



Document Title		Electric CE RHGSE Quick-Start Guide			
Document No.	Rev	Document Type	Released	Updated	
Appendix B	Original	Quick Start Guide	15-SEPT-21	29-APR-22	

NOTE: This document is intended to be utilized as a QuickStart Guide and is not a replacement for the ZOM-11300-X Rev D or ZOM-15000-3 Rev D Operation and Maintenance Manuals. Operators should carefully review the detailed contents of the aforementioned documents before proceeding. Reference the O&M Manuals as required for more detailed instruction. Visit our website for training videos.

1.0	Pre-Check	Reference: ZOM-11300-X Rev D – Section 7.0
1.1	Check Electric RHGSE for any signs of significant wear or damage.	
1.2	Confirm Rotatub Clutch static breakaway is 2-3lb. (0.9-1.4) kg.	
1.3	Replace Lubridryer Pads and fill oil reservoir with OEM recommended lubricant.	
1.4	Confirm tub nuts are tight and Tub Plug is installed.	
1.5	Confirm battery life of Load Indicator is sufficient for the ensuing tests.	


2.0	MagSens Setup (Optional)	Reference: ZOM-15000-3 Rev D – Section 9.0
WARNINGS:		
<ul style="list-style-type: none"> The MagSens contains powerful earth magnets. Keep away from magnetically sensitive items. 		
CAUTIONS:		
<ul style="list-style-type: none"> The MagSens Head is a sensitive electronic device and should be handled with care. The MagSens Head is spring loaded and will spring open if allowed to do so. Always maintain positive control of the hinging portion when opening and closing the MagSens head. Failure to do so may cause damage to the MagSens head. 		
2.1	Install MagSens Head to the Upright Bracket using the thumb screws.	
2.2	Inside the pelican case, confirm the “Power” switch on the control station is in the OFF position.	
2.3	Install the electrical cable between the MagSens and the control station.	
2.4	Install AC Power Cable and turn the “Power” switch ON.	
2.5	Open and turn on the MagSens laptop.	

3.0	RHGSE Setup	Reference: ZOM-11300-X Rev D – Section 6.0
WARNINGS:		
<ul style="list-style-type: none"> Always wear appropriate PPE while handling the rescue hoist cable. 		
3.1	Position Electric RHGSE parallel to aircraft with the Lubridryer entry point directly below the rescue hoist cable.	
3.2	Engage the RHGSE Swivel locks and disengage the Caster Wheel Locks to enable to RHGSE to self-align with the rescue hoist.	
3.3	Disengage the Brake Handle and reduce the load setpoint. NOTE: Little to no force should be required to fully engage the Brake Handle.	
3.4	Open the Capstan and Lubridryer covers.	
3.5	If applicable, slowly open the MagSens.	
3.6	Confirm both the Exit Roller and Pressure Roller Tensioning Arms are locked in the open position.	
3.7	Turn on power to the aircraft hoist system.	
3.8	Extend 20 feet of cable from the rescue hoist.	
3.9	Insert cable into the Lubridryer. Close and Latch the Lubridryer.	
3.10	Insert cable into the MagSens. Close and Latch the MagSens.	
3.11	Wrap cable tightly around the Capstans.	
3.12	Engage the Pressure and Exit Rollers and stow the pins in the auxiliary holes.	
3.13	Route cable through the Guide Rollers and down into the Rotatub.	


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3.14	Confirm cable is lying flat on the bottom lip of the Spooler. CAUTION: Improper placement may cause damage to the RHGSE or rescue hoist cable.
3.15	Place hook in groove on top of Spooler with the cable pointing downward or laying horizontally.
3.16	Confirm 3-5 ft. of excess cable is present inside the Rotatub.
3.17	Close and lock both Capstan Covers.
3.18	Turn on the Load Display Indicator.
3.19	If water rinse is necessary, fill the Rotatub with 10 gal. of fresh water and attach a compressed air line to the Lubridryer. NOTE: If possible, submerge the rescue hoist hook in the water.
3.20	Confirm the “Extend Power” switch is OFF and the “E-Stop” Button is depressed.
3.21	Attach the Power Cable to RHGSE Control Box and supply the appropriate AC voltage.

4.0	RHGSE Operations – Extending	Reference: ZOM-11300-X Rev D – Section 6.6
WARNINGS:		
<ul style="list-style-type: none"> While running any RHGSE, always be aware of the cable position and wrapping. Be prepared to stop quickly if necessary. 		
CAUTIONS:		
<ul style="list-style-type: none"> Use Caution while approaching the full out position of the rescue hoist. Ensure the hoist limit switches are functioning properly before the cable is pulled off the drum. If the rescue hoist cable begins to climb to the top of the spooler, the Rotatub Clutch is set too high and needs to be reduced. Remove the rescue hoist cable from the RHGSE and adjust the clutch using the O&M Manual. 		
NOTES:		
<ul style="list-style-type: none"> The Electrical RHGSE safety circuit is coupled to multiple sensors and switches. Power to the Electric motor will be severed by the safety circuit if any of the following occur: <ul style="list-style-type: none"> The “E-Stop” button is depressed. Either of the Capstan Covers are opened. The Brake Handle is actuated away from the “Extend” position. The Electric RHGSE produces approximately 30-50 lbs. of load while extending. The Electric RHGSE can be operated manually using the hand crank. 		
4.1	Actuate the “Extending Power” switch to the ON position. NOTE: The “Extend Armed” Orange Neon Indicator will illuminate.	
4.2	Disengage the “E-Stop” button.	
4.3	Press the “Extend Start” button. NOTE: The “Extending” Green Neon Indicator will illuminate and the RHGSE will begin to generate a load.	
4.4	Operate the rescue hoist in the down/extend/out direction at a steady and moderate speed until the desired test length is achieved, or the full out limit switch is activated. CAUTION: Do not exceed the top speed of the RHGSE or start and stop frequently, doing so may cause improper wrapping and result in damage to the rescue hoist cable.	

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5.0	RHGSE Operations – Retracting	Reference: ZOM-11300-X Rev D – Section 6.7
<p><u>WARNINGS:</u></p> <ul style="list-style-type: none"> • Load set point should never be increased statically. Always begin retracting the rescue hoist prior to positive load adjustments. Static adjustments could cause a stalled brake drum, which could result in the RHGSE lifting off the ground unexpectedly. This could damage the RHGSE, airframe, rescue hoist cable, and/or cause personal injury. • Load set points near 600 lbs. may cause the RHGSE to lift off the ground unexpectedly. This could damage the RHGSE, airframe, rescue hoist cable, and/or cause personal injury. <p><u>CAUTIONS:</u></p> <ul style="list-style-type: none"> • Always be aware of the remaining length of rescue hoist cable inside the Rotatub. Frequently look down to visually inspect the remainder. When there are less than 3 layers left in the Rotatub, slow down to quarter speed. Stop as soon as the bottom lip of the Spooler is visible. • Do not exceed loads of 600 lb. (272 kg.) while retracting. <p><u>NOTES:</u></p> <ul style="list-style-type: none"> • Operate RHGSE at 100 lbs. during water rinse cycles. • It is good practice to reduce the retracting load to 100 lbs. prior to finishing the retracting run. 		
5.1	Turn off power to the Electric RHGSE by actuating the “Extend Power” Switch to the OFF position. NOTE: The “Extending” Green Neon Indicator and the “Extend Armed” Orange Neon Indicator will turn off.	
5.2	Confirm the Manual Crank Handle is disengaged by manually rotating it counter clock-wise.	
5.3	Confirm the Brake Handle is disengaged.	
5.4	Open the Oil Shut Off Valve on the side of the Lubridryer.	
5.5	If applicable, turn on the air pressure to dry the cable during water rinse cycles.	
5.6	Operate the rescue hoist in the up/retract/in direction at a steady and moderate speed. NOTE: 100 ft./min max during water rinse cycles.	
5.7	Engage the Brake Handle.	
5.8	Adjust the retracting load by turning the Load Adjustment Knob clock-wise to increase the load or counter clock-wise to decrease the load. NOTE: 100 lbs. during water rinse cycles.	
5.9	Stop hoisting operations when the bottom lip of the Spooler is visible.	
5.10	Disengage the Brake Handle.	

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6.0	RHGSE Operations – Cable Removal & Clean up	Reference: ZOM-11300-X Rev D – Section 6
WARNINGS:		
<ul style="list-style-type: none"> Take care to ensure the RHGSE does not swing, spin, or fall in a manner that would cause damage to the RHGSE, airframe, rescue hoist or operator during the use of the Hook Checkpoint. Always wear appropriate PPE while handling the rescue hoist cable. 		
CAUTIONS:		
<ul style="list-style-type: none"> The MagSens Head is spring loaded and will spring open if allowed to do so. Always maintain positive control of the hinging portion when opening and closing the MagSens Head. Failure to do so may cause damage the to the MagSens Head. 		
6.1	Engage the “E-Stop” button.	
6.2	Disengage the Brake Handle.	
6.3	Open the Capstan Covers.	
6.4	Disengage the Pressure and Exit Roller Tensioning Arms.	
6.5	Remove the rescue hoist hook and cable from the Rotatub and Guide Wheels. Place the hook horizontally atop the Rotatub.	
6.6	Carefully unwrap the cable from the Upper and Lower Capstan Rollers.	
6.7	Slowly and steadily operate the rescue hoist in the up/retract/in direction until the rescue hoist hook begins to lift from the Rotatub. With a gloved hand, pull the remaining cable through the Lubridryer and MagSens to complete the inspection cycle.	
6.8	If applicable, slowly open the MagSens and remove the cable. Close and latch the MagSens.	
6.9	If applicable, turn OFF the “Power” switch on the control station inside the MagSens Pelican case.	
6.10	If applicable, disconnect and remove the MagSens from the RHGSE. Carefully stow it in the Pelican case.	
6.11	Close the Lubridryer and Capstan Covers.	
6.12	If applicable, move the RHGSE to an appropriate location and drain the water from the Rotatub by removing the yellow tub plug. Use rags to thoroughly remove any water from the RHGSE and rescue hoist hook.	
6.13	Visually inspect the ball end and last few inches of cable for any signs of wear or degradation.	
6.14	Confirm proper hook assembly per OEM and/or institutional instructions.	
6.15	Attach 600 lbs. (272 kg.) Hook Checkpoint to upper upright bracket on RHGSE.	
6.16	Attach rescue hoist hook to the Hook Checkpoint and slowly operate the rescue hoist in the up/retract/in direction until the RHGSE wheels have cleared the ground to apply a 600 lbs. load onto the rescue hoist hook.	
6.17	Carefully and slowly operate the rescue hoist in the down/extend/out direction until the RHGSE is in full contact with the ground.	
6.18	Detach the rescue hoist hook from the RHGSE and operate the rescue hoist in the up/retract/in direction until the hook is homed.	
6.19	Disconnect and store all power cords, cables, and air lines.	
6.20	If applicable, save MagSens data and analyze it.	
6.21	Properly stow all auxiliary items.	
6.22	Return RHGSE and MagSens to their respective storage locations.	