

SLIDE-OUTS

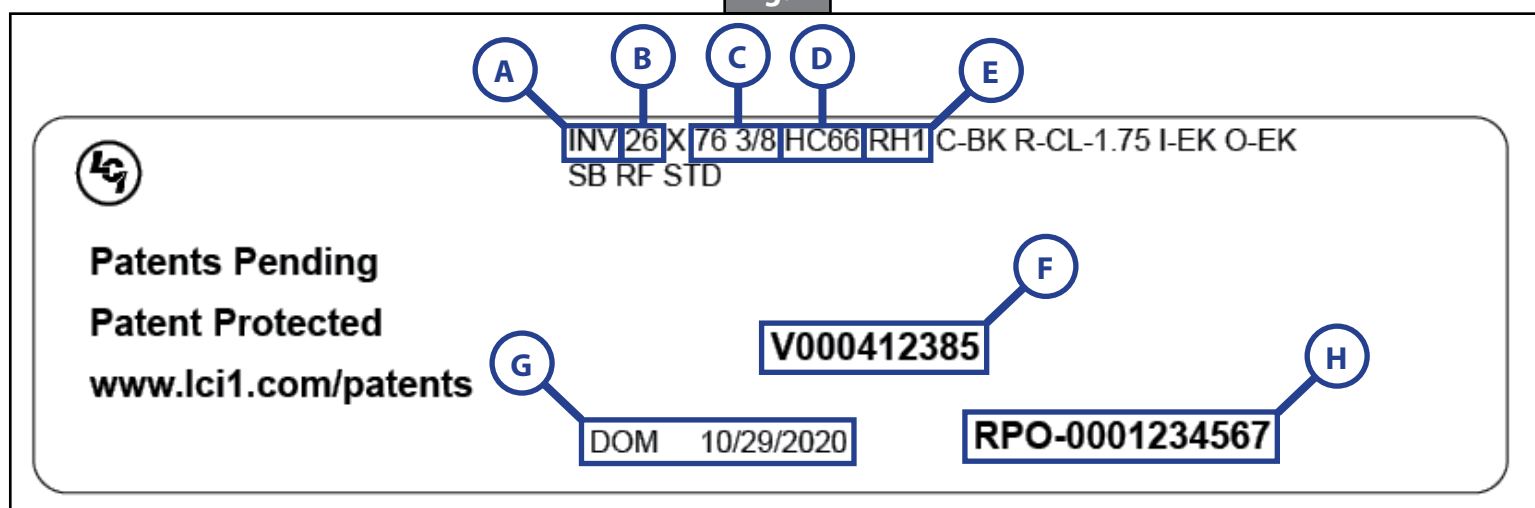
Purpose

This document identifies the key differences between inverted and standard In-Wall slide-out systems, and outlines the metrics which must match between the systems to enable the replacement of one with the other.

This document contains information in addition to the already established In-Wall Slide servicing and replacement procedures documented in other Lippert manuals and videos.

Variant Sticker Tag Anatomy

Fig. 1



Callout	Name	Description
A	System type	The type of system, abbreviated. INV is inverted and STD is standard. Other abbreviations may be present, but must also include either STD or INV to denote the system's type.
B	Gear rack length	The length of the gear racks on the system in inches.
C	Column height	The height of the columns on the system in inches.
D	Hole Center	Abbreviated HC. The distance between the gear racks in inches.
E	Roller height	Abbreviated RH. The distance between the bottom of the slide room and the room cutout in inches.
F	Variant number	The part number of the system used for ordering. Often called a "V" number.
G	Date of manufacture	Abbreviated DOM. The date the system was manufactured.
H	RPO number	Unique manufacturing part number for a run of systems. One V number could have several RPOs.

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Preparation

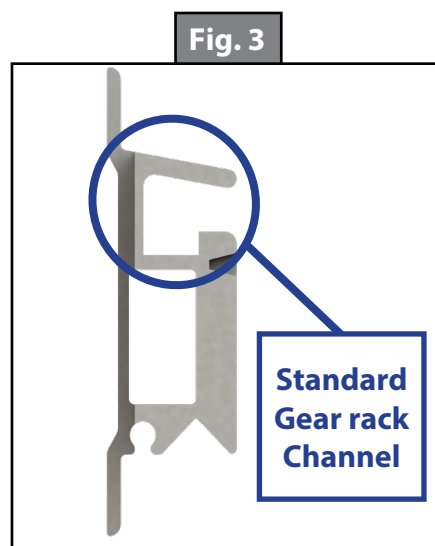
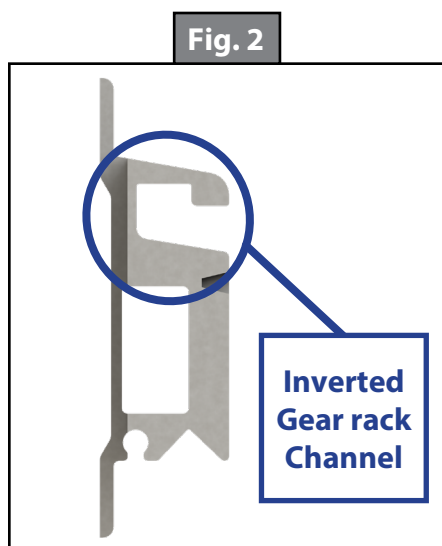
When replacing an inverted gear rack in-wall system with a standard gear rack system, Lippert Service and Warranty uses a conversion matrix that cross references the old, inverted V number (Fig. 1F) to a new, standard gear rack version V number that is shipped as a replacement. There are 4 critical measurement values that need to match exactly between the replacement and original system; gear rack length (Fig. 1B), column height (Fig. 1C), hole center (Fig. 1D), and roller height (Fig. 1E). These are most often the first 4 numerical values listed in the part description on the Lippert variant sticker tag after the system type abbreviation (Fig. 1A). Make sure all 4 of these values match EXACTLY on the white Lippert variant sticker tags on the original inverted system and the new standard system once received. Matching all 4 values is critically important to properly replacing the system.

After confirming that the values on both variant stickers match, check the physical dimensions on the slide system corresponding to each value (gear rack length, column height, hole center, and roller height.) The values on the variant sticker tag should equal the corresponding physical measurements taken.

Visual Inspection and Measuring

Gear Rack Comparison

Inspect the gear racks on each system to verify that they are the correct type. The gear racks on the system being replaced should be inverted (Fig. 2), and the ones on the replacement system being installed should be standard (Fig. 3).



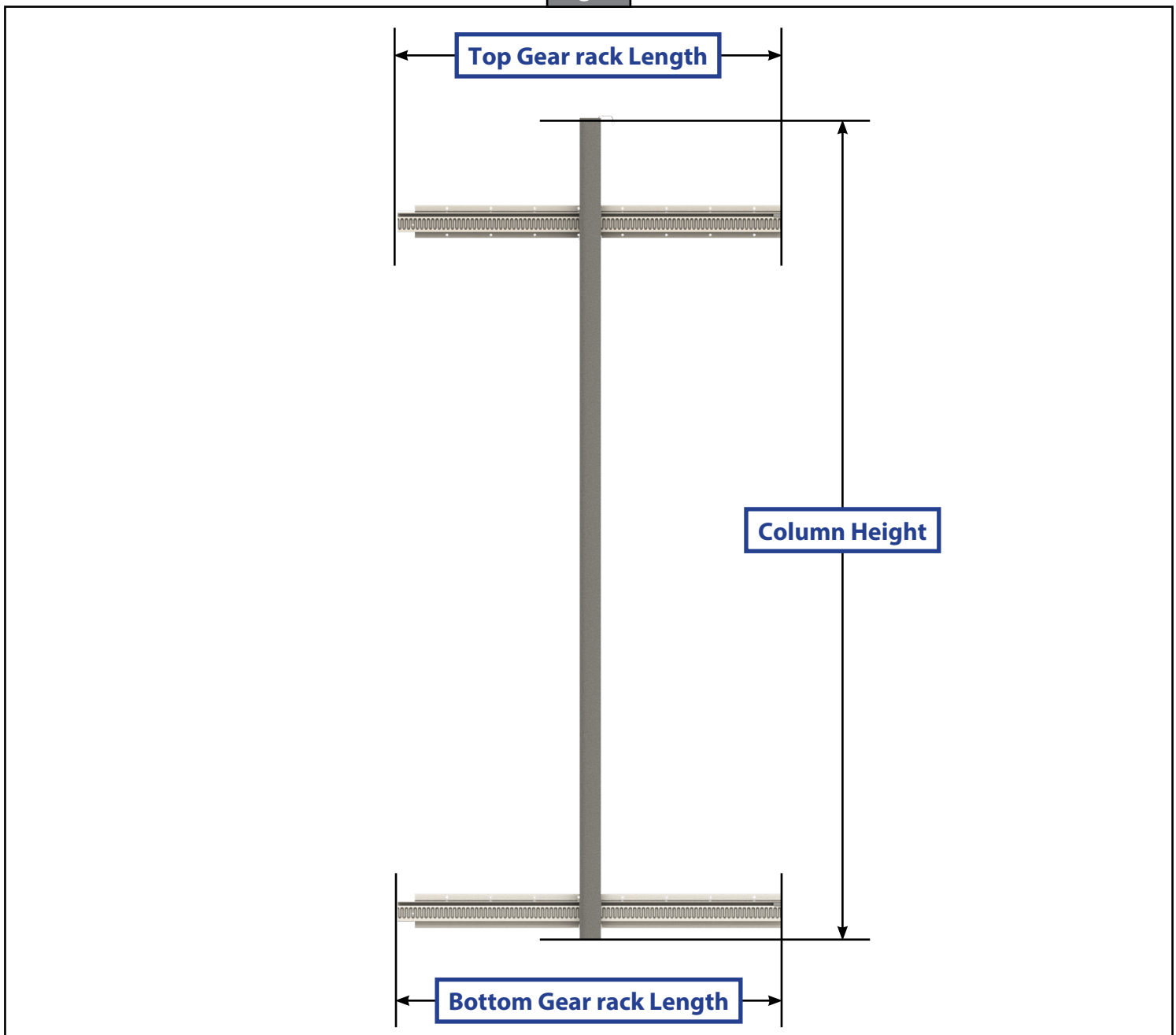
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Gear Rack Length and Column Height

Measure each gear rack and column on the original system and make sure each part matches the corresponding part on the replacement system (Fig. 4). Top gear racks must match, bottom gear racks must match, left columns must match, and right columns must match.

NOTE: If any differences are noted between column height or gear rack length, contact the Lippert Customer Care Center for further assistance.

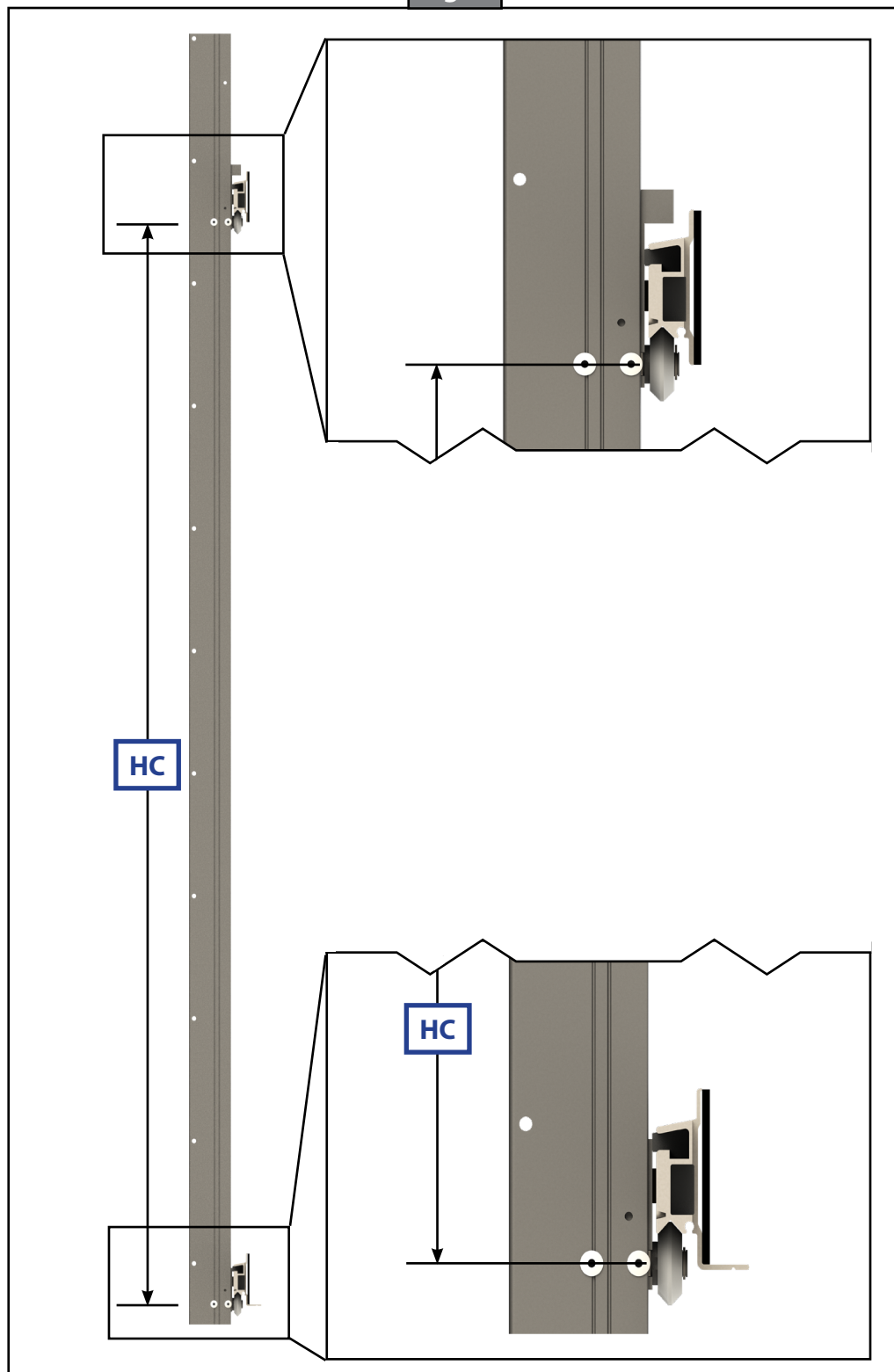
Fig. 4



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Hole Center

Fig. 5



Hole Center (HC) is the measurement of the distance between the gear racks. On the outside of the unit measure from the center of the rivets securing the top gib and column to the center of the rivets securing the bottom gib and column (Fig. 5). HC is always a whole number.

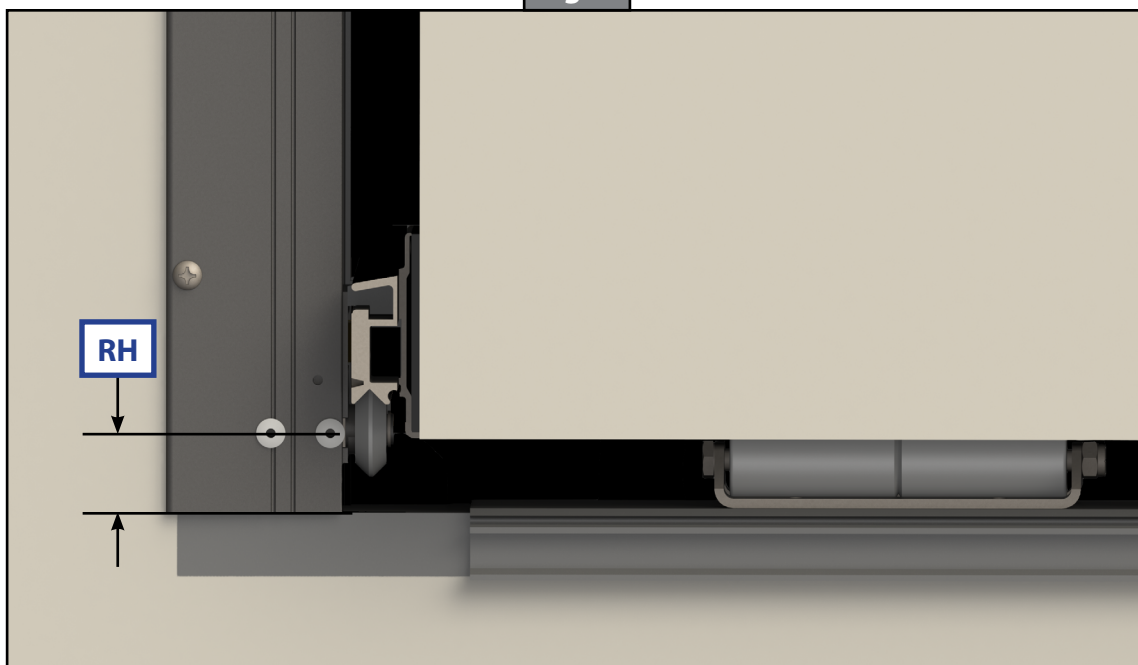
NOTE: Seals not pictured for clarity.

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Roller Height

Roller Height (RH) is the distance between the bottom of the slide room box and the room cutout. Measure from the center of the rivets securing the bottom gib and column to the bottom of the column (Fig. 6).

Fig. 6

**Modifying In-Wall H-Column for Secure Fastening to Unit Wall.**

When installing a replacement system, Lippert recommends using new screw holes in the system's H-Columns and the unit wall to properly secure it. See [TI-407 "Modifying In-Wall H-Column for Secure Fastening to RV Unit Wall"](#) for this procedure.

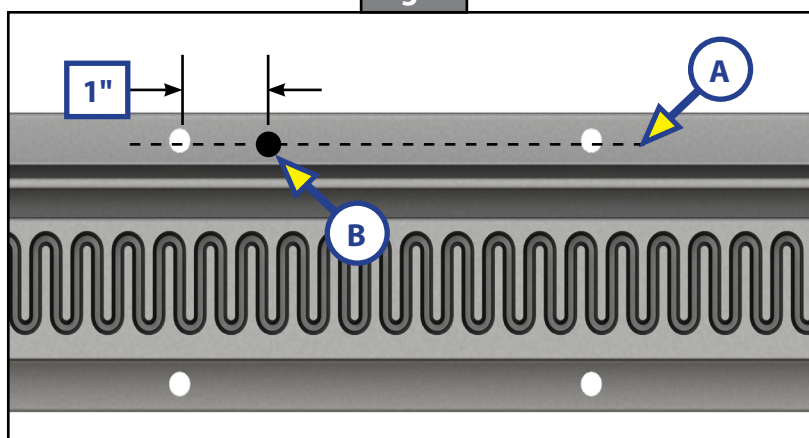
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Modifying In-Wall Gear racks for Secure Fastening to Unit Slide Box.

Procedure

1. Dry fit the new gear racks to the slide room, and check the position of the screw holes in the gear racks against the screw holes in the slide box. Note any locations on the gear racks where the gear rack's holes line up with existing holes in the slide wall.
2. At any location on the new gear racks where the holes line up with the holes on the slide box, use a straight edge to scribe a center line through the affected gear rack screw hole and its neighbor (Fig. 7A).
3. Using a 3/16" drill bit, drill a new hole through the gear rack flange 1" away from the hole that lined up to the original hole (Fig. 7B).
4. Repeat for each hole that lines up with an old hole on each gear rack.
5. Install the system using any new holes drilled in addition to any other holes that would not use an existing hole in the slide room box.

Fig. 7



6. If any existing holes (or portions of existing holes) are visible after install, apply a bead of caulk along the entire length of the wall above or below the gear rack to cover and seal the holes (Fig 8).

Fig. 8





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