



9050/9050TR USER MANUAL

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The information contained herein is subject to change.
For the most current information available, visit vpc.com.*

PRECAUTIONARY NOTES

The following is a listing of precautionary notes that should be noted and followed for optimal equipment operation.

- Never probe a contact without using a mating patchcord as a test lead.
- Never forcefully engage a system if there is an excessive amount of resistance.
- Never allow an ITA to drop as this may cause misaligned engagement and/or irreparable damage.
- Always insert and extract a contact insertion/extraction tool in line with the contact. Never apply pressure to the side as this may break either contact or tool. This also applies to forming and enlarging tools.
- It is advisable that power to the interface system be disconnected prior to handling and maintenance.
- Caution should always be used when engaging, making sure that all foreign objects are removed from the system.
- To prevent equipment damage caused by inadvertent contact being made with the system when not in use; such as bumping into the receiver/ITA assembly with a box, chair or electronic equipment; for example, using ITA and receiver protective covers is highly recommended.



FORCEFUL ENGAGEMENT OF THE ITA AND RECEIVER MAY RESULT IN SERIOUS DAMAGE TO MULTIPLE PARTS OF THE SYSTEM (MODULES, RECEIVER, ITA AND CONTACTS).



IN THE EVENT OF OPERATIONAL DIFFICULTIES, A TRAINED VPC TECHNICIAN SHOULD BE NOTIFIED TO AVOID ANY POTENTIAL DAMAGE TO THE SYSTEM FROM IMPROPER HANDLING.

9050 RACK MOUNT RECEIVER INSTALLATION

PART # 310 104 368, 310 104 429

TOOLS REQUIRED

Phillips Head Screwdriver

INSTALLATION

1. Install clip/cage nuts on rack, to correlate with mounting holes and captive screws on receiver.
2. Align receiver with clip/cage nuts on rack (**Figure A**).
3. Tighten captive screws in a cross pattern to ensure even torque is applied.



Figure A.

INSTALLING 9050 WITH VERTICAL HINGED MOUNTING FRAME (VHMF)

PART # 310 113 613, 310 104 368

TOOLS REQUIRED

Phillips Head Screwdriver

$\frac{3}{32}$ Allen Wrench

NOTE: Due to the weight of the VHMF (approx 15 lbs.) versus the receiver (approx. 3 lbs.), it is recommended that the VHMF is attached to the test rack first, then the receiver to the VHMF.

INSTALLATION

1. Determine an appropriate location on the rack to mount the VHMF and receiver. Keep in mind that the cables connecting to the receiver need to be long enough to allow the VHMF to hinge down.
2. Attach the VHMF to the rack in the desired location using the (8) 10-32 x 1" mounting screws (**Figure A**). Tighten screws in a cross pattern to ensure even torque is applied.
3. Using the 6 receiver mounting holes on the front of the Vertical Hinged Mounting Frame (VHMF), attach the receiver with the 10-32 x 1" captive screws, lock washers, and hex nuts included with the Receiver (**Figure B**).
4. When not in use, ensure that the receiver handle is closed (upward position), and that the VHMF is in the closed position, secured with the two screw knobs located at the top (**Figure C**).

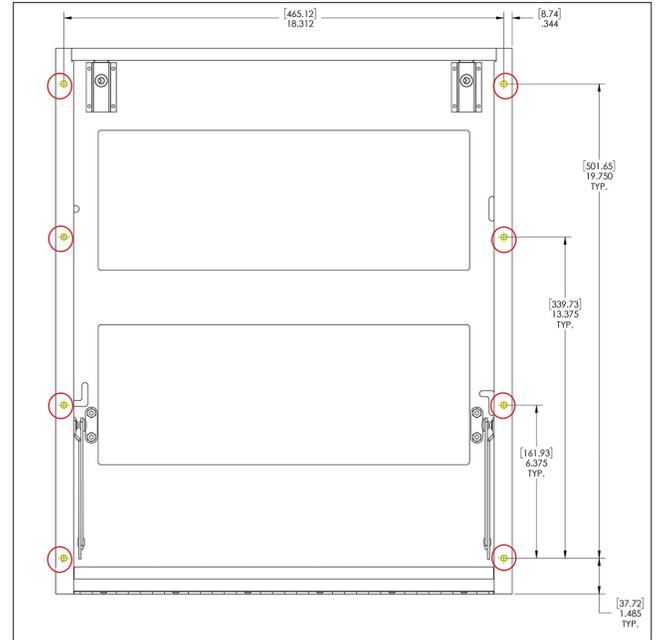


Figure A. Back of VHMF with rack mounting screw holes x 8 highlighted. Image also available in product drawing for p/n 310104368.



Figure C. VHMF and receiver installed on rack and not in use.



Figure B. Receiver attached to VHMF using captive hardware x 6 provided with receiver.

INSTALLING 9050TR WITH SLIDE KIT

PART # 310 104 369, 310 113 451, 310 113 411, 310 113 500

NOTE: The receiver platform is estimated to hold 180 lbs of weight. However, the platform leg kit, is recommended to provide greater stability and balance. The leg kit will allow for weight support of up to 350 lbs. The leg kit may be purchased via [p/n 310113566](#).

TOOLS REQUIRED

Phillips Head Screwdriver

³/₃₂ Allen Wrench

DETERMINE SLIDE KIT LENGTH

1. The slide kit should be chosen based on the distance from rail to rail inside the rack. Measure dimension A to determine the proper slide kit length, ensuring the slide length does not exceed dimensions A + B (**Figure B**).

SLIDE INSTALLATION

1. The height and weight of the 9050 and 9050TR require the use of 2 sets of slides for full support. Determine the desired approximate rack location to mount receiver and platform. The 9050TR (p/n 310104369) includes 2 instrument brackets, one for each tier, that can support a test chassis for close proximity access (**Figure A**). Keep in mind when selecting a receiver location that any system cables will need to be long enough to connect to instrumentation and allow for slides to fully extend without putting tension on the cables.
2. Install both sets of slides using manufacturer's instructions (included with slide packaging or online at [accuride.com](#)). A distance of 9.870 [250.70] is required from the top rear screw hole of the top set of slides to the top rear screw hole of the bottom set of slides (**Figure C**).
3. Make sure to horizontally match the location of the rack mounting holes used for each tier of slides. Do not fully tighten down the 4 front and 4 rear mounting screws at this time, on each tier of slides (**Figure D**).



Figure A. Each set of slides supports an instrument bracket (shelf) for easy test chassis access.

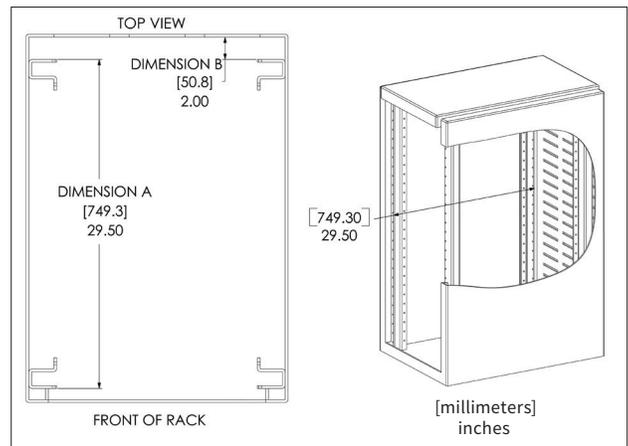


Figure B.

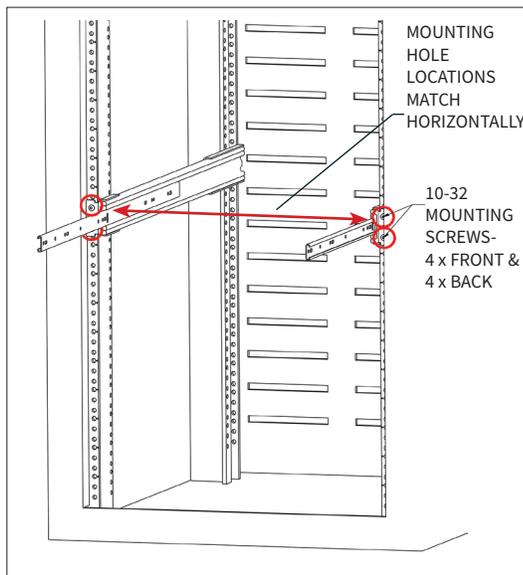


Figure D. Do not initially tighten down the 4 front and 4 rear mounting screws on each tier of slides.

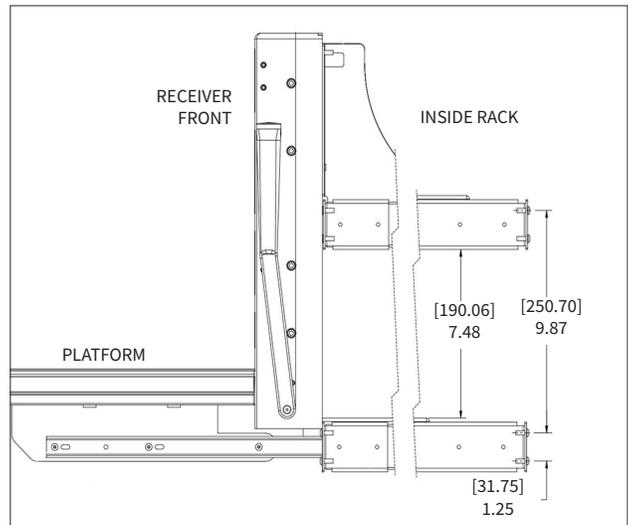


Figure C. 9050TR side profile view. Measurements for vertical distance between slides. See product drawing for p/n 310104369 for more detail (available at [vpc.com](#)).

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INSTALLING 9050TR WITH SLIDE KIT (CONT'D)

PART # 310 104 369, 310 113 451, 310 113 411, 310 113 500

4. Remove the innermost section of each slide by extending the slides fully, depressing the blue tab, and continuing to extend the inner sections of each slide until it is free from the slide assembly (**Figure E**).
5. Install the included instrument brackets. The shorter bracket is to be installed for use with the top tier of slides and the longer on the bottom. To install, follow the instrument bracket instructions also in this User Manual.

9050TR INSTALLATION

1. Install inner slides back into slide kit in the rack.
2. Attach the platform mounting flanges to the inner slide rails on the bottom tier using (6) 8-32 button head screws provided with the receiver (**Figure F**). Do not fully tighten the screws.
3. Attach the receiver mounting flanges to the top tier slides also using (6) 8-32 button head screws. Ensure that the mounting surface portion of the flange is directed outward as viewed from the front (**Figure F**). Do not fully tighten the screws.
4. Install the 9050TR platform/receiver onto the platform mounting flanges with (6) 8-32 screws (**Figures E and F**). Do not fully tighten the screws.
5. Install the receiver mounting flanges on the top tier slides, to the back of the receiver using the (4) receiver rack mounting screws provided.
6. Pull the platform/receiver out as far as possible. The slides will lock in position. Push the blue tabs located on the middle section of the slides. Apply pressure to push the receiver back in toward the rack. The smaller inner slides will move into the middle section, which should not move. Push receiver until it backs against the rack.
7. During regular use of the 9050TR, when not extended away from the rack on the slides, the user should secure the receiver to the rack. This prevents the unit from uncontrolled slide motion. To ensure the receiver is correctly aligned with mounting hole locations on the test rack, temporarily fasten the receiver to the rack using its captive 10-32 screws. Be sure to provide support beneath the platform, lifting it slightly to ensure an even screw engagement.
8. Now, complete installation by fully tightening the previously installed screws in this order:
 1. 8-32 receiver mounting screws .
 2. 8-32 button head platform mounting flange screws (**Figure F**).
 3. Front slide mounting screws (from slide mounting procedures).
 4. Rear slide mounting screws (from slide mounting procedures).
9. The receiver may now be unscrewed from the rack and moved out from the rack on the slides, if desired.

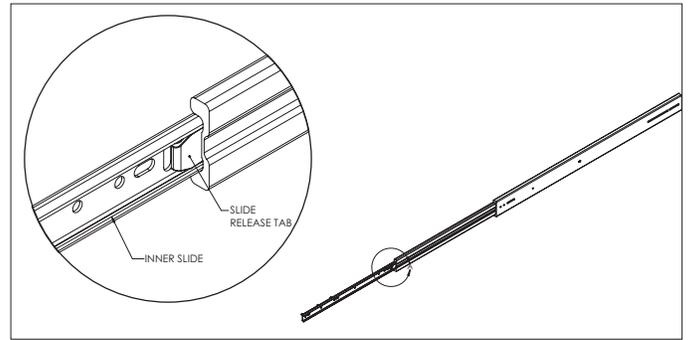


Figure E.



Figure F. Attach platform mounting flanges to the inner slide rails.



Figure G.

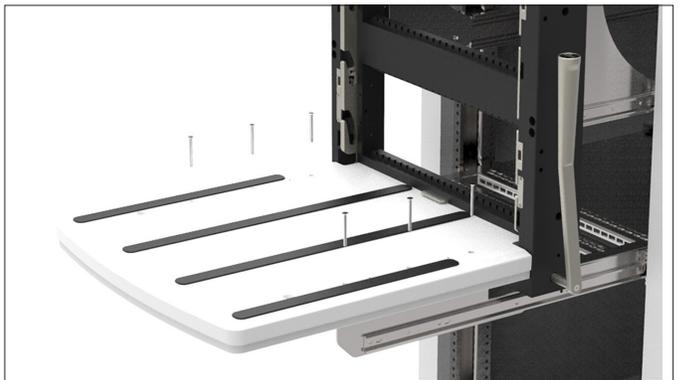


Figure H.



ALWAYS SUPPORT THE RECEIVER AND PLATFORM WITH THE MOST ROBUST (MIDDLE) SECTION OF THE SLIDES.

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INSTALLING 9050 WITH SLIDE KIT

PART # 310 104 402, 310 104 483, 310 113 451, 310 113 411, 310 113 500

TOOLS REQUIRED

- Phillips Head Screwdriver
- $\frac{3}{32}$ Allen Wrench

DETERMINE SLIDE KIT LENGTH

- The slide kit should be chosen based on the distance from rail to rail inside the rack. Measure dimension A to determine the proper slide kit length, ensuring the slide length does not exceed dimensions A + B (**Figure B**).

NOTE: If choosing 36" slides, 9050 Receiver p/n 310104483 must be chosen as it is specially designed for this length of slide with the inclusion of a longer instrument bracket.

SLIDE INSTALLATION

- The height and weight of the 9050 and 9050TR require the use of 2 sets of slides for full support. Determine the desired approximate rack location to mount receiver and platform. The 9050 includes 2 instrument brackets, one for each tier, that can support a test chassis for close proximity access (**Figure A**). Keep in mind, when selecting a receiver location that any system cables will need to be long enough to connect to instrumentation and allow for slides to fully extend without putting tension on the cables.
- Install both sets of slides using manufacturer's instructions (included with slide packaging or online at accuride.com). A distance of 9.88 [250.83] is required from the top rear of the top set of slides to the top rear of the bottom set of slides (**Figure C**).
- Make sure to horizontally match the location of the rack mounting holes used for each tier of slides. Do not fully tighten down the 4 front and 4 rear mounting screws at this time, on each tier of slides (**Figure D**).



Figure A. Each set of slides supports an instrument bracket (shelf) for easy test chassis access.

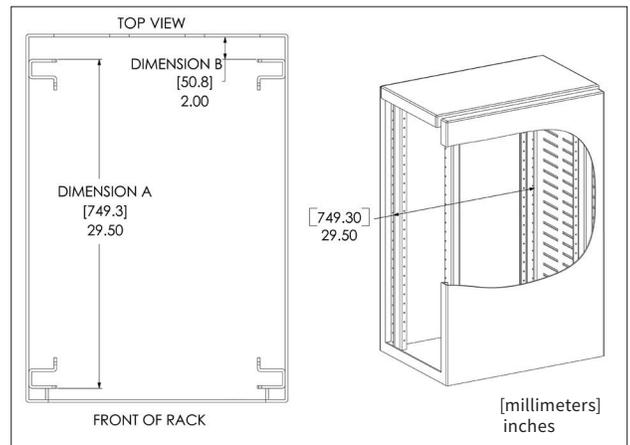


Figure B.

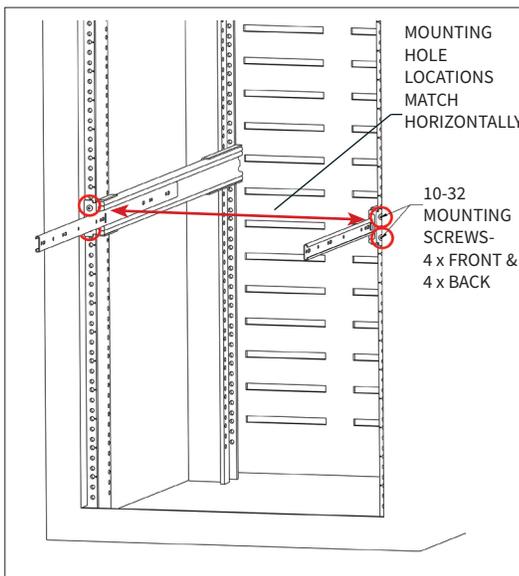


Figure D. Do not initially tighten down the 4 front and 4 rear mounting screws on each tier of slides.

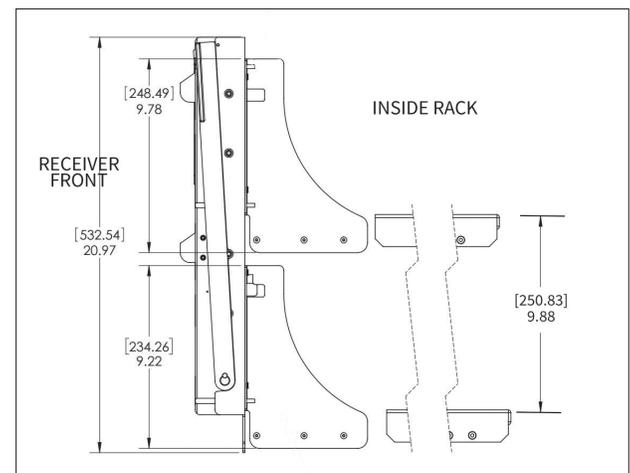


Figure C. 9050 side profile view. Measurements for vertical distance between slides. See product drawing for p/n 310104402 for more detail (available at vpc.com).

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INSTALLING 9050 WITH SLIDE KIT (CONT'D)

PART # 310 104 402, 310 104 483, 310 113 451, 310 113 411, 310 113 500

4. Remove the innermost section of each slide by extending the slides fully, depressing the blue tab, and continuing to extend the inner sections of each slide until it is free from the slide assembly (**Figure E**).
5. Install the included instrument brackets. The shorter bracket is to be installed for use with the top tier of slides and the longer on the bottom. To install, follow the instrument bracket instructions also in this User Manual.

9050 INSTALLATION

1. Install inner slides back into slide kits in the rack.
2. Attach the receiver mounting flanges to the inner slide rails on both tiers of slides using (6) 8-32 button head screws for each tier. On the top tier use the taller of the two sets of flanges, included with the receiver. Ensure that the mounting surface portion of the flanges are directed outward as viewed from the front (**Figure F**).
3. Install the receiver mounting flanges on the top tier slides, to the back of the receiver using the (4) receiver rack mounting screws provided (**Figure G**). Then attach the flanges on the bottom tier to the receiver.
4. Now, fully tighten the slide mounting screws. First tighten the front mounting screws, then tighten the rear slide mounting screws (**Figure D**).



WHEN MOVING THE RACK OR ATTACHING AN ITA, ENSURE THE SLIDES ARE FULLY COLLAPSED AND RECEIVER IS SECURED TO RACK WITH .190-32 UNF SCREWS.

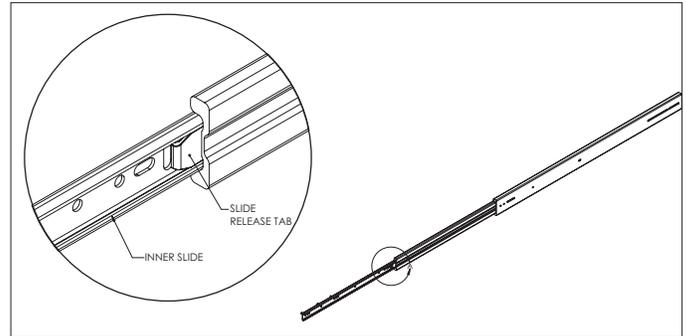


Figure E.

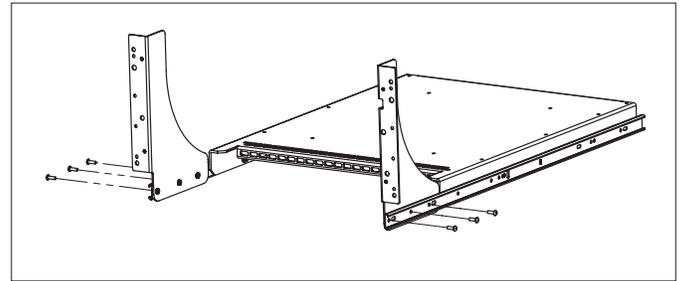


Figure F. Attach receiver mounting flanges to the inner slide rails.



Figure G.

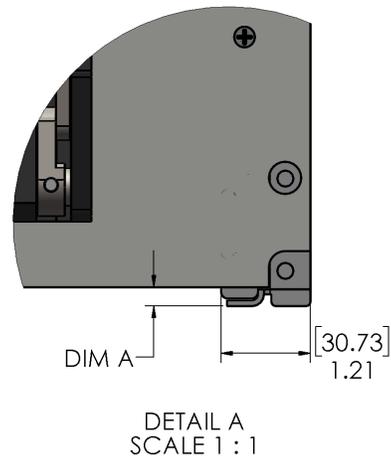
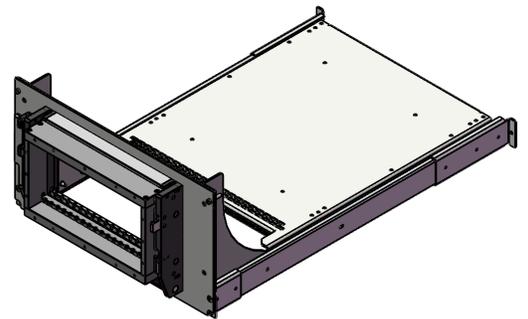
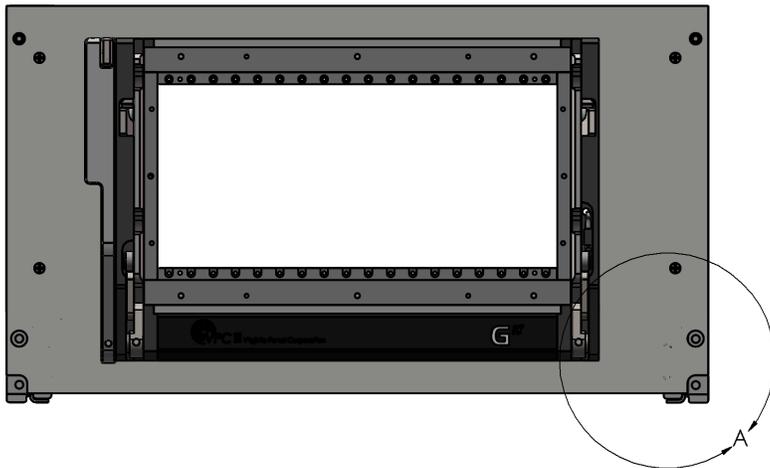
SLIDE MOUNT NOTATION REGARDING U HEIGHT

PART # 310 104 369, 310 104 402, 310 104 483

With certain receivers including the 9050/ 9050TR, the slide mechanism protrudes downward slightly into the next U height on both sides of the receiver. Please make any necessary adjustments to U height when planning your test rack layout.

Measurements can vary per receiver, see table.

Part Number	DIM A
310 104 369	.25 [6.4]
310 104 402	.25 [6.4]
310 104 483	.25 [6.4]



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INSTALLING INSTRUMENT BRACKET

PART # 310 113 453

TOOLS REQUIRED

$\frac{5}{32}$ Allen Wrench

Phillips Head Screwdriver

INSTALLATION

1. Depress the blue tab on one of the inner slides and remove from outer slide.
 2. Attach it to the instrument bracket using (2) 8-32 button head screws in the front two holes. The front two holes on the instrument bracket will align with the front two holes on any length slide kit.
 3. Install the third 8-32 button head screw in the rear hole of the inner slide and instrument bracket. **(Figure A)** The third hole alignment may differ depending on which slide kit you are using.
 4. Attach the remaining inner slide to the other side of the instrument bracket.
 5. Reinstall the inner slides to the rack installed slides.
 - Slide the left mid-section of the slide all the way out, you will feel it lock into position.
 - Feed the matching inner slide into position and ensure the inner section slides into place with the roller bearings seated in the groove.
 - Push the inner slide in about 6-8 inches and then pull out the right side. Slide the track of the mid-section over the right side of the inner slide.
 - Pull the slide out until the position matches the left side.
 - Reach to the back of the middle slides and release the spring locking mechanism **(Figure B)**.
 6. At this time, both sides should be partially installed. This is indicated when neither side is able to proceed into the rack because the support tab on the instrument brackets is hitting the slide mounting bracket.
 7. Rotate both instrument brackets inward so the support tabs can pass the mounting brackets. Push and install both slides simultaneously into position. Be sure to push in the blue tabs to allow the inner tabs to travel into the middle slide section.
- NOTE:** The middle section will not go into the outer section until the inner section has been fully installed into the middle section.
8. Tighten the slide mounting screws.

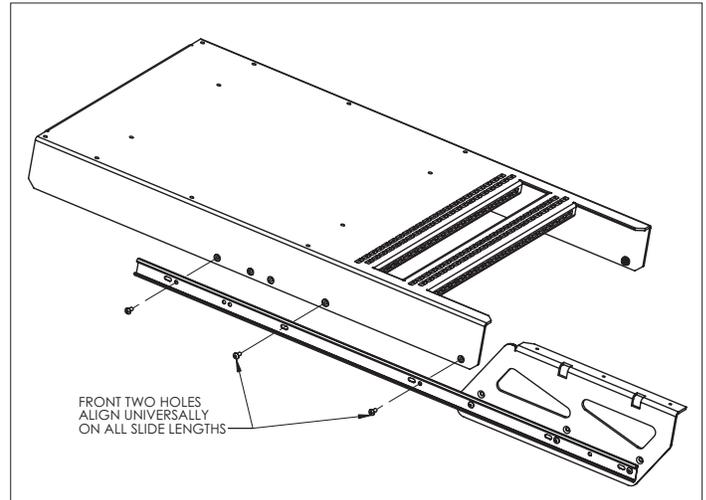


Figure A.

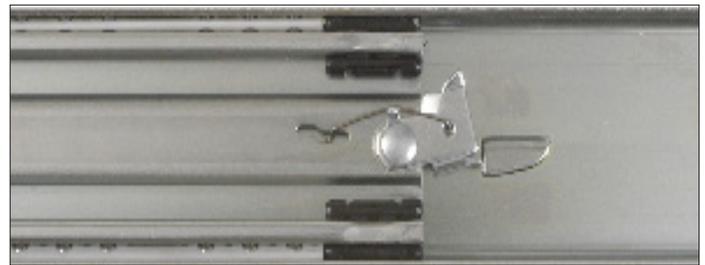
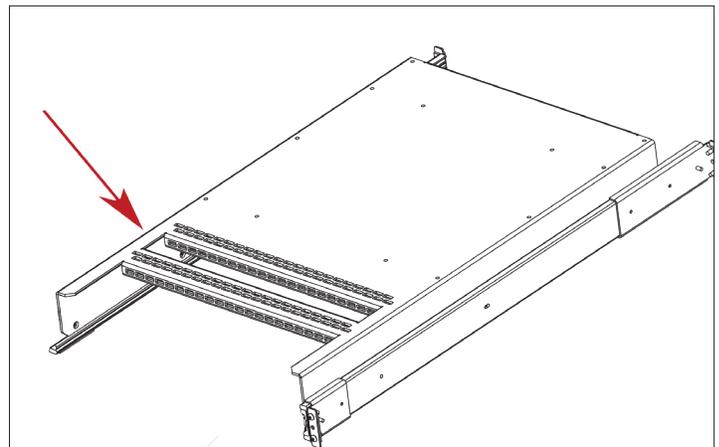


Figure B. Spring-locking mechanism.



The slots on the instrument bracket are designed to accept a strap for securing a test chassis, if desired.



MAKE SURE ALL MOUNTING SCREWS HAVE BEEN SECURELY TIGHTENED. ONLY USE 8-32 BUTTON HEAD SCREWS.

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INSTALLING KEYBOARD TRAY

PART # 310 113 439



Dimensions shown: [millimeters]
inches

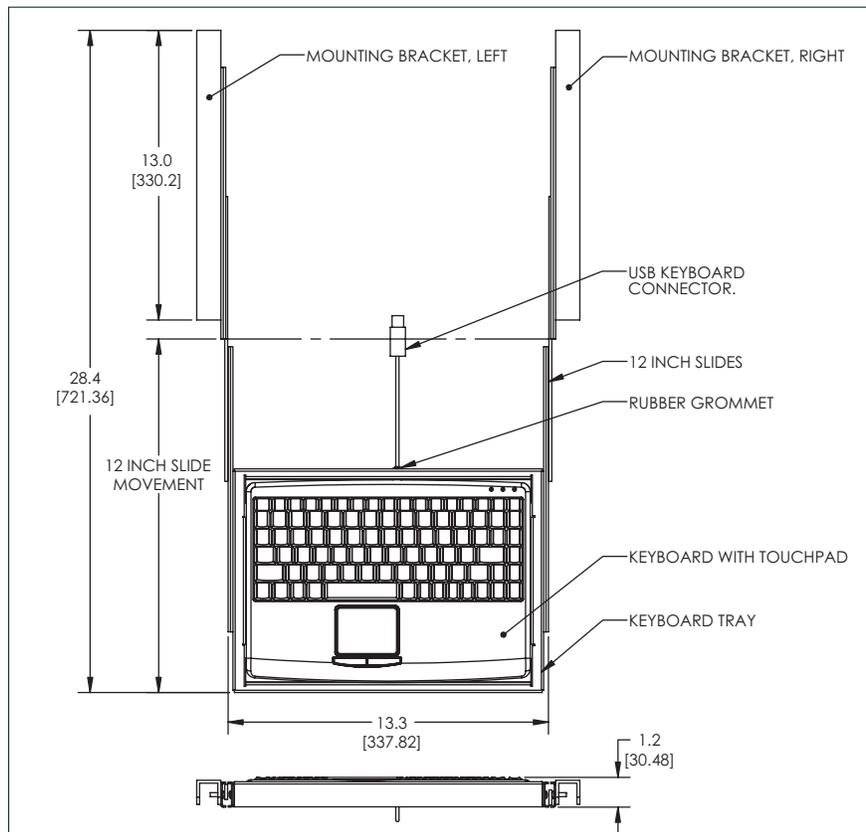


Figure A.

INSTALLING KEYBOARD TRAY (CONT'D)

PART # 310 113 439

TOOLS REQUIRED

$\frac{3}{32}$ Allen Wrench

1. Attach the keyboard mounting brackets to the existing platform mounting brackets using with the supplied 8-32 flat head screws, nuts, and lock washers. Align the keyboard mounting brackets with the 3 screws that extend beyond the platform mounting bracket (**Figure A**).
2. Use 6 of the 8-32 x .38 button head screws to attach the 12" keyboard kit slides to the inner side of the keyboard brackets. The manufacturer stamped identification on the slides should be placed toward the rack. Fully extend the keyboard slides to access the hole locations (**Figure B**).
3. Insert the keyboard into the keyboard tray. Wrap the plastic strain relief around the cable near the back of the keyboard and press into the hole provided on the keyboard tray.
4. Fully extend the 12" slides and mount the keyboard tray (**Figure C**). Floating, self-locking fasteners in the keyboard mounting brackets prevent the screws from backing out. This creates a noticeably snug fit when tightening the screws.

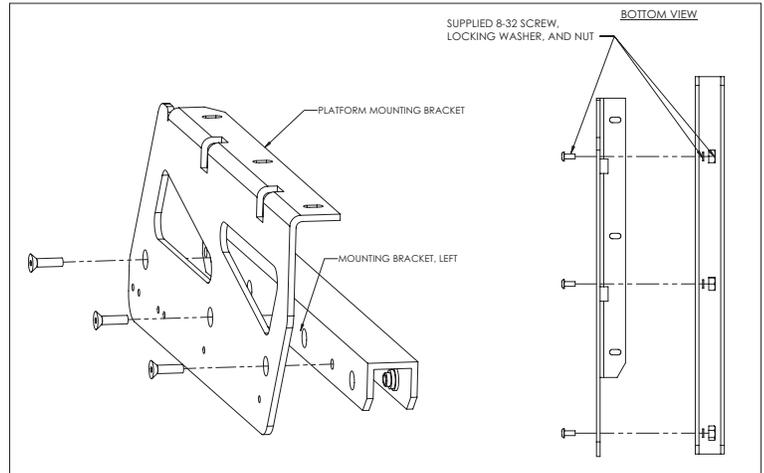


Figure A.

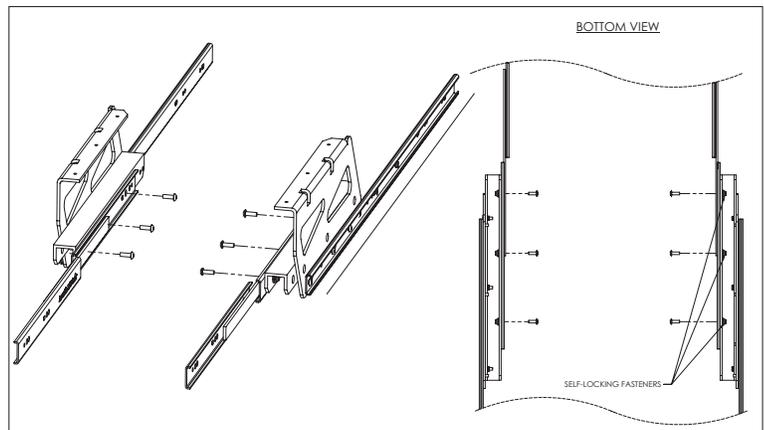


Figure B. Fully extend the keyboard slides to access the mounting holes for the self-locking fasteners.

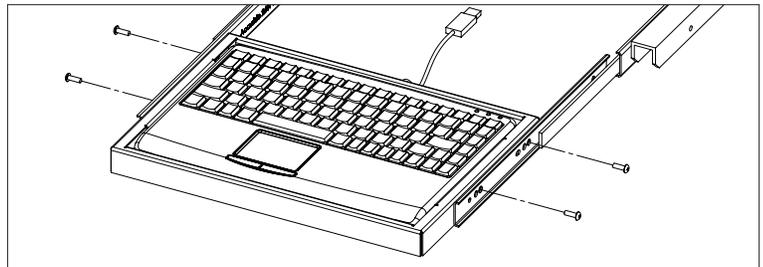


Figure C. The different hole patterns allow for variations in the overall position of the keyboard.

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9050TR PLATFORM REMOVAL AND REINSTALLATION

PART # 310 104 369

Platform removal is recommended for safe transport should the rack need to be moved or relocated.

TOOLS REQUIRED

$\frac{5}{32}$ Ball End Allen Wrench or Ball Driver
Phillips Head Screwdriver
Zip Ties

REMOVAL

1. Secure receiver to rack using the captive 10-32 mounting screws (**Figure A**). The platform should only be removed from the receiver after the receiver has been secured to the rack.
2. Remove any optional accessories including keyboard tray, leg kit, and instrument bracket.
3. With the receiver secured to the rack, remove the six 8-32 mounting screws from the bottom of the 9050TR to remove the platform (**Figure B**).
4. Remove the 8-32 screws that attach the platform brackets to the slides. The platform will now be free from the receiver and slides. The platform brackets do not need to be removed from the platform for transportation.
5. To secure the slides for transport, return the slides to the closed position and use zip ties to secure the 3 sections of each slide.

REINSTALLATION

1. Remove the zip ties used to secure the slides.
2. Attach the platform with brackets to the slides using six 8-32 mounting screws (**Figure C**).
3. Slide the platform to the closed position and install the six 8-32 mounting screws to re-attach the platform to the receiver.
4. Reinstall any of the optional accessories.
5. Once the platform has been re-attached to the receiver and slides, detach the receiver from rack by unscrewing the captive 10-32 mounting screws.

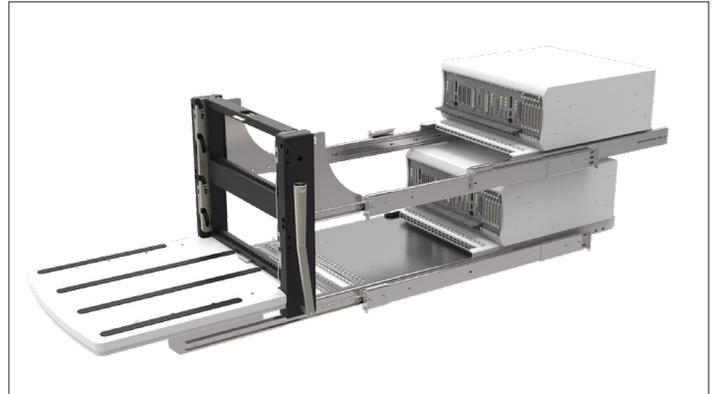


Figure A.

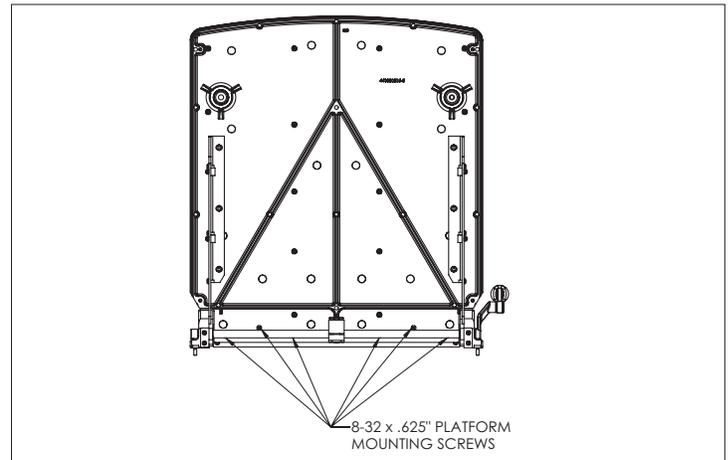


Figure B. The six mounting screws must be removed from the receiver before the platform can be removed.

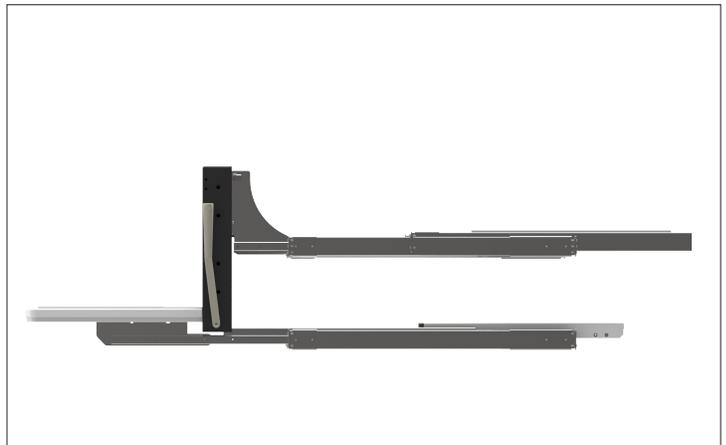


Figure C. The brackets will be securely attached to the slides after the mounting screws are installed.

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9050TR HANDLE ROTATION AND SIDE CHANGE

PART # 310 104 369

NOTE: The 9050TR receiver handle requires approximately 90° of counter-clockwise movement for engagement and 90° of clockwise travel for disengagement of the ITA. This handle is removable and adjustable to accommodate different mounting configuration needs and for transport purposes.

TOOLS REQUIRED

$\frac{3}{32}$ Allen Wrench

ROTATION

1. Remove the handle screw with a $\frac{3}{32}$ Allen wrench.
2. Remove the handle and reposition in 90° increments (**Figure A**).
3. Replace the screw and tighten until the handle is secured tightly.

SWITCHING HANDLE SIDES

1. Using the $\frac{3}{32}$ Allen wrench, remove the handle screw and handle (**Figure B**).
2. Using the $\frac{3}{32}$ Allen wrench, remove the screw and handle washer on the left side of the receiver (**Figure B**).
3. Install the handle into the left side hole at the preferred 90° position (**Figure C**).
4. Replace the screw and handle washer into the cavity on right side of the receiver.

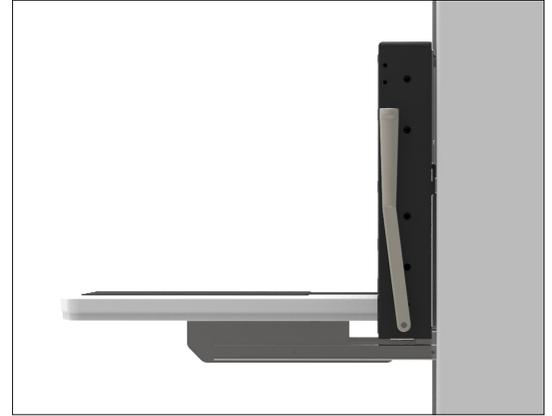


Figure A. 9050TR Receiver handle can be rotated in 90 degree increments to support test station set up needs.



Figure B. Remove handle from standard right side.



Figure C. Install handle on left side.

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MICROSWITCH REMOVAL AND INSTALLATION

PART # 310 113 200

NOTE: A microswitch may be used in VPC receivers to determine the presence (or absence) of an engaged ITA in the system. It is typically configured so that power to the interface is turned off when there is no ITA present. An integrated microswitch is standard on the 25 and 50 module receivers.

TOOLS REQUIRED

Phillips Head Screwdriver

REMOVAL

1. Disengage the ITA from the receiver (remove the ITA completely). With the receiver handle still in the open position (handle is down), unscrew the two plate retaining screws (using a Phillips screwdriver) that are located immediately below the top right engaging mechanism/slot - this will expose the microswitch.
2. Remove the necessary modules so that the microswitch retaining screws may be accessed.
3. Unscrew the retaining screws (using a Phillips screwdriver), removing each as they are loosened (caution should be used so that the screw(s) do not fall into the system).
4. Carefully remove the microswitch for continuity testing.

INSTALLATION

For microswitch installation, repeat steps 1 - 5 above, in reverse order.



AS WITH ALL ELECTRICAL SYSTEMS - DISCONNECT ALL ELECTRICAL SUPPLIES TO THE SYSTEM PRIOR TO REMOVAL OF THE MICROSWITCH.

ITA ENCLOSURES

PART # 410 112 463, 410 112 519, 410 113 214, 410 104 538

NOTE: VPC offers several standard ITA enclosures, as well as custom enclosures. The 9025, 25 module ITA enclosure, is compatible with the 9050 if a smaller ITA enclosure is desired. Visit vpc.com for all available options for the 9050 and 9025 ITA.

TOOLS REQUIRED

3 mm Allen Wrench
Phillips Head Screwdriver

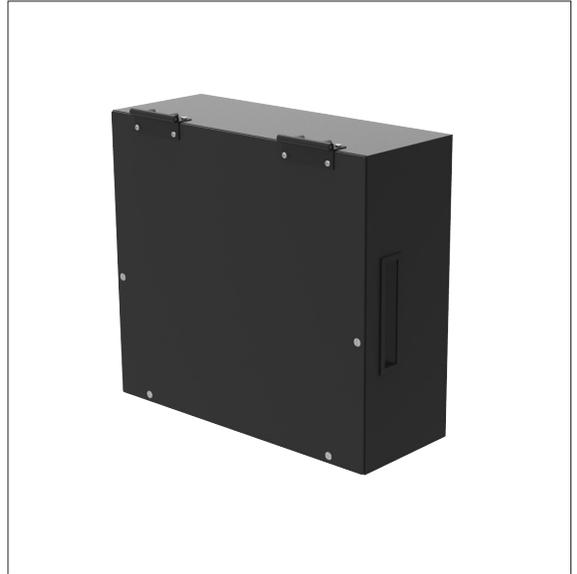
STANDARD ENCLOSURES

1. To mount ITA frame, align frame with enclosure.
2. Insert screws and tighten with Allen Wrench. Torque 6-8 in. - lbs. for 4-40 screws.

CUSTOM 9050TR ENCLOSURES

When building a customized ITA enclosure, these guidelines should be followed to ensure proper mating with the 9050TR receiver (**Figure A**):

- When mounting, the ITA frame must be flush with the bottom of the enclosure
- The width of the enclosure may longer than the ITA frame, as long as the extended width is offset to the opposite side of the receiver's engagement handle
- There is no limit to the height of the enclosure.



Opposite side of ITA on standard ITA Enclosure with hinged cover for easy interior access.



ITA side of standard ITA Enclosure ITA frame ready for mounting.

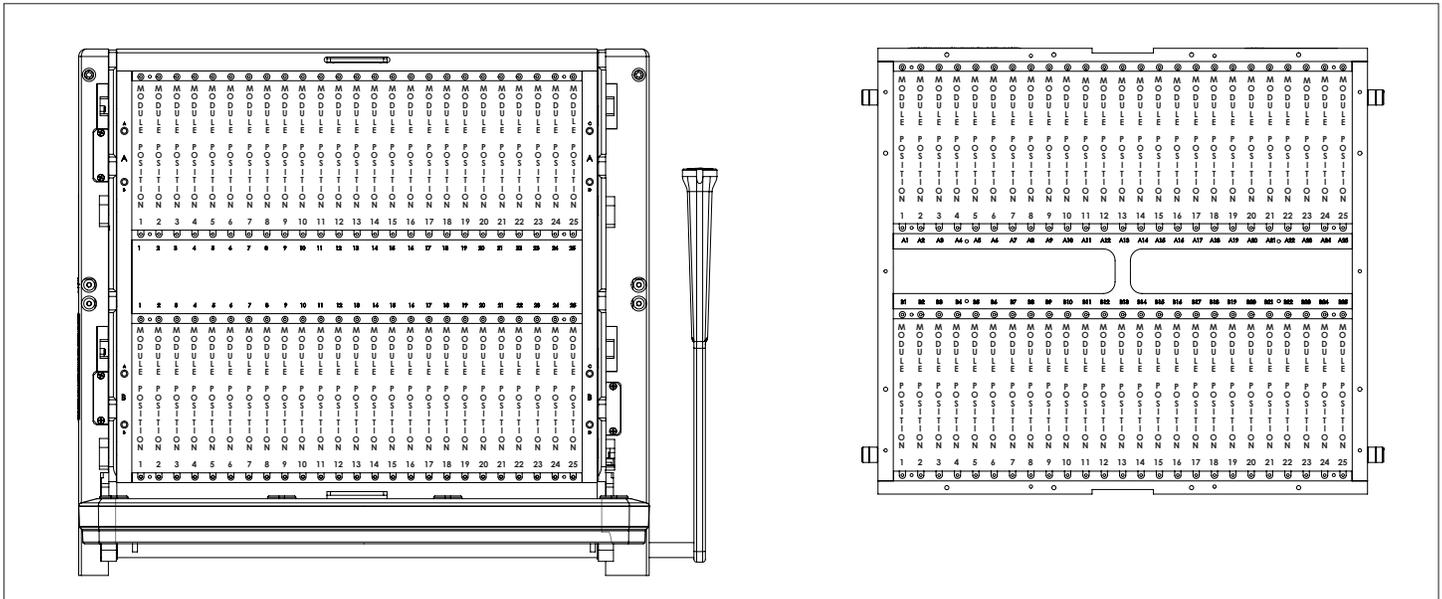


Figure A. Enclosures must be flush with the bottom of the ITA frame to ensure mating with the 9050TR receiver. The width of the enclosure may grow with customer needs, as long as the extended width is offset to the side opposite the engagement handle. There is no limit to the height of the enclosure.

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ITA AND RECEIVER ENGAGEMENT

Prior to engaging an ITA with the receiver for the first time, ensure all modules (ITA and receiver) are properly installed. This includes inspection of modules to ensure proper mounting and to verify module positioning. Modules must be installed so that Pin 1 of each respective mating receiver and ITA module pair are adjacent. VPC recommends that Pin 1 be positioned to the left in the receiver and ITA frames. All ITA modules must match the respective receiver modules. It is crucial for all modules to be installed properly.



9050 Receiver and ITA.

ENGAGEMENT

1. The receiver should be checked for any foreign objects that may interfere with engagement.
2. After inspection, the ITA is ready for engagement with the receiver. The ITA may be placed onto the receiver platform and properly positioned relative to the receiver guide pins. Ensure that the ITA roller bearings are aligned with the receiver slide openings when the receiver handle is in the open position.
3. Carefully rotate the handle forward to actuate the receiver slide engagement mechanisms, which will draw the ITA into engagement position with the receiver. Once the handle reaches a positive stop at the end of its travel and latches into place, the modules are engaged.
4. Upon completing use of the ITA, rotate the receiver handle to the open position, remove the ITA, reinstall the receiver protective cover and rotate the handle to the closed position.
5. Always protect the contacts when the system is not in use. The receiver contacts are protected when either the ITA or receiver protective cover is engaged. VPC recommends use of both receiver and ITA protective covers to avoid potential contact damage.



IMPROPER INSTALLATION WILL DAMAGE THE MODULES, AND POSSIBLY THE ITA AND/OR RECEIVER.



IN THE EVENT OF COMPLICATIONS, A TRAINED TECHNICIAN SHOULD BE NOTIFIED IMMEDIATELY TO AVOID ANY DAMAGE TO THE SYSTEM. THIS APPLIES TO ANY DIFFICULTIES THAT MAY BE EXPERIENCED DURING ENGAGEMENT.

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TROUBLESHOOTING

ITA will not properly engage with receiver.

ITA is possibly out of alignment or module are mismatched.

- Remove and inspect the ITA for proper alignment.
- Check for foreign objects/tools obstructing mating.
- Inspect module configuration. Ensure ITA module placement and type match that of each receiver module.
- Inspect for any bent or incorrectly placed pins.
- Verify the orientation of the receiver and ITA modules.

Excessive force is needed to engage the handle.

(Typical contact load- approximately 35 lbs. force)

ITA is possibly out of alignment or module are mismatched.

- See above troubleshooting steps

ITA will not engage with the receiver after attempting above troubleshooting steps.

Contact VPC – unauthorized user adjustments to the system will void the warranty.

No continuity upon engagement.

- When replacing an ITA contact, the mating contact on the receiver side should also be inspected and replaced if necessary.
- Check wiring and replace if necessary.
- Contact not secured in module.
- Contact damage. Visually inspect all contacts for damage to potentially isolate damaged pin prior to checking for continuity with a multi-meter.

A “short ” in the wiring upon engagement.

- Damaged contact(s) may cause high resistance. Upon replacing a contact in the ITA, the mating contact on the receiver side should also be inspected and replaced, if necessary.
- Check wiring and replace, if necessary.

Receiver and ITA will not disengage.

Engagement mechanism within the receiver may be faulty.

Contact VPC – unauthorized user adjustments to the system will void the warranty.

Handle feels/appears loose.

- Refer to drawing for tightening instructions:

