



AI 5226001K001

ASSEMBLY INSTRUCTION

January, 2024

ATTENTION:

Service Managers / Parts Managers.

REQUIRED PARTS:

- (1) S5226001K001 Service Kit
 - (13) A5221026-001 Bolt
 - (5) A5221027-001 Locknut
 - (12) A5221030-001 Flat washer
 - (2) S5220006-001 Height adjuster
 - (1) S5220007-001 Hardware kit
 - (9) FE410137AW10 Bolt
 - (8) FE410137AW12 Bolt
 - (8) GE811637WY01 Wide washer
- Blue thread-locking compound (obtain locally)

TO OBTAIN PARTS:

To obtain the appropriate service kit, log in to the Solutions and Warranty portal at autocar.service-now.com/CSM and select Request Recall / Service Program Parts and submit the request to the warranty team.



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SAFETY NOTICES:



WARNING

Allow the vehicle's engine and cooling system to cool to ambient temperature before performing the repair procedure. A hot engine or cooling assembly may cause burns or other personal injury.



WARNING

Never rely on the hydraulic pressure to hold the cab in an open position. Always use the safety pin in the cab tilt lock tube to prevent serious personal injury or death.



WARNING

To prevent eye injury, always wear eye protection when performing vehicle maintenance, service or inspection.



WARNING

Before working on a vehicle, set the parking brake, place the transmission in neutral and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.



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Working on CNG/LNG Trucks

SAFETY INSTRUCTIONS

If you store or dispense Compressed Natural Gas (CNG) or Liquefied Natural Gas (LNG), or if you work on CNG or LNG trucks, your location must be fully compliant with applicable codes, regulations and standards, including National Fire Protection Associate (NFPA) codes, Society of Automotive Engineers (SAE) standards, American National Standards Institute (ANSI) Natural Gas Vehicle (NGV) standards, the United States Code of Federal Regulations (CFR) and your state and local fire and other applicable codes (including, for example, the California Code of Regulations and the Texas Administrative Code).

Contact your local fire department for guidance and additional compliance information.

Technicians working on Autocar trucks with CNG or LNG engines must be trained in the proper repair of CNG and LNG trucks and engines and the safe storage and dispensing of CNG and LNG.

Working on CNG Fuel Systems



WARNING

CNG fuel systems include a high pressure (3600 psi) system for fuel storage and a low pressure system (125 psi) for consumption by the engine. Understanding the characteristics of CNG and how the fuel system works will prevent injury and damage to persons and property.

Attempting to operate or maintain any CNG fuel system without proper training is dangerous. Complete training and consult instructional bulletins from the CNG system suppliers, such as Agility Fuel Systems' Field Service Bulletin, *Safely Working on CNG Fuel Systems*.

Welding and Hot Work Near CNG and LNG Trucks



WARNING

Welding, grinding, and other "hot work" can be safely performed on or near a CNG or LNG vehicle, but certain precautions must be followed. Understand and perform the necessary precautions provided by the CNG system suppliers, such as Agility Fuel Systems' Field Service Bulletin, *Welding and Hot Work Precautions Near CNG and LNG Vehicles*.



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CNG Cylinders



WARNING

CNG fuel containers must meet Federal Motor Vehicle Safety Standard (FMVSS) 304 (Compressed Natural Gas Fuel Container Integrity) and/or ANSI/CSA NGV2 (Basic Requirements for Compressed Natural Gas Vehicle Fuel Containers). Both standards specify a detailed visual examination every three years.

Truck owners are required to complete all necessary inspections, in accordance with the applicable standards and other resources, such as the Clean Vehicle Education Foundation and NGV America's Compressed Natural Gas (CNG) Container Visual Inspection Advisory.

FMVSS 304 also requires that cylinders not be used after the end of life (EOL) date provided on the tank label. The EOL date is also displayed in the engine compartment and at the fueling connection of each truck. If there are any question as to proper decommissioning of a cylinder, contact the manufacturer, whose name and address is also required to be on the label.

CNG Fuel Container Pressure Relief Devices (PRDs)



WARNING

PRDs must be properly maintained and positioned for safe operation of a CNG fuel system. Missing vent caps can allow moisture into PRDs and vent lines, which can freeze and damage these safety components. Debris which clogs the PRDs and/or vent lines can prevent proper function.

PRDs must be positioned to vent upward, not outward, from a vehicle.

Ensure that every truck owner completes periodic inspections of the PRDs and vent lines and systems, in accordance with guidance provided by the system component suppliers.

Alert First Responders to CNG and LNG



DANGER

In the event of a fire or other emergency, alert first responders to the presence and location of CNG fuel systems, tanks and dispensers. Ensure that emergency personnel are aware of proper precautions, such as those provided in Agility's *First Responder Guide: CNG and LNG Vehicle Fuel Systems*.



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LOCKOUT/TAGOUT PROCEDURES:



CAUTION

Before entering the vehicle or vehicle body, read and follow OSHA regulations concerning entry and working in “CONFINED SPACE” OSHA 1910.146 and “LOCKOUT/TAGOUT” OSHA 1910.147. Follow OSHA regulations while performing any work on the vehicle. The vehicle must be disabled by the following steps before performing any work on the vehicle:

1. Place the transmission in NEUTRAL.
2. Set the parking brake.
3. Shut the engine OFF.
4. Lock cab doors, keep the key in your pocket. Block the wheels before entering the body or performing any work on the vehicle.
5. Turn the battery disconnect switch OFF, if equipped.
6. Completely drain the air from the primary/A system and secondary/B system by opening the drain valves on the air tanks themselves or by using the drain manifold if supplied. When draining the air tanks, do not look into the area where air is draining. Dirt or sludge particles may be expelled in the air stream and can cause eye injury.
7. Place magnetic “DANGER” signs on both cab doors before entering the body or performing any work on the vehicle.
8. Take proper precautions before working under the vehicle. Use ramps approved for the weight of your vehicle, or use floor jacks and stands. Never work under a vehicle supported by jacks alone. Always use jack stands to support the vehicle.

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SECURING AND REPLACEMENT OF THE SEAT BELT FASTENERS FOR THE LEFT AIR RIDE/RIGHT BENCH SEATING

1. Follow all lockout/tagout procedures and verify the battery disconnect switch is in the "OFF" position. If the unit is not equipped with a battery disconnect switch, disconnect the battery cables beginning with the negative cables, followed by the positive cables. Unlock and open both doors.
2. Remove (4) 3/16" screws securing the fire extinguisher to the fire extinguisher bracket and set aside for reinstallation (*see Figure 1*).

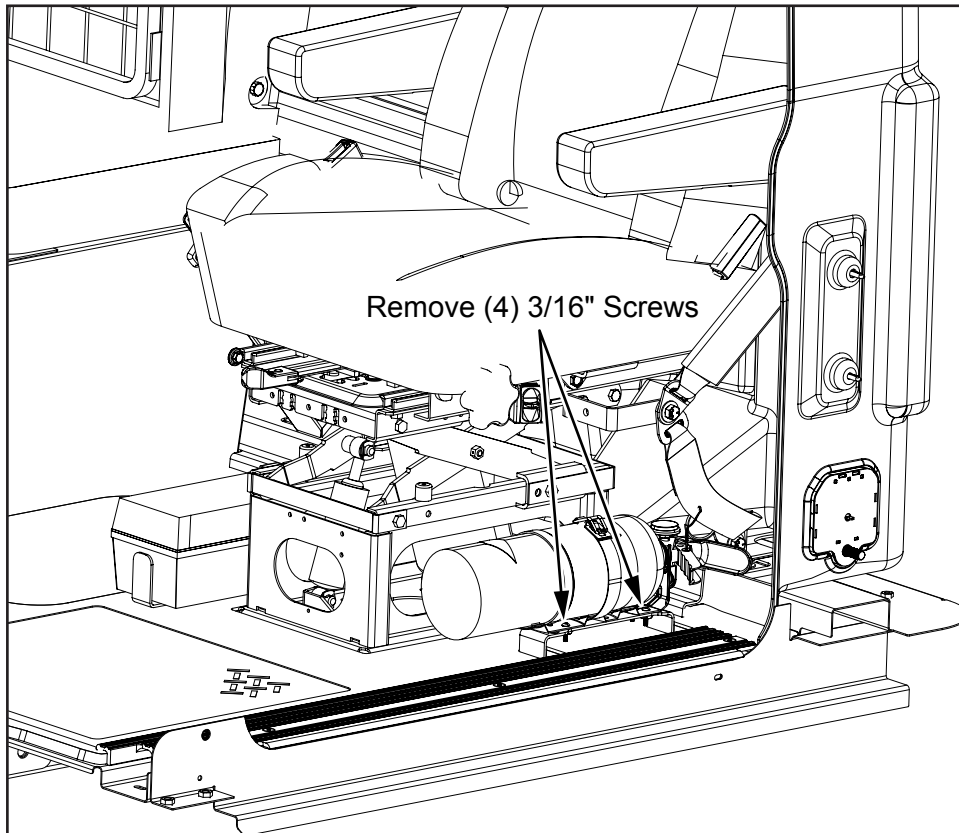


Figure 1

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3. Remove (4) 1/4" screws and the fire extinguisher bracket and set aside for reinstallation (see Figure 2).

Note: Clean locking fluid from fasteners.

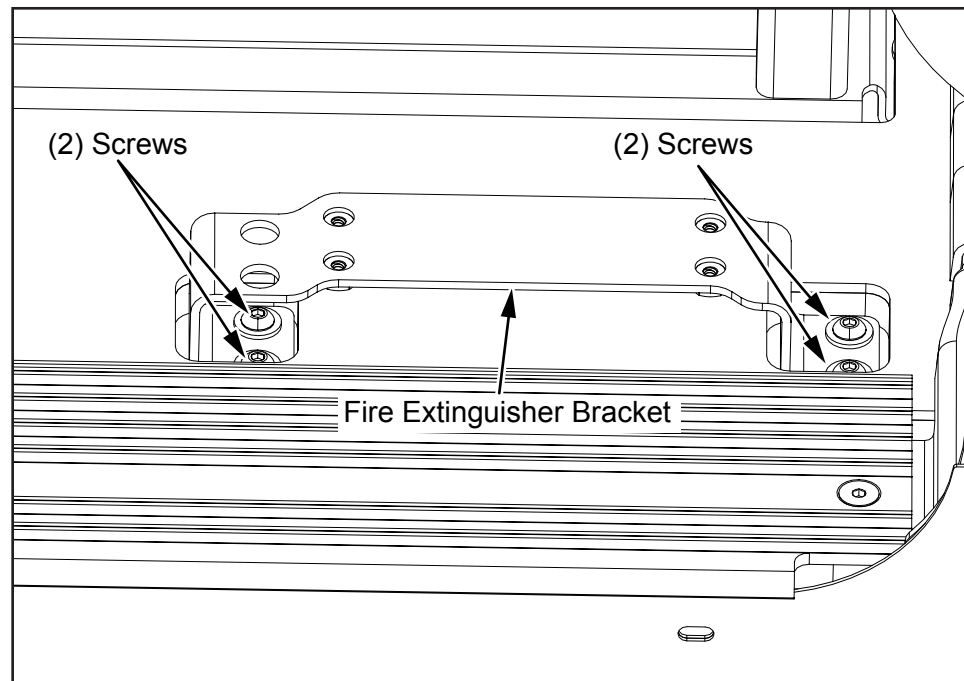


Figure 2

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4. Unlock the strap, remove the flare kit and set aside for reinstallation (see *Figure 3*).

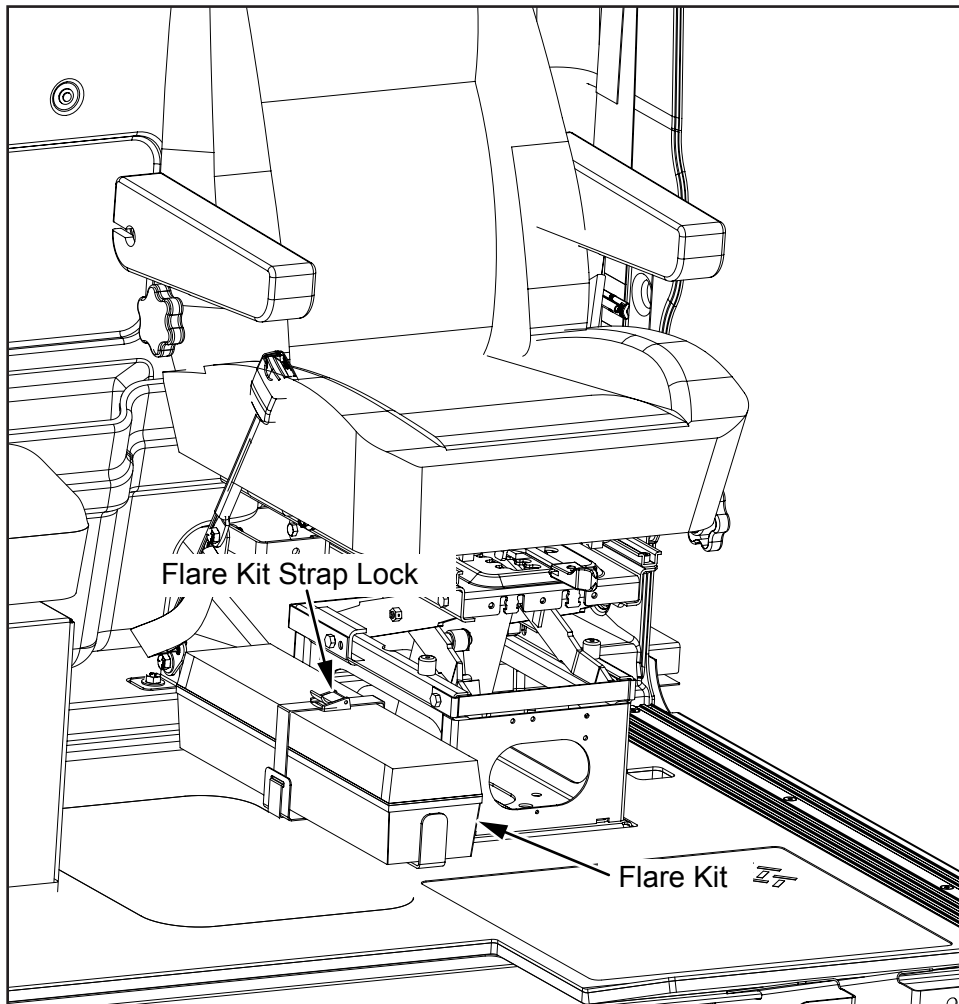


Figure 3

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5. Remove (2) #10 Phillips screws from the flare kit bracket and set aside the screws and the bracket for reinstallation (see Figure 4).

Note: Clean locking fluid from fasteners.

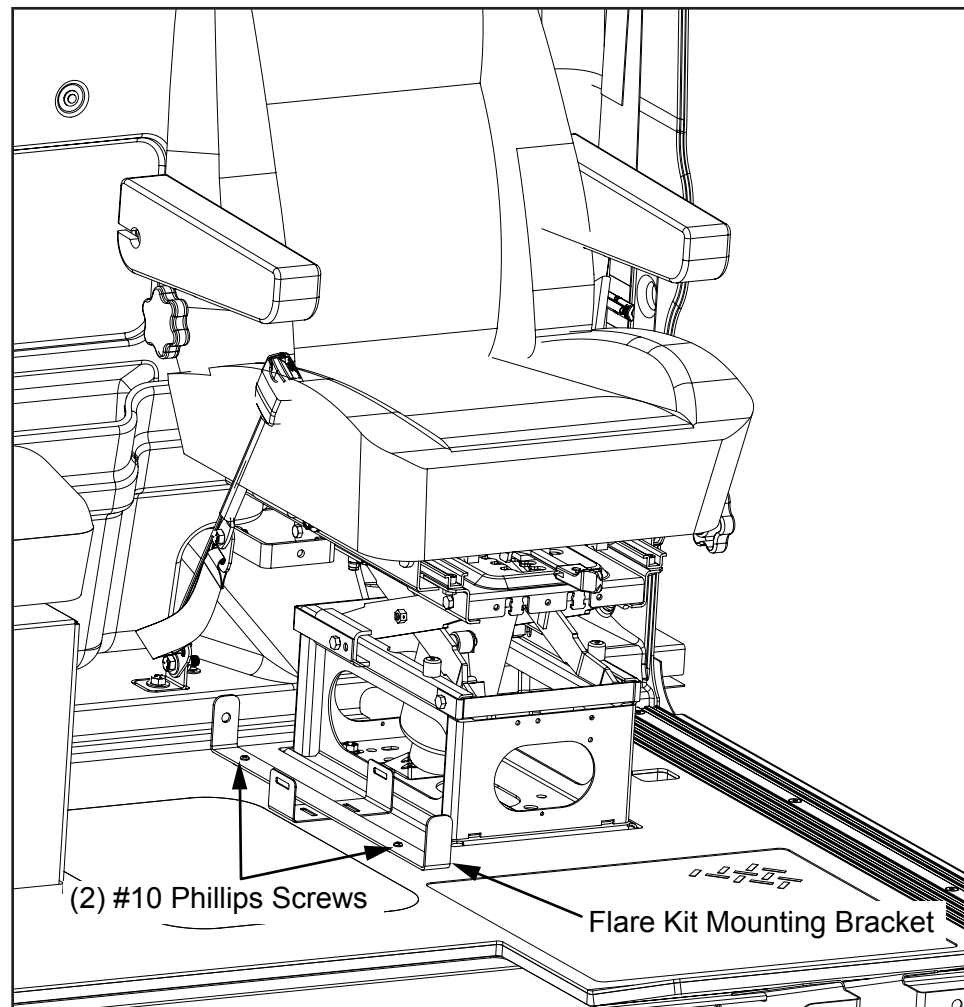


Figure 4

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6. Remove (3) 1/4" screws from the door sill and set aside the door sill and the screws for reinstallation. Repeat step 6 for the opposite side (see Figure 5).

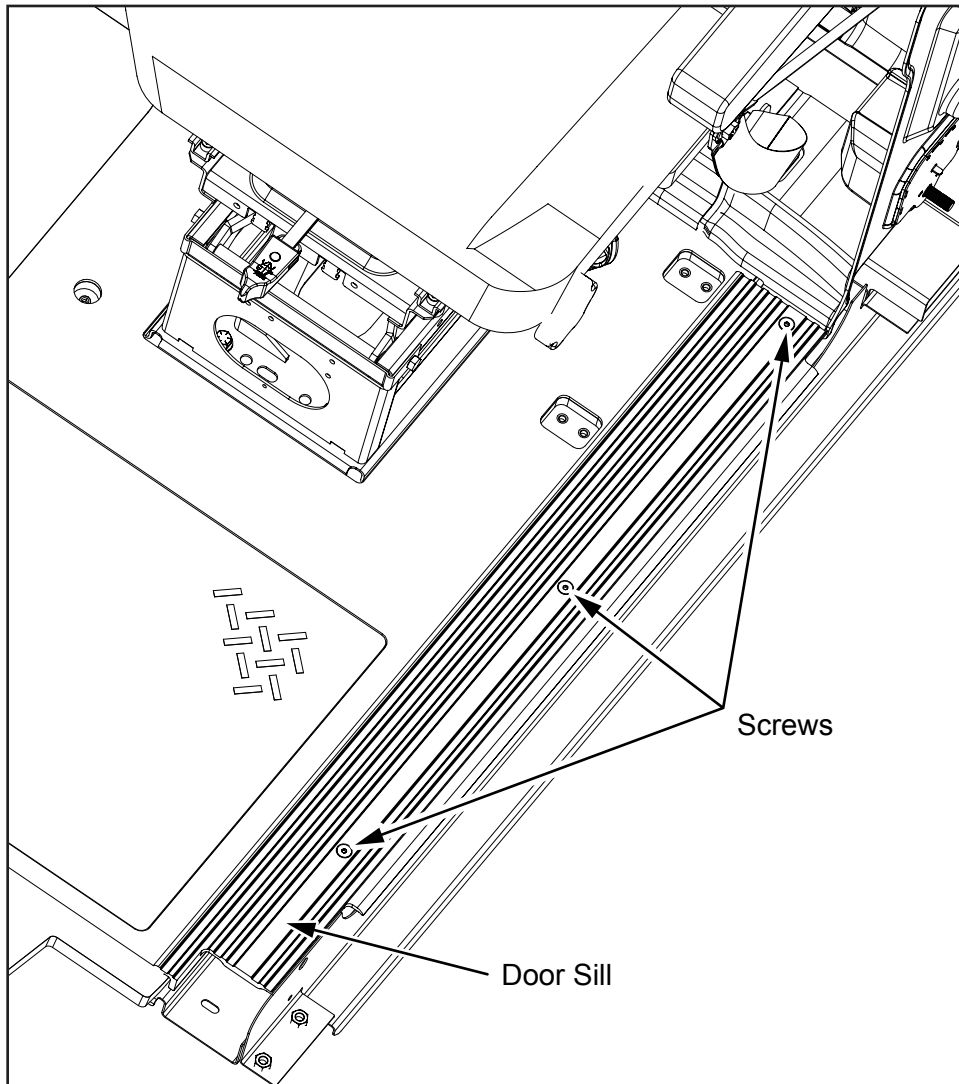


Figure 5

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7. Remove the floor mat and set aside for reinstallation (see *Figure 6*).

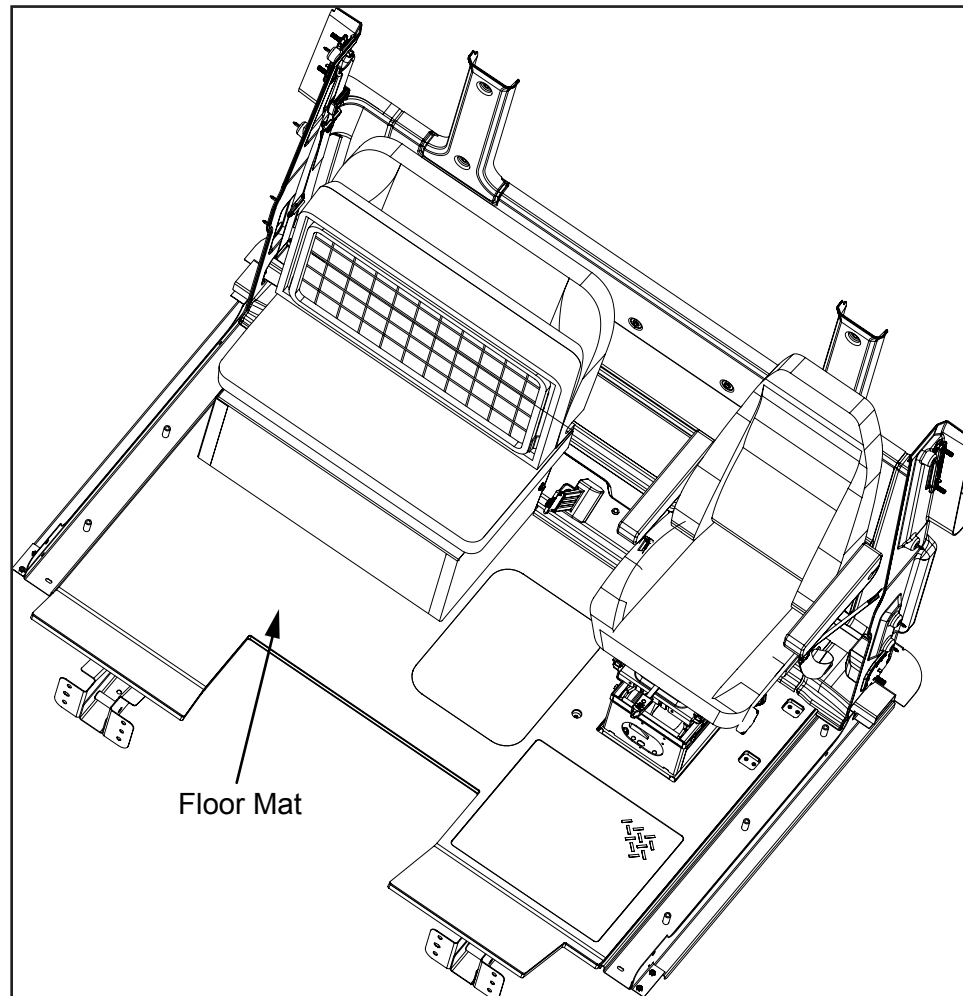


Figure 6

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8. Remove and discard (9) 3/8" bolts with washers (3 are external and 6 are located inside the storage bench). Remove (8) 3/8" bolts with washers and discard (see *Figure 7*).

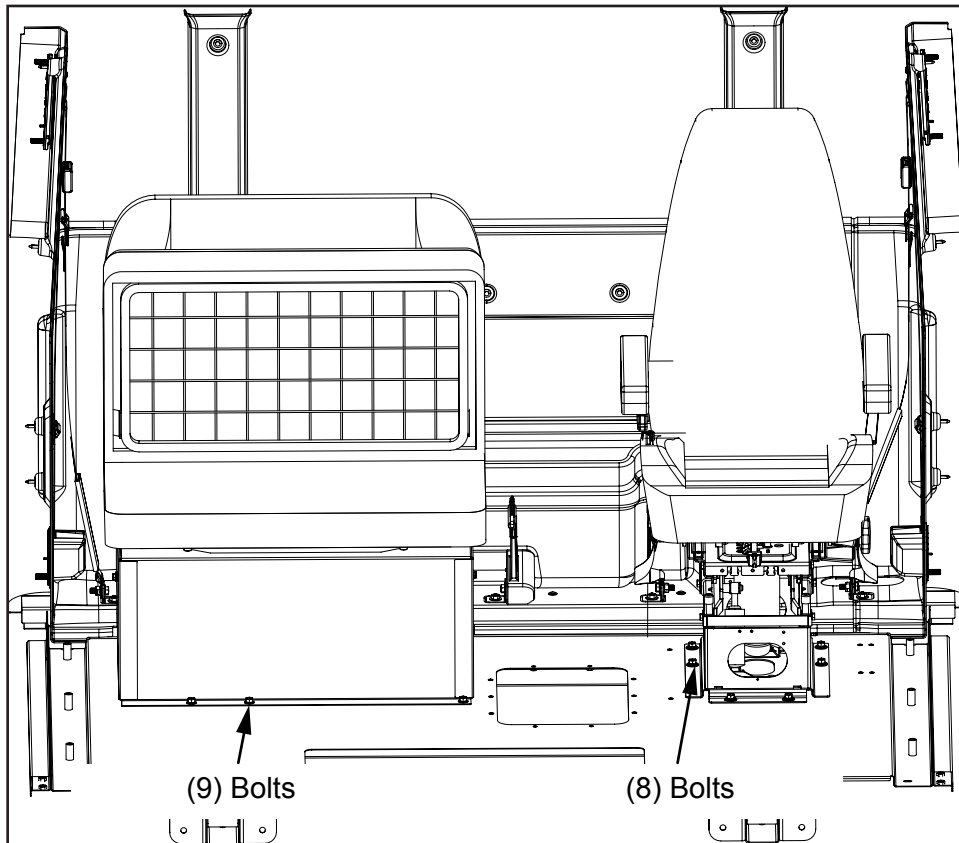


Figure 7

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9. Remove or move the bench forward to gain access to the seat belt (see *Figure 8*).

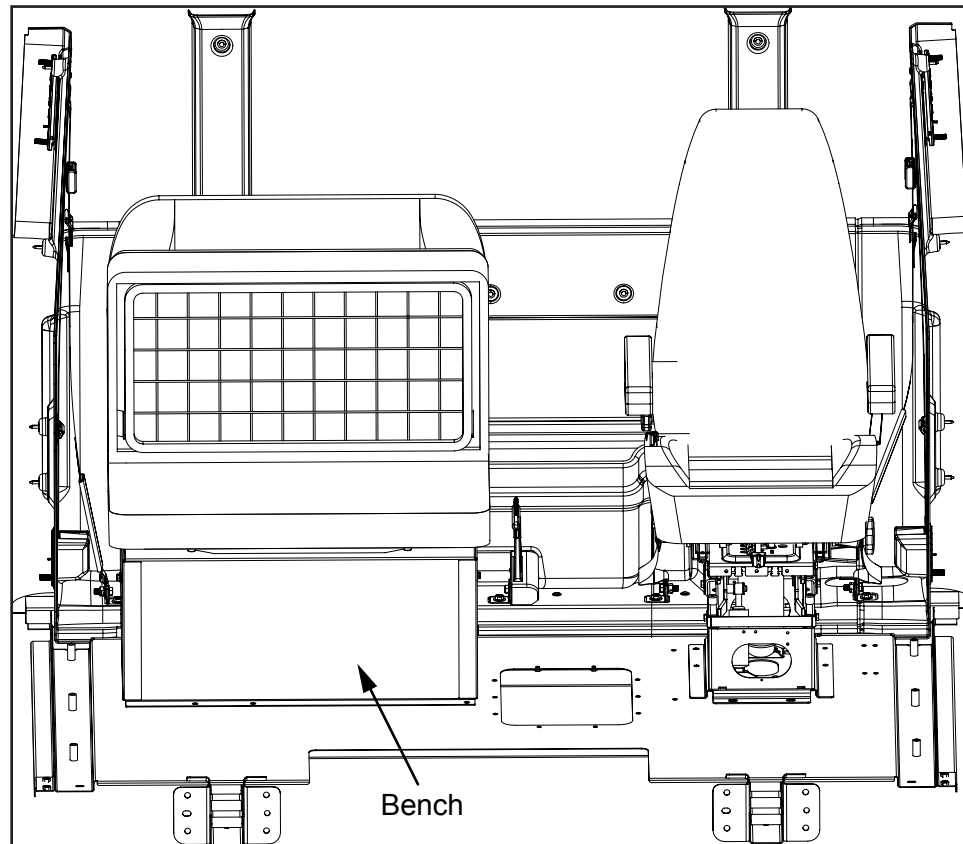


Figure 8

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10. Remove (6) 7/16" bolts with washers and discard. Remove (5) 7/16" bolts with washers and discard (see Figure 9).

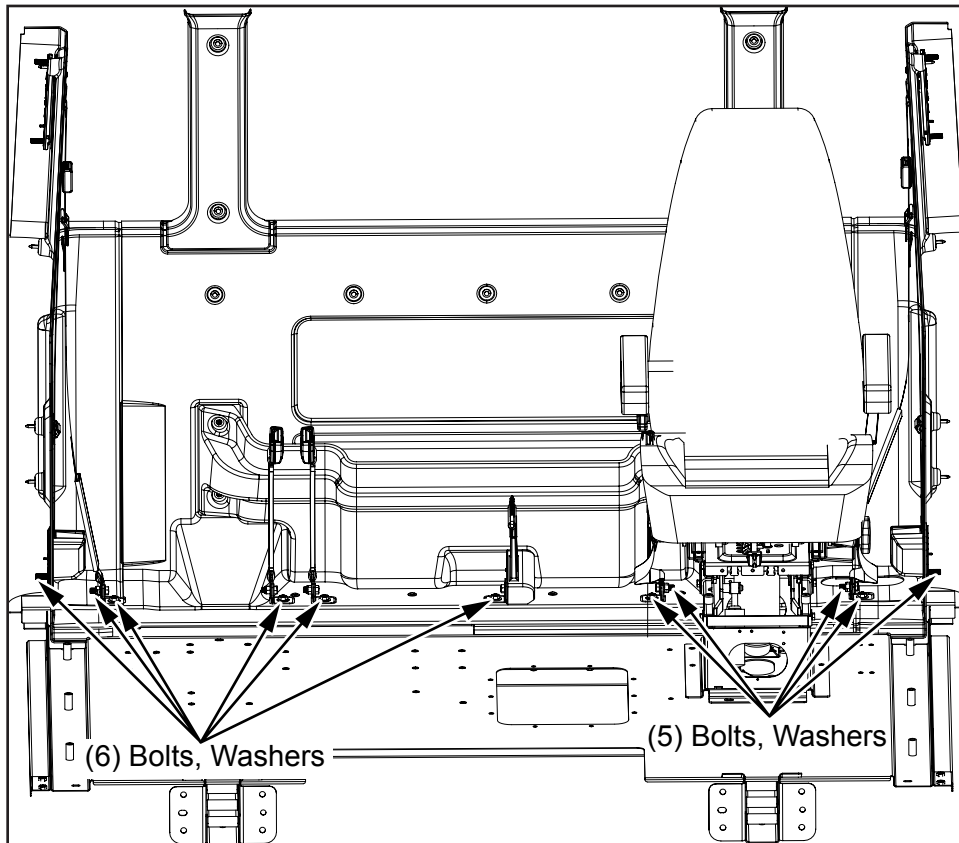


Figure 9

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11. Remove (2) 7/16" bolts and washers and discard. Repeat step 11 for the opposite side of air seat (see *Figure 10*).

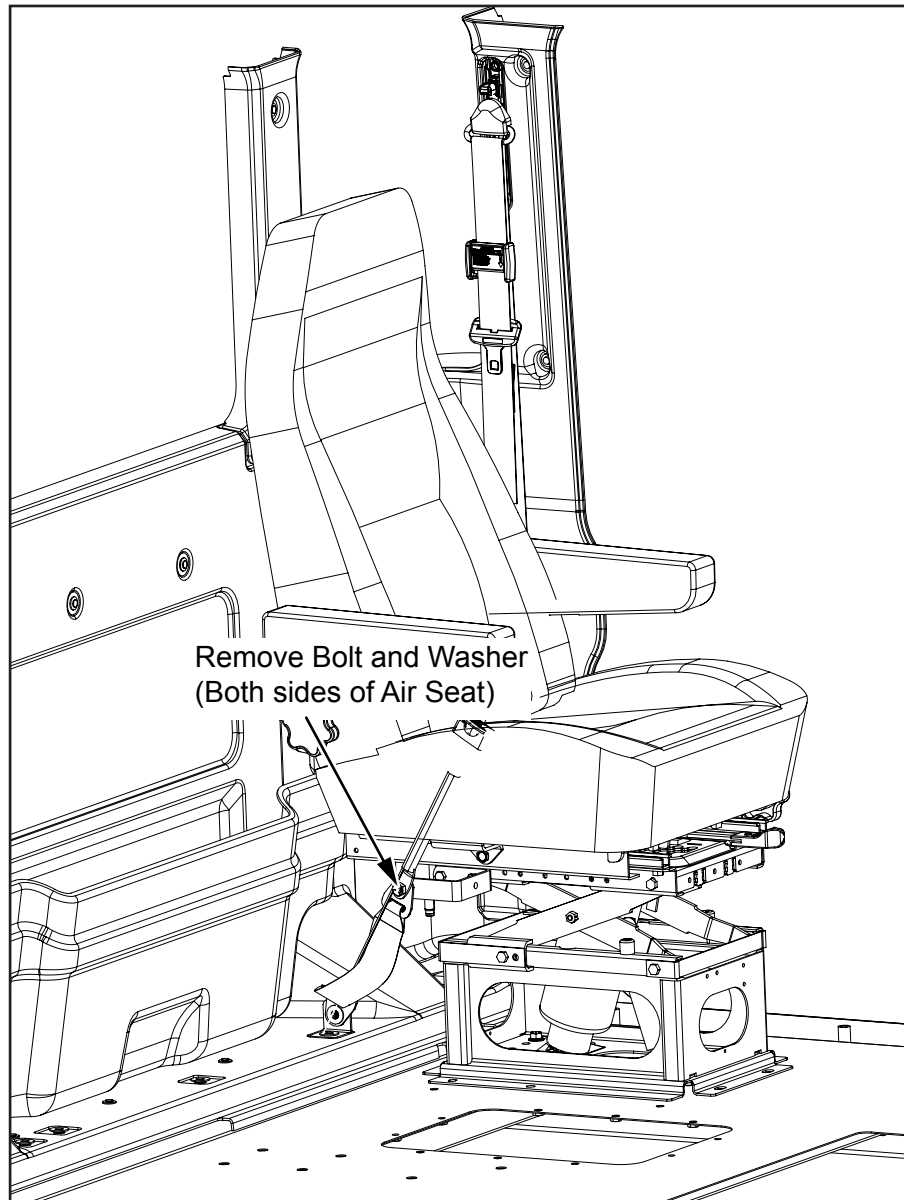


Figure 10

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12. Remove the clevis cover. Repeat step 12 for the opposite side (see *Figure 11*).

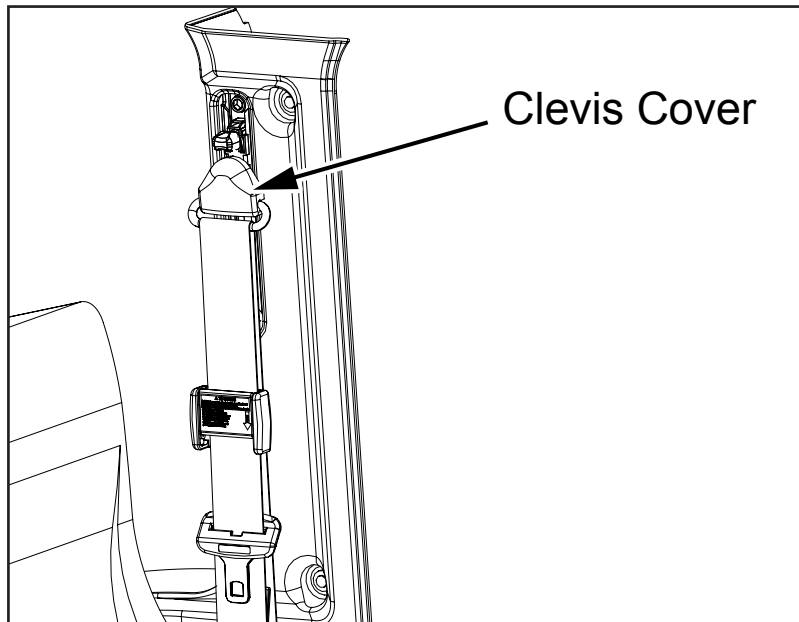


Figure 11

13. Remove (1) 7/16" nut from the stud on the clevis and discard. Repeat for the opposite side (see *Figure 12*).

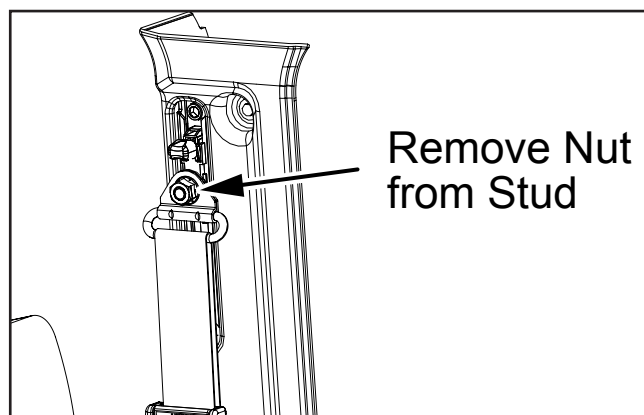


Figure 12

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14. Remove (2) 3/8" bolts and the height adjuster and discard. Repeat step 14 for the opposite side (see *Figure 13*).

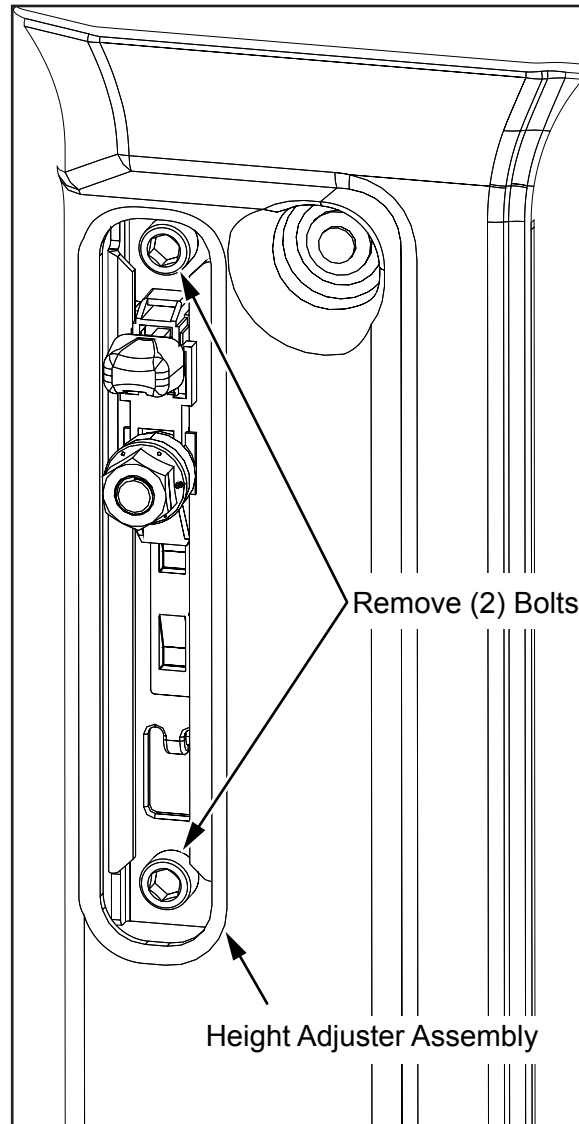


Figure 13

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15. Install the height adjuster assembly (S5220006-001) and tighten fasteners to 43 Lbs-Ft of torque. Repeat step 15 for the opposite side (see *Figure 14*).

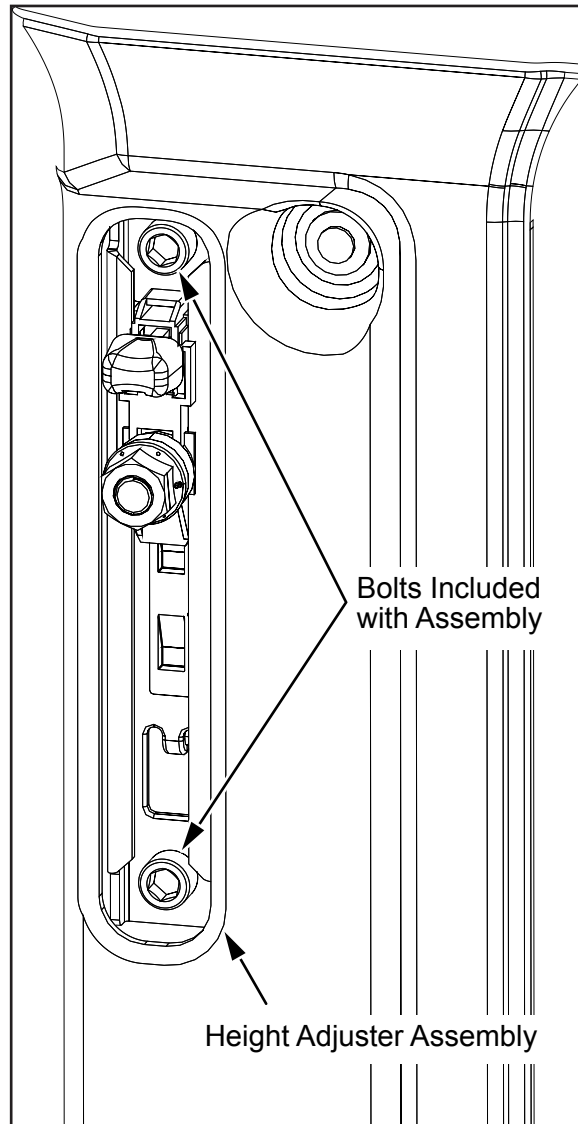


Figure 14

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16. Install the clevis and tighten to 48 Lbs-Ft of torque. Repeat step 16 for the opposite side (see Figure 15).

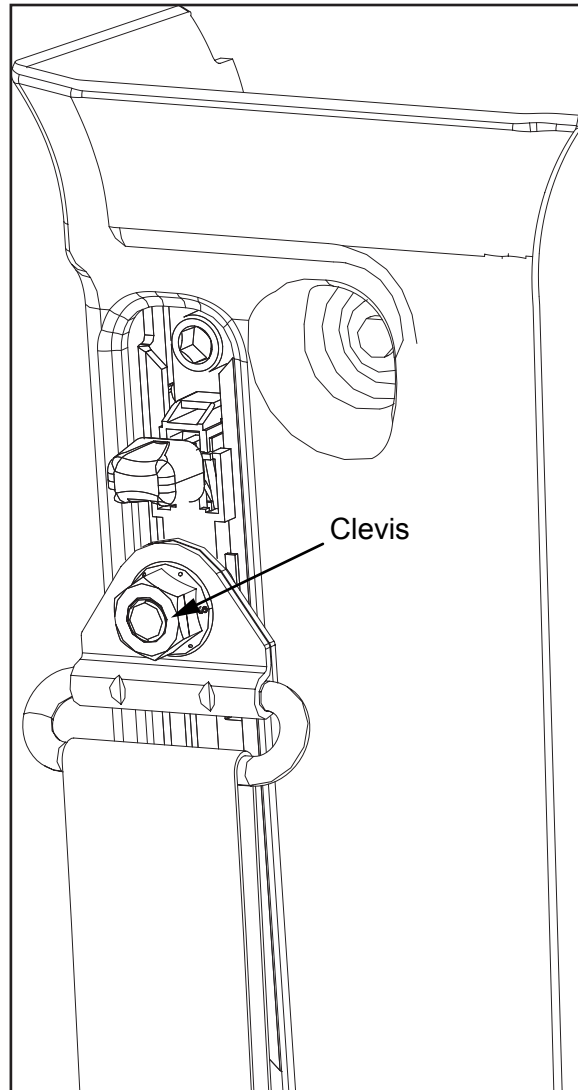


Figure 15

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17. Install the clevis cover. Repeat step 17 for the opposite side (see *Figure 16*).

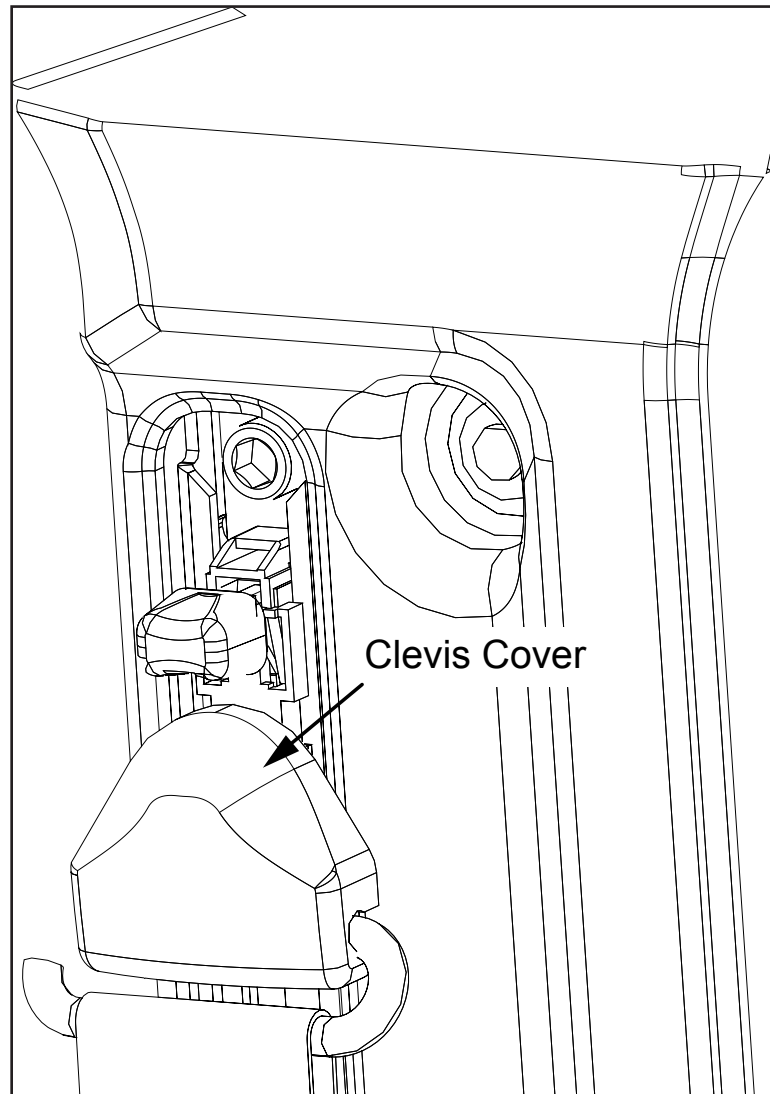


Figure 16

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18. Install (1) bolt (A5221026-001) and (1) locknut (A5221027-001) and tighten to 41 Lbs-Ft of torque (see Figure 17).

Note: Apply blue thread-locking compound to fasteners, obtain locally.

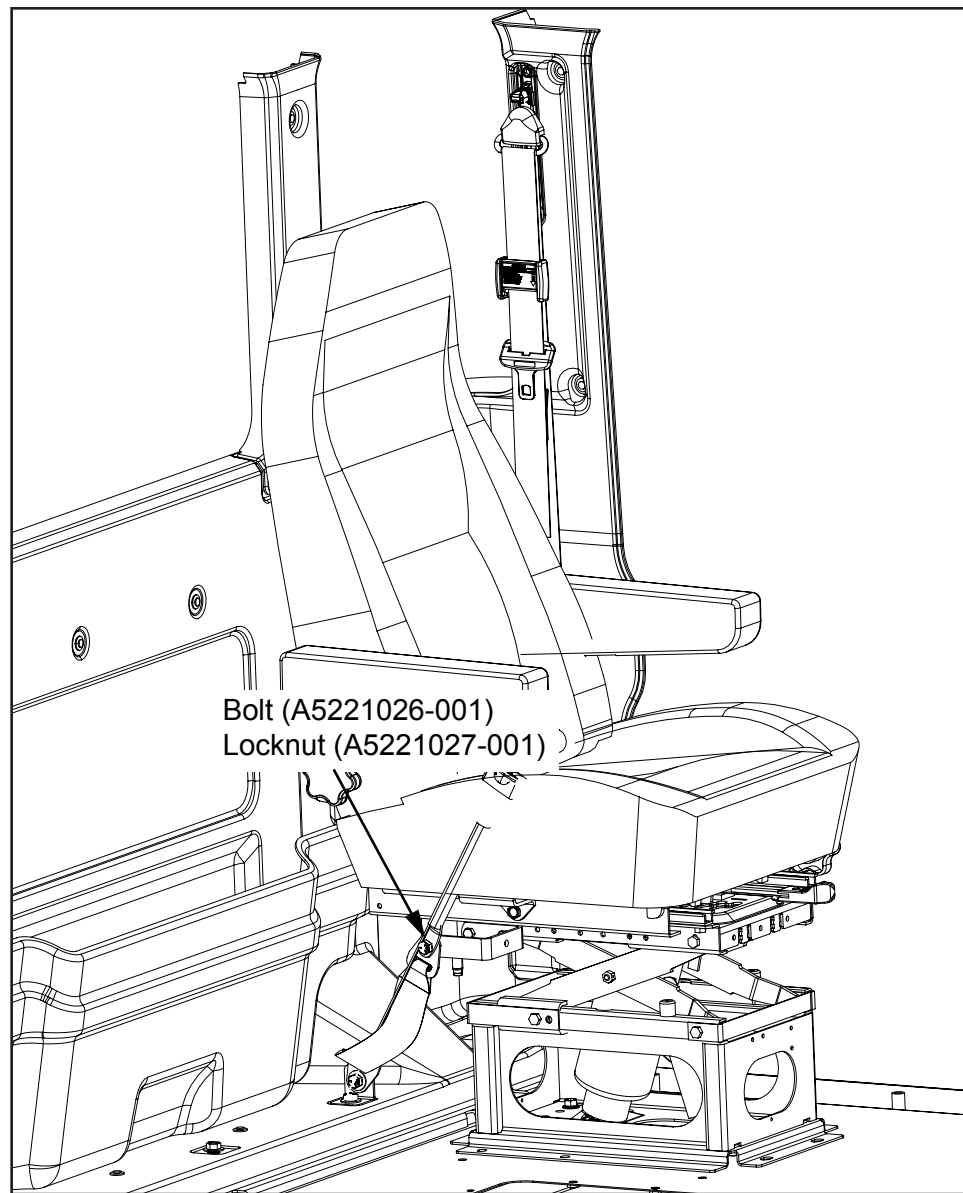


Figure 17

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19. Install (6) bolts (A5221026-001) with washers (A5221030-001) and tighten to 41 Lbs-Ft of torque. Install (5) bolts (A5221026-001) with washers (A5221030-001) and locknuts (A5221027-001) and tighten to 41 Lbs-Ft of torque (see Figure 18).

Note: Apply blue thread-locking compound to fasteners, obtain locally.

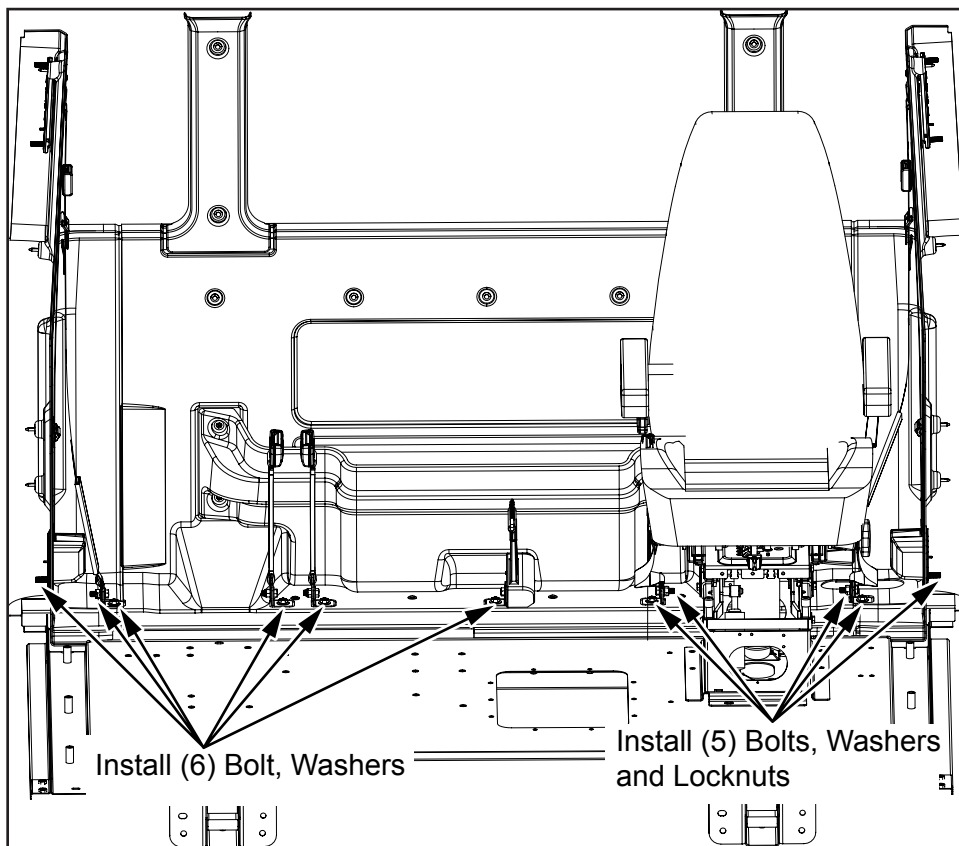


Figure 18

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20. Reposition the bench seat and install (9) bolts (FE410137AW10) and tighten to 23 Lbs-Ft of torque. Install (8) bolts (FE410137AW12) with washers (GE811637WY01) and tighten to 23 Lbs-Ft of torque (see *Figure 19*).

Note: Apply blue thread-locking compound to fasteners, obtain locally.

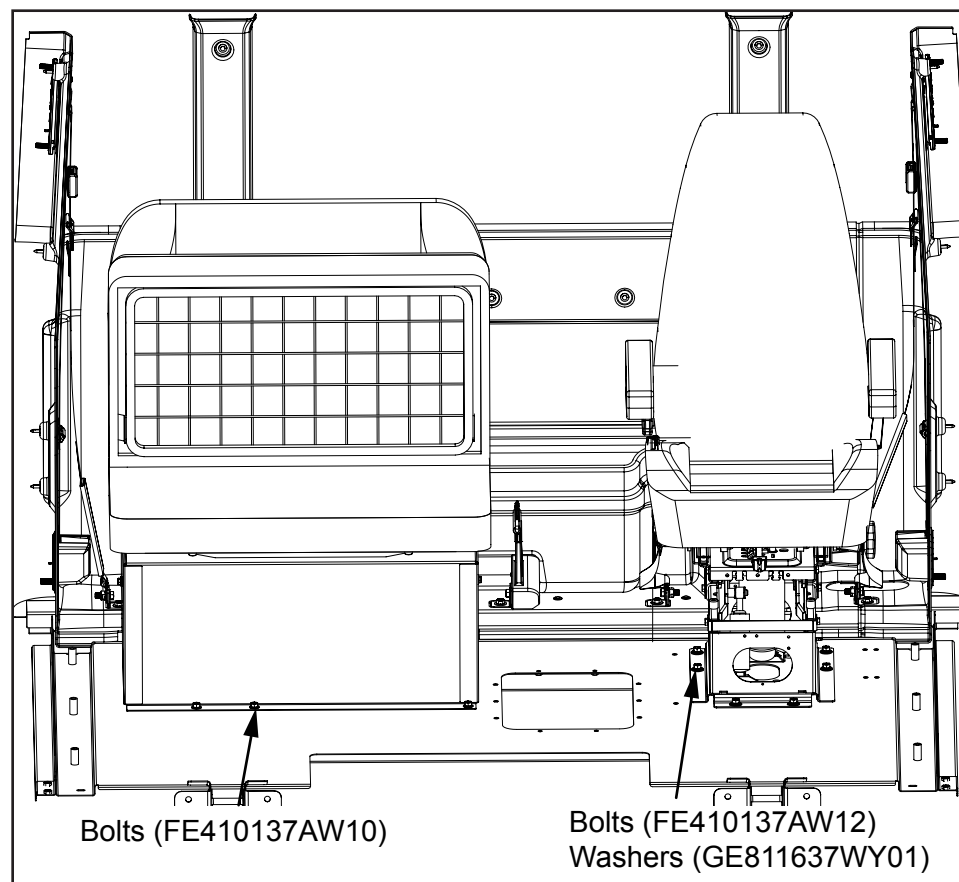


Figure 19

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21. Reinstall the floor mat (see *Figure 20*).

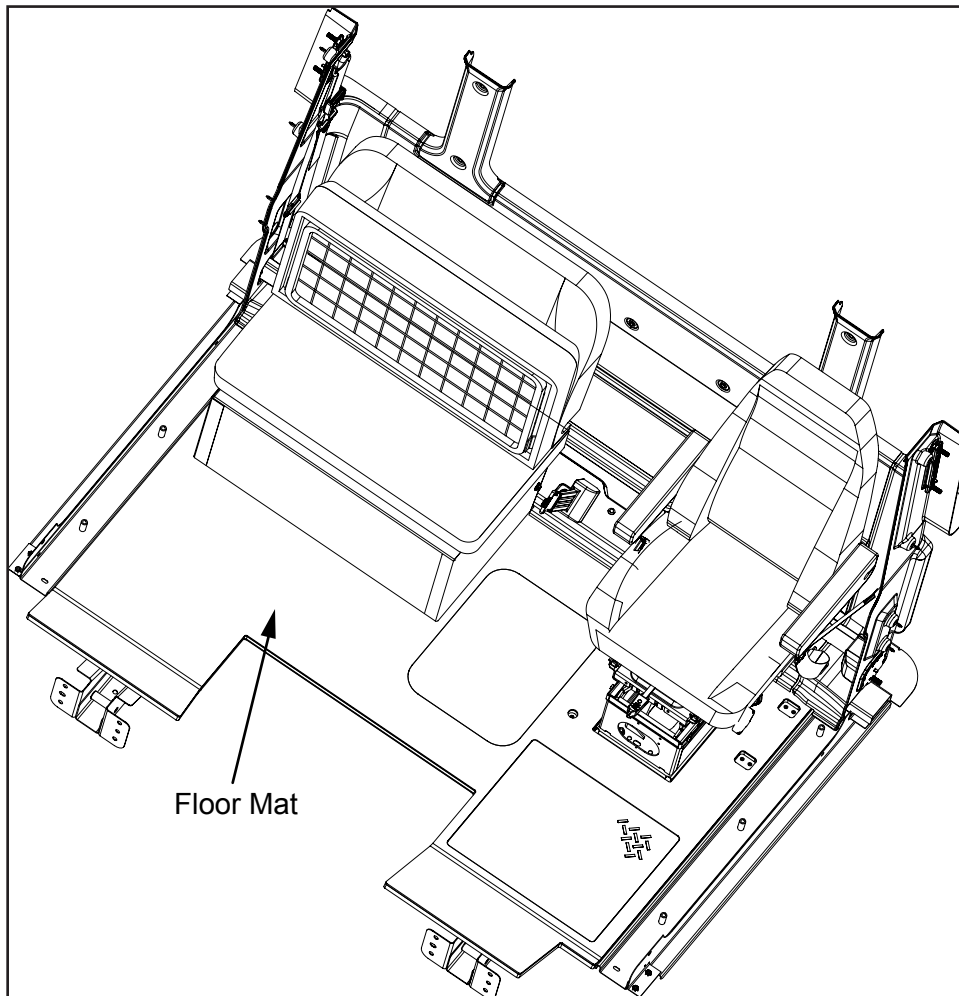


Figure 20

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22. Using (3) screws, reinstall the door sill. Repeat step 22 for the opposite side (see Figure 21).

Note: Apply blue thread-locking compound to fasteners, obtain locally.

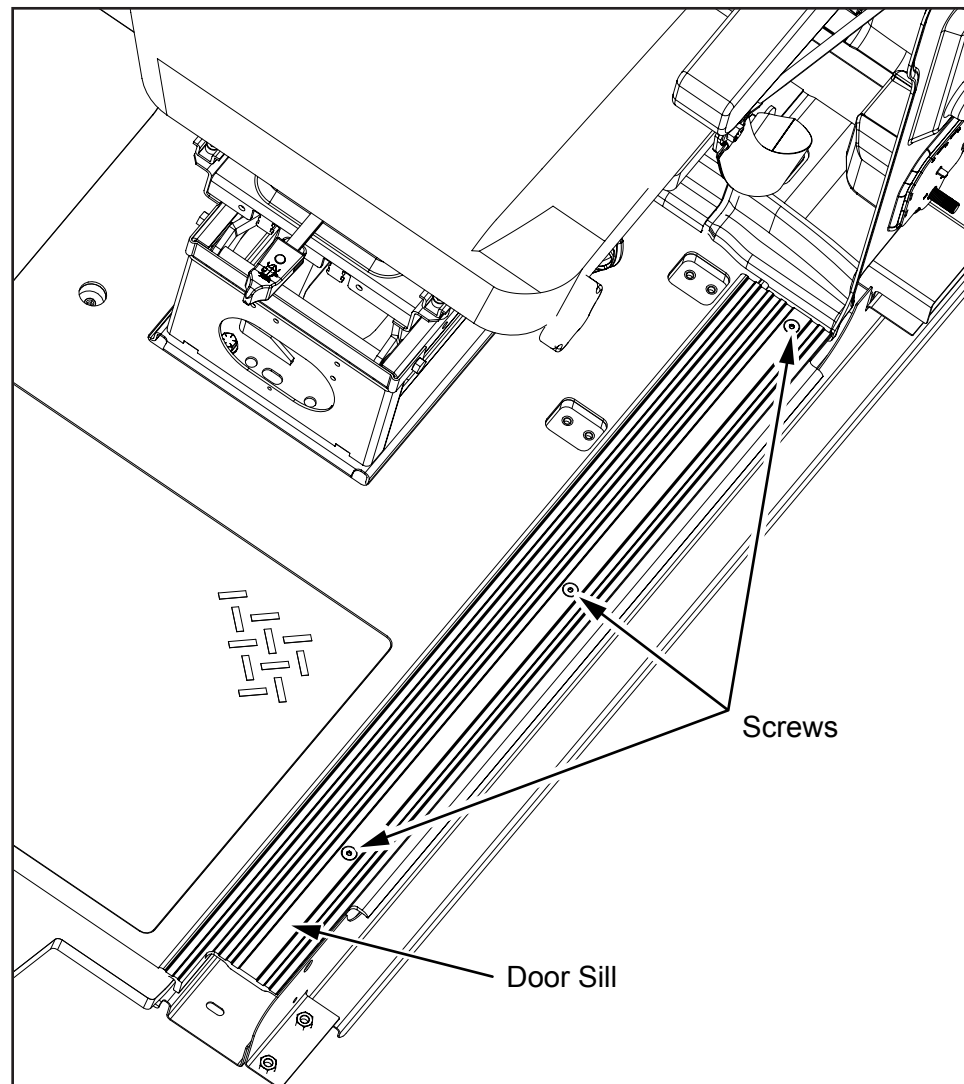


Figure 21

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23. Using (2) #10 Phillips screws, reinstall the flare kit mounting bracket (see Figure 22).

Note: Apply blue thread-locking compound to fasteners, obtain locally.

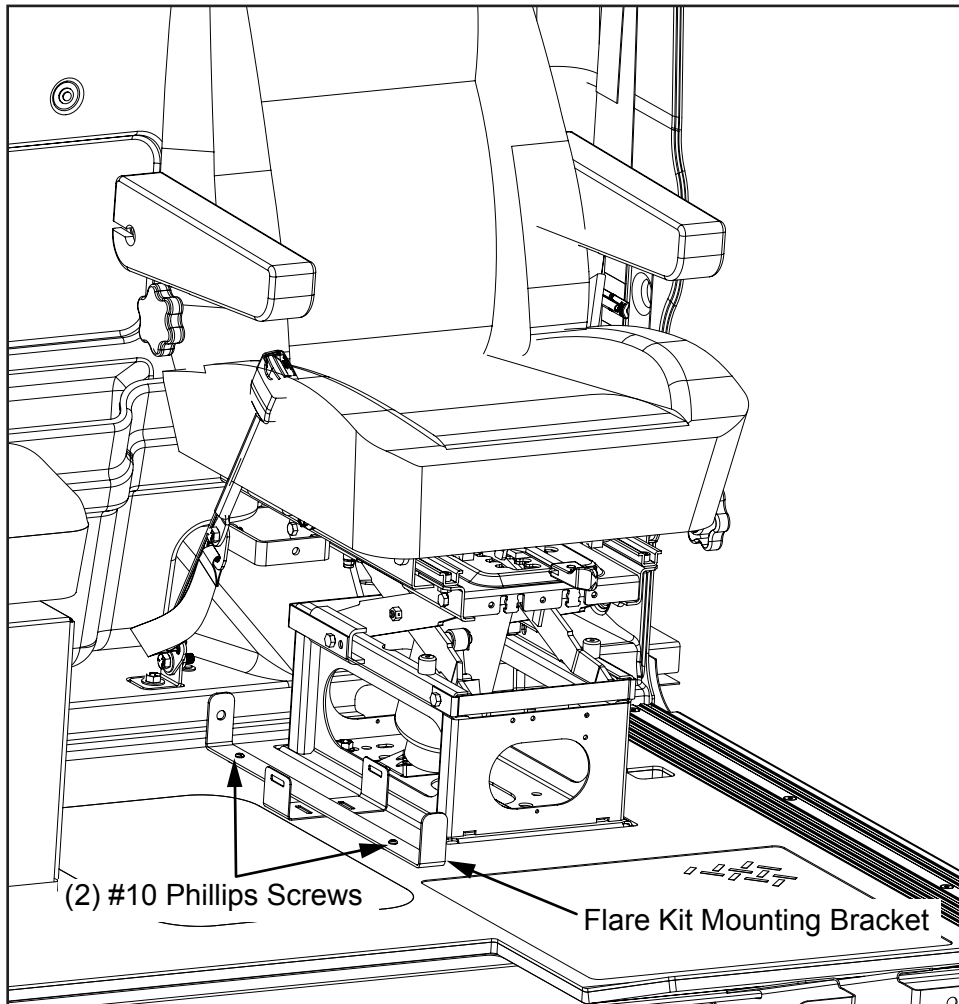


Figure 22

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24. Install the flare kit and lock the strap (see *Figure 23*).

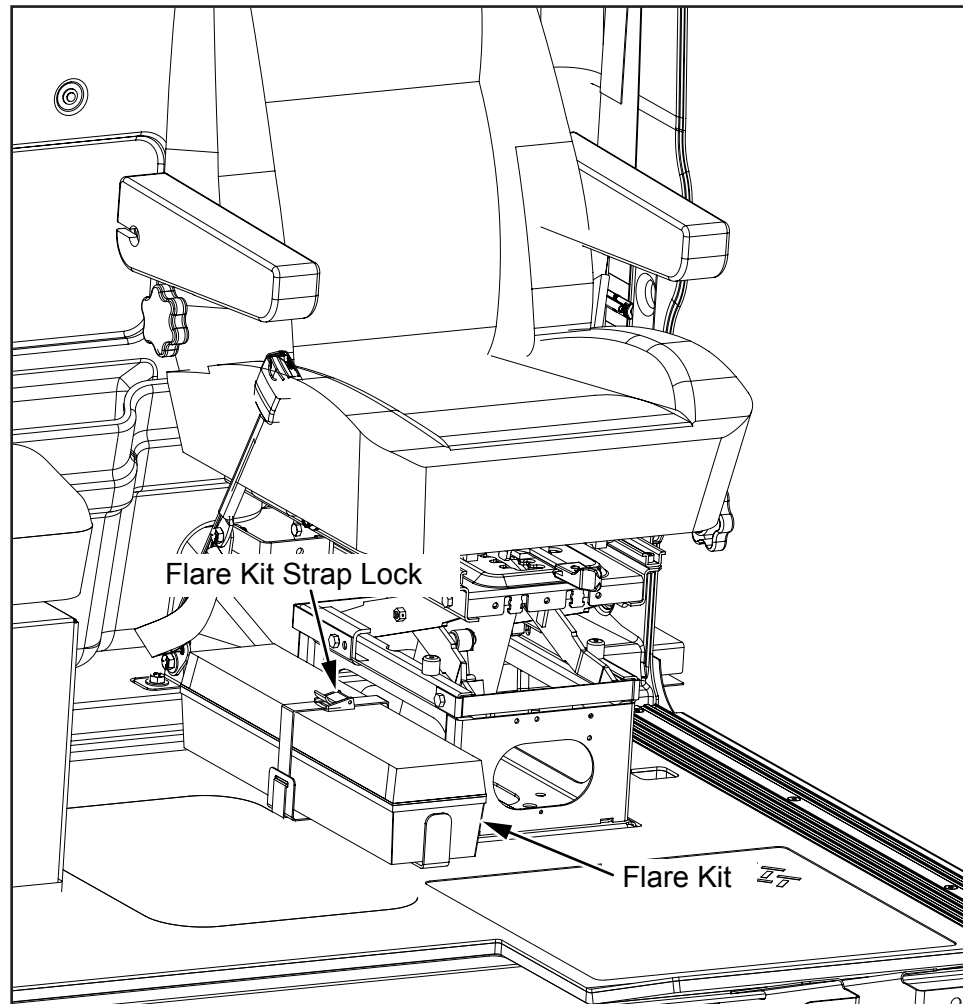


Figure 23

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25. Using (4) 1/4 screws, reinstall the fire extinguisher bracket and tighten to 6.3 Lbs-Ft of torque (see Figure 24).

Note: Apply blue thread-locking compound to fasteners, obtain locally.

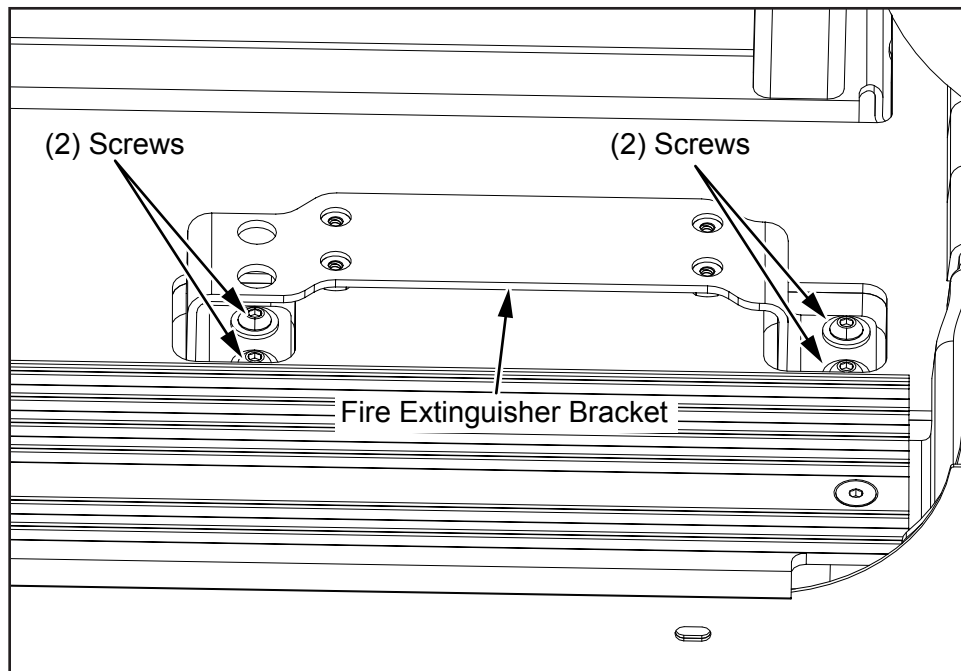


Figure 24

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26. Using (4) screws, reinstall the fire extinguisher and tighten to 18 Lbs-In of torque (see Figure 25).

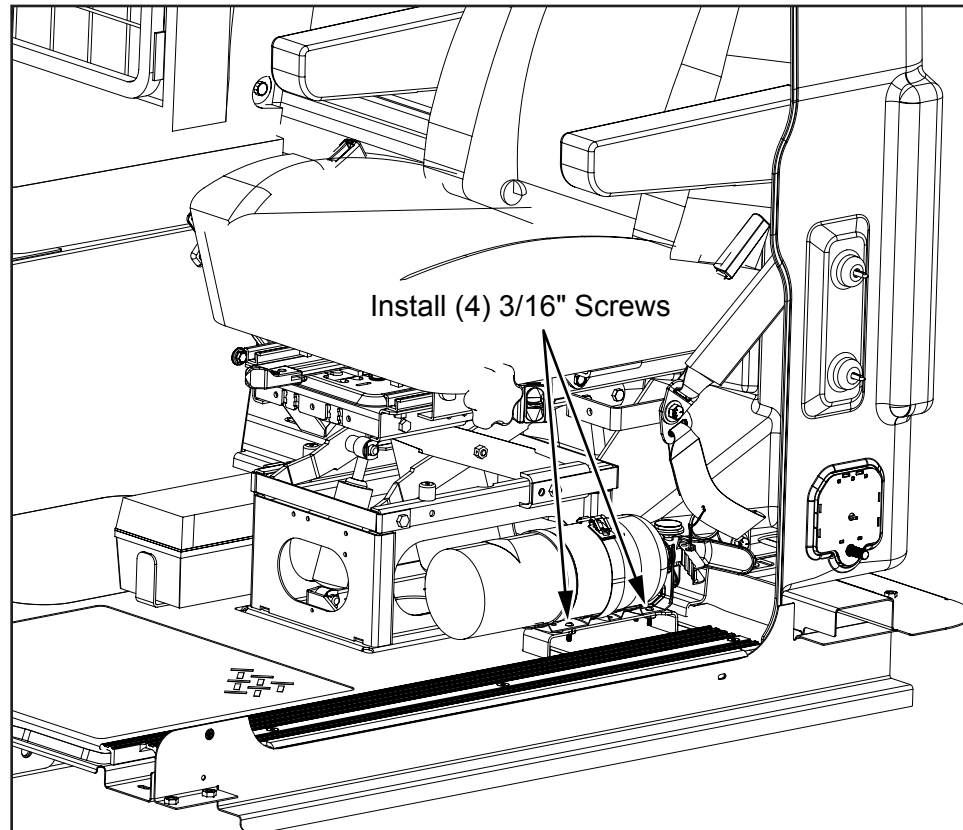


Figure 25

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27. Install (1) bolt (A5221026-001), washer (A5221030-001) and locknut (A5221027-001) and tighten to 41 Lbs-Ft of torque (see Figure 26).

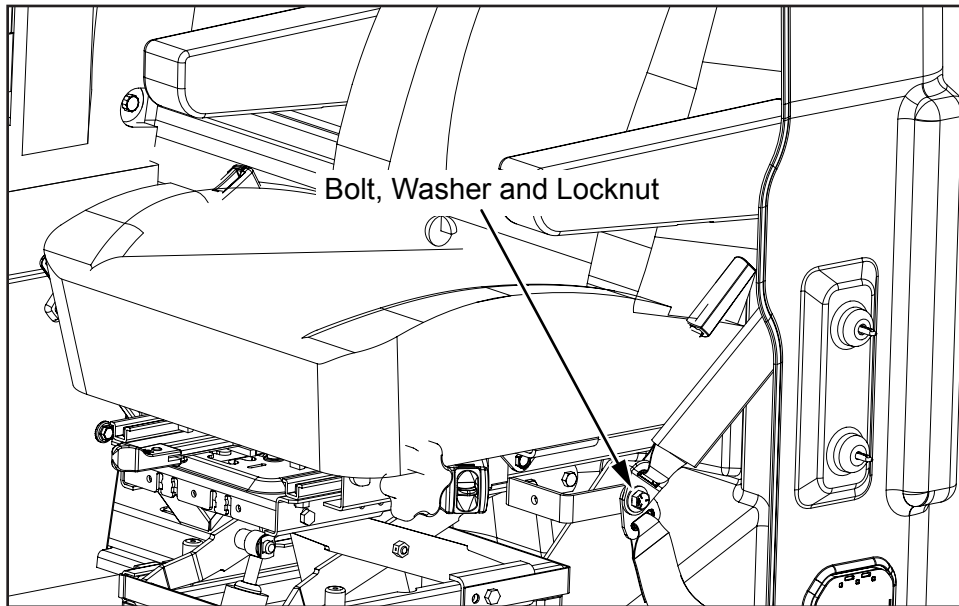


Figure 26

28. Turn on the battery disconnect switch or re-connect the battery cables beginning with the positive connections followed by the negative connections.
29. Installation is complete.

Note: If you have questions or concerns regarding this Assembly Instruction, please contact Autocar Technical Support at 888-218-3611