

Operation

CAUTION

Always make sure that the slide-out room path is clear of people, pets and objects before and during operation of the slide-out. Always keep away from the gear racks when the slide-out room is being operated. Obstructions in the slide-out room's path can cause serious personal injury, severe product or property damage .

CAUTION

Moving parts can pinch, cut or crush. Keep clear and use caution.

Prior to Moving the Slide-Out Room

1. Make sure the engine or generator is running to ensure ample voltage is being supplied to the slide-out controller.
2. Set the parking brake if applicable.

Extending the Slide-Out Room

1. The engine or generator must be running, or unit must be plugged into shore power.
2. Transmission must be in park or neutral (if applicable).
3. If applicable, set the park brake and level the unit.
4. If equipped, remove the transit bars.
5. If equipped, turn "on" the on/off switch or key.
6. Press and hold the OUT button (Fig. 8A or 9A). There will be a slight delay before the slide-out room will begin to move. This is normal.
7. Release the button when the slide-out room is fully extended and stops moving.
8. If equipped, turn "off" the on/off switch or key.

Retracting the Slide-Out Room

1. The engine or generator must be running, or the unit must be plugged into shore power.
2. If applicable, transmission must be in park or neutral.
3. If applicable, set the park brake and level the unit.
4. If equipped, turn "on" the on/off switch or key.
5. Press and hold the IN button (Fig. 8B or 9B). There will be a slight delay before the slide-out room will begin to move. This is normal.
6. Release the button when the slide-out room is fully retracted and stops moving.
7. If equipped, turn "off" the on/off switch or key.
8. If equipped, install the transit bars.

Troubleshooting

Controller 1510000199 / 366697

Controller 1510000199 / [366697](#), which connects to a touchpad, has the ability to detect and display several faults. When a fault is detected, the slide-out room movement will stop and two different LEDs on the touchpad will flash in a pattern.

NOTE: The slide-out system with controller 1510000199 / [366697](#) will **NOT** function until the stops are properly set or faults are cleared.

1. The FAULT CODE LED (Fig. 10A) on the touchpad will flash red a number of times corresponding to a specific fault code. Refer to Fault Code Table - Controller 1510000199 / [366697](#) to best determine what caused the fault.
2. The ROOM MOVEMENT LED (Fig. 10B) on the touchpad indicates system operation and will flash green a number of times corresponding to which motor had the associated fault.

NOTE: For example, four RED flashes (Fault Code) and two GREEN flashes (Motor code) means there is a motor fault on Motor 2.

NOTE: A solid GREEN LED indicates normal slide-out room movement.

There are two types of faults, minor and major. Faults **MUST** be cleared in order for the slide-out room to operate.

1. Minor faults can be cleared by pressing and releasing the IN (Fig. 10C) or OUT (Fig. 10D) buttons on the wall touchpad.
2. Major faults **MUST** be cleared by pressing and releasing the SET STOPS/CLEAR FAULTS button located on the back of the touchpad (Fig. 11A).

NOTE: For major faults, the controller must be overridden by following the Electrical Override Mode procedure described in the Override Mode section. When the problem is repaired, the controller must then be reprogrammed by an OEM-authorized dealer.

Fig. 10

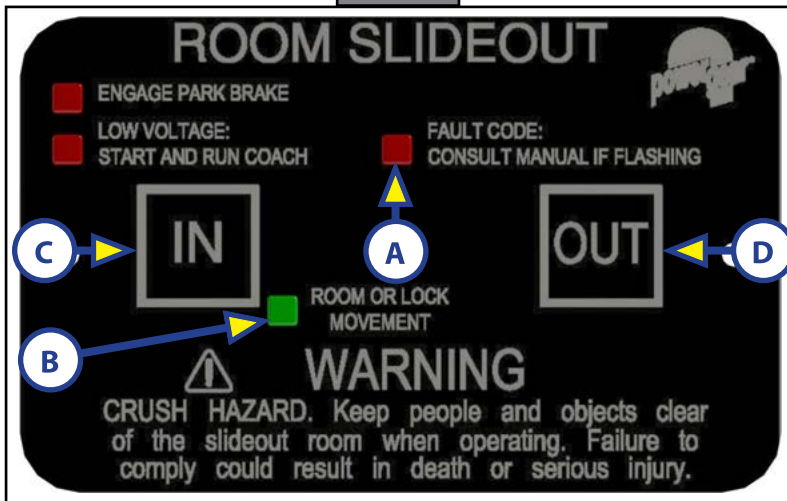


Fig. 11



Fault Code Table - Controller 1510000199 / [366697](#)

Fault Code (# of RED flashes)	Fault Type	Description	Why?	What Should Be Done?
1	Major	Stops not programmed	Stops have not been set	Stops must be programmed by an authorized service facility.
			Stops were cleared	
			Stops were improperly set	
2	Minor	System fault	Obstruction present	Run slide-out room in opposite direction of drag. If slide-out room continues to move in opposite direction, remove obstruction or have damaged component replaced. If slide-out room stops moving in opposite direction, observe fault code and refer to this chart.
			Excessive system drag	Run slide-out room in opposite direction of drag. If slide-out room continues to move in opposite direction, remove obstruction or have damaged component replaced. If slide-out room stops moving in opposite direction, observe fault code and refer to this chart.
4	Major	Motor fault	Bad or loose connection(s)	Check all connections at controller and motor. See Wiring Diagram for Controller 1510000199 / 366697 .
			Defective harness	Check harness for broken wires. Replace as needed.
			Open or shorted motor	Apply a 12V DC power source to the motor. If motor does not operate, replace the motor.
6	Minor	Excessive battery voltage	Supply voltage to controller is 17V DC or greater	Use a multimeter to check 2-pin power connector at controller. See Wiring Diagram for Controller 1510000199 / 366697 . If the voltage is 17V DC or higher, contact OEM for power and ground supplies.
Park brake LED flashing			Parking brake not set if applicable	Set parking brake if applicable
			Ground signal lost at park brake connector on controller	Check for continuity to ground on wire plugged into park brake connector at controller. See Wiring Diagram for Controller 1510000199 / 366697 .
Low voltage LED flashing			Incoming voltage to controller is below 12V DC	Use a multimeter to check 2-pin power connector at controller. See Wiring Diagram for Controller 1510000199 / 366697 . If the voltage is below 12V DC, contact OEM for recommendation.

Auto-Programmable Controllers

Auto-programmable controllers, 1510000236 / [366701](#) or 1510000276 / 366703 (Winnebago), which connect to a rocker switch, have the ability to detect and display several faults. When a fault is detected, the slide-out room movement may stop and two different LEDs on the controller will flash in a pattern.

NOTE: Not all rocker switches contain fault indicator LEDs. For best results when reading fault codes, refer to the controller's Fault Code LED scheme and Auto-Programmable Controllers Fault Codes table.

1. The Fault Code LED on the rocker switch (Fig. 12A) will flash RED a number of times corresponding to the number of red flashes on the controller (Fig. 13A).

NOTE: Refer to the Fault Code Table - Auto-Programmable Controllers to best determine what caused the fault.

2. The Motor LED (Fig. 13B) on the controller will flash GREEN a number of times corresponding to which motor had the associated fault. For example, two GREEN flashes and four RED flashes means there is a motor fault on Motor 2.

NOTE: For major faults, the controller will automatically enter "Emergency Jog" mode when motor movement is not detected by the controller in either direction during slide-out room activation. When in "Emergency Jog" mode, the controller will jog both motors in the direction the rocker switch is pressed (IN or OUT). The rocker switch may need to be pressed multiple times to fully retract or extend the slide-out room. Take the unit to an OEM-authorized dealer for service.

The controller will return to normal operation mode after five minutes of inactivity or by cycling the power to the controller.

Fig. 12

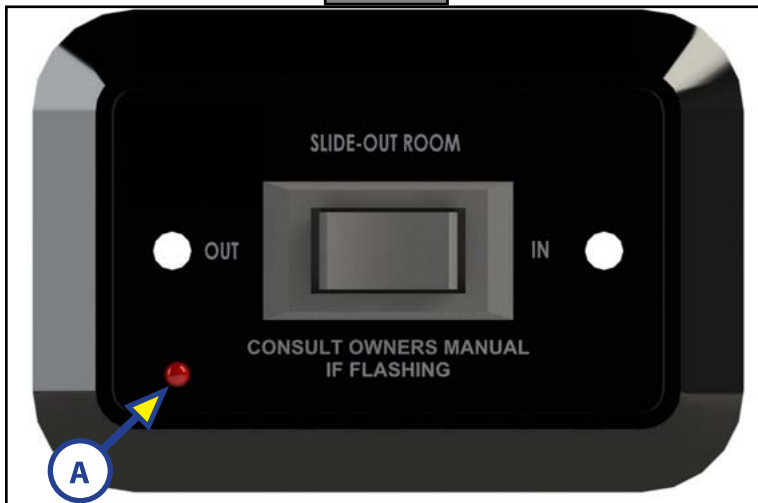
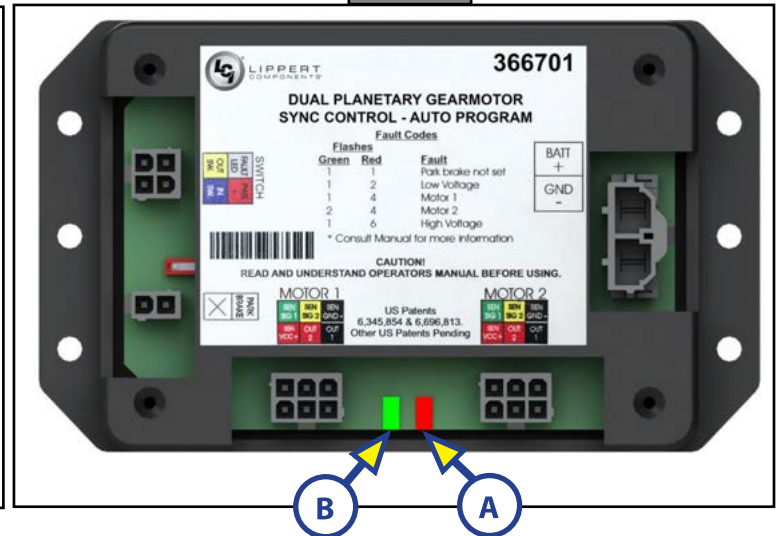


Fig. 13



Fault Code Table - Auto-Programmable Controllers

Fault Code Flashes		Fault Type	Description	Why?	What Should Be Done?
Green Flash	Red Flash				
1	1	Minor	Park brake not set	Park brake not set if applicable	Set parking brake if applicable.
				Ground signal lost at park brake receptacle at controller	Check for continuity to ground on wire plugged into park brake receptacle at controller.
1	2	Minor	Low voltage	Incoming voltage to controller is below 12V DC. The slide-out room will NOT move if voltage is 10.5V DC or below	Start vehicle, generator, or make sure coach is plugged into shore power. Use a multimeter to check 2-pin power connector at controller at BATT+ and GND-. Consult manufacturer of unit's charging system for troubleshooting assistance.
1	4	Major	Motor 1 fault	Bad wire connection	Refer to Troubleshooting Control Box for SlimRack Systems (82-S0533). To locate this document online, go to https://www.lci1.com/slide-outs/support-slimrack . Go to the Technical Information Sheets tab. Look for: <i>Troubleshooting Control Box for SlimRack Systems (82-S0533)</i> in the document listing.
				Bad motor	
2	4	Major	Motor 2 fault	Bad wire connection	
				Bad motor	
1	6	Minor	High voltage	Supply voltage to controller is 17V DC or greater	Consult manufacturer of unit's charging system for troubleshooting assistance.

Electrical Override Modes

Controller 1510000199 / 366697

In the event of component failure, the slide-out room operation can be overridden and retracted for travel. Use this procedure when there is NO loss of power or electrical problem with the system.

1. Using a Phillips head screwdriver, remove the touchpad from the wall.
2. Prior to clearing the MAJOR fault, write down the number of red and green flashes, indicated by the LEDs on the touchpad, for reference later.

NOTE: Once the slide-out room is forced to move, the fault code will be cleared. Writing down the fault code allows monitoring to see if the original code changes to a different code. This information will help the OEM-authorized dealer troubleshoot the slide-out system.

3. Press and hold the SET STOPS / CLEAR FAULTS button (Fig. 14A) on the back of the touchpad for five seconds. Both red and green LEDs will be solidly lit while this button is pressed. After five seconds, the GREEN LED will begin flashing and the RED LED will remain solidly lit.

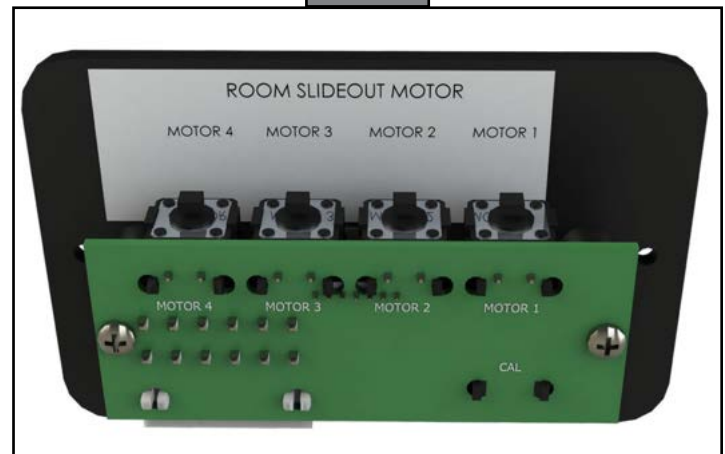
NOTE: The unit is now ready to retract the slide-out room.

4. Press and hold the ROOM SLIDEOUT MOTOR buttons 1 and 2 on the back of the touchpad (Fig. 15).

Fig. 14



Fig. 15



⚠ CAUTION

During this procedure, the slide-out room has NO stop locations. Use another person to assist in determining when the slide-out room is retracted. Damage to the slide-out room can occur if the slide-out room is retracted too far.

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5. Press the IN button on the front of the wall touchpad until the slide-out room is fully retracted. If one side of the slide-out room needs to retract further in order to get a good seal, press and hold the motor button corresponding only to the motor on the side that needs to move. Press the IN button on the front of the touchpad to retract the slide-out room the remainder of the way.

NOTE: At any time during the override procedure, the unit will exit the override mode if the slide-out room has not been moved for two minutes or if a fault is detected during slide-out room movement. The Fault Code and Room or Lock Movement LEDs on the front of the touchpad will flash rapidly for 10 seconds to indicate that the override procedure failed. After 10 seconds of flashing, the controller will automatically default to FAULT CODE 1 and programming must be restarted. Refer to Controller 1510000199 / 366697 Fault Codes chart for additional information.

6. Using a Phillips head screwdriver, reinstall the wall touchpad.
7. Take the unit to an OEM-authorized dealer for repairs.

NOTE: After the system has been overridden, the controller must be re-programmed by an OEM-authorized dealer.

Auto-Programmable Controllers

For major faults, controllers 1510000236 / [366701](#) and 1510000276 / 366703 will automatically enter "Emergency Jog" mode when motor movement is not detected by the controller, in either direction, during slide-out activation. When in Emergency Jog mode, the controller will jog both motors in the direction the switch is pressed (IN or OUT). The switch may need to be pressed multiple times to fully retract or extend the slide-out. Take the unit to an OEM-authorized dealer for service.

NOTE: At any time during the override procedure, the unit will exit override mode if the slide-out has not been moved for five minutes. The controller will return to normal operation mode after five minutes of inactivity or by cycling power to the controller.

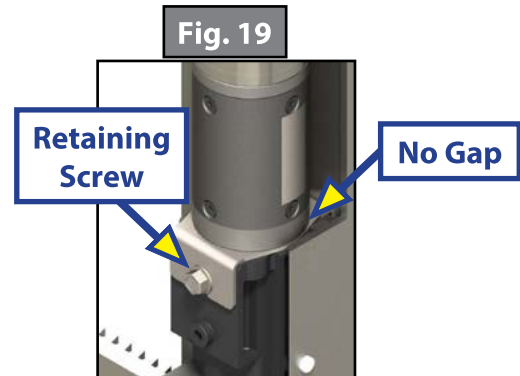
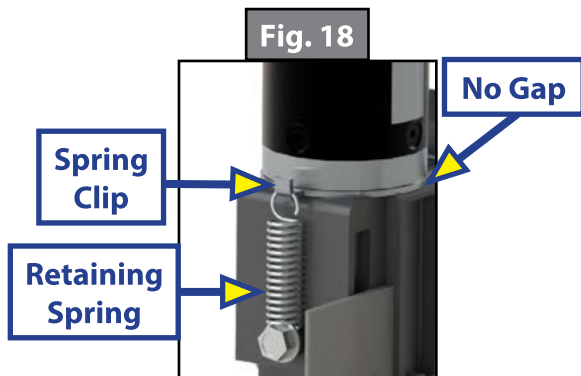
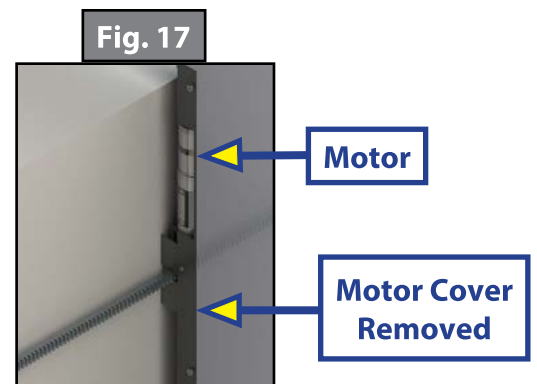
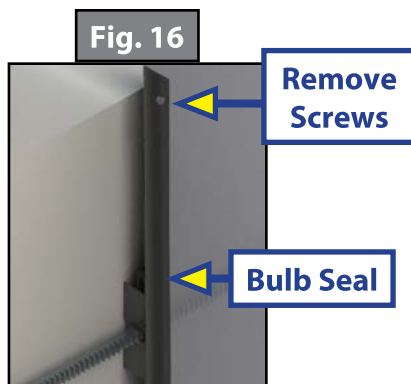
Manual Override Mode—All Controllers

In the event that power is lost to the slide-out motor(s) or when the Electrical Override Mode does not work, the slide-out room can be manually retracted by following these steps.

⚠ CAUTION

When manually retracting the slide-out room, make sure that both sides of the slide-out room move together. Damage to the slide-out room may result if movement is not uniform.

1. Gain access from either the inside or outside of the unit to the vertical channel assembly by removing the OEM trim and flange pieces on the slide-out room box. The motors are currently located at the top of the channel.
2. If applicable, use a Phillips head screwdriver to remove the top screw from the bulb seal at the top of the vertical channel (Fig. 16).
3. Pull down the bulb seal and remove the motor cover (Fig. 17). The motor cover may stick to the bulb seal.
4. If there is a retaining spring (Fig. 18), use a pick tool to remove the end of the retaining spring from the motor spring clip. Do not remove the retaining spring screw.
5. If not equipped with a retaining spring, use a $\frac{5}{16}$ " open-ended wrench or ratcheting box wrench to loosen the motor retaining screw (Fig. 19) one to two rotations. Do not remove the motor retaining screw.
6. Unplug the motor from the harness and remove the motor by lifting it up and out of the column.
7. Repeat steps 1-6 for the other side.
8. Push the slide-out room uniformly into the retracted position.
9. Once the slide-out room is retracted, secure the slide-out room in-place by:
 - A. Re-installing the motors. If there is a retaining spring, make sure the end of the retaining spring is rehooked to the motor spring clip (Fig. 18).
 - B. Torquing the motor retaining screw to 40 in-lbs (Fig. 19) with the motor retainer fully engaged.
 - C. Using a transit bar (slide-out locking bar). Make sure motor is properly seated with no gap between the mounting bracket and block (Figs. 18 and 19).
10. Have the slide-out room serviced by the OEM-authorized dealer as soon as possible. Do not operate slide-out room until service is complete, as damage to the slide-out room may result.



Alternate Override Modes—All Controllers

If none of the previous override methods retract the slide-out room, it may be possible to manually retract the slide-out room by one of the following alternate methods. Both of these procedures will only be possible if there is access to the described areas.

1. Manually retract the slide-out room using a ratchet and socket attached to the end of the coupler (Fig. 20) to move the slide-out room.
 - A. Remove the motor. Follow steps 1-6 under the Manual Override Mode section.

⚠ CAUTION

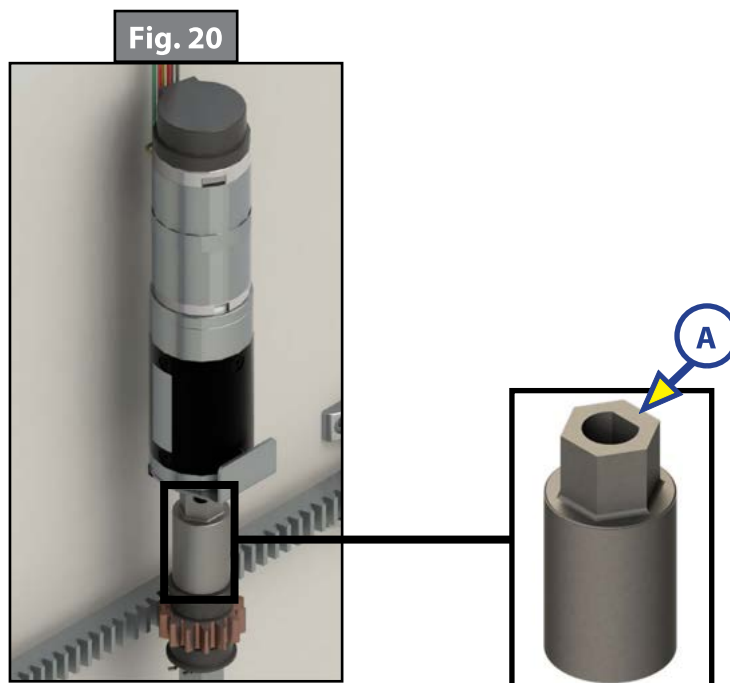
When manually retracting the slide-out room, make sure that both sides of the slide-out room move together. Damage to the slide-out room may result if movement is not uniform.

⚠ CAUTION

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- B. Place a ratcheting wrench with a 3" extension and $\frac{5}{8}$ " deep well socket through the motor access opening and seat the socket onto the coupler (Fig. 20A).
- C. Using the ratcheting wrench with socket, and alternating from one side to the other, turn the wrench to retract the slide-out room.

NOTE: One person per side of the slide-out room (two total) with ratcheting wrench and socket will expedite the process. Make sure that both sides of the slide-out room retract together uniformly. The slide-out room moves approximately $\frac{1}{4}$ " for every 30-40 degree turn of the wrench.



- D. Once the slide-out room is retracted, secure the slide-out room in-place by:
 - I. Re-installing the motors. If there is a retaining spring, make sure the end of the retaining spring is rehooked to the motor spring clip (Fig. 18).
 - II. Torquing the motor retaining screw to 40 in-lbs (Fig. 19) with the motor retainer fully engaged.
 - III. Using a transit bar (slide-out locking bar). Make sure motor is properly seated with no gap between the mounting bracket and block (Figs. 18 and 19).
- E. Have the slide-out room serviced by an OEM-authorized dealer as soon as possible. Do not operate the slide-out room until service is complete as damage to the slide-out room may result.
- 2. Manually retract the slide-out room by turning the 1/2" square drive shaft of each vertical channel assembly.
 - A. Remove the motor. Follow steps 1-6 of the Manual Override Mode.
 - B. Access the 1/2" square drive shaft (Fig. 23) of each vertical channel.
 - C. Using a 1/2" 8-point, star socket and alternating from one side to the other, turn the 1/2" square drive shaft to retract the slide-out room.

NOTE: A 15 mm 12-point socket is an option if the 1/2" 8-point star socket is not available. Use caution, as the 15 mm 12-point socket does not fit as snug as the 1/2" 8-point socket.

- D. Once the slide-out room is retracted, secure the slide-out room in-place by:
 - I. Re-installing the motors. If there is a retaining spring, make sure the end of the retaining spring is rehooked to the motor spring clip (Fig. 18).
 - II. Torquing the motor retaining screw to 40 in-lbs (Fig. 19) with the motor retainer fully engaged.
 - III. Using a transit bar (slide-out locking bar). Make sure motor is properly seated with no gap between the mounting bracket and block (Figs. 18 and 19).
- E. Have the slide-out room serviced by an OEM-authorized dealer as soon as possible. Do not operate slide-out room until service is complete as damage to the slide-out room may result.

Fig. 21

