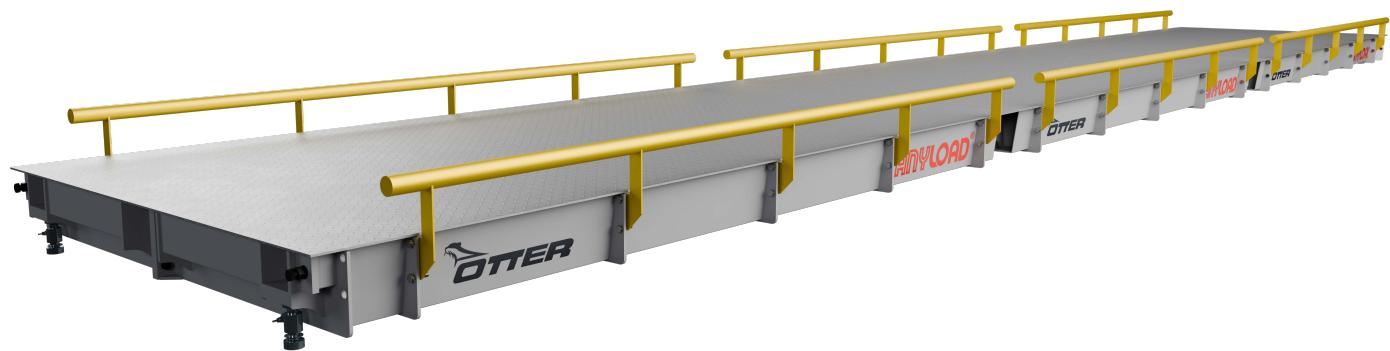


ANYLOAD®

OTTER

Truck Scale
Installation Guide



1-855-269-5623
www.anyload.com

INSTALLATION GUIDE



Anyload Weigh and Measure Inc.

Website: www.anyload.com

Email: info@anyload.com

North America Toll-Free: 1-855-ANYLOAD (269 5623)

All information contained in this publication is, to the best of our knowledge, accurate and complete at the time of release. ANYLOAD reserves the right to make changes to the technology, features, specifications, and design of the equipment without prior notice.

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⚠ Safety Notice ⚠

IMPORTANT: READ BEFORE PROCEEDING

The assembly and installation of truck scales involve complex procedures that require strict adherence to safety standards. This guide provides essential instructions for safely assembling and installing truck scales.

Failure to follow these guidelines may result in serious injury, property damage, or death.

1. Qualified Personnel Only:

The assembly and installation of truck scales should only be performed by trained and authorized personnel. All workers involved must have the necessary technical expertise and understanding of load-bearing structures, electrical systems, and safety protocols.

2. Personal Protective Equipment (PPE):

All personnel must wear appropriate PPE at all times during the assembly and installation process. This includes, but is not limited to, hard hats, safety glasses, gloves, steel-toed boots, and high-visibility clothing.

3. Site Preparation:

Ensure that the installation site is clear of obstructions, level, and properly graded. Verify that all underground utilities have been identified and marked to avoid accidental damage.

4. Heavy Equipment and Lifting:

Use appropriate lifting equipment, such as cranes or forklifts, to handle heavy components. Ensure that all lifting gear is properly rated for the weight of the components being handled. Always follow safe lifting practices to prevent accidents.

5. Load-Bearing Safety:

Truck scales are load-bearing structures. Proper assembly is critical to ensure the scale can safely support the maximum load it is designed to handle. All components must be installed according to the specifications provided in this guide. Any deviation may compromise the structural integrity of the scale.

6. Electrical Safety:

Truck scales often incorporate electrical components for weighing systems. Ensure that all electrical connections are made by a qualified electrician and comply with local electrical codes. Power should be turned off at the source during installation to prevent electrical shock.

7. Weather Conditions:

Avoid assembly and installation during adverse weather conditions such as extreme heat, heavy rain, snow, high winds, or lightning. Wet or icy conditions can create slip hazards and reduce the effectiveness of tools and equipment.

8. Load Testing:

After installation, the truck scale must be load-tested to ensure it operates correctly under load. This testing should be performed according to the procedures outlined in this guide and only by qualified personnel.

9. Regular Inspections and Maintenance:

Once installed, truck scales require regular inspections and maintenance to ensure ongoing safe operation. Follow the maintenance schedule provided in this guide to address any wear and tear or potential issues before they become hazardous.

10. Emergency Procedures:

Ensure that all personnel are familiar with emergency procedures, including the location of first aid kits, fire extinguishers, and emergency contact numbers. In case of an emergency, stop all work immediately and follow established safety protocols.

Disclaimer:

ANYLOAD Weigh & Measure Inc. is not liable for any accidents, injuries, or damages resulting from assembly, installation, or failure to follow the safety guidelines provided in this guide. The responsibility for safe assembly and installation lies with the customer and/or installation personnel.

All information contained in this publication is, to the best of our knowledge, accurate and complete at the time of release. ANYLOAD reserves the right to make changes to the technology, features, specifications, and design of the equipment without prior notice.

For further guidance or clarification, please contact ANYLOAD technical support before proceeding with the installation.

Indicative Marking	Significance
⚠ WARNING ⚠	Warns of a dangerous situation which will result in serious physical injury

	or death if not avoided.
⚠ CAUTION	Warns of a dangerous situation which could result in physical injury or death if not avoided.
Notice	Failure to comply with information with this marking may lead to minor injury and/or damage to property if not avoided.
❗ Important	Important information about the product.
 ⓘ NOTE	Application notes, tips and other information that may be helpful.
<i>For emphasis (Italics)</i>	Italics are used to emphasize key information.

	⚠ WARNING ⚠ Only allow trained professionals to install or service this equipment. Use caution when conducting checks, tests, and adjustments that require power to be on. Neglecting these safety measures may lead to serious bodily harm.
---	---

	⚠ WARNING ⚠ Disconnect all power to this unit / system, lock out power switches, and wait for at least 30 seconds before installing, servicing, cleaning, or removing the fuse. Neglecting these safety measures may lead to serious bodily harm and or damage to equipment.
---	---

	⚠ CAUTION - DANGER OF BODILY HARM OR PROPERTY DAMAGE <ul style="list-style-type: none"> Use appropriate lifting and jacking equipment to ensure safe and stable lifting. Make sure the equipment is in good working condition and has the necessary load capacity. When a module is being moved, avoid placing any body parts between the module and any other surface. If you must position any body parts beneath a module, ensure the module is securely supported to prevent any movement.
--	--

	⚠ CAUTION - MINIMIZE RISK OF BODILY HARM <ul style="list-style-type: none"> Do not replace more than one load cell at a time. Wear appropriate personal protective equipment (PPE) such as gloves and steel-toed shoes when handling load cells and weighing systems. Keep the scale area as clean and clear of debris or obstructions as possible to minimize the risk of slips, trips, or falls during installation or servicing.
---	---

	⚠ CAUTION - RISK OF COMMUNICATION FAILURES <ul style="list-style-type: none"> Make sure that no stray conductors are left unsecured. Exposed strands of wires can lead to communication failures if they bridge the connection in the terminal block. Keep all electrical components absolutely dry on the inside and as dry as possible on the outside. When handling load cell cables, always exercise care to avoid potential damage. Be mindful of moisture exposure, as it can compromise a cable's integrity and functionality. To prevent pinching, cuts, or abrasions, ensure that the cable is routed safely and securely, away from sharp edges and moving parts.
---	---

1 - Overview

1.1 Scale Body General Installation

1.1.1 Exploded View

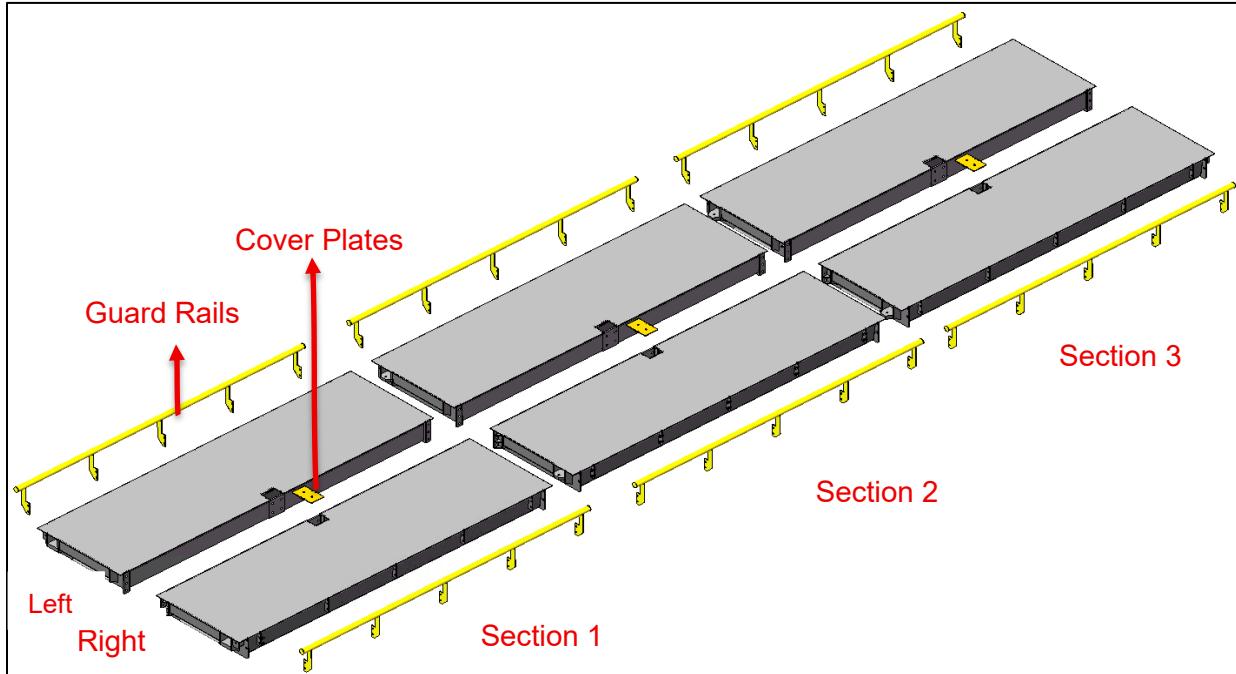


Figure 1: Exploded view of all major truck scale structural components

1.1.2 Assembled View

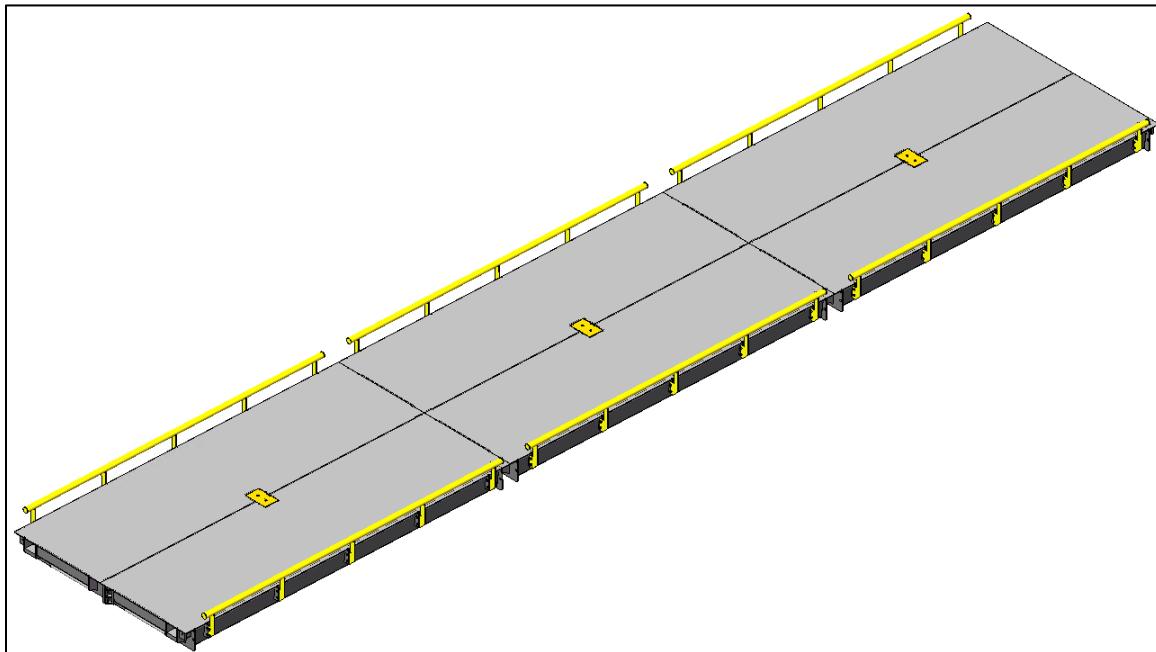
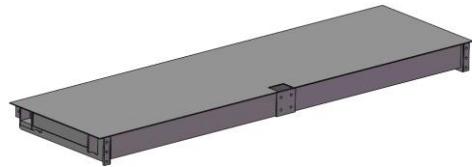


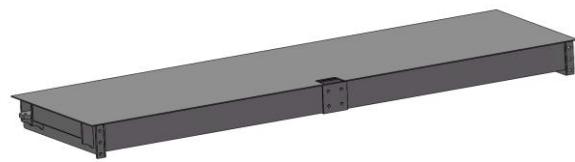
Figure 2: Assembled view of the truck scale structure

2 - Components

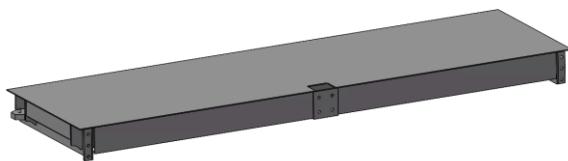
2.1 Scale Body Components



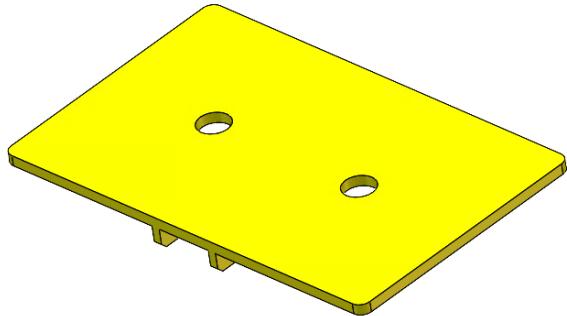
Scale Body1 (2 pcs)



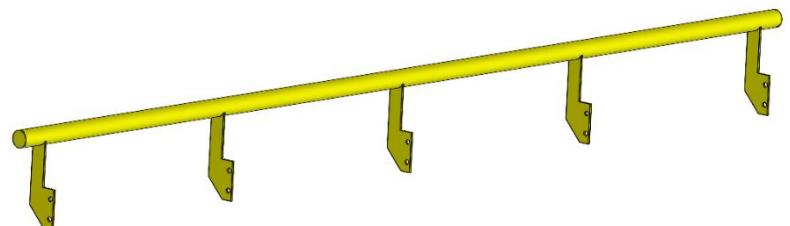
Scale Body 2 (2 pcs)



Scale Body 3 (2 pcs)



Cover Plate 1 (3 pcs)



Guard Rail (6 pcs)

2.2 Load Cell & Weigh Module Components

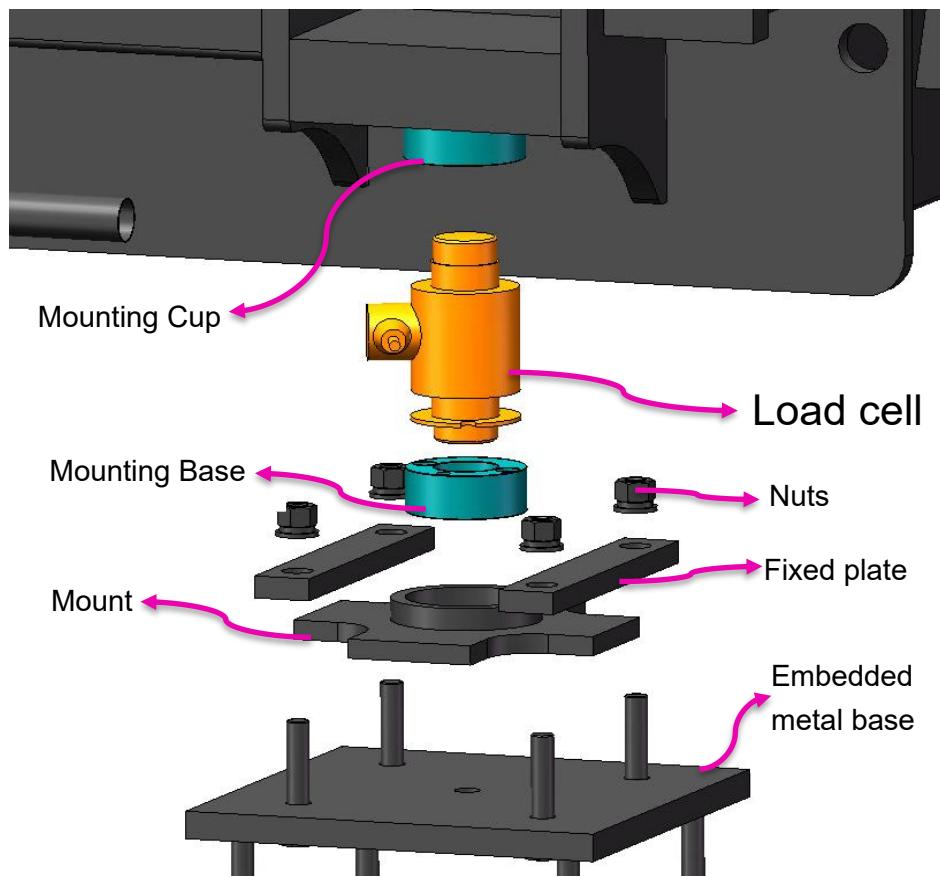


Figure 3: Exploded view of all the components of the load cell and weigh module

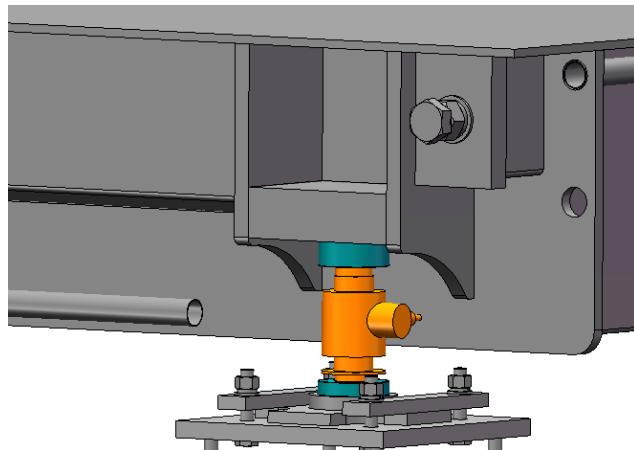


Figure 4: Assembled view of the load cell and weigh module.

Quantity: 6 sets

Notice

DO NOT cut the cable or handle the load cell by its cable. Reducing the cable length alters the resistance, which can result in a distortion of the signal. This distortion may lead to inaccurate measurements and affect the overall performance of the load cell.

2.3 Assembly Hardware

2.3.1 Hardware List

Item	Description	Specification	PCS	Remarks	Torque ^{1, 2}
1	Shim A	Thickness 2 mm	16	Paint color is gray (Color code is RAL7004)	N/A
2	Shim B	Thickness 5 mm	16	Paint color is gray (Color code is RAL7004)	N/A
3	Junction Box	J04 or J08	2	Four-channel excitation trim w/ surge protection, fiberglass case	N/A
4	Grounding Strap A	STRIP-7.9-200mm	2	Grounding Junction Box to Truck Scale	N/A
5	Grounding Strap B	STRIP-16-350mm	4	Grounding Truck Scale to Earth	N/A
6	Load Cell Weigh Module	Custom ANYLOAD component	8	Support Weigh Module	N/A
7	M6X20 Hexagonal Head Bolt	GB/T5783-2016-M6X20	2	Each bolt with 1 plain washer, 1 spring lock washer & 1 nut, zinc-plated, grade 8.8, full thread for connecting Grounding Strap A	5Nm
8	M10X25 Hexagonal Head Bolt	GB/T5783-2016-M10X25	8	Each bolt with 1 plain washer, 1 spring lock washer & 1 nut, zinc-plated, grade 8.8, full thread for connecting Grounding Strap B	16Nm
9	M20X60 Hexagonal Head Bolt	GB/T5783-2016-M20X60	60	Each bolt with 2 plain washers, 1 spring lock washer & 1 nut, zinc-plated, grade 8.8, full thread for joining Guard Rail	137Nm
10	M30X100 Hexagonal Head Bolt	GB/T5783-2016-M30X100	30	Each bolt with 2 plain washers, 1 spring lock washer & 1 nut, zinc-plated, grade 8.8, full thread for joining Scale body	137Nm
12	M16 Nuts	GB/T6170-2015-M16	32	Tie down for Mounting plate with 1 plain washer, 1 spring lock washer, zinc-plated, grade 8.8, full thread	30Nm (Lock Nut)
13	M30X110 Hexagonal Head Bolt	GB/T5783-2016-M30X110	4	Each bolt with 1 plain washer, 1 nut, 1 spring lock washer, zinc-plated, grade 8.8, full thread for bumper bolt	30Nm (Lock Nut)

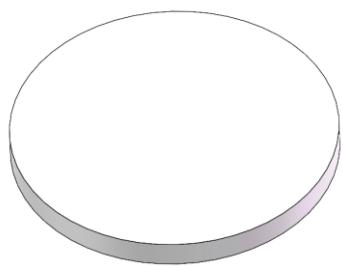
Notice

Quantities of screws, bolts, washers and nuts provided should exceed the listed count to provide for spares and prevent undercounting. If any components are defective or insufficient in quantities, please contact ANYLOAD for replacements.

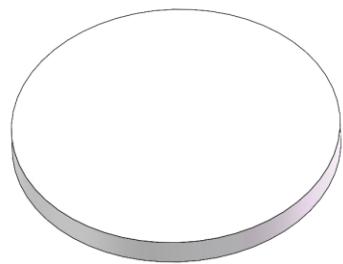
¹ Recommended torque value while using calibrated torque wrench.

² Conversion: 1 newton meter = 0.7375621493 foot-pound

2.3.4 Hardware Details



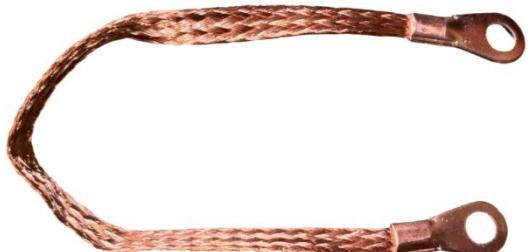
Item 1:
Shim A



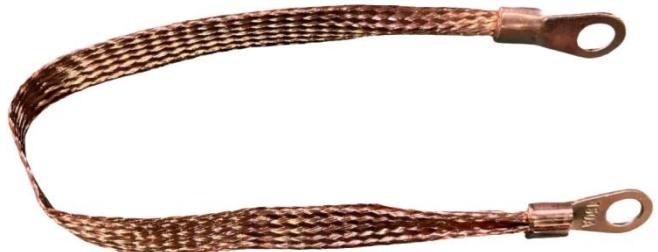
Item 2:
Shim B



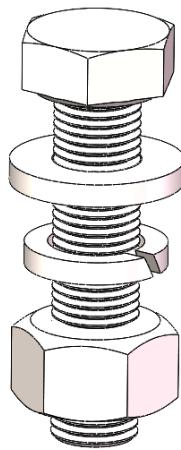
Item 3:
Junction Box



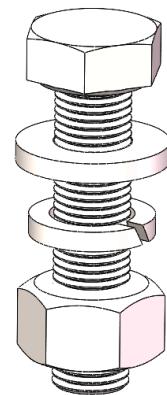
Item 4:
Grounding Strap A



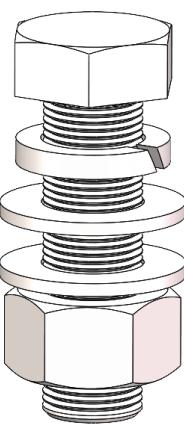
Item 5:
Grounding Strap B



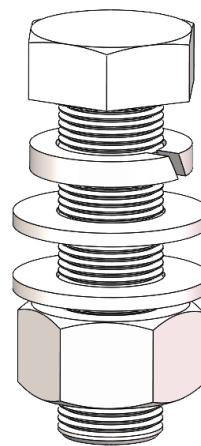
Item 6:
M6X20 Hexagonal Head Bolt & Nut



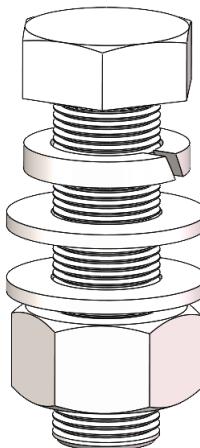
Item 7:
M10X25 Hexagonal Head Bolt & Nut



Item 8:
M30X100 Hexagon Head Bolt & Nut



Item 9:
M30x110 Hexagonal Head Bolt & Nut

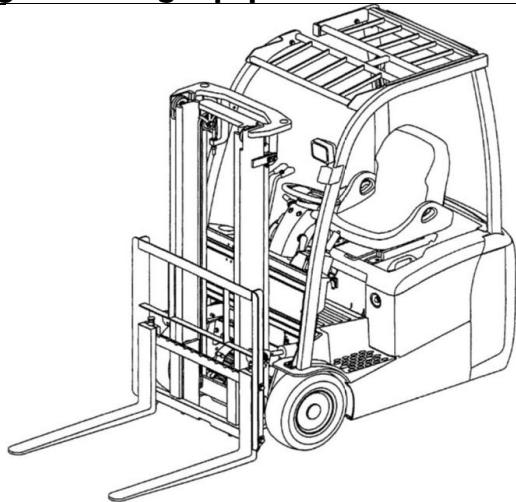


Item 10:
M20X60 Hexagon Head Bolt & Nut

3 - Truck Scale Assembly

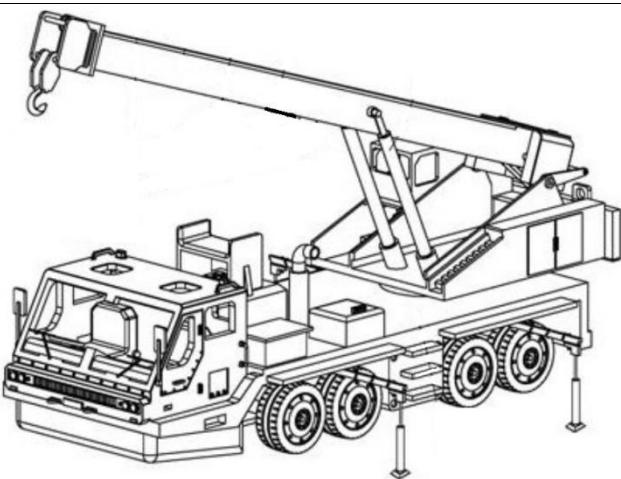
3.1 Preparations

Lifting/Unloading Equipment:



Forklift

Max weight of any included pallet is 1.5t
(~3.3Klb)



Crane

Max weight of a single scale body is 3.3t (~7.3Klb).
Details listed in "2.1 Scale Body Components".

Scale Size (Width x Length)	Approx. Weight - 10m Deck		Approx. Weight - 12m Deck	
	per Scale Body (half)	per Section	per Scale Body (half)	per Section
3 x 16 m	1.5t	3.0t	1.6t	3.2t
3 x 18 m	1.6t	3.2t	1.9t	3.8t
3 x 20 m	1.4t	2.8t	1.6t	3.2t
3 x 21 m	1.5t	3.0t	1.7t	3.4t

Key Assembly Equipment:

- Impact Wrench (electric/pneumatic) + sockets
- Air Compressor (6-8 CFM @ 90 PSI min, if pneumatic)
- Torque Wrench (100-1000 ft-lb capacity)
- Hydraulic Bolt Tensioner/Torque Multiplier (M24/M30 bolts)

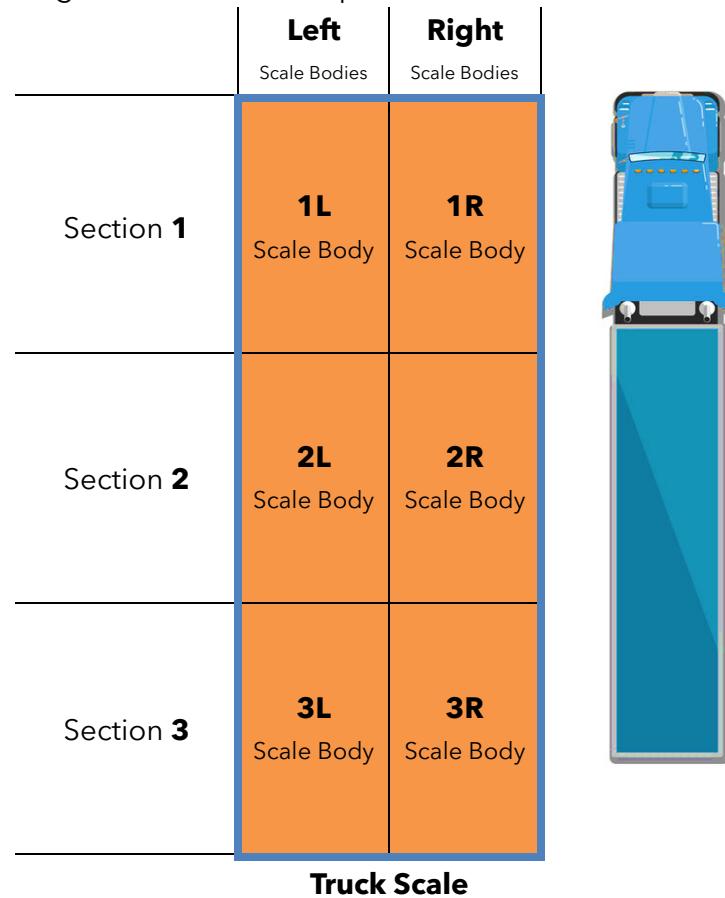
- Socket Wrench Set (10mm-46mm range)
- Combination Wrench Set (10mm-46mm range)
- 4 Chains/Cables (8 m each minimum) with lifting hooks/clevises

Assembly Site Requirements:

- (1) Level ground that can support heavy equipment.
- (2) Sufficient space for:
 - a. Max 40'OT Container
 - b. Lifting and moving equipment
 - c. Staging of all scale parts for assembly, storage
 - d. Access by a container/flatbed truck

Assembly Terminology:

From a top-down view, a pair of corresponding Left and Right scale bodies are joined together form a scale section. Sections are joined together to form a completed scale.



ASSEMBLY Time Estimate: *

Task	Estimated Time
Unloading - Pallet(s), subframe, guardrails	30 minutes
Unloading - Scale bodies	1 hour
Assembly - Scale Sections	1 hour
Assembly - Guardrails	30 minutes
Loading for trucking or storage	30 minutes

Total: ~4.5 hours

INSTALLATION Time Estimate* **:

Task	Estimated Time
Place subframe and scale sections into position	1 hour
Load cell mounts installation & anchoring	3-4 hours
Cabling and electrical wiring	2-3 hours
Connect indicator and peripherals	2-3 hours
Calibration & Certification	Varies depending on jurisdiction

Total: ~8-12 hours

* Higher bound estimate using 3x18 Portable, crew of four trained technicians.

** Time requirements generally decrease with experience and process optimization.

3.2 Unloading

Container Diagram

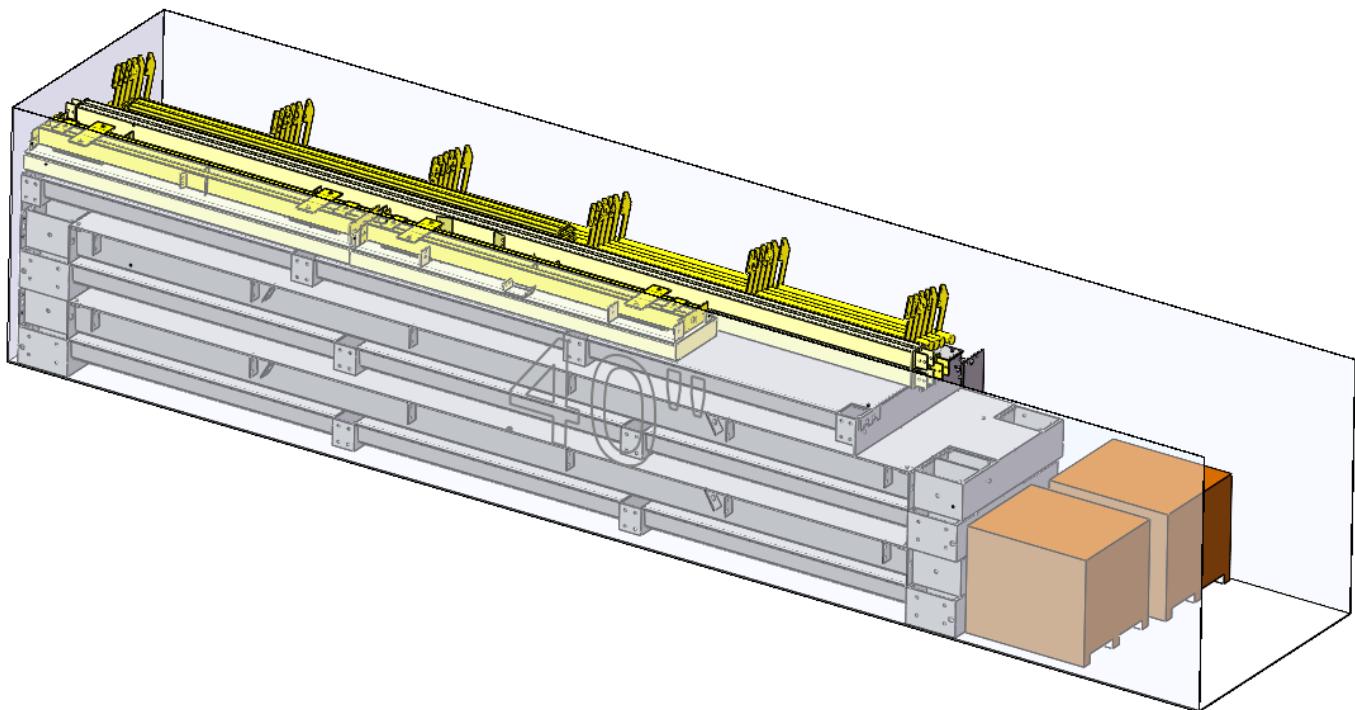


Figure 5: Container Packing Diagram

ANYLOAD truck scales are generally loaded and shipped in 40-OT high cube open top shipping container.

(Shipping will also be completed using 20-OT containers when dimensions allow.)

- 20-OT Container Dimensions: Length 6.1 m, Height 2.59 m, Width 2.44 m
- 40-OT Container Dimensions: Length 12.2 m, Height 2.59 m, Width 2.44 m
- Maximum Container Payload Capacity: 26,630 kg

The container is prepacked in a way that optimizes for efficient unloading. Guardrails and subframe (if applicable) are already lashed together with lifting straps and can be easily removed from the container with a crane.

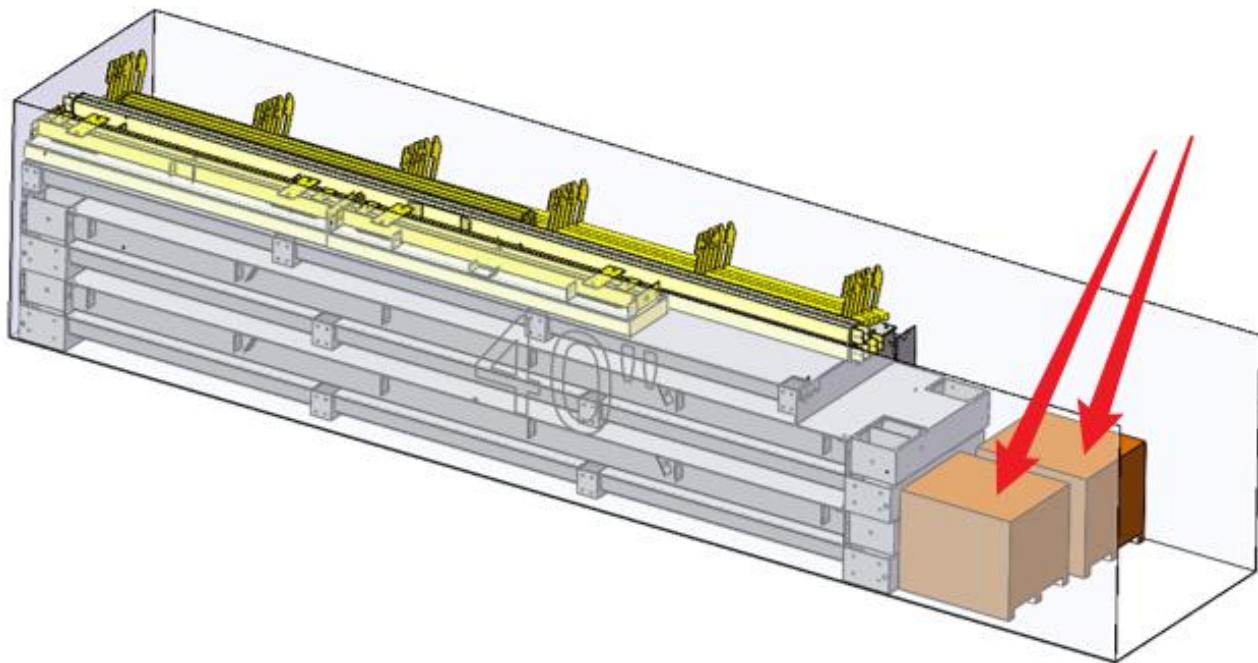
NOTE:

How to open a 40'OT shipping container:

1. **Release the Tarp Tension:** Locate the straps/buckles securing the tarp at the bottom sides of the container. Carefully loosen or unclip the straps starting from one end and work your way to the other. Avoid sudden releases to maintain control.
2. **Remove the Tarp:** Climb a ladder (if needed) to reach the top of the container. Roll tarp back, from one end to the opposite end, or fold it in sections. Ensure the tarp doesn't snag on any sharp edges.
3. **Open Container Doors:** Disengage the locking bars by rotating the handles outward.
4. **Securing the Tarp:** If possible, secure the rolled tarp to the container, preventing it from unrolling or being blown away by wind.

3.2.1 Pallets

Small components and other loose equipment are stored in pallets at the entrance of the container. Use a forklift to first unload the pallet(s).



3.2.2 Subframe & Guardrails

Lifting straps will be supplied for the unloading of subframe and guardrails.



3.2.3 Scale Body Lifting

Horizontal Lifting:

M20 Class 12.9 eyebolts (4 pcs) are provided for a crane to lift and unload scale sections by hook.

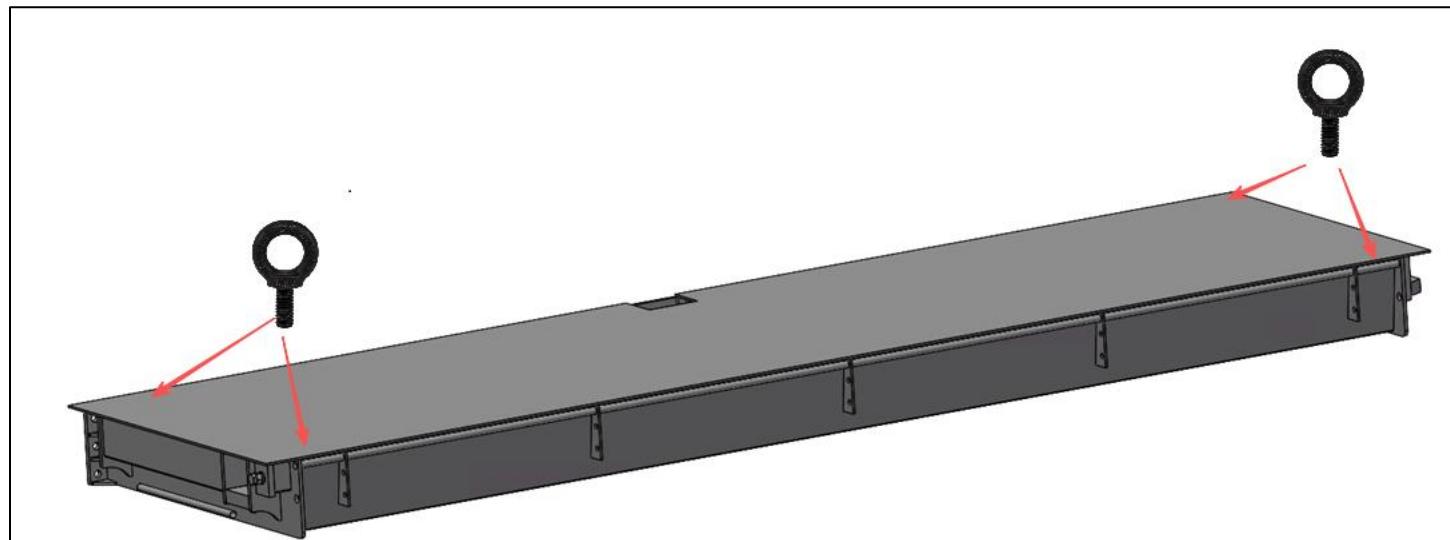


Figure 6 – Method A: Lifting each scale body with provided eyebolts.

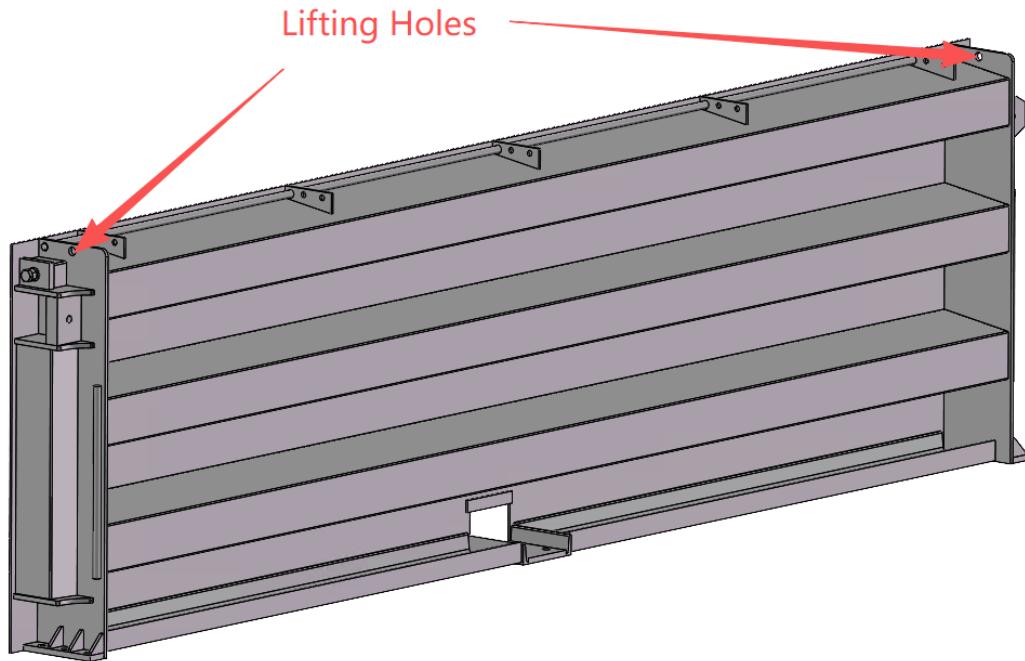


Vertical Lifting

ANYLOAD[®]

Depending on the truck scale configuration or if there are special container packing requirements (such as when fitting in parts from multiple truck scales into one container), scale bodies may sometimes be stacked vertically in the container during shipment.

For any scale body that is packed vertically, the side lifting holes can be used to unload. Hooks or shackles can be attached to the side lifting holes.

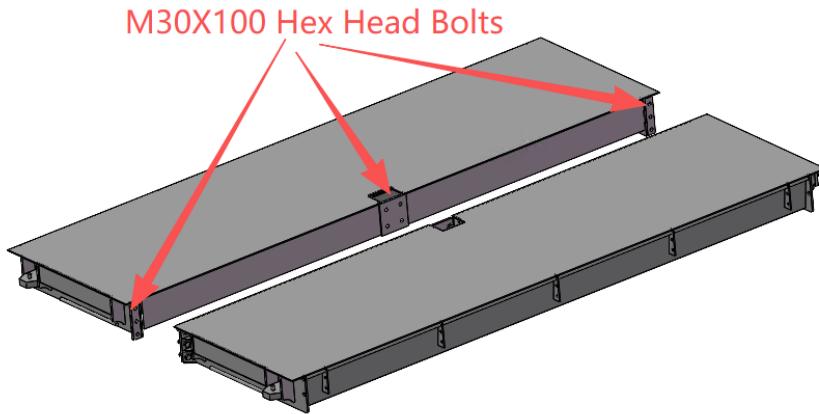


3.3 Assembly

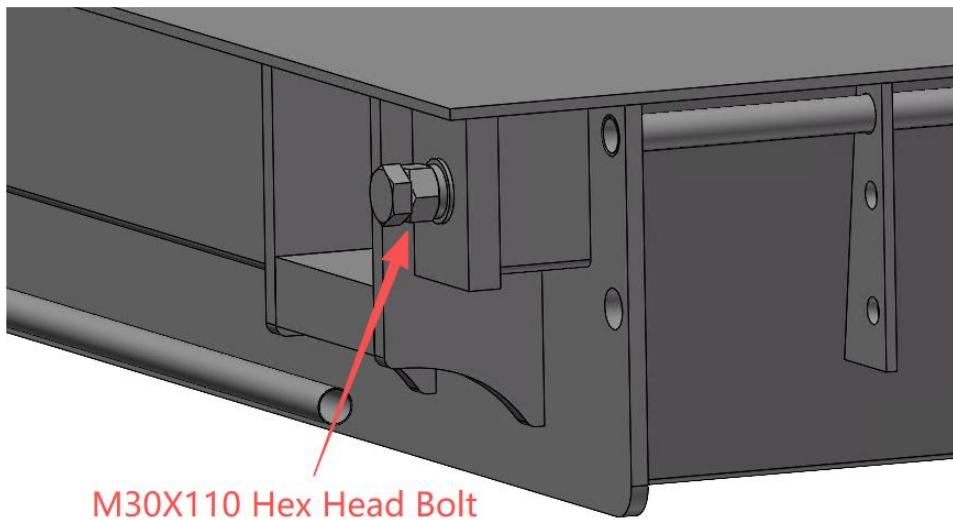
3.3.1 Permanent Structure Assembly

(1) **Join Left and Right Scale Body together:** Align the corresponding Left and Right pair of scale bodies according to the identifier tag (i.e., **1L** with **1R**, etc.).

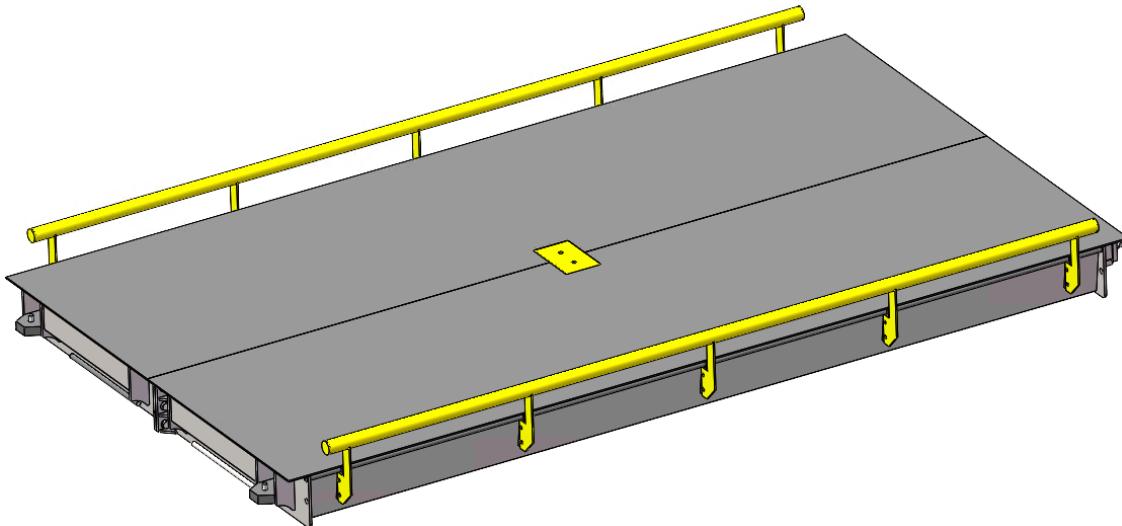
M30X100 Hex Head Bolts (10 pcs) with two plain washers, one spring washer, and one nut.



(2) **Install Bumper Bolts:** Fasten M30X110 Hex Head Bolt (4pcs) (with one nut one plain washer and one spring washer to secure it) to the four corners of the truck scale. This step is recommended, but optional if the foundation/ramp is within sufficient dimensional tolerances.



(3) **Install Guard Rails:** M20X60 Hex Head Bolts (20pcs) with two plain washers, one spring washer, and one nut for each bolt.



(1) Repeat this assembly process for the other Scale Sections using the paired scale bodies.

(2) Assembly complete and the scale is now ready for on-site installation (subframe notwithstanding). It may be stored or transported to the installation site.

(3) Each completed scale section can be lifted for transportation/installation by:

- Dedicated angled lifting holes welded onto the sides of the scale section which allow lifting hooks or shackles to be attached. (Recommended)
- Eye bolts supplied with the scale used during the initial scale unloading from the container that are screwed into the top deck.
- Attaching four lifting straps to the guardrails at the post, with four posts of a guardrail together allowing a completed scale section to be lifted.

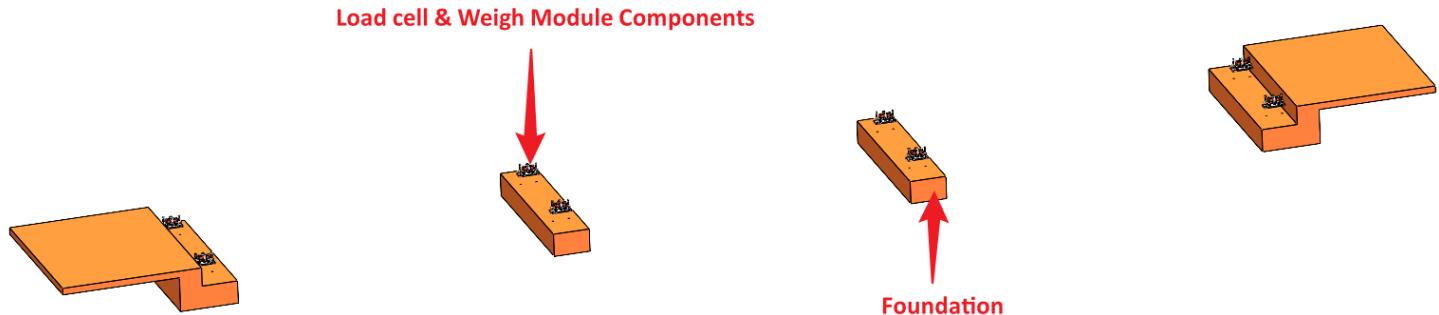
⚠ WARNING ⚠

Loads can detach from the crane hook, shackle, or lifting eye if proper lifting procedures are not strictly followed. A falling load presents a serious risk of severe injury or death. Always ensure that the crane's designated Working Load Limit (WLL) is never exceeded during lifting operations.

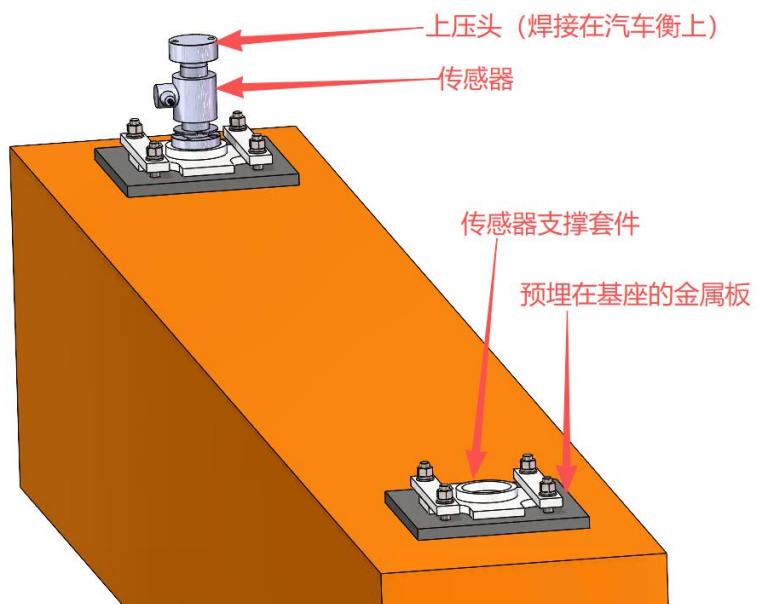
4 - Installation

4.1 Permanent Truck Scale Installation

Install Load cell & Weigh Module Components on the Foundation



Detailed view:



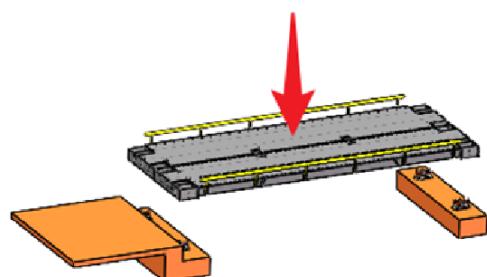
Important:

Please contact ANYLOAD to request specific reference or control-level foundation drawings.

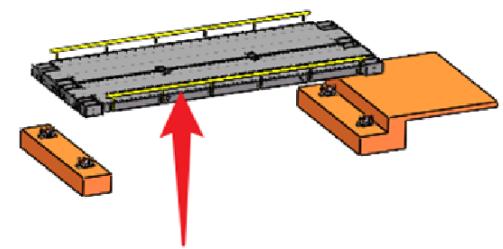
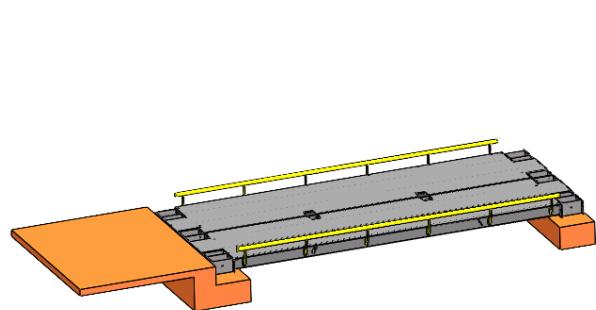
Install Scale Sections 1 & 3

Lift and place **Sections 1** and **3** onto the Foundation.

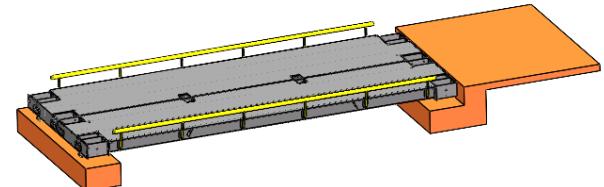
Left & Right Section



Result:

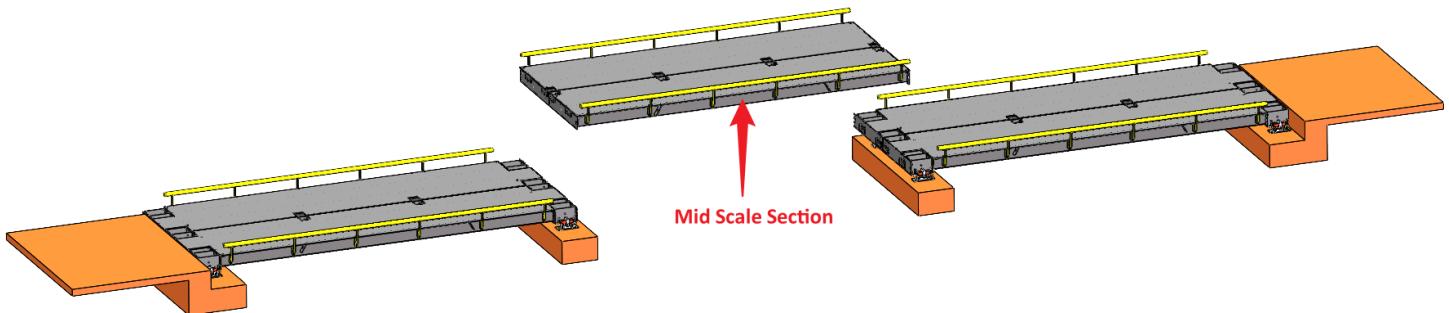


Left & Right Section



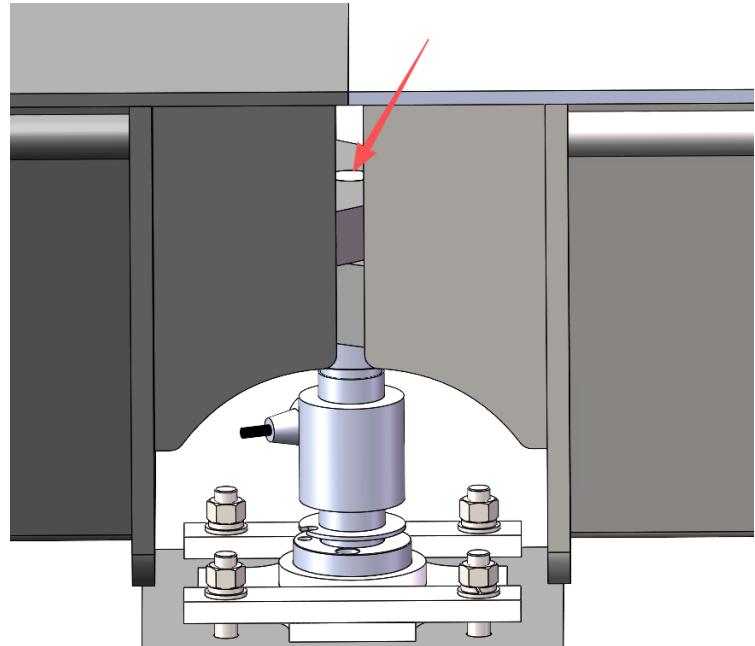
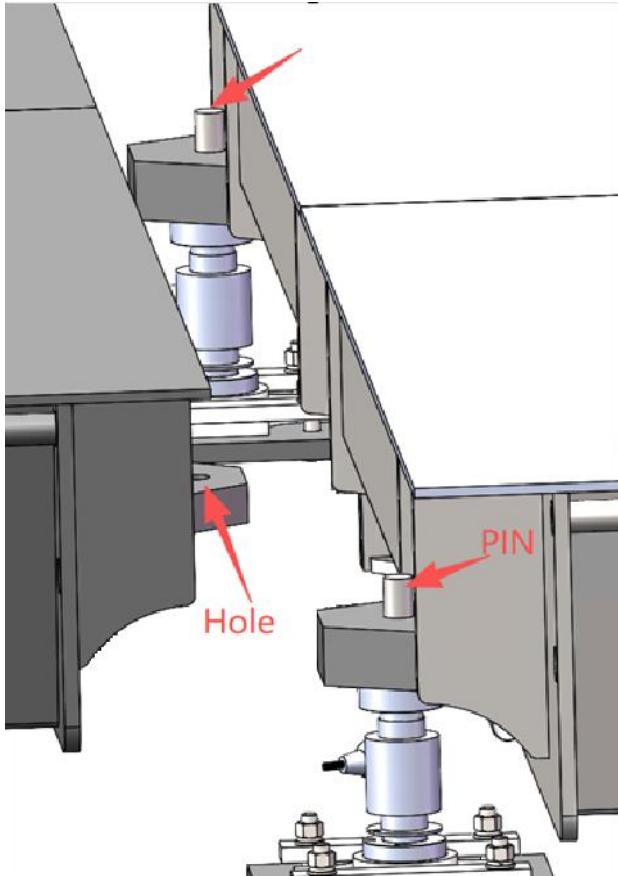
Install Scale Section 2

Lift and place Scale Section **2** between Scale Sections **1** and **3**, taking care to align the H-brackets.

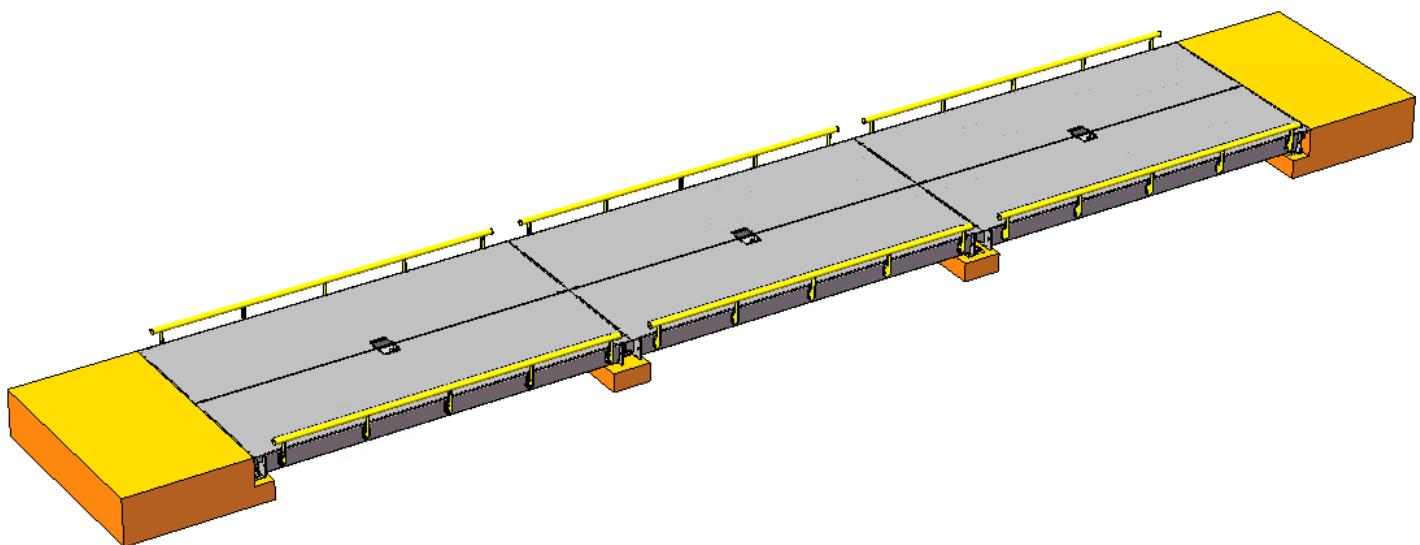


Join Scale Section 2 to Sections 1 and 3

Two large PIN join section 2 to sections 1 and 3 when lowered correctly on top without any additional hardware.

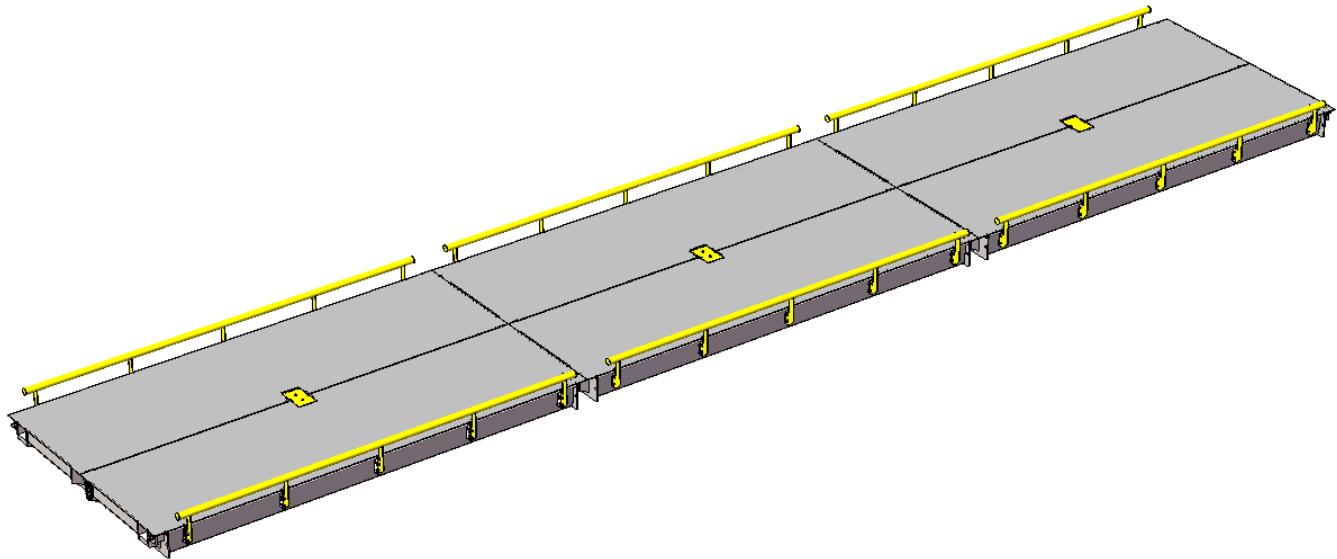


Assembled:



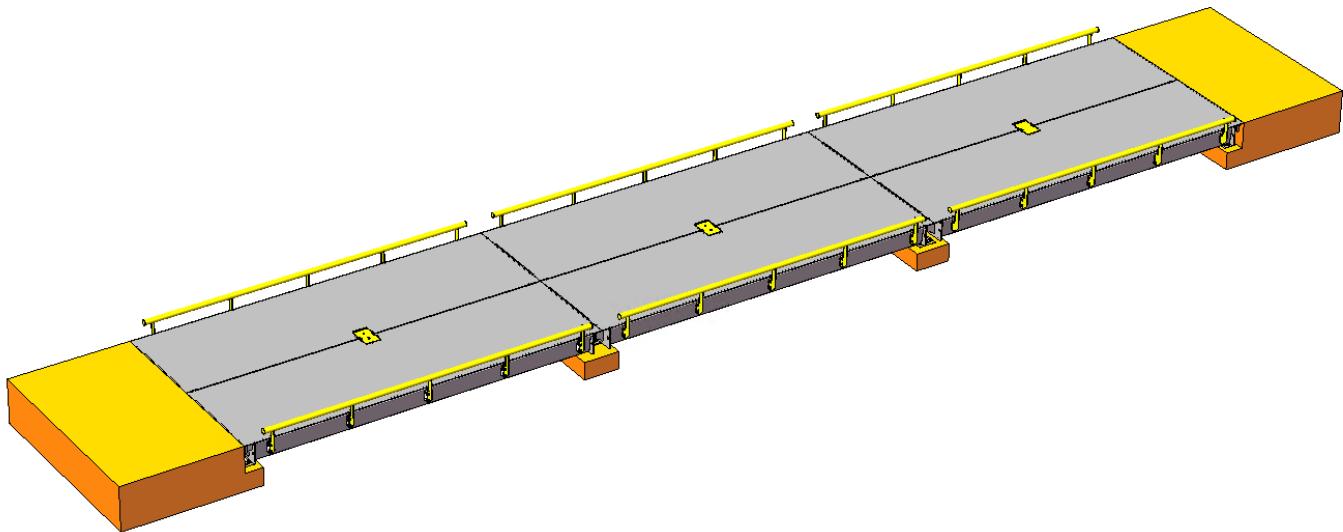
Complete installation

After finishing the cable installation (refer to Section 5 for more details), place **Cover Plate 1, 2, 3** (no bolts needed) over the exposed service pockets to complete the installation.

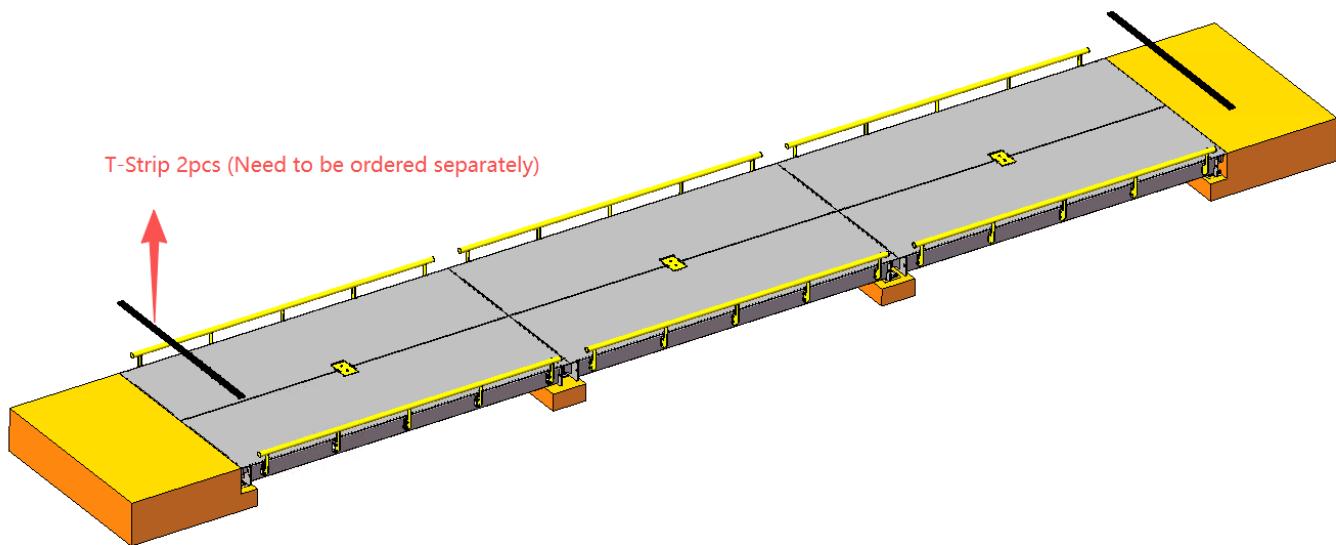


Complete the Mechanical Installation

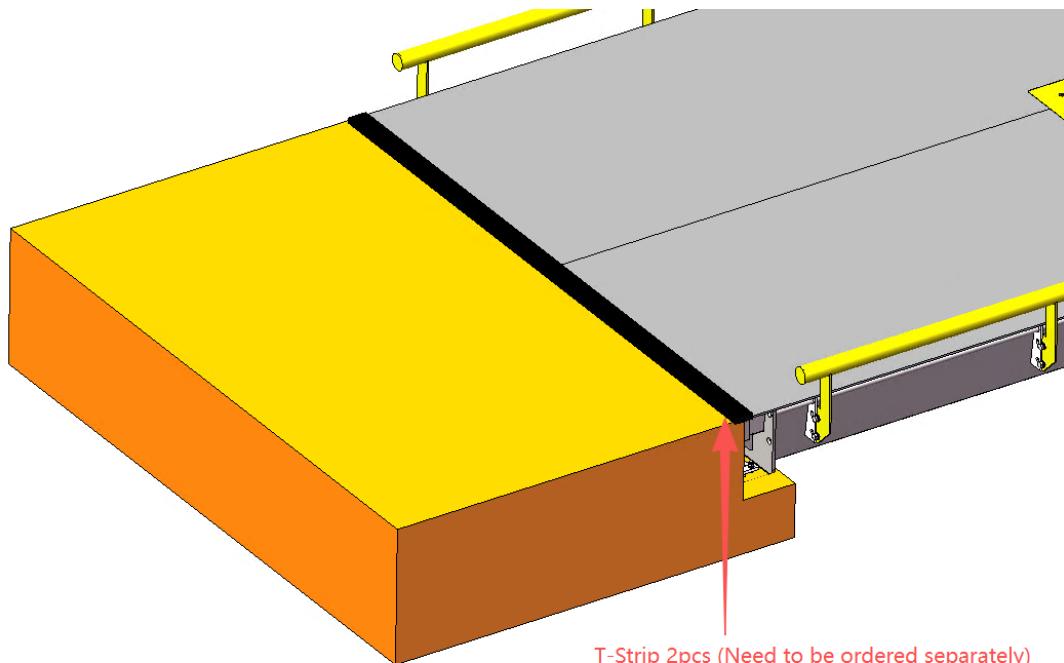
After completing the cable installation and wiring of the load cells and junction boxes, place the **Cover Plates** (no bolts needed) over the service pockets to complete the installation.



Insert rubber T-Strip between the scale body and end link to keep out any debris



Detailed View:



① NOTE:

Consult ANYLOAD for Rubber T-Strip product information.

⚠ WARNING ⚠

Do not exceed the rated and especially the breaking capacity of the load cell (refer to the product specifications) to prevent potential damage to the load cells or load application components.

5 - Load Cell and Junction Box

Wiring

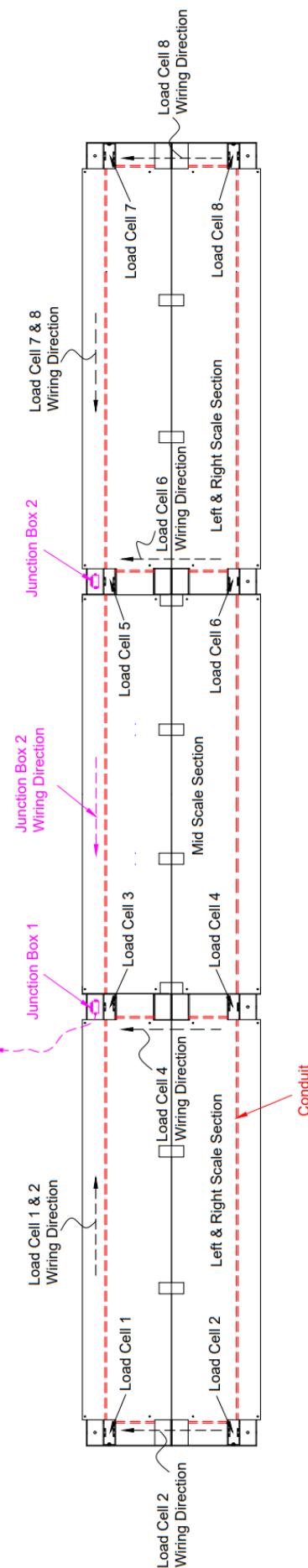
5.1 Load cell Wiring

Truck Scale Wiring Diagram

- The conduit is welded in the truck scale, the load cell cable passes through the conduit.
- The load cell cable must be relaxed and cannot be strained.

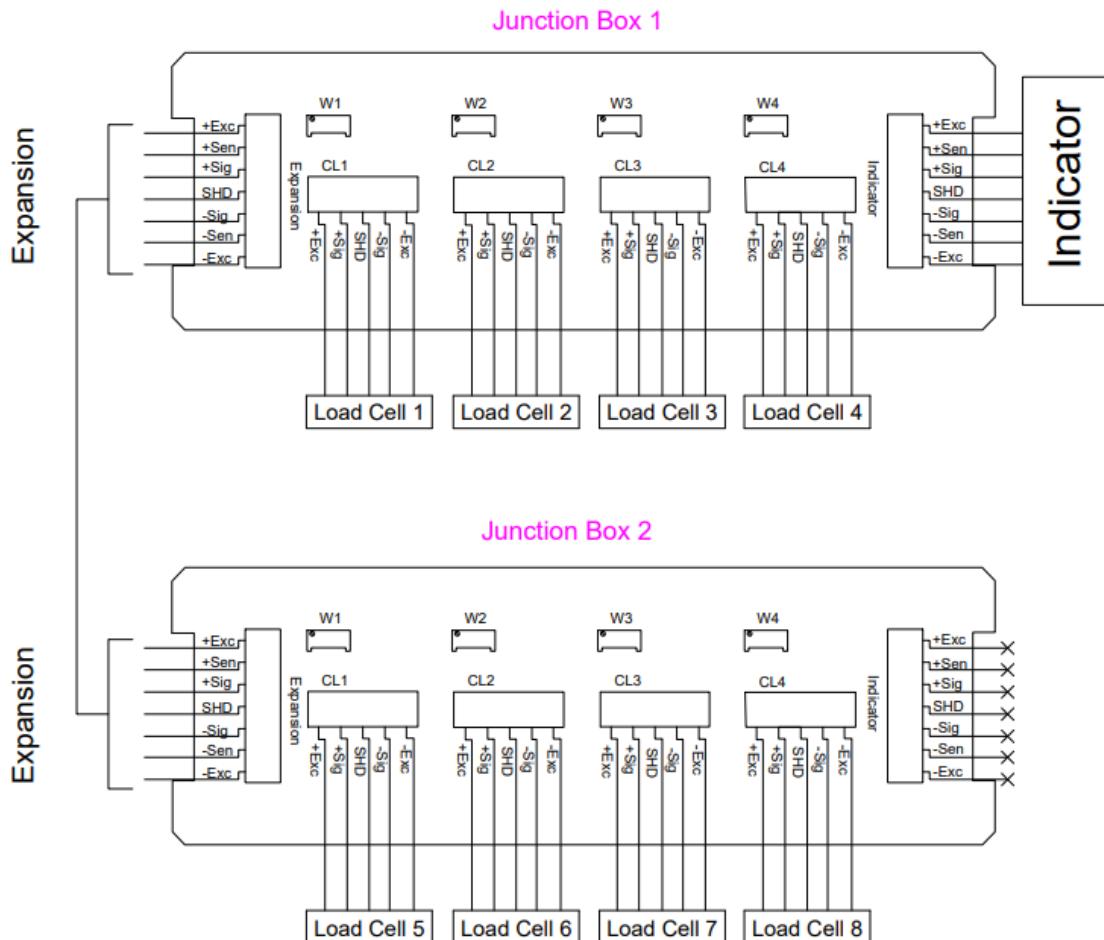
NOTE:

Cable armor supplied by Anyload (P/N#: CAHP20-1/2) can help to shield the cable from pinch, abrasion, rodent, and other damage that can compromise load cell performance.



5.2 Junction Box Wiring

Wiring Diagram



The Junction Box (ANYLOAD model **J04EP\J08EP**) has an earthing connection. Please connect the earthing connection to the truck scale body with the grounding strap included to protect from electrical transients.



NOTE:

For more information on ANYLOAD junction boxes, visit:

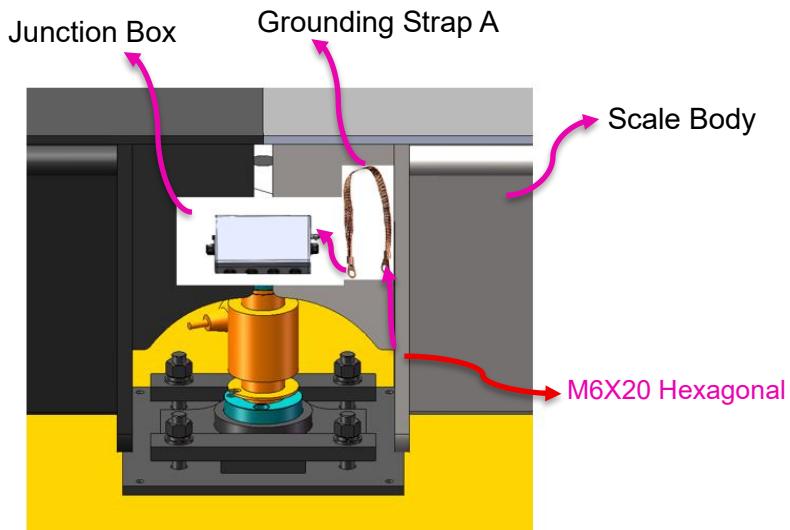
[J04EP-E, J04SP-E Junction Box - ANYLOAD Weigh & Measure](#)

[J08EP-E, J08SP-E Junction Box - ANYLOAD Weigh & Measure](#)

5.3 Grounding (Not Final)

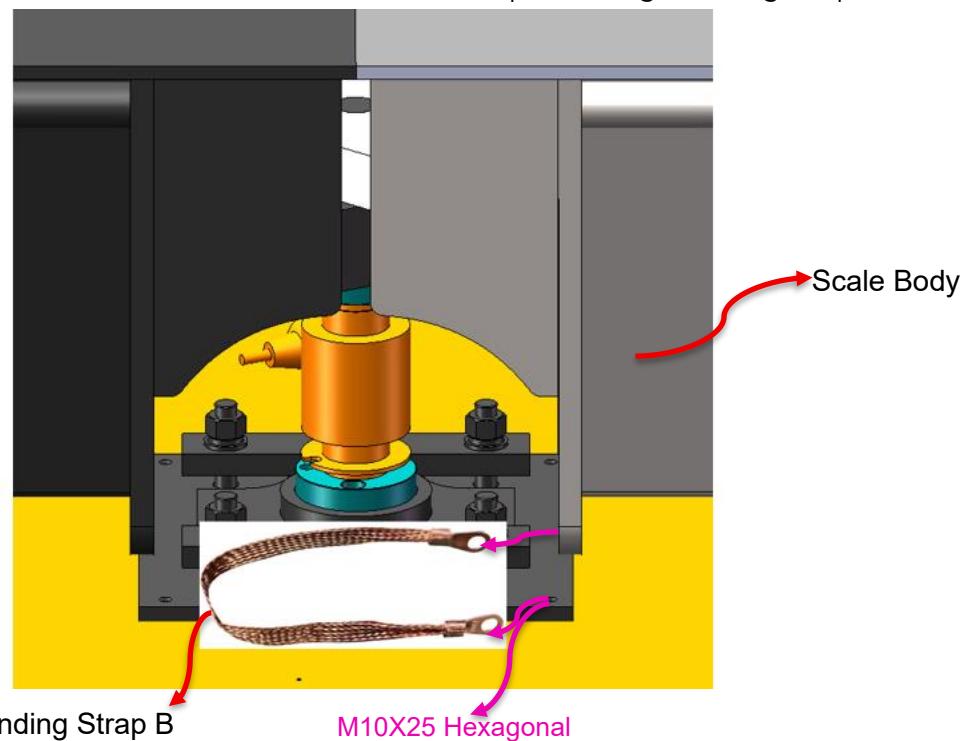
Junction Box Connect to Scale body

Each junction box should be connected to the Scale body with a provided grounding strap.



Scale Body Connect to Ground

Each scale Section should be connected to the Subframe with a provided grounding strap.



NOTE:

Load cells with built-in transient protection can provide additional resistance against electrical surges. For more information on ANYLOAD, visit: 106HS Canister Load Cell - ANYLOAD Weigh & Measure

6 - Truck Scale Disassembly

Permanent Truck Scale Disassembly

STEP M1-Remove cable

Disconnect all cables that connect to the junction boxes and between junction boxes.

① NOTE:

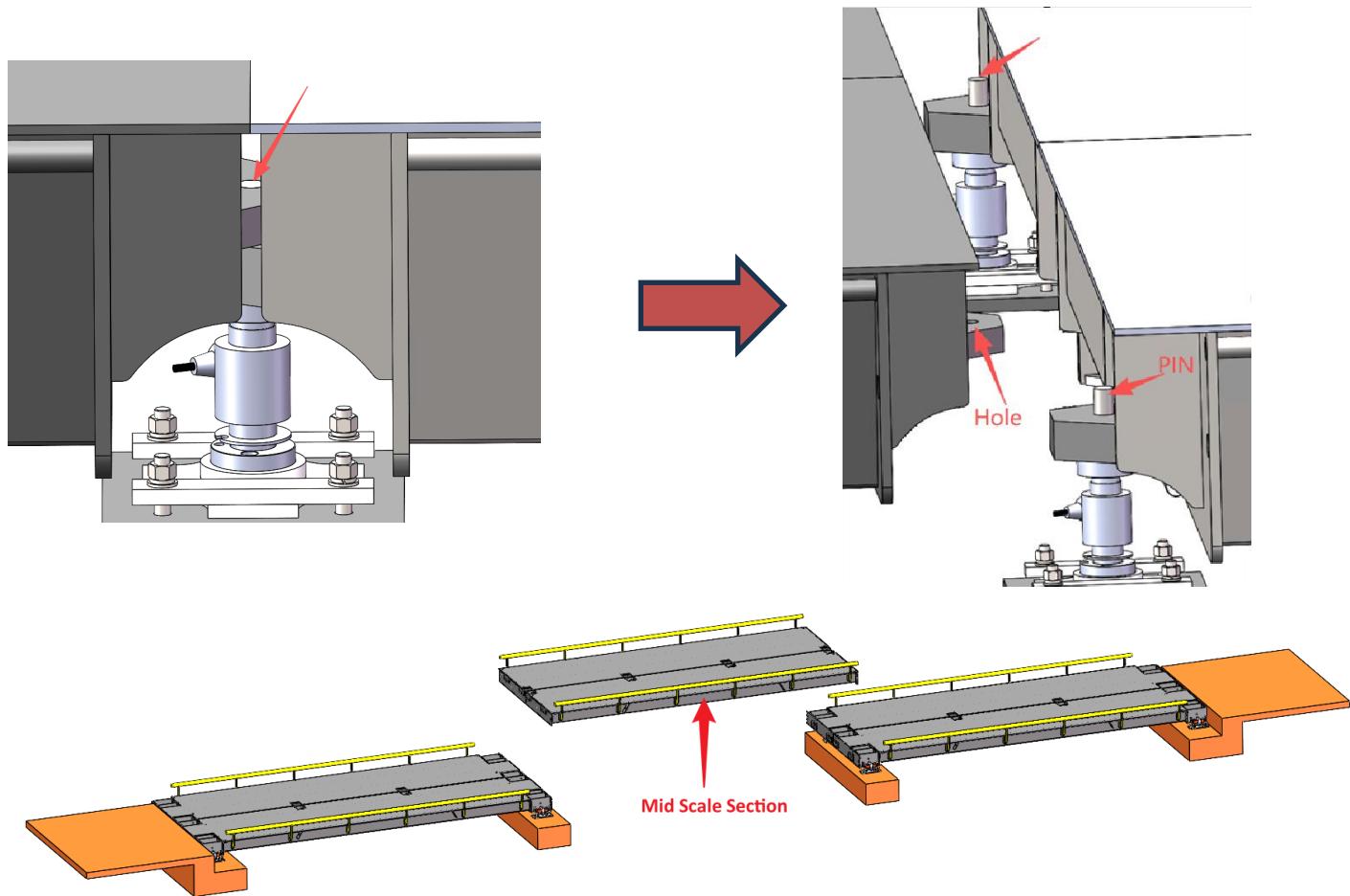
It is not obligatory to remove the cable from the load cell to junction box during general disassembly.

STEP M2-Lift Scale Section 2

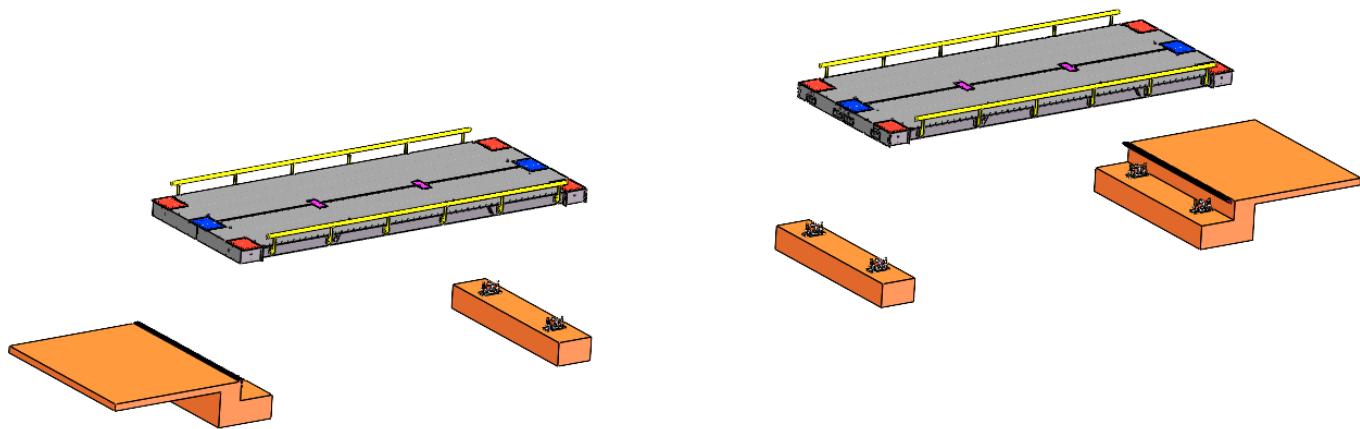
Lift Section **2** first, releasing it from the receiving **PIN** in Section **1** and **3**.

① NOTE:

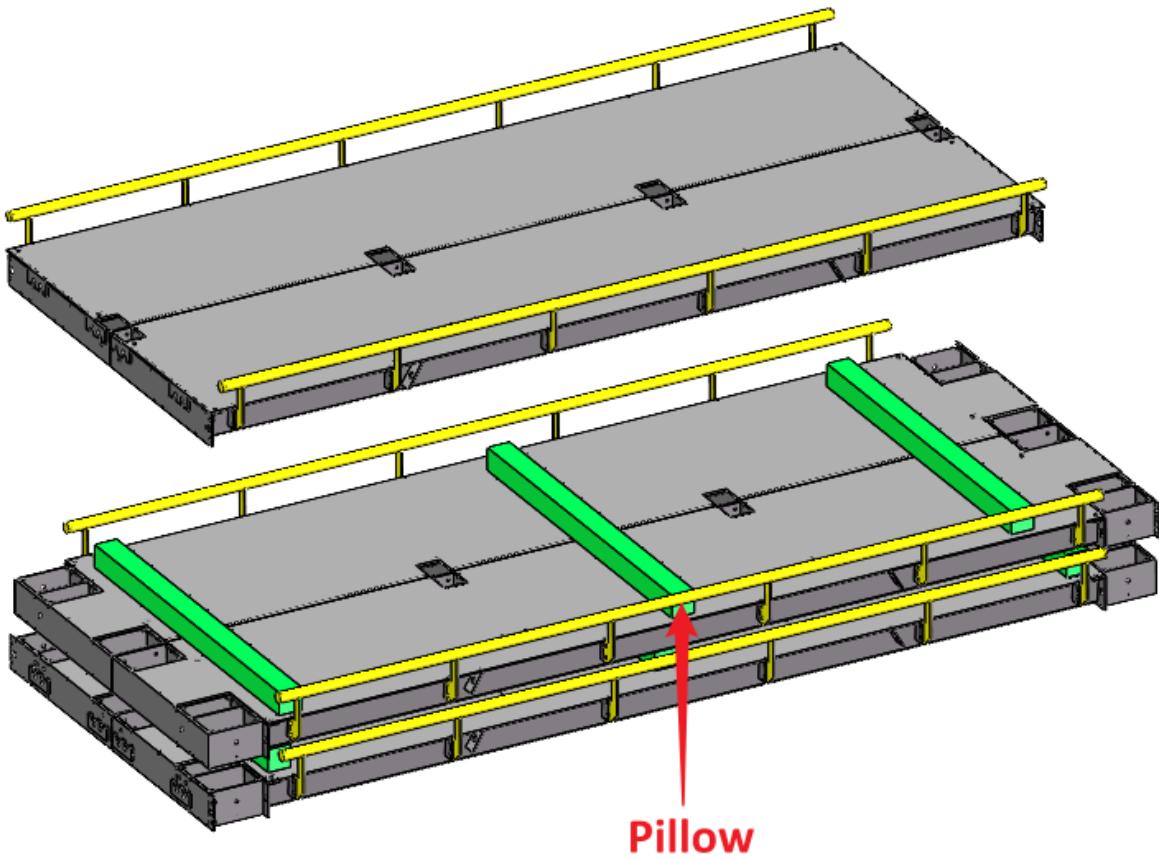
Before lifting Scale Sections 1 and 3, make sure all cables are disconnected and properly stowed away to avoid damage.



STEP M3-Lift Scale Section 1 and 3



STEP M4-Stack Scale Section for Shipment



- * Place three standard wooden dunnage blocks for each layer while stacking.
- * Before shipment, make sure all cover plates are removed and transported separately.
- * Guardrails can be removed to slightly reduce total width during transportation.

Scale Weight

Scale Size (Width x Length)	Approx. Weight - 10m Deck		Approx. Weight - 12m Deck	
	per Scale Body (half)	per Section	per Scale Body (half)	per Section
3 x 16 m	1.5t	3.0t	1.6t	3.2t
3 x 18 m	1.6t	3.2t	1.9t	3.8t
3 x 20 m	1.4t	2.8t	1.6t	3.2t
3 x 21 m	1.5t	3.0t	1.7t	3.4t

⚠ WARNING ⚠

Do NOT transport scale sections with the cover plate still installed. They may become dislodged during trucking and may pose a dangerous hazard on the road to other vehicles. To ensure the safety of all road users and prevent potential accidents, always remove cover plates and check for any loose components onboard before transporting scale sections.

7 - Component Specifications

7.1 Load Cell

106HS Canister Load Cell



Product Webpage:

[\(106HS Canister Load Cell - ANYLOAD Weigh & Measure\)](#)

SPECIFICATIONS TABLE			
Full Scale Output	2mV/V \pm 0.25%	Recommended Excitation	10V (15V Maximum)
Zero Balance	\pm 0.02mV/V	Insulation Resistance	> 2G Ω (50V DC)
Non-linearity	< \pm 0.023%	Temp. Compensation	-10°C to 50°C/14°F to 122°F
Repeatability	< \pm 0.023%	Safe Overload	150% of full scale
Hysteresis Error	< \pm 0.023%	Breaking Overload	300% of full scale
Creep in 30 minutes	< \pm 0.030%	Seal Type	Welded Seal
Input Resistance	700 Ω \pm 0 Ω	IP Rating	IP68
Output Resistance	705 Ω \pm 5 Ω	Element Material	2Cr13, Stainless Steel
NTEP 1:10 000 Class IIIL, Multiple Cell certified from 10t-50t		Cable Color Code	Exc+ Red Exc- Black Sig+ Green Sig- White Shield Bare
Certificate Number: 13-064A1			

NOTE:

Built-in Surge Protection, stainless steel, and Intrinsically Safe (FM-approved) versions can be provided with any truck scale order upon special request. Lead times may vary slightly.

7.2 Junction Box (J04, J08)

J04EP-E, J04SP-E, J08EP-E, J08SP-E Junction Box



Product Webpage:

J04EP-E, J04SP-E

[J04EP-E, J04SP-E Junction Box - ANYLOAD](#)

[Weigh & Measure](#)

J08EP-E, J08SP-E

[J08EP-E, J08SP-E Junction Box - ANYLOAD](#)

[Weigh & Measure](#)

- Lightning/Over voltage protection
- Preinstalled GORE breather vent
- Conformal coated circuit board
- Expansion port to/for additional J-Box
- IP rating: IP67

Note: Intrinsically Safe (FM-approved) versions are available upon special request.

SPECIFICATIONS TABLE	
Number of cells	2-8 single cells
Input Cable Fittings	M20: 6mm-12mm diameter cable
Output Cable Fittings	M20: 6mm-12mm diameter cable
Trimming Options	<u>Excitation</u> trim (J04EP, J08EP) <u>Signal</u> trim (J04SP, J08SP)
Enclosure Material	Fiberglass Reinforced Polyester
IP Rating	IP67

TRIMMING RANGE		
Load Cell Resistance	Signal Trim	Excitation Trim
350Ω	3.6% of output	5.4% of output
700Ω	6.3% of output	2.7% of output
1000Ω	8.0% of output	1.9% of output

NOTE:

Please specify when ordering if SIGNAL TRIM junction boxes are preferred.

Please Contact our Authorized Dealer for Technical Assistance:

Anyload Weigh & Measure Inc.

North America Toll Free: 1-855-ANYLOAD (269-5623)

Email: info@anyload.com

Website: www.anyload.com