

SCHWINTEK SLIDE-OUT SYSTEM

Bulletin Type:	SRP	Publication Date:	March 2022
Bulletin #(s):	22-044	Make(s):	Jayco, Entegra Coach
Job Code(s):	<i>If affected unit has warranty remaining, submit your claim following the normal process</i>	Model(s):	Redhawk, Melbourne, Odyssey, QWEST, Melbourne Prestige
Flat Rate(s):		Model Year(s):	2019-2022

Incident:	Slide Schwintek System Binding
Affected Units:	2018-2021 Jayco Redhawk, Melbourne, Melbourne Prestige & Entegra Odyssey, Qwest
Parts List:	Redhawk, Melbourne, Odyssey - Mechanism, Slideout Schwintek 2 Motor (0313112 or 0326124) Qwest/Melbourne Prestige - Mechanism, Slideout Schwintek 2 Motor (0313113)
Misc. Tools & Supplies:	Voltage Meter Screw Gun with Square Bit 1/2" Socket
Parts Return Information:	N/A

INSPECTION FOR THE SCHWINTEK SLIDEOUT

- Prior to replacing a Schwintek Slideout Mechanism, the following items should be inspected to assist in diagnosing a possible root cause.
 - Slide-Out Controller Inspection**
 - Extend Slide-Out to the outer position
 - Remove lower left drawer from the rear wardrobe (Fig. 1)
 - Locate Slide Controller secured to back side of wardrobe front (Fig. 2)
- NOTE: Controller should have the Yellow 8 AMP logo which is shown in Figure 2. If not, it will need to be replaced.



CONTROLLER REPLACEMENT:

2. Remove fasteners
3. Remove Electrical
4. Replace Controller with new Controller (PN: 0307447)
5. Reconnect electrical and re-secure to back side of the wardrobe

- a) With the 8 AMP Slide-out Controller installed, verify there are not any error codes. During operation when an error occurs, the board will use the LEDs to indicate where the problem exists. The green LED will blink once for Motor 1, and two times for Motor 2. The red LED will blink from two to nine times, depending on the error code.

LED Error Code	Error Code Concern
2	Battery drop out: Battery capacity low enough to drop below 6 volts while running.
3	Low battery: Voltage below 8 volts at start of cycle.
4	High battery: Voltage greater than 18 volts.
5	Excessive motor current: High amperage, caused by an obstruction.
6	Motor short circuit: Motor or wiring to motor has shorted out.
8	Wire short between controller and motor: Encoder is not providing a signal. Usually a wiring problem.
9	Hall power short to ground: Power to encoder has been shorted to ground. Usually a wiring problem.

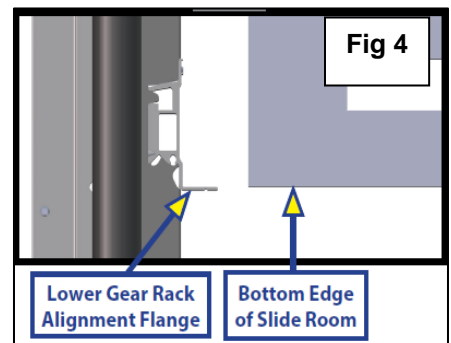
- 2) **AMP Draw Test:** If there is a known issue with the Slide-Out System, skip this inspection step. Otherwise, all units should have an Amp Draw Test completed:
- a) With the Slide-out Controller exposed by removing the drawer, locate Slide-out Controller wiring.
 - b) Connect Voltage Meter to wiring (Fig. 3)
 - c) With Voltage Meter connected:
 - i) Retract the Slide-out. Voltage should be approximately 3-4 amps
 - ii) Extend the Slide-out. Voltage should be approximately 5-6 amps.



- NOTE: A greater amperage higher than 8 may be an indicator that Slide-out may be in a bind, have obstructions and/or other additional concerns.

3) **Slide-Out Mechanism Inspection**

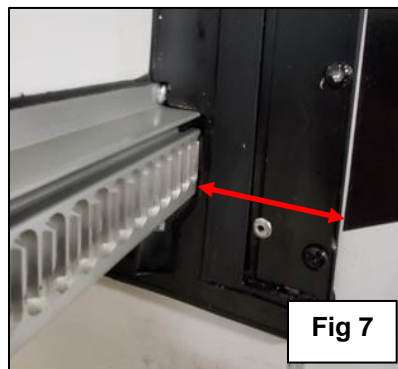
- a) ***SLIDE-OUT MECHANISM REPAIRS: If determined that the Slide-out Mechanism needs to be removed or replaced, see the Schwintek Slide-out Mechanism Replacement Instructions on page 6.***
- b) Check all gear racks on the side of the Slide-out for debris or damage.
 - i) NOTE: Some wear is normal with operation.
- c) Lower Gear Rack should be flush with the bottom of the Slide-out (Fig. 4)
- d) Distance between Upper Gear Rack and Lower Rack must be within 1/16" end-to-end (Fig. 5)



- e) With the Slide-Out fully extended, measure the distance between the end of the gear rack and the sidewall. Top and bottom gear racks should be the same dimension (Fig. 6).

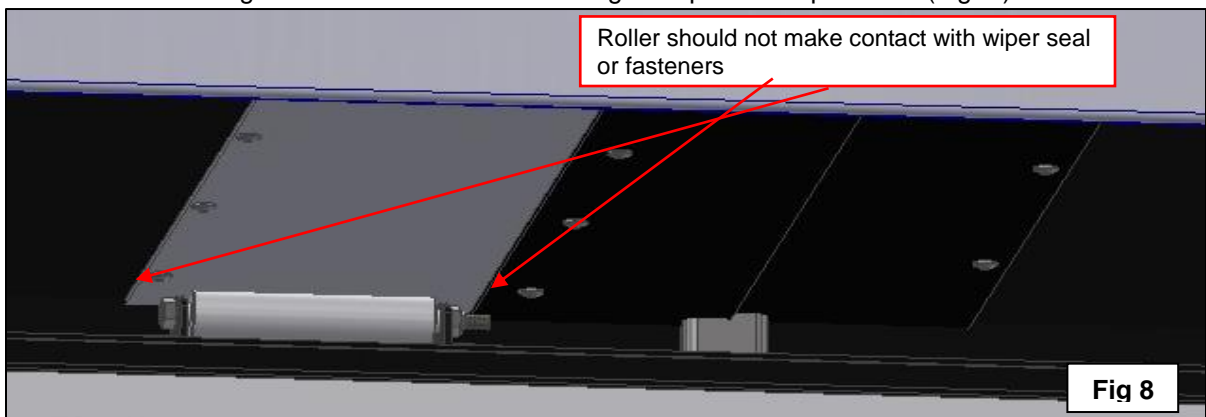


- f) Distance between gear rack and mounting flange should be 2.5 inches at all four locations (Fig. 7)



4) **Under Floor Inspections:**

- a) With the Slide-out extended, visually inspect for obstructions including wiper seal, glide strips or seat belt brackets.
- b) **Glide Strips and Wiper Seals:** inspect the wear pattern on the glide strip and wiper seals to verify the rollers are not making contact with fasteners or riding on top of the wiper seals (Fig. 8).



GLIDE STRIP AND WIPER SEAL REPAIR:

- ***Depending on the installation, there are several options for these repairs.***

- **OPTION #1 – Glide Strips can be moved with existing Pan Head Screws**

1. Extend Slide-out.
2. Remove fasteners to glide strips and/or wiper seals – save fasteners.
3. Adjust position to the glide strips and/or wiper seals to make sure the roller will not make contact.
4. Using the removed fasteners, re-secure glide strips and/or wiper seals.

- **OPTION #2 – Glide Strips can be moved with Flat Head Screws**

1. Extend Slide-out.
2. Remove fasteners to glide strips and/or wiper seals.
3. Adjust position to the glide strips and/or wiper seals to make sure the roller will not make contact.
4. With a countersink bit, countersink glide strip (make sure to not go through plastic).
5. Re-secure glide strips with flat head screws.

- **OPTION #3** - If determined that the Slide-out Roller must be moved, the Slide-out Room must be removed to complete repairs. Prior to removing Slide-out Room, locate the correct position for the Slide-out Roller.

Tools Required:

- Electric drill or cordless screw gun
 - Rubber mallet
- 2x4 (length = gap between T-molding and side of unit-1/4")
 - Razor knife
- Flathead screwdriver
 - Putty knife
 - Floor jack

- **Slide-out Room Removal:**

1. Remove/Save all Interior slide-out attachments for the slide out room to use on reassembly. Attachments will be different for each model.
2. Remove/Save all Exterior slide-out attachments for the slide out room to use on reassembly. Attachments will be different for each model.
3. Unhook any plumbing connections attached to the slide-out room (if applicable).
4. Unhook any 12 VDC and 120VAC electrical connections attached to the slide out room (if applicable).
5. Support the slide-out room safely with proper lifts.
6. Remove any bolts/screws that secure the slide-out room to the interior or exterior of the coach.
7. Safely remove slide-out from the coach wall opening with proper lifts.

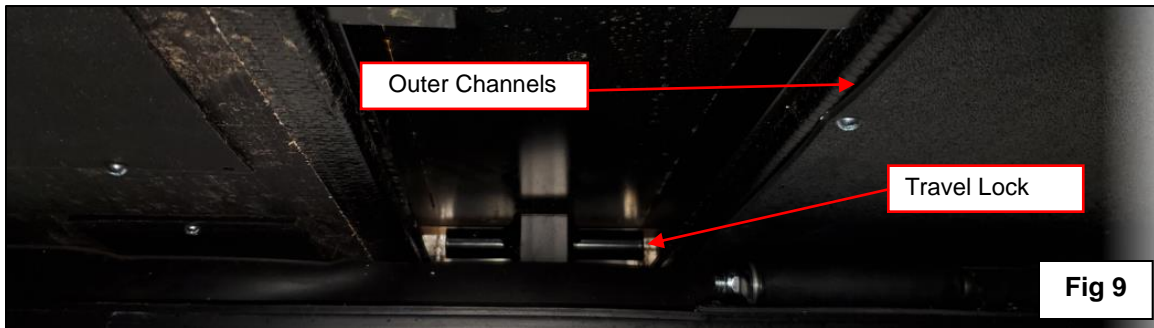
- **Move Slide-Out Rollers**

1. Remove Slide-out Roller and shims, if installed.
2. Move Slide-out Roller to necessary position as previously marked prior to removing Slide-out Room.
3. Re-install Roller and shims, if previously installed.

- **Slide-out Room Installation:**

1. Install slide-out into the coach opening.
2. Install any bolts / screws that secure the slide-out room to the coach.
3. Hook any 12 VDC and 120VAC electrical connections attached to the slide out room.
4. Install all Interior slide out trims and attachments that are attached to the slide out room.
5. Install all Exterior Slide out trims and attachments that are attached to the slide out room.

- c) **Travel Lock:** With the Slide-out extended, pull back the wiper seals to expose the travel lock. Verify the travel lock is not making contact with the outer channels. (Fig. 9 – shown without wiper seals)



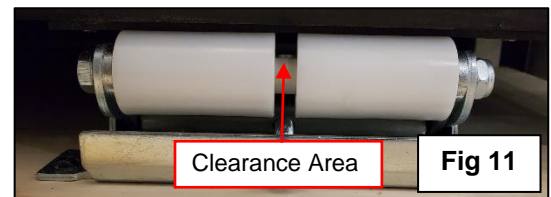
• **TRAVEL LOCK REPAIR:**

1. With the Slide-out Room in the 'IN' position, locate the Travel Lock plates (Fig. 10).
 - NOTE: Travel Locks will be installed inside the storage compartment and above generator. The Travel Lock located above generator may require the generator to be lowered for access.
2. Remove the fasteners to loosen the connection from floor.
3. Re-install fasteners with a washers located between the floor and Travel lock plate.



5) **Interior Roller Inspections**

- a) With the Slide-out fully extended:
 - i) Visually inspect the two rollers under the bed assembly. The rollers should touch but freely (Fig. 11).
 4. Remove the toe kick under the sofa/dinette area to expose the two rollers and visually inspect. The rollers should touch, but freely spin.



• **INTERIOR ROLLER HEIGHT REPAIR:** *If determined that the Slide-out Room must be removed to complete repairs, see the Slide-out Room Removal Section on page 4.*

1. Using a 1/2" Socket, turn the bolt to lower the roller.
2. With all inspections and/or repairs completed, return to step 2 to complete an Amp Draw Test to verify voltage.
3. With Voltage Meter connected:
 - Retract the Slide-out. Voltage should be approximately 3-4 amps.
 - Extend the Slide-out. Voltage should be approximately 5-6 amps.

SCHWINTEK SLIDE-OUT MECHANISM REPLACEMENT INSTRUCTIONS

A. Tools Required:

- A. Electric drill or cordless screw gun
- B. Rubber mallet
- C. 2x4 (length = gap between T-molding and side of unit-1/4")
- D. Razor knife
- E. Flathead screwdriver
- F. Putty knife
- G. Floor jack

Slide-out Removal Procedure:

Note: If the slide will not move by use of the switch it may be necessary to use one of the three methods (A, B, or C) described below:

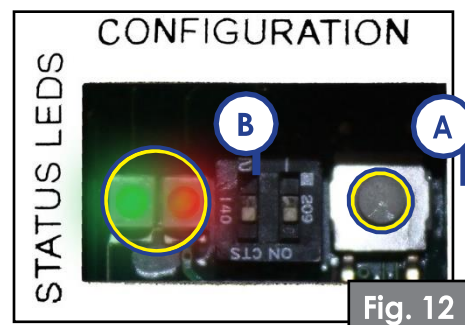


Fig. 12

- A. Use electronic override mode on the IN-WALL® controller.
 - Press the “mode button” six times quickly, press a seventh time and hold for approximately 5 seconds (Fig. 12A).
 - The red and green LED lights will begin to flash indicating system is in override mode (Fig. 12B).
 - Using the wall switch, press and hold the IN button until the unit comes completely in.

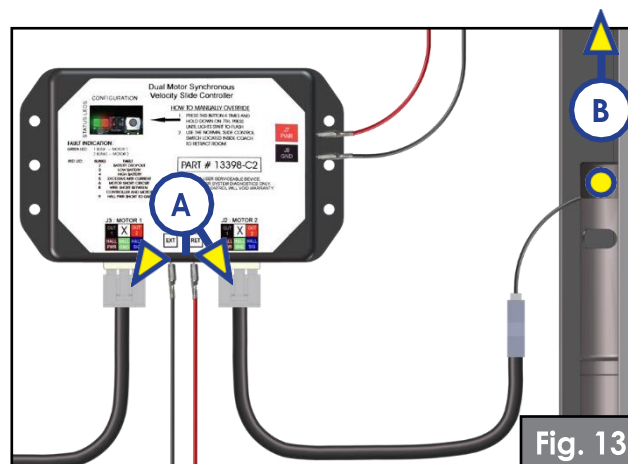


Fig. 13

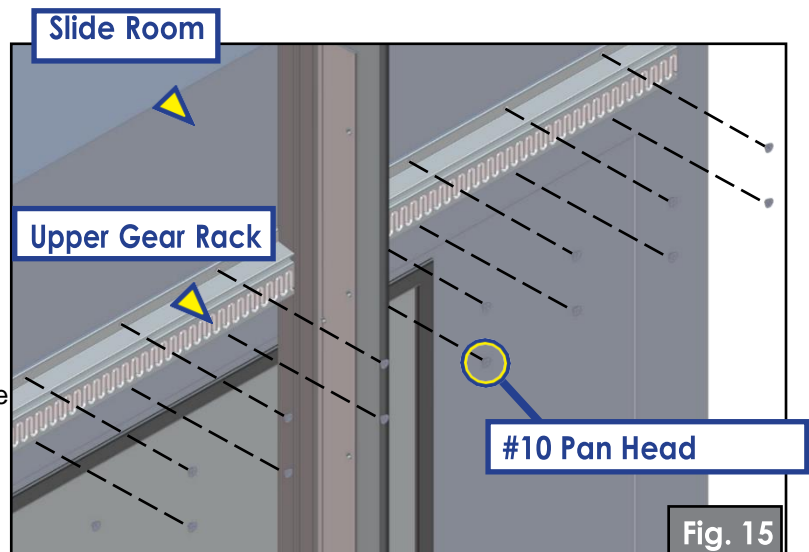
- B. Disconnect the motor harnesses from the IN-WALL® controller (Fig. 13A) to allow the slide room to be manually pushed into position.
- C. Disengage the motors to allow the slide room to be manually pushed into position (Fig. 13B).

1. Remove first three sets of screws in each rack on the interior side of slide room.
2. Extend the slide room until about 8" of the room is left inside the unit.
3. Support the slide room with a floor jack or other adequate support before continuing.
4. Place the 2x4 block on top of the slide room (standing on its edge between the T-molding and side of the unit).
5. Reach inside the top of the slide column to disconnect the wiring harness from the motor.
6. Using a razor knife, carefully cut the caulk bead along the edge of the slide column.
7. Remove the screws from the slide column attaching it to the side wall of the unit.
8. Create a jumper wire from an extra wiring harness: Cut a 3-foot length of the harness (with the motor wire connector attached) and strip the ends of the red and black wires (Fig. 14).
9. Plug the jumper wire into the motor wire.
10. Holding the black and red wires against the terminals of your cordless screw gun battery, determine which polarity actuates the motor in the retract direction. The slide column should slide away from the side of the unit.



Fig. 14

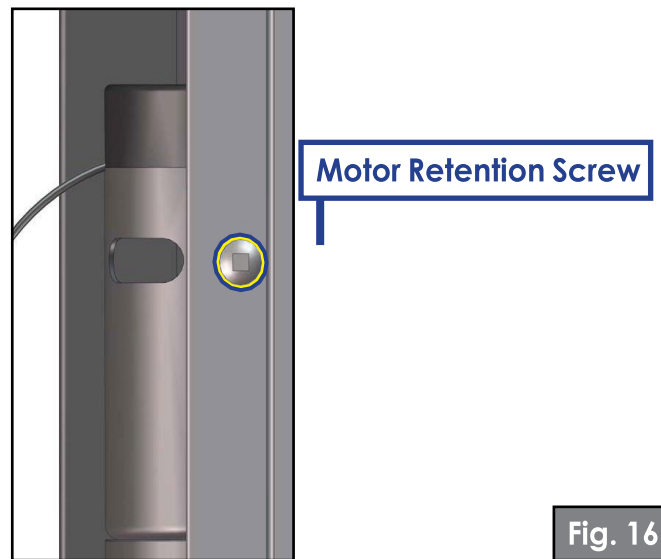
11. Remove all screws (Fig. 15) from the gear racks.
12. You may need to pry the gear racks away from the sides of the slide room with a flathead screwdriver or putty knife. Do this carefully so you don't damage the finish on the side of the slide room.
13. Carefully slide the ends of the gear racks past the bulb seal on the T-molding.
14. Pull the full system out and set aside.
15. If the motor is still in the column, remove at this time. The motor is held in place by a retention screw. It is typically located on the exterior side of the column, (Fig. 16). Removal of the retention screw (Fig. 16) will allow the motor to easily slide out of the column.



16. Remove the upper and lower racks from the column by grasping the column in one hand and sliding the racks toward your body.
 - a. Note: All racks will move together. Take necessary precautions to prevent damage to the racks from a possible drop to the ground.

Slide-out Installation Procedure:

1. Prepare the slide room and side of the unit for the new install by cleaning the surfaces of any adhesive residue using a putty knife and a solvent, being careful not to damage the finishes on the unit.
2. Prepare the new system for installation: measure the distance (center to center) from one gear rack to the next gear rack along the slide column. Write these measurements down.
3. Apply OEM recommended sealant to the entire length of the H-column along the inside edge where it will contact the side face of the unit.



Note: If installing a new assembly, remove the shipping angles before continuing this procedure.

4. Gently slip the system through the opening between the slide room and the side wall opening. Tuck the gear racks inside the bulb seal attached to the T-molding.

Note: There should be a small gap at the top and bottom of the Slide-out opening. If it is required to force the column into the opening, please contact Customer Service.

5. Align the bottom lip (alignment flange) of the lower gear rack with the bottom edge of the slide room (Fig. 17).
6. Push the bottom gear rack tight against the bottom of the slide room and put a screw into each end of the gear rack.

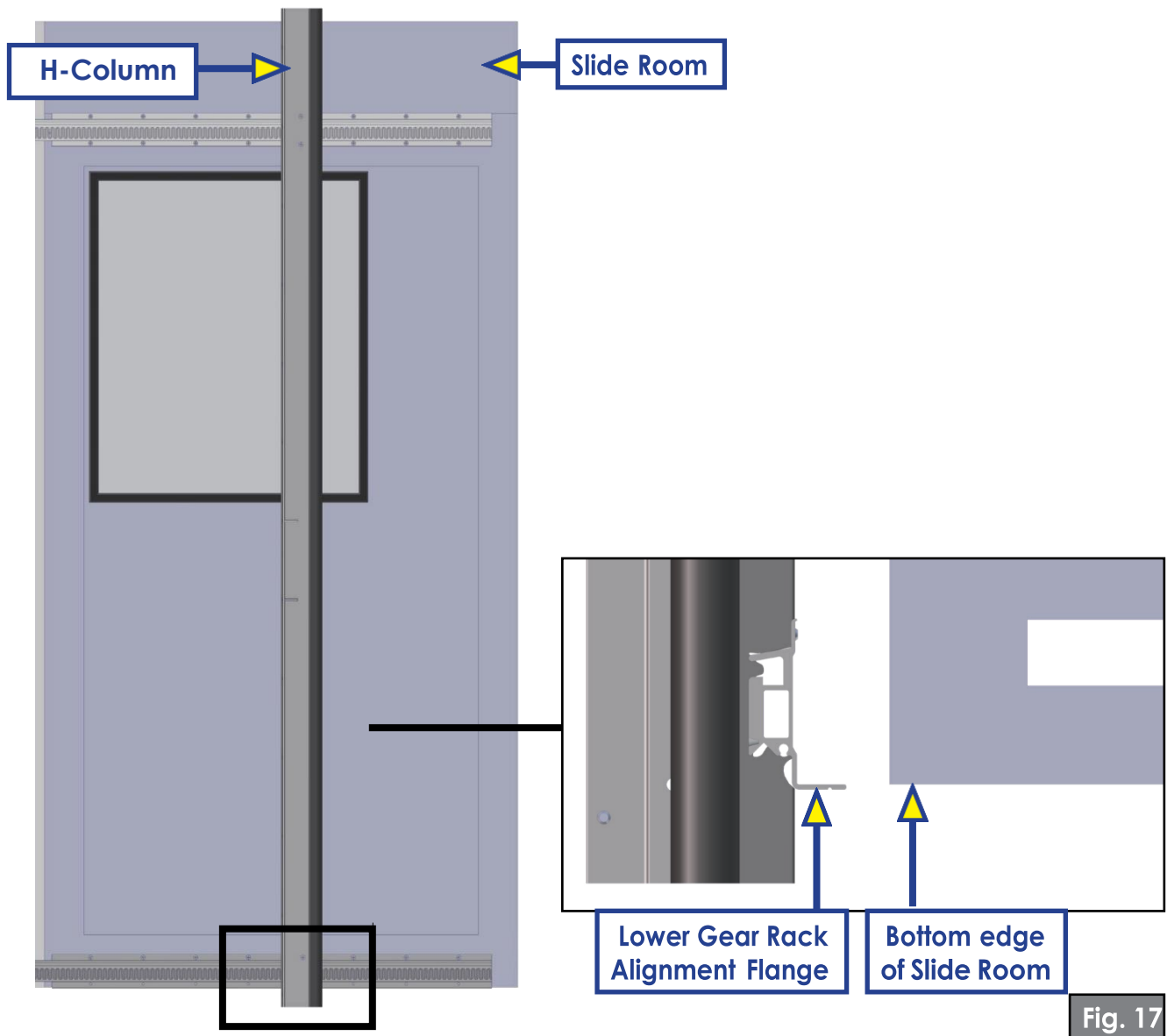


Fig. 17

7. Measure from the bottom gear rack (center to center) to the next gear rack and align that rack so that it matches the measurement you took off of the system during step 2. This will ensure that the racks are installed parallel and square. Put a screw in each end of the gear rack to hold it in place until you align all the gear racks.
8. Once you align and secure all the gear racks, put all the screws into the gear racks.
9. Attach the jumper wires to the motor in top of the slide column and then to the cordless screw gun battery. Actuate the motor to move the slide column in towards the unit. Stop the column when it is still a few inches away from the unit. Remove the jumper cable.
10. Make sure the motor cable is tucked into the top of the slide column.
11. Remove the 2x4 block.
12. Push the slide room in by hand until the slide column is flush with the side wall of the unit.
13. Screw the slide column into the side wall by placing a screw in the column by each rack and in the middle of the column to make sure the rack is straight, then fill in remaining screws (Fig. 18). Remove the floor jack.
14. From the inside of the unit, connect the wiring harness to the motor cable.
15. Repeat this process for the other side of the slide room (if required).
16. Once you have completed both sides of the slide room, synchronize the slide system motors.

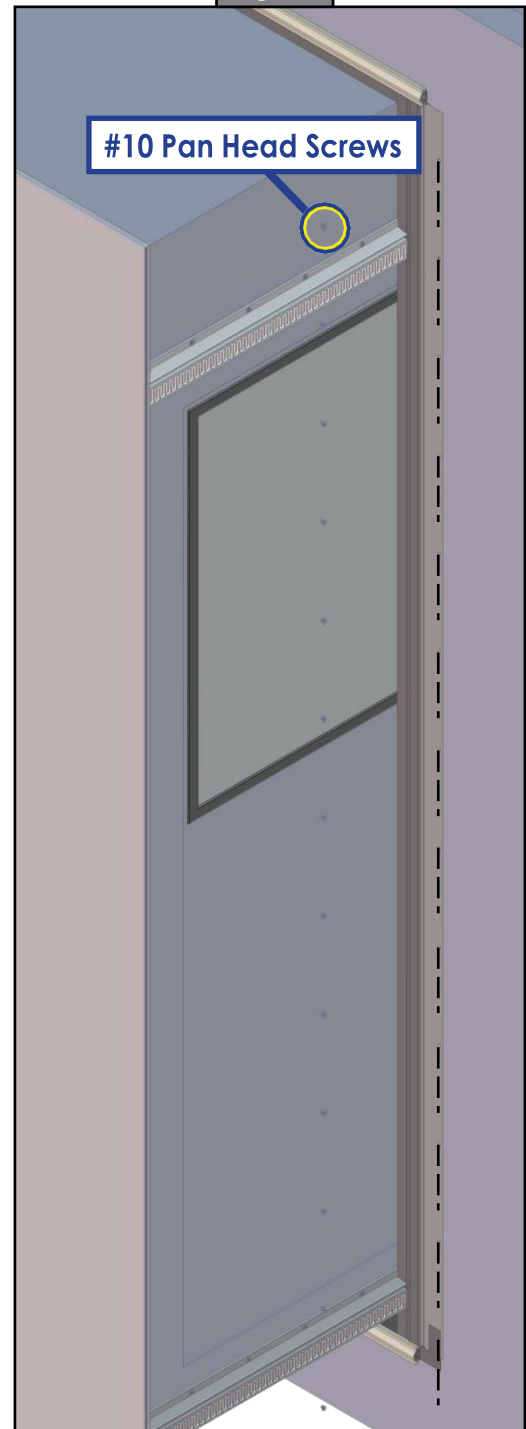
Fig. 18

Synchronizing The Slide-Out Motors

1. Fully extend the slide room using the switch. Keep the switch engaged until the motors shut down on their own.
2. Retract the room 1-2 inches.
3. Repeat steps 1 and 2 until both motors shut down at the same time. In many cases, two or three repetitions are necessary to re-sync the system.
4. Fully extend and then retract the room. Again, always let the motors shut down on their own before releasing the switch.

Complete Amp Draw Test

1. As completed in step 2 of the Inspection process, complete an Amp Draw Test to verify voltage.
 - a. With Voltage Meter connected:
 - i. Retract the Slide-out. Voltage should be approximately 3-4 amps
 - ii. Extend the Slide-out. Voltage should be approximately 5-6 amps.
- NOTE: Higher amperage may be an indicator that Slide-out may still be in a bind and/or have additional concerns.



Jayco's sole obligation under our limited warranty is to repair or replace defective materials and/or workmanship deemed our responsibility as determined by Jayco in our sole discretion. Jayco reserves the right to use new and/or remanufactured parts or materials of similar quality to complete any work, and to make parts and/or design changes as appropriate without notice to anyone. Jayco designs and/or materials changes are done without obligation to incorporate such changes in previously manufactured product. Jayco makes every reasonable effort to ensure field remedies will not adversely affect performance and/or safety of the unit. This field remedy is not intended to extend to future performance of this RV, or any of its materials, components or parts beyond the standard warranty period. The RV owner's obligation to notify Jayco, or one of its independent, authorized dealers, of a claimed defect does not modify any obligation placed on the RV owner to contact Jayco directly when attempting to pursue remedies under state or federal law. Jan. 2019.

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