

Dealer Service Bulletin

If after inspection, it is determined the assembly can be repaired, 184923-01-70A Slide Repair Parts Package may be used. This Repair Parts Package contains the following items and all must be used for a successful repair.

- 1 - Upper Gear Rack, float side (38 1/8" – cut to length as needed)
- 1 - Upper Gear Rack, fixed side (38 1/8" – cut to length as needed)
- 1 - Lower Gear Rack, float side (38 1/8" – cut to length as needed)
- 1 - Lower Gear Rack, fixed side (38 1/8" – cut to length as needed)
- 2 - Upper Bearing Block Castings
- 2 - Lower Bearing Block Castings
- 4 - V-Rollers
- 4 - Retainer/Snap-Rings for V-Rollers
- 4 - Plastic Shoes
- 2 - Foam Plugs
- 2 - Flat Gear-Rack Plugs
- 4 - Aluminum Rivets (fixed)
- 8 - Plastic Rivets (float)

Self-sealing screws are used for the slide mechanism installation and cannot be reused. Winnebago Industries recommends stocking these screws in your dealership inventory. The quantity of screws required for each installation may vary (20-50 per room). Each installation uses a combination of flat and pan head screws.

Clamp to Column Screws:

- 179110-01-02A - #10-16x3/4" Black Self-Sealing Flat Head Screws

Clamp to Sidewall Screws:

- 154938-10-02A - #12-14x1 1/4" Black Self-Sealing Pan Head Screws

Gear Rack to End Wall Screws (approximately 50 per room):

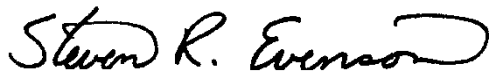
- 000G39-10-129 - #10-16x3/4" Silver Non-Sealing Pan Head Screws

Other repair parts available but not provided in this package include:

- Motor and Motor Mounting Parts
- Spur Gear
- Motor/Torque Shaft Coupler
- Wire Harness Assembly

Included with this document is the LCI In-Wall Slideout Repair Manual provided by Lippert Components.

This bulletin is for information only.



Steven R. Evenson
Director of Parts and Service

Schwintek InWall Slide Evaluation Worksheet

Complete worksheet and return to Winnebago Tech Service Dept.
Winnebago Tech Service Dept PH- 866-653-4329
Winnebago Tech Service Dept Fax-641-585-6704
Winnebago Tech Service E-mail: Techservice@wgo.net

Tech: _____ Dealer # _____

Serial # _____ Model _____

Slideout: L.F. _____ L.R. _____ R.R. _____ R.F. _____

Describe customer concern with slideout. _____

Before Repair:

1. Visually inspect for any gear rail and shoe damage (fig).

2. Measure gear rail parallelism. Measurements should be the same (fig 2).

3. Check & note any codes on slide control _____

Room installation measurements: (fig 4).

Measurements to be taken with slideout extended 3".
Measure from slideout end wall above gear rail to end of trim.

Left Upper _____ Right Upper _____

Left Lower _____ Right Lower _____

Extend slideout fully & retake measurements (fig 4).

Left Upper _____ Right Upper _____

Left Lower _____ Right Lower _____

Floor and roof measurements: Take measurements front to rear with slideout fully extended (fig 3).

Inboard roof measurement _____ m.m.

Outboard roof measurement _____ m.m.

Inboard floor measurement _____ m.m.

Outboard floor measurement _____ m.m.

Measure lower wipe seal clearance: (fig 5).

Front _____ m.m Center _____ m.m. Rear _____ m.m.

Roller Contact:

Pull down lower wipe seal (fig 6).

Does the front roller contact the slide floor? _____

Does the rear roller contact the slide floor? _____

After Repair measurements:

Room installation measurements (fig 4).

Measurements to be taken with slideout extended 3".

Measure from slideout end wall above gear rail to end of trim.

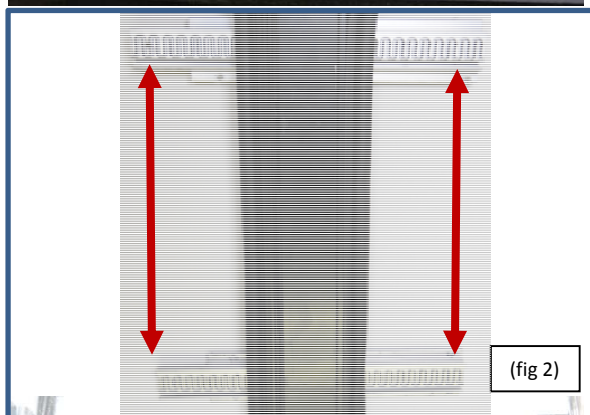
Left Upper _____ Right Upper _____

Left Lower _____ Right Lower _____

Extend slideout fully and retake measurements (fig 4).

Left Upper _____ Right Upper _____

Left Lower _____ Right Lower _____





IN-WALL™ SLIDE-OUT (WINNEBAGO)
REPAIR MANUAL

L I P P E R T
C O M P O N E N T S®

TABLE OF CONTENTS

Safety Information	2
Introduction	2
Preliminary Visual Inspection	3
Assembly Removal Procedure	4
Tools Required	4
Procedure	4
Replacement of Entire Assembly Required	6
IN-WALL™ Gear Racks	7
Inspection	7
Replacement	7
Shoe	8
Inspection	8
Replacement	8
V-Roller	9
Inspection	9
Replacement	9
Bearing Block/Spur Gear	10
Inspection	10
Replacement	10
Re-Timing Procedure	11
Assembly Installation Procedure	12
Synchronizing the Slide-Out Motors	13
Repair Packages Part Numbers	14
Standard (W/ Winnebago Notch)	14
Bearing Block Repair Package - 379060	14
Notes	15

Safety Information



Failure to act in accordance with the following may result in death, serious injury, coach or property damage.

The IN-WALL™ Slide-out System is intended for the sole purpose of extending and retracting the slide-out room. Its function should not be used for any purpose or reason other than to actuate the slide-out room. To use the system for any reason other than what it is designed for may result in death, serious injury or damage to the coach.

Before actuating the system, please keep these things in mind:

1. The unit should be parked on solid and level ground and the area around the unit clear of obstructions that may cause damage when the slide-out room is being repaired.
2. Be sure all persons are clear of the coach prior to the slide-out room maintenance.
3. Keep hands and other body parts away from slide-out mechanisms during actuation.

Introduction

This document will aid in determining whether it is necessary for the assembly to be repaired or replaced entirely.

Standard Repair Package Includes:

Upper Gear Rack (38 1/8")
 Lower Gear Rack (38 1/8")
 V-Roller (292801)
 Snap Ring (234180)
 Shoe (238463)
 Foam Wear Plug (283544)
 Flat Back Rack Plug (282573)

Bearing Block Package Includes:

Lower Bearing Block
 Upper Bearing Block
 (2) Aluminium Rivets
 (4) Plastic Rivets

NOT INCLUDED:

Coupler
 Spur Gear (300:1/ 500:1)

If the repair necessitates it, replacement spur gears, and couplers can be ordered separately.

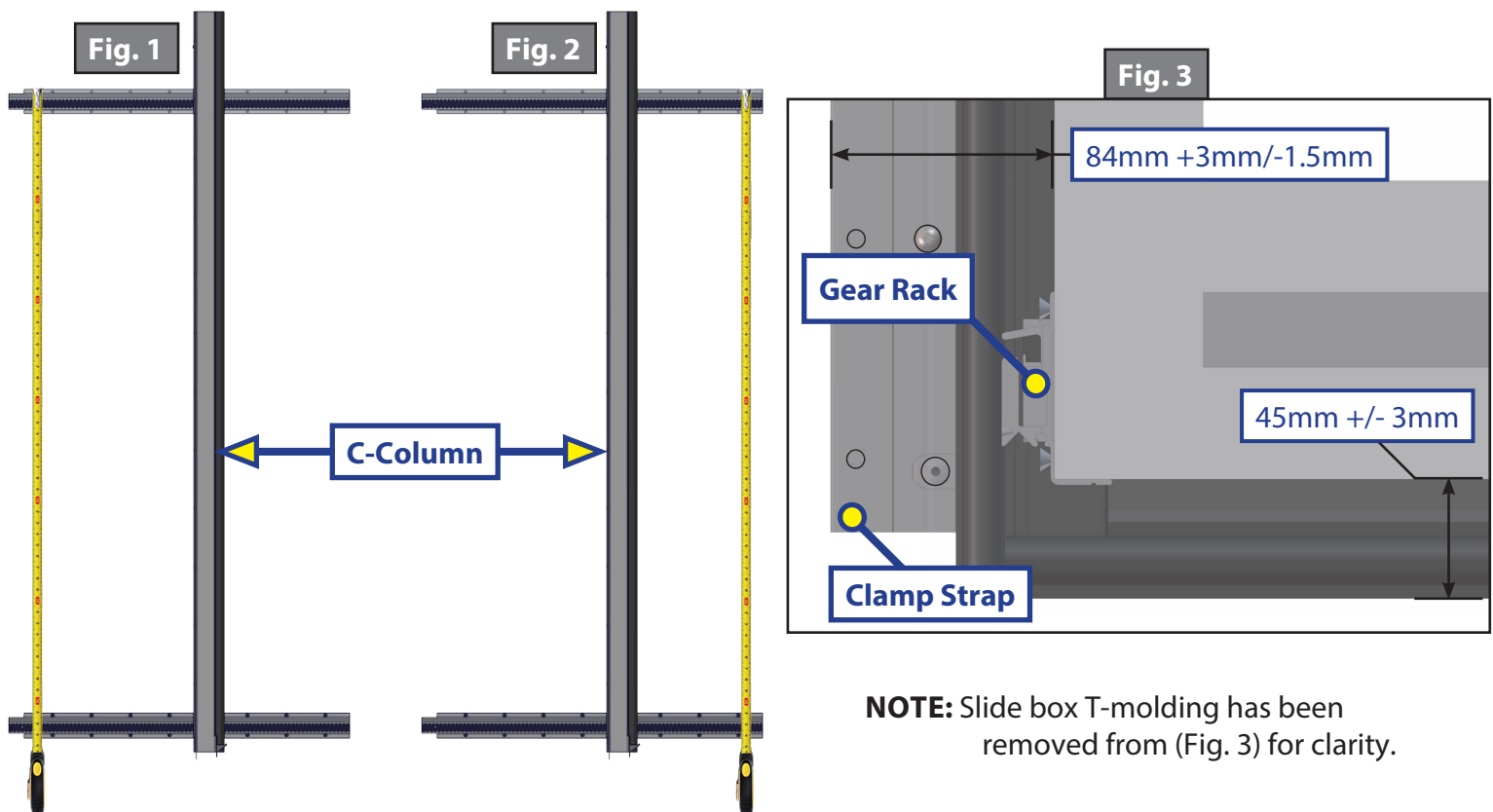
NOTE: See page 14 for more details and part numbers.

Preliminary Visual Inspection

Prior to conducting any repair or replacement, it is imperative to ensure that the problem with the slide-out is properly diagnosed and that the issue will be corrected with a repair or replacement. Proper diagnosis of the issue includes ruling out a slide-out obstruction, a slide-out seal issue, or a slide-out measurement that is outside of suggested parameters. Prior to slide-out repair or replacement, be sure to check the following:

1. Check assembly and slide room for any type of obstruction that may have caused the initial concern.
2. Inspect the wiper seals for tearing or other damage.
3. Make sure that the wiper seals are not being pulled into the gear rack causing binding.
4. Check that the interior and exterior bulb seals are compressing properly when the slide-out is extended or retracted.
5. It is recommended that measurements be taken to make sure the gear racks are parallel and that the C-Column is square. Make sure the measurements are taken from the same location at both ends of the gear racks (Figs. 1 and 2).
6. Measure from the outside edge of the clamp strap to the face of the slide room wall. Variance could be up to +3mm or -1.5mm (Fig. 3).

NOTE: LCI prefers to have these measurements submitted in picture format to assure proper guidance is given.



NOTE: Slide box T-molding has been removed from (Fig. 3) for clarity.

Assembly Removal Procedure

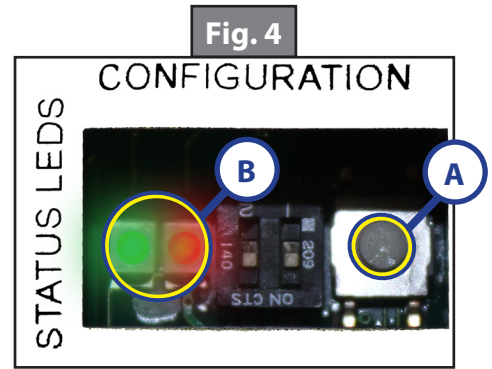
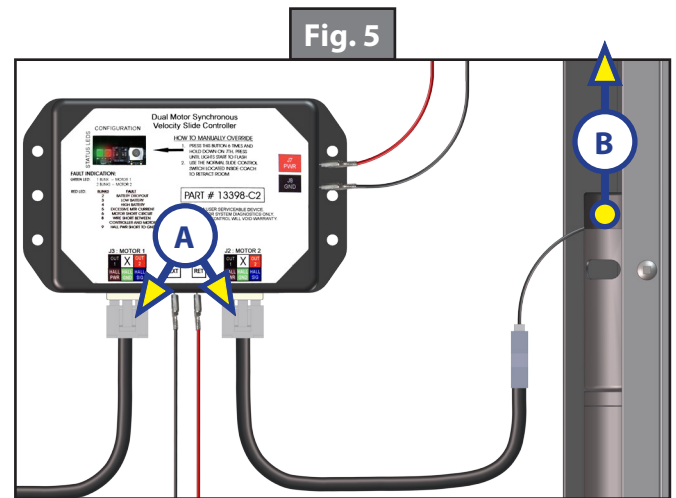
Tools Required

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

Procedure

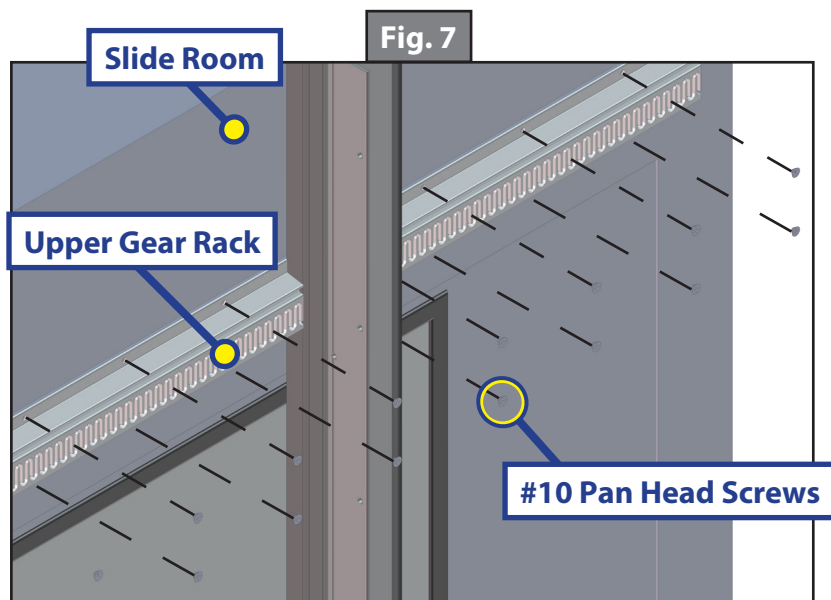
NOTE: If the slide will not move by use of the switch it may be necessary to use one of the three methods (A, B or C) below:

- A.** Use electronic override mode on the IN-WALL™ controller.
 - I.** Press the "mode button" six times quickly, press a 7th time and hold for approximately 5 seconds (Fig. 4A).
 - II.** The red and green LED lights will begin to flash indicating system is in override mode (Fig. 4B).
 - III.** Using the wall switch, press and hold the "IN" button until the unit comes completely in.
 - B.** Disconnect the motor harnesses from the IN-WALL™ controller to allow the slide room to be manually pushed into position (Fig. 5A).
 - C.** Disengage the motors to allow the slide room to be manually pushed into position (Fig. 5B).
- 1.** Remove first 3 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 screw 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 plastic screw cover to access the mounting screws for the clamp strap. Remove the clamp strap.
 - 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. 6).
 - 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.



11. Remove all screws from the gear racks (Fig. 7).

NOTE: 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.



12. Carefully slide the ends of the gear racks past the bulb seal on the T-molding.

13. Pull the full system out and set aside.

NOTE: LCI recommends that inspection and repair of the assembly be done on a clear workbench to prevent further damage to the system.

14. If motor is still in the column, remove at this time. By removing the clamp strap previously, the motor should be free to move in the column.

Replacement of Entire Assembly Required

Damages listed below will require the inspected system to be replaced with a completely new assembly.

- A.** Torque Shaft – Inspect the torque shaft for a bow or bend. Also inspect the torque shaft to assure that it has not dropped. Also make sure the stakes in the top of the torque shaft (Fig. 8) are adequately keeping the shaft in place. If the torque shaft is found to be faulty, the inspected system should be replaced entirely.
- B.** Gibs (Fig. 8A)– In the event that a gib is found to be broken or loose, the inspected system should be replaced entirely. This includes a broken, loose, or missing rivet.
- C.** Metal shavings near the spur gear – During inspection of the bearing block it is important to look for shavings around the spur gear (See locations outlined in Fig. 9A, B, C). This could indicate excessive wear around the torque shaft caused by the spur gear digging into the torque shaft.
- D.** “C” Column – In the rare event that the column has been damaged in any way, the inspected system should be replaced entirely.

NOTE: If replacing the entire assembly, skip to the Assembly Installation Procedure on page 12.

Fig. 8

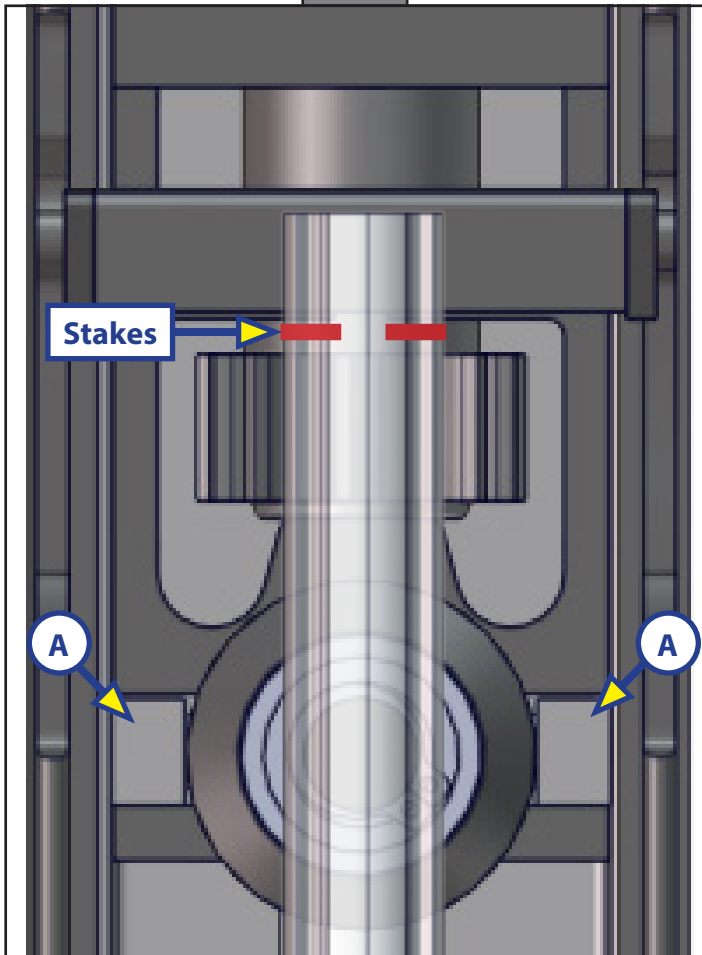
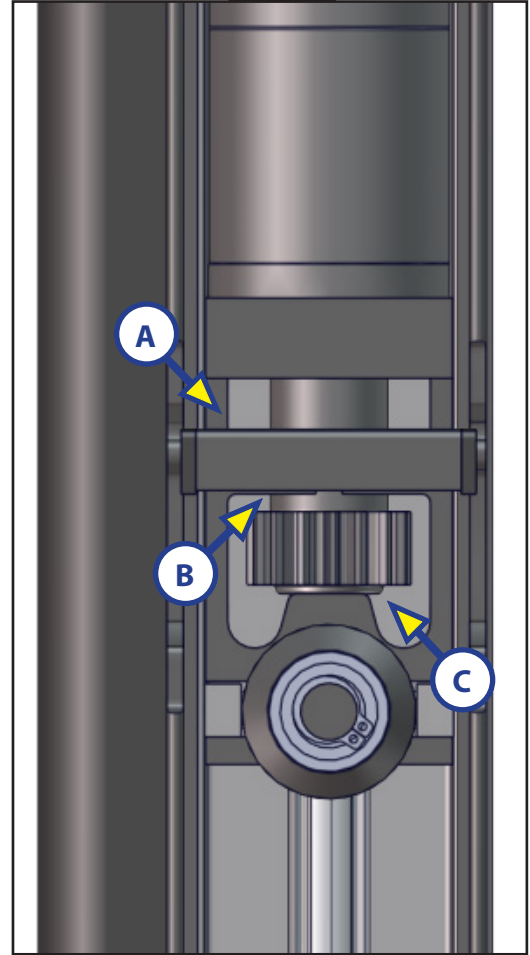


Fig. 9



IN-WALL™ Gear Racks

Inspection

It will be important to begin with a general inspection of the gear rack to see if replacement is recommended.

Replacement

Below are the steps to replace an IN-WALL™ Gear Rack:

NOTE: You will notice that included in the IN-WALL™ Repair Package is an upper and lower gear rack section that is longer than needed. In this case, a cut will be required to match the size of the original gear rack.

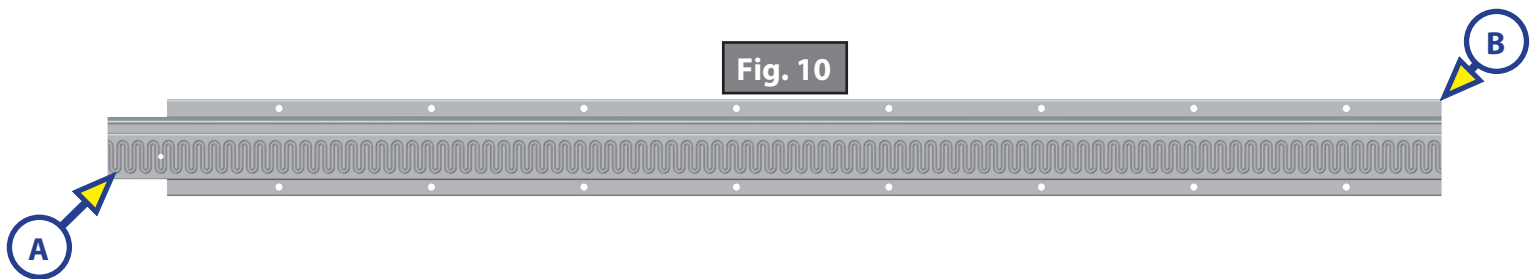
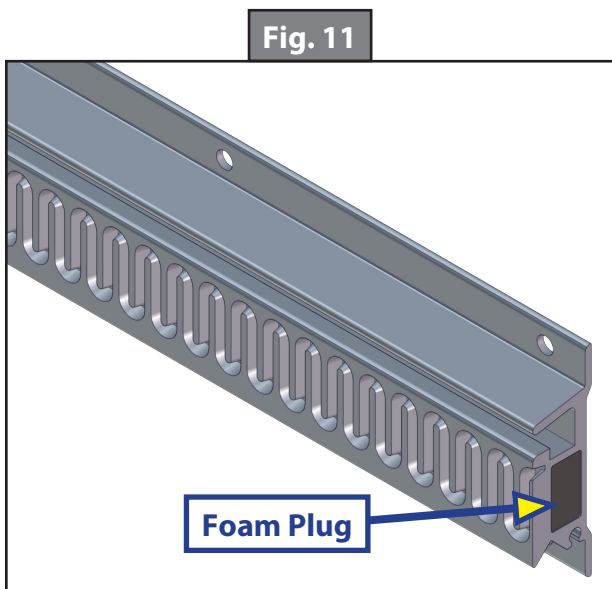
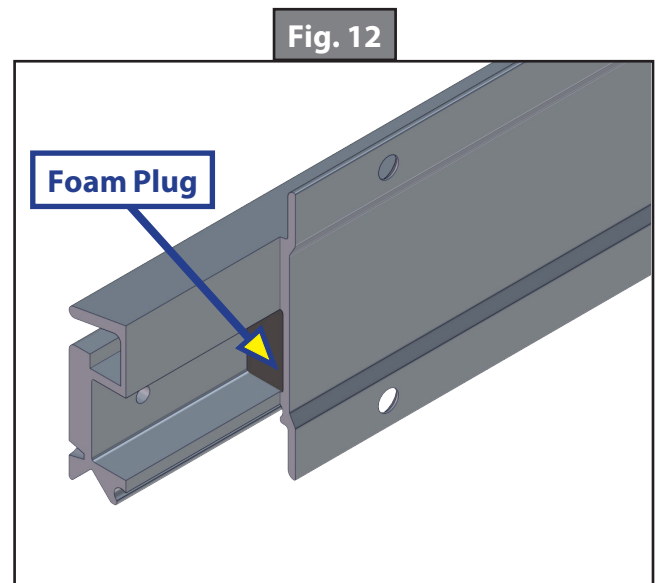
1. Measure the original gear rack, index your measurement from the “notched” end (Fig. 10A) of the gear rack and document accordingly.
2. Transfer the measurement taken from the original gear rack onto the new gear rack.

NOTE: Remember to start your measurement from the “notched” end (Fig. 10A) of the gear rack to ensure proper end of the gear rack is cut.

3. Check measurement prior to cutting.
4. Make the cut to the non-notched end of the rack (Fig. 10B), preferably with a chop saw to prevent angled cut or “chewed” appearance.
5. De-burr the cut end with a fine file or emery paper.
6. Insert the corresponding foam plugs into each end of the rack to ensure that water infiltration is prevented prior to installation (Fig. 11 and Fig. 12).
7. Gear racks can now be installed back into the columns.

NOTE: Please refer to the **Re-timing Procedure** section of this manual on page 11.

8. If all other concerns have been addressed, assembly can now be installed back on the unit. See Assembly Installation Procedure on page 12.



Shoe

Inspection

- A.** Damaged or missing shoe: If damage to corresponding foot on bearing block is present, replacement of the bearing block (Page 10) will be necessary.

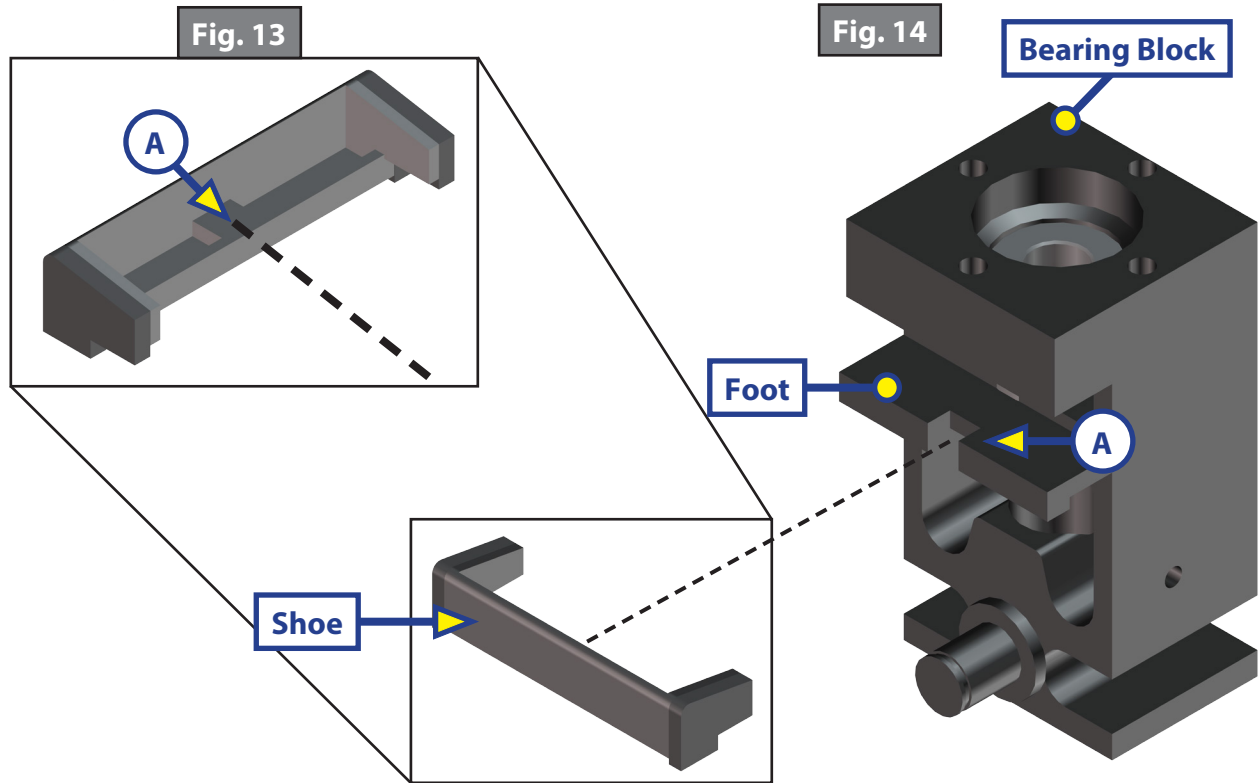
Replacement

Below are the steps to replace a shoe (Figs. 13 and 14):

1. With the racks removed from the assembly, the shoe replacement is snapped onto the bearing block foot. Align the notch located on the foot (Fig. 14A) with the "rib" in the shoe (Fig. 13A) and press into place.
2. Gear racks can now be installed back into the columns.

NOTE: Please refer to the **Re-timing Procedure** section of this manual on page 11.

3. If all other concerns have been addressed, the assembly can now be installed back onto the unit. See Assembly Installation Procedure on page 12.



NOTE: On certain systems, the bearing block will not have a notch in it for the tab on the new shoe (Fig. 13A) to properly fit. If this is the case, the bearing blocks will also need to be replaced. See page 14 for bearing block package information.

V-Roller

Inspection

- A. Damaged or missing v-roller: If damage to corresponding v-roller arm on bearing block is present, replacement of the bearing block (Page 10) will be necessary.
- B. Stress cracks on or around the v-roller arm: If the v-roller arm is found to be cracked, bent or unable to accept a replacement v-roller, replacement of the bearing block will be necessary.

NOTE: If damage is evident on either bearing block, **BOTH** the upper and lower bearing blocks **MUST** be replaced.

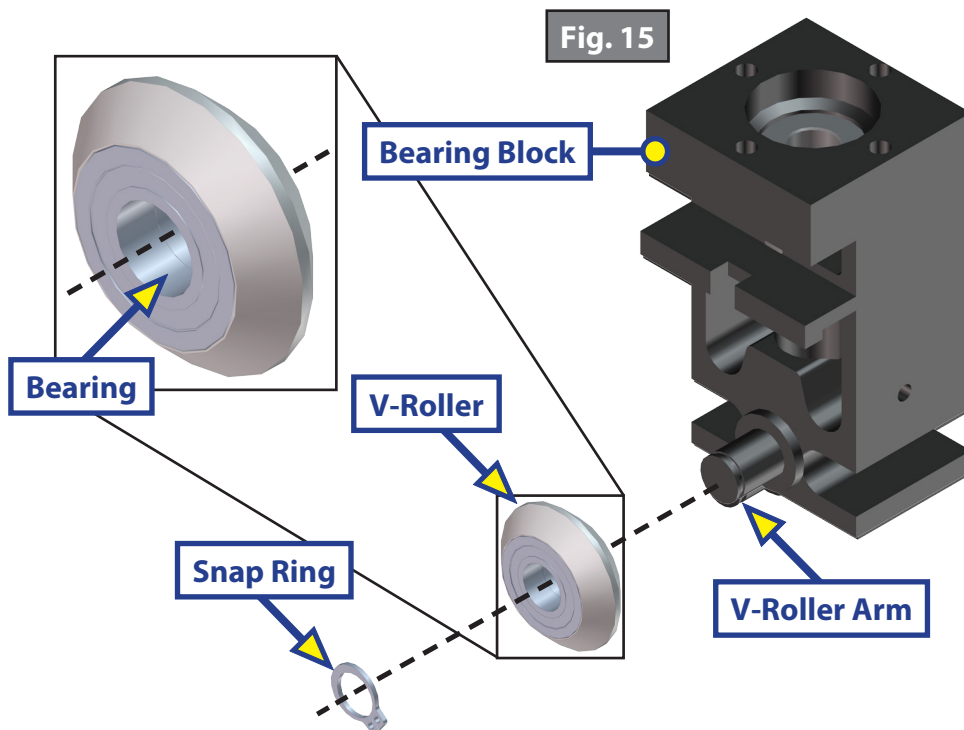
Replacement

Below are the steps to replace a v-roller (Fig. 15):

1. Remove the corresponding snap ring to allow for removal of damaged v-roller.
2. Inspect v-roller arm for damage. If v-roller arm is damaged, see **bearing block replacement** instructions on page 10.
3. Slide new v-roller onto the v-roller arm.
4. Replace the snap ring (be careful not to spread the snap ring open too far) and inspect for proper seating.
5. Lube the v-roller bearings with CRC Power Lube with PTFE (Fig. 15 detail).
6. Gear racks can now be installed back into the columns.

NOTE: Please refer to the **Re-timing Procedure** section of this manual on page 11.

7. If all other concerns have been addressed, the assembly can now be installed back onto the unit. See Assembly Installation Procedure on page 12.



Bearing Block/Spur Gear

NOTE: The bearing blocks do not need to be removed if only the spur gears are being replaced.

Inspection

- A. Stress cracks on or around the bearing block foot or v-roller arm: If the bearing block foot is found to be cracked or bent, replacement of the bearing block will be necessary.
- B. Excessive damage to spur gear (teeth missing, etc).

Replacement

Below are the steps to replace a bearing block or a spur gear (Figs. 16, 17, 18):

1. If the bearing block shows any type of damage that indicates repeated contact with the gear rack, it **MUST** be completely removed from the drive assembly and replaced. If damage is evident on either bearing block, **BOTH** the upper and lower bearing blocks **MUST** be replaced.
2. Pull the torque shaft up and out from the top of the column, through both bearing blocks. Be careful not to drop the spur gears if they are not being replaced, as they will be loose in the assembly once the torque shaft is removed.

NOTE: If only replacing the spur gears, place the new spur gears into the bearing blocks with the standoff of each spur gear oriented to the bottom (otherwise bearing block damage will occur) (Figs. 19A/20A). Reinsert the torque shaft from the top of the column back through both bearing blocks and spur gears. Skip to step 6.

3. Remove the rivets that hold the bearing block in place. These rivets may be made out of aluminum (Fig. 17) or plastic (Fig. 18) depending on the side being replaced. Remove the bearing blocks.
4. Install the replacement upper and lower bearing blocks and spur gears on the torque shaft and reinstall the torque shaft assembly into the column. Install new rivets into the bearing blocks.
5. Install shoe and v-roller onto the bearing block assembly after the column is reassembled.
6. Reinstall the gear racks.
7. Reinsert the coupler and motor into the upper bearing block.

NOTE: Please refer to the **Re-timing Procedure** section of this manual on page 11.

8. If all other concerns have been addressed, the assembly can now be installed back onto the unit. See Assembly Installation Procedure on page 12.

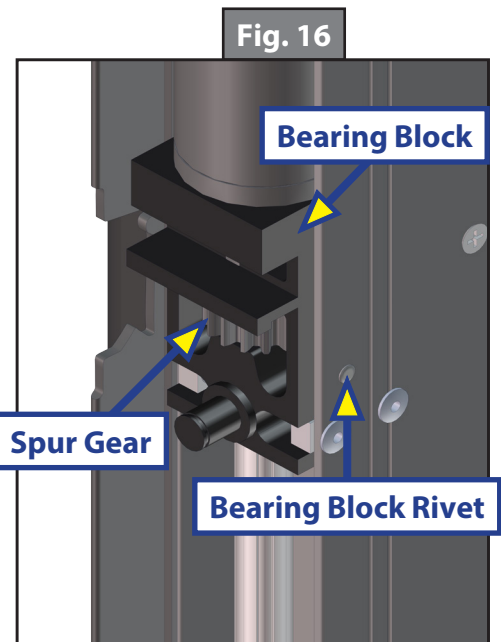
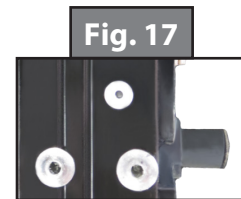
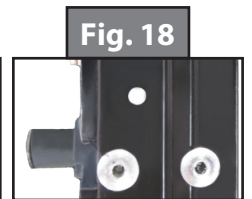


Fig. 19 - 300:1

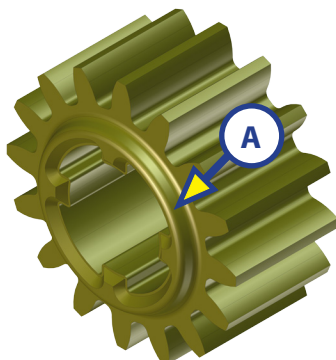
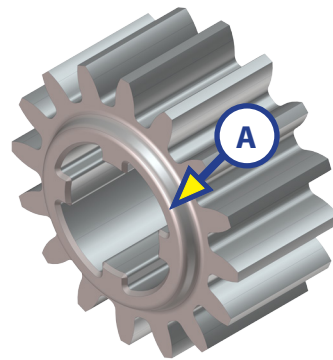


Fig. 20 - 500:1



Re-Timing Procedure

The top and bottom gear racks on each side of the IN-WALL™ Slide-out System are connected by a torque shaft that runs from the upper bearing block to the lower bearing block. The bearing blocks and torque shaft are mounted inside of the column. The column is fastened to the side wall opening of the unit. The timing of the system from top to bottom is considered to be adjustment free, as it is essentially locked in correct time. In the instance that the system is no longer in time, either the top or the bottom will extend farther than its opposite. The following procedure will help to properly address the concern:

NOTE: If the assembly is still on the slide room, refer to the **Assembly Removal Procedure** on page 4. If the assembly is already off the slide room for repair, start at step 1 below.

NOTE: If the system is no longer in time, inspection of all items will need to be performed prior to proceeding with the re-timing procedure.

NOTE: The re-timing process is made easier by taking the system to a work bench.

1. Pull one of the gear racks to remove it from the bearing block.

NOTE: Both gear racks will move. Be sure when removing the gear racks that they do not fall to the floor or sustain any damage.

2. Finish pulling the second gear rack free if necessary.
3. When feeding the gear racks back in, start from the notched side. Gently start the gear racks into the bearing blocks evenly.
4. Once both gear racks are engaged, use a tape measure and measure from the column to the end of each gear rack. The measurement must be the same to ensure that the slide room will be timed correctly.
5. Apply pressure to one of the gear racks. This will cause both gear racks to move together. At this point, the gear racks will be back in time.



When reinstalling the system to the slide room, be sure to address the measurements specified in the Preliminary Visual Inspection section on page 3. If measurements are not within these specifications, make necessary adjustments to screw locations to remedy. Adding additional screws may be necessary in between the pre-drilled spots on the column. If the system is not replaced within those stated specifications, serious damage to the system may occur.

6. If the above procedure corrects the timing, repeat the same process on the opposite side of the slide, if necessary.

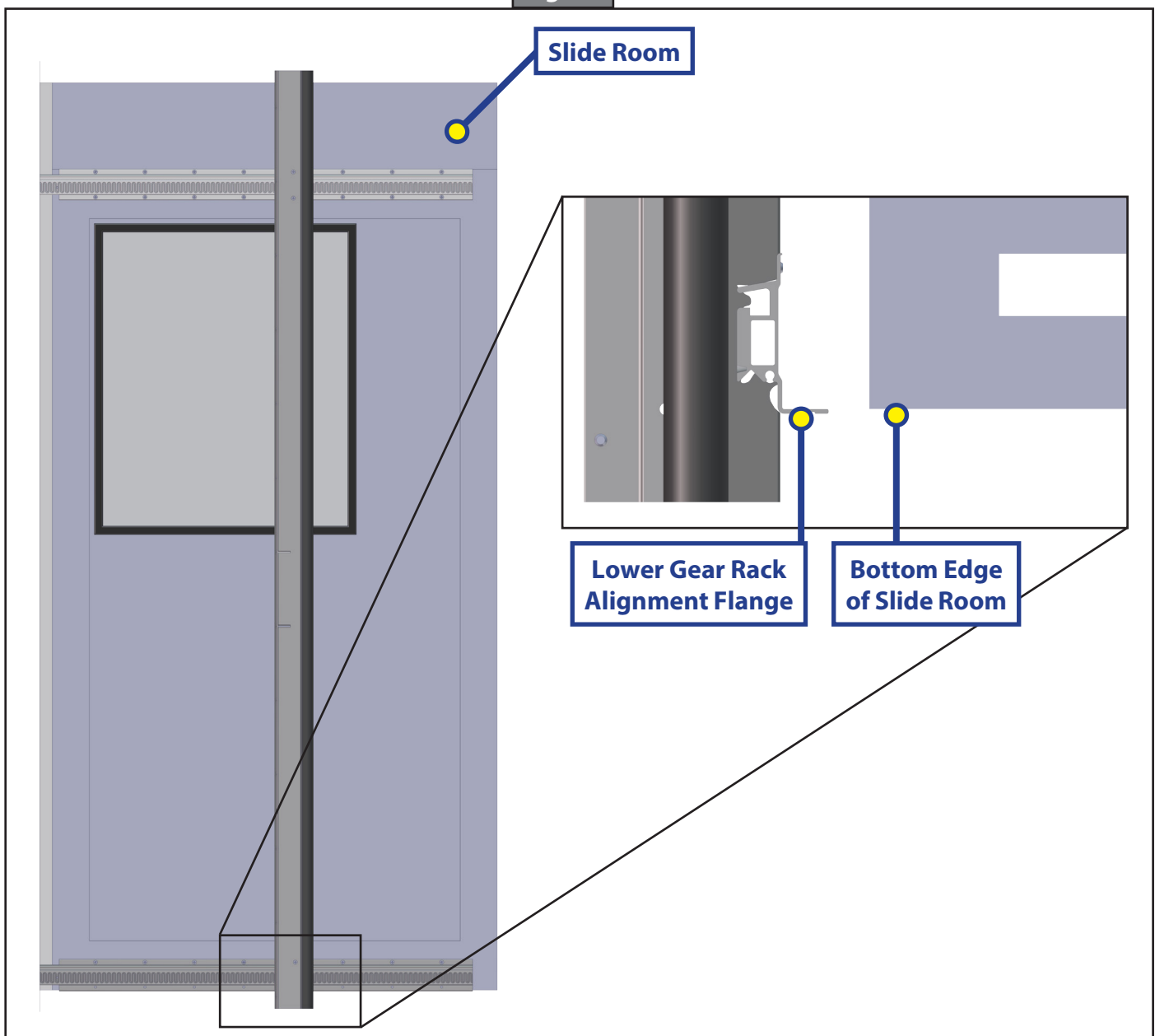
Assembly Installation Procedure

1. Prepare the slide room and side of unit for the new install by cleaning the surfaces of any adhesive residue using a putty knife and a solvent. Be 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. Install all the screws attaching the clamp strap to the C-column.

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.
5. Align the bottom lip of the lower gear rack with the bottom edge of the slide room (Fig. 21).
6. Push the bottom gear rack tight against the bottom of the slide room, assuring that the non-notched end of the gear rack is butted up flush against the interior trim of the slide room. Put a screw into each end of the gear rack.

Fig. 21



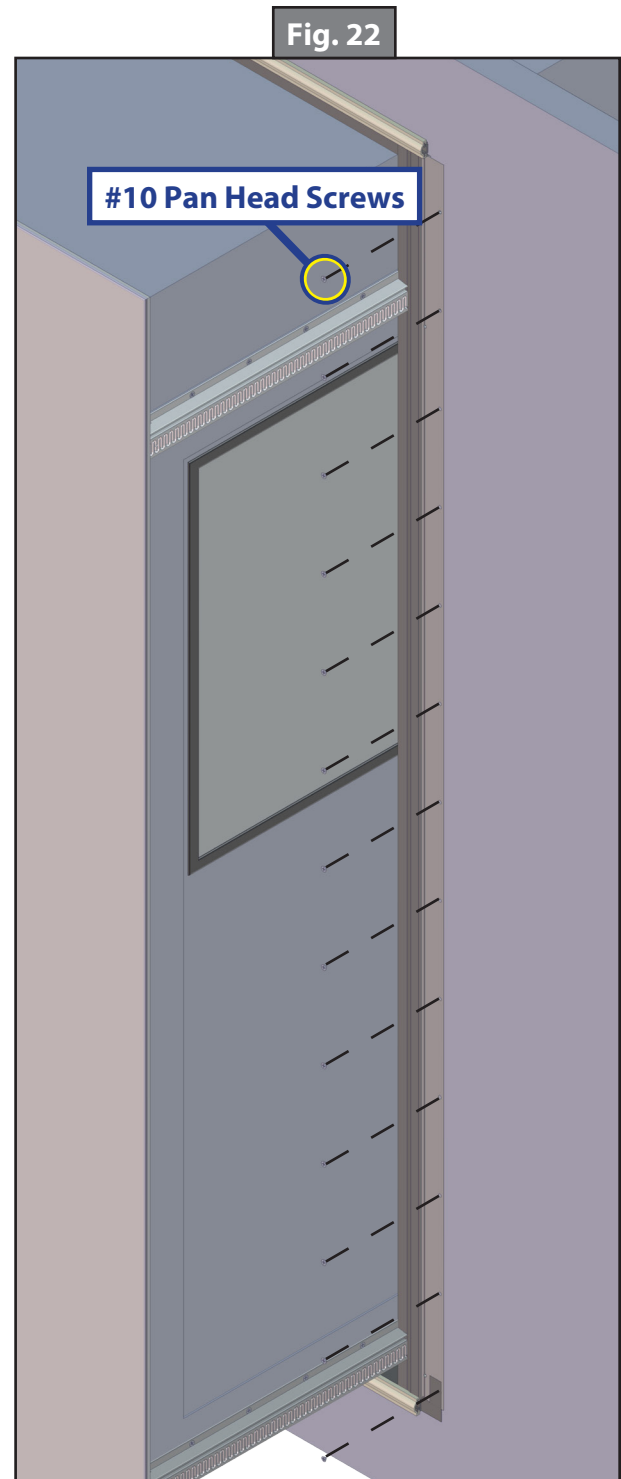
7. Measure from the bottom gear rack (center to center) to the next gear rack and align that rack so that it matches the measurement taken off of the system during step 2 (Page 12). This will ensure that the racks are installed parallel and square. Put a screw in each end of the gear rack to hold it in place until all the gear racks are aligned.
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 the top of the slide column and then to the cordless screw gun battery. Actuate the motor to move the slide column in towards the coach. Stop it 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 clamp strap is flush with the side wall of the coach.

NOTE: Adjustment to the screw jack may be necessary to assure the clamp strap is parallel to the sidewall of the coach.

13. Screw the clamp strap into the side wall by placing a screw in the strap by each rack and in the middle of the strap to ensure the rack is straight. Fill in remaining screws (Fig. 22). Remove the screw jack.
14. From the inside of the coach, connect the wiring harness to the motor cable.
15. Repeat this process for the other side of the slide room.
16. Once you have completed both sides of the slide room, synchronize the slide system motors (See procedure below).

Synchronizing the Slide-Out Motors

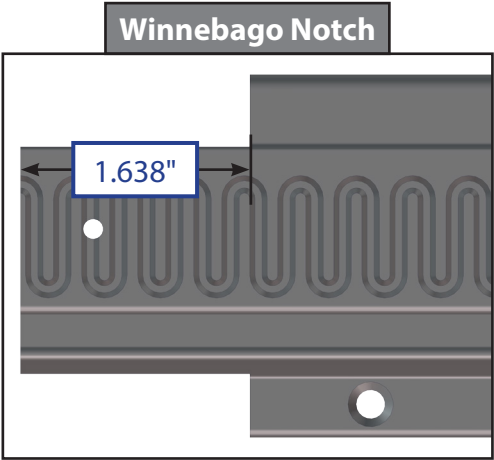
1. Fully extend the slide room using the switch. Keep the switch engaged until the motors shut down on their own.
2. Retract the room 1-2 inches.
3. Repeat steps 1 and 2 until both motors shut down at the same time. In many cases, two or three repetitions are necessary to re-sync the system.
4. Fully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



Repair Packages Part Numbers

Standard (W/ Winnebago Notch)

Clear Part #	Black Part #	Description
379185	379187	Winnebago Fixed Repair Package
379186	379188	Winnebago Float Repair Package



Bearing Block Repair Package - 379060

If the bearing blocks need to be replaced, a repair package that includes one upper and one lower bearing block, four plastic rivets, and 2 aluminum rivets is available. The part number for that package is 379060.

Bearing Block Repair Package	
Package #	Description
379060	Bearing Block Package with Rivets

Notes

[illegible]



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