

SAFETY RECALL

Mack Trucks Inc.
Greensboro, NC USA



Date	Number	Release	Page
05.2015	SC0390	01	1 (24)

Fifth Wheel Air Release Switch, Installation CHU, CXU

SAFETY RECALL INFORMATION:

(MAY 2015)

On certain 2010–2015 MACK CHU and CXU trucks manufactured with an air release fifth wheel latch, the dash mounted switch may not work as designed. As a result, the driver may inadvertently release the fifth wheel latch if he/she depresses or bump the fifth wheel air release switch **while** the parking brake is applied. This condition could cause the trailer to decouple from the truck while the parking brake is applied and increase the risk of injury and/or damage to property.

Note: The fifth wheel air release latch includes a lockout feature, which prevents uncoupling while the park brake is released. When the fifth wheel air release switch is pressed or bumped while the truck is stopped and parking brake is applied, the trailer can unlatch and require recoupling. Recoupling includes, setting the landing gear, pulling the truck forward, and backing up to mechanically engage the fifth wheel latch. If this is not done, the trailer can become uncoupled when pulling the trailer forward.

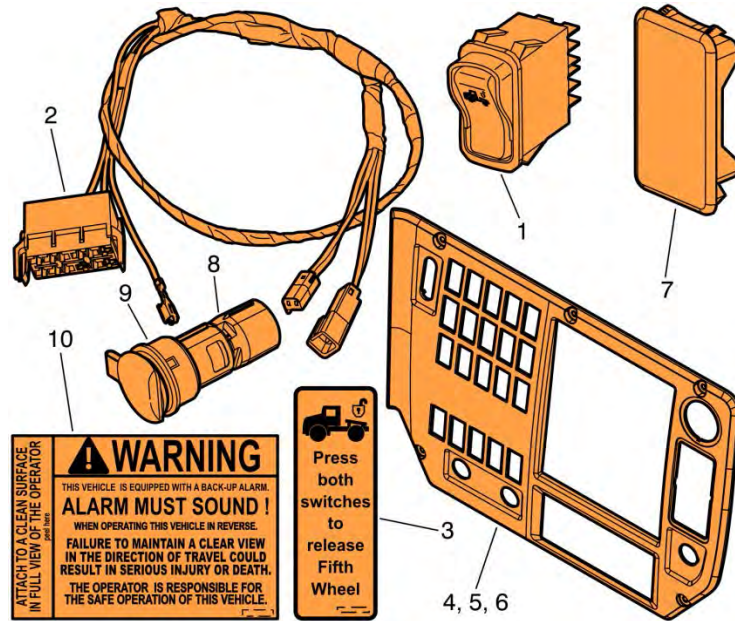
Mack Trucks has received no reports of personal injury as a result of this condition. Therefore, Mack considers this as a proactive measure to protect the public and Mack's customers from the potential risk associated with this defect.

VEHICLES AFFECTED:

Certain MACK CXU and CHU trucks manufactured from JULY 12, 2010 through February 15, 2015.

VEHICLE IDENTIFICATION NUMBERS (VIN):

The number of vehicles affected by this recall is 377 (306 USA, and 71 Canada).



REQUIRED PARTS:

To order parts call (877) 986-5862. The Vehicle Identification Number (VIN) is required for ordering parts.

Fifth Wheel Switch, Air Release Parts			
Item	Part Number	Description	Qty
1	21957421	Switch, Fifth Wheel Air Release	◆
2	22673601	Harness, Jumper	1
3	84700586	Label, Kingpin Lock	2

◆ The required quantity of fifth wheel air release switches (1 or 2) are determined by the customer's truck switch type, See note on page 4.

OPTIONAL PARTS: (Required for Switch Panel Replacement Only)

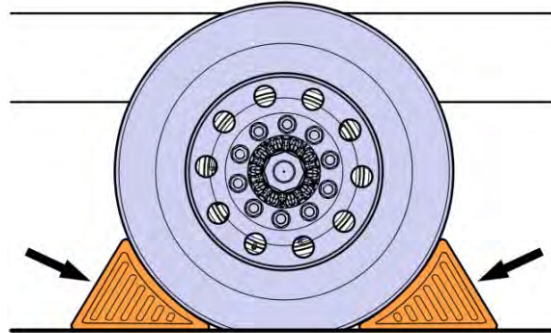
Fifth Wheel Switch, Air Release Switch Panel Parts			
Item	Part Number	Description	Qty
4*	25137036	Switch Panel, Wood Grain	1
5*	25137051	Switch Panel, Brushed Metal	1
6*	25137082	Switch Panel, Painted	1
7	25159354	Blank, Switch	■
8	25192096	Outlet, 12V Power	1
9	25190213	Mounting Ring & Cap, 12V	1
10	25173321	Decal, Back-Up Alarm	1

■ The required quantity of switch blanks to order is determined by the customer's truck switch panel configuration.

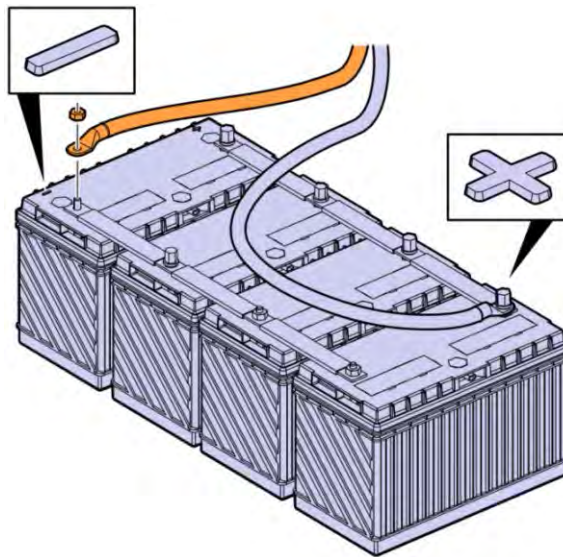
* Not all vehicles require a switch panel please refer to page 4 to determine if one is needed for the vehicle being repaired. If required, order quantity of 1 with the same switch panel finish as the panel currently installed.

DECOMMISSIONING THE TRUCK FOR INSPECTION OR REPAIR:

1. Secure the vehicle for service by parking on a flat and level surface, applying the parking brake, chocking the rear wheel, and placing the transmission in neutral.



2. Disconnect the cable from the battery's negative (ground) terminal.



FIFTH WHEEL AIR RELEASE SWITCH INSPECTION:

NOTE

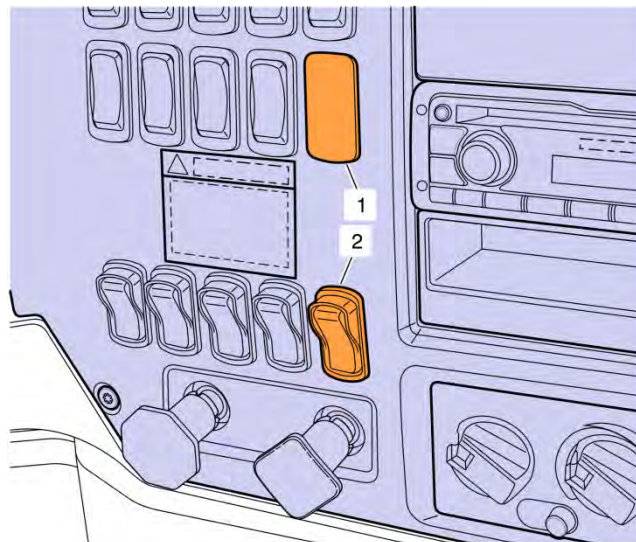
The Illustrations shown in this document are used for reference only and may differ slightly from the actual vehicle being serviced. However, the replacement procedure represented as accurately as possible.

1. Verify the type of fifth wheel air release switch currently used in the switch panel.

NOTE
If the current fifth wheel air release switch is a momentary switch, proceed to step 2.

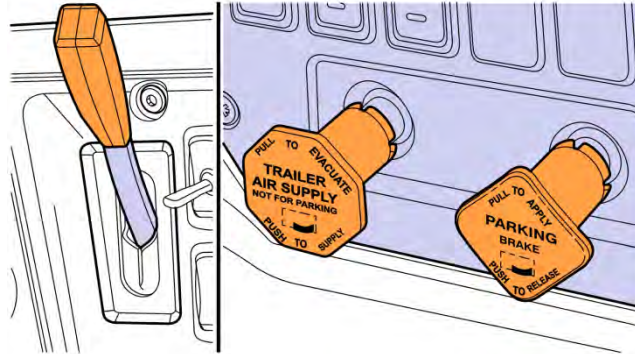
NOTE
If the current fifth wheel air release switch is an ON/OFF switch (part number 82457904), the existing switch will be replaced with switch (part number 21957421).

2. Determine if there is a blank slot in the switch panel located in position (1) to accommodate installation of the additional fifth wheel air release switch.
 - a. If there is no switch slot available above the original fifth wheel air release switch in position (2), proceed to page 16, (**Switch Panel Installation Procedures**).
 - b. If there is a switch slot available above the original switch position (2), proceed to page 5, (**Fifth Wheel Air Release Switch Installation Procedure**).



FIFTH WHEEL AIR RELEASE SWITCH INSTALLATION PROCEDURE:

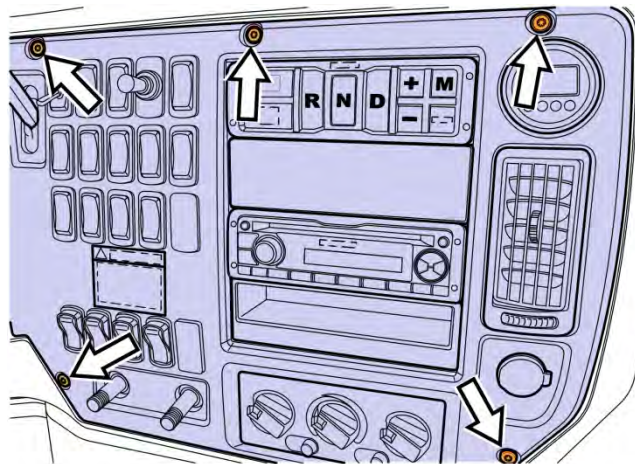
1. Remove the air brake knobs from the switch panel.



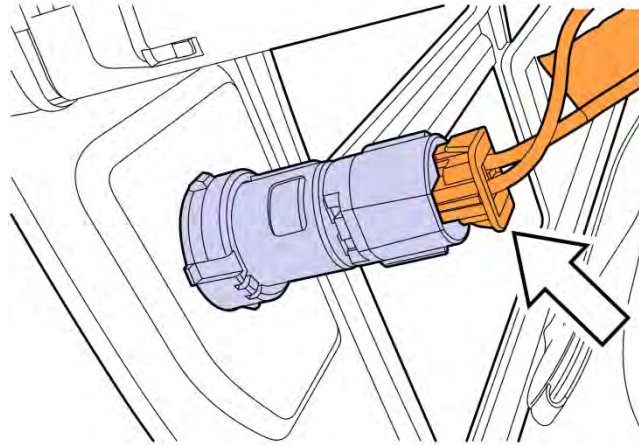
2. Remove the fasteners securing the switch panel.

NOTE

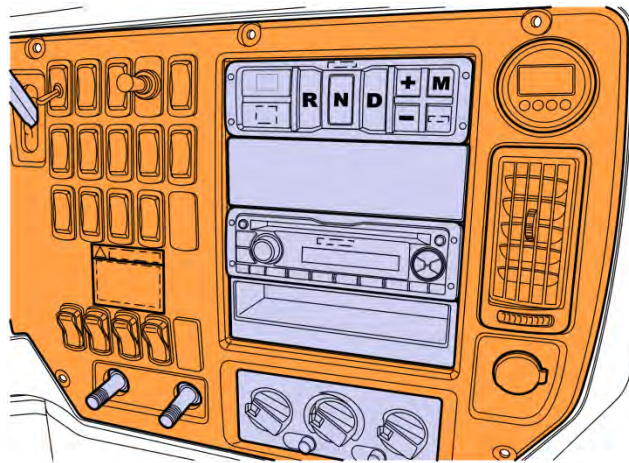
Store the switch panel fasteners for reuse.



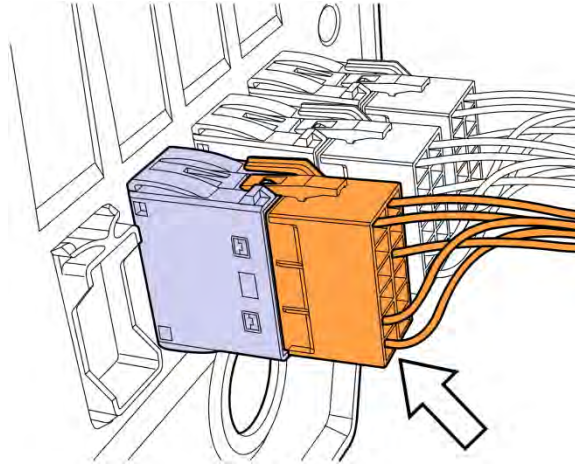
3. Carefully, begin to remove the switch panel and disconnect the plug from the auxiliary 12V power outlet.



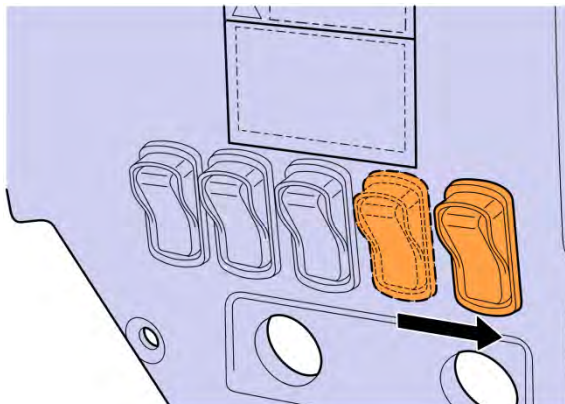
4. Rotate the switch panel to a comfortable work position.



5. Disconnect the (original) fifth wheel air release switch connector.

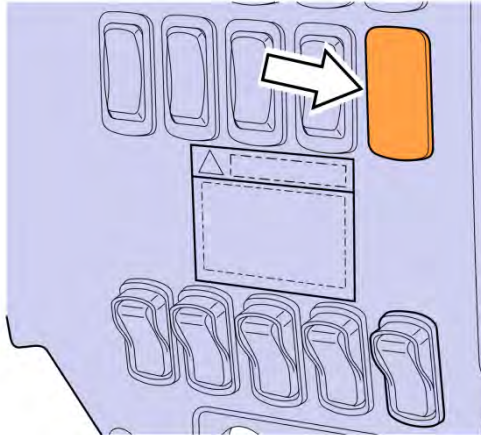


6. If applicable, remove the (original) fifth wheel air release switch from the switch panel, and reposition it to the location shown in the image below.



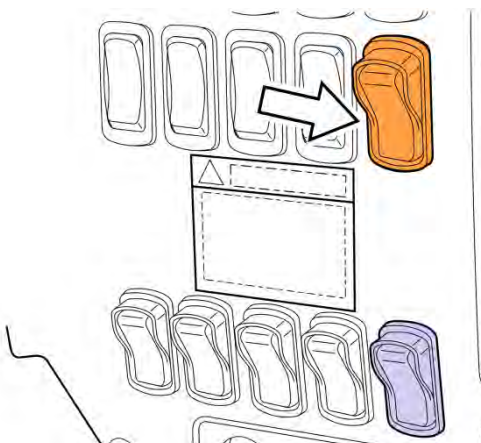
7. If applicable, remove the blank from the slot above the repositioned (original) fifth wheel air release switch.

NOTE
If the slot above the existing fifth wheel air release switch is populated with another switch, move the switch to another blank location in the switch panel.

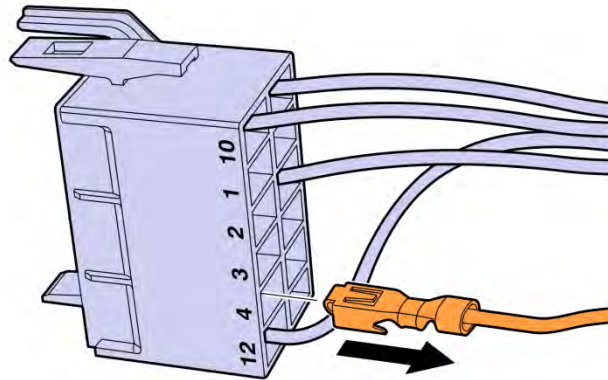


8. Install the (additional) fifth wheel air release switch in the slot above the (original) switch as shown in the figure below.

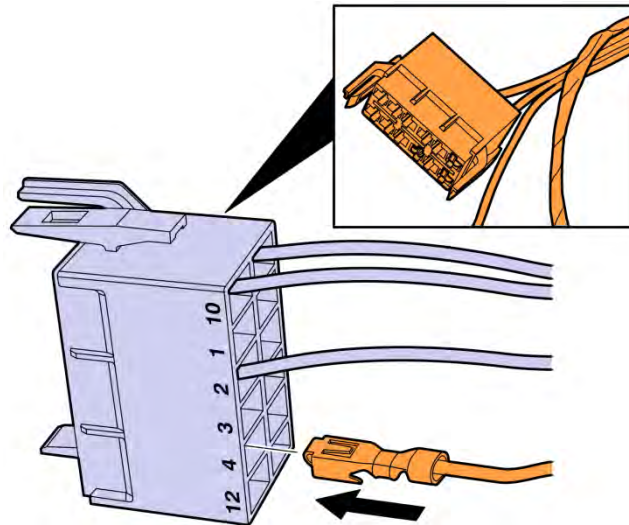
NOTE
The additional fifth wheel air release switch must be positioned above the existing fifth wheel air release switch. Depending on the switch panel switch layout, the fifth wheel air release switches may be separated by one row of switches only.



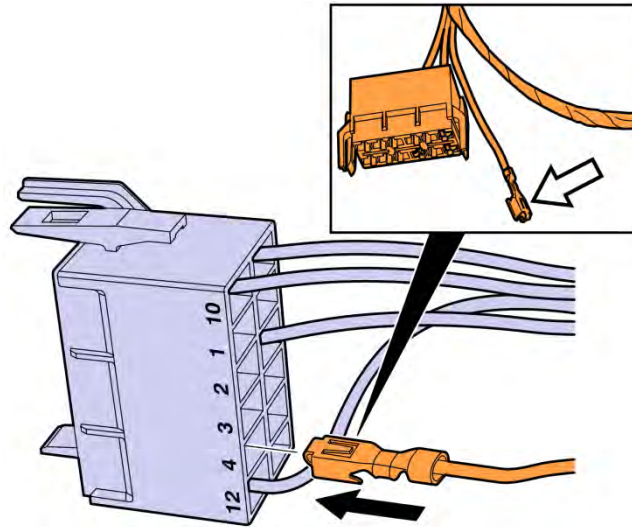
9. Using a terminal extraction tool, remove the wire from cavity (4) of the (original) fifth wheel air release switch connector housing.



10. Insert the removed wire into jumper harness (part number 22673601) connector housing cavity (4).

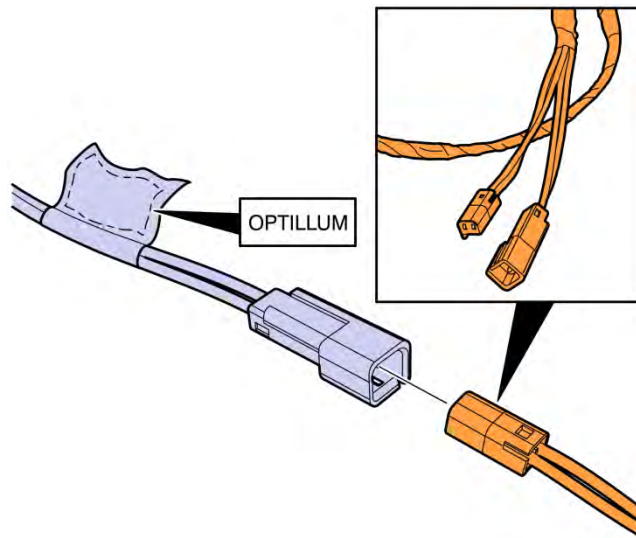


11. Insert the wire from the jumper harness into cavity (4) of the (original) fifth wheel air release switch connector housing.



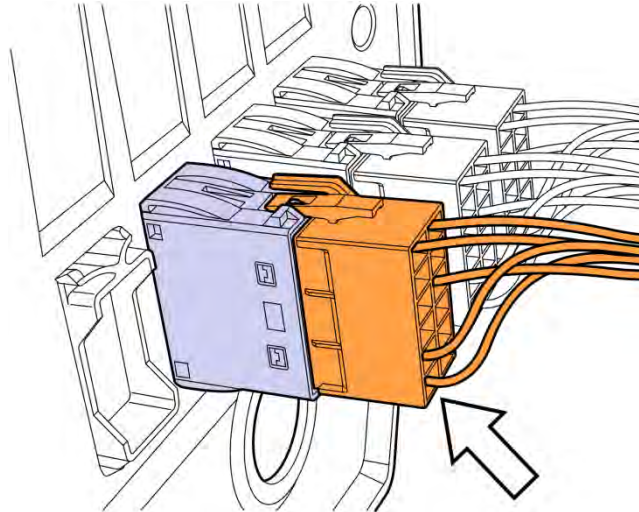
12. Inside of the dash, locate a wire labeled "OPTILLUM" with an orange colored tag.
13. Connect the jumper harness as shown in the figure below.

NOTE
If this connector is already populated use both connectors on the jumper harness.

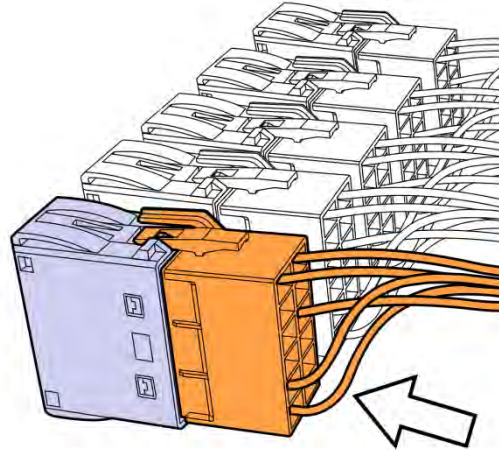


14. Route the jumper harness and secure with cable ties.

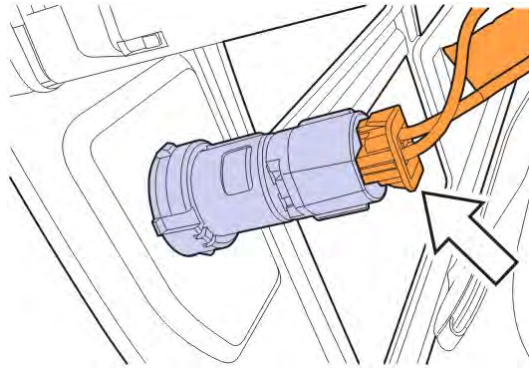
15. Re-connect the original connector to the (original) fifth wheel air release switch.



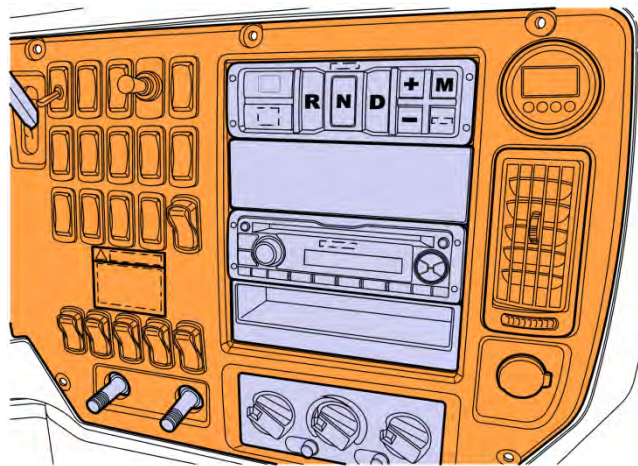
16. Connect the jumper harness to the (additional) fifth wheel air release switch.



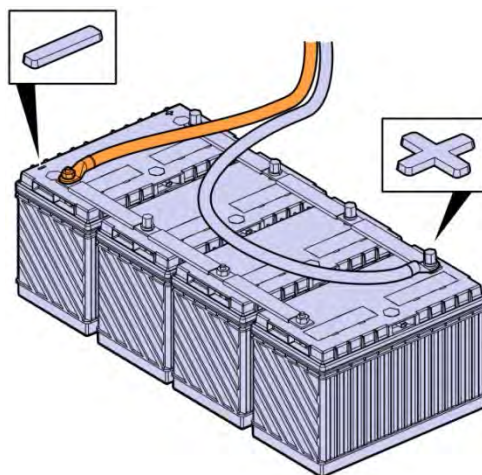
17. Connect the plug for the auxiliary 12V power outlet.



18. Loosely position the switch panel with the switch faces visible.



19. Connect the battery cable to the negative (ground) terminal.



20. Turn the ignition switch to the “**ON**” position, turn on the headlights, and ensure the backlighting is operational on additional fifth wheel air release switch.

21. Follow the steps in the table below to ensure the fifth wheel air release switches are operational.

NOTE: Temporarily reinstall the (yellow) tractor air brake knob for testing.

Fifth Wheel Air Release Switch Operational Checks	
Step	Operational Checks
1	Test Conditions: (a) Parking brake is released (b) Switch 1 is depressed (Does not unlock) (c) Switch 2 is depressed (Does not unlock) (d) Switch 1 + Switch 2 is depressed (Does not unlock)
2	Test Conditions: (a) Parking brake is set (b) Switch 1 is depressed (Does not unlock) (c) Switch 2 is depressed (Does not unlock) (d) Switch 1 + Switch 2 is depressed (Unlock)

NOTE: The fifth wheel should **NOT** unlock unless:

- a) Both switches are depressed simultaneously
- b) Parking brake is set

22. Turn the ignition switch to the “**OFF**” position.

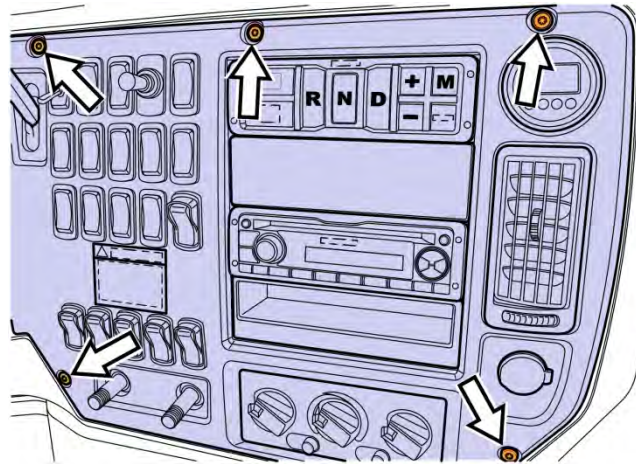
23. If applicable, install switch blanks in any open switch panel slots.

24. Position the switch panel for installation.

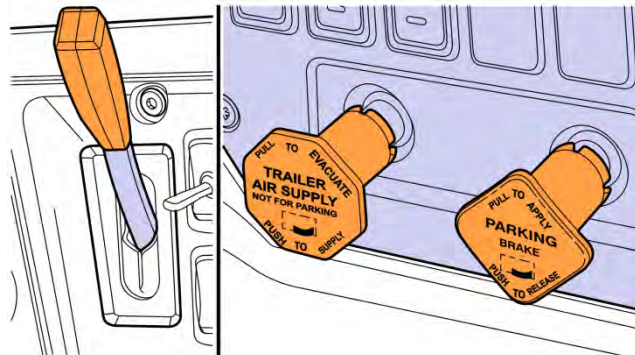
25. Using the stored fasteners, secure the switch panel.

NOTE

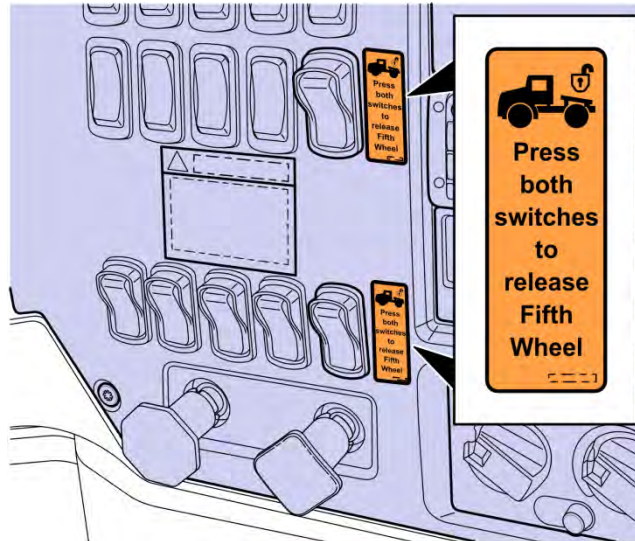
Use hand tools to tighten the switch panel fasteners. Do not over tighten the fasteners.



26. Install the air brake knobs.



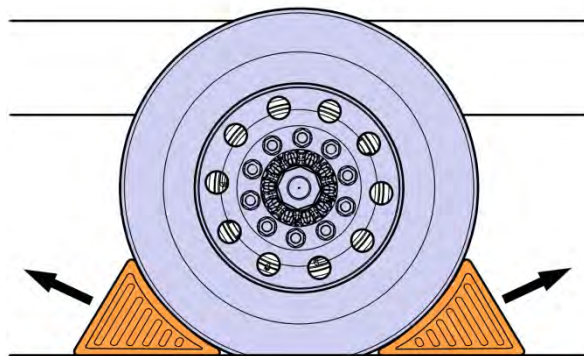
27. Add the “**Kingpin Lock**” decal to two locations on the switch panel as shown in the figure below.



28. Print the last page (page 24) “**FIFTH WHEEL AIR RELEASE SWITCH INSTRUCTION**” and add it to the operator’s manual.

COMMISSIONING THE TRUCK FOR OPERATION:

29. Remove the wheel chocks.



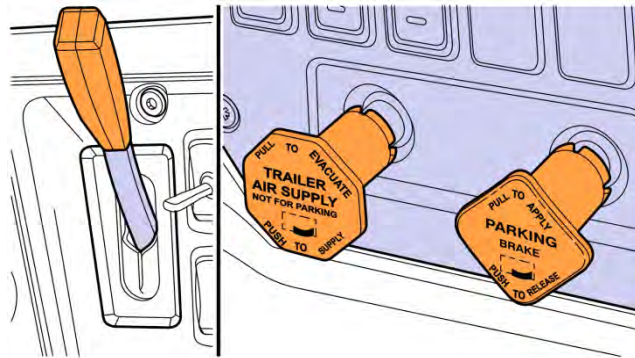
SWITCH PANEL INSTALLATION PROCEDURES:

Fifth Wheel Switch, Air Release Switch Panel Parts			
Item	Part Number	Description	Qty
4*	25137036	Switch Panel, Wood Grain	1
5*	25137051	Switch Panel, Brushed Metal	1
6*	25137082	Switch Panel, Painted	1
7	25159354	Blank, Switch	■
8	25192096	Outlet, 12V Power	1
9	25190213	Mounting Ring & Cap, 12V	1
10	25173321	Decal, Back-Up Alarm	1

■ The required quantity of switch blanks to order is determined by the customer's truck switch panel configuration.

* If required, order quantity of 1 with the same switch panel finish as the panel currently installed.

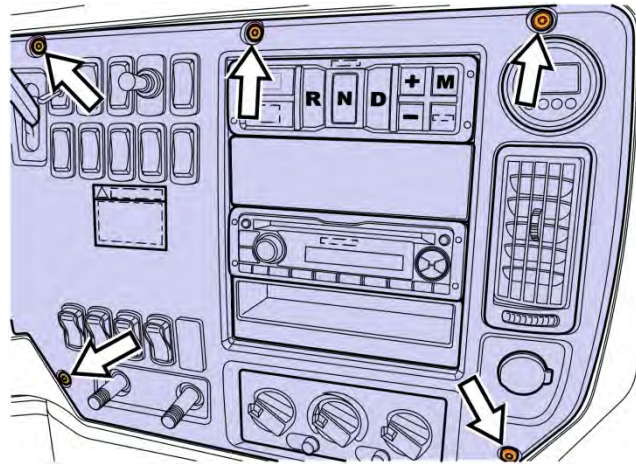
1. Remove the air brake knobs from the switch panel.



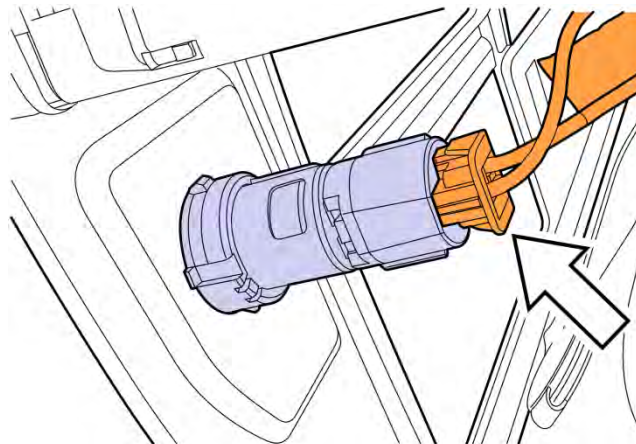
2. Remove the fasteners securing the switch panel.

NOTE

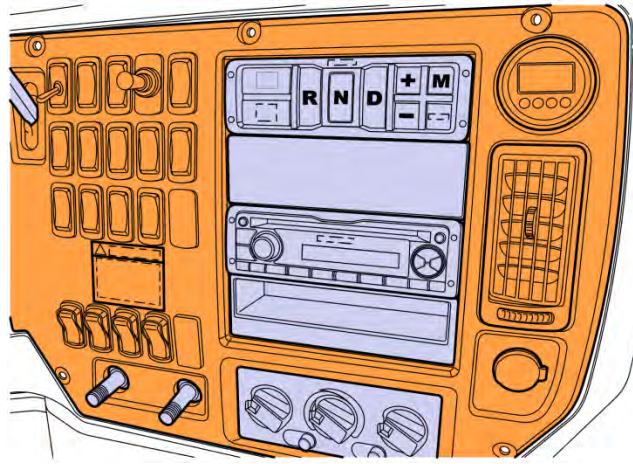
Store the switch panel fasteners for reuse.



3. Carefully, begin to remove the switch panel and disconnect the plug from the auxiliary 12V power outlet.



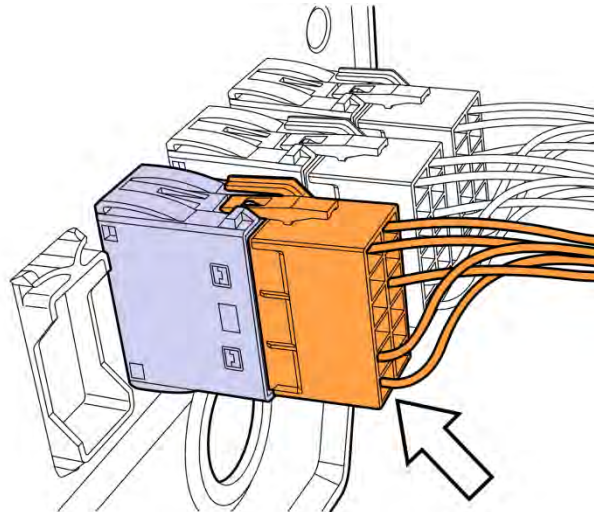
4. Rotate the switch panel to a comfortable work position.



5. Remove the switch connectors from each switch.

NOTE

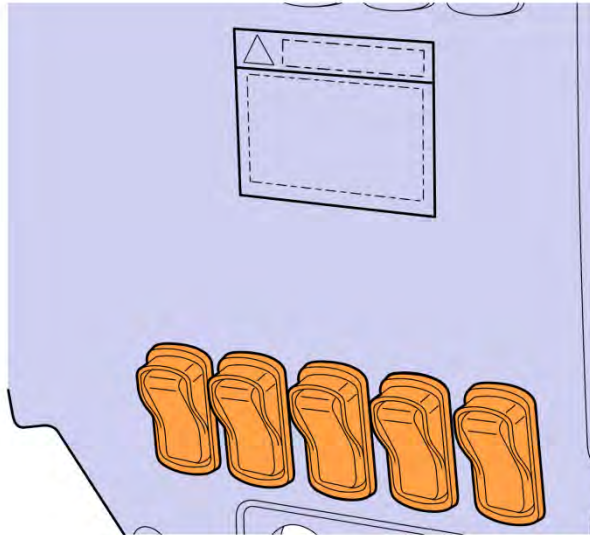
Note the location of each connector for installation of the new switch panel.



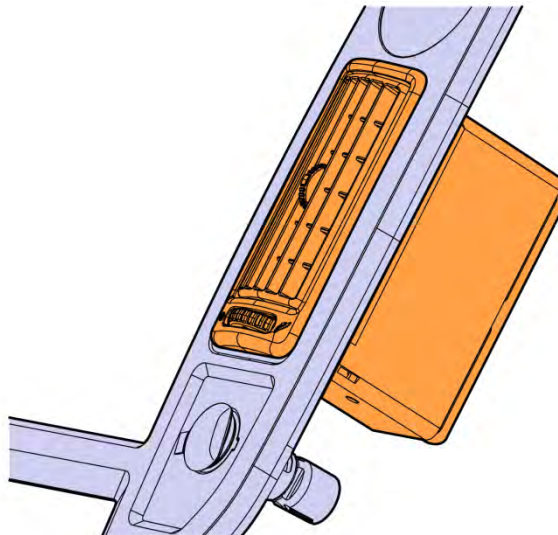
6. Remove any switch blanks from the switch panel and store them for reuse.
7. Remove all the switches from the switch panel and store them for reuse.

NOTE

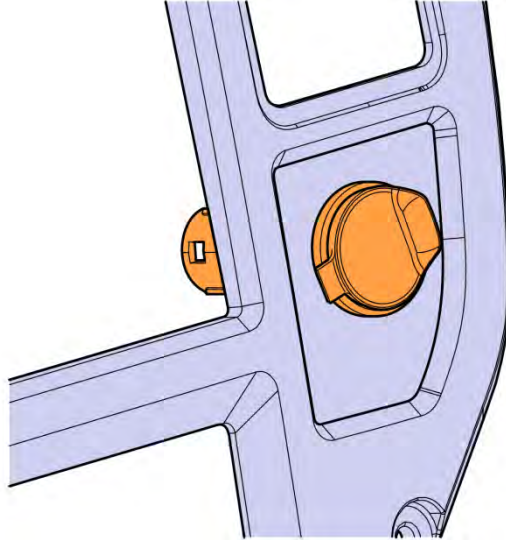
Note the location of each switch for installation in the new switch panel.



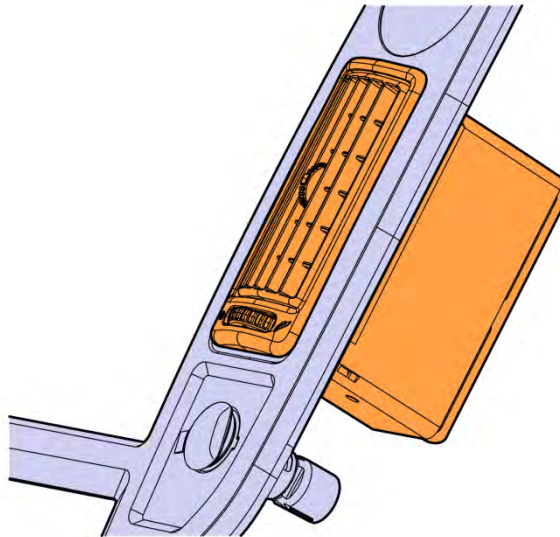
8. Remove the dash vent and store it for reuse during installation of the replacement switch panel.



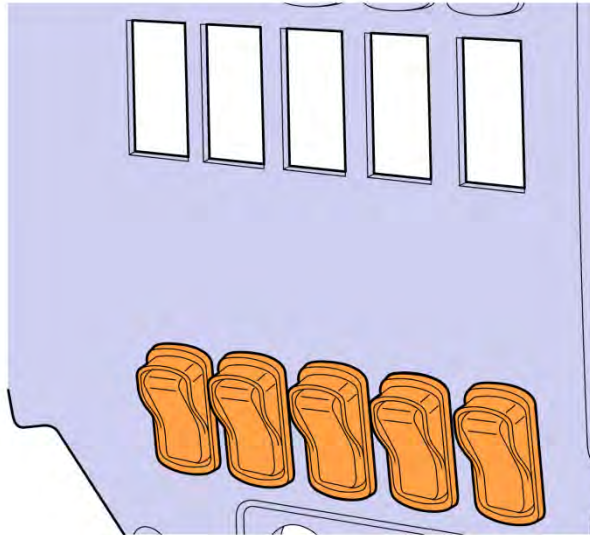
9. Discard the existing switch panel.
10. Install the new auxiliary 12V power outlet and mounting ring cap in the replacement switch panel.



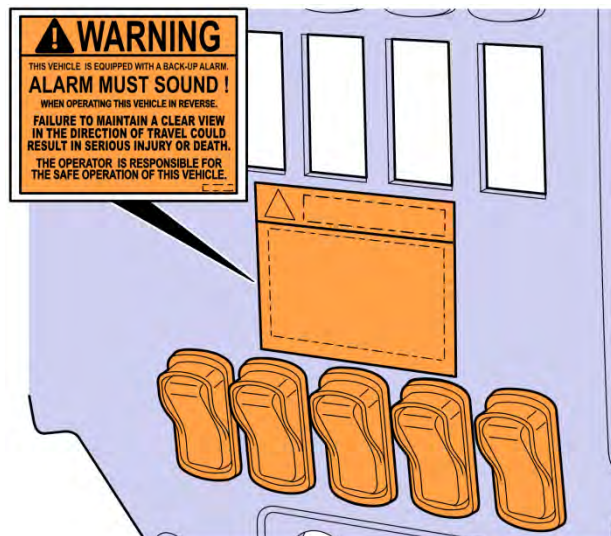
11. Install the previously stored dash vent into the replacement switch panel.



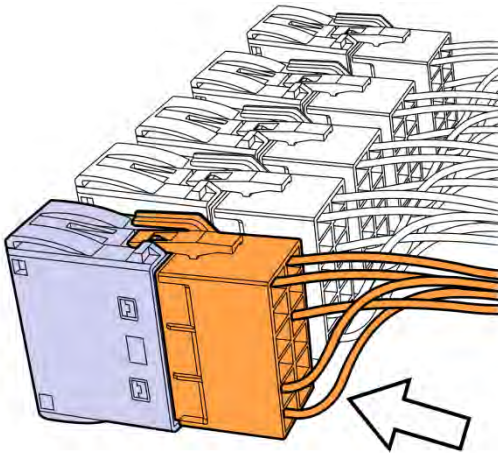
12. Install the previously stored switches as noted in step 7.



13. If applicable, install the Back-Up Alarm decal as shown in the figure below.



14. Reconnect all the switch connectors as previously noted in step 5.



15. Rotate the switch panel to a comfortable work position.

16. Verify proper operation of all switches that were transferred to the replacement switch panel.

17. Return to step 5 (page 7) **“FIFTH WHEEL AIR RELEASE SWITCH INSTALLATION PROCEDURE”**

REIMBURSEMENT:

This repair is covered by an authorized Safety Recall campaign. Reimbursement is obtained through the normal claim handling process.		
	UHP Reimbursement	eWarranty Reimbursement
Claim Type (Used when uploading from the Dealer business System)	40	40
Recall Status		
Vehicle repaired per instructions		1-Modified per instructions
Labor Code		
Primary Labor Code (Fifth Wheel Air Release Switch, Installation)	3646-02-09-01 0.4 hrs	7334C-01-95 0.4 hrs
Labor Code (Switch Panel, Installation)	8811-02-09-01 2.0 hrs	7314A-01-95 2.0 hrs
Time to take charge of vehicle and determine campaign status	1700-16-01-01 0.3 hrs	101AA-0A-00 0.3 hrs
Causal Part	82457904	82457904
Authorization Number	C6558	SC0390

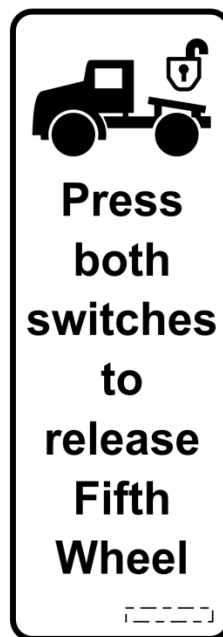
Take-charge time is not included in the labor code for this operation. Take charge may be eligible, but can only be used once per vehicle repair visit. If the vehicle is having other warranty repairs performed, take-charge should be charged to the warranty repair, otherwise take-charge can be charged to this Safety Recall campaign.

FIFTH WHEEL AIR RELEASE SWITCH INSTRUCTIONS:

If equipped with an air release system that has a switch to unlatch the fifth wheel, please follow these instructions to ensure correct and safe operation of the system.

To disengage the kingpin lock, you must push both switches at the same time. These switches have the same symbol as shown on the label below.

See the example below of the dash label. The tractor symbol with lock designates the switches that must be pressed simultaneously to unlock the kingpin lock.



Once the switches are pushed, the kingpin lock will open if the park brake is set. To relock the kingpin you MUST disconnect and reconnect the trailer as activation of the kingpin lock release switches ONLY unlocks the kingpin latch mechanism. To relock the latch mechanism, you MUST follow the instructions in the Operators Manual for uncoupling and recoupling a trailer. Failure to follow these instructions can result in separation of the trailer from the tractor causing personal injury or death.