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Before You Begin

- (A) Read the installation and service manual before starting installation.
- (B) Ensure that the foundation is dimensionally correct for the scale and that the footings/piers are level. Make sure that the foundation conduit for the homerun cable does not protrude far enough to interfere with the scale or cause the homerun cable to kink. It is advisable to route the homerun cable prior to placing the scale so long as it does not pose a tripping hazard during installation.
- (C) Unpack crates and check quantities against layout drawing.

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Assemble Base Plates

- (A) Retrieve base plates, load cell KOPs, and fluids KOP from crates.
- (B) Put a drop of thread locker on threads of each lower receiver pin.
- (C) Insert pins into base plates.
- (D) Place one 1/4"-thick receiver shim on each base plate.
(for nominal profile)
- (E) Place a lower receiver on each base plate.
- (F) Use provided grease to lubricate O-rings on upper receivers and place receivers in modules.



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Place Base Plates

- (A) Place two end base plates about 6" from the foundation approach with the checking brackets inboard (ref GLO).
- (B) Place two middle base plates in the appropriate location (ref GLO & foundation) (skip if single mod scale).



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Place Locating Tools

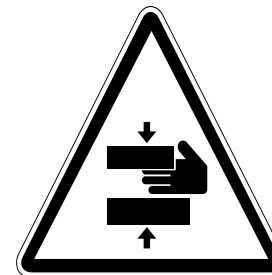
- (A) Place locating tools in lower (hex) receivers so that they fit correctly (grooved side down).

Note: The top pin of the locating tool has a larger diameter than the bottom.



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⚠ Warning for Lifting Modules



WARNING

WHEN A MODULE IS BEING MOVED, DO NOT PLACE YOUR HANDS OR OTHER ITEMS BETWEEN THE MODULE AND ANY OTHER SURFACE. IF IT IS NECESSARY TO PLACE YOUR HANDS UNDER A MODULE DURING INSTALLATION, MAKE SURE THAT THE MODULE IS PROPERLY BLOCKED SO THAT IT CANNOT MOVE. FAILURE TO FOLLOW THIS WARNING COULD RESULT IN BODILY HARM OR PROPERTY DAMAGE.

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Place First Module

- (A) Note: When lifting an empty module, it is recommended to hook chains at an appropriate spacing in the ribs just inboard of the I-beams, so that the module remains level. Follow specification on chain for load and permissible angle. DO NOT LIFT BY THE REBAR.
- (B) Align module with foundation (centered and 1" from the end wall) and CAREFULLY place module on top of locating tools, adjusting base plates as needed.



VTC15x and VTC25x Weighbridge » Installation Guide

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Coupling KOP

- (A) Retrieve coupler bolts, washers and lock nut from the coupling kit.
- (B) Place one washer on the coupling bolt.
- (C) Insert the coupling bolt through the hole on the module.
- (D) **For the VTC15x:** Add 1 inch nominal shims to the bolt. (This step can be done after setting all modules)
For the VTC25x: Add six washers to the bolt and then add an O-ring on the first thread. Pull the bolt back so that the washers are adjacent to the O-ring.



If needed, add or remove shims/washers to align modules.

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Place Following Modules

- (A) Position next pair of base plates (end base plates are used at the final section).
- (B) Align next module with previous and CAREFULLY rest it on the couplers of the first module and the locating tools of the next section.
Note: The module should rest ON the stainless coupler shim. There should be about a 1" gap between the two modules at the coupler, which corresponds to a 1/2" gap between the modules at their centers; holes for the coupler bolts must align.
- (C) Push the coupling bolt on the first module through the hole on the next module.
- (D) Add a final washer and the lock nut.
- (E) Repeat Steps 7 and 8 for remaining modules. Once all couplers bolts are inserted, tighten until snug.



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Secure Base Plates

- (A) Double-check that the scale is straight and that there are appropriate gaps at each end. Adjust using a long pry bar if necessary.
- (B) Ensure that all locating tools are straight and that the end base plates are not crooked (checking gussets must have enough space so that scale hits the approach instead of the base plate (>1/8" gap)).
- (C) Use a 3/4" masonry bit and rotary hammer drill to anchor base plates. Follow anchor manufacturer's instructions. Reference GLO. Install wedge anchors per manufacturer's instructions.



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Load Cells & Checking KOP

- (A) Replace the locating tools with load cells by lifting modules with a jack, greasing the top and bottom of the load cell pins.
- (B) Insert all lateral checking bolts, washers and nuts. Stack the required number of washers between the bolt head and the checking bracket to achieve approximately a 1/16" gap between the checking bolt and the module.
- (C) If necessary, adjust the end bumpers with the provided shims in the checking KOP. The gap between the foundation and the end bumpers should be 1/8".
- (D) Wire load cells through the PVC conduit.

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Concrete

- (A) Place access covers over each module corner.
- (B) Prepare the modules for concrete by taping holes as needed. (The drain holes in the bottom pans can remain open.)
- (C) Cover any painted surfaces to prevent scratching and ease cleanup.
- (D) Follow the concrete specification provided with each module (also referenced on the GLO & manual).

