

## Introduction

This document provides instructions for installing an accessory on a Cat® Utility Vehicle (CUV). Do not perform any procedure in this document until you have read and understood the information contained in this document and the Operation and Maintenance Manual.

## Safety Section

### WARNING

Do not operate or work on this product unless you have read and understood the instruction and warnings in the relevant Operation and Maintenance Manuals and relevant service literature. Failure to follow the instructions or heed the warnings could result in injury or death. Proper care is your responsibility.

### WARNING

Failure to follow all safety guidelines prescribed in this document and by governing authorities and regulatory agencies may result in severe injury or death of personnel or machine damage.

### WARNING

When removing a major component or attachment, ensure that it is properly blocked or secured before removing mounting hardware. An assembly that is disconnected without proper blocking may shift or fall, resulting in serious injury or death of personnel or machine damage.

### WARNING

Personal injury or death can result from improper maintenance procedures. To avoid injury or death, follow the procedures exactly as stated below.

### WARNING

Personal injury can result from improper handling of chemicals. Make sure you use all the necessary protective equipment required to do the job. Make sure that you read and understand all directions and hazards described on the labels and material safety data sheet of any chemical that is used. Observe all safety precautions recommended by the chemical manufacturer for handling, storage, and disposal of chemicals.

### WARNING

Before servicing/performing maintenance on the machine, electrical power must be physically disconnected; battery cables must be disconnected from the battery. All applicable lock out and tag out procedures must be followed.

### WARNING

Observe the safe working load limits of all lifting and blocking devices and keep a safe distance from suspended/blocked loads. Personnel may be seriously injured or killed by falling loads.

### WARNING

Do not operate the machine if any guards or covers are missing or inadequately secured. Personnel could be seriously injured or machine damage may occur.

# Caterpillar®

## Installation Instructions - Accessory Kit

### Composite Door Kit

(p/n 575-9446)



■ **NOTE:** Read these Installation Instructions thoroughly before beginning the installation process. Retain these Installation Instructions for future reference.

#### Front Doors:

| QTY | DESCRIPTION                   |
|-----|-------------------------------|
| 1   | Left-Side Door Assembly       |
| 1   | Right-Side Door Assembly      |
| 2   | Window Crank Handle           |
| 2   | Window Crank Retainer         |
| 2   | Striker Pin                   |
| 1   | Left-Side Upper Frame Hinge   |
| 1   | Right-Side Upper Frame Hinge  |
| 1   | Left-Side Lower Frame Hinge   |
| 1   | Right-Side Lower Frame Hinge  |
| 1   | Left-Side Striker Bracket     |
| 1   | Right-Side Striker Bracket    |
| 1   | Left-Side Strap Bracket       |
| 1   | Right-Side Strap Bracket      |
| 2   | Door Strap                    |
| 1   | Left-Side Lower Seal          |
| 1   | Right-Side Lower Seal         |
| 2   | Striker Bracket Casting       |
| 4   | Nyloc Flange Nut (M10)        |
| 4   | Nyloc Flange Nut (M6)         |
| 8   | Nyloc Nut (M10)               |
| 8   | Nyloc Nut (M8)                |
| 4   | Flange Screw (M6 x 20 mm)     |
| 2   | Nyloc Nut (M12)               |
| 2   | Belleville Washer (M12)       |
| 4   | Aluminum Spacer               |
| 8   | Hex Cap Screw (M10 x 80 mm)   |
| 12  | Truss Head Screw (M8 x 25 mm) |
| 4   | Cap Screw (M10 x 60 mm)       |

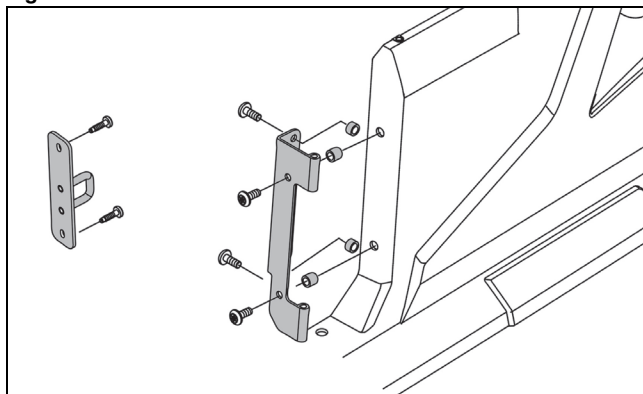
#### Rear Doors:

| QTY | DESCRIPTION                   |
|-----|-------------------------------|
| 1   | Left-Side Door Assembly       |
| 1   | Right-Side Door Assembly      |
| 4   | Nyloc Flange Nut (M10)        |
| 4   | Nyloc Flange Nut (M6)         |
| 2   | Nyloc Flange Nut (M8)         |
| 4   | Nyloc Nut (M10)               |
| 4   | Flange Screw (M6 x 20 mm)     |
| 6   | Hex Screw (M8 x 25 mm)        |
| 4   | Aluminum Spacer               |
| 8   | Hex Cap Screw (M10 x 80 mm)   |
| 4   | Truss Head Screw (M8 x 25 mm) |
| 2   | Hex Cap Screw (M8 x 100 mm)   |
| 2   | Nyloc Nut (M12)               |
| 1   | Left-Side Lower Hinge         |
| 1   | Right-Side Lower Hinge        |
| 2   | Backer Plate                  |
| 1   | Left-Side Strap Bracket       |
| 1   | Right-Side Strap Bracket      |
| 1   | Left-Side Lower Seal          |
| 1   | Right-Side Lower Seal         |
| 2   | Striker Bracket Casting       |
| 2   | Striker Pin                   |
| 1   | Upper ROPS Hinge              |
| 1   | Front Upper Hinge             |
| 2   | Door Strap                    |
| 2   | Front Door Lower Hinge        |

## FRONT DOOR INSTALL

1. Remove the four screws securing the door bracket to the frame; then remove the door and the bracket. Account for the four spacers. See Fig. 1.
2. Remove the two screws securing the door striker. Remove the striker; then install the screws without the striker. Tighten securely. See Fig. 1.

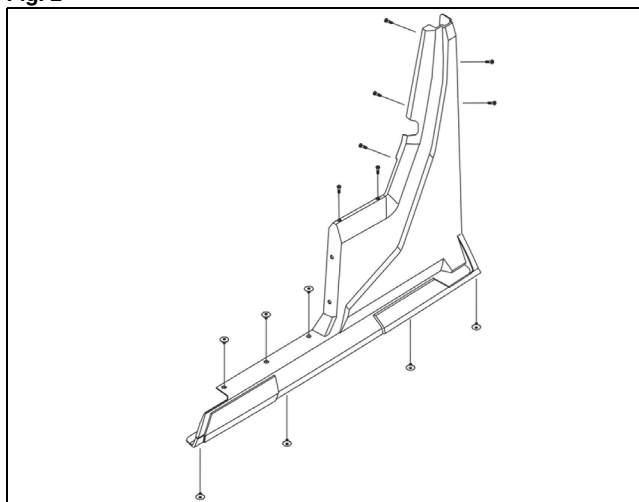
Fig. 1



VOR-457

3. Remove the screws securing the front left-side panel. Remove the panel. See Fig. 2.

Fig. 2

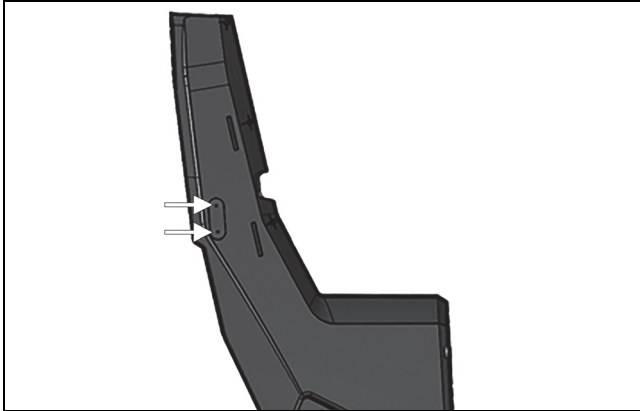


VOR-628

4. Remove the hardware securing the shoulder restraint to the frame. Remove the restraint.

- On the inside of the side panel, locate the two drill locations. See Fig. 3.

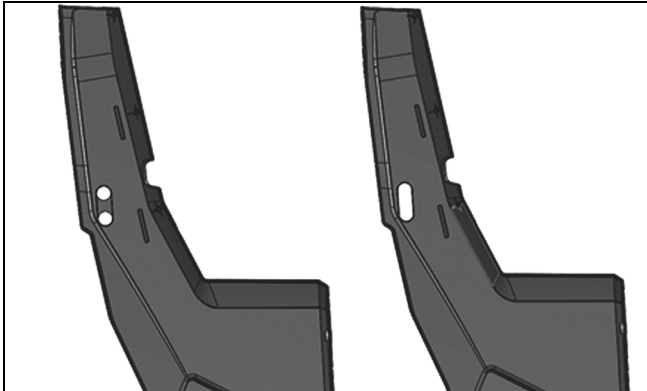
**Fig. 3**



VOR-609

- Using a 1-in. drill bit, drill out both locations; then using a suitable cutting tool, remove the area in the panel indicated by the boss in the panel. Deburr the edges after cutting the panel. See Fig. 4.

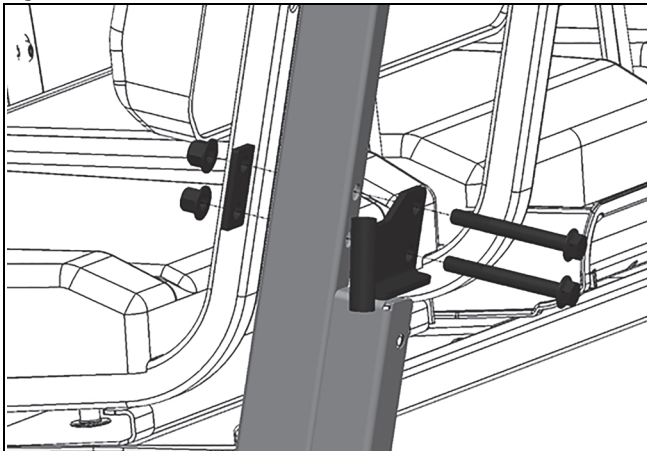
**Fig. 4**



VOR-610

- Secure Front Left-side Lower Hinge to the frame using two Cap Screws (M10 x 80 mm), one Hinge Plate, and two M10 Flange Nuts. Tighten securely. See Fig. 5.

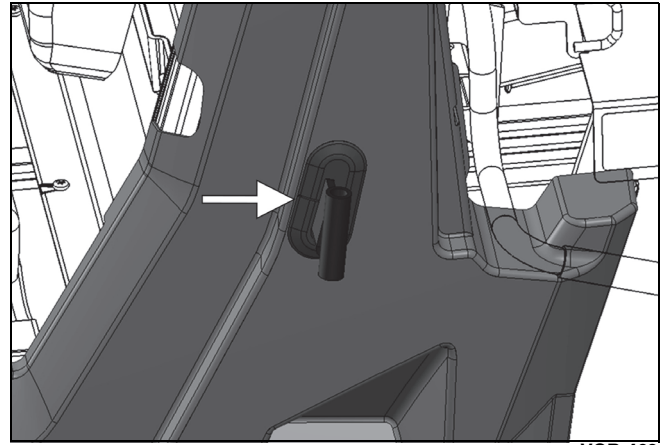
**Fig. 5**



VOR-608

- Install the side panel using the existing hardware; then install Seal around the lower hinge making sure the seal is installed securely into the side panel. See Fig. 6.

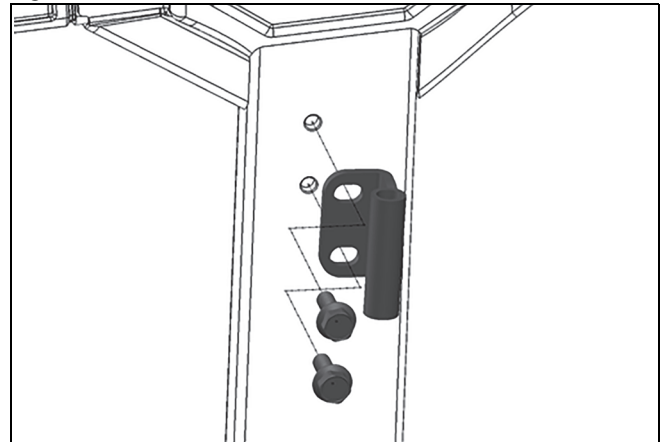
**Fig. 6**



VOR-463

- Loosely secure Front Upper Hinge to the center ROPS tube using two Cap Screws (M8 x 25 mm); then press the hinge towards the front of the vehicle and hold. Tighten securely. See Fig. 7.

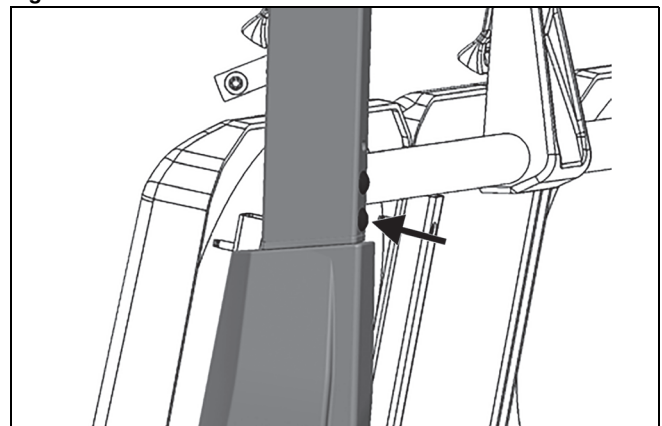
**Fig. 7**



VOR-616

- Remove the lower screw securing the center ROPS tube to the frame. See Fig. 8.

**Fig. 8**



VOR-613

- Loosely secure Striker Pin to the center of Striker Bracket using one M12 Nyloc Nut; then secure the striker assembly to the ROPS using one Cap Screw (M8 x 25 mm), one Cap Screw (M8 x 100 mm), and one M8 Flange Nyloc Nut. Tighten upper and lower cap screws securely. See Fig. 9 and 10.

Fig. 9

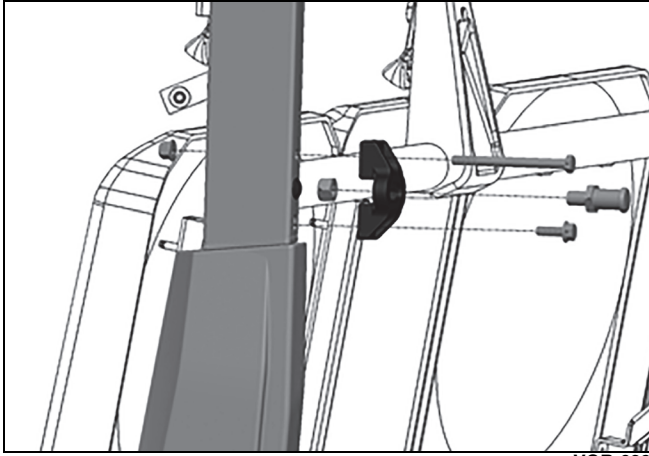
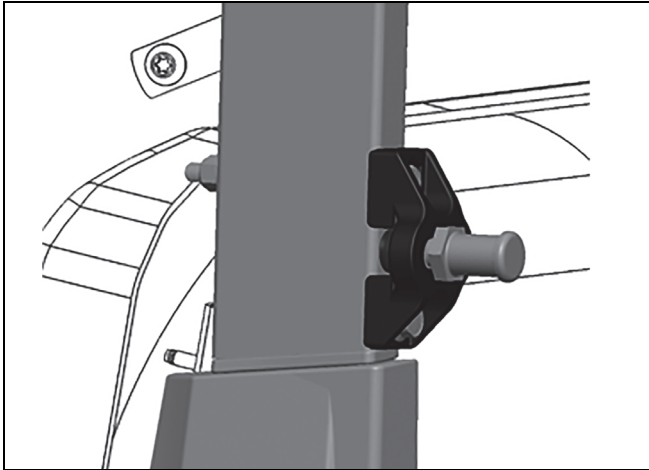
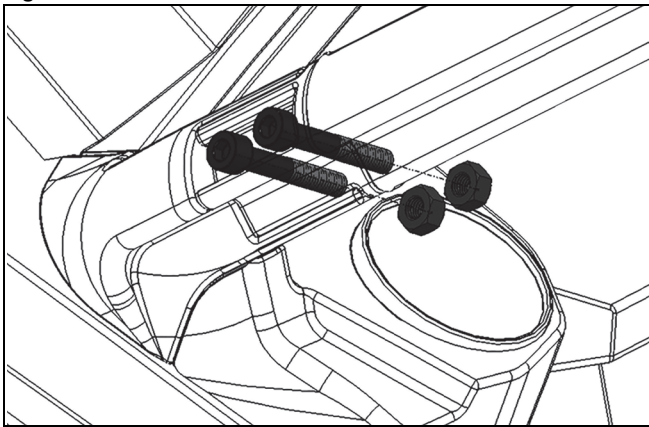


Fig. 10



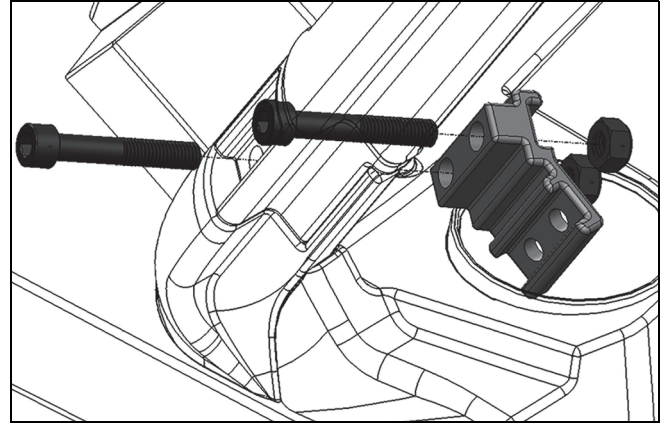
12. Loosen the two allen-head screws and nuts securing the ROPS to the frame. Only remove the nuts at this time. See Fig. 11.

Fig. 11



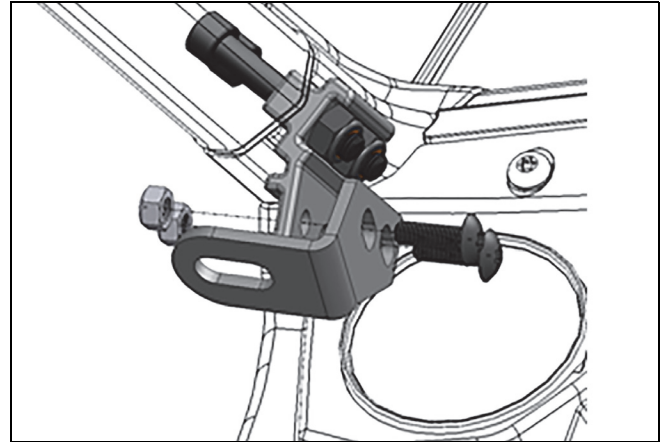
13. Position Striker Bracket with the existing screws; then remove one screw and install new Allen-Head Screw (M10 x 60 mm) and one M10 Hex Nut. Remove the other screw and install new Allen-Head Screw (M10 x 60 mm) and one M10 Hex Nut. Tighten to 34 ft-lb. See Fig. 12.

Fig. 12



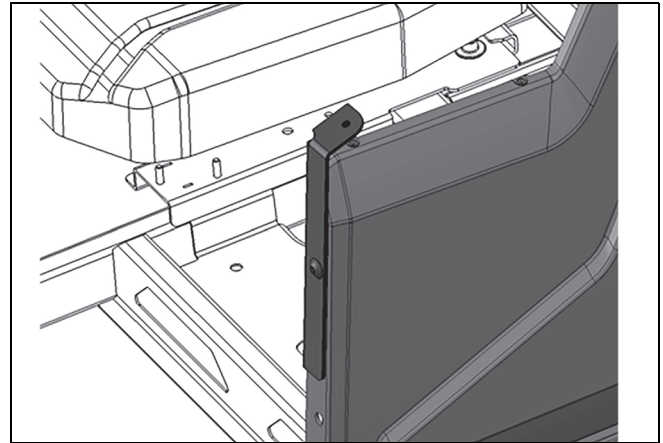
14. Position Striker onto the inside of the striker bracket and secure using two Button-Head Screws (M8 x 25 mm) and two M8 Nylon Nuts. Tighten only until snug at this time. See Fig. 13.

Fig. 13



15. Secure Left-Side Door Strap Bracket to the frame using two M8 Torx Screws. Tighten securely. See Fig. 14.

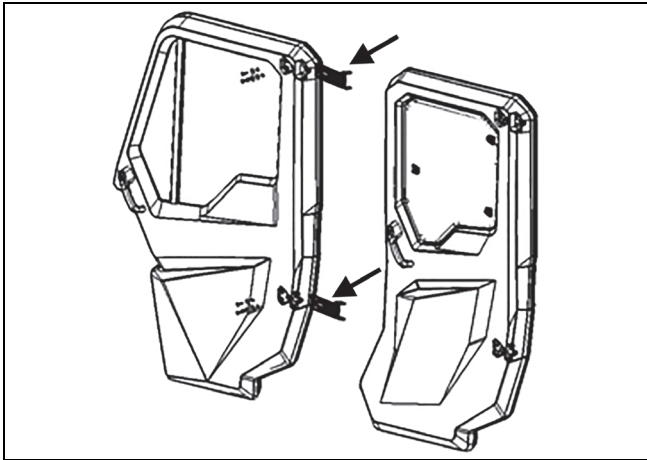
Fig. 14



16. Remove the cap screws, washers, and spacers securing the upper and lower hinges from the front and rear doors; then install the front door hinges onto the rear door. Tighten the hardware securely. See Fig. 15 and 16.

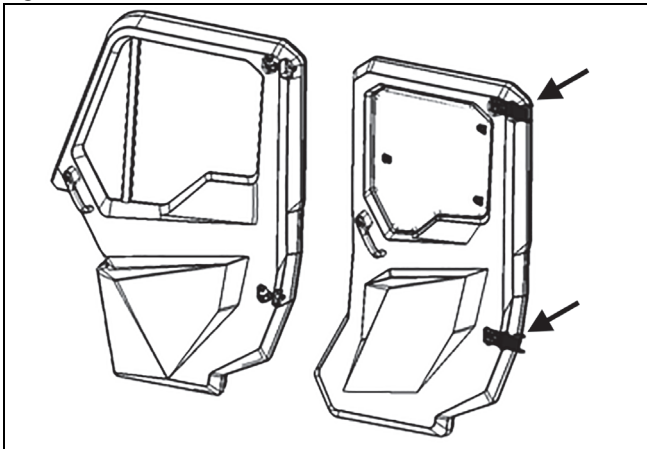


Fig. 15



VOR-618

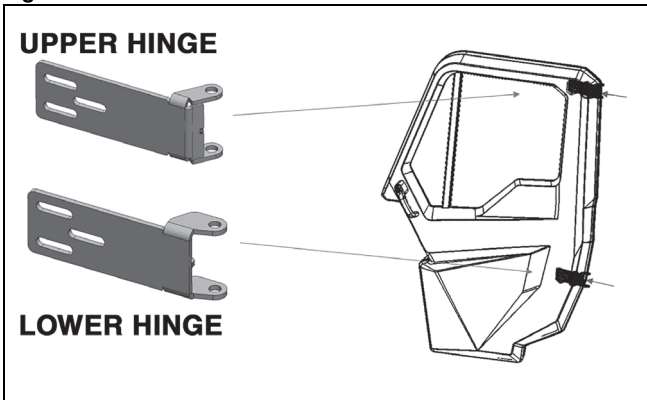
Fig. 16



VOR-619

17. Install the rear door hinges onto the front door using the existing hardware. Tighten securely. See Fig. 17.

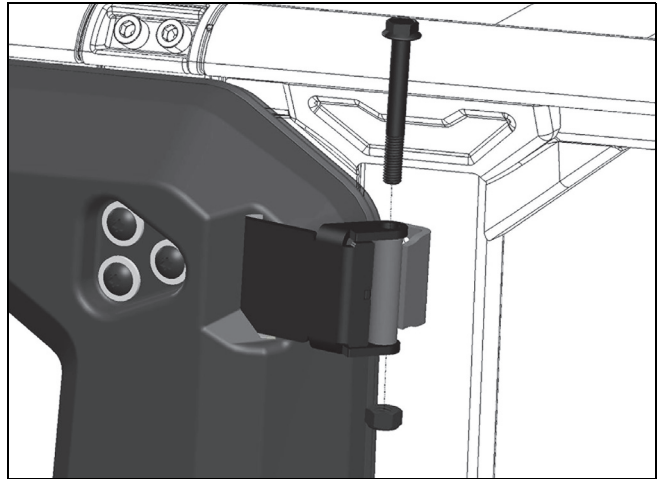
Fig. 17



VOR-620

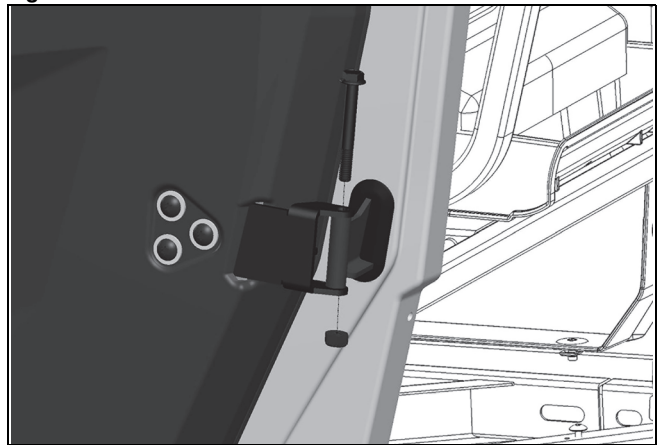
18. Loosen the two screws securing the upper hinge to the ROPS; then position Left-Side Door Assembly with both hinges. Loosely secure two Flange Hex Screws (M8 x 80 mm). See Fig. 18 and 19.

Fig. 18



VOR-632

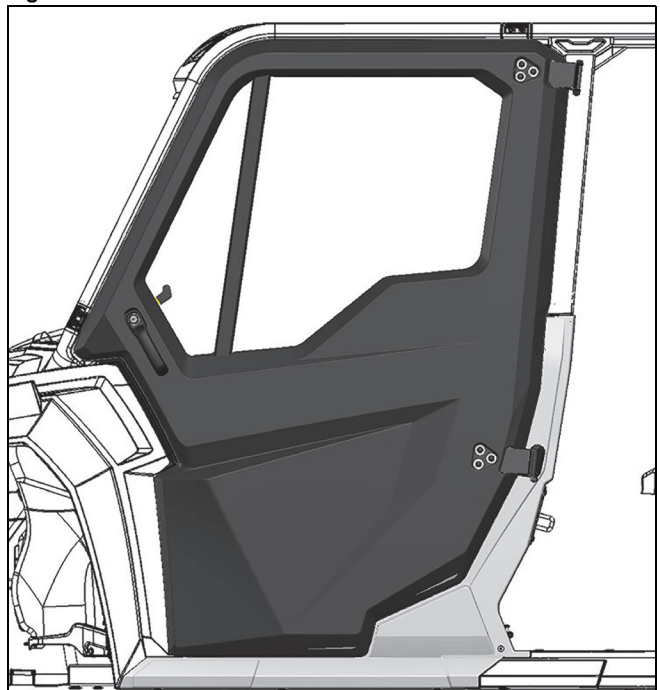
Fig. 19



VOR-631

19. Position the door uniformly inside the door opening on the vehicle; then press the door firmly against the vehicle and tighten the upper hinge fasteners securely. See Fig. 20.

Fig. 20

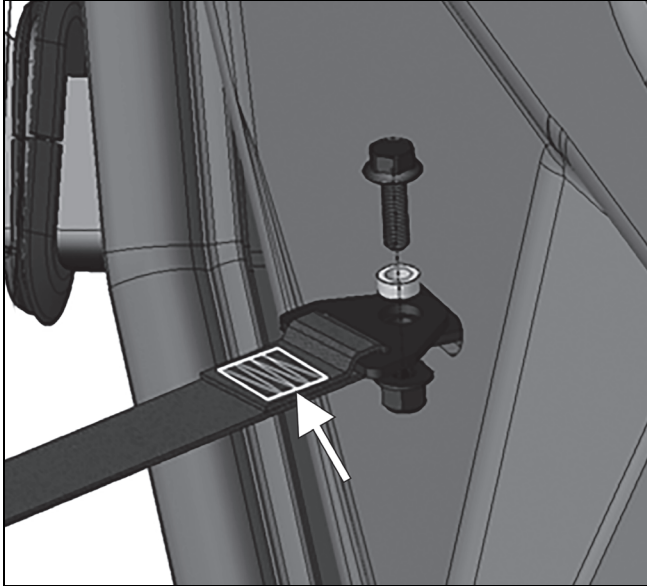


VOR-630

■ **NOTE:** The front door straps need to be installed onto the rear doors and the rear door straps need to be installed onto the front doors.

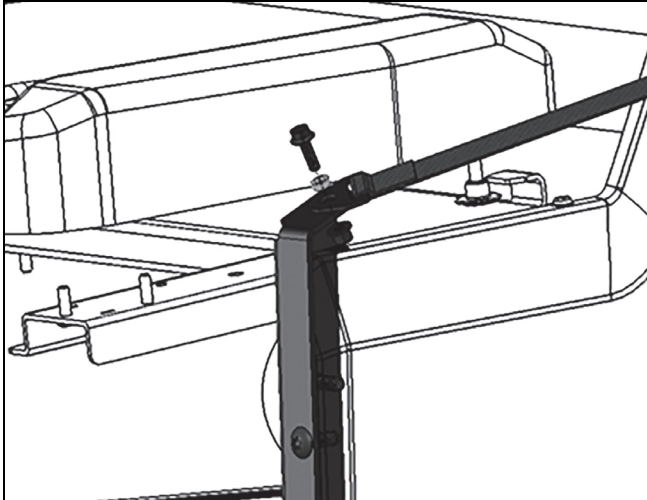
20. Secure Front Door Strap (with the sewing thread) to the strap bracket and the door using two Flange Hex Screws (M6 x 20 mm), two Spacers, and two M6 Flange Nuts. Tighten to 45 in.-lb. The strap ends should be free to rotate. See Fig. 21 and 22.

Fig. 21



VOR-624

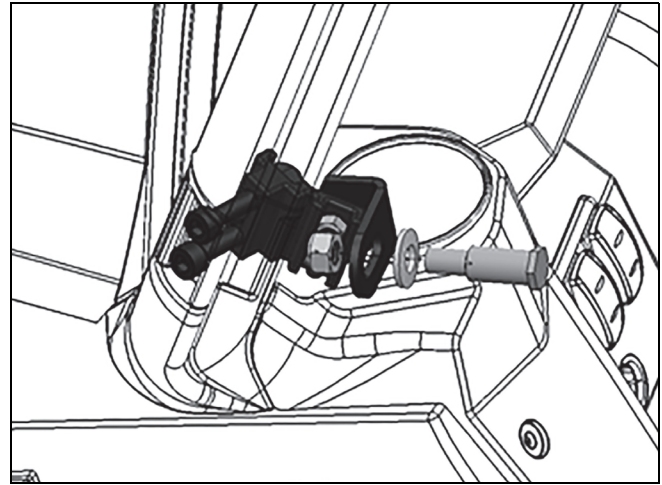
Fig. 22



VOR-533

21. Secure Striker Bolt to the striker bracket using one M12 Belleville Washer and one M12 Hex Nut. Tighten the nut with the striker bolt on the outside of the slot in the bracket. See Fig. 23.

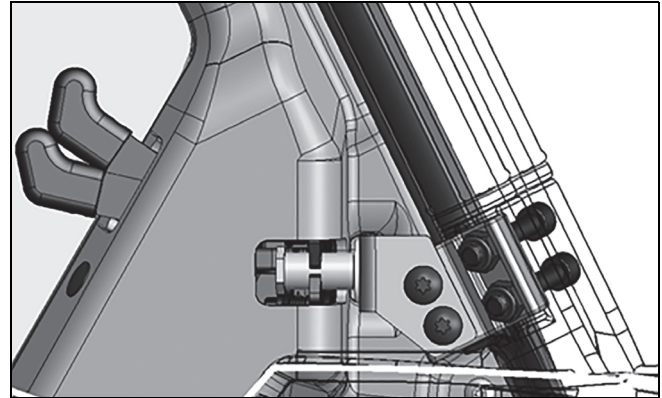
Fig. 23



VOR-534

22. With one person inside the vehicle, align the striker bolt with the door latch and latch the door; then tighten the two screws securing the striker bracket. Verify the height adjustment is correct by opening and closing the door slowly. Be sure the striker bolt does not interfere with the door frame or the liner prior to engaging the door latch. See Fig. 24.

Fig. 24



VOR-535

23. Once the door closes and latches on the striker bolt smoothly, incrementally adjust the striker bolt toward the inside of the vehicle to increase the sealing pressure on the front of the door. Be sure that door latch engages the striker pin with two full clicks at the final adjustment point.

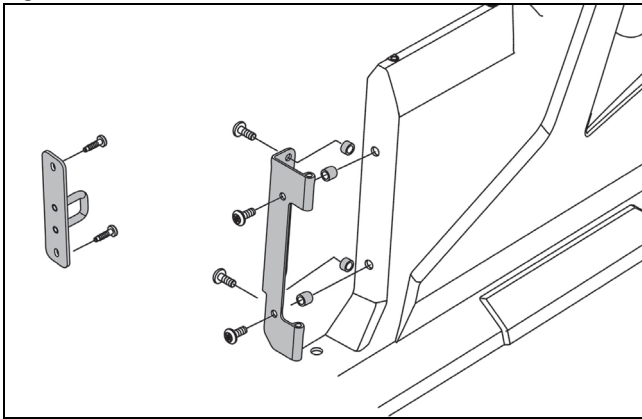
24. Repeat for opposite front door.

## REAR DOOR INSTALL

1. Remove the four screws securing the door bracket to the frame; then remove the door and the bracket. Account for the four spacers. See Fig. 25.

- Remove the two screws securing the door striker. Remove the striker; then install the screws without the striker. Tighten securely. See Fig. 25.

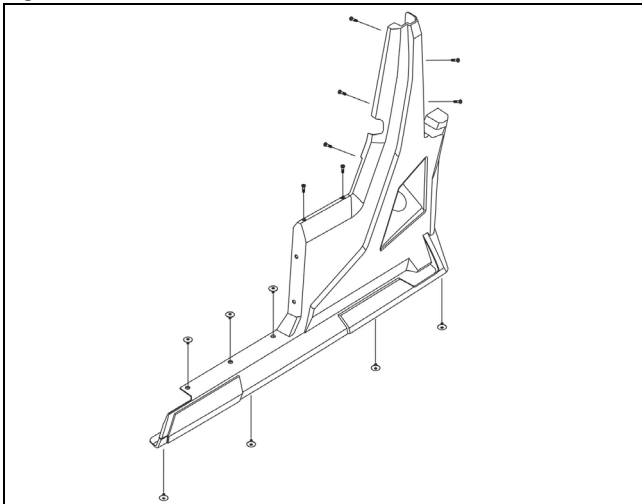
Fig. 25



VOR-457

- Remove the gas tank cap; then remove the screws securing the left-side panel. Remove the panel. See Fig. 26.

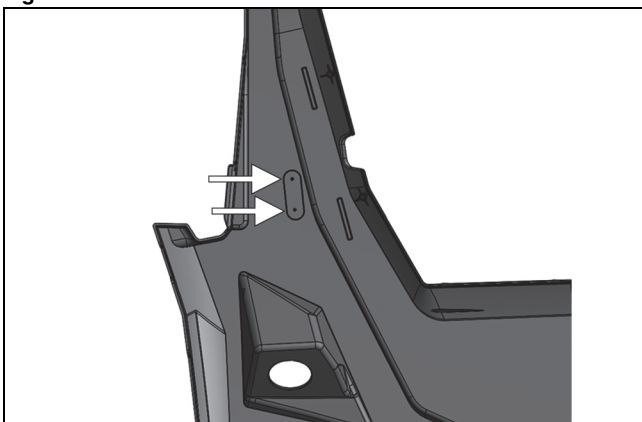
Fig. 26



VOR-458

- Remove the hardware securing the shoulder restraint to the frame. Remove the restraint.
- On the inside of the side panel, locate the drill locations. See Fig. 27.

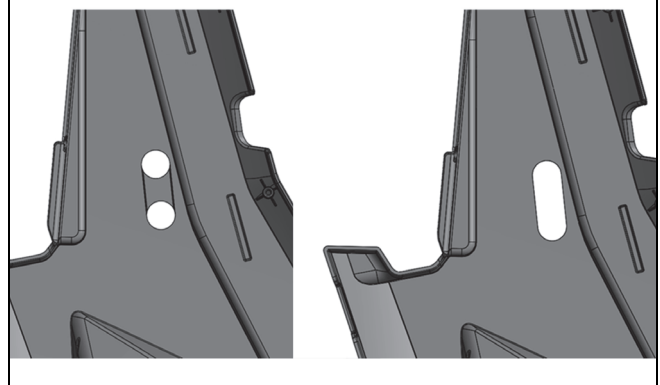
Fig. 27



VOR-459

- Using a 1-in. drill bit, drill out both locations; then using a suitable cutting tool, remove the area in the panel indicated by the boss in the panel. Deburr the edges after cutting the panel. See Fig. 28.

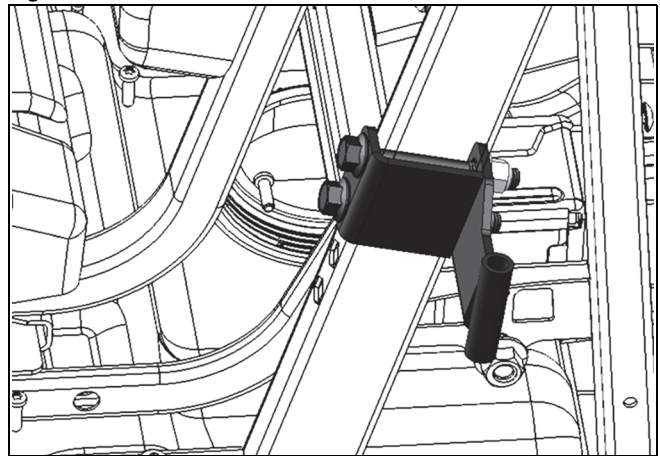
Fig. 28



VOR-460

- Secure Left-side Lower Hinge to the frame aligning using two Cap Screws (M10 x 80 mm) and two M10 Flange Nuts. Tighten securely. See Fig. 28.

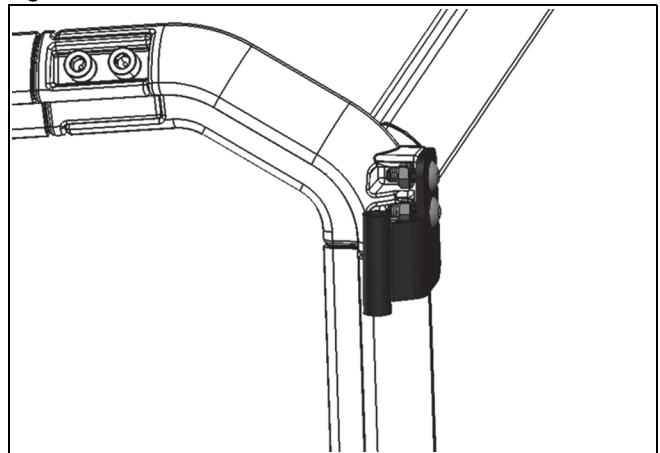
Fig. 28



VOR-461

- Secure Left-side Upper Hinge to the upper rear portion of the ROPS using two Torx Screws (M8 x 25 mm) and two M8 Hex Lock Nuts. The nuts will slide into the openings in the ROPS. Tighten securely making sure the hinge is level. See Fig. 29.

Fig. 29

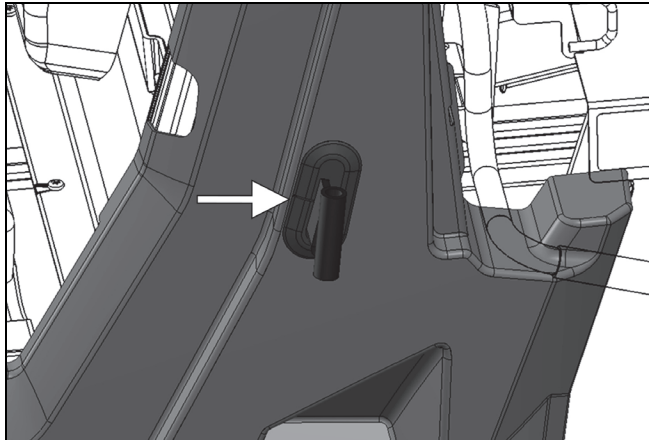


VOR-462



9. Install the side panel using the existing hardware; then install Seal around the lower hinge making sure the seal is installed securely into the side panel. See Fig. 30.

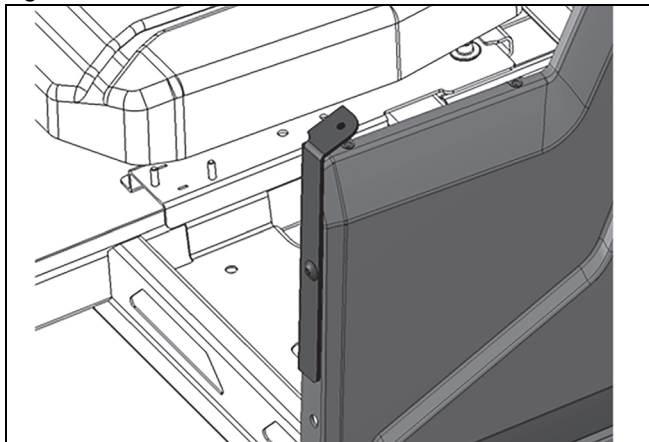
Fig. 30



VOR-463

13. Secure Left-Side Door Strap Bracket to the frame using two M8 Torx Screws. Tighten securely. See Fig. 31.

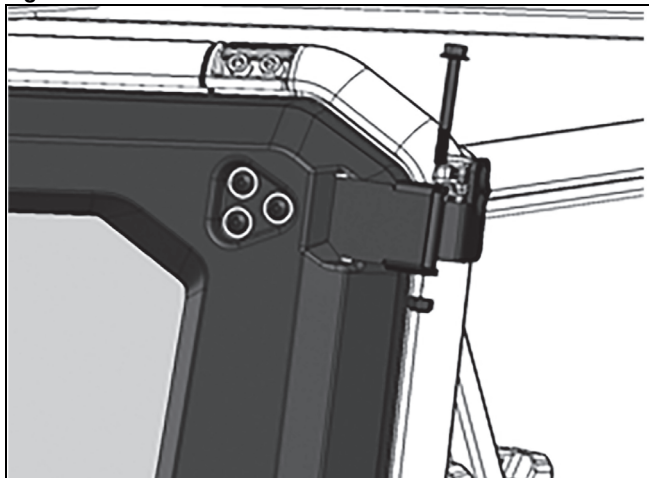
Fig. 31



VOR-527

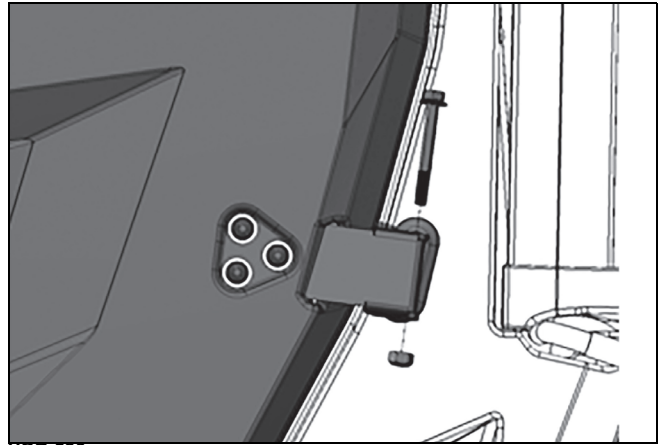
14. Loosen the two screws securing the upper hinge to the ROPS; then position Left-Side Door Assembly with both hinges. Loosely secure two Flange Hex Screws (M8 x 80 mm). See Fig. 32 and 33.

Fig. 32



VOR-529

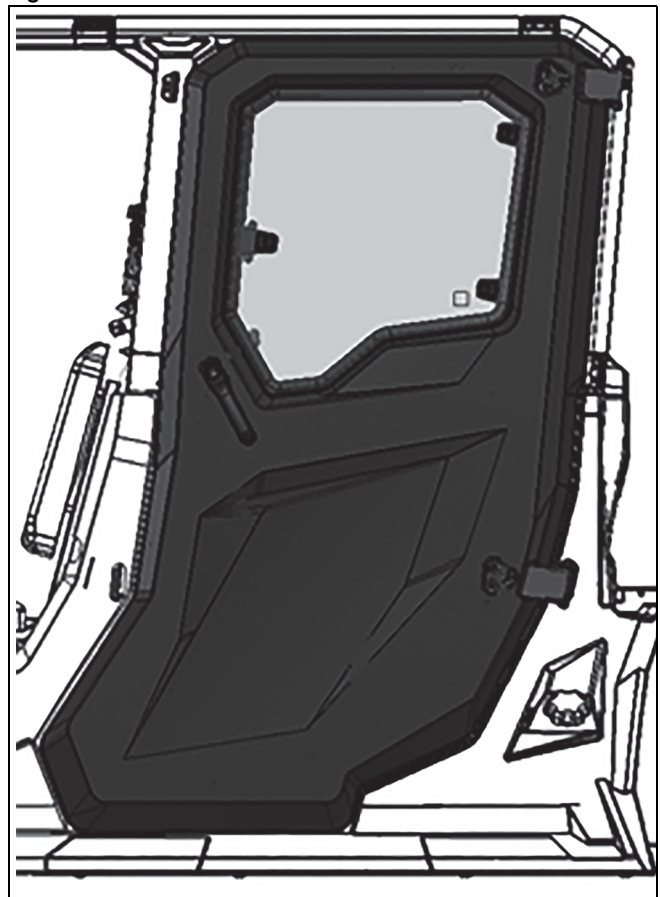
Fig. 33



VOR-530

15. Position the door uniformly inside the door opening on the vehicle; then press the door firmly against the vehicle and tighten the upper hinge fasteners securely. See Fig. 34.

Fig. 34



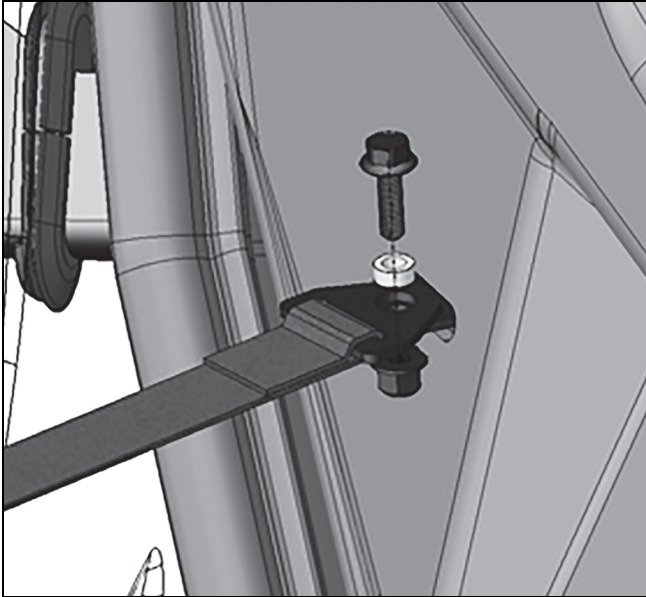
VOR-623

■ **NOTE:** The front door straps need to be installed onto the rear doors and the rear door straps need to be installed onto the front doors.

16. Secure Door Strap to the strap bracket and the door using two Flange Hex Screws (M6 x 20 mm), two Spacers, and two M6 Flange Nuts. Tighten to 45 in.-lb. The strap ends should be free to rotate. See Fig. 35 and 36.

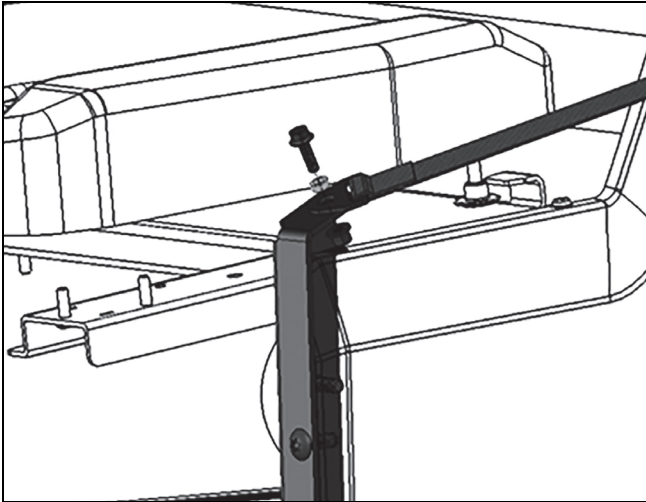


Fig. 35



VOR-532

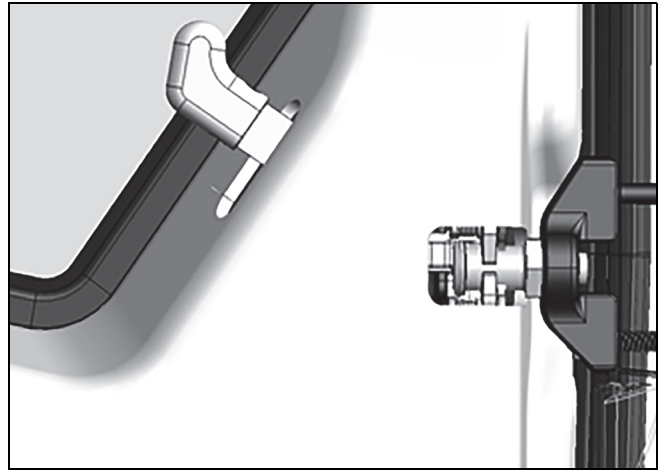
Fig. 36



VOR-533

18. With one person inside the vehicle, align the striker bolt with the door latch and latch the door; then tighten the two screws securing the striker bracket. Verify the height adjustment is correct by opening and closing the door slowly. Be sure the striker bolt does not interfere with the door frame or the liner prior to engaging the door latch. See Fig. 37.

Fig. 37



VOR-626

19. Once the door closes and latches on the striker bolt smoothly, incrementally adjust the striker bolt toward the inside of the vehicle to increase the sealing pressure on the front of the door. Be sure that door latch engages the striker pin with two full clicks at the final adjustment point.
20. Repeat for opposite rear door.