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## Tools Required

- Needle Nose Vise Grips
- Cable Cutters
- Crimping Tool
- 3/8" & 7/16" Ratcheting Wrench
- 3/8" Deep Well Socket
- 13/64" Drill Bit
- Electrical Tape
- Drill
- Flat Head Screwdriver
- Socket to Drill Adapter
- Manual Override Shaft (included)

## Manual Override Procedure

Use the flex shaft and #3 square bit provided. Locate each motor at the top of the mechanism. Insert the drive bit into the end of the motor and activate with a cordless drill. **DO NOT USE AN IMPACT DRIVER.** Alternate between motors so that the room does not become wedged in the opening or encounter cabinets or other fixtures in the RV.



## Adjustment Procedure

1. To ensure a proper seal, run the slide room until it is within 6" of being fully out. Make sure all the standoff brackets and cables are lined up with the pre-punched holes in the jamb. If not, adjust standoff brackets accordingly.
2. Run the slide room in until it is within 6" of being fully in. Make sure all the standoff brackets and cables are lined up with the pre-punched holes in the jamb. If not, adjust standoff brackets accordingly.
3. Run the slide room all the way in. Remove all excess slack from the interior bottom cables until snug, and then adjust the interior top cables until snug.
4. If a proper seal is not accomplished, contact technical support at 877-557-7788.

## Exterior Wipe Seal Replacement Procedure

Part #: R854081

1. Locate the pinch points of the wipe seal channel at the top and bottom of the jamb.
2. Open the pinch points with a flat head screwdriver.
3. Slide the wipe seal down and out of the channel to remove it from the jamb.
4. Spray the wipe seal channel with soapy water.
5. Slide the new wipe seal on from the bottom up. **Be sure to check that both ribs of the wipe seal are clipped into position.**
6. Once in position, pinch the wipe seal channel at the top and the bottom of the jamb to ensure that the wipe seal is secure and won't slide out.

## Interior Wipe Seal Replacement Procedure

Part #: R854081

1. Locate the pinch points of the wipe seal channel at the top and bottom of the jamb.
2. Open the pinch points with a flat head screwdriver.
3. Remove the bottom anchor tab.
4. Slide the wipe seal up and out of the channel to remove it from the jamb.
5. Spray the wipe seal channel with soapy water.
6. Slide the new wipe seal on from the top down. **Be sure to check that both ribs of the wipe seal are clipped into position.**

## Exterior Cable Patch Replacement Procedure



Part #: 25041

1. Create slack in the exterior cable by loosening the interior cable and physically pushing the room in.
2. Disconnect the exterior cable from the standoff bracket.
3. Remove and discard the old cable patch.
4. Clean the surface of the jamb with rubbing alcohol or mineral spirits.
5. Drill a hole in the middle of the new cable patch with a 13/64" drill.
6. Slide the new cable patch onto the cable.
7. Connect the exterior cable back onto the exterior standoff bracket.
8. Readjust the interior cable.
9. With the exterior cable properly aligned, remove the red 3M tape backing from the cable patch and adhere it to the jamb.

## Interior Top Cable Replacement Procedure



Part #: 21700146

1. Carefully operate the room to the neutral position (halfway in/out).
2. Remove the jamb clamp from the interior wall on the side of the cable to be replaced.
3. Support the room with a floor jack and wood block.
4. Loosen the damaged cable at the interior standoff bracket.
5. Remove the interior standoff bracket from the wall of the slide room, and disconnect the damaged cable from the standoff bracket.
6. Make a clean cut of the damaged cable, saving as much of the old cable as possible.
7. Route the new cable through the standoff bracket and thread the coupling nut on approximately 1/4".
8. Reattach the standoff bracket to its original position on the wall of the slide room using one or two screws (standoff bracket will be removed again later).
9. Insert both the replacement and the newly cut damaged cable into opposite ends of the braided sleeve. Tape both ends of the braided sleeve with electrical tape and wrap tightly from the sleeve onto the cable. **DO NOT BUILD UP TAPE ON THE BRAIDED SLEEVE, AS THIS MAY CAUSE THE CABLE TO BECOME LODGED IN A PULLEY.** The tape will ensure that the sleeve does not come off the cable during the routing process.
10. Pull the cable through the jamb until the sleeve fully passes through the pulleys.
11. Remove the braided sleeve from the new cable, and discard the old cable.
12. Insert the new cable through the cable connector bracket located on the chain. **ENSURE THE CABLE IS NOT WRAPPED AROUND THE CHAIN.**
13. Slide the ferrule onto the cable and seat it into the cable connector bracket.
14. Hold the ferrule in place by clamping the cable below the ferrule with needle nose vise grips.
15. Remove the standoff bracket from the wall of the slide room and disconnect the cable to create slack for the crimp point.
16. Pull the cable out of the jamb, keeping the ferrule and vise grips together.
17. Finish routing the cable through the other side of the ferrule, creating a loop approximately 1/2" - 1" in size.
18. Place 3 crimps on the ferrule, cut and discard the excess cable, and seat the ferrule into the cable connector bracket.
19. Reroute the cable through the standoff bracket and resecure the bracket to the wall of the slide room.
20. Install the washer and coupling nut on the cable, and thread until finger tight.
21. Reinstall the jamb clamp to the interior wall.
22. Remove the jack and wood block support.
23. Operate the room to the in position, and tighten the coupling nut to readjust the cable tension. **Before finishing the adjustment, inspect the standoff bracket location for proper cable alignment. Most cable failures are caused by misaligned standoff brackets.**
24. Once adjusted, lock the coupling nut into place with a jam nut.

## Exterior Top Cable Replacement Procedure



Part #: 21700147

1. Carefully operate the room to the neutral position (halfway in/out).
2. Remove the jamb clamp from the interior wall on the side of the cable to be replaced.
3. Support the room with a floor jack and wood block.
4. Loosen the interior top cable at the interior standoff bracket.
5. Disconnect the cable from the exterior standoff bracket.
6. Make a clean cut of the damaged cable, saving as much of the old cable as possible.
7. Connect the new cable to the exterior standoff bracket and install a new rubber grommet.
8. Insert both the replacement and the newly cut damaged cable into opposite ends of the braided sleeve. Tape both ends of the braided sleeve with electrical tape and wrap tightly from the sleeve onto the cable. **DO NOT BUILD UP TAPE ON THE BRAIDED SLEEVE, AS THIS MAY CAUSE THE CABLE TO BECOME LODGED IN A PULLEY.** The tape will ensure that the sleeve does not come off the cable during the routing process.
9. Pull the cable through the jamb until the sleeve fully passes through the pulleys.
10. Remove the braided sleeve from the new cable, and discard the old cable.
11. Insert the eye bolt into the cable connector bracket and thread the coupling nut on approximately 1/2".
12. Slide the ferrule onto the cable, loop the cable through the eye bolt, and back through the other side of the ferrule.
13. Take as much slack out of the cable as possible, and clamp cable in place with needle nose vise grips.
14. Disconnect the eye bolt from the cable connector bracket.
15. Pull the cable out of the jamb, keeping the vise grips in place.
16. Place 3 crimps on the ferrule, cut and discard the excess cable, and reattach the eye bolt to the cable connector bracket.
17. Remove the jack and wood block support.
18. Adjust the top exterior cable inside the jamb until the room is in alignment from top to bottom.
19. Operate the room to the in position, and tighten the coupling nut to readjust the cable tension. **Before finishing the adjustment, inspect the standoff bracket location for proper cable alignment. Most cable failures are caused by misaligned standoff brackets.**
20. Once adjusted, lock the coupling nut into place with a jam nut.
21. Operate the slide room in approximately 12", and reinstall the jamb clamp.

## Interior Bottom Cable Replacement Procedure



Part #: 21700146

1. Carefully operate the room to the neutral position (halfway in/out).
2. Remove the jamb clamp from the interior wall on the side of the cable to be replaced.
3. Support the room with a floor jack and wood block.
4. Loosen the damaged cable at the interior standoff bracket.
5. Remove the interior standoff bracket from the wall of the slide room, and disconnect the damaged cable from the standoff bracket.
6. Make a clean cut of the damaged cable saving as much of the old cable as possible.
7. Route the new cable through the standoff bracket and thread the coupling nut on approximately 1/4".
8. Reattach the standoff bracket to its original position on the wall of the slide room using one or two screws (standoff bracket will be removed again later).
9. Insert both the replacement and the newly cut damaged cable into opposite ends of the braided sleeve.. Tape both ends of the braided sleeve with electrical tape and wrap tightly from the sleeve onto the cable. **DO NOT BUILD UP TAPE ON THE BRAIDED SLEEVE, AS THIS MAY CAUSE THE CABLE TO BECOME LODGED IN A PULLEY.** The tape will ensure that the sleeve does not come off the cable during the routing process.
10. Pull the cable through the jamb until the sleeve fully passes through the pulleys.

11. Remove the braided sleeve from the new cable, and discard the old cable.
12. Remove the cable connector bracket from the end of the chain.
13. Place the ferrule on the cable and loop the cable through the second open link in the chain and back through the other side of the ferrule.
14. Take as much slack out of the cable as possible then clamp cable in place with needle nose vise grips.
15. Remove the standoff bracket from the wall of the slide room and disconnect the cable to create slack for the crimp point.
16. Pull the cable out of the jamb, keeping the ferrule and vise grips together.
17. Place 3 crimps on the ferrule. Cut and discard the excess cable.
18. Reroute the cable through the standoff bracket and resecure the bracket to the wall of the slide room.
19. Install the washer and coupling nut on the cable, and thread until finger tight.
20. Reinstall the jamb clamp to the interior wall.
21. Remove the jack and wood block support.
22. Operate the room to the in position, and tighten the coupling nut to readjust the cable tension. **Before finishing the adjustment, inspect the standoff bracket location for proper cable alignment. Most cable failures are caused by misaligned standoff brackets.**
23. Once adjusted, lock the coupling nut into place with a jam nut.

## Exterior Bottom Cable Replacement Procedure



Part #: 21700147

1. Carefully operate the room to the neutral position (halfway in/out).
2. Remove the jamb clamp from the interior wall on the side of the cable to be replaced.
3. Support the room with a floor jack and wood block.
4. Disconnect the cable from the exterior standoff bracket.
5. Make a clean cut of the damaged cable, saving as much of the old cable as possible.
6. Connect the new cable to the exterior standoff bracket and install a new rubber grommet.
7. Insert both the replacement and the newly cut damaged cable into opposite ends of the braided sleeve. Tape both ends of the braided sleeve with electrical tape and wrap tightly from the sleeve onto the cable. **DO NOT BUILD UP TAPE ON THE BRAIDED SLEEVE, AS THIS MAY CAUSE THE CABLE TO BECOME LODGED IN A PULLEY.** The tape will ensure that the sleeve does not come off the cable during the routing process.
8. Pull the cable through the jamb until the sleeve fully passes through the pulleys.
9. Remove the braided sleeve from the new cable, and discard the old cable.
10. Remove the cable connector bracket from the end of the chain.
11. Slide the ferrule onto the cable, loop the cable through the second open link in the chain, and back through the other side of the ferrule.
12. Take as much slack out of the cable as possible, and clamp cable in place with needle nose vise grips.
13. Disconnect the cable from the exterior standoff bracket to create slack for the crimp point.
14. Pull the cable out of the jamb, keeping the vise grips in place.
15. Place 3 crimps on the ferrule. Cut and discard the excess cable.
16. Remove the jack and wood block support.
17. Operate the slide room to the out position, and tighten the coupling nut to readjust the cable tension. **Before finishing the adjustment, inspect the standoff bracket location for proper cable alignment. Most cable failures are caused by misaligned standoff brackets.**
18. Once adjusted, lock the coupling nut into place with jam nut.
19. Operate the slide room in approximately 12", and reinstall the jamb clamp.

## Jamb Replacement Procedure



*Part #: Located inside jamb*

1. Carefully operate the room to the neutral position (halfway in/out).
2. Remove the jamb clamp from the interior wall on the side of the jamb to be replaced.
3. Support the room with a floor jack and wood block.
4. Loosen and disconnect both interior cables from the standoff brackets.
5. Disconnect the motor wires.
6. Located at the top corner and the bottom corner of the slide room opening, between the two wiper seals, is an anchor tab. Using a long bit, remove the two screws that are secured to the top of the slide room opening. Then remove the two screws that secure the bottom anchor tab.
7. Remove the "D" seal from the jamb, exposing the screws that secure the jamb to the slide out opening, and remove the screws.
8. Take a razor knife and carefully slide it down the side of the jamb to break the silicone seal free.
9. Disconnect the cables from the exterior standoff brackets.
10. Pull the jamb from the opening.
11. Place the new jamb on a work bench, and prepare for installation by applying a butyl or foam tape across the back side of the "D" seal channel.
12. Pull the slack out of the chain by pulling the bottom cables, and tuck the motor wires into the jamb to avoid damage.
13. Place the jamb into the opening, and secure it to the exterior wall by placing one screw through the "D" seal track toward the bottom of the jamb, and one toward the top of the jamb. **BE SURE TO CHECK THAT THE JAMB IS FULLY SEATED AGAINST THE TOP AND SIDE OF THE WALL OPENING TO ENSURE PROPER ROOM CLEARANCE.**
14. Square the jamb to the wall by securing the top and bottom anchor tabs. Once square, finish fastening the jamb to the wall through the "D" seal channel.
15. Slide the "D" seal into the channel, and secure it to the jamb by adding a screw through the seal at the top, and one at the bottom.
16. Connect the exterior cables to the exterior standoff brackets. Install rubber grommets to ensure that the cable will not slide out of the slot.
17. Reinstall the jamb clamp to the interior wall. **BE SURE TO CHECK THAT THE JAMB CLAMP IS PROPERLY CLIPPED INTO THE JAMB FROM TOP TO BOTTOM.**
18. Route the interior cables through the interior standoff brackets.
19. Remove the jack and wood block support.
20. Operate the slide-room all the way in. Adjust the bottom cable first, and then the top cable.

## Motor Replacement Procedure



*Part #: Left Hand R25079, Right Hand R25078*

1. Remove the jamb by following steps 1-10 under "Jamb Replacement".
2. Place the jamb on a workbench.
3. Pull the slack out of the chain by pulling the bottom cables through the jamb.
4. Remove the two motor mount bolts.
5. Lift and slide the motor assembly toward the top of the jamb until there is enough slack to unseat the chain from the sprocket and remove the motor assembly.
6. Seat the chain onto the sprocket on the new motor assembly.
7. Pull both sides of the chain down while positioning the motor assembly toward the motor mount. Fully seat the motor assembly in between the plastic chain guide and the motor mount.
8. Reinstall the two motor mount bolts after applying Loctite to the threads.
9. Reinstall the jamb by following steps 11-20 under "Jamb Replacement".

## Operation

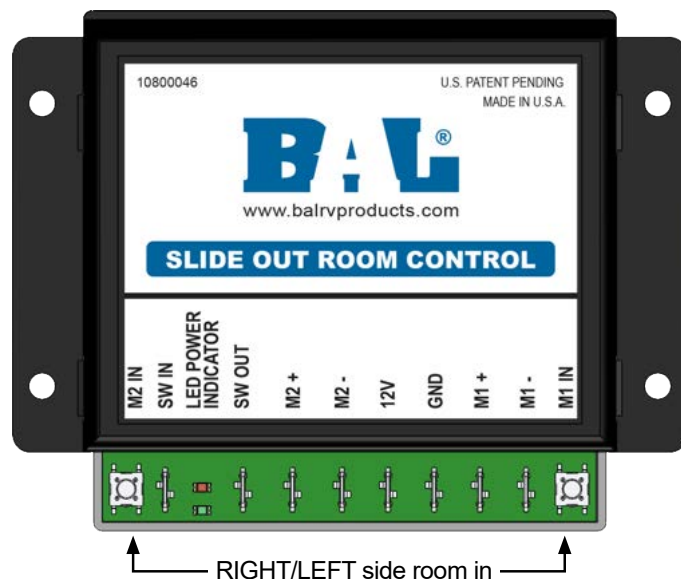
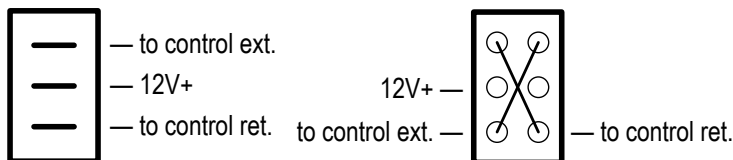
1. Ensure slide out system has adequate power to operate the slide room, a fully charged battery, and/or shore power hookup.
2. Activate the slide room by depressing the desired direction of the switch until the slide room has achieved its desired position. Holding the switch down until the control turns each motor off will result in the best sealing position.
3. Ensure that the rooms are fully retracted before moving, leveling, or stabilizing the unit.

## 12V Electrical Wiring

- Locate the slide out motor control in a dry interior location that is accessible.
- Connect each motor with 10ga. wire to the control.
- Supply 12V power to the control with 10ga. wire through a 30 amp. self-resetting breaker.
- Total length of wire for the above connections may not exceed 65 ft.
- Connect a SPDT or DPDT momentary center off switch to the control.

- **M1-** to motor #1 red wire
- **M1+** to motor #1 black wire
- **GND** to 12V-
- **12V** to 12V+
- **M2-** to motor #2 red wire
- **M2+** to motor #2 black wire
- **SW OUT** to switch extend
- **SW IN** to switch retract
- Provide a 12V+ to the control on either the **SW OUT** or **SW IN** to actuate the room.

## CONTROL CONNECTIONS



## Troubleshooting

If the slide out does not respond to switch input, locate the **green** and **red** LED lights between 'SW IN' and 'SW OUT' on the slide out control, which may be located in a cabinet, storage compartment, etc.

- The **green** light indicates that the control has power.
- The **red** light indicates low voltage (less than 8.6vdc). NOTE: The control will enter sleep mode and the light will turn off after 5 minutes of switch inactivity.
- To determine if the control is not getting a signal from the switch, use either the M1 IN (Motor 1 in) or M2 IN (Motor 2 in). Press and hold one of these at a time to see if the slide motor of the corresponding side will move in. If the motor runs using the switch on the control than look for power loss coming from the wall switch or a bad switch. (Only one motor at a time can be run with the switches on the control.)

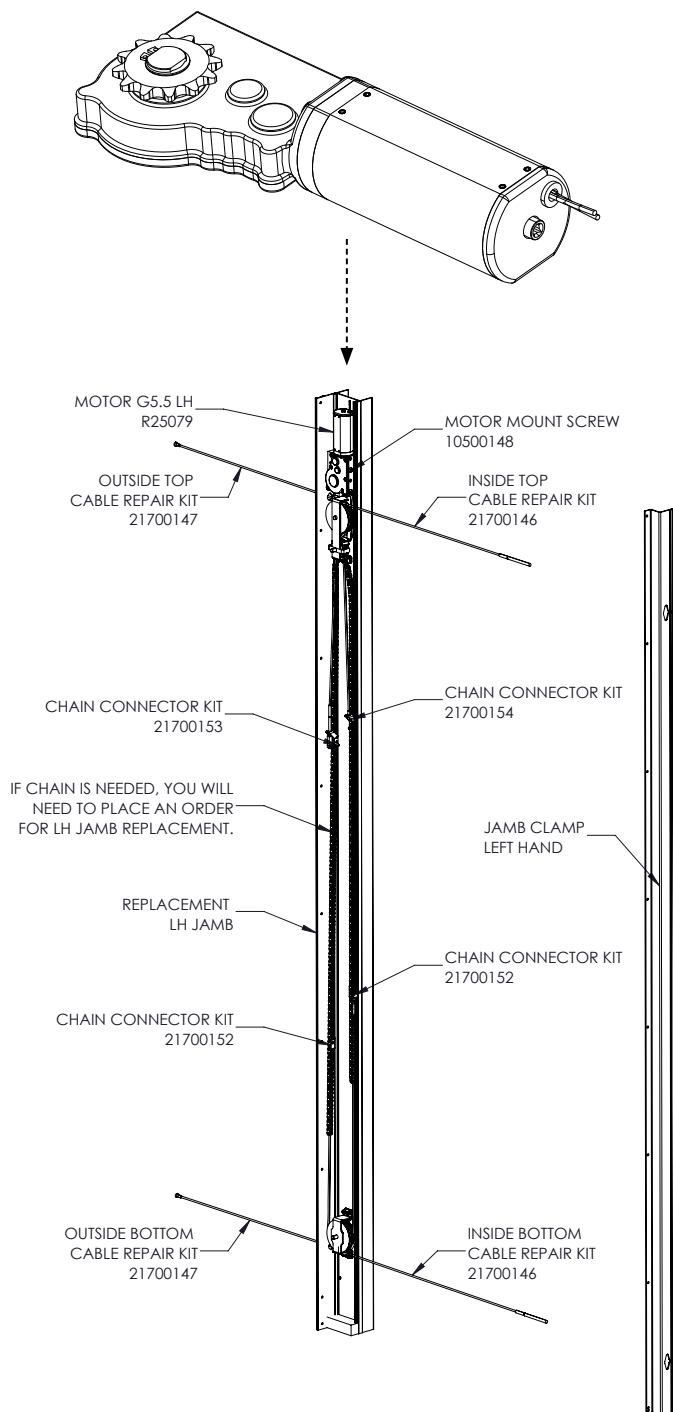
If a motor has been changed or the loading of the slide out box has changed drastically and the motors are not tracking properly, press and hold the M1 IN and M2 IN at the same time until the red LED flashes. This will erase the stored memory that the control has learned overtime and it returns it to its factory setting.

## Service Parts

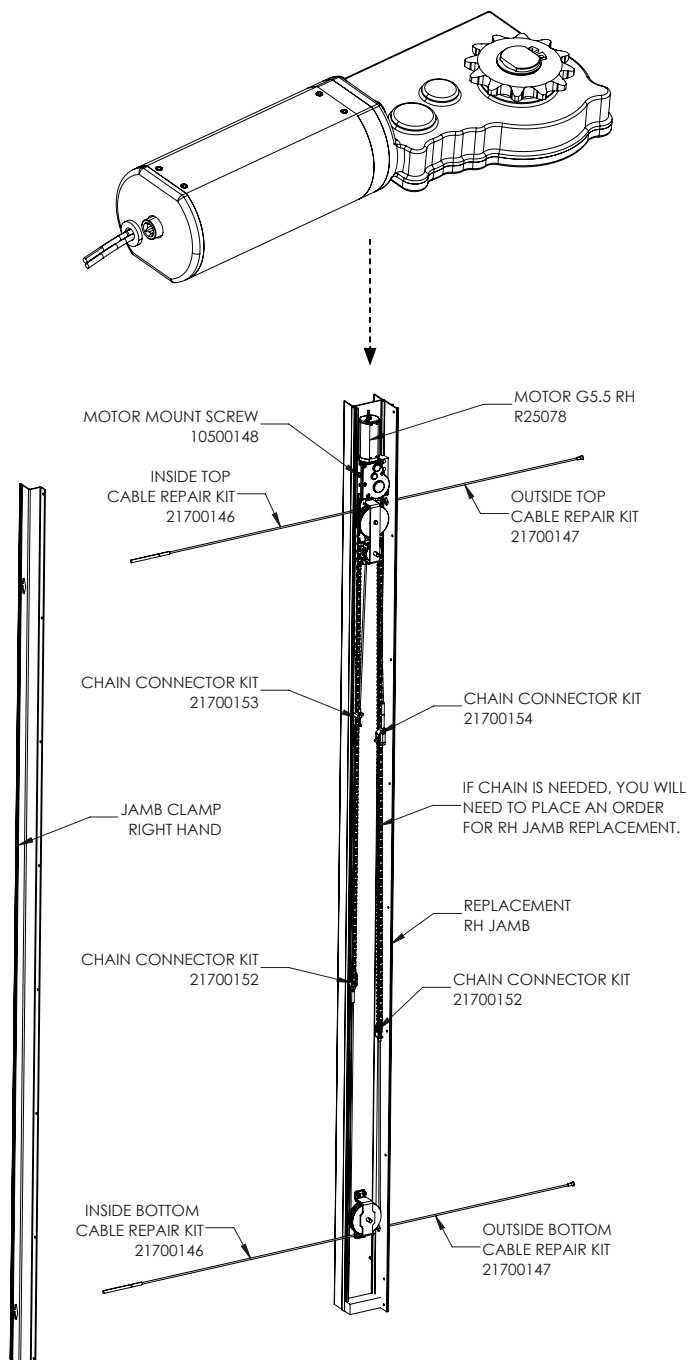
Refer to the inside of the jam for the slide system part number.

Left and right jambs are determined by viewing the slide system from inside the coach.

### Left Jamb



### Right Jamb



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Follow proper safety practices. If in doubt, consult a professional RV technician.