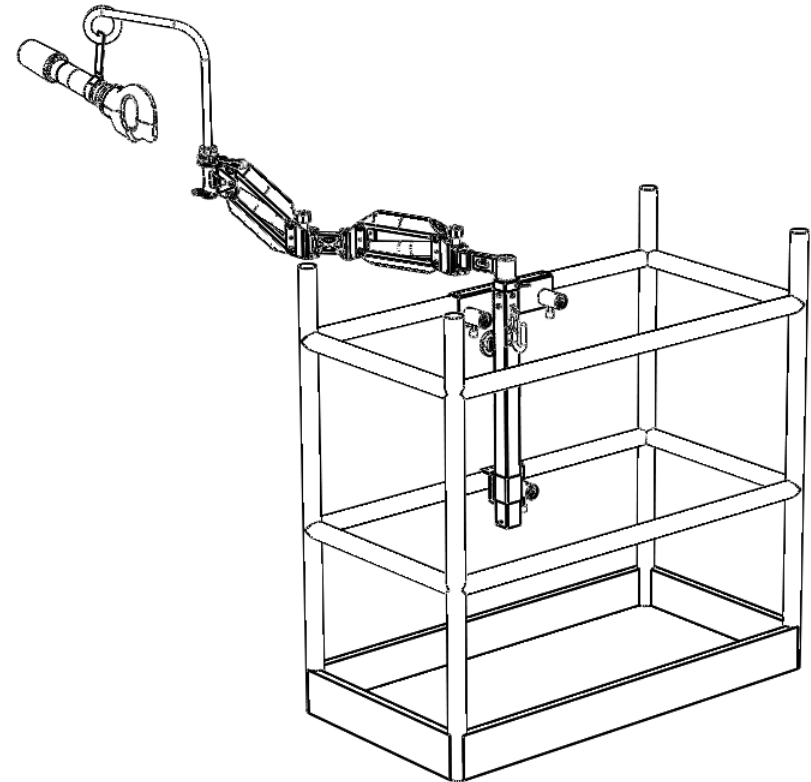
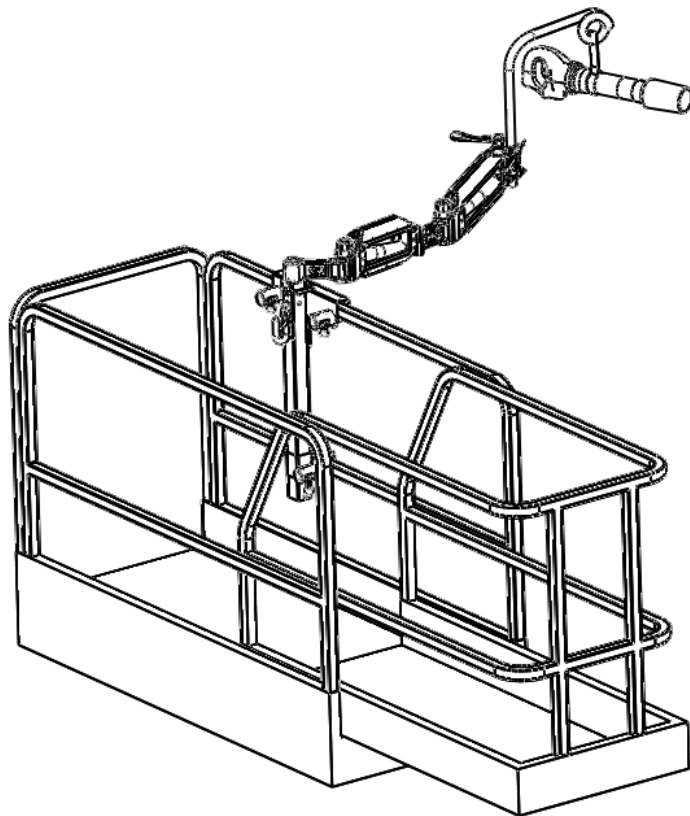


EksoZeroG Operator Manual



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Part Number

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Patents/Patents Pending

The EksoZeroG is U.S. patent pending.

Disclaimer

Potentially serious injury may occur in connection with the use of the EksoZeroG. Ekso Bionics, Inc., its affiliates and vendors (collectively "Supplier") shall not be liable for any injury or damage suffered by any person, either directly or indirectly, as a result of the use or repair of the EksoZeroG in violation of the intended use. Supplier does not accept any responsibility for any damage caused to its products, either directly or indirectly, as a result of use and/or repair by unauthorized personnel.

Contact Information

Ekso Bionics, Inc.

1414 Harbour Way, South

Suite 1201

Richmond, CA 94804

Office: 510-984-1761

Fax: 510-927-2647

Customer Service: 888-869-7683

www.eksobionics.com

industrial@eksobionics.com

This manual is intended for use with the EksoZeroG for both scaffold and aerial work platform (AWP) use. For clarity, only one work platform is depicted in the drawings; the functionality and operation depicted are the same for both work platforms.

Please read all documentation before installing and using the EksoZeroG.

Warnings



WARNING: The EksoZeroG must be attached directly to the intended work platform rails without contact with other materials. Never attach the EksoZeroG over materials such as mesh, netting, foam, cords, ropes, etc.

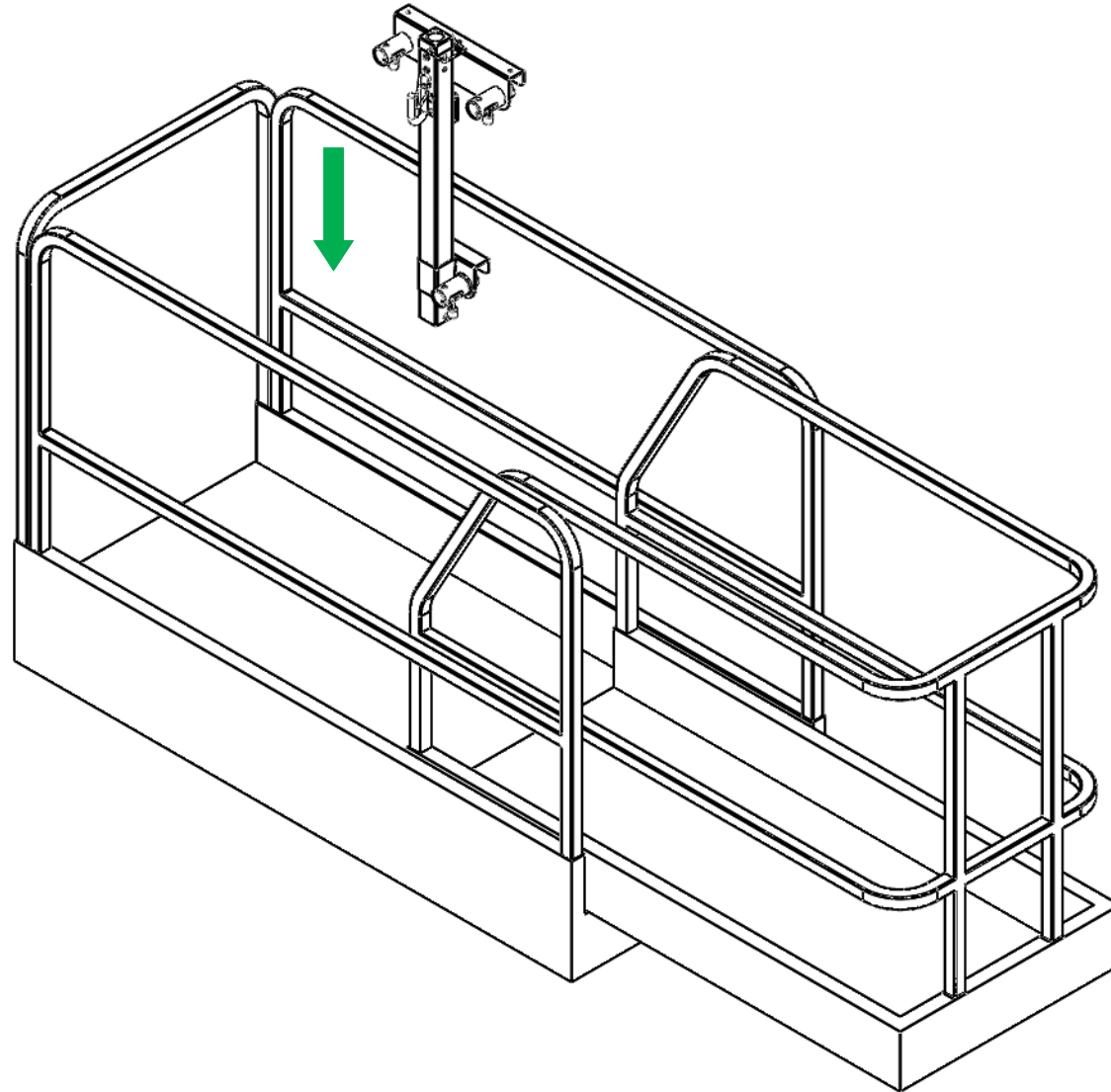


WARNING: The platform rated capacity is diminished by downward reaction force (such as drilling in an upward direction). When such reaction force is present, the force—along with the weight of the EksoZeroG and the tool being used—should be subtracted from the aerial work platform (AWP) rated capacity.

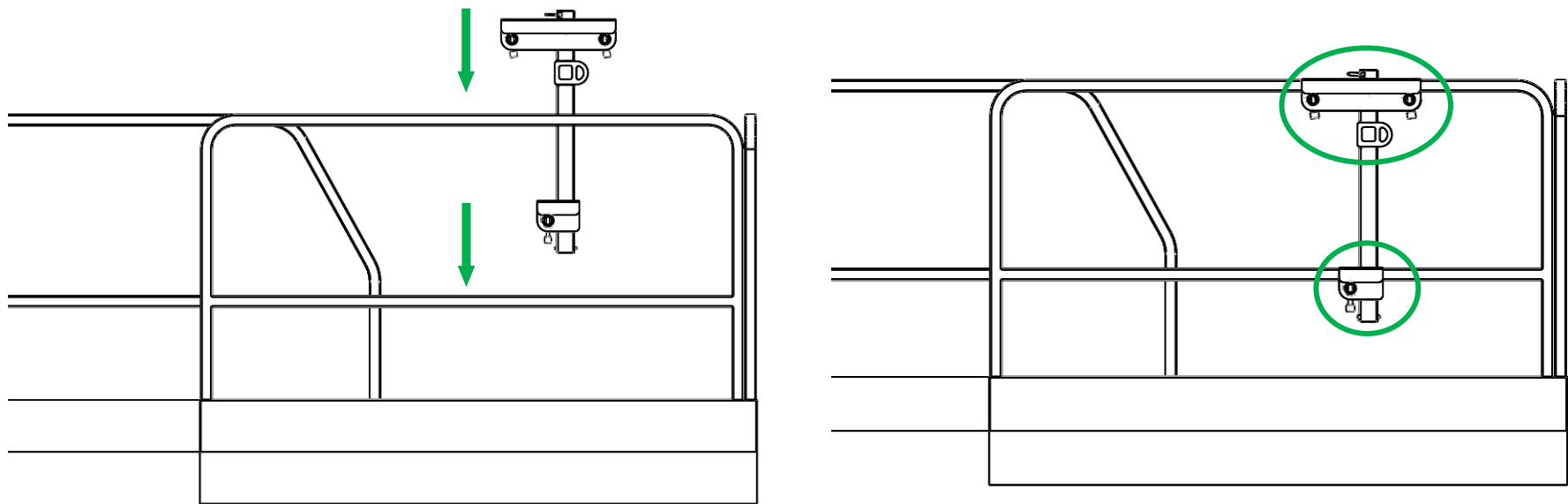
Component Weights

Component Weights		
Component	Weight (lbs.)	Weight (kg)
EksoZeroG mount (aerial)	18.0	8.2
EksoZeroG mount (scaffold)	18.6	8.4
ZeroG Arm	16.8	7.6
pigtail tool holder	3.0	1.4
ring gimbal tool holder	4.8	2.2

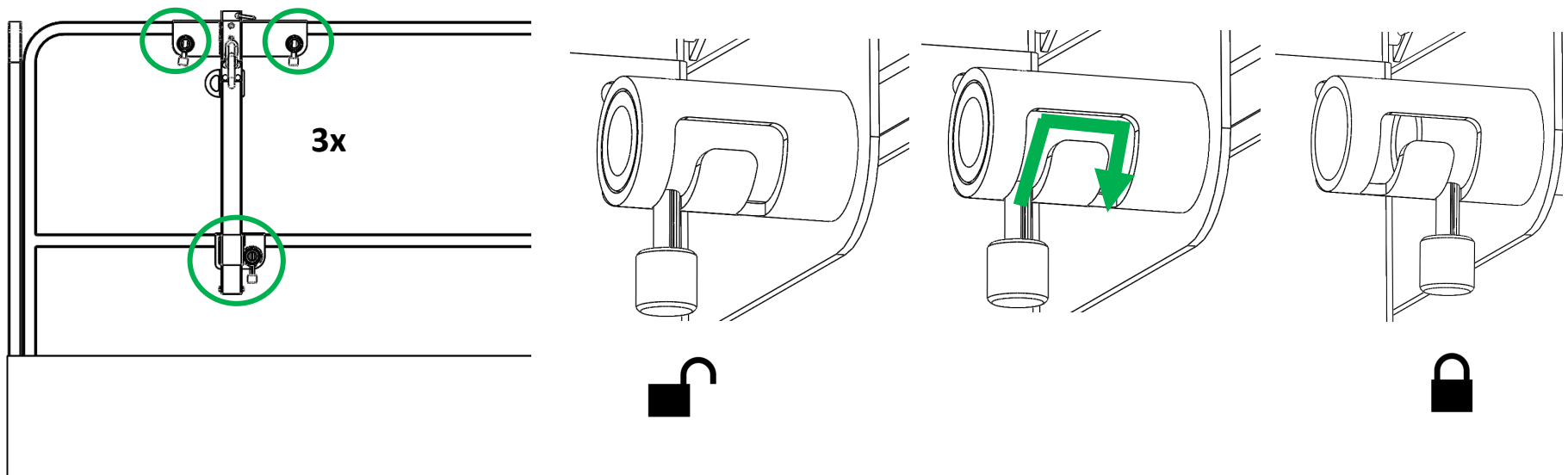
1 Always mount the EksoZeroG inside the work platform.



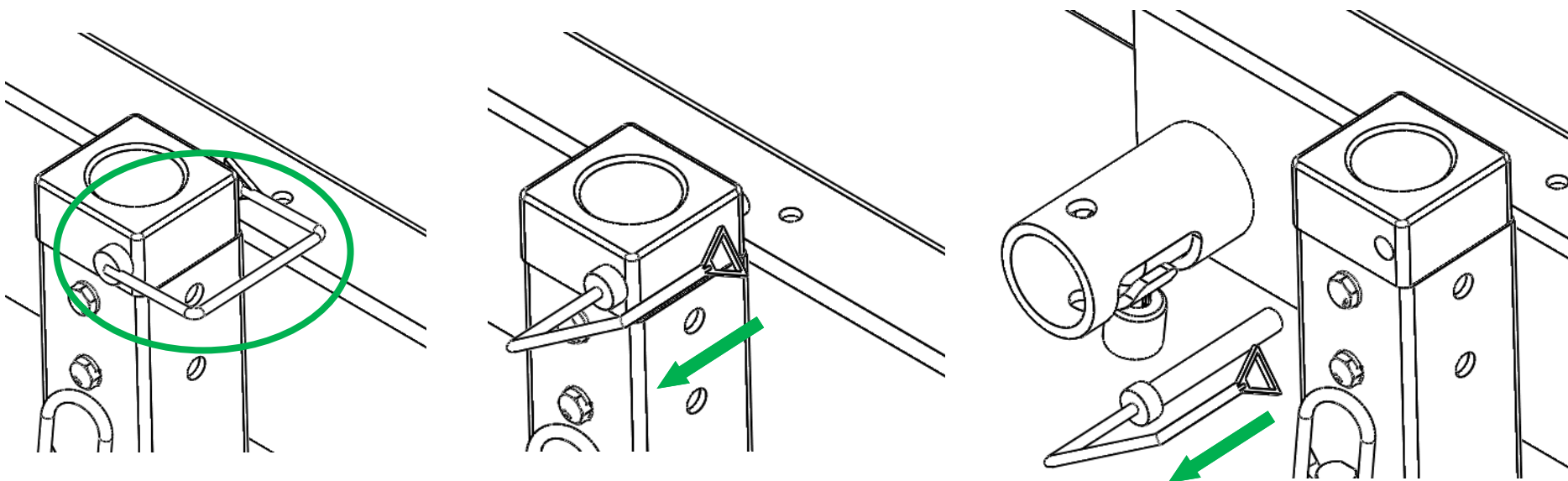
2 Position the mounting hooks on the upper and middle rails of the aerial or scaffold platform.



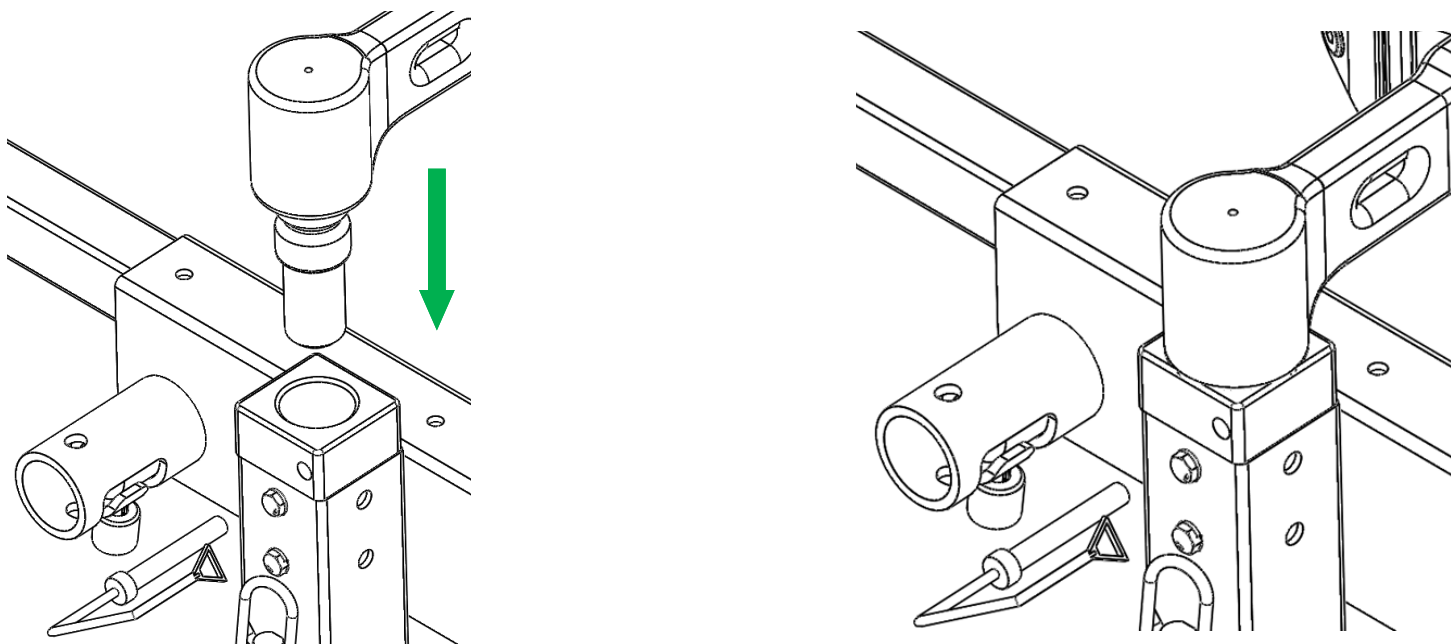
3 Secure the mount to the rails by locking the three (3) sliding gate latches.



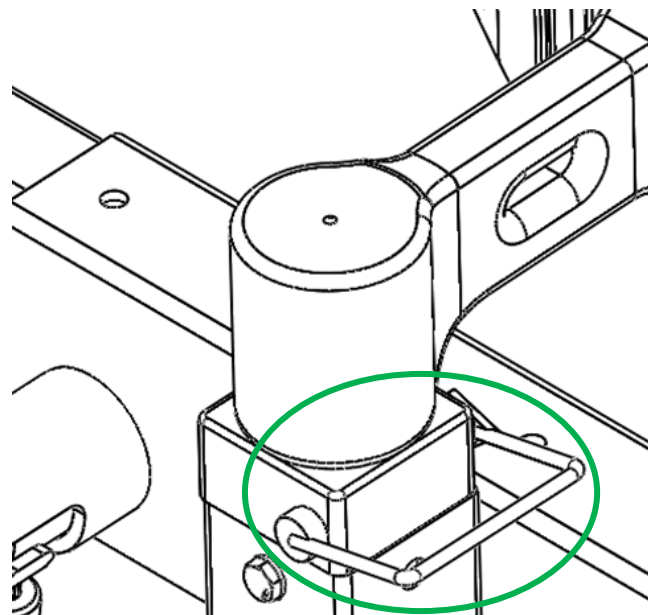
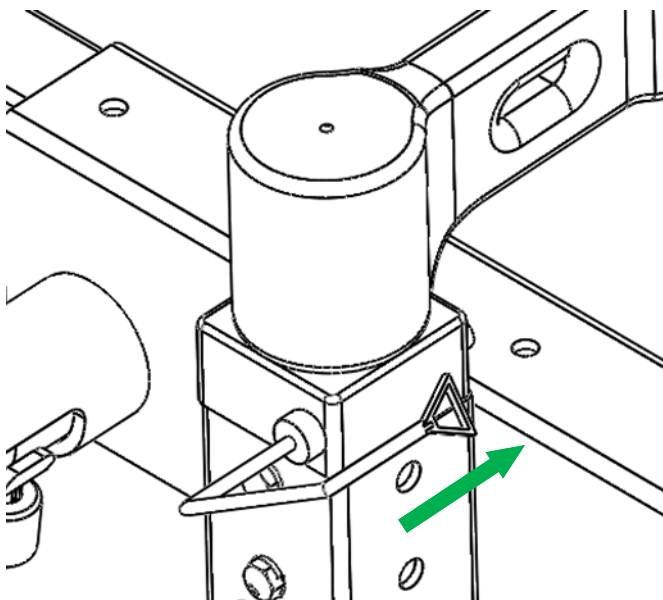
4 Remove the lock pin from the mount.



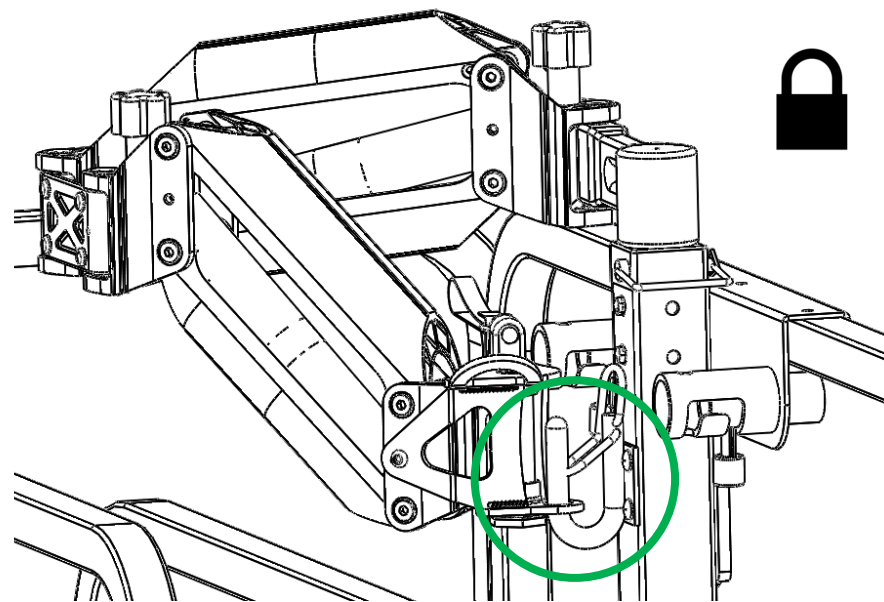
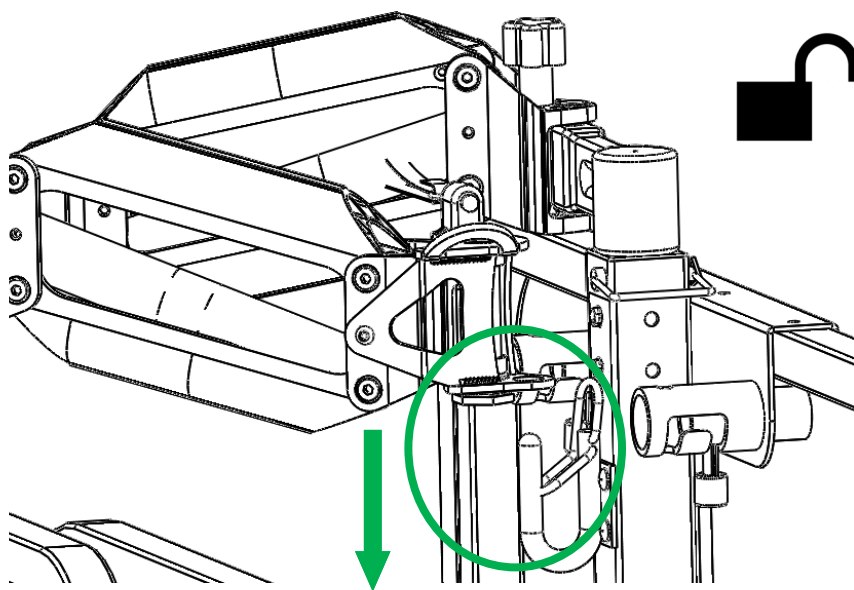
5 Insert the arm base link shaft into the arm receiver to connect arm to mount.



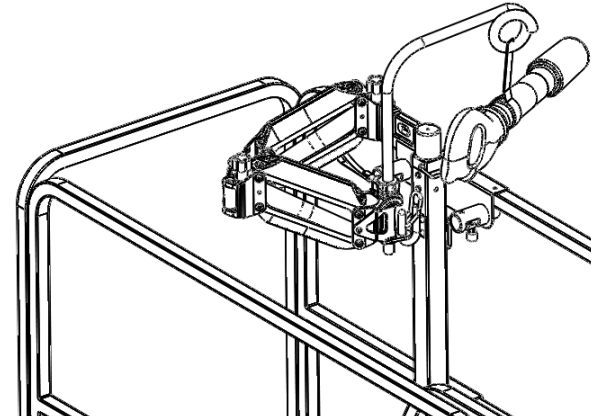
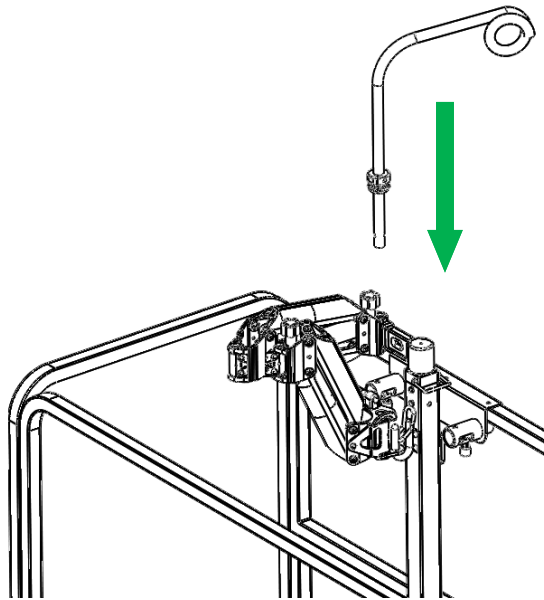
6 Replace the lock pin.



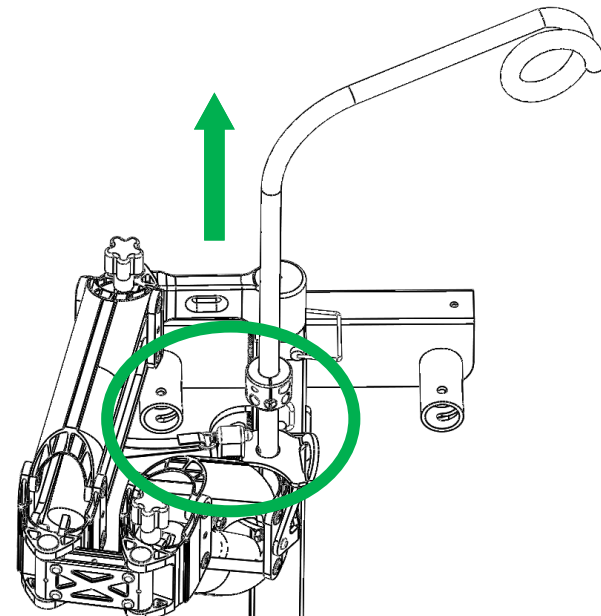
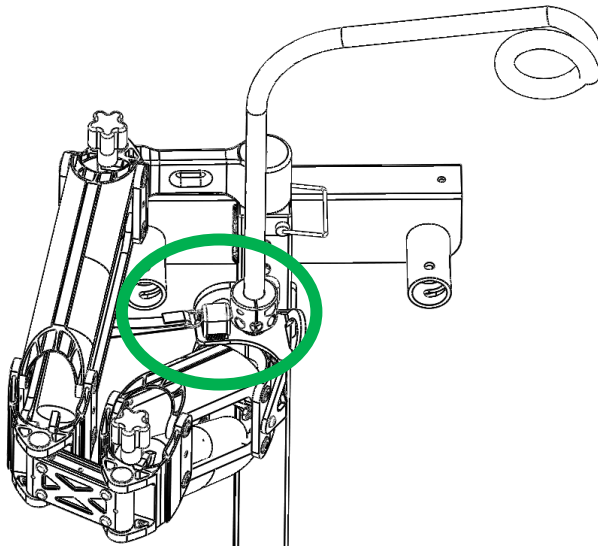
7 Dock the arm by securing the docking ring to the safety latch.



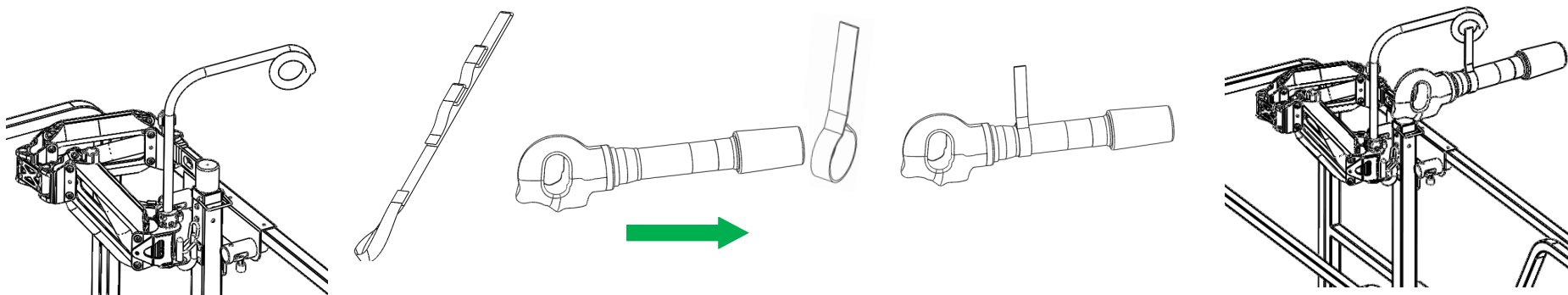
8 Insert tool holder and tool into docked arm's tool holder receiver.



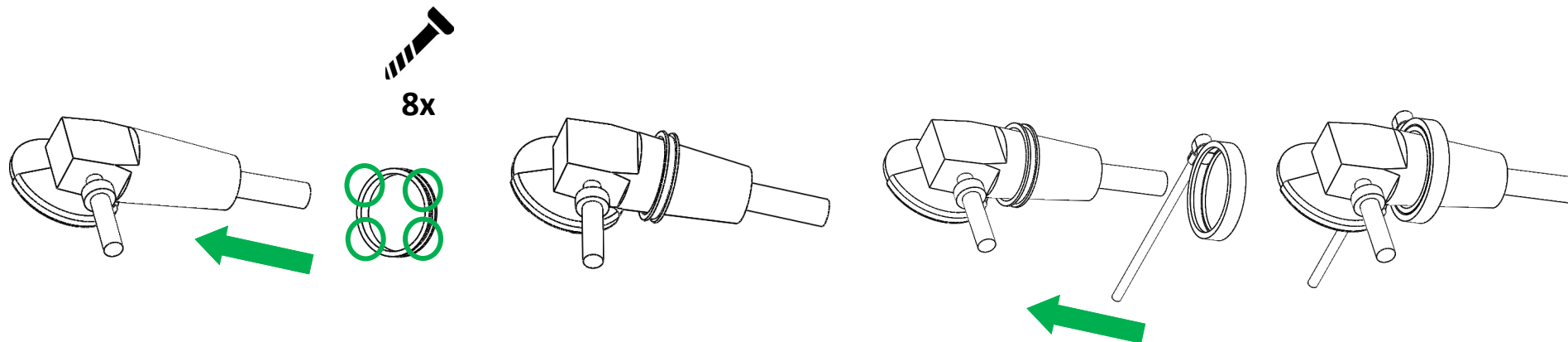
Rotation Lock Pull out rotation lock pin and remove tool holder.



Slings and Pigtail Tool Holder*



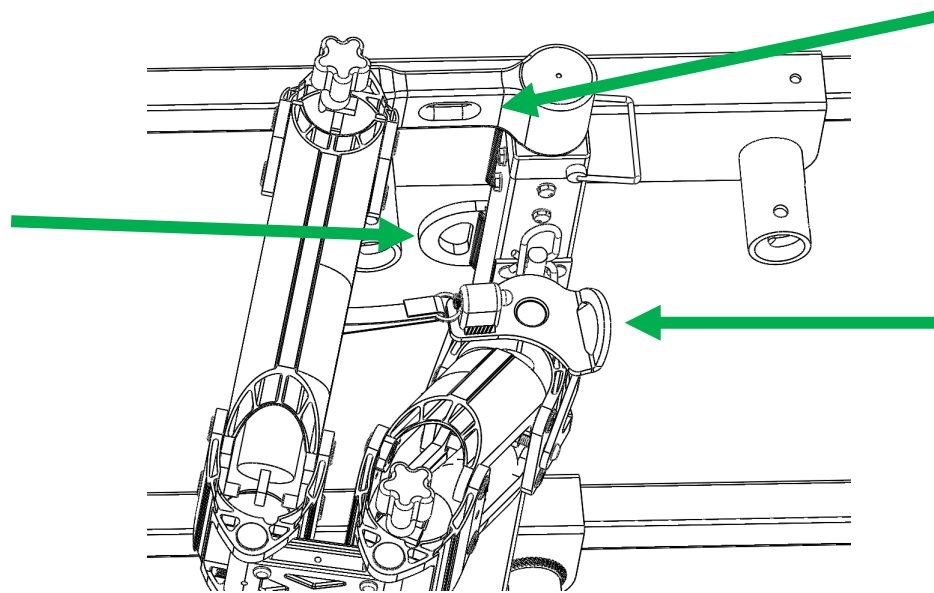
Ring Gimbal Optional Tool Holder Accessory*



*Vertical/overhead work uses both a sling and a cinch strap (P/N 106893). For step-by-step instructions for slinging and tool holder attachment, see our EksoWorks YouTube channel or visit our website: www.eksobionics.com.

Attachment Points

Attachment point
(mount tether)



Attachment point
(arm tether)

Attachment point
(tool tether)

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Maintenance



EksoZeroG Maintenance

EksoZeroG Maintenance				
Contact Ekso Bionics or Distributor if any component is rusted, damaged, or malfunctioning.				
Product Component	Maintenance Tasks	Ready to Rent	Customer	Preventive Maintenance Frequency
Aerial/Scaffold Mount				
Lock Latches	Ensure latch movement is smooth and unrestricted by opening and closing the three (3) lock latches. Clear out any debris and clean with cloth and/or compressed air.	X		Monthly
Mid-Rail Mounting Hook	Ensure that the up-and-down movement of the mid-rail mounting hook is smooth and unrestricted. Clear any debris and clean with cloth and/or compressed air.	X		Monthly
Arm Receiver	Inspect mating features. If dirty or dusty, clear any debris and clean with cloth and/or compressed air.	X		Weekly
Arm Safety Docking Latch	Test latch open-and-close action to ensure the latch works smoothly. Visually inspect that latch is not damaged.	X	X	Weekly
ZeroG Arm				
Arm	Inspect arm for overall readiness and functionality.	X	X	Every Use
Base Link	With arm mechanism separated from mount, rotate the base link shaft to confirm that shaft turns without binding.	X		Weekly
Protective Covers	Verify that cloth and plastic covers have no tears or rips and are securely fastened to the arm. Replace as needed. Ensure cloth cover flap does not impede lift knob and shaft.	X	X	Every Use
Springs	Remove cloth and plastic covers and use compressed air to remove debris from springs. Check all springs for rust, dents, nicks and/or deformations. Refasten and secure arm covers when done.	X		Weekly
Tool Holder Receiver	Inspect mating features. If dirty or dusty, clear out any debris and clean with cloth and/or compressed air.	X		Weekly
Lift Knob (Functionality)	Inspect lift knob shaft. If dirty or dusty, clean with cloth and/or compressed air. Apply slide and track grease (such as McMaster-Carr part #1392K31) to shaft as needed.			Semiannually
Lift Knob (Adjustment)	When a tool and tool holder are installed in arm, adjust the lift knob so that arm rests at near horizontal. Verify that tool and arm move freely through a full range of motion; adjust lift as needed.	X	X	When Installing Tool Holder and Tool
Rotation Lock	Inspect slider pin. If dirty or dusty, clean pin with cloth and blow compressed air into side slot to clear out dirt or debris. Pull pin in and out to test for smooth operation.	X	X	Weekly

EksoZeroG Maintenance



EksoZeroG Maintenance					
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Product Component	Maintenance Tasks	Ready to Rent	Customer	Preventive Maintenance	Frequency
Slings and Cinch					
Clamp	Inspect and verify that tool holder post clamp is secured and in desired position. Verify that detents are free of dirt and debris; clean as needed with cloth, compressed air, and/or cotton swabs.	X	X	X	Every Use
All Slings and Cinch	Examine the slings and cinch visually and manually before each use. With the sling/cinch pulled taut, examine both sides of webbing and all stitching for visible damage, discoloration, or deterioration; manually inspect the sling/cinch material with fingers to feel for wear, such as tearing, fraying, unevenness, or loose threads. Examine cinch buckle and verify proper operation. If any damage or deterioration is discovered, discontinue sling/cinch use.	X	X	X	Every Use
Tool Holder Post (Pigtail)	Inspect the pigtail tool holder post; check that the post is free of damage (such as cracks or deformations).	X	X	X	Every Use
Ring Gimbal Optional Tool Holder Accessory					
Clamp	Inspect and verify that tool holder post clamp is secured and in desired position.	X	X	X	Every Use
Rollers and Ball Bearings	Inspect outer gimbal ring rollers and ball bearings. If dirty or dusty, clean with cloth and/or compressed air.	X		X	Weekly
Set Screws	Verify that the gimbal set screws are firmly seated against the tool housing. Tighten if required.	X	X	X	Weekly
Tool Holder Post (Gimbal)	Inspect the tool holder post; check that there are no cracks or deformations and that the post is not bent or deformed.	X	X	X	Every Use

Standard Limited Warranty Against Defects in Materials and Workmanship

Ekso Bionics warrants the EksoZeroG to be free of manufacturing defects in material and workmanship for a period of one year from the original date of purchase. Consumable parts including slings, neoprene sleeves and plastic dust sleeves with a demonstrable defect are covered by this same one year warranty. Damage caused to these consumable parts due to normal wear and tear during the course of normal use is not covered by this warranty. The Standard Limited Warranty does not cover any repairs required as a result of user errors, accidents, misuse, neglect or operation outside of the device's intended use. The Standard Limited Warranty is void if the EksoZeroG is altered in any way or has not been used in accordance with the operator manual. Please review all product documentation for important product care & maintenance requirements.

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