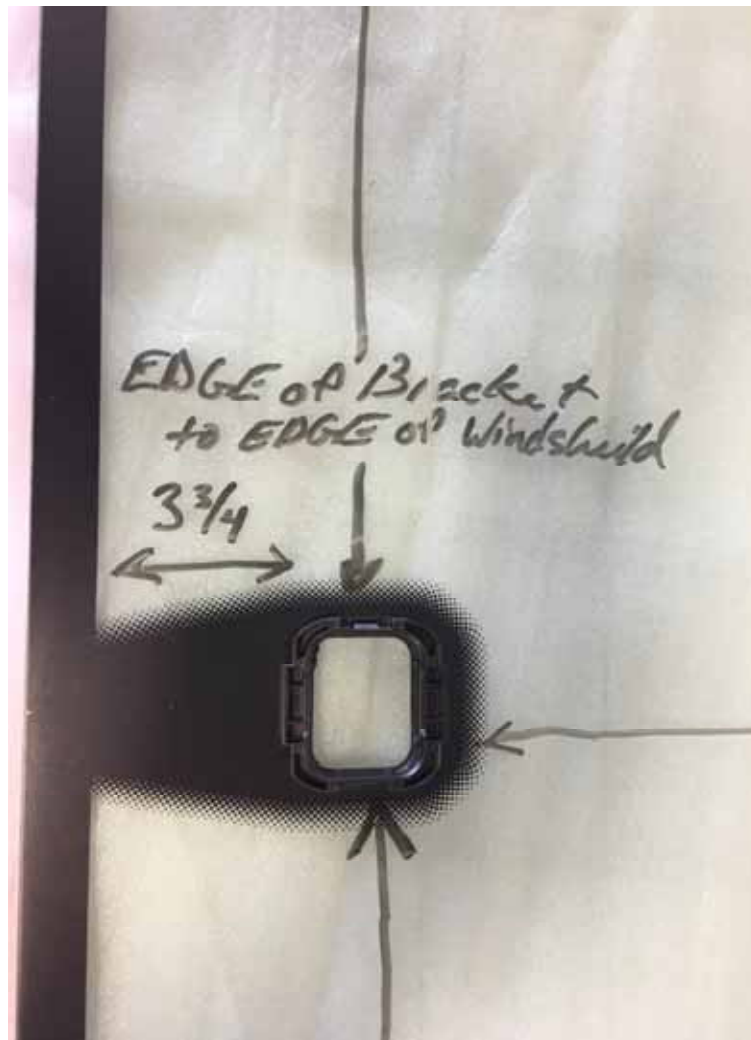
2a. Removed sensor, position sensor and wire out of the way for damaged windshield removal



3. With the new windshield face down measure out 17 and 1/16th of inch from the right inside black edge of the windshield



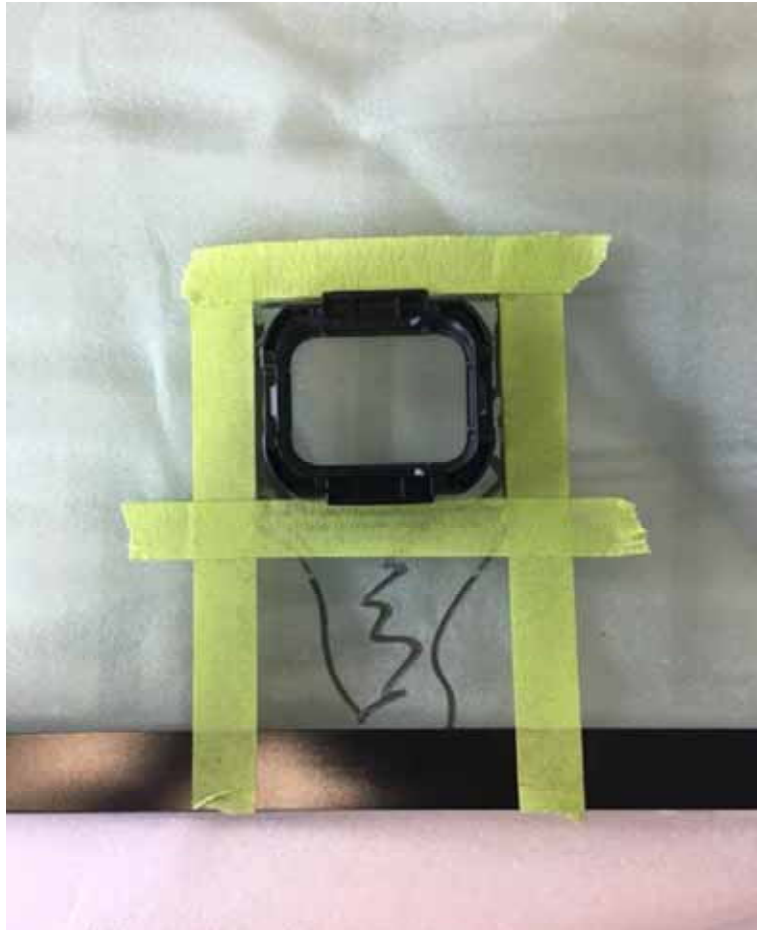
4. With the windshield face down measure out 3 and 3/4 of inch from the very bottom edge of the windshield



Utilize the dry erase marker and painters tape to mark off where the bracket will go

5. With the area measured off use the painters tape to mark off the area where the bracket will go. Re-measure *placement needs to be approximate not exact*





6. Clean the surface of the windshield using GC-800 Glass cleaner

7. Using U-418 (adhesive and caulk gun) apply the adhesive to the back side of the new bracket and press down to the glass within the taped off area. *Ensure that adhesive does not bleed into the center area, as that will interfere with clear sensor gasket application.*



Note the 4 raised points on the backside of the bracket. Adhesive application needs to be liberal enough to ensure a proper contact patch to the windshield, as these 4 raised points will contact the glass first



Recommended curing time for adhesive:

15-30 mins-workable

24 hours fully cured

time may vary depending on temp and humidity

8. Once the bracket has settled within the tack free/working time frame, installation of the new windshield can be performed, however it is recommended to wait the full 24 hours for full cure.



9. Install Sensor Gasket Part# 21836770, by removing protective film from back side, install in direct center point of bracket, remember to remove the remaining plastic protective film and try to minimize the amount of air bubble between glass and gasket.



Recommended curing time for adhesive:
 15-30 mins-workable
 24 hours fully cured
 time may vary depending on temp and humidity

10. With the gasket installed, reverse steps 1 and 2 for reconnecting the Rain Sensor.

Solution visibility	Dealer distribution
Function(s)/component(s) affected	
Function affected	Rain Sensor Bracket
Conditions	
Weather conditions	rain
Administration	
Author	A241298
Dealer ID	A241298
Last modified by	RU4469V
Creation date	23-05-2019 20:05
Date of last update	01-11-2019 19:11

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