



ZGM-6-5H | ZGHSA | ZGCM-HSA | ZGCM-48 | ZGCM-66

Floor & Ceiling Mounted Units

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Important Information

Read this Manual Before Starting to Work!

This information is necessary for the safe and efficient operation of the equipment.

This document should be stored with, or in the immediate vicinity, of the unit.

Zero-Gravity Document List

- 81000 – Preventative Maintenance Checklist
- 82000 – Uncrating Guide
- 83000 – Installation Guide
- 84000 – User's Guide

Zero-Gravity® Radiation Protection System is a registered trademark of TIDI Products, Inc.

United States Patents 7,973,299; 8,207,516; 8,558,204; 8,598,554 B2; 8,925,553; 8,933,426

For U.S. and Foreign Patent information, see [//go.tidiproducts.com/patents](http://go.tidiproducts.com/patents) Additional Patents Pending

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Pursuant to continuous product improvement, TIDI Products reserves the right to change the equipment design and technology at any time.

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Within the bounds of the legal requirements, the manufacturer is only responsible for the technical safety characteristics of this apparatus if the maintenance, repairs, and modifications to this apparatus are performed by TIDI Products or an approved TIDI Products representative.

The Zero-Gravity® Radiation Protection System can also be referred to as Zero-Gravity or Zero-Gravity System.

The Zero-Gravity Radiation Protection System is available in the following options:

- Floor Unit (ZGM-6-5H)**
- Monorail (ZGCM-48 and ZGCM-66)**
- Hinged Swing Arm (ZGHSA)**
- Monorail Hinged Swing Arm (ZGCM-HSA)**

This guide applies to Zero-Gravity Systems manufactured after November 2019. For models prior to November 2019, some features may not apply. Contact TIDI Products service for additional information.

System Identification

The uncrating instructions in this document refer to the Zero-Gravity® Radiation Protection System with the following identification:

- **Manufactured for:** TIDI Products, LLC
- **Product name:** Zero-Gravity® Radiation Protection System
- **Type designation:** Floor Unit (ZGM-6-5H), Hinged Swing Arm (ZGHSA), Monorail Hinged Swing Arm (ZGCM- HSA), Monorail 48 (ZGCM-48) or 66 inches (ZGCM-66)
- **Serial Number:** See Identification Tag
- **Sterile covers manufactured by:** TIDI Products, LLC
- **Authorized representatives:** See Declarations of Conformity.
- **Manufacture date:** See Identification Tag
- Conforms to Annex II, Personal Protective Equipment (EU) Regulation 2016/425 Category III, and as brought into UK law and amended.



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Milton Keynes, MK5 8PP UK

Intended Use

Zero-Gravity® Radiation Protection System

See 84000 Users Guide for Intended Use

Foreseeable Misuse

Zero-Gravity® Radiation Protection System has risk and other foreseeable misuse conditions that are identified in the **Safety Symbols** section of this document. Please read this document in its entirety before using this equipment.

Uncrating Instructions

- This document is intended to provide guidance for the proper uncrating of Zero-Gravity floor unit and is used to train personnel.
- It is essential that all personnel removing equipment from the crate read this document, in its entirety, with special consideration to keywords and symbols.
- *Particularly helpful information is italicized.*
- *Personnel removing equipment from the crate should refer to TIDI Products document 82000 (Uncrating Instructions).*
- *Installers should refer to TIDI Products document 83000 (Installation Guide).*
- *Users should refer to TIDI Products document 84000 (User's Guide).*
- *For additional information contact TIDI Products service at +1.920.751.4300.*

System Description

Zero-Gravity Floor Unit (ZGM-6-5H)

Features: Mobile unit with heavy base with casters and locks, variable-height mast, 48" pivoting boom.



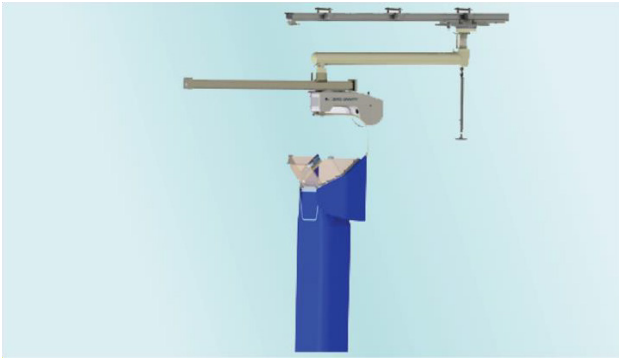
Zero-Gravity Hinged Swing Arm Unit (ZGHSA)

Features: Ceiling mounted central pivot-plate, swinging rigid arm, 48" lower track.



Zero-Gravity Monorail Hinged Swing Arm (ZGCM-HSA)

Features: Ceiling mounted upper track, central pivot on upper trolley with 48" lower track.



Zero-Gravity Monorail Unit (ZGCM-48 or ZGCM-66)

Features: Ceiling mounted upper track, (ZGCM-48) 48" lower track or (ZGCM-66) 66" lower track.












Safety Symbols

Important information in this document is marked with symbols and keywords. Keywords such as **WARNING**, **CAUTION**, or **ATTENTION** indicate the level of risk involved. The symbols emphasize the message visually.

	<p>WARNING!</p> <p>Indicates a potentially hazardous situation, which could result in a serious risk of injury or death to patient or operator and or damage to equipment or property.</p>
	<p>CAUTION!</p> <p>Indicates a potentially hazardous situation, which could result in a minor or moderate risk of injury to patient or operator and or damage to equipment or property.</p>
<p>ATTENTION!</p>	<p>(Without safety alert symbol)</p> <p>Indicates a situation that may result in damage to equipment or property.</p>
	<p>NOTE</p> <p><i>Useful additional information and tips.</i></p>

Document Safety Symbols

Read and follow all safety instructions in the document and on the device.

	<p>CAUTION! HEAVY EQUIPMENT</p> <ul style="list-style-type: none">• A second person is required for lifting and handling.• Use caution when unpacking and handling the Zero-Gravity System.
	<p>CAUTION! HEAVY EQUIPMENT</p> <p>Crate includes heavy interior ramp, which must be lowered to the ground by two people. The body shield assembly weighs ~ 54 pounds (24.5 kilograms) and must also be removed and handled by two people. Use care when handling the base. The base weighs ~ 660 pounds (300 kilograms) and is not intended to be lifted.</p>
	<p>CAUTION: HEAVY EQUIPMENT</p> <p>Use care when handling the crate lid. The crate lid weighs ~ 50 pounds (23 kilograms).</p>
	<p>CAUTION: HEAVY EQUIPMENT</p> <p>Use care when handling the Crate Lid. The Crate Lid weighs ~ 90 pounds (41 kilograms). Two people are required for handling.</p>
	<p>CAUTION: HEAVY EQUIPMENT</p> <p>Use care when handling the crate side panel. The side panel weighs ~ 65 pounds (30 kilograms). Two people are required for handling.</p>
	<p>CAUTION: HEAVY EQUIPMENT</p> <p>Use care when handling the Boom Arm assembly. The Boom Arm assembly weighs ~ 40 pounds (18 kilograms) for the ZGM-6-5H, ZGHSA, ZGCM-HSA and ZGCM-48, and the ZGCM-66 weighs ~ 50 pounds (23 kilograms). Two people are required for handling.</p>
	<p>CAUTION: HEAVY EQUIPMENT</p> <p>Use care when handling the drop tube. The drop tube weighs ~ 140 pounds (63.5 kilograms). Two people are required for handling.</p>
	<p>CAUTION: HEAVY EQUIPMENT</p> <p>Use care when handling the Rail Assembly. The Rail Assembly weighs ~ 150 pounds (68.0 kilograms) and must be handled by two people.</p>
	<p>CAUTION: HEAVY EQUIPMENT</p> <p>Use care when handling the Support Plate. The Support Plate weighs ~ 200 pounds (91 kilograms). (Forklift Required)</p>



CAUTION: HEAVY EQUIPMENT

Use care when handling leaded body shield assembly. The assembly weighs ~ 54 pounds (24.5 kilograms) and must be handled by two people.



CAUTION! HEAVY EQUIPMENT

Use care when handling the base. The base weighs ~660 pounds (300 kilograms) and is not intended to be lifted.



WARNING! RADIATION HAZARD

The body shield must be handled with care so that it is not damaged due to contact with other objects. If the body shield is damaged, it must be rechecked according to the Maintenance section of the User's Guide (TIDI Products document 84000)



CAUTION! PINCH POINT HAZARD

Never push or pull a Zero-Gravity floor unit by placing hands on the large D-shape base. The casters may swivel and pinch hands or fingers.

ATTENTION!

DAMAGE CAN OCCUR IF THE BODY SHIELD IS ALLOWED TO DRAG ACROSS THE SIDE OF THE CRATE.

Verify Components



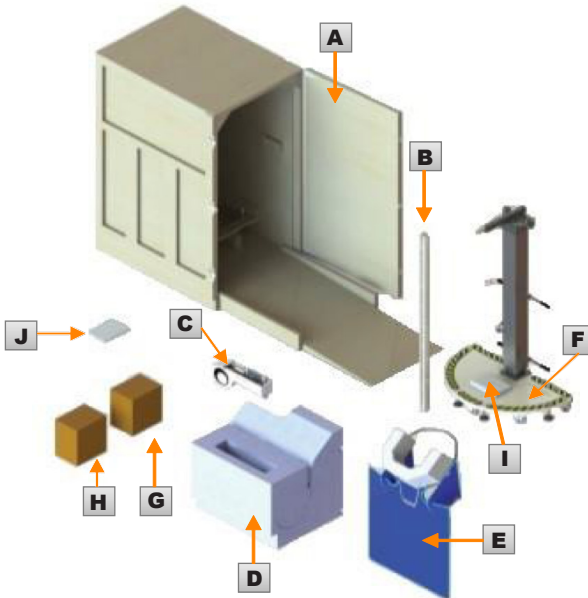
Follow the steps below to verify the system is not damaged and is ready for installation.

1. Inspect each component of the system following the uncrating instructions.
2. Make sure all items on the packing list are included.
3. Inspect all components to make sure no damage occurred during shipping.
4. If system arrives with damaged or missing components, do not operate the system until the components are replaced. Failure to do so could result in injury to personnel, patient, or damage to property and or equipment.

Packing List – Floor Unit (ZGM-6-5H)

Item	QTY	Part
A	1	Shipping Crate with Labels
B	1	Boom Arm Assembly
C	1	Balancer
D		End Stop Cap and (2) screws, Spring Pin, Docking Station, (4) Black Plastic Hole Plugs
E	1	Body and Face Shield with Right and Left Shoulder Shields
F	1	Base Assembly (including Identification Tag)
G	1	Box Containing Sterile Covers
H	1	Box Containing Vests
I	1	Tool Box (located in the Base Assembly) – Includes the Documentation Packet
J	1	Documentation Packet – includes User and Installation Guides (Keep near unit)

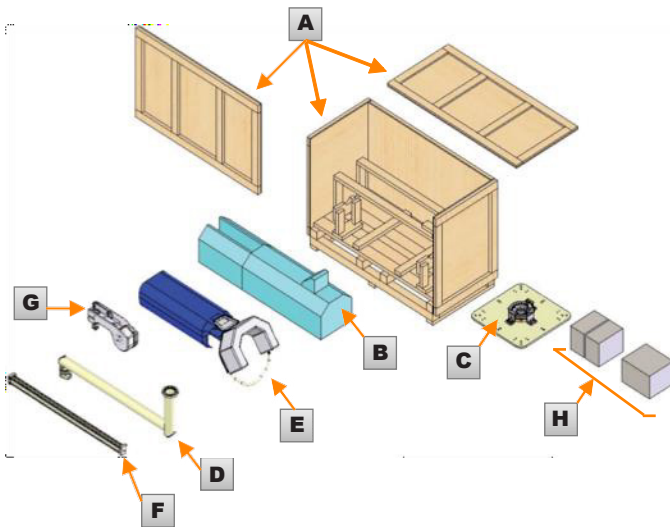
Figure 1



Packing List – Ceiling Mounted Unit (ZGHS-A)

Item	QTY	Part
A	1	Shipping Crate
B	1	Foam Packaging Block
C	1	Support Plate Assembly
D	1	Drop Tube (including Identification Tag)
E	1	Body and Face Shield and (1 Each) Right and Left Shoulder Shields
F	1	Boom Arm Assembly
G	1	Balancer
H	1	Box Containing System Components: (1) Box Containing Vests and (1) Box Containing Sterile Covers

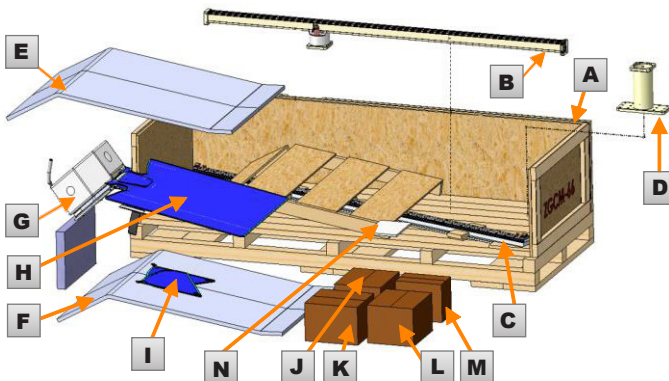
Figure 2



Packing List – Ceiling Mounted Unit (ZGCM-48 | ZGCM-66)

Item	QTY	Part
A	1	Shipping Crate
B	1	Boom Arm Assembly
C	1	Rail Assembly
D	1	Drop Tube
E	1	Packing Foam Piece A
F	2	Packing Foam Piece B
G	1	Protective Foam Cover
H	1	Body and Face Shield
I	1	(1 Each) Right and Left Shoulder Shields
J	1	Box Containing (1 each) Balancer, Carriage Cover, and Tool Pouch
K	1	Box Containing Sterile Covers
L	1	Box Containing Vests
M	1	Box Containing System Hardware (including Identification Tag)
N	1	Documentation Packet includes User and Installation Guide (Keep near unit)

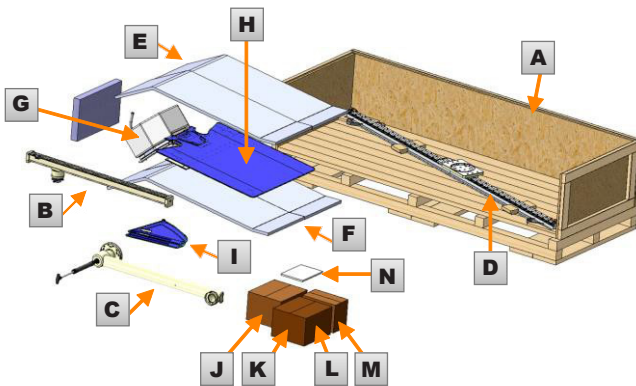
Figure 3



Packing List – Ceiling Mounted Unit (ZGCM-HSA)

Item	QTY	Part
A	1	Shipping Crate
B	1	Boom Arm Assembly
C	1	Swivel Boom Assembly
D	1	Rail Assembly (including Identification Tag)
E	1	Packing Foam Piece A
F	2	Packing Foam Piece B
G	1	Protective Foam Cover
H	1	Body and Face Shield
I	1	(1 Each) Right and Left Shoulder Shields
J	1	Box Containing (1 each) Balancer, Carriage Cover, and Tool Pouch
K	1	Box Containing Sterile Covers
L	1	Box Containing Vests
M	1	Box Containing System Hardware
N	1	Documentation Packet includes User and Installation Guide (Keep near unit)

Figure 4



Uncrating the System – Floor Unit (ZGM-6-5H)



CAUTION! HEAVY EQUIPMENT

Crate includes heavy interior ramp which must be lowered to the ground by two people. The body shield assembly weighs ~ 54 pounds (24.5 kilograms) and must also be removed and handled by two people. Use care when handling the base. The base weighs ~ 660 pounds (300 kilograms) and is not intended to be lifted.

1. Position crate with 12 feet (3.7 meters) of floor space in front to accommodate lowering the inner ramp (Figure 5).
2. Untwist three (3) steel clasps on left side of door.

Open the Crate

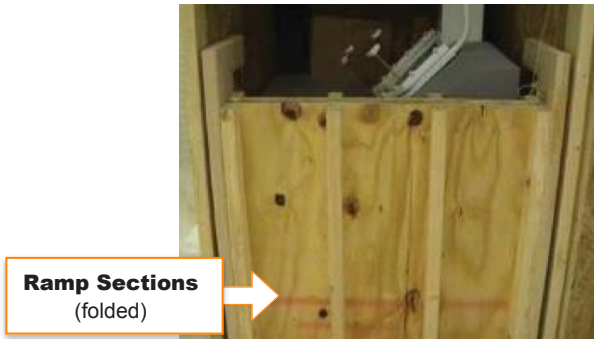
Figure 5



Zero-Gravity® Radiation Protection System Uncrating Instructions

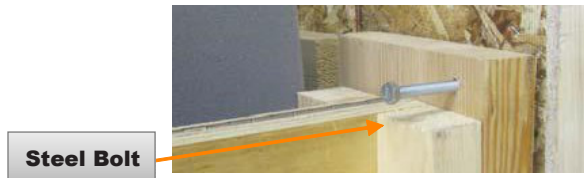
3. With your right hand pressed firmly against the door, release the clasps, releasing the door. The ramp is now visible (Figure 6).

Figure 6



4. With the door open, remove the steel bolt on the right side, releasing the ramp's two sections (Figure 7).

Figure 7



5. Lower both sections of the ramp to the floor; unfold the outer section (Figure 8).

Figure 8



Unpack the Contents

1. Remove and set aside the boxes from crate.
2. Remove Foam Block 1 and carefully set aside the system components (Figure 9).

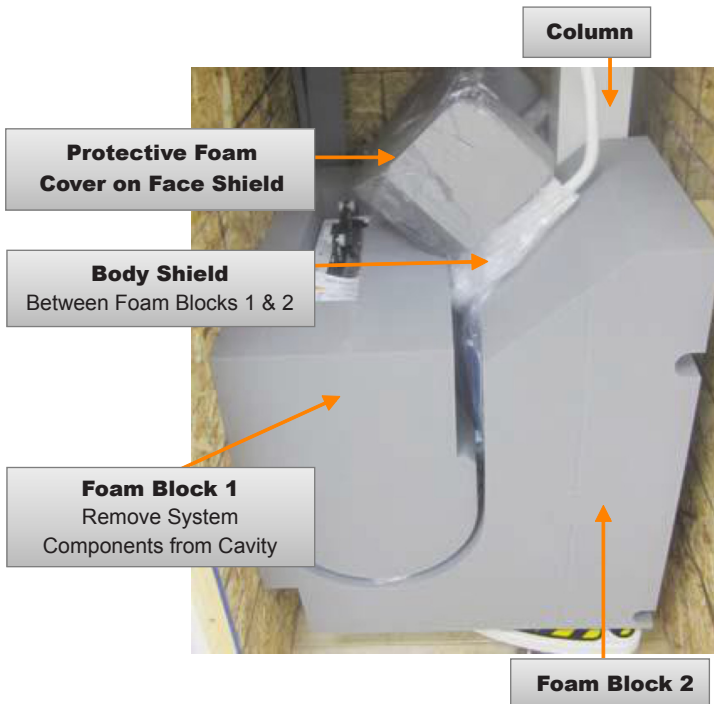


WARNING! RADIATION HAZARD

The body shield must be handled with care so that it is not damaged due to contact with other objects. If the body shield is damaged, it must be rechecked according to the Maintenance section of the User's Guide (TIDI Products document 84000).

3. Leaving the protective foam cover intact, carefully remove the body shield assembly and place them on a clean, flat surface. The protective foam cover must remain in place until final installation.
4. Remove the (2) shoulder shields.
5. Remove foam block 2.

Figure 9





CAUTION! HEAVY EQUIPMENT

Use care when handling the base. The base weighs~ 660 pounds (300 kilograms) and is not intended to be lifted.

6. Find the spring pin in Foam Block 1 from Figure 9. Place the spring pin into the hole on the far side of the column.
7. Slightly loosen the ratchet straps. Ensure the column spring pin is **not** locked in the retracted position so it will slide into place. Let the column move up slightly till the column locking spring pin moves into position. This should occur within 1" of upward movement. The snubber handle will need to be open to allow for the upward movement.
8. Once the column pin is in place and holding the column remove the 2 ratchet straps. Close the snubber handle so it clamps on the column.
9. To remove the base assembly from the wood frame, remove (2) hex head screws and (2) eye bolts, these should be finger tight and loosen easily. Also remove the front and back wood frame pieces (Figure 10).
10. Using a 5/16-inch hex key, Located in the Tool Box (I from Figure 1) in the Base Assembly, lower the leveling pads until the base assembly lifts from the wood blocks (Figure 11).

Figure 10

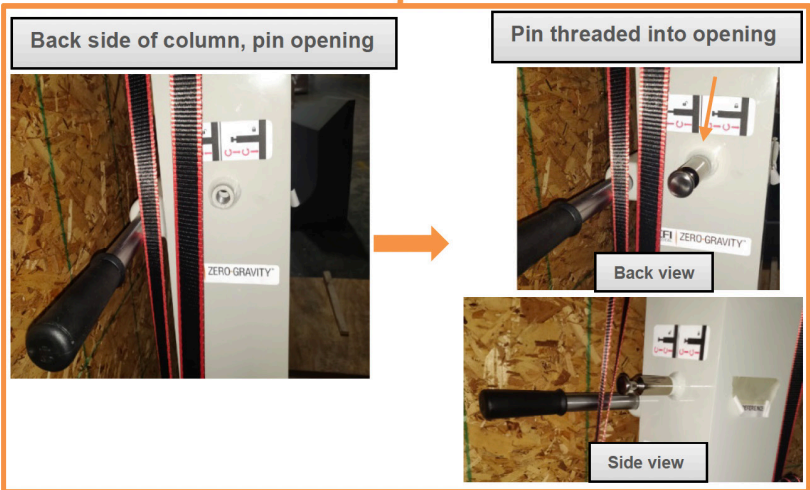
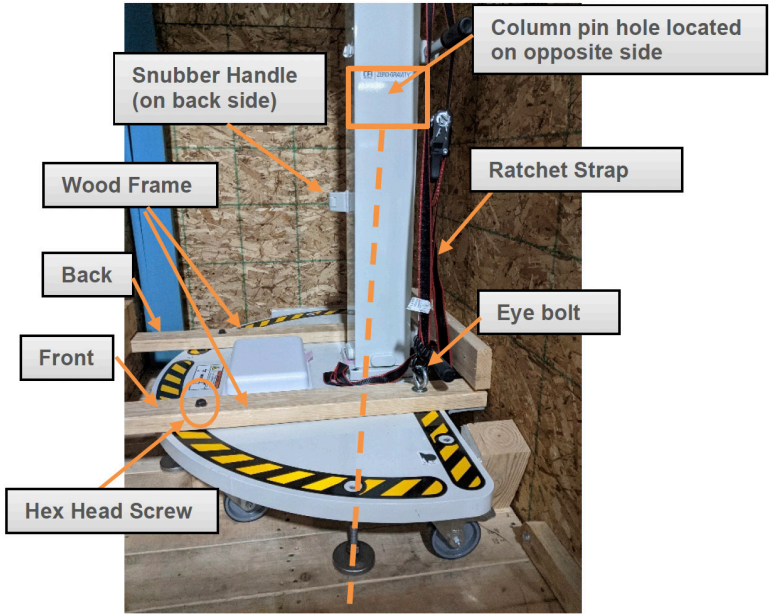
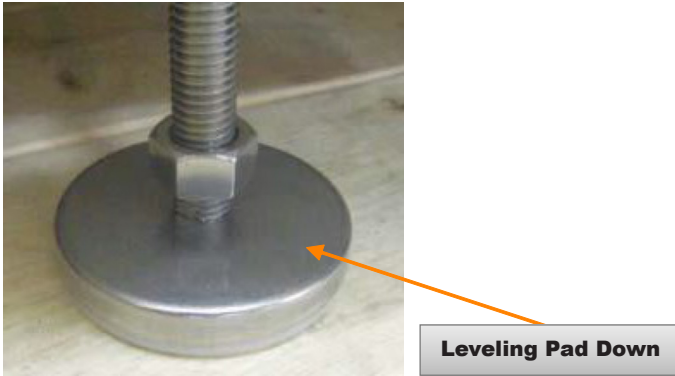
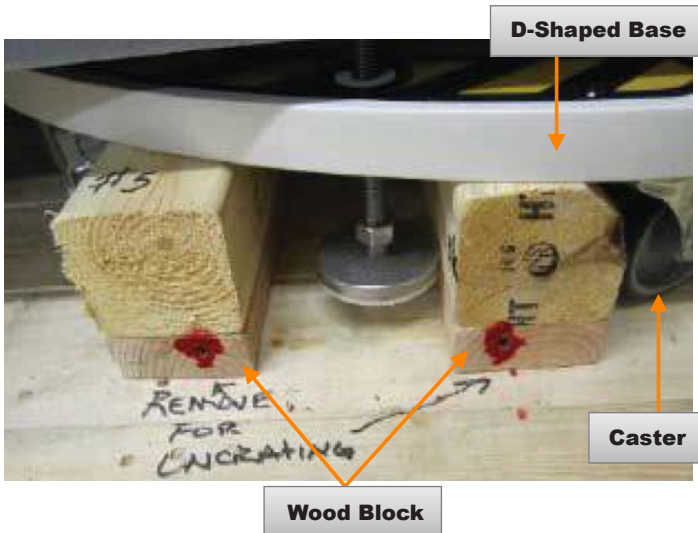


Figure 11



11. Remove the wood blocks (Figure 12).

Figure 12



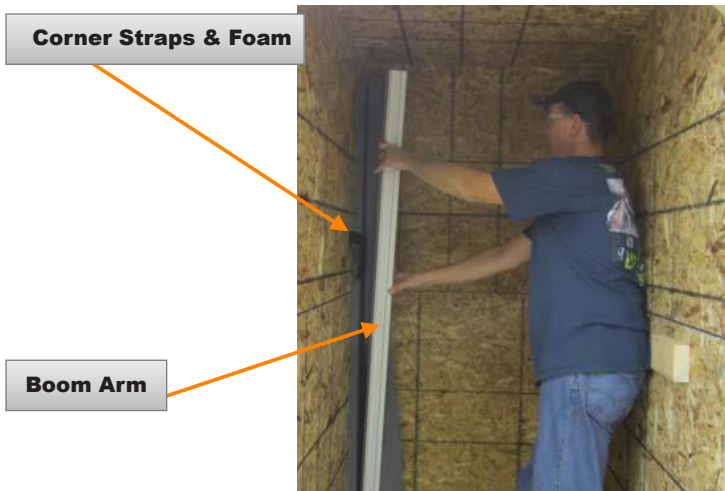


CAUTION! PINCH POINT HAZARD

Never push or pull a Zero Gravity floor unit by placing hands on the large D-shape base. The casters may swivel and pinch hands or fingers.

12. Using a 5/16-inch hex wrench, raise the leveling pads as high as possible.
13. Using a second person, slowly roll the base assembly down the ramp to the floor.
14. In the corner of crate, release the Velcro straps and remove the boom arm (Figure 13).

Figure 13



The system is now uncrated.



Confirm uncrated items with packing list. If all items are present, proceed to Installation Manual.



If any item is missing, or appears to be damaged, contact your local sales representative or TIDI service before proceeding further.

Uncrating the System – Ceiling Mounted Unit (ZGHSA)



CAUTION: HEAVY EQUIPMENT

Use care when handling the crate lid. The crate lid weighs ~ 50 pounds (23 kilograms).

Open the Crate

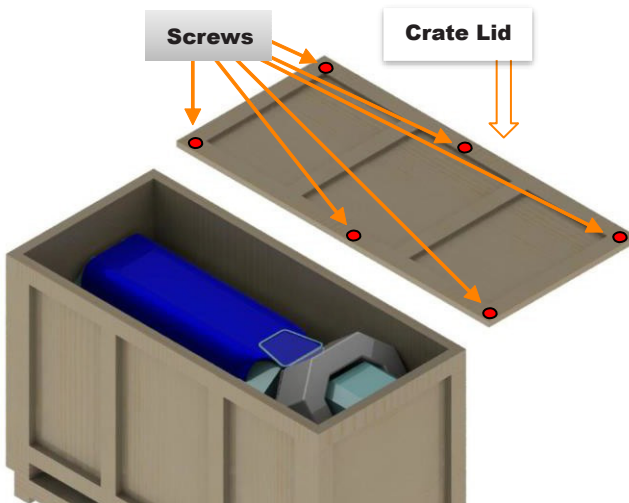
1. Remove the screws in the Crate Lid using a T25 torque bit as shown on the right.



Screw locations on Crate Lid are painted red, as shown below.

2. With the assistance of another person, remove Crate Lid and set aside.

Figure 14





CAUTION: HEAVY EQUIPMENT

Use care when handling the crate side panel. The side panel weighs ~ 65 pounds (30 kilograms). Two people are required for handling.

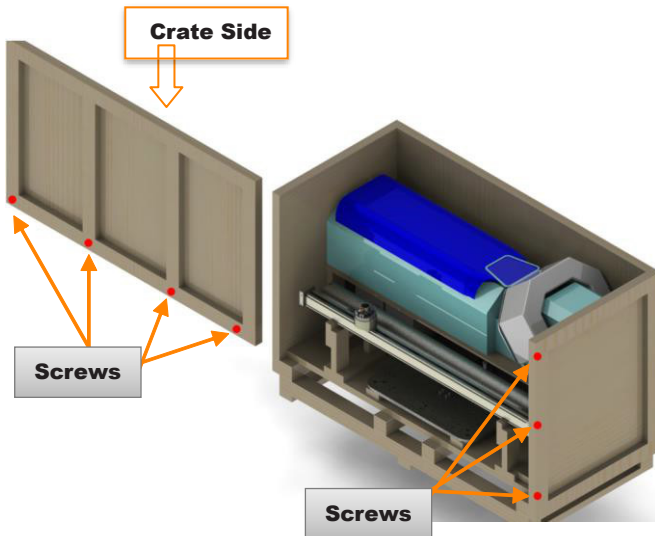
3. Remove the screws in the crate side using a T25 torque bit as shown on the right.



Screw locations on crate side are painted red, as shown in Figure 15.

4. With the assistance of another person, remove crate side and set aside.

Figure 15



Unpack the Boom Arm Assembly



CAUTION: HEAVY EQUIPMENT

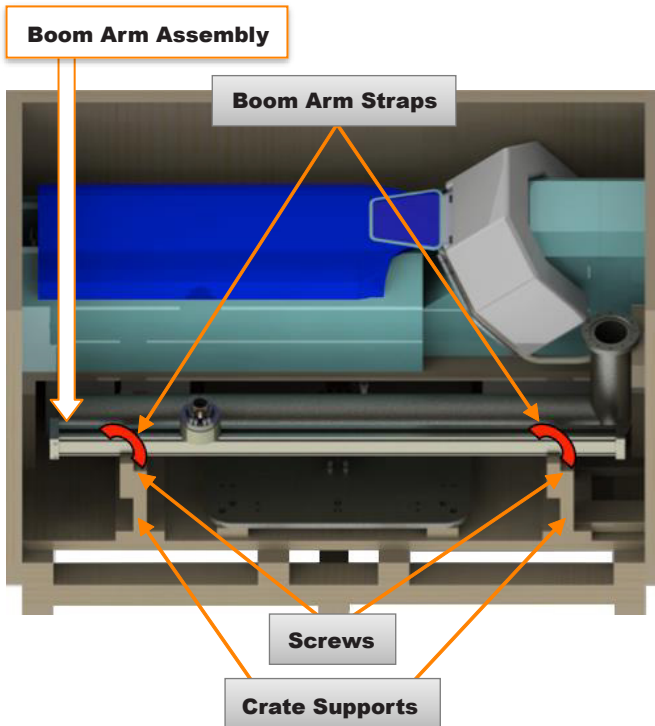
Use care when handling the Boom Arm. The Boom Arm weighs ~ 40 pounds (18 kilograms).

1. Remove the screws holding the Boom Arm Straps (shown in red, 1 on each end) to the Crate Supports.
2. Remove the Boom Arm Assembly (two people recommended). Lift Boom Arm Assembly uniformly.



Beware of collisions with other objects.

Figure 16



Unpack the Drop Tube



CAUTION: HEAVY EQUIPMENT

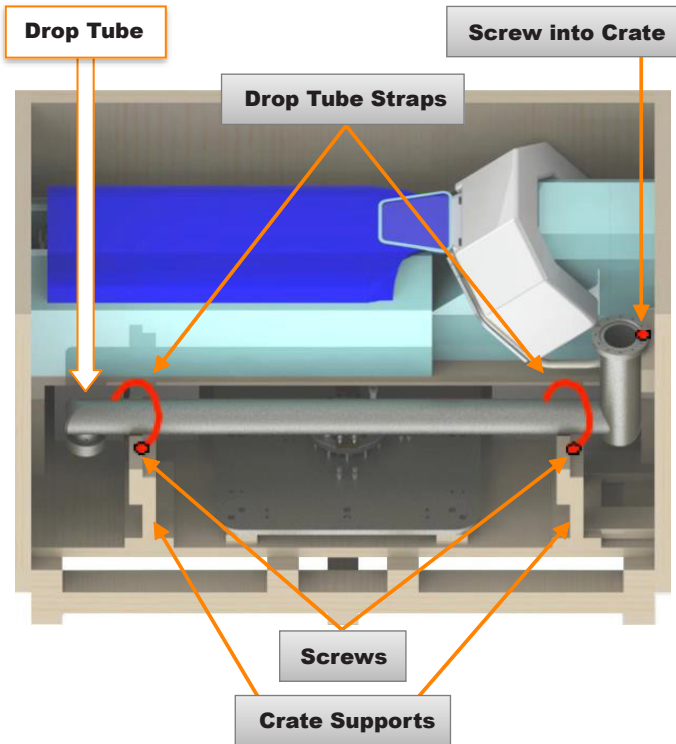
Use care when handling the drop tube. The drop tube weighs ~ 140 pounds (63.5 kilograms). Two people are required for handling.

1. Remove the screws holding the Drop Tube Straps (shown in red, 1 on each end) to the Boom Arm Crate Supports. Remove Screw from Drop Tube to side of Crate.
2. Remove the Drop Tube (two people required).



Beware of collisions with other objects.

Figure 17



Unpack the Support Plate

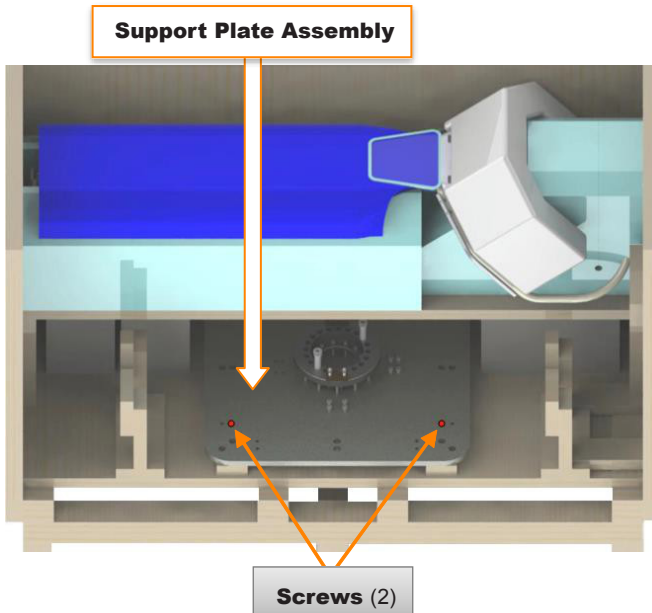


CAUTION: HEAVY EQUIPMENT

Use care when handling the Support Plate. The Support Plate weighs ~ 200 pounds (91 kilograms). (Forklift Required.)

1. Remove the screws (locations marked below in red) that secure the Support Plate to the crate floor.
2. Using a forklift with padded forks, remove the Support Plate Assembly from the bottom of the crate.

Figure 18



Unpack the Body Shield Assembly



CAUTION: HEAVY EQUIPMENT

Use care when handling leaded body shield assembly. The assembly weighs ~ 54 pounds (24.5 kilograms) and must be handled by two people.

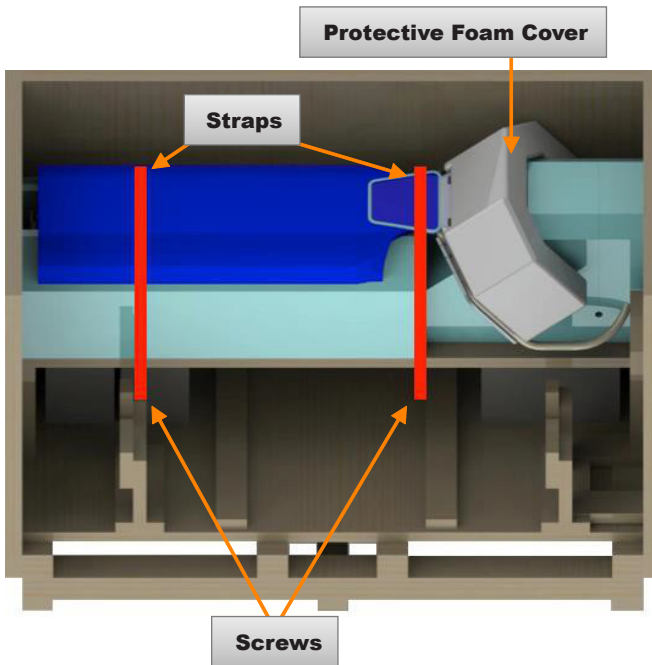


WARNING! RADIATION DAMAGE HAZARD

The Body Shield must be handled with care to avoid damage to the Body Shield protective lead material. If the Body Shield is damaged, it must be inspected according to the Body and Face Shield Fluoroscopy Inspection section of the User's Guide (TIDI Products document 84000).

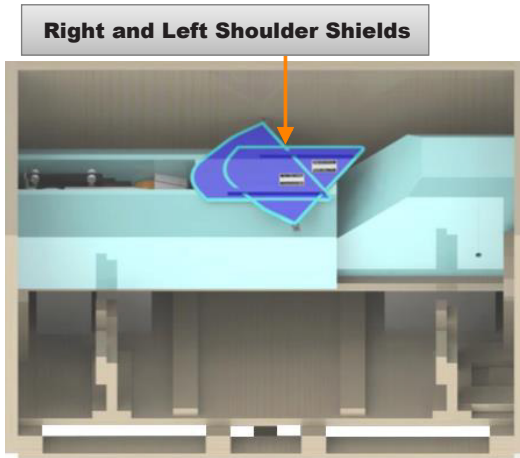
1. Remove the screws that secure the Straps (shown in red) to the Body Shield.
2. Leaving the protective foam cover intact (Figure 19), remove the body shield assembly from the crate and place on a clean, flat surface. Protective covers remain until installation is complete.

Figure 19



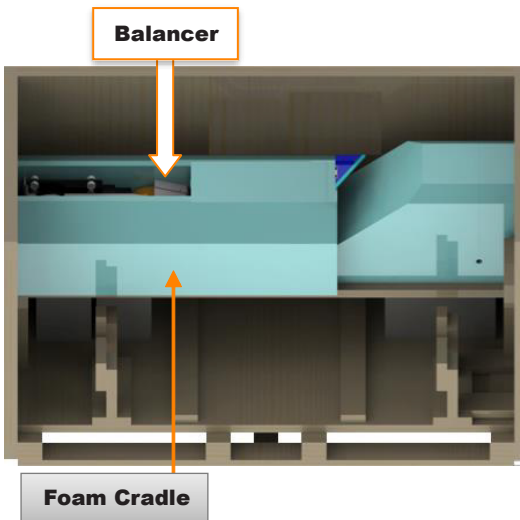
3. Remove the right and left shoulder shields (located under the body shield) (Figure 20).

Figure 20



Remove Balancer from Foam Cradle

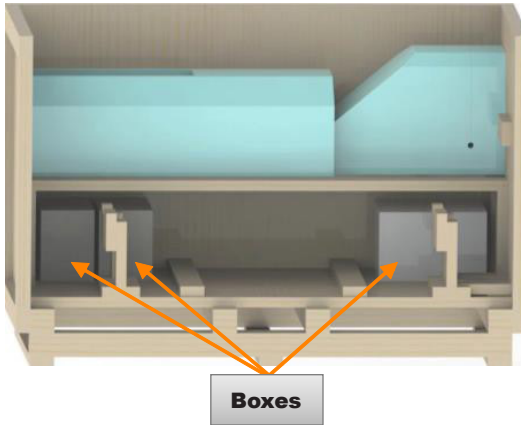
Figure 21



Remove Boxes from Crate

1. Remove the boxes from the crate.

Figure 22



The system is now uncrated.



Confirm uncrated items with packing list. If all items are present, proceed to Installation Manual.



If any item is missing, or appears to be damaged, contact your local sales representative or TIDI service before proceeding further.

Uncrating the System – Ceiling Mounted Unit (ZGCM-48 | ZGCM-66 | ZGCM-HSA)



CAUTION: HEAVY EQUIPMENT

Use care when handling the Crate Lid. The Crate Lid weighs ~ 90 pounds (41 kilograms). Two people are required for handling.

Open the Crate

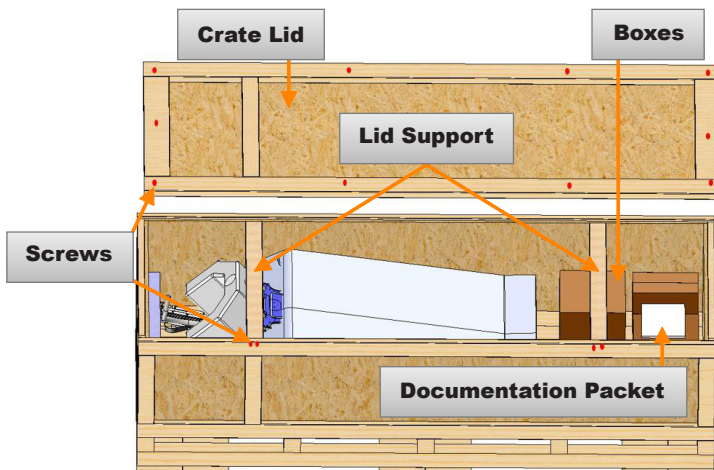
1. Remove the screws in the Crate Lid using a T25 torque bit as shown on the right.



Screw locations on Crate Lid are painted red, as shown below.

2. With the assistance of another person, remove Crate Lid and set aside.
3. Remove screws from Lid Supports. Remove Lid Supports.
4. Unpack the Accessories.
5. Remove Documentation Packet. Keep it with system for future use.
6. Remove the Boxes from the crate.

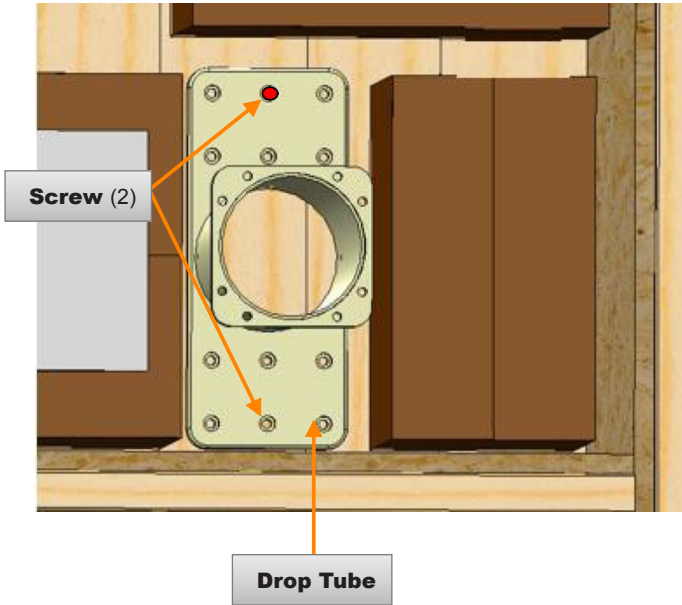
Figure 23



Unpack Drop Tube (ZGCM-48 | ZGCM-66)

1. Remove the screws (locations marked below in red) securing the Drop Tube to the crate floor, and then remove the Drop Tube.

Figure 24



Unpack Body Shield



CAUTION: HEAVY EQUIPMENT

Use care when handling leaded Body Shield. The Body Shield weighs ~ 54 pounds (24.5 kilograms) and must be handled by two people.

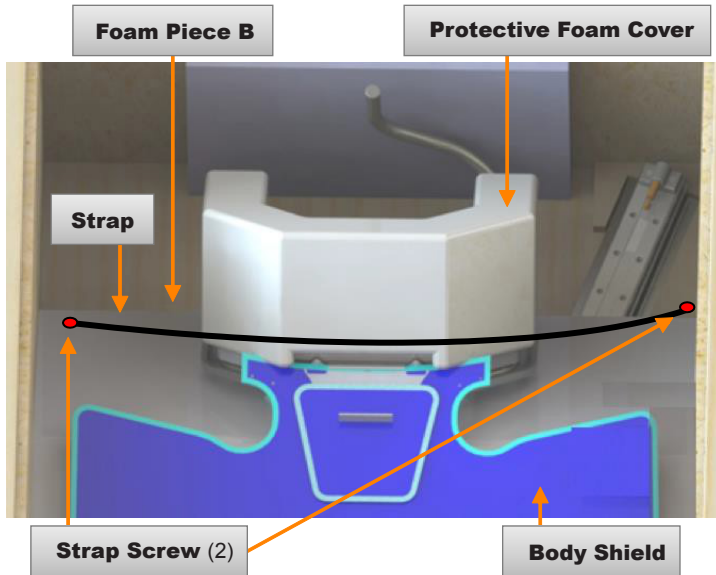


WARNING! RADIATION HAZARD

The body shield must be handled with care to avoid damage to the protective lead material. If the Body Shield is damaged, it must be inspected according to the Body Shield and Face Shield Fluoroscopy section of the User's Guide (TIDI Products Document 84000).

1. Remove Foam Piece A and place on a flat surface (Figure 3 & 4).
2. Remove screws (locations marked below in red) from strap securing Body Shield (Figure 25).

Figure 25



3. Leaving the Protective Foam Cover intact (Figure 25), remove the Body Shield from the crate.
 - One person must lift the Body Shield Tubular Frame at the top. The other person must lift by the Outside Edges of the Body Shield (Figure 26).

Figure 26



ATTENTION! DAMAGE CAN OCCUR IF THE BODY SHIELD IS ALLOWED TO DRAG ACROSS THE SIDE OF THE CRATE.

Figure 27



Side of Crate

- Two people lift the Body Shield (Figure 27).
- The two people lay the Body Shield flat on Foam Piece A from step 1 (Figure 28).

Figure 28



Protective Foam

Foam Piece A



Protective covers remain until installation is complete.

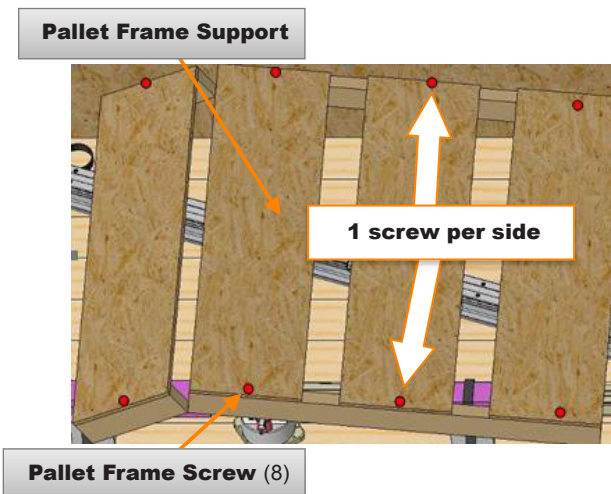
4. Remove the Right and Left Shoulder Shields (located under the Body Shield) (Figure 29).
5. Remove Foam Piece B from crate to expose the screws securing the Pallet Frame.

Figure 29



6. Remove the Pallet Frame Supports by removing screws (locations marked below in red) at the ends of each support (Figure 30).

Figure 30



Unpack Boom Arm Assembly

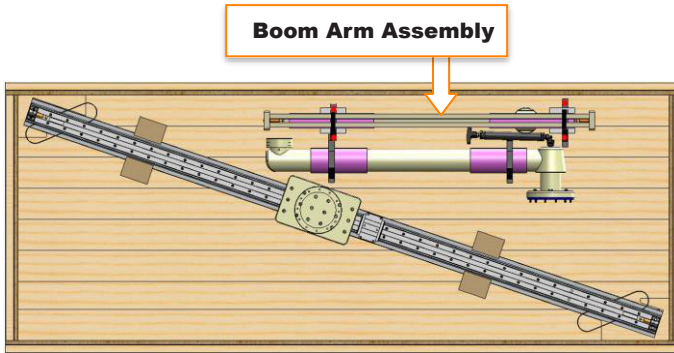


CAUTION: HEAVY EQUIPMENT

Use care when handling the Boom Arm assembly. The Boom Arm assembly weighs ~ 40 pounds (18 kilograms) for the ZGM-6-5H, ZGHSA, ZGCM-HSA and ZGCM-48, and the ZGCM-66 weighs ~ 50 pounds (23 kilograms). Two people are required for handling.

1. Remove screws (locations marked below in red) holding Boom Straps (1 on each end) to Boom Crate Floor.
2. Remove Boom Arm Assembly.

Figure 31



Beware of collisions with other objects.

Unpack Rail Assembly and Swivel Boom Assembly



CAUTION: HEAVY EQUIPMENT

Use care when handling the Rail Assembly. The Rail Assembly weighs ~ 150 pounds (68 kilograms), the Swivel Boom Assembly weighs ~ 95 pounds (43 kilograms) and must be handled by two people.

1. Remove the screws (locations marked below in red) in the Wood Blocks (located on the Crate Floor) that secure the Rail Assembly.
2. Remove the screws in the straps securing the Swivel Boom Assembly.

Figure 32 (ZGCM-48 | ZGCM-66)

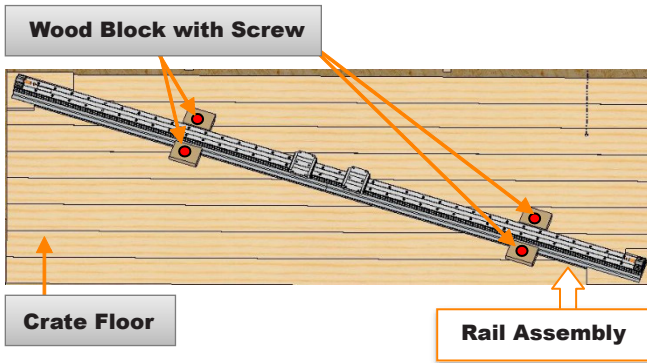
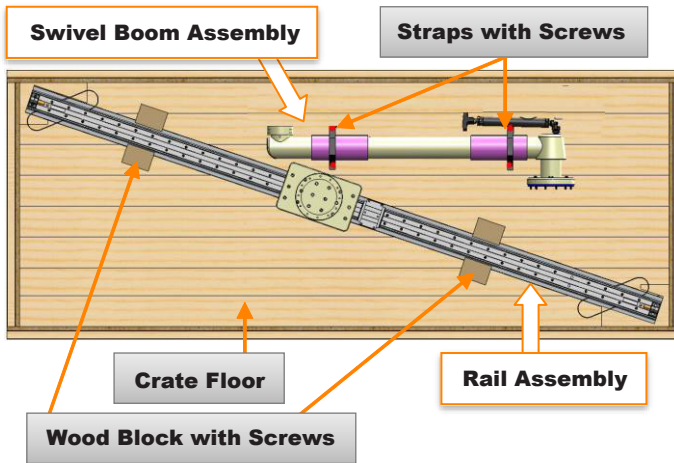


Figure 33 (ZGCM-HSA)



3. Remove the Rail Assembly with the aid of another person, using the Lifting Straps located on each end of the Rail Assembly (Figure 34).
4. Remove Swivel Boom Assembly with the aid of another person. Lift Boom Arm Assembly uniformly.

Figure 34



The system is now uncrated.



Confirm uncrated items with packing list. If all items are present, proceed to Installation Manual.



If any item is missing, or appears to be damaged, contact your local sales representative or TIDI service before proceeding further.

Limited Warranty

TIDI Products warrants to Customer that this product, manufactured for TIDI Products and sold to customer, will be free from defects in materials and workmanship for a period of one (1) year after delivery to Customer. This warranty shall not apply to any products, which have been subjected to misuse, improper installation or repair, alteration, neglect, accident, abnormal conditions of operation, or use under conditions other than those for which the products were designed.

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