

eksoaerial and eksoscaffold System 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		X	Monthly
Mid-Rail Mounting Hook	Ensure that the up-and-down movement of the mid-rail mounting hook is smooth and unrestricted. Clear out any debris and clean with cloth and/or compressed air.	X		X	Monthly
Arm Receiver	Inspect mating features. If dirty or dusty, clear out any debris and clean with cloth and/or compressed air.	X		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	X	Weekly
zeroG Arm					
Arm	Inspect arm for overall readiness and functionality.	X	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		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	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. Replace covers when done.	X		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		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.			X	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	X	Weekly

Product Component	Maintenance Tasks	Ready to Rent	Customer	Preventive Maintenance	Frequency
Universal Tool Holder					
Clamp	Inspect and verify that tool holder post clamp is secured and in desired position.	X	X	X	Every Use
Ratchet Strap	Inspect ratchet strap to ensure there are no tears.	X	X	X	Every Use
Ratchet Mechanism Operation	Test tool holder ratchet mechanism is working properly by pulling out and retracting ratchet strap. If universal tool holder and/or ratchet mechanism are dirty or dusty, clean with cloth and/or compressed air.	X		X	Weekly
Tool Holder Post	Inspect 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
Swivel	Inspect the swivel between the post and the ratchet mechanism; ensure that the swivel rotates and is not impeded by dirt or debris. If dirty or dusty, clear out any debris and clean with cloth and/or compressed air.	X		X	Monthly
Large Ring Gimbal Tool Holder					
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	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
Slings					
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	Examine the slings visually and manually before each use. With the sling pulled taut, examine both sides of sling webbing and all stitching for visible damage, discoloration, or deterioration; manually inspect the sling material with fingers to feel for wear, such as tearing, fraying, unevenness, or loose threads. If any damage or deterioration is discovered, discontinue sling 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